



# Full wwPDB X-ray Structure Validation Report ⓘ

Jan 19, 2017 – 02:52 AM EST

PDB ID : 5TGM  
Title : Crystal structure of the *S.cerevisiae* 80S ribosome in complex with the A-site bound aminoacyl-tRNA analog ACCA-Pro  
Authors : Melnikov, S.; Mailliot, J.; Yusupov, M.  
Deposited on : 2016-09-28  
Resolution : 3.50 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)

A user guide is available at

<http://wwpdb.org/validation/2016/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

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The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467  
Mogul : 1.7.1 (RC1), CSD as537be (2016)  
Xtriage (Phenix) : 1.9-1692  
EDS : rb-20028442  
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)  
Refmac : 5.8.0135  
CCP4 : 6.5.0  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : rb-20028442

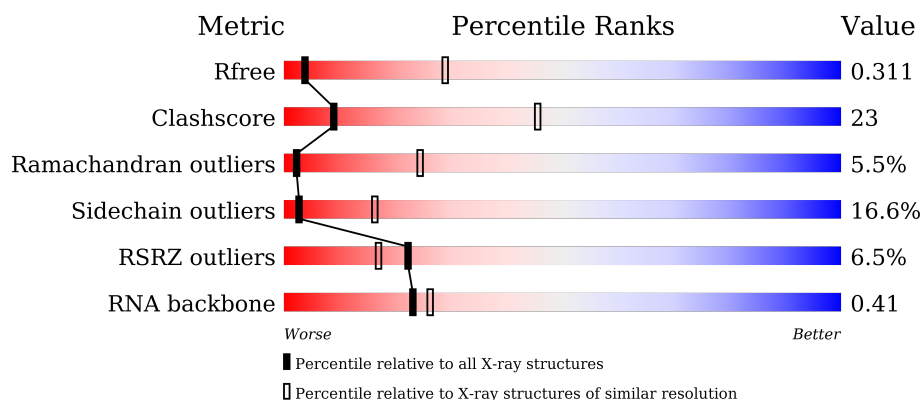
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

## *X-RAY DIFFRACTION*

The reported resolution of this entry is 3.50 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
$R_{free}$	91344	1051 (3.60-3.40)
Clashscore	102246	1157 (3.60-3.40)
Ramachandran outliers	100387	1120 (3.60-3.40)
Sidechain outliers	100360	1121 (3.60-3.40)
RSRZ outliers	91569	1058 (3.60-3.40)
RNA backbone	2183	1050 (4.20-2.80)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions  $\leq 5\%$ . The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	2	1812	<div> <div>7%</div> <div>7% 32% 45% 15%</div> </div>
2	S0	206	<div> <div>25%</div> <div>18% 69% 12%</div> </div>
2	s0	206	<div> <div>9%</div> <div>78% 20%</div> </div>
3	S1	216	<div> <div>5%</div> <div>21% 57% 20%</div> </div>

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Mol	Chain	Length	Quality of chain
3	s1	216	
4	S2	217	
4	s2	217	
5	S3	223	
5	s3	223	
6	S4	260	
6	s4	260	
7	S5	206	
7	s5	206	
8	S6	226	
8	s6	226	
9	S7	186	
9	s7	186	
10	S8	188	
10	s8	188	
11	S9	185	
11	s9	185	
12	C0	96	
13	C1	155	
13	c1	155	
14	C2	124	
14	c2	124	
15	C3	150	
15	c3	150	
16	C4	128	

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Mol	Chain	Length	Quality of chain
16	c4	128	
17	C5	135	
17	c5	135	
18	C6	142	
18	c6	142	
19	C7	120	
20	C8	145	
20	c8	145	
21	C9	143	
21	c9	143	
22	D0	110	
22	d0	110	
23	D1	87	
23	d1	87	
24	D2	129	
24	d2	129	
25	D3	144	
25	d3	144	
26	D4	134	
26	d4	134	
27	D5	70	
27	d5	70	
28	D6	97	
28	d6	97	
29	D7	81	

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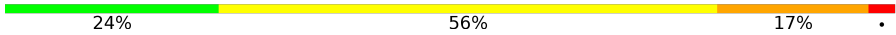

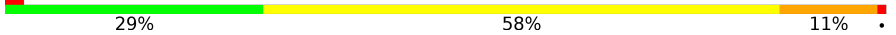
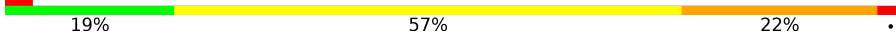

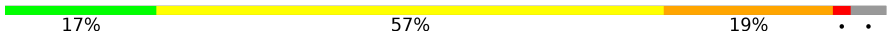

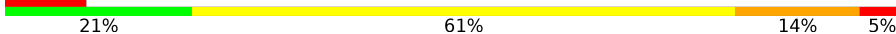

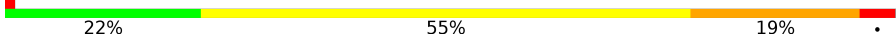

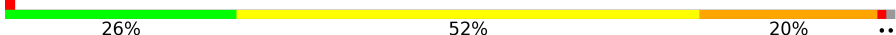

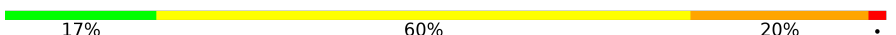



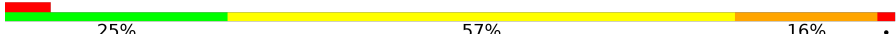

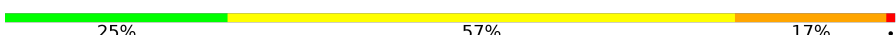






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Mol	Chain	Length	Quality of chain
29	d7	81	
30	D8	63	
30	d8	63	
31	D9	53	
31	d9	53	
32	E0	62	
32	e0	62	
33	E1	76	
33	e1	76	
34	SR	318	
35	SM	159	
36	1	3149	
37	3	121	
37	7	121	
38	4	158	
38	8	158	
39	L2	252	
39	l2	252	
40	L3	386	
40	l3	386	
41	L4	361	
41	l4	361	
42	L5	296	
42	l5	296	
43	L6	175	

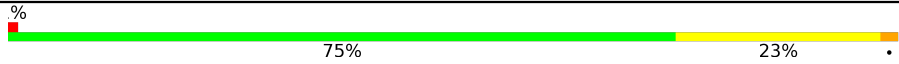
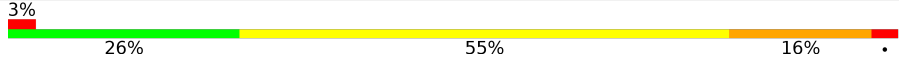
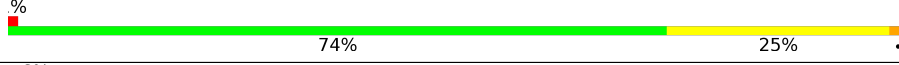
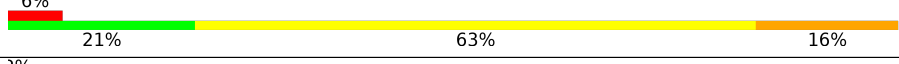
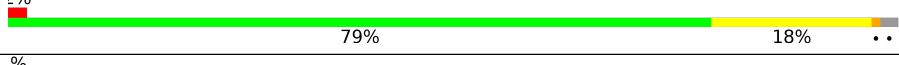
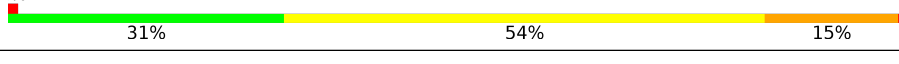
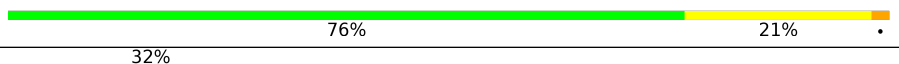
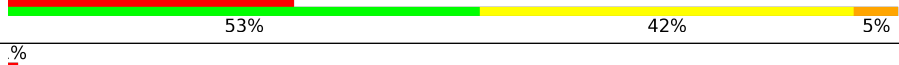
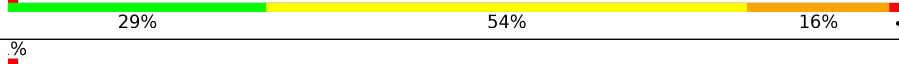

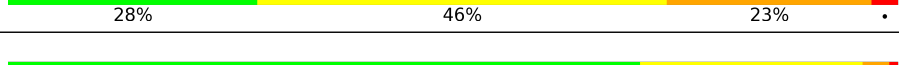
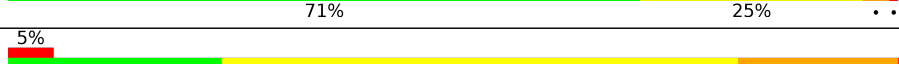

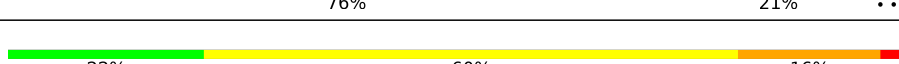
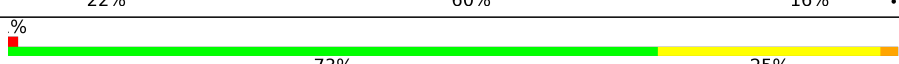
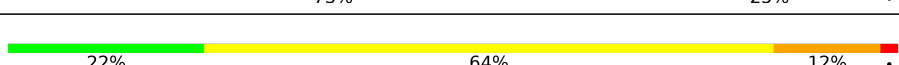
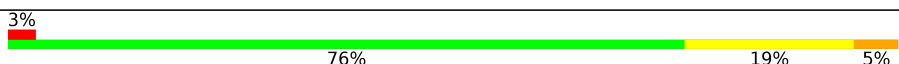
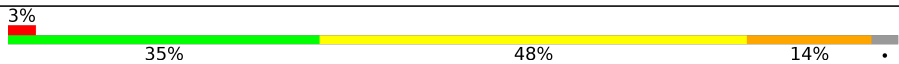
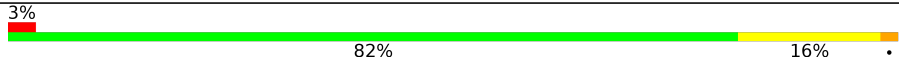


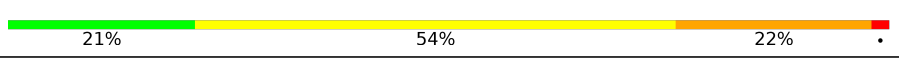
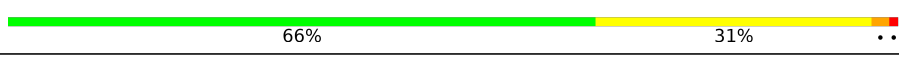
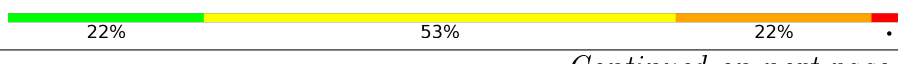

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Mol	Chain	Length	Quality of chain
43	l6	175	
44	L7	223	
44	l7	223	
45	L8	233	
46	L9	191	
46	l9	191	
47	M0	220	
47	m0	220	
48	M1	169	
48	m1	169	
49	M3	194	
49	m3	194	
50	M4	137	
50	m4	137	
51	M5	203	
51	m5	203	
52	M6	197	
52	m6	197	
53	M7	183	
53	m7	183	
54	M8	185	
54	m8	185	
55	M9	188	
55	m9	188	
56	N0	172	




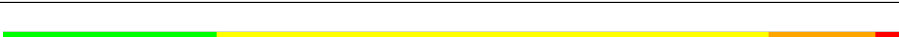
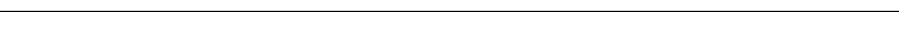
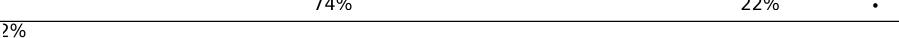
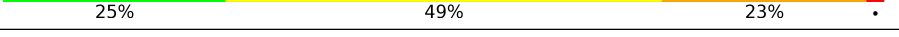

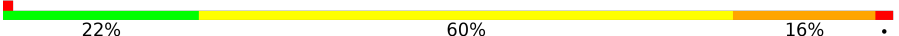


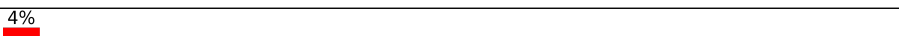

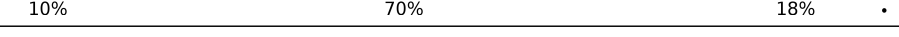

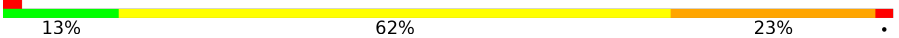

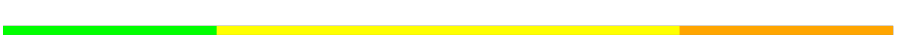

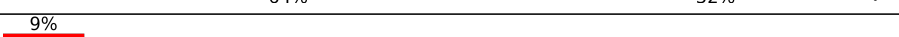
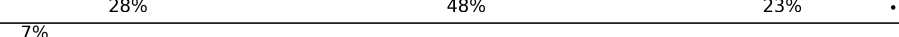

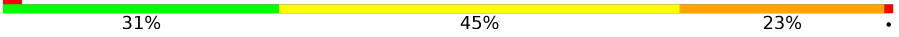


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Mol	Chain	Length	Quality of chain
56	n0	172	
57	N1	159	
57	n1	159	
58	N2	100	
58	n2	100	
59	N3	136	
59	n3	136	
60	N4	98	
61	N5	121	
61	n5	121	
62	N6	126	
62	n6	126	
63	N7	135	
63	n7	135	
64	N8	148	
64	n8	148	
65	N9	58	
65	n9	58	
66	O0	100	
66	o0	100	
67	O1	109	
67	o1	109	
68	O2	127	
68	o2	127	
69	O3	106	

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Mol	Chain	Length	Quality of chain
69	o3	106	
70	O4	112	
70	o4	112	
71	O5	119	
71	o5	119	
72	O6	99	
72	o6	99	
73	O7	87	
73	o7	87	
74	O8	77	
74	o8	77	
75	O9	50	
75	o9	50	
76	Q0	52	
76	q0	52	
77	Q1	25	
77	q1	25	
78	Q2	105	
78	q2	105	
79	Q3	91	
79	q3	91	
80	6	1800	
81	c0	96	
82	c7	121	
83	sR	318	

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Mol	Chain	Length	Quality of chain
84	sM	104	
85	5	3150	
86	l8	231	
87	m2	150	
88	n4	135	
89	p0	143	
90	p1	47	
90	p2	47	
91	P	5	
91	p	5	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
92	OHX	1	3494	-	-	X	-
92	OHX	1	3507	-	-	X	-
92	OHX	1	3508	-	-	-	X
92	OHX	1	3511	-	-	X	-
92	OHX	1	3525	-	-	X	X
92	OHX	1	3537	-	-	-	X
92	OHX	1	3538	-	-	-	X
92	OHX	1	3560	-	-	-	X
92	OHX	1	3563	-	-	X	-
92	OHX	1	3565	-	-	X	-
92	OHX	1	3569	-	-	-	X
92	OHX	1	3576	-	-	X	X
92	OHX	1	3578	-	-	X	-
92	OHX	1	3579	-	-	-	X
92	OHX	1	3583	-	-	X	-
92	OHX	1	3585	-	-	X	-
92	OHX	1	3589	-	-	X	-
92	OHX	1	3590	-	-	X	X
92	OHX	1	3594	-	-	-	X
92	OHX	1	3597	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
92	OHX	1	3599	-	-	-	X
92	OHX	1	3600	-	-	X	-
92	OHX	1	3603	-	-	-	X
92	OHX	1	3605	-	-	-	X
92	OHX	1	3607	-	-	-	X
92	OHX	1	3612	-	-	X	-
92	OHX	1	3614	-	-	-	X
92	OHX	1	3616	-	-	X	-
92	OHX	1	3620	-	-	-	X
92	OHX	1	3621	-	-	-	X
92	OHX	1	3626	-	-	-	X
92	OHX	1	3629	-	-	-	X
92	OHX	1	3642	-	-	-	X
92	OHX	1	3643	-	-	-	X
92	OHX	1	3645	-	-	-	X
92	OHX	1	3646	-	-	-	X
92	OHX	1	3648	-	-	X	X
92	OHX	1	3649	-	-	-	X
92	OHX	1	3653	-	-	-	X
92	OHX	1	3654	-	-	-	X
92	OHX	1	3655	-	-	-	X
92	OHX	1	3660	-	-	-	X
92	OHX	1	3662	-	-	X	X
92	OHX	1	3663	-	-	-	X
92	OHX	1	3665	-	-	-	X
92	OHX	1	3667	-	-	-	X
92	OHX	1	3670	-	-	-	X
92	OHX	1	3671	-	-	-	X
92	OHX	1	3674	-	-	-	X
92	OHX	1	3675	-	-	-	X
92	OHX	1	3678	-	-	-	X
92	OHX	1	3684	-	-	X	X
92	OHX	1	3685	-	-	-	X
92	OHX	1	3687	-	-	-	X
92	OHX	1	3688	-	-	-	X
92	OHX	1	3690	-	-	X	-
92	OHX	1	3691	-	-	X	-
92	OHX	1	3693	-	-	-	X
92	OHX	1	3694	-	-	X	-
92	OHX	1	3699	-	-	-	X
92	OHX	1	3702	-	-	X	X
92	OHX	1	3703	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
92	OHX	1	3710	-	-	X	X
92	OHX	1	3711	-	-	X	-
92	OHX	1	3712	-	-	-	X
92	OHX	1	3714	-	-	-	X
92	OHX	1	3718	-	-	-	X
92	OHX	1	3721	-	-	-	X
92	OHX	1	3726	-	-	-	X
92	OHX	1	3727	-	-	-	X
92	OHX	1	3728	-	-	-	X
92	OHX	1	3729	-	-	-	X
92	OHX	2	1914	-	-	X	-
92	OHX	2	1921	-	-	X	-
92	OHX	2	1970	-	-	X	-
92	OHX	2	1976	-	-	-	X
92	OHX	2	1979	-	-	-	X
92	OHX	2	1985	-	-	X	-
92	OHX	2	1995	-	-	-	X
92	OHX	2	2021	-	-	-	X
92	OHX	2	2025	-	-	-	X
92	OHX	2	2029	-	-	-	X
92	OHX	2	2031	-	-	-	X
92	OHX	2	2040	-	-	X	-
92	OHX	2	2043	-	-	-	X
92	OHX	2	2047	-	-	-	X
92	OHX	2	2049	-	-	-	X
92	OHX	3	204	-	-	X	-
92	OHX	3	208	-	-	-	X
92	OHX	4	212	-	-	-	X
92	OHX	4	215	-	-	-	X
92	OHX	4	218	-	-	-	X
92	OHX	5	3481	-	-	X	-
92	OHX	5	3503	-	-	X	-
92	OHX	5	3506	-	-	X	-
92	OHX	5	3522	-	-	X	-
92	OHX	5	3524	-	-	X	-
92	OHX	5	3527	-	-	-	X
92	OHX	5	3531	-	-	-	X
92	OHX	5	3534	-	-	X	-
92	OHX	5	3549	-	-	-	X
92	OHX	5	3551	-	-	-	X
92	OHX	5	3554	-	-	-	X
92	OHX	5	3555	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
92	OHX	5	3565	-	-	X	X
92	OHX	5	3566	-	-	X	-
92	OHX	5	3570	-	-	-	X
92	OHX	5	3573	-	-	-	X
92	OHX	5	3574	-	-	X	-
92	OHX	5	3576	-	-	X	X
92	OHX	5	3578	-	-	-	X
92	OHX	5	3580	-	-	X	X
92	OHX	5	3582	-	-	-	X
92	OHX	5	3590	-	-	-	X
92	OHX	5	3591	-	-	X	X
92	OHX	5	3597	-	-	-	X
92	OHX	5	3598	-	-	-	X
92	OHX	5	3599	-	-	-	X
92	OHX	5	3601	-	-	-	X
92	OHX	5	3602	-	-	-	X
92	OHX	5	3606	-	-	-	X
92	OHX	5	3607	-	-	-	X
92	OHX	5	3609	-	-	-	X
92	OHX	5	3611	-	-	-	X
92	OHX	5	3617	-	-	-	X
92	OHX	5	3623	-	-	-	X
92	OHX	5	3624	-	-	-	X
92	OHX	5	3630	-	-	-	X
92	OHX	5	3632	-	-	-	X
92	OHX	5	3634	-	-	X	X
92	OHX	5	3636	-	-	-	X
92	OHX	5	3638	-	-	-	X
92	OHX	5	3640	-	-	X	-
92	OHX	5	3641	-	-	-	X
92	OHX	5	3643	-	-	-	X
92	OHX	5	3644	-	-	-	X
92	OHX	5	3645	-	-	-	X
92	OHX	5	3647	-	-	-	X
92	OHX	5	3648	-	-	-	X
92	OHX	5	3652	-	-	-	X
92	OHX	5	3658	-	-	-	X
92	OHX	5	3659	-	-	-	X
92	OHX	5	3660	-	-	-	X
92	OHX	5	3661	-	-	-	X
92	OHX	5	3662	-	-	-	X
92	OHX	5	3664	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
92	OHX	5	3670	-	-	-	X
92	OHX	5	3671	-	-	X	X
92	OHX	5	3681	-	-	-	X
92	OHX	5	3684	-	-	-	X
92	OHX	5	3687	-	-	-	X
92	OHX	5	3688	-	-	-	X
92	OHX	5	3689	-	-	-	X
92	OHX	5	3692	-	-	X	-
92	OHX	5	3693	-	-	-	X
92	OHX	5	3694	-	-	X	X
92	OHX	5	3695	-	-	-	X
92	OHX	5	3698	-	-	-	X
92	OHX	5	3700	-	-	-	X
92	OHX	5	3702	-	-	X	-
92	OHX	5	3703	-	-	X	-
92	OHX	5	3705	-	-	-	X
92	OHX	5	3706	-	-	X	X
92	OHX	5	3707	-	-	-	X
92	OHX	5	3709	-	-	-	X
92	OHX	5	3716	-	-	-	X
92	OHX	5	3718	-	-	-	X
92	OHX	5	3720	-	-	-	X
92	OHX	5	3721	-	-	X	X
92	OHX	5	3724	-	-	X	X
92	OHX	5	3729	-	-	-	X
92	OHX	5	3737	-	-	-	X
92	OHX	5	3739	-	-	-	X
92	OHX	5	3740	-	-	-	X
92	OHX	6	1914	-	-	X	-
92	OHX	6	1938	-	-	X	-
92	OHX	6	1970	-	-	-	X
92	OHX	6	1978	-	-	X	-
92	OHX	6	1990	-	-	-	X
92	OHX	6	1992	-	-	-	X
92	OHX	6	1998	-	-	X	-
92	OHX	6	2001	-	-	X	-
92	OHX	6	2009	-	-	-	X
92	OHX	6	2012	-	-	-	X
92	OHX	6	2023	-	-	-	X
92	OHX	6	2024	-	-	-	X
92	OHX	6	2026	-	-	-	X
92	OHX	6	2029	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
92	OHX	6	2032	-	-	-	X
92	OHX	6	2033	-	-	-	X
92	OHX	6	2035	-	-	-	X
92	OHX	6	2037	-	-	-	X
92	OHX	6	2042	-	-	-	X
92	OHX	6	2048	-	-	X	-
92	OHX	6	2051	-	-	-	X
92	OHX	6	2054	-	-	-	X
92	OHX	6	2057	-	-	-	X
92	OHX	6	2058	-	-	X	X
92	OHX	7	209	-	-	X	X
92	OHX	7	211	-	-	-	X
92	OHX	8	210	-	-	-	X
92	OHX	8	211	-	-	-	X
92	OHX	8	212	-	-	-	X
92	OHX	8	213	-	-	-	X
92	OHX	8	214	-	-	-	X
92	OHX	C3	201	-	-	X	-
92	OHX	C5	201	-	-	X	-
92	OHX	O4	201	-	-	-	X
92	OHX	O7	102	-	-	X	-
92	OHX	Q2	502	-	-	X	-
92	OHX	S9	201	-	-	X	X
92	OHX	l3	402	-	-	-	X
92	OHX	m0	303	-	-	-	X
93	MG	1	3737	-	-	-	X
93	MG	1	3739	-	-	-	X
93	MG	1	3741	-	-	-	X
93	MG	1	3745	-	-	-	X
93	MG	1	3763	-	-	-	X
93	MG	1	3767	-	-	-	X
93	MG	1	3784	-	-	-	X
93	MG	1	3786	-	-	-	X
93	MG	1	3790	-	-	-	X
93	MG	1	3800	-	-	-	X
93	MG	1	3801	-	-	-	X
93	MG	1	3807	-	-	-	X
93	MG	1	3809	-	-	-	X
93	MG	1	3812	-	-	-	X
93	MG	1	3814	-	-	-	X
93	MG	1	3816	-	-	-	X
93	MG	1	3820	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
93	MG	1	3822	-	-	-	X
93	MG	1	3824	-	-	-	X
93	MG	1	3825	-	-	-	X
93	MG	1	3826	-	-	-	X
93	MG	1	3831	-	-	-	X
93	MG	1	3832	-	-	-	X
93	MG	1	3835	-	-	-	X
93	MG	1	3836	-	-	-	X
93	MG	1	3840	-	-	-	X
93	MG	1	3841	-	-	-	X
93	MG	1	3844	-	-	-	X
93	MG	1	3845	-	-	-	X
93	MG	1	3851	-	-	-	X
93	MG	1	3852	-	-	-	X
93	MG	1	3853	-	-	-	X
93	MG	1	3859	-	-	-	X
93	MG	1	3864	-	-	-	X
93	MG	1	3867	-	-	-	X
93	MG	1	3868	-	-	-	X
93	MG	1	3875	-	-	-	X
93	MG	1	3876	-	-	-	X
93	MG	1	3877	-	-	-	X
93	MG	1	3882	-	-	-	X
93	MG	1	3883	-	-	-	X
93	MG	1	3889	-	-	-	X
93	MG	1	3892	-	-	-	X
93	MG	1	3894	-	-	-	X
93	MG	1	3896	-	-	-	X
93	MG	1	3897	-	-	-	X
93	MG	1	3898	-	-	-	X
93	MG	1	3899	-	-	-	X
93	MG	1	3904	-	-	-	X
93	MG	1	3907	-	-	-	X
93	MG	1	3909	-	-	-	X
93	MG	1	3911	-	-	-	X
93	MG	1	3912	-	-	-	X
93	MG	1	3914	-	-	-	X
93	MG	1	3916	-	-	-	X
93	MG	1	3918	-	-	-	X
93	MG	1	3919	-	-	-	X
93	MG	1	3921	-	-	-	X
93	MG	1	3922	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
93	MG	1	3923	-	-	-	X
93	MG	1	3925	-	-	-	X
93	MG	1	3932	-	-	-	X
93	MG	1	3937	-	-	-	X
93	MG	1	3944	-	-	-	X
93	MG	1	3949	-	-	-	X
93	MG	1	3952	-	-	-	X
93	MG	1	3966	-	-	-	X
93	MG	1	3969	-	-	-	X
93	MG	1	3971	-	-	-	X
93	MG	1	3977	-	-	-	X
93	MG	1	3983	-	-	-	X
93	MG	1	3984	-	-	-	X
93	MG	1	3989	-	-	-	X
93	MG	1	4002	-	-	-	X
93	MG	1	4014	-	-	-	X
93	MG	1	4027	-	-	-	X
93	MG	1	4030	-	-	-	X
93	MG	1	4033	-	-	-	X
93	MG	1	4034	-	-	-	X
93	MG	1	4036	-	-	-	X
93	MG	1	4045	-	-	-	X
93	MG	1	4052	-	-	-	X
93	MG	1	4055	-	-	-	X
93	MG	1	4056	-	-	-	X
93	MG	1	4071	-	-	-	X
93	MG	1	4072	-	-	-	X
93	MG	1	4073	-	-	-	X
93	MG	1	4074	-	-	-	X
93	MG	1	4077	-	-	-	X
93	MG	1	4082	-	-	-	X
93	MG	1	4088	-	-	-	X
93	MG	1	4091	-	-	-	X
93	MG	1	4093	-	-	-	X
93	MG	1	4097	-	-	-	X
93	MG	1	4098	-	-	-	X
93	MG	1	4099	-	-	-	X
93	MG	1	4100	-	-	-	X
93	MG	1	4102	-	-	-	X
93	MG	1	4104	-	-	-	X
93	MG	1	4107	-	-	-	X
93	MG	1	4108	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
93	MG	1	4123	-	-	-	X
93	MG	2	2060	-	-	-	X
93	MG	2	2061	-	-	-	X
93	MG	2	2062	-	-	-	X
93	MG	2	2065	-	-	-	X
93	MG	2	2069	-	-	-	X
93	MG	2	2071	-	-	-	X
93	MG	2	2076	-	-	-	X
93	MG	2	2080	-	-	-	X
93	MG	2	2087	-	-	-	X
93	MG	2	2089	-	-	-	X
93	MG	2	2095	-	-	-	X
93	MG	2	2099	-	-	-	X
93	MG	2	2109	-	-	-	X
93	MG	2	2110	-	-	-	X
93	MG	2	2115	-	-	-	X
93	MG	2	2123	-	-	-	X
93	MG	2	2126	-	-	-	X
93	MG	2	2131	-	-	-	X
93	MG	2	2141	-	-	-	X
93	MG	4	227	-	-	-	X
93	MG	4	228	-	-	-	X
93	MG	4	233	-	-	-	X
93	MG	5	3752	-	-	-	X
93	MG	5	3753	-	-	-	X
93	MG	5	3754	-	-	-	X
93	MG	5	3755	-	-	-	X
93	MG	5	3759	-	-	-	X
93	MG	5	3766	-	-	-	X
93	MG	5	3768	-	-	-	X
93	MG	5	3773	-	-	-	X
93	MG	5	3775	-	-	-	X
93	MG	5	3780	-	-	-	X
93	MG	5	3785	-	-	-	X
93	MG	5	3789	-	-	-	X
93	MG	5	3793	-	-	-	X
93	MG	5	3801	-	-	-	X
93	MG	5	3804	-	-	-	X
93	MG	5	3811	-	-	-	X
93	MG	5	3813	-	-	-	X
93	MG	5	3820	-	-	-	X
93	MG	5	3837	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
93	MG	5	3840	-	-	-	X
93	MG	5	3844	-	-	-	X
93	MG	5	3847	-	-	-	X
93	MG	5	3851	-	-	-	X
93	MG	5	3853	-	-	-	X
93	MG	5	3854	-	-	-	X
93	MG	5	3858	-	-	-	X
93	MG	5	3859	-	-	-	X
93	MG	5	3865	-	-	-	X
93	MG	5	3867	-	-	-	X
93	MG	5	3868	-	-	-	X
93	MG	5	3869	-	-	-	X
93	MG	5	3871	-	-	-	X
93	MG	5	3874	-	-	-	X
93	MG	5	3885	-	-	-	X
93	MG	5	3890	-	-	-	X
93	MG	5	3892	-	-	-	X
93	MG	5	3893	-	-	-	X
93	MG	5	3894	-	-	-	X
93	MG	5	3895	-	-	-	X
93	MG	5	3897	-	-	-	X
93	MG	5	3898	-	-	-	X
93	MG	5	3901	-	-	-	X
93	MG	5	3903	-	-	-	X
93	MG	5	3906	-	-	-	X
93	MG	5	3908	-	-	-	X
93	MG	5	3911	-	-	-	X
93	MG	5	3912	-	-	-	X
93	MG	5	3913	-	-	-	X
93	MG	5	3916	-	-	-	X
93	MG	5	3917	-	-	-	X
93	MG	5	3918	-	-	-	X
93	MG	5	3925	-	-	-	X
93	MG	5	3928	-	-	-	X
93	MG	5	3929	-	-	-	X
93	MG	5	3930	-	-	-	X
93	MG	5	3932	-	-	-	X
93	MG	5	3933	-	-	-	X
93	MG	5	3934	-	-	-	X
93	MG	5	3937	-	-	-	X
93	MG	5	3941	-	-	-	X
93	MG	5	3942	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
93	MG	5	3944	-	-	-	X
93	MG	5	3945	-	-	-	X
93	MG	5	3961	-	-	-	X
93	MG	5	3962	-	-	-	X
93	MG	5	3974	-	-	-	X
93	MG	5	3983	-	-	-	X
93	MG	5	3990	-	-	-	X
93	MG	5	4005	-	-	-	X
93	MG	5	4013	-	-	-	X
93	MG	5	4022	-	-	-	X
93	MG	5	4023	-	-	-	X
93	MG	5	4025	-	-	-	X
93	MG	5	4030	-	-	-	X
93	MG	5	4034	-	-	-	X
93	MG	5	4053	-	-	-	X
93	MG	5	4054	-	-	-	X
93	MG	5	4069	-	-	-	X
93	MG	5	4070	-	-	-	X
93	MG	5	4071	-	-	-	X
93	MG	5	4078	-	-	-	X
93	MG	5	4079	-	-	-	X
93	MG	5	4082	-	-	-	X
93	MG	5	4094	-	-	-	X
93	MG	5	4098	-	-	-	X
93	MG	5	4100	-	-	-	X
93	MG	5	4110	-	-	-	X
93	MG	5	4112	-	-	-	X
93	MG	5	4113	-	-	-	X
93	MG	5	4115	-	-	-	X
93	MG	5	4119	-	-	-	X
93	MG	5	4140	-	-	-	X
93	MG	5	4145	-	-	-	X
93	MG	5	4159	-	-	-	X
93	MG	5	4168	-	-	-	X
93	MG	5	4169	-	-	-	X
93	MG	5	4170	-	-	-	X
93	MG	5	4174	-	-	-	X
93	MG	6	2064	-	-	-	X
93	MG	6	2068	-	-	-	X
93	MG	6	2069	-	-	-	X
93	MG	6	2071	-	-	-	X
93	MG	6	2074	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
93	MG	6	2079	-	-	-	X
93	MG	6	2080	-	-	-	X
93	MG	6	2083	-	-	-	X
93	MG	6	2084	-	-	-	X
93	MG	6	2090	-	-	-	X
93	MG	6	2100	-	-	-	X
93	MG	6	2105	-	-	-	X
93	MG	6	2107	-	-	-	X
93	MG	6	2109	-	-	-	X
93	MG	6	2113	-	-	-	X
93	MG	6	2118	-	-	-	X
93	MG	6	2126	-	-	-	X
93	MG	6	2128	-	-	-	X
93	MG	6	2131	-	-	-	X
93	MG	6	2134	-	-	-	X
93	MG	6	2139	-	-	-	X
93	MG	6	2170	-	-	-	X
93	MG	6	2171	-	-	-	X
93	MG	6	2175	-	-	-	X
93	MG	7	221	-	-	-	X
93	MG	7	222	-	-	-	X
93	MG	7	223	-	-	-	X
93	MG	8	217	-	-	-	X
93	MG	8	218	-	-	-	X
93	MG	C1	201	-	-	-	X
93	MG	C9	201	-	-	-	X
93	MG	L3	403	-	-	-	X
93	MG	L3	405	-	-	-	X
93	MG	L4	405	-	-	-	X
93	MG	L4	406	-	-	-	X
93	MG	L7	302	-	-	-	X
93	MG	M7	202	-	-	-	X
93	MG	M7	204	-	-	-	X
93	MG	M7	205	-	-	-	X
93	MG	M7	206	-	-	-	X
93	MG	N0	201	-	-	-	X
93	MG	N3	201	-	-	-	X
93	MG	N3	203	-	-	-	X
93	MG	N5	201	-	-	-	X
93	MG	N6	201	-	-	-	X
93	MG	N8	203	-	-	-	X
93	MG	O5	201	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
93	MG	O7	105	-	-	-	X
93	MG	P	102	-	-	-	X
93	MG	c6	201	-	-	-	X
93	MG	d3	201	-	-	-	X
93	MG	d6	102	-	-	-	X
93	MG	l2	303	-	-	-	X
93	MG	l3	405	-	-	-	X
93	MG	l3	406	-	-	-	X
93	MG	l7	301	-	-	-	X
93	MG	m5	303	-	-	-	X
93	MG	m7	201	-	-	-	X
93	MG	n0	202	-	-	-	X
93	MG	n3	201	-	-	-	X
93	MG	n8	203	-	-	-	X
93	MG	o3	203	-	-	-	X
93	MG	s6	301	-	-	-	X
93	MG	sM	202	-	-	-	X
94	ZN	D9	101	-	-	X	-
94	ZN	Q2	501	-	-	X	-
95	PHE	5	3401	-	-	-	X
96	LEU	5	3402	-	-	-	X
97	SPS	1	3403	-	-	X	-
98	8AN	P	101	-	-	X	X

## 2 Entry composition

There are 98 unique types of molecules in this entry. The entry contains 411589 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a RNA chain called 18S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	2	1781	Total	C	N	O	P	0	1	0
			37970	16975	6720	12493	1782			

- Molecule 2 is a protein called 40S ribosomal protein S0-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	S0	206	Total	C	N	O	S	0	0	0
			1577	1014	278	283	2			
2	s0	206	Total	C	N	O	S	0	0	0
			1583	1017	281	283	2			

- Molecule 3 is a protein called 40S ribosomal protein S1-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	S1	214	Total	C	N	O	S	0	0	0
			1709	1084	310	311	4			
3	s1	216	Total	C	N	O	S	0	0	0
			1722	1091	312	315	4			

- Molecule 4 is a protein called 40S ribosomal protein S2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	S2	217	Total	C	N	O	S	0	0	0
			1635	1047	289	297	2			
4	s2	217	Total	C	N	O	S	0	0	0
			1635	1047	289	297	2			

- Molecule 5 is a protein called 40S ribosomal protein S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	S3	223	Total	C	N	O	S	0	0	0
			1734	1101	313	314	6			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	s3	223	Total	C	N	O	S	0	0	0
			1734	1101	313	314	6			

- Molecule 6 is a protein called 40S ribosomal protein S4-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	S4	260	Total	C	N	O	S	0	0	0
			2068	1316	389	360	3			
6	s4	260	Total	C	N	O	S	0	0	0
			2068	1316	389	360	3			

- Molecule 7 is a protein called 40S ribosomal protein S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	S5	206	Total	C	N	O	S	0	0	0
			1609	1007	300	299	3			
7	s5	206	Total	C	N	O	S	0	0	0
			1609	1007	300	299	3			

- Molecule 8 is a protein called 40S ribosomal protein S6-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	S6	226	Total	C	N	O	S	0	0	0
			1799	1129	346	321	3			
8	s6	218	Total	C	N	O	S	0	0	0
			1755	1102	337	313	3			

- Molecule 9 is a protein called 40S ribosomal protein S7-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
9	S7	184	Total	C	N	O	0	0	0
			1481	951	265	265			
9	s7	186	Total	C	N	O	0	0	0
			1491	957	267	267			

- Molecule 10 is a protein called 40S ribosomal protein S8.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
10	S8	188	Total	C	N	O	0	0	0
			1489	925	298	264			
10	s8	188	Total	C	N	O	0	0	0
			1489	925	298	264			

- Molecule 11 is a protein called 40S ribosomal protein S9-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	S9	185	Total	C	N	O	S	0	0	0
			1494	943	289	261	1			
11	s9	185	Total	C	N	O	S	0	0	0
			1494	943	289	261	1			

- Molecule 12 is a protein called 40S ribosomal protein S10-A,40S Ribosomal Protein S10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	C0	96	Total	C	N	O	S	0	0	0
			773	500	126	145	2			

- Molecule 13 is a protein called 40S ribosomal protein S11-A,40S Ribosomal Protein S11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	C1	155	Total	C	N	O	S	0	0	0
			1214	775	230	206	3			
13	c1	146	Total	C	N	O	S	0	0	0
			1168	747	221	197	3			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C1	147	ALA	GLY	conflict	UNP P0CX47
c1	147	ALA	GLY	conflict	UNP P0CX47

- Molecule 14 is a protein called 40S Ribosomal Protein S12,40S ribosomal protein S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	C2	124	Total	C	N	O	S	0	0	0
			890	560	156	172	2			
14	c2	124	Total	C	N	O	S	0	0	0
			890	560	156	172	2			

- Molecule 15 is a protein called 40S ribosomal protein S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	C3	150	Total	C	N	O	S	0	0	0
			1192	759	224	207	2			
15	c3	150	Total	C	N	O	S	0	0	0
			1192	759	224	207	2			

- Molecule 16 is a protein called 40S ribosomal protein S14-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	C4	127	Total	C	N	O	S	0	0	0
			891	545	182	163	1			
16	c4	128	Total	C	N	O	S	0	0	0
			949	582	188	176	3			

There are 22 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C4	127	ARG	-	expression tag	UNP P06367
C4	128	LYS	-	expression tag	UNP P06367
C4	129	LYS	-	expression tag	UNP P06367
C4	130	GLY	-	expression tag	UNP P06367
C4	131	GLY	-	expression tag	UNP P06367
C4	132	ARG	-	expression tag	UNP P06367
C4	133	ARG	-	expression tag	UNP P06367
C4	134	GLY	-	expression tag	UNP P06367
C4	135	ARG	-	expression tag	UNP P06367
C4	136	ARG	-	expression tag	UNP P06367
C4	137	LEU	-	expression tag	UNP P06367
c4	127	ARG	-	expression tag	UNP P06367
c4	128	LYS	-	expression tag	UNP P06367
c4	129	LYS	-	expression tag	UNP P06367
c4	130	GLY	-	expression tag	UNP P06367
c4	131	GLY	-	expression tag	UNP P06367
c4	132	ARG	-	expression tag	UNP P06367
c4	133	ARG	-	expression tag	UNP P06367
c4	134	GLY	-	expression tag	UNP P06367
c4	135	ARG	-	expression tag	UNP P06367
c4	136	ARG	-	expression tag	UNP P06367
c4	137	LEU	-	expression tag	UNP P06367

- Molecule 17 is a protein called 40S Ribosomal Protein S15,40S ribosomal protein S15,40S Ribosomal Protein S15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	C5	124	Total	C	N	O	S	0	0	0
			977	622	182	166	7			
17	c5	135	Total	C	N	O	S	0	0	0
			1039	658	196	178	7			

- Molecule 18 is a protein called 40S ribosomal protein S16-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
18	C6	141	Total	C	N	O	0	0	0
			1105	708	203	194			
18	c6	142	Total	C	N	O	0	0	0
			1111	711	204	196			

- Molecule 19 is a protein called ES17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	C7	120	Total	C	N	O	S	0	0	0
			926	577	177	170	2			

- Molecule 20 is a protein called 40S ribosomal protein S18-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	C8	145	Total	C	N	O	S	0	0	0
			1192	743	237	210	2			
20	c8	145	Total	C	N	O	S	0	0	0
			1192	743	237	210	2			

- Molecule 21 is a protein called 40S ribosomal protein S19-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
21	C9	143	Total	C	N	O	S	0	0	0
			1112	694	208	208	2			
21	c9	143	Total	C	N	O	S	0	0	0
			1112	694	208	208	2			

- Molecule 22 is a protein called 40S ribosomal protein S20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	D0	107	Total	C	N	O	S	0	0	0
			855	539	156	159	1			
22	d0	110	Total	C	N	O	S	0	0	0
			882	554	161	166	1			

- Molecule 23 is a protein called 40S ribosomal protein S21-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	D1	87	Total	C	N	O	S	0	0	0
			684	420	125	137	2			
23	d1	87	Total	C	N	O	S	0	0	0
			684	420	125	137	2			

- Molecule 24 is a protein called 40S ribosomal protein S22-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	D2	129	Total	C	N	O	S	0	0	0
			1021	650	188	180	3			
24	d2	129	Total	C	N	O	S	0	0	0
			1021	650	188	180	3			

- Molecule 25 is a protein called 40S ribosomal protein S23-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	D3	144	Total	C	N	O	S	0	0	0
			1121	708	220	191	2			
25	d3	144	Total	C	N	O	S	0	0	0
			1121	708	220	191	2			

- Molecule 26 is a protein called 40S ribosomal protein S24-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
26	D4	134	Total	C	N	O	0	0	0
			1073	676	208	189			
26	d4	134	Total	C	N	O	0	0	0
			1073	676	208	189			

- Molecule 27 is a protein called 40S ribosomal protein S25-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
27	D5	70	Total	C	N	O	0	0	0
			563	360	104	99			
27	d5	69	Total	C	N	O	0	0	0
			558	357	103	98			

- Molecule 28 is a protein called 40S ribosomal protein S26-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	D6	97	Total	C	N	O	S	0	0	0
			769	475	160	129	5			
28	d6	97	Total	C	N	O	S	0	0	0
			769	475	160	129	5			

- Molecule 29 is a protein called 40S ribosomal protein S27-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	D7	81	Total	C	N	O	S	0	0	0
			610	382	110	113	5			
29	d7	81	Total	C	N	O	S	0	0	0
			610	382	110	113	5			

- Molecule 30 is a protein called 40S ribosomal protein S28-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	D8	63	Total	C	N	O	S	0	0	0
			497	306	99	91	1			
30	d8	63	Total	C	N	O	S	0	0	0
			497	306	99	91	1			

- Molecule 31 is a protein called 40S ribosomal protein S29-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	D9	53	Total	C	N	O	S	0	0	0
			442	274	92	72	4			
31	d9	53	Total	C	N	O	S	0	0	0
			442	274	92	72	4			

- Molecule 32 is a protein called 40S ribosomal protein S30-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	E0	60	Total	C	N	O	S	0	0	0
			475	299	98	77	1			
32	e0	62	Total	C	N	O	S	0	0	0
			491	309	101	80	1			

- Molecule 33 is a protein called Ubiquitin-40S ribosomal protein S31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	E1	71	Total	C	N	O	S	0	0	0
			566	362	106	94	4			
33	e1	76	Total	C	N	O	S	0	0	0
			608	388	117	99	4			

- Molecule 34 is a protein called Guanine nucleotide-binding protein subunit beta-like protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	SR	318	Total	C	N	O	S	0	0	0
			2437	1541	418	470	8			



There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
SR	161	ALA	LYS	conflict	UNP P38011

- Molecule 35 is a protein called Ribosome-bound protein Stm1,Suppressor protein STM1,Ribosome-bound protein Stm1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
35	SM	159	Total	C	N	O	0	0	0
			1105	655	221	229			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
SM	134	LEU	ASP	conflict	UNP P39015

- Molecule 36 is a RNA chain called 25S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	1	3149	Total	C	N	O	P	0	0	0
			67355	30086	12142	21978	3149			

- Molecule 37 is a RNA chain called 5S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	3	121	Total	C	N	O	P	0	0	0
			2579	1152	461	845	121			
37	7	121	Total	C	N	O	P	0	0	0
			2579	1152	461	845	121			

- Molecule 38 is a RNA chain called 5.8S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	4	158	Total	C	N	O	P	0	0	0
			3353	1500	586	1109	158			
38	8	158	Total	C	N	O	P	0	0	0
			3353	1500	586	1109	158			

- Molecule 39 is a protein called 60S ribosomal protein L2-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	L2	252	Total	C	N	O	S	0	0	0
			1914	1191	388	334	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	12	252	Total	C	N	O	S	0	0	0
			1912	1190	388	333	1			

- Molecule 40 is a protein called 60S ribosomal protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
40	L3	386	Total	C	N	O	S	0	0	0
			3075	1950	584	533	8			
40	13	386	Total	C	N	O	S	0	0	0
			3075	1950	584	533	8			

- Molecule 41 is a protein called 60S ribosomal protein L4-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	L4	361	Total	C	N	O	S	0	0	0
			2748	1729	522	494	3			
41	14	361	Total	C	N	O	S	0	0	0
			2748	1729	522	494	3			

- Molecule 42 is a protein called 60S ribosomal protein L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	L5	296	Total	C	N	O	S	0	0	0
			2375	1501	414	458	2			
42	15	294	Total	C	N	O	S	0	0	0
			2359	1489	412	456	2			

- Molecule 43 is a protein called 60S ribosomal protein L6-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	L6	156	Total	C	N	O	S	0	0	0
			1239	800	222	216	1			
43	16	157	Total	C	N	O	S	0	0	0
			1248	806	224	217	1			

- Molecule 44 is a protein called 60S ribosomal protein L7-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	L7	222	Total	C	N	O	S	0	0	0
			1784	1151	324	308	1			
44	17	223	Total	C	N	O	S	0	0	0
			1791	1155	325	310	1			

- Molecule 45 is a protein called 60S ribosomal protein L8-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	L8	233	Total	C	N	O	S	0	0	0
			1804	1151	323	327	3			

- Molecule 46 is a protein called 60S ribosomal protein L9-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	L9	191	Total	C	N	O	S	0	0	0
			1518	963	274	277	4			
46	l9	191	Total	C	N	O	S	0	0	0
			1518	963	274	277	4			

- Molecule 47 is a protein called 60S ribosomal protein L10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	M0	211	Total	C	N	O	S	0	0	0
			1705	1083	322	294	6			
47	m0	213	Total	C	N	O	S	0	0	0
			1722	1094	325	297	6			

- Molecule 48 is a protein called 60S ribosomal protein L11-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	M1	169	Total	C	N	O	S	0	0	0
			1353	847	253	249	4			
48	m1	169	Total	C	N	O	S	0	0	0
			1353	847	253	249	4			

- Molecule 49 is a protein called 60S ribosomal protein L13-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
49	M3	193	Total	C	N	O	0	0	0
			1543	962	315	266			
49	m3	194	Total	C	N	O	0	0	0
			1548	965	316	267			

- Molecule 50 is a protein called 60S ribosomal protein L14-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	M4	136	Total	C	N	O	S	0	0	0
			1053	675	199	177	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	m4	137	Total	C	N	O	S	0	0	0
			1059	678	200	179	2			

- Molecule 51 is a protein called 60S ribosomal protein L15-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	M5	203	Total	C	N	O	S	0	0	0
			1720	1077	361	281	1			
51	m5	203	Total	C	N	O	S	0	0	0
			1720	1077	361	281	1			

- Molecule 52 is a protein called 60S ribosomal protein L16-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	M6	197	Total	C	N	O	S	0	0	0
			1555	1003	289	262	1			
52	m6	197	Total	C	N	O	S	0	0	0
			1555	1003	289	262	1			

- Molecule 53 is a protein called 60S ribosomal protein L17-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	M7	183	Total	C	N	O	S	0	0	0
			1420	882	281	257				
53	m7	155	Total	C	N	O	S	0	0	0
			1227	764	238	225				

- Molecule 54 is a protein called 60S ribosomal protein L18-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
54	M8	185	Total	C	N	O	S	0	0	0
			1441	908	290	241	2			
54	m8	185	Total	C	N	O	S	0	0	0
			1441	908	290	241	2			

- Molecule 55 is a protein called 60S ribosomal protein L19-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
55	M9	188	Total	C	N	O	S	0	0	0
			1521	935	326	260				
55	m9	188	Total	C	N	O	S	0	0	0
			1521	935	326	260				

- Molecule 56 is a protein called 60S ribosomal protein L20-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
56	N0	172	Total	C	N	O	S	0	0	0
			1445	930	267	244	4			
56	n0	172	Total	C	N	O	S	0	0	0
			1445	930	267	244	4			

- Molecule 57 is a protein called 60S ribosomal protein L21-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
57	N1	159	Total	C	N	O	S	0	0	0
			1276	805	246	221	4			
57	n1	159	Total	C	N	O	S	0	0	0
			1276	805	246	221	4			

- Molecule 58 is a protein called 60S ribosomal protein L22-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
58	N2	100	Total	C	N	O		0	0	0
			796	516	131	149				
58	n2	98	Total	C	N	O		0	0	0
			778	505	127	146				

- Molecule 59 is a protein called 60S ribosomal protein L23-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
59	N3	136	Total	C	N	O	S	0	0	0
			1003	628	189	179	7			
59	n3	136	Total	C	N	O	S	0	0	0
			1003	628	189	179	7			

- Molecule 60 is a protein called 60S ribosomal protein L24-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
60	N4	98	Total	C	N	O	S	0	0	0
			699	443	137	118	1			

- Molecule 61 is a protein called 60S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
61	N5	121	Total	C	N	O	S	0	0	0
			964	620	169	173	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
61	n5	120	Total	C	N	O	S	0	0	0
			959	617	168	172	2			

- Molecule 62 is a protein called 60S ribosomal protein L26-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
62	N6	126	Total	C	N	O		0	0	0
			993	625	192	176				
62	n6	126	Total	C	N	O		0	0	0
			993	625	192	176				

- Molecule 63 is a protein called 60S ribosomal protein L27-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
63	N7	135	Total	C	N	O		0	0	0
			1092	710	202	180				
63	n7	135	Total	C	N	O		0	0	0
			1092	710	202	180				

- Molecule 64 is a protein called 60S ribosomal protein L28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
64	N8	148	Total	C	N	O	S	0	0	0
			1173	749	231	190	3			
64	n8	148	Total	C	N	O	S	0	0	0
			1173	749	231	190	3			

- Molecule 65 is a protein called 60S ribosomal protein L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
65	N9	58	Total	C	N	O		0	0	0
			462	289	100	73				
65	n9	58	Total	C	N	O		0	0	0
			462	289	100	73				

- Molecule 66 is a protein called 60S ribosomal protein L30.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
66	O0	97	Total	C	N	O	S	0	0	0
			743	479	124	139	1			
66	o0	100	Total	C	N	O	S	0	0	0
			767	492	128	146	1			

- Molecule 67 is a protein called 60S ribosomal protein L31-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
67	O1	109	Total	C	N	O	S	0	0	0
			876	556	167	152	1			
67	o1	109	Total	C	N	O	S	0	0	0
			883	559	167	156	1			

- Molecule 68 is a protein called 60S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
68	O2	127	Total	C	N	O	S	0	0	0
			1020	647	205	167	1			
68	o2	127	Total	C	N	O	S	0	0	0
			1020	647	205	167	1			

- Molecule 69 is a protein called 60S ribosomal protein L33-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
69	O3	106	Total	C	N	O	S	0	0	0
			850	540	165	144	1			
69	o3	106	Total	C	N	O	S	0	0	0
			850	540	165	144	1			

- Molecule 70 is a protein called 60S ribosomal protein L34-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
70	O4	112	Total	C	N	O	S	0	0	0
			880	545	179	152	4			
70	o4	112	Total	C	N	O	S	0	0	0
			880	545	179	152	4			

- Molecule 71 is a protein called 60S ribosomal protein L35-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
71	O5	119	Total	C	N	O	S	0	0	0
			969	615	186	167	1			
71	o5	119	Total	C	N	O	S	0	0	0
			965	612	185	167	1			

- Molecule 72 is a protein called 60S ribosomal protein L36-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
72	O6	99	Total	C	N	O	S	0	0	0
			771	481	156	132	2			
72	o6	99	Total	C	N	O	S	0	0	0
			770	481	156	131	2			

- Molecule 73 is a protein called 60S ribosomal protein L37-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
73	O7	87	Total	C	N	O	S	0	0	0
			681	414	148	114	5			
73	o7	87	Total	C	N	O	S	0	0	0
			681	414	148	114	5			

- Molecule 74 is a protein called 60S ribosomal protein L38.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
74	O8	77	Total	C	N	O		0	0	0
			612	391	115	106				
74	o8	77	Total	C	N	O		0	0	0
			608	388	114	106				

- Molecule 75 is a protein called 60S ribosomal protein L39.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
75	O9	50	Total	C	N	O	S	0	0	0
			436	272	97	65	2			
75	o9	50	Total	C	N	O	S	0	0	0
			436	272	97	65	2			

- Molecule 76 is a protein called Ubiquitin-60S ribosomal protein L40.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
76	Q0	52	Total	C	N	O	S	0	0	0
			417	259	86	67	5			
76	q0	52	Total	C	N	O	S	0	0	0
			417	259	86	67	5			

- Molecule 77 is a protein called 60S ribosomal protein L41-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
77	Q1	25	Total	C	N	O	S	0	0	0
			233	142	63	27	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
77	q1	25	Total	C	N	O	S	0	0	0
			233	142	63	27	1			

- Molecule 78 is a protein called 60S ribosomal protein L42-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
78	Q2	105	Total	C	N	O	S	0	0	0
			847	534	170	138	5			
78	q2	105	Total	C	N	O	S	0	0	0
			847	534	170	138	5			

- Molecule 79 is a protein called 60S ribosomal protein L43-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
79	Q3	91	Total	C	N	O	S	0	0	0
			694	429	138	121	6			
79	q3	91	Total	C	N	O	S	0	0	0
			694	429	138	121	6			

- Molecule 80 is a RNA chain called 18S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
80	6	1795	Total	C	N	O	P	0	1	0
			38260	17105	6763	12596	1796			

- Molecule 81 is a protein called 40S ribosomal protein S10-A,40S Ribosomal Protein S10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
81	c0	96	Total	C	N	O	S	0	0	0
			762	491	125	144	2			

- Molecule 82 is a protein called ES17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
82	c7	117	Total	C	N	O	S	0	0	0
			906	563	174	167	2			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
c7	90	ALA	-	insertion	UNP A0A0J9X224

- Molecule 83 is a protein called Guanine nucleotide-binding protein subunit beta-like protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
83	sR	318	Total	C	N	O	S	0	0	0
			2442	1544	418	472	8			

- Molecule 84 is a protein called Suppressor protein STM1,Ribosome-bound protein Stm1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
84	sM	104	Total	C	N	O		0	0	0
			681	404	140	137				

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
sM	59	ALA	GLY	conflict	UNP P39015

- Molecule 85 is a RNA chain called 25S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
85	5	3150	Total	C	N	O	P	0	0	0
			67376	30095	12145	21987	3149			

- Molecule 86 is a protein called 60S ribosomal protein L8-A,60S Ribosomal Protein L8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
86	l8	231	Total	C	N	O	S	0	0	0
			1763	1130	316	314	3			

- Molecule 87 is a protein called 60S Ribosomal Protein L12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
87	m2	150	Total	C	N	O		0	0	0
			750	450	150	150				

- Molecule 88 is a protein called 60S ribosomal protein L24-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
88	n4	135	Total	C	N	O	S	0	0	0
			1038	651	206	180	1			

- Molecule 89 is a protein called 60S Ribosomal Protein P0.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
89	p0	143	Total	C	N	O	S	0	0	0
			1077	687	192	195	3			

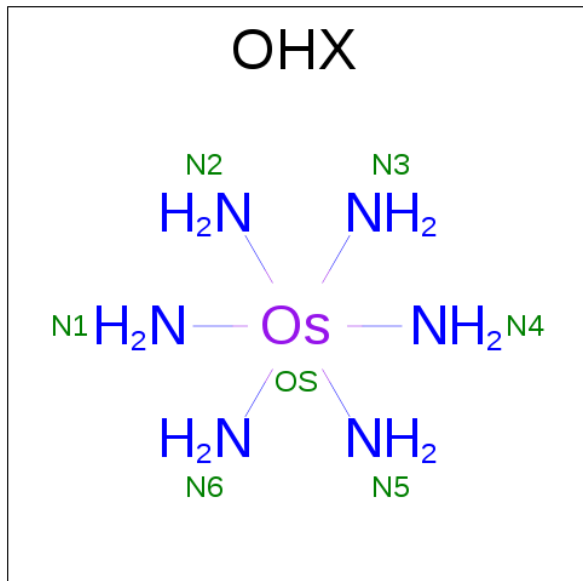
- Molecule 90 is a protein called 60S Ribosomal Protein P1/2.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
90	p1	47	Total	C	N	O	0	0	0
			235	141	47	47			
90	p2	46	Total	C	N	O	0	0	0
			230	138	46	46			

- Molecule 91 is a RNA chain called Peptidyl-tRNA analog ACCA-Leu-Phe.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
91	P	2	Total	C	N	O	P	0	0	0
			37	18	6	12	1			
91	p	2	Total	C	N	O	P	0	0	0
			40	18	6	14	2			

- Molecule 92 is osmium (III) hexammine (three-letter code: OHX) (formula:  $\text{H}_{12}\text{N}_6\text{Os}$ ).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
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92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
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92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
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92	2	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
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92	2	1	Total	N	Os	0	0
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92	2	1	Total	N	Os	0	0
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92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
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92	2	1	Total	N	Os	0	0
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92	2	1	Total	N	Os	0	0
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			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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			7	6	1		
92	2	1	Total	N	Os	0	0
			7	6	1		
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92	S9	1	Total	N	Os	0	0
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92	C3	1	Total	N	Os	0	0
			7	6	1		
92	C5	1	Total	N	Os	0	0
			7	6	1		
92	C7	1	Total	N	Os	0	0
			7	6	1		
92	C8	1	Total	N	Os	0	0
			7	6	1		
92	D9	1	Total	N	Os	0	0
			7	6	1		
92	SR	1	Total	N	Os	0	0
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			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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92	1	1	Total	N	Os	0	0
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			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
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			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
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			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
			7	6	1		
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
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			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
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			7	6	1		
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92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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			7	6	1		
92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
			7	6	1		
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
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			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
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			7	6	1		
92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
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			7	6	1		
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			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		
92	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
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92	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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92	3	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
92	3	1	Total	N	Os	0	0
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92	3	1	Total	N	Os	0	0
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92	3	1	Total	N	Os	0	0
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92	3	1	Total	N	Os	0	0
			7	6	1		
92	3	1	Total	N	Os	0	0
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92	3	1	Total	N	Os	0	0
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92	4	1	Total	N	Os	0	0
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			7	6	1		
92	4	1	Total	N	Os	0	0
			7	6	1		
92	4	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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92	4	1	Total	N	Os	0	0
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92	4	1	Total	N	Os	0	0
			7	6	1		
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92	4	1	Total	N	Os	0	0
			7	6	1		
92	4	1	Total	N	Os	0	0
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92	4	1	Total	N	Os	0	0
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92	L3	1	Total	N	Os	0	0
			7	6	1		
92	L3	1	Total	N	Os	0	0
			7	6	1		
92	L4	1	Total	N	Os	0	0
			7	6	1		
92	L6	1	Total	N	Os	0	0
			7	6	1		
92	L6	1	Total	N	Os	0	0
			7	6	1		
92	M0	1	Total	N	Os	0	0
			7	6	1		
92	M5	1	Total	N	Os	0	0
			7	6	1		
92	M5	1	Total	N	Os	0	0
			7	6	1		
92	M6	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	M7	1	Total	N	Os	0	0
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92	M8	1	Total	N	Os	0	0
			7	6	1		
92	M9	1	Total	N	Os	0	0
			7	6	1		
92	N9	1	Total	N	Os	0	0
			7	6	1		
92	O3	1	Total	N	Os	0	0
			7	6	1		
92	O4	1	Total	N	Os	0	0
			7	6	1		
92	O7	1	Total	N	Os	0	0
			7	6	1		
92	O9	1	Total	N	Os	0	0
			7	6	1		
92	Q2	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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			7	6	1		
92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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			7	6	1		
92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
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92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
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92	6	1	Total	N	Os	0	0
			7	6	1		
92	6	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	s1	1	Total	N	Os	0	0
			7	6	1		
92	s4	1	Total	N	Os	0	0
			7	6	1		
92	s8	1	Total	N	Os	0	0
			7	6	1		
92	s9	1	Total	N	Os	0	0
			7	6	1		
92	c3	1	Total	N	Os	0	0
			7	6	1		
92	c5	1	Total	N	Os	0	0
			7	6	1		
92	c8	1	Total	N	Os	0	0
			7	6	1		
92	d4	1	Total	N	Os	0	0
			7	6	1		
92	sR	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
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92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	5	1	Total	N	Os	0	0
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92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
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92	5	1	Total	N	Os	0	0
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92	5	1	Total	N	Os	0	0
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92	5	1	Total	N	Os	0	0
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92	5	1	Total	N	Os	0	0
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92	5	1	Total	N	Os	0	0
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92	5	1	Total	N	Os	0	0
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92	5	1	Total	N	Os	0	0
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92	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	5	1	Total	N	Os	0	0
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92	5	1	Total	N	Os	0	0
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92	5	1	Total	N	Os	0	0
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92	5	1	Total	N	Os	0	0
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92	5	1	Total	N	Os	0	0
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92	5	1	Total	N	Os	0	0
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92	5	1	Total	N	Os	0	0
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92	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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92	5	1	Total	N	Os	0	0
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92	5	1	Total	N	Os	0	0
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92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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92	5	1	Total	N	Os	0	0
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92	5	1	Total	N	Os	0	0
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92	5	1	Total	N	Os	0	0
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92	5	1	Total	N	Os	0	0
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92	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	5	1	Total	N	Os	0	0
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92	5	1	Total	N	Os	0	0
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92	5	1	Total	N	Os	0	0
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92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
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92	5	1	Total	N	Os	0	0
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92	5	1	Total	N	Os	0	0
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92	5	1	Total	N	Os	0	0
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92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	5	1	Total	N	Os	0	0
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92	5	1	Total	N	Os	0	0
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92	5	1	Total	N	Os	0	0
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92	5	1	Total	N	Os	0	0
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92	5	1	Total	N	Os	0	0
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92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	5	1	Total	N	Os	0	0
			7	6	1		
92	7	1	Total	N	Os	0	0
			7	6	1		
92	7	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	7	1	Total	N	Os	0	0
			7	6	1		
92	7	1	Total	N	Os	0	0
			7	6	1		
92	7	1	Total	N	Os	0	0
			7	6	1		
92	7	1	Total	N	Os	0	0
			7	6	1		
92	7	1	Total	N	Os	0	0
			7	6	1		
92	7	1	Total	N	Os	0	0
			7	6	1		
92	7	1	Total	N	Os	0	0
			7	6	1		
92	8	1	Total	N	Os	0	0
			7	6	1		
92	8	1	Total	N	Os	0	0
			7	6	1		
92	8	1	Total	N	Os	0	0
			7	6	1		
92	8	1	Total	N	Os	0	0
			7	6	1		
92	8	1	Total	N	Os	0	0
			7	6	1		
92	8	1	Total	N	Os	0	0
			7	6	1		
92	8	1	Total	N	Os	0	0
			7	6	1		
92	8	1	Total	N	Os	0	0
			7	6	1		
92	8	1	Total	N	Os	0	0
			7	6	1		
92	8	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	8	1	Total 7	N 6	Os 1	0	0
92	8	1	Total 7	N 6	Os 1	0	0
92	8	1	Total 7	N 6	Os 1	0	0
92	8	1	Total 7	N 6	Os 1	0	0
92	l3	1	Total 7	N 6	Os 1	0	0
92	l3	1	Total 7	N 6	Os 1	0	0
92	l5	1	Total 7	N 6	Os 1	0	0
92	l5	1	Total 7	N 6	Os 1	0	0
92	l9	1	Total 7	N 6	Os 1	0	0
92	m0	1	Total 7	N 6	Os 1	0	0
92	m0	1	Total 7	N 6	Os 1	0	0
92	m0	1	Total 7	N 6	Os 1	0	0
92	m5	1	Total 7	N 6	Os 1	0	0
92	m5	1	Total 7	N 6	Os 1	0	0
92	m6	1	Total 7	N 6	Os 1	0	0
92	m8	1	Total 7	N 6	Os 1	0	0
92	m9	1	Total 7	N 6	Os 1	0	0
92	n9	1	Total 7	N 6	Os 1	0	0
92	o3	1	Total 7	N 6	Os 1	0	0
92	o7	1	Total 7	N 6	Os 1	0	0
92	o7	1	Total 7	N 6	Os 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
92	q2	1	Total	N	Os	0	0
			7	6	1		

- Molecule 93 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
93	L7	2	Total	Mg	0	0
			2	2		
93	m6	4	Total	Mg	0	0
			4	4		
93	l6	1	Total	Mg	0	0
			1	1		
93	N5	1	Total	Mg	0	0
			1	1		
93	6	126	Total	Mg	0	0
			126	126		
93	sM	2	Total	Mg	0	0
			2	2		
93	O4	1	Total	Mg	0	0
			1	1		
93	m5	2	Total	Mg	0	0
			2	2		
93	l3	4	Total	Mg	0	0
			4	4		
93	C1	1	Total	Mg	0	0
			1	1		
93	d6	1	Total	Mg	0	0
			1	1		
93	C8	1	Total	Mg	0	0
			1	1		
93	n0	2	Total	Mg	0	0
			2	2		
93	L4	5	Total	Mg	0	0
			5	5		
93	l7	1	Total	Mg	0	0
			1	1		
93	M5	1	Total	Mg	0	0
			1	1		
93	o9	1	Total	Mg	0	0
			1	1		
93	N6	2	Total	Mg	0	0
			2	2		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
93	c9	1	Total 1	Mg 1	0	0
93	o4	1	Total 1	Mg 1	0	0
93	M0	1	Total 1	Mg 1	0	0
93	p	2	Total 2	Mg 2	0	0
93	5	427	Total 427	Mg 427	0	0
93	c8	2	Total 2	Mg 2	0	0
93	O7	4	Total 4	Mg 4	0	0
93	s6	1	Total 1	Mg 1	0	0
93	d4	1	Total 1	Mg 1	0	0
93	n9	2	Total 2	Mg 2	0	0
93	1	394	Total 394	Mg 394	0	0
93	s4	1	Total 1	Mg 1	0	0
93	c6	1	Total 1	Mg 1	0	0
93	Q2	1	Total 1	Mg 1	0	0
93	d3	1	Total 1	Mg 1	0	0
93	D9	2	Total 2	Mg 2	0	0
93	o3	2	Total 2	Mg 2	0	0
93	M3	1	Total 1	Mg 1	0	0
93	N3	3	Total 3	Mg 3	0	0
93	4	17	Total 17	Mg 17	0	0
93	n6	2	Total 2	Mg 2	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
93	S4	1	Total 1	Mg 1	0	0
93	L2	2	Total 2	Mg 2	0	0
93	d7	1	Total 1	Mg 1	0	0
93	l5	1	Total 1	Mg 1	0	0
93	m7	3	Total 3	Mg 3	0	0
93	M7	5	Total 5	Mg 5	0	0
93	m4	1	Total 1	Mg 1	0	0
93	P	1	Total 1	Mg 1	0	0
93	N8	6	Total 6	Mg 6	0	0
93	l9	1	Total 1	Mg 1	0	0
93	o2	2	Total 2	Mg 2	0	0
93	3	7	Total 7	Mg 7	0	0
93	n8	3	Total 3	Mg 3	0	0
93	7	15	Total 15	Mg 15	0	0
93	n3	1	Total 1	Mg 1	0	0
93	q1	1	Total 1	Mg 1	0	0
93	L3	3	Total 3	Mg 3	0	0
93	O5	1	Total 1	Mg 1	0	0
93	2	90	Total 90	Mg 90	0	0
93	l2	3	Total 3	Mg 3	0	0
93	8	14	Total 14	Mg 14	0	0

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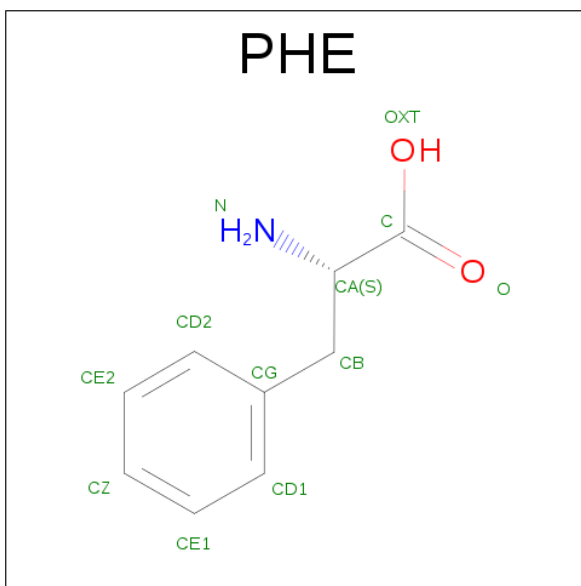
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
93	m0	1	Total 1	Mg 1	0	0
93	N0	2	Total 2	Mg 2	0	0
93	C9	1	Total 1	Mg 1	0	0

- Molecule 94 is ZINC ION (three-letter code: ZN) (formula: Zn).

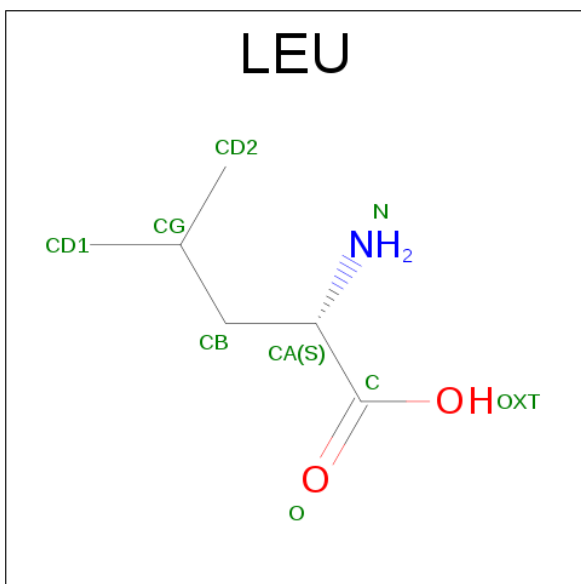
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
94	q0	1	Total 1	Zn 1	0	0
94	D6	1	Total 1	Zn 1	0	0
94	Q2	1	Total 1	Zn 1	0	0
94	e1	1	Total 1	Zn 1	0	0
94	Q3	1	Total 1	Zn 1	0	0
94	D9	1	Total 1	Zn 1	0	0
94	E1	1	Total 1	Zn 1	0	0
94	Q0	1	Total 1	Zn 1	0	0
94	d7	1	Total 1	Zn 1	0	0
94	q3	1	Total 1	Zn 1	0	0
94	d9	1	Total 1	Zn 1	0	0
94	D7	1	Total 1	Zn 1	0	0
94	d6	1	Total 1	Zn 1	0	0
94	o7	1	Total 1	Zn 1	0	0
94	O7	1	Total 1	Zn 1	0	0
94	q2	1	Total 1	Zn 1	0	0

- Molecule 95 is PHENYLALANINE (three-letter code: PHE) (formula:  $C_9H_{11}NO_2$ ).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
95	1	1	Total	C	N	O	0	0
			11	9	1	1		
95	5	1	Total	C	N	O	0	0
			11	9	1	1		

- Molecule 96 is LEUCINE (three-letter code: LEU) (formula:  $C_6H_{13}NO_2$ ).



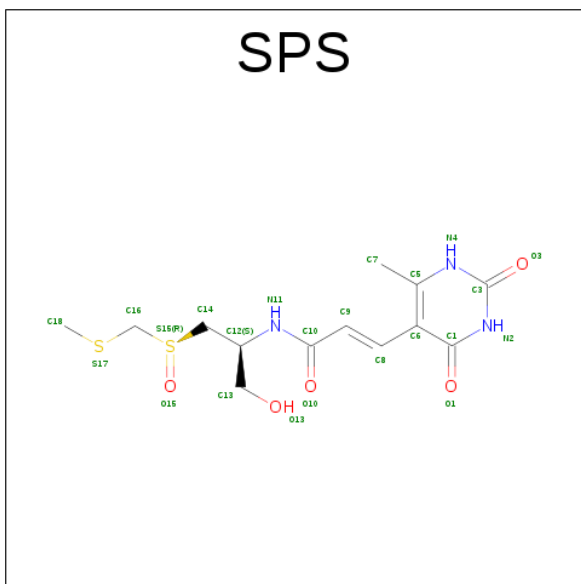
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
96	1	1	Total	C	N	O	0	0
			8	6	1	1		

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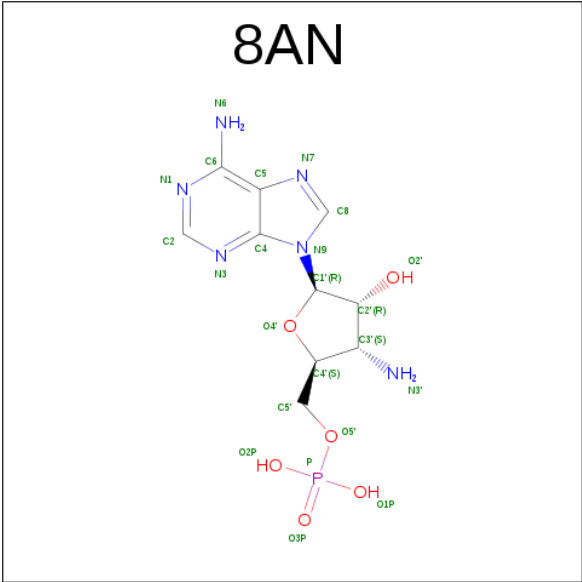
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
96	5	1	Total	C	N	O	0	0
			8	6	1	1		

- Molecule 97 is SPARSOMYCIN (three-letter code: SPS) (formula:  $\text{C}_{13}\text{H}_{19}\text{N}_3\text{O}_5\text{S}_2$ ).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
97	1	1	Total 23	C 13	N 3	O 5	S 2	0	0
97	5	1	Total 23	C 13	N 3	O 5	S 2	0	0

- Molecule 98 is 3'-amino-3'-deoxyadenosine 5'-(dihydrogen phosphate) (three-letter code: 8AN) (formula:  $\text{C}_{10}\text{H}_{15}\text{N}_6\text{O}_6\text{P}$ ).

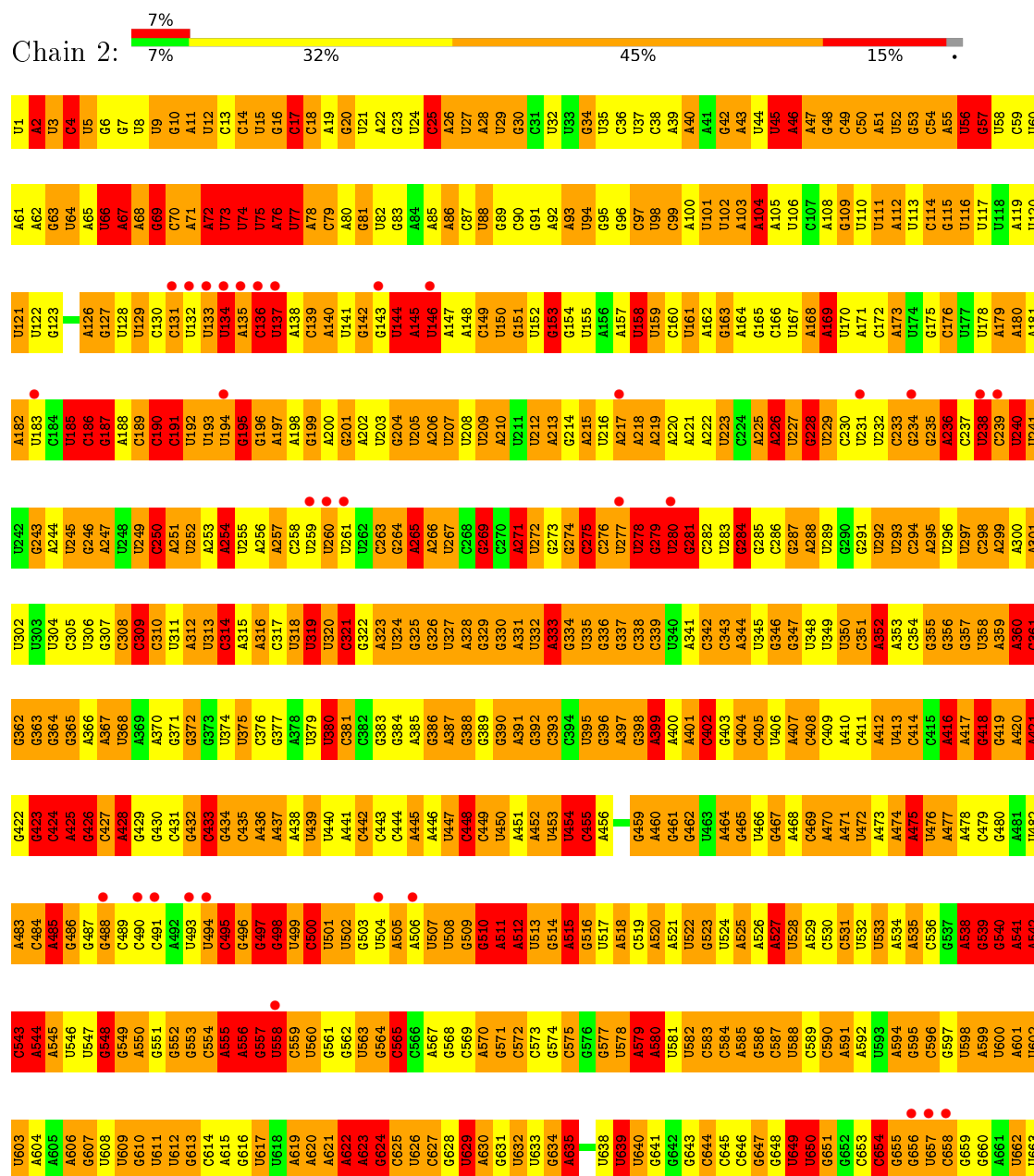


Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
98	P	1	Total	C	N	O	P	0	0
			22	10	6	5	1		
98	p	1	Total	C	N	O	P	0	0
			22	10	6	5	1		

### 3 Residue-property plots

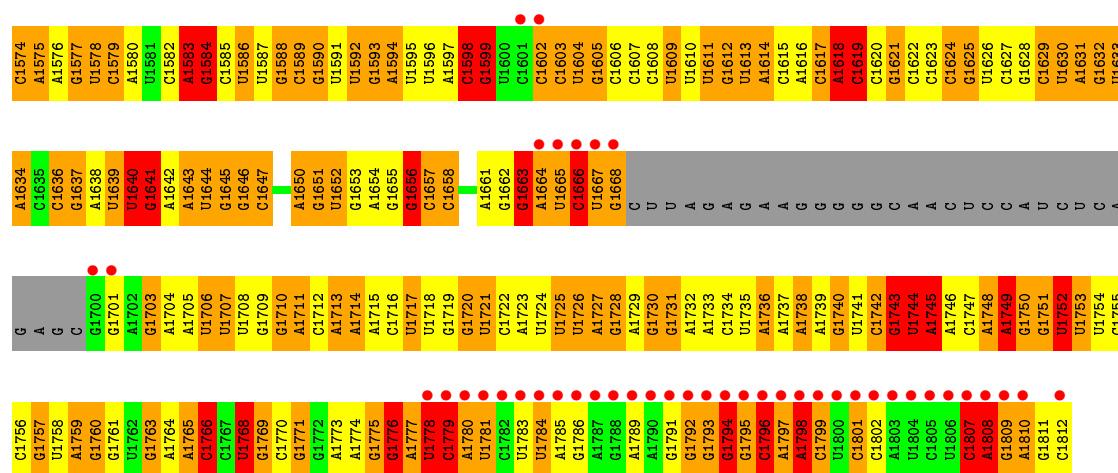
These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density ( $\text{RSRZ} > 2$ ). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

- Molecule 1: 18S ribosomal RNA

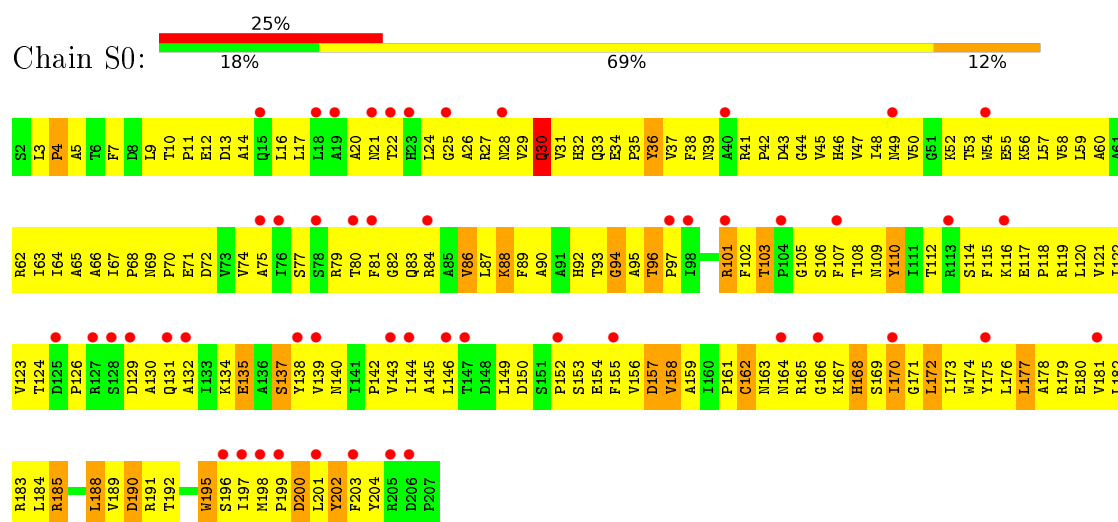


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C1455	C1456	A1394	C1457	A1458	U1398	G1399	A1400	G1462	G1463	C1464	C1465	A1405	U1406	G1467	A1469	A1470	G1471	A1472	G1473	A1474	A1475	A1476	C1477	C1478	A1479	G1480	G1481	G1482	G1483	C1484	G1485	A1486	G1487	A1488	G1489	G1490	G1491	G1492	G1493	G1494	G1495	A1496	G1497	A1498	A1499	U1500	C1501	G1502	G1503	G1504	G1505	G1506	A1507	A1508	A1509	G1510	U1511	G1512	G1513	G1514			
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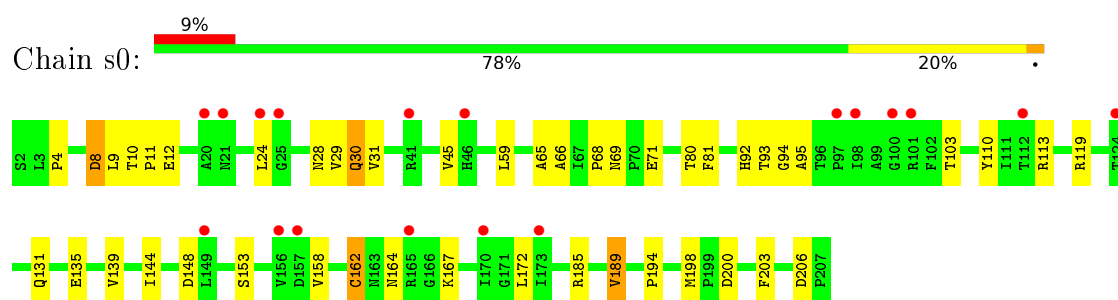




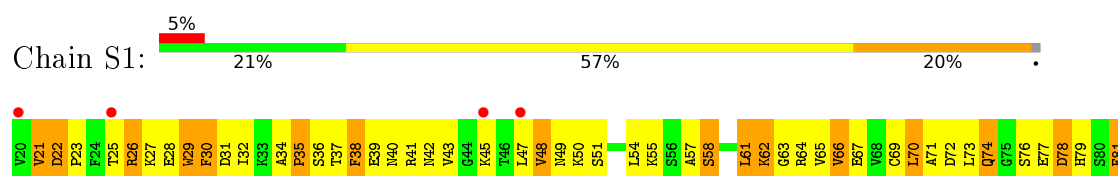
• Molecule 2: 40S ribosomal protein S0-A

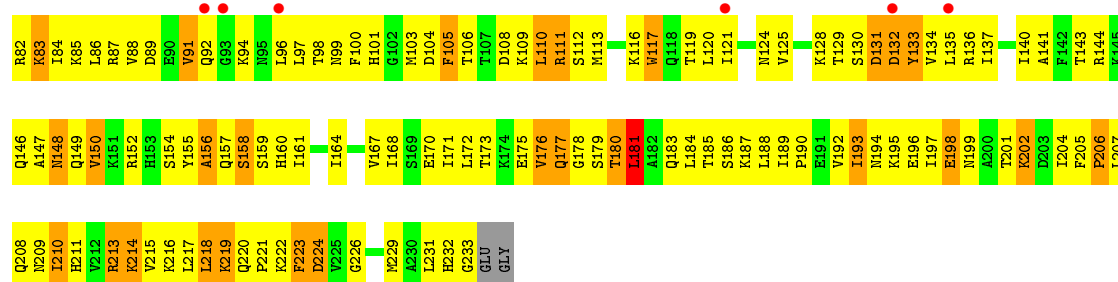


• Molecule 2: 40S ribosomal protein S0-A

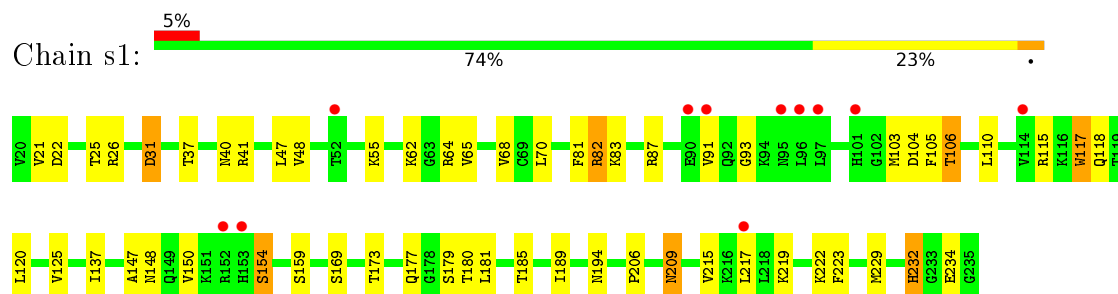


• Molecule 3: 40S ribosomal protein S1-A

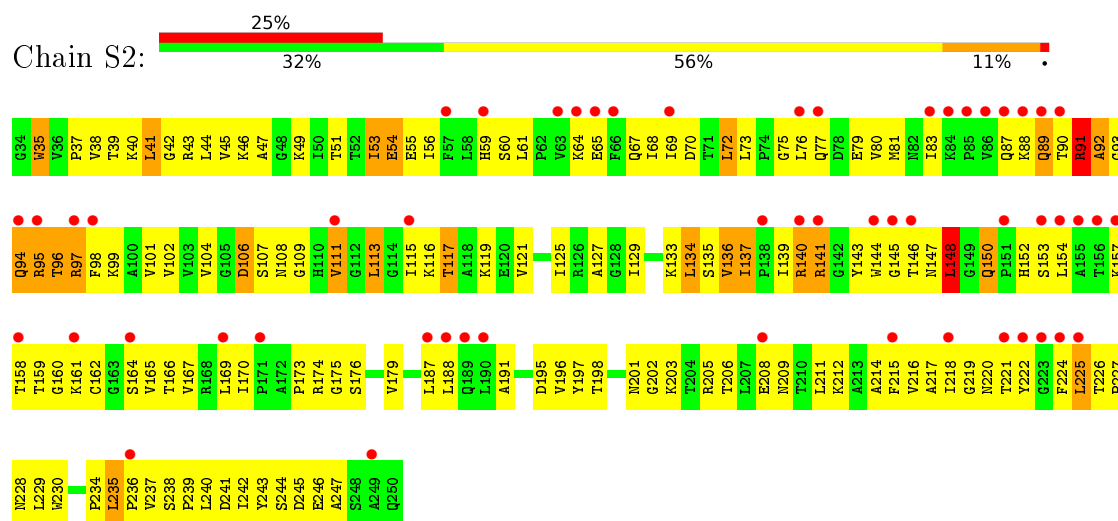




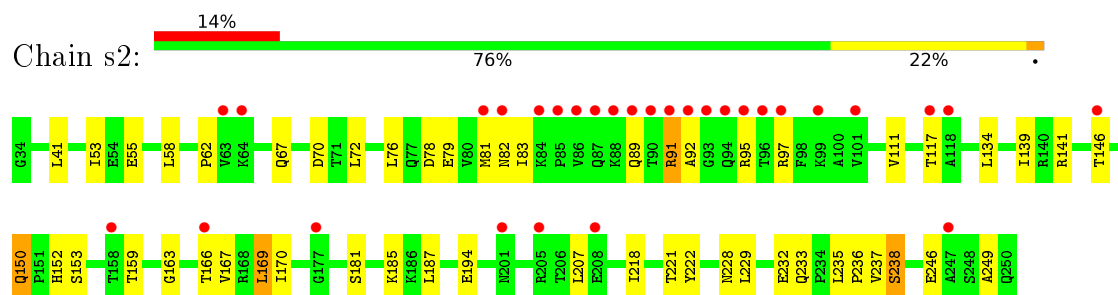
• Molecule 3: 40S ribosomal protein S1-A



• Molecule 4: 40S ribosomal protein S2



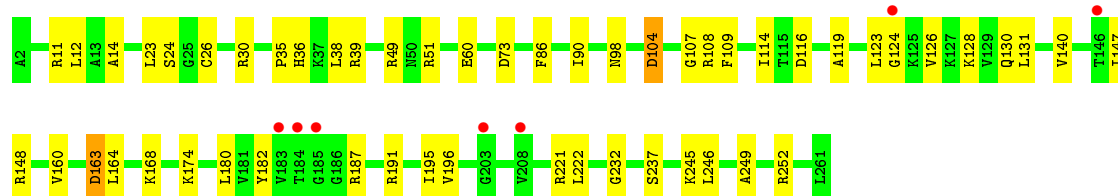
• Molecule 4: 40S ribosomal protein S2



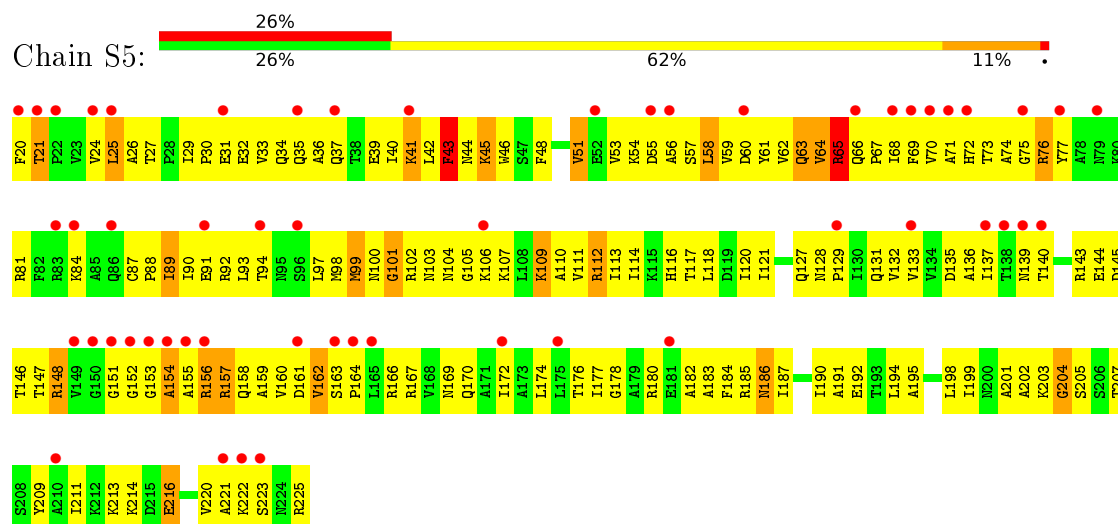
• Molecule 5: 40S ribosomal protein S3



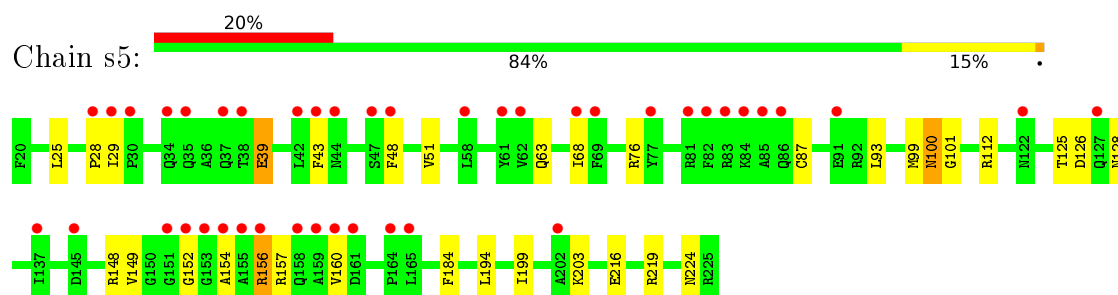




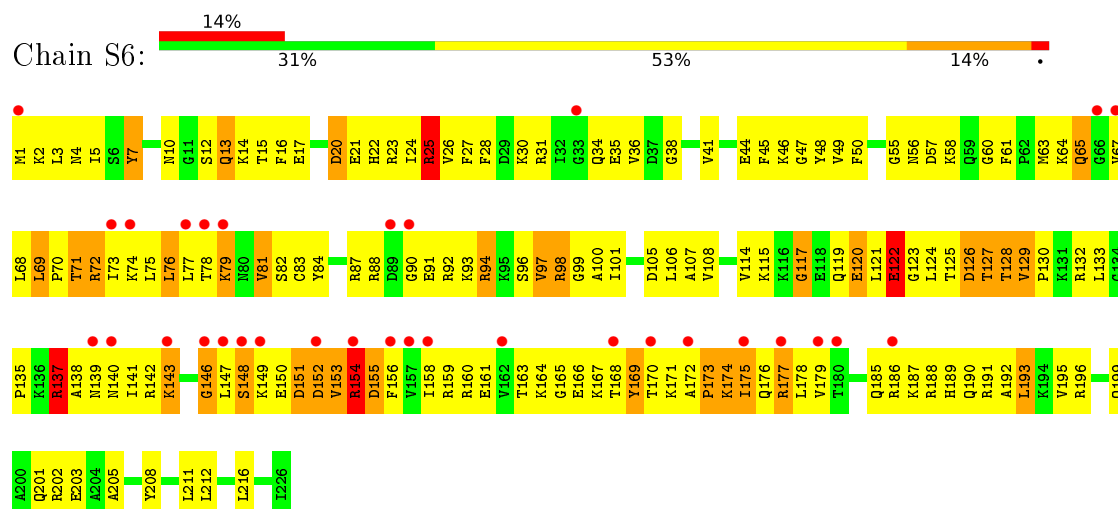
• Molecule 7: 40S ribosomal protein S5



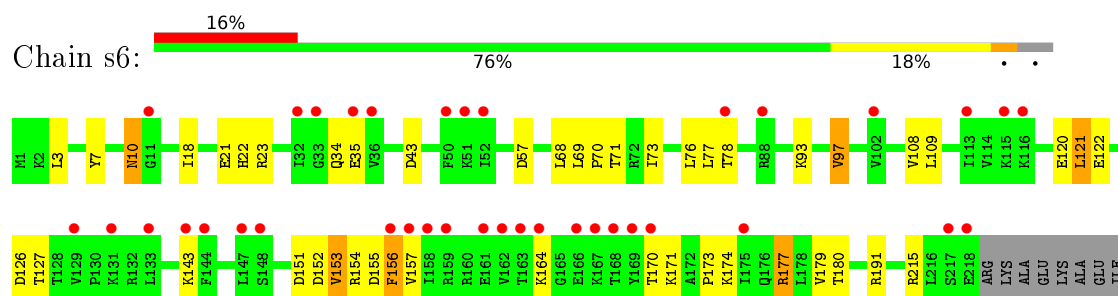
• Molecule 7: 40S ribosomal protein S5



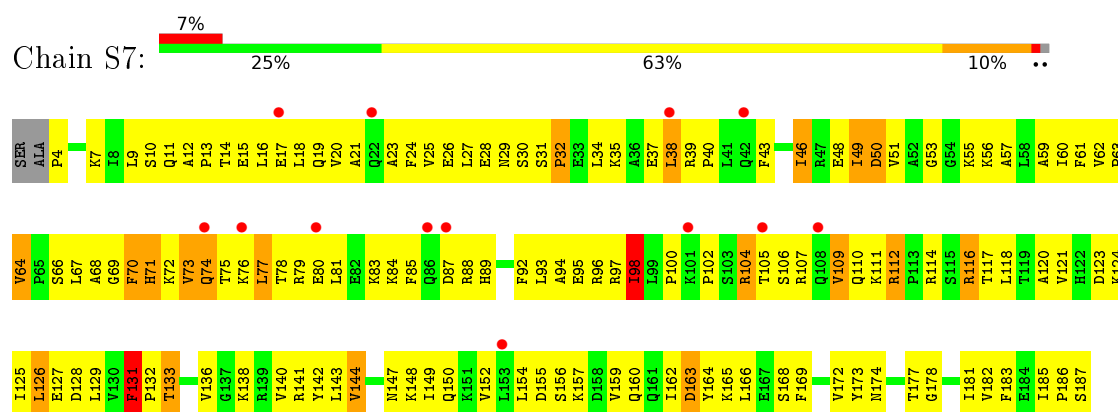
• Molecule 8: 40S ribosomal protein S6-A



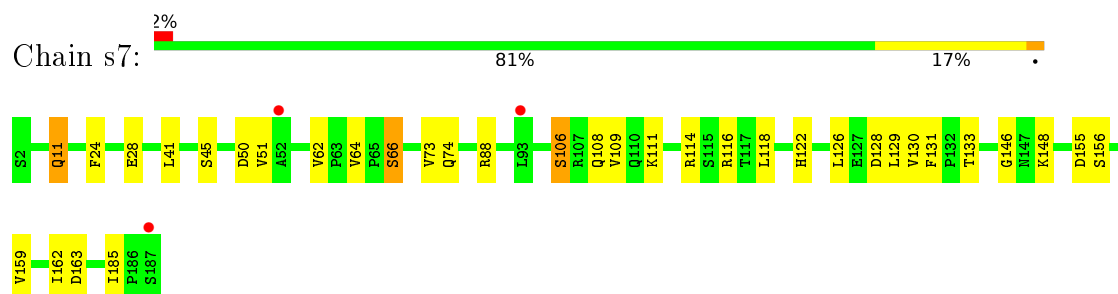
- Molecule 8: 40S ribosomal protein S6-A



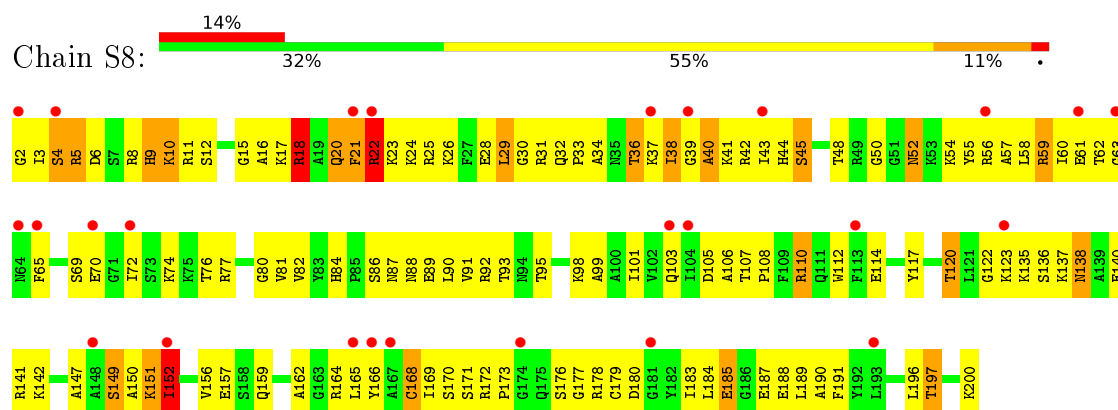
- Molecule 9: 40S ribosomal protein S7-A



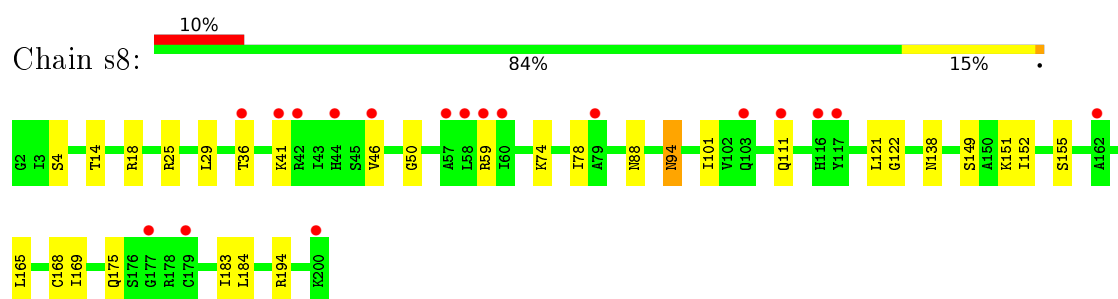
- Molecule 9: 40S ribosomal protein S7-A



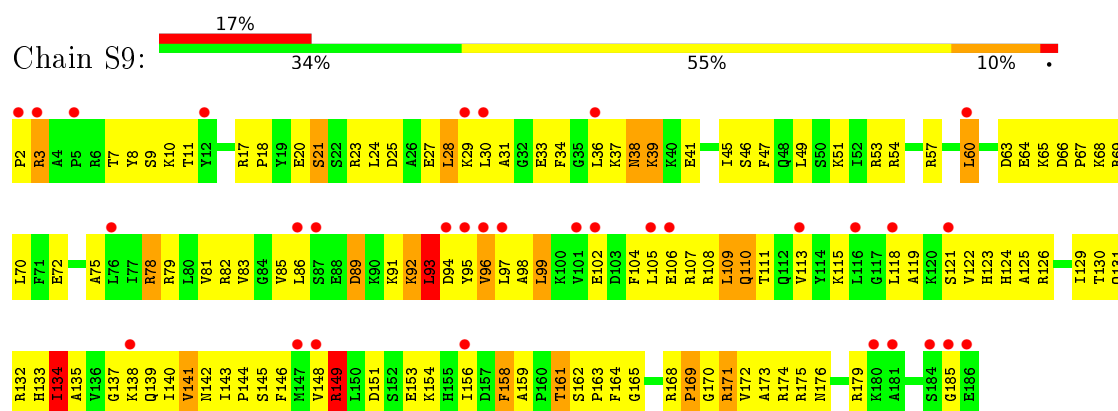
- Molecule 10: 40S ribosomal protein S8



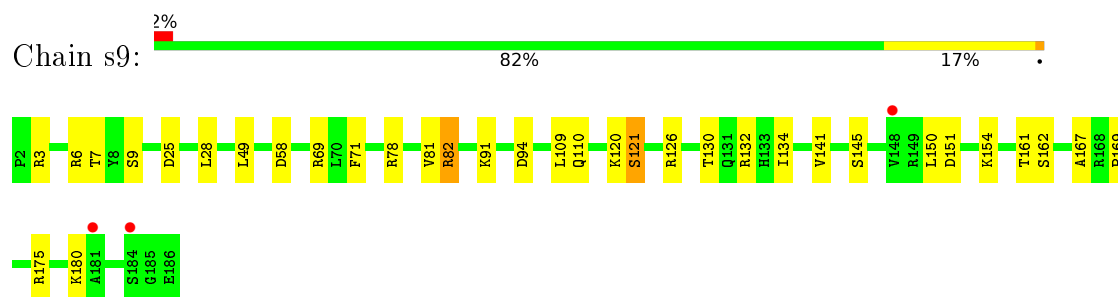
- Molecule 10: 40S ribosomal protein S8



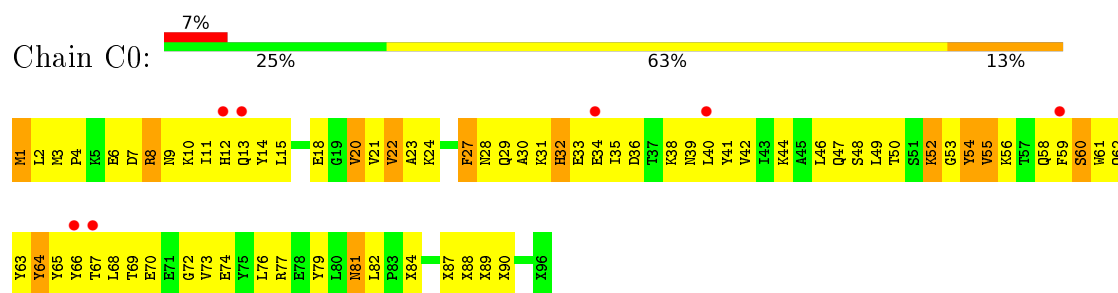
• Molecule 11: 40S ribosomal protein S9-A



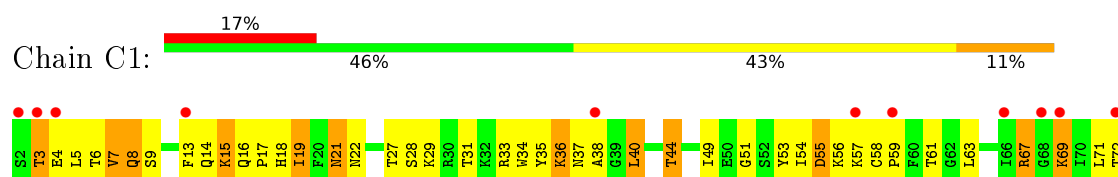
• Molecule 11: 40S ribosomal protein S9-A

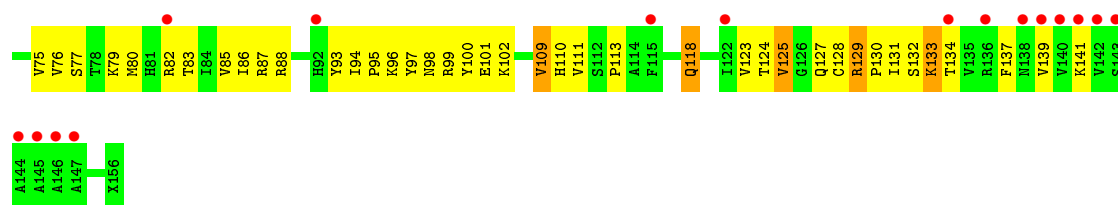


• Molecule 12: 40S ribosomal protein S10-A, 40S Ribosomal Protein S10

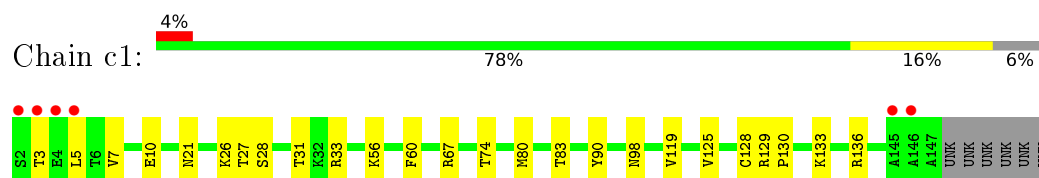


• Molecule 13: 40S ribosomal protein S11-A, 40S Ribosomal Protein S11

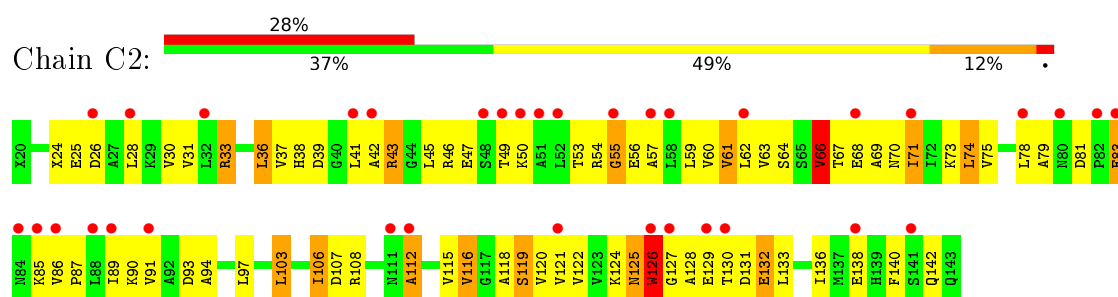




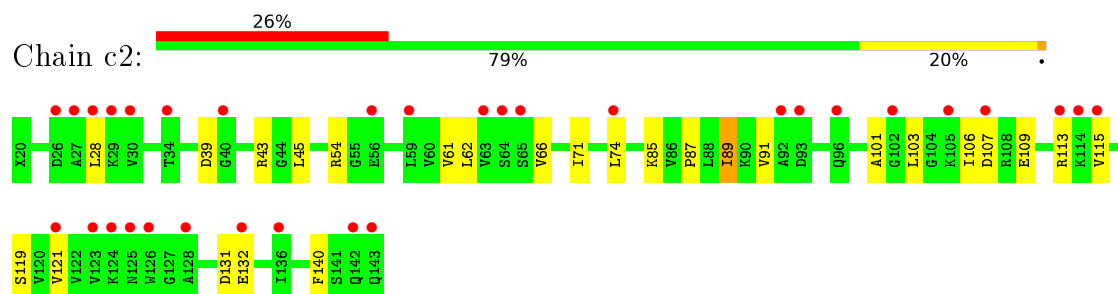
- Molecule 13: 40S ribosomal protein S11-A, 40S Ribosomal Protein S11



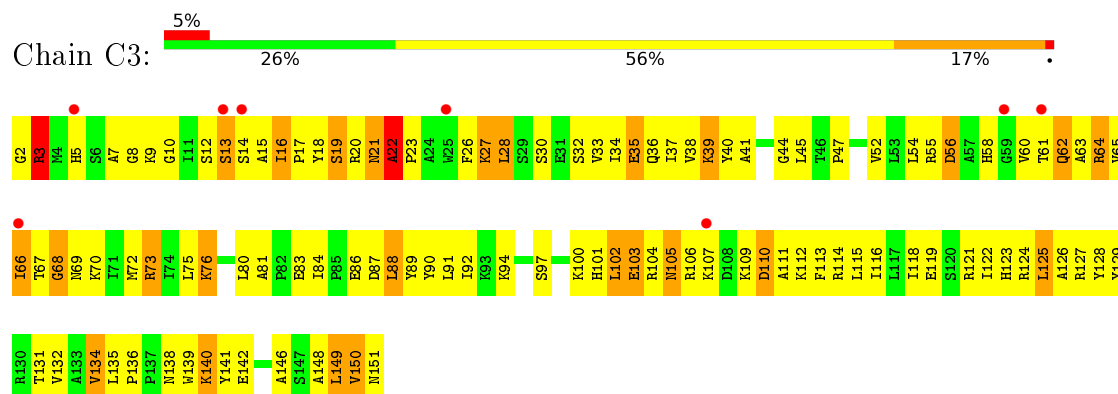
- Molecule 14: 40S Ribosomal Protein S12, 40S ribosomal protein S12



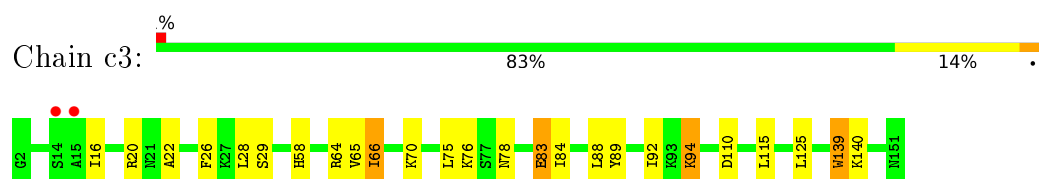
- Molecule 14: 40S Ribosomal Protein S12, 40S ribosomal protein S12



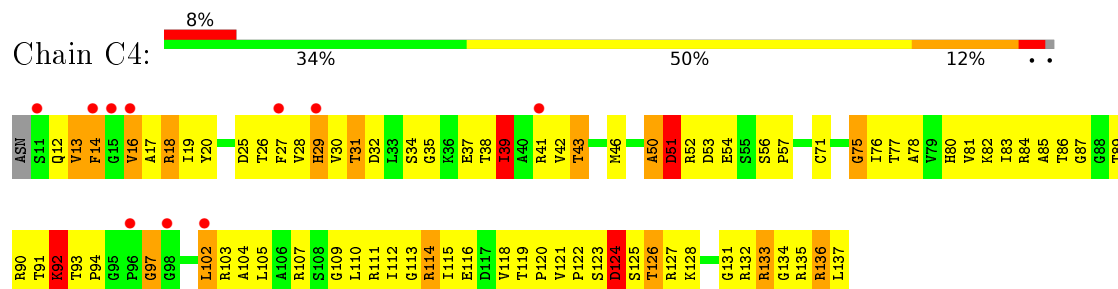
- Molecule 15: 40S ribosomal protein S13



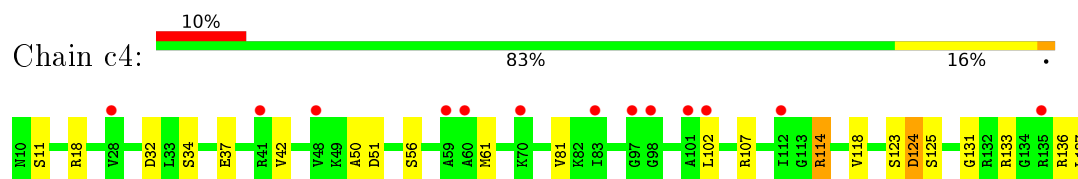
- Molecule 15: 40S ribosomal protein S13



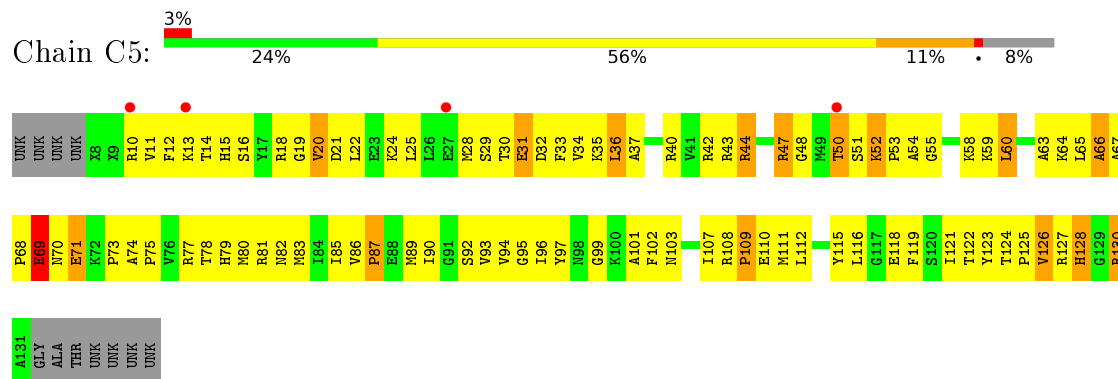
- Molecule 16: 40S ribosomal protein S14-A



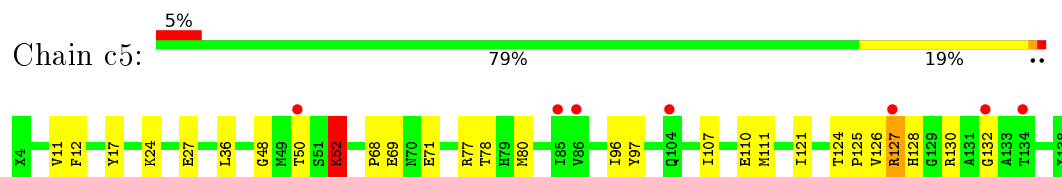
- Molecule 16: 40S ribosomal protein S14-A



- Molecule 17: 40S Ribosomal Protein S15,40S ribosomal protein S15,40S Ribosomal Protein S15



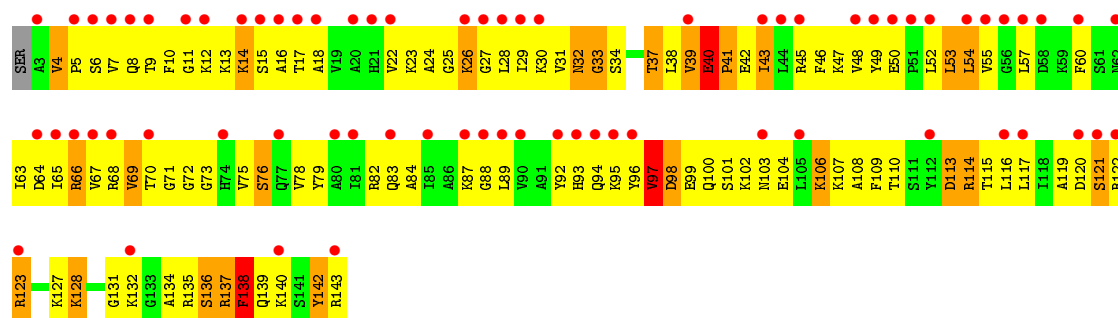
- Molecule 17: 40S Ribosomal Protein S15,40S ribosomal protein S15,40S Ribosomal Protein S15



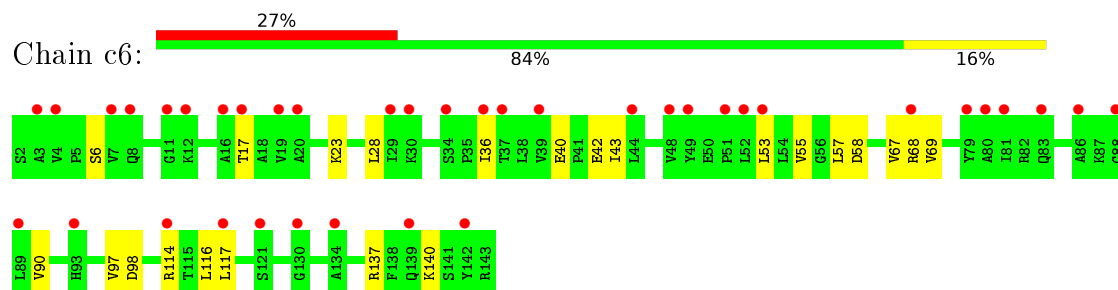
- Molecule 18: 40S ribosomal protein S16-A



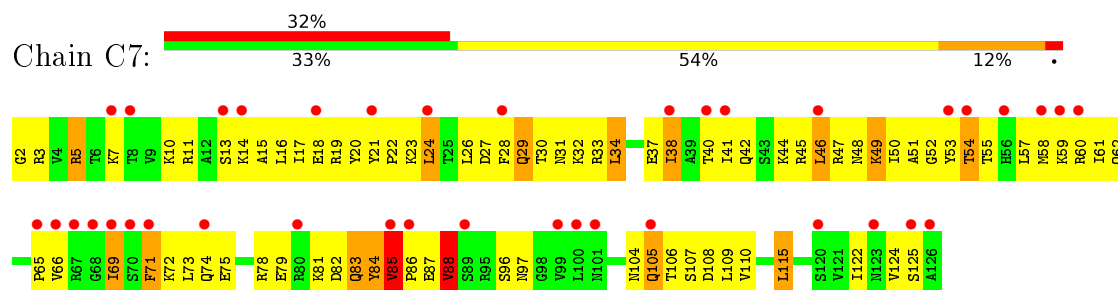




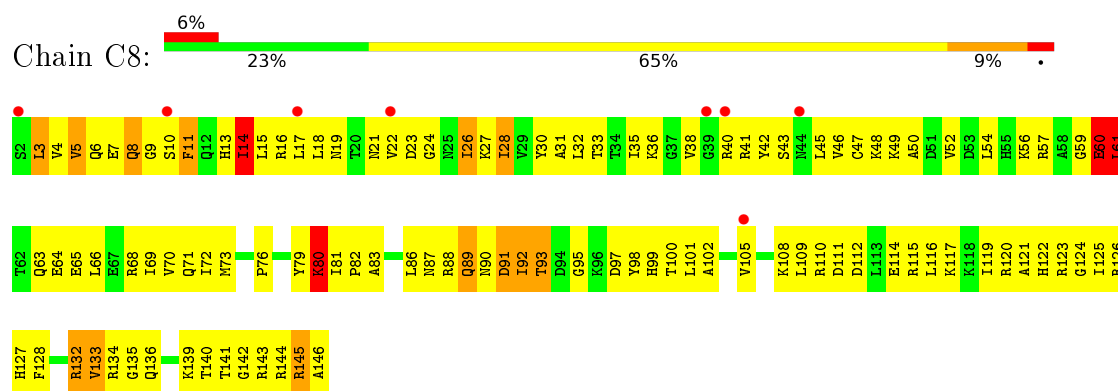
- Molecule 18: 40S ribosomal protein S16-A



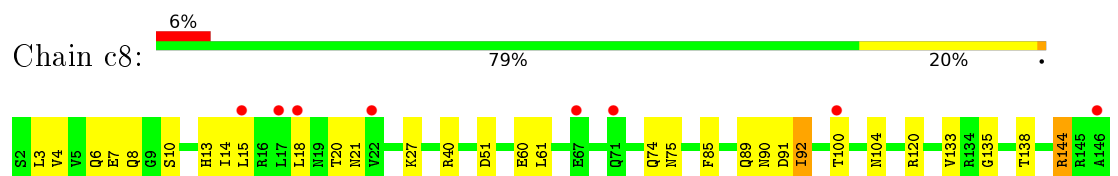
- Molecule 19: ES17



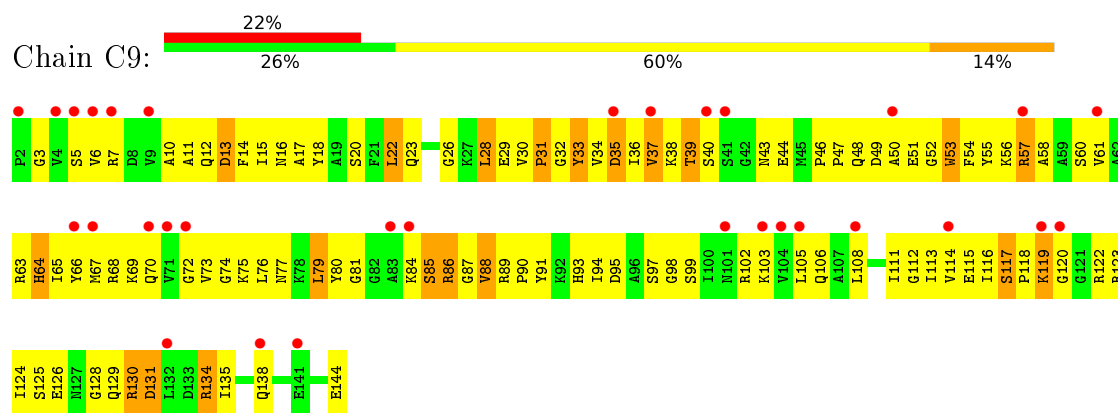
- Molecule 20: 40S ribosomal protein S18-A



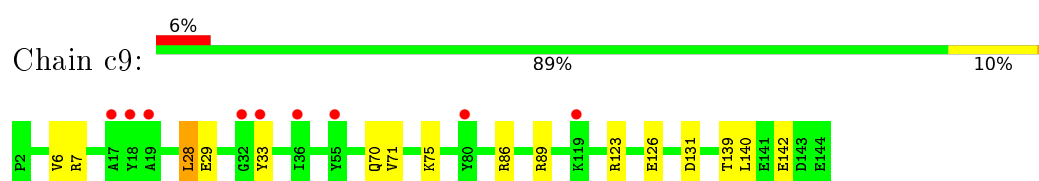
- Molecule 20: 40S ribosomal protein S18-A



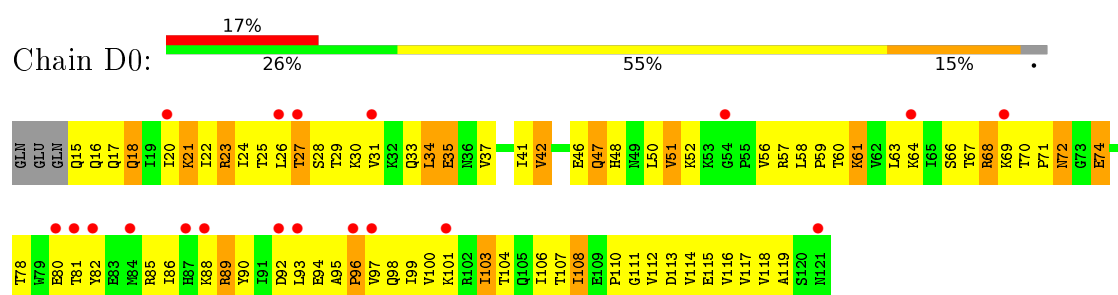
- Molecule 21: 40S ribosomal protein S19-A



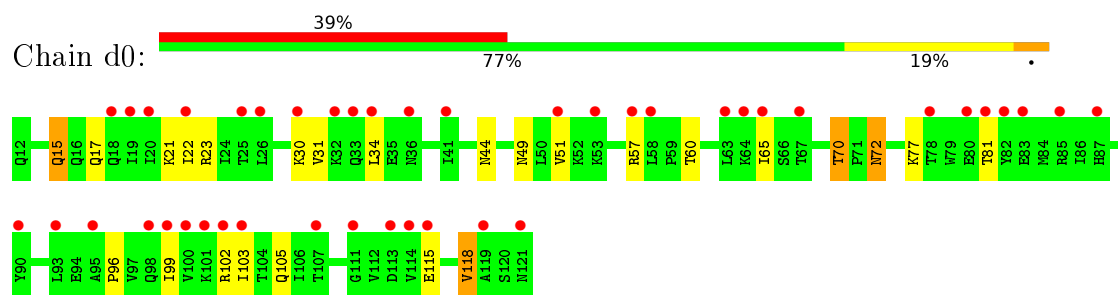
- Molecule 21: 40S ribosomal protein S19-A



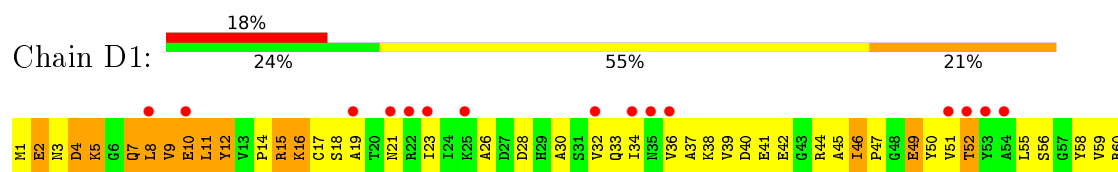
- Molecule 22: 40S ribosomal protein S20

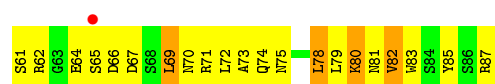


- Molecule 22: 40S ribosomal protein S20

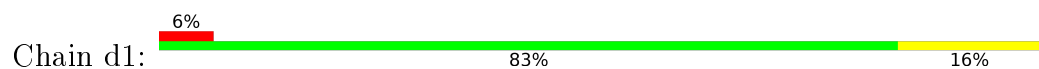


- Molecule 23: 40S ribosomal protein S21-A

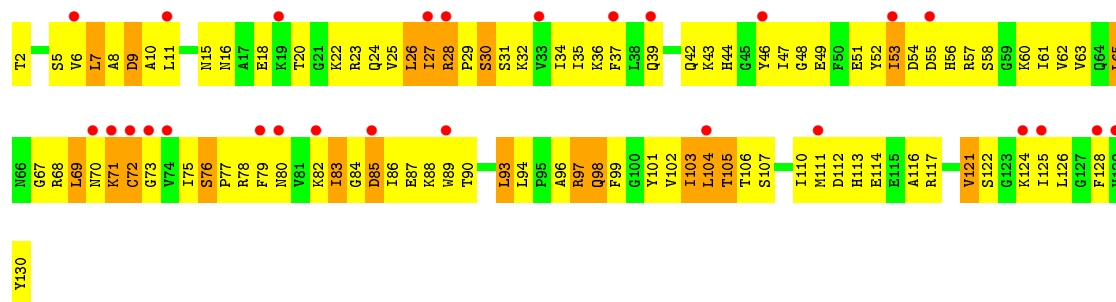




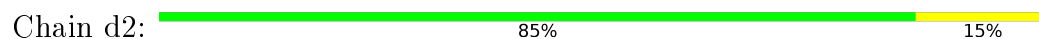
- Molecule 23: 40S ribosomal protein S21-A



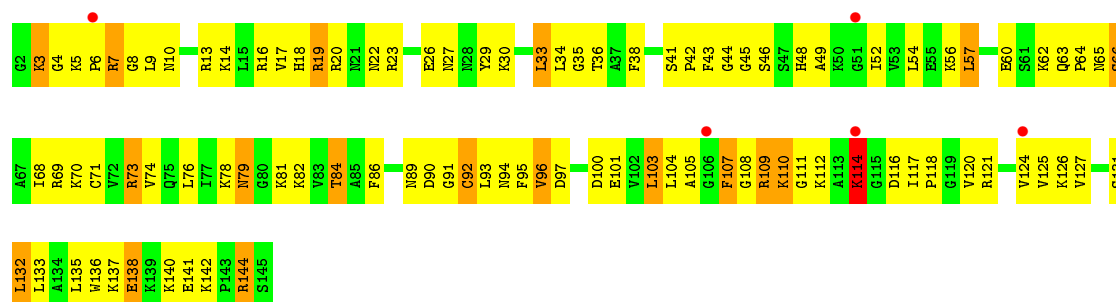
- Molecule 24: 40S ribosomal protein S22-A



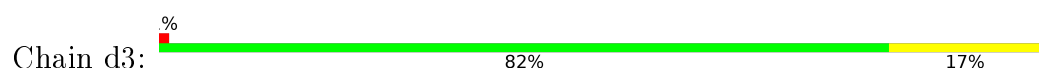
- Molecule 24: 40S ribosomal protein S22-A



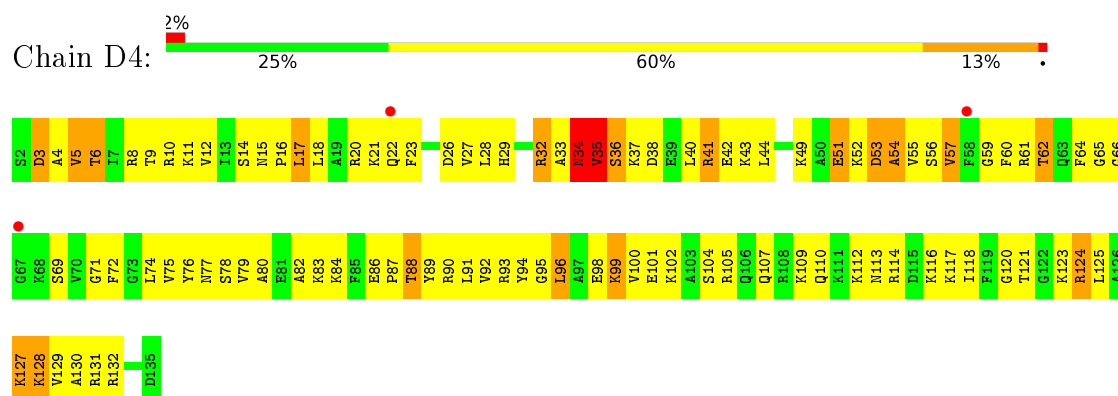
- Molecule 25: 40S ribosomal protein S23-A



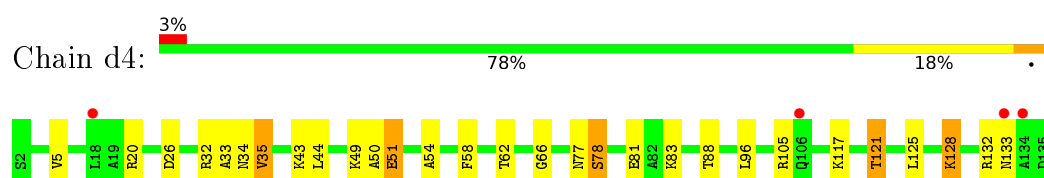
- Molecule 25: 40S ribosomal protein S23-A



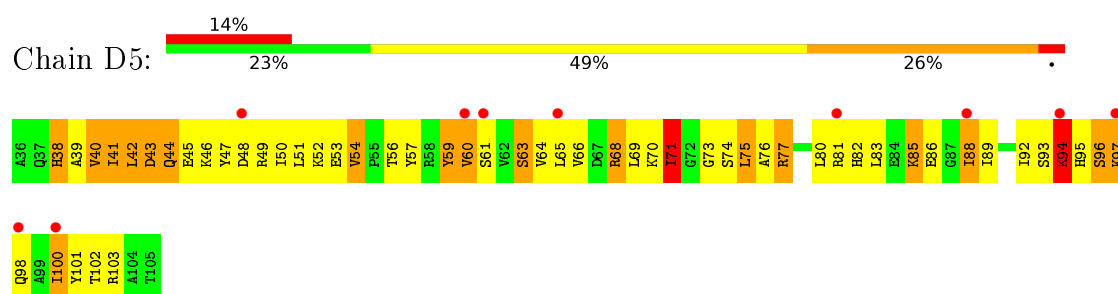
- Molecule 26: 40S ribosomal protein S24-A



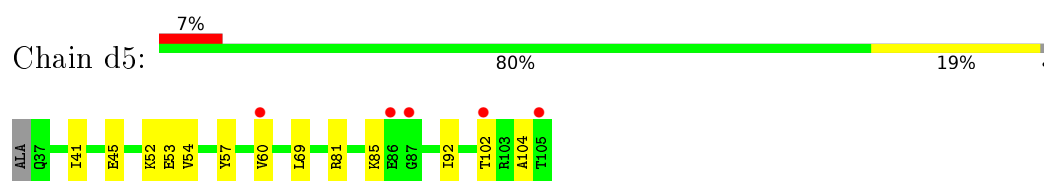
- Molecule 26: 40S ribosomal protein S24-A



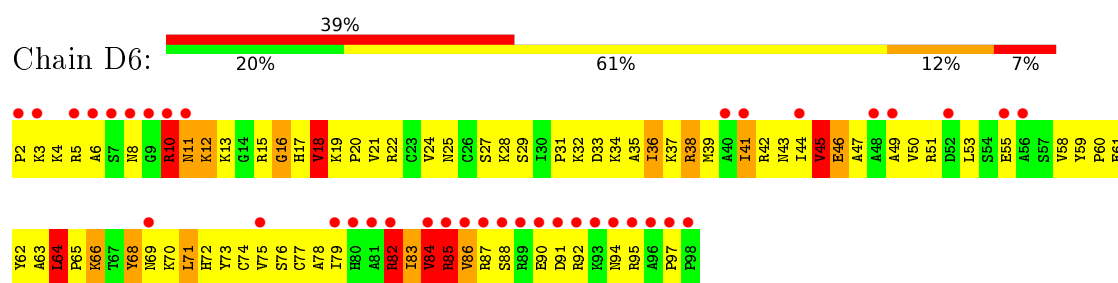
- Molecule 27: 40S ribosomal protein S25-A



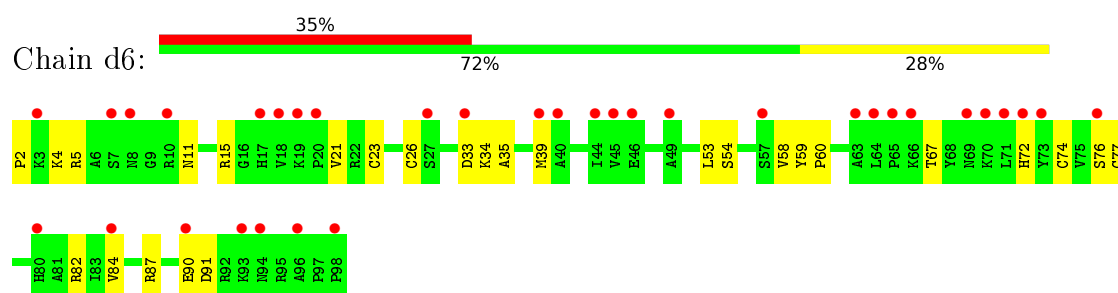
- Molecule 27: 40S ribosomal protein S25-A



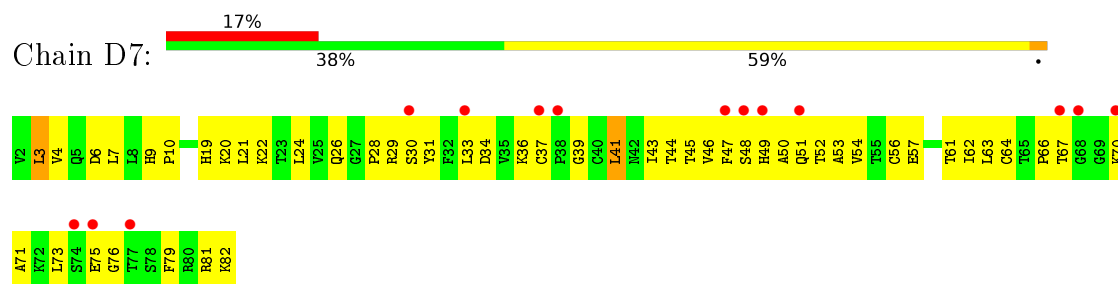
- Molecule 28: 40S ribosomal protein S26-B



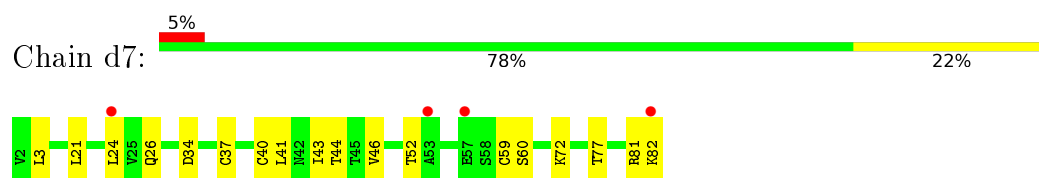
- Molecule 28: 40S ribosomal protein S26-B



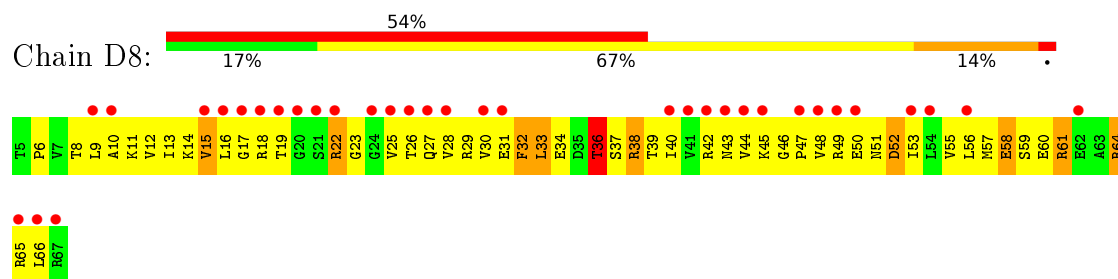
- Molecule 29: 40S ribosomal protein S27-A



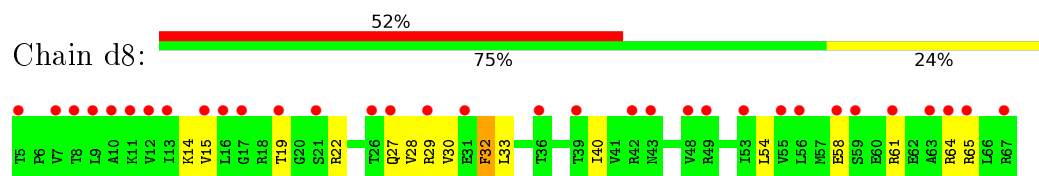
- Molecule 29: 40S ribosomal protein S27-A



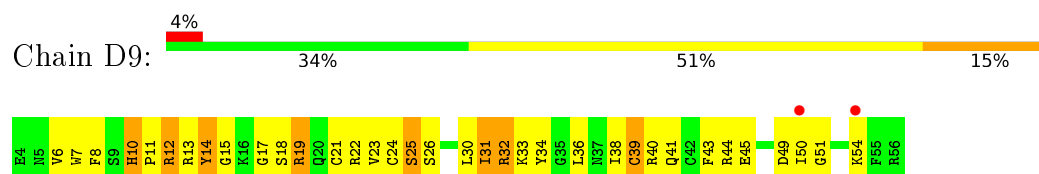
- Molecule 30: 40S ribosomal protein S28-A



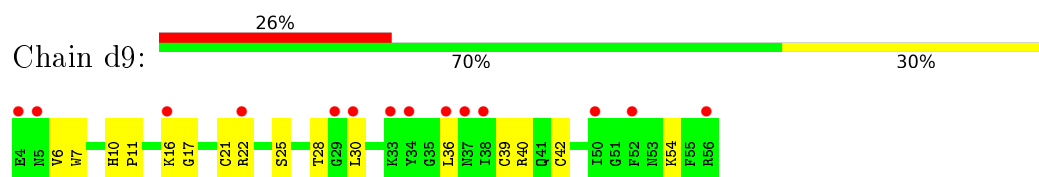
- Molecule 30: 40S ribosomal protein S28-A



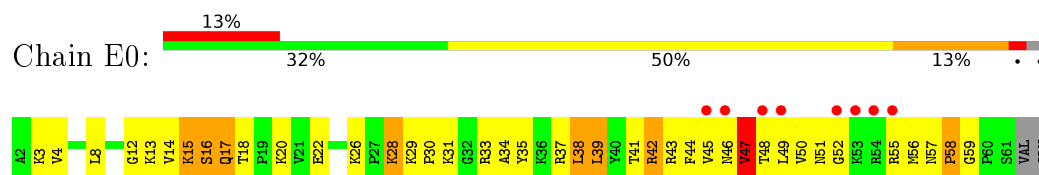
- Molecule 31: 40S ribosomal protein S29-A



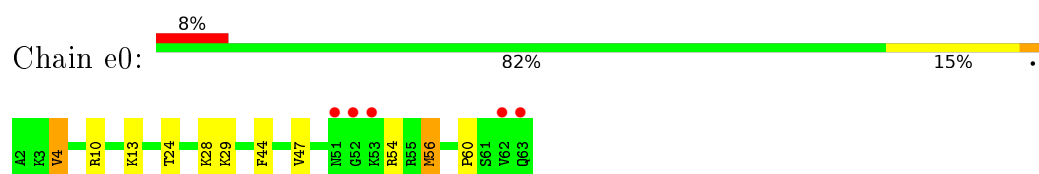
- Molecule 31: 40S ribosomal protein S29-A



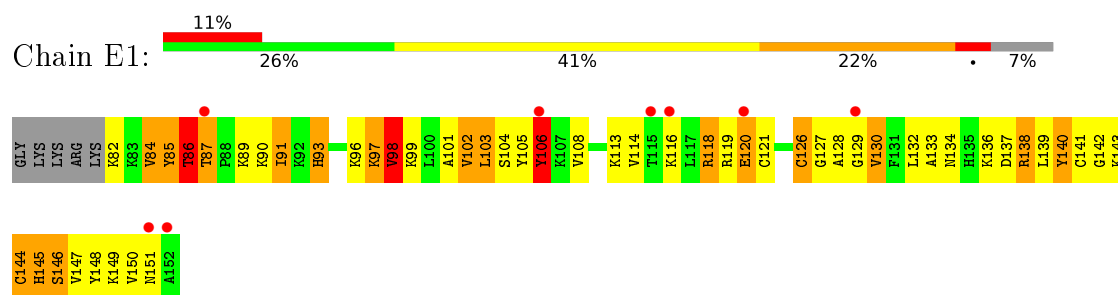
- Molecule 32: 40S ribosomal protein S30-A



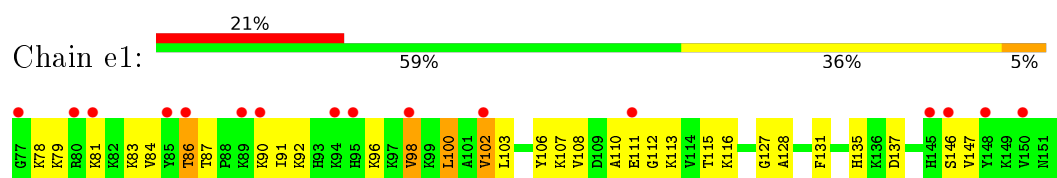
- Molecule 32: 40S ribosomal protein S30-A



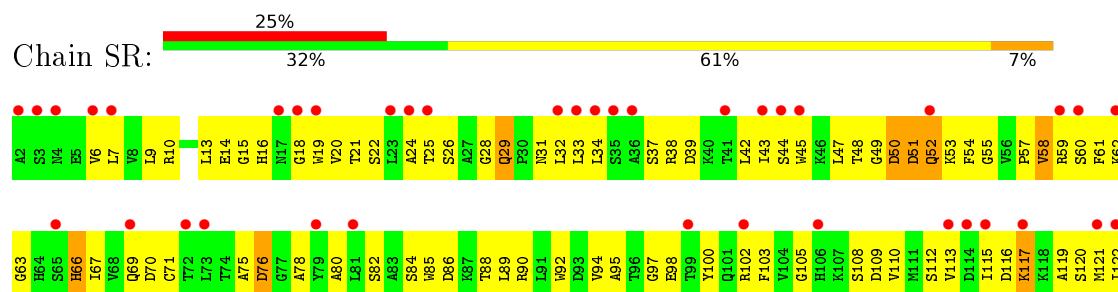
- Molecule 33: Ubiquitin-40S ribosomal protein S31

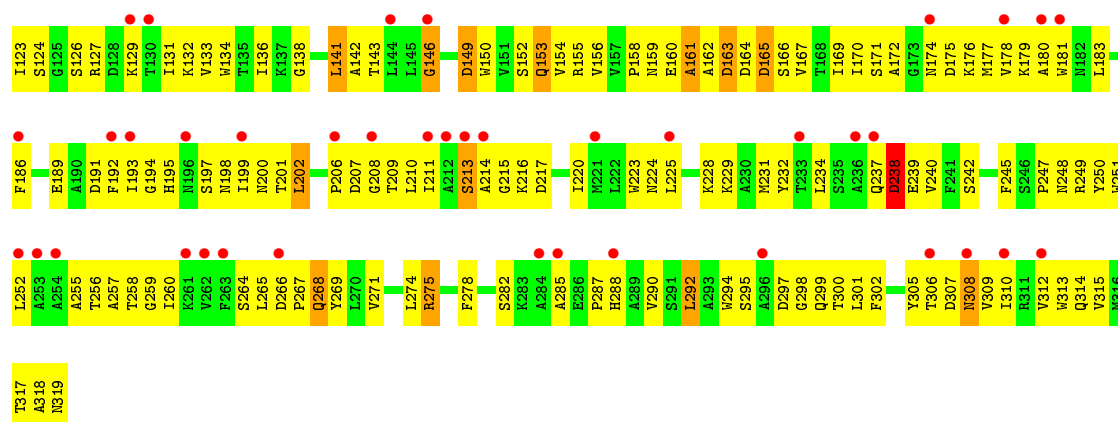


- Molecule 33: Ubiquitin-40S ribosomal protein S31

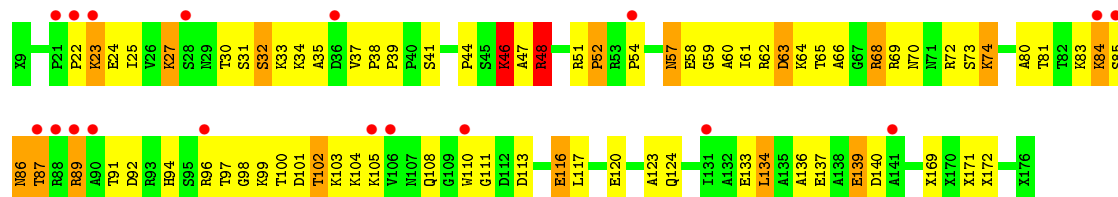


- Molecule 34: Guanine nucleotide-binding protein subunit beta-like protein

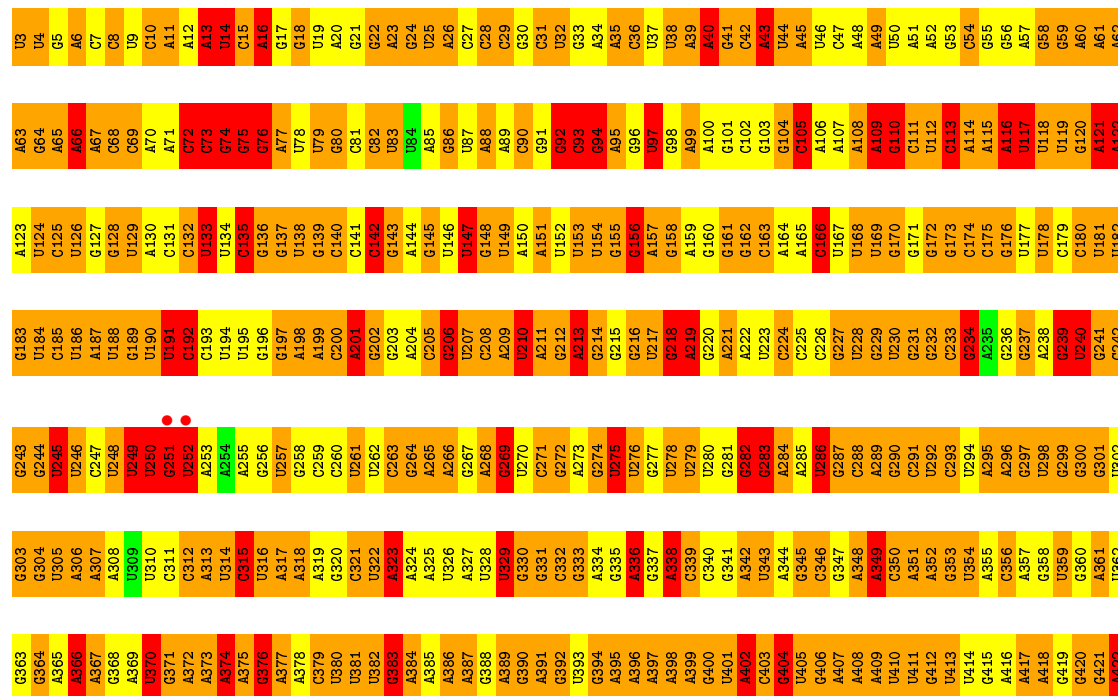




- Molecule 35: Ribosome-bound protein Stm1,Suppressor protein STM1,Ribosome-bound protein Stm1



- Molecule 36: 25S ribosomal RNA



U1378	U1379	G1318	G1319	U1258	C1186	A1136	C1076	C1016	U956	A896	A836	U776	A716	C596	U536	A423
G1380	G1381	C1320	C1321	A1259	A1197	C1137	U1077	C1017	C957	U897	A837	U777	C717	G597	A537	G424
A1381	G1382	C1320	C1321	A1260	C1198	U1138	U1078	G1018	C958	U898	G838	U778	G718	C598	G538	G425
G1383	U1322	G1262	G1263	G1261	A1200	G1139	U1079	G1019	C959	U899	C839	G779	U719	C599	C539	C427
G1383	G1383	C1201	C1201	A1263	G1201	G1140	A1080	G1020	U960	G900	C840	A780	A720	G600	U540	A428
U1384	U1384	A1202	A1202	G1264	G1202	C1141	U081	G1021	C961	G901	A841	G781	G721	U601	U541	U628
C1385	U1325	G1264	G1264	G1265	A1203	G1142	U082	U1022	A962	G902	G842	U782	G722	A602	C542	U629
A1386	A1326	U1266	U1266	G1266	A1204	U1143	G083	C1023	G963	U903	A843	A783	U723	A603	C543	U430
G1387	C1327	U1267	U1267	G1267	A1205	G1144	A1084	G1024	G964	A904	G844	A784	U724	G604	C544	U431
C1388	C1328	G1268	G1206	C1268	A1206	G1145	A1085	A1026	U965	U905	G845	A785	G725	U605	U545	A432
G1389	A1329	U1269	G1207	U1269	A1207	G1147	A1087	A1027	U966	A906	A846	A786	G726	C606	C546	A433
A1390	A1330	G1208	U1208	G1208	A1208	G1148	U088	U1028	G968	G908	A848	G788	G728	A608	G548	C435
C1391	U1331	G1209	G1209	A1271	G1209	G1149	G089	G1029	C969	G909	C849	A789	C729	G609	U549	A436
A1392	A1332	U1210	U1210	C1272	A1210	G1150	G090	A1030	U970	G910	U850	U790	G730	G610	A550	G437
C1393	C1333	A1273	A1211	A1273	U1211	U1151	A1091	C1031	G971	C911	C851	A791	U731	A611	A551	A438
A1394	U1334	A1274	A1212	A1274	A1212	G1152	C1092	C1032	A972	G912	U852	G792	G732	U612	U552	C439
G1395	C1335	C1275	G1213	C1275	A1213	A1153	A1093	U1033	A973	A913	G853	G793	G733	G613	U553	A440
C1396	U1336	U1276	U1214	U1276	U1214	A1154	U094	U1034	G974	A914	G854	U794	C734	C614	A554	G494
C1397	A1337	G1277	U1215	G1277	U1215	C1155	U095	G1035	C975	A915	U855	G795	A735	U615	U555	G495
U1398	C1338	C1216	C1216	C1216	C1216	C1156	U096	A1036	G976	A916	G856	U796	G737	G616	U556	C496
A1399	C1339	G1279	A1217	C1279	U1217	G1157	G097	C1037	C977	A917	G857	U797	G737	G617	A557	C497
G1400	G1340	C1280	U1218	C1280	U1218	A1158	A1098	C1038	G978	C918	A858	G798	G738	C618	U558	A498
A1401	U1341	G1281	C1219	G1281	U1219	A1159	A1099	U1039	U979	U919	G859	G799	G739	A619	A559	G499
C1402	C1342	G1282	U1220	G1282	U1220	C1160	A1100	A1040	U980	A920	G860	U800	G740	U620	C560	C500
G1403	A1343	A1221	A1221	A1221	A1221	G1161	G1101	U1041	U981	A921	C861	A801	U741	A621	C561	A501
U1404	G1344	G1222	G1222	G1222	G1222	U1162	A1102	U1042	C982	U922	U862	C902	G742	A622	C562	U502
G1405	G1345	C1223	A1223	G1223	A1223	A1163	A1103	U1043	A983	C923	C863	C903	G743	U623	U563	C503
A1406	G1346	C1224	G1224	G1224	G1224	G1164	G1104	U1044	G984	A924	G864	C904	A744	G624	C564	A504
A1407	U1347	A1225	A1225	A1225	A1225	A1165	A1105	U1045	U985	A925	U865	G905	C745	G625	U565	G505
G1408	U1348	G1226	G1226	G1226	G1226	G1166	G1106	A1046	U986	A926	A866	A806	A746	U626	C566	U506
G1409	G1349	C1227	C1227	C1227	C1227	U1167	U1107	A1047	U987	C927	G867	A807	A747	U627	C567	U507
U1410	A1350	C1228	U1228	C1228	U1228	U1168	U1108	A1048	U988	C928	C868	A808	A748	A628	C568	U508
C1411	U1351	A1291	G1229	A1291	G1229	A1169	U1109	C1049	U989	A929	G869	G909	C749	U629	A569	U509
G1412	A1352	C1230	G1230	C1230	G1230	A1170	U1110	U1050	U990	U930	G870	A810	G750	A630	A570	G510
G1413	U1353	U1293	A1231	U1293	G1231	G1171	U1111	U1051	G991	C931	U871	U811	A751	U631	U571	G511
G1414	G1354	C1232	G1232	G1232	G1232	G1172	A1112	U1052	A992	U932	U872	G812	C752	G632	A572	U512
U1415	A1355	G1233	G1233	G1233	G1233	U1173	G1113	A1053	G993	A933	C873	G813	C753	C633	C573	G513
C1416	U1356	G1234	U1234	C1234	G1234	G1174	U1114	A1054	G994	G934	U874	U814	G754	C634	U574	G514
G1417	C1357	U1235	U1235	C1235	U1235	C1175	G1115	A1055	U995	U935	G875	G815	A755	G635	C575	C515
A1418	C1358	G1236	G1236	C1236	G1236	C1176	U1116	U1056	A996	A936	A876	A816	C756	C636	C576	A516
A1419	C1359	G1237	G1237	G1237	G1237	G1177	G1117	A1057	A997	G937	C877	A817	C757	C637	C577	G517
C1420	C1360	C1238	C1238	G1300	C1238	G1178	C1118	U1058	A998	C938	G878	G818	C758	G638	A578	G518
G1421	U1361	A1301	A1239	A1301	A1239	G1179	A1119	U1059	G999	U939	U879	U819	U759	C639	C579	A519
G1422	G1362	A1302	A1240	A1302	A1240	A1180	A1120	U1060	G999	G940	G880	A820	G760	U640	C580	U520
C1423	A1363	A1303	U1241	A1303	U1241	U1181	U1121	A1061	G1001	G941	C881	U821	A761	C641	U581	A521
C1424	C1364	A1304	G1242	A1304	G1242	A1182	U1122	A1062	A1002	U942	A882	G822	C702	U642	G582	A522
U1425	G1365	G1243	G1243	G1243	G1243	C1183	U1123	G1063	A1003	U943	A883	C823	G703	U643	G583	A523
C1426	A1366	G1305	A1244	G1305	A1244	A1184	U1124	A1064	U1004	C944	A894	C824	U704	G644	G584	U524
U1427	G1367	G1307	A1245	G1307	A1245	C1185	U1125	A1065	G1005	C945	U885	U825	A705	A645	A585	C525
A1428	U1368	A1308	G1246	A1308	G1246	G1186	G1126	G1066	A1006	U946	C886	G826	U766	A646	C586	C526
G1429	A1369	U1309	U1247	U1309	U1247	C1187	G1127	U1067	U1007	G947	G887	A827	U767	A647	U587	A527
U1430	G1370	G1310	C1248	G1310	C1248	U1188	U1128	C1068	U1008	C948	A888	A828	C768	C648	G588	U528
G1431	G1371	G1311	G1249	G1311	G1249	C1189	A1129	C1069	A1009	G949	U889	U829	G769	A649	A589	A529
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G1434	G1374	C1254	C1254	C1254	C1254	C1192	C1132	G1072	G1012	A952	U892	G832	U772	G652	A592	A532
A1435	G1375	G1255	G1255	G1255	G1255	A1193	A1133	U1073	G953	G893	C893	G833	G773	A653	C593	A533
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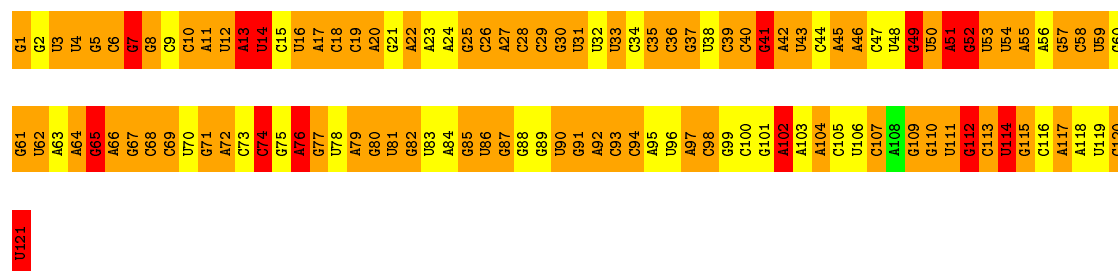


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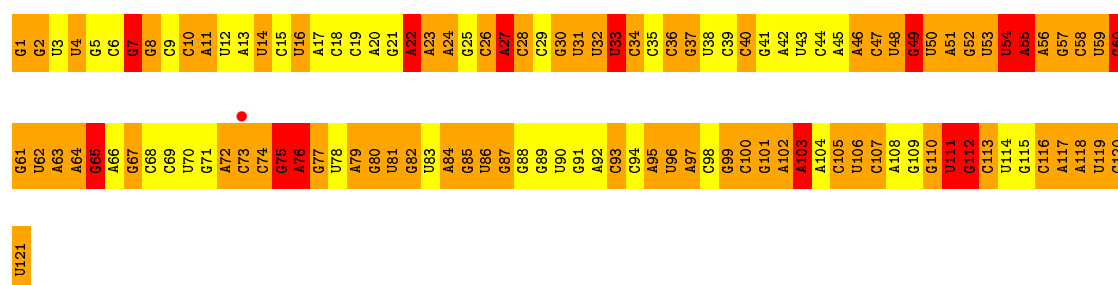
● Molecule 37: 5S ribosomal RNA

Chain 3:  28% 60% 12%



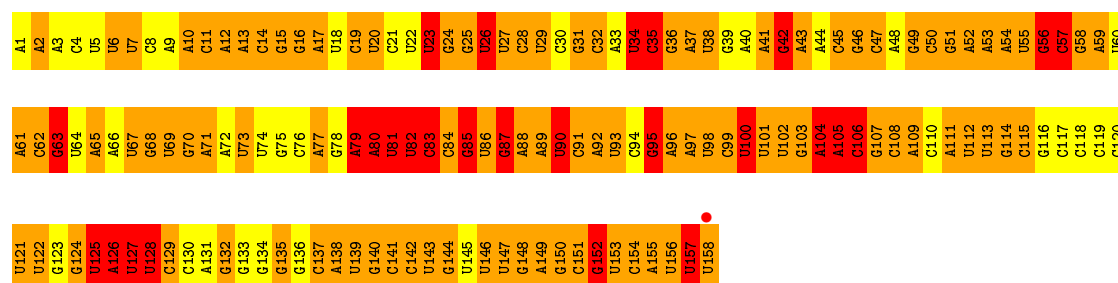
• Molecule 37: 5S ribosomal RNA

Chain 7:  34% 55% 12%



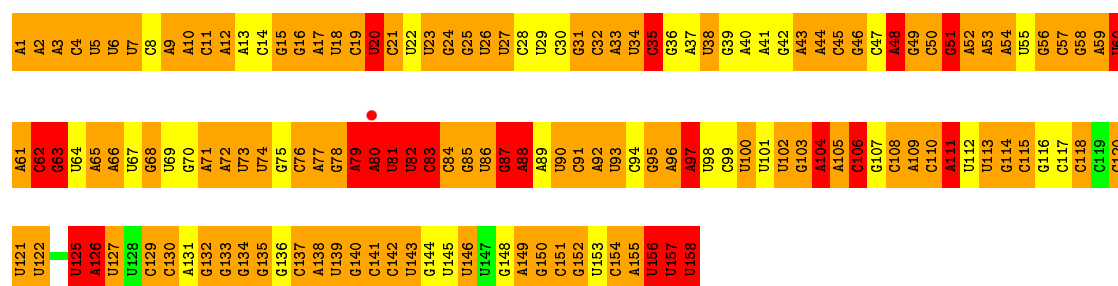
• Molecule 38: 5.8S ribosomal RNA

Chain 4:  23% 59% 17%

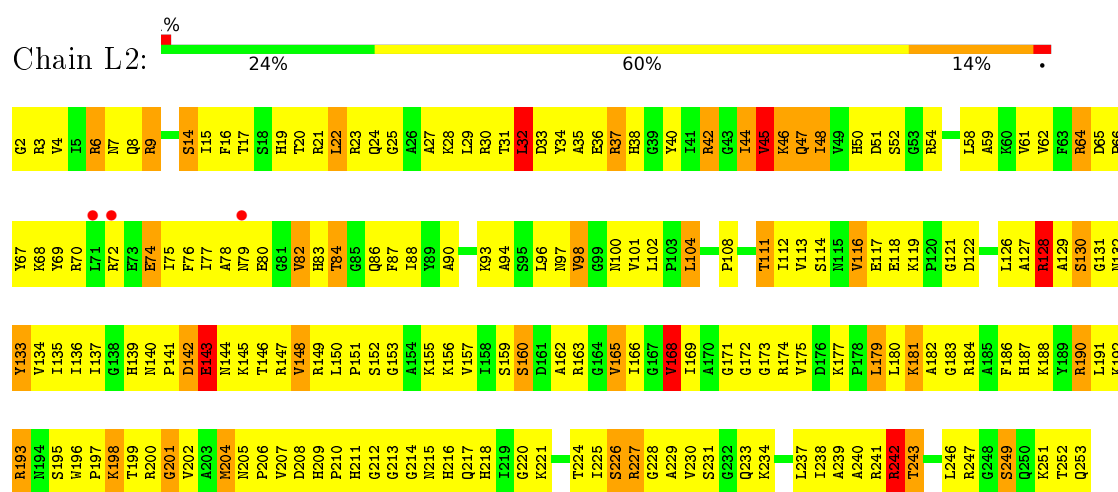


• Molecule 38: 5.8S ribosomal RNA

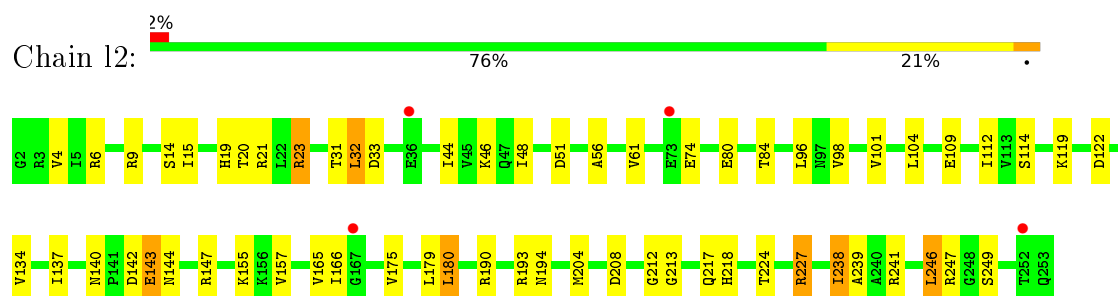
Chain 8:  22% 60% 15%



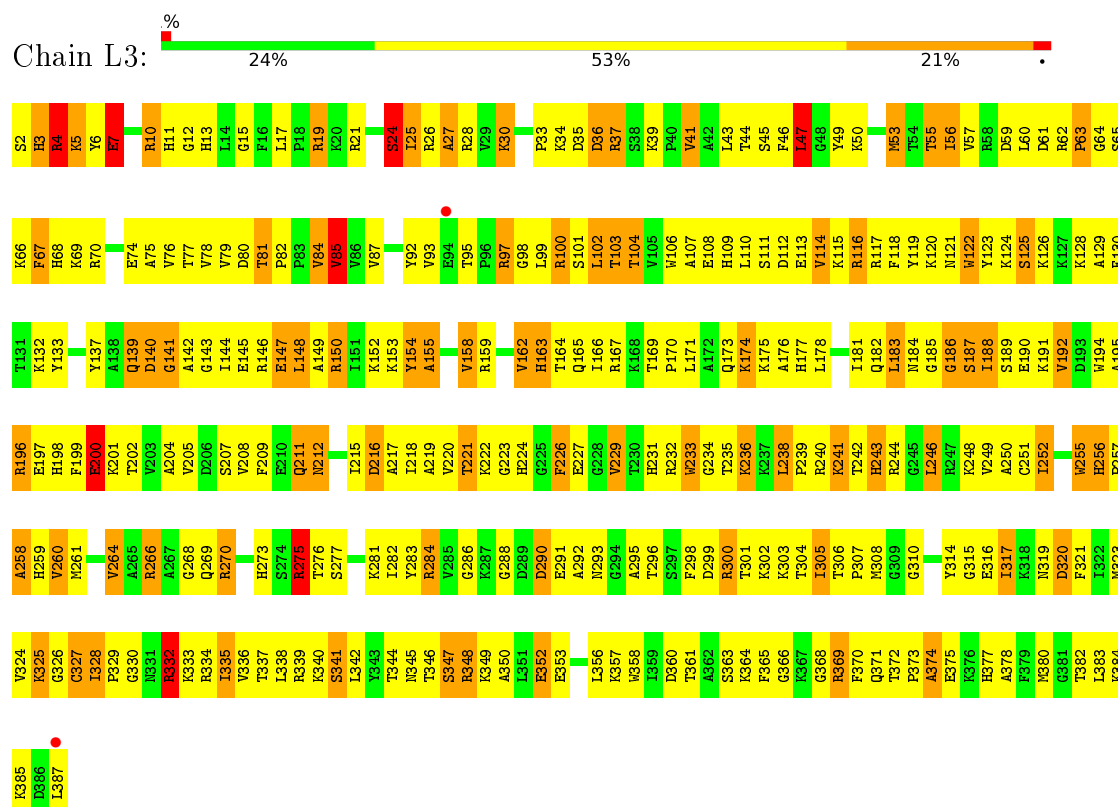
• Molecule 39: 60S ribosomal protein L2-A



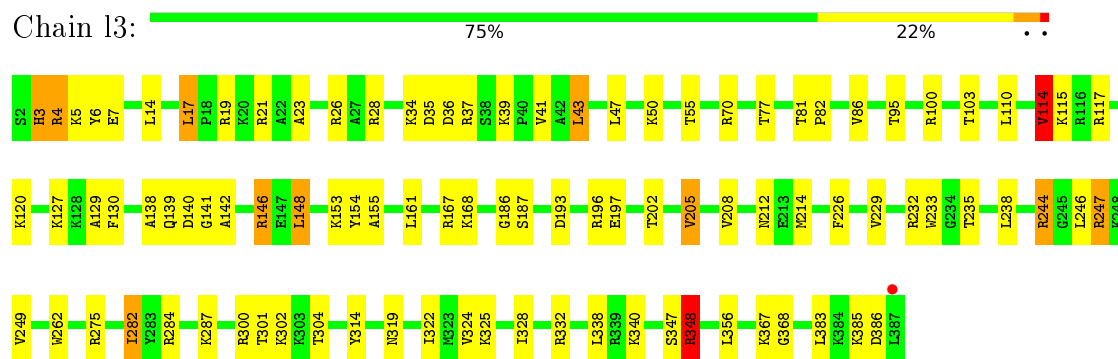
- Molecule 39: 60S ribosomal protein L2-A



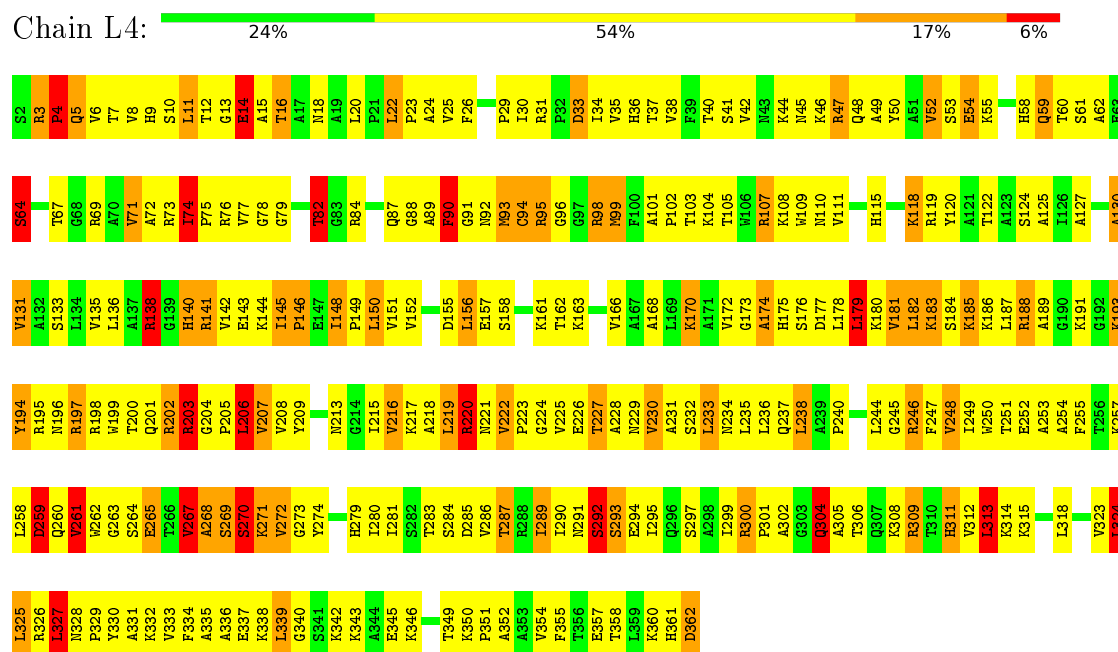
- Molecule 40: 60S ribosomal protein L3



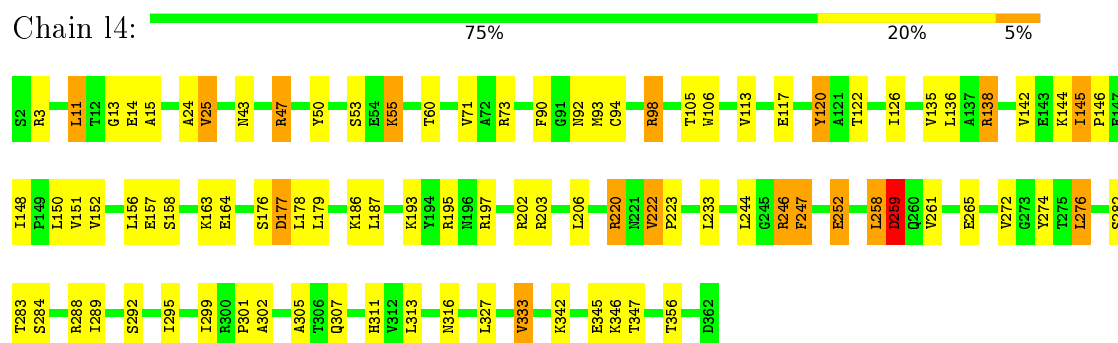
- Molecule 40: 60S ribosomal protein L3



• Molecule 41: 60S ribosomal protein L4-A

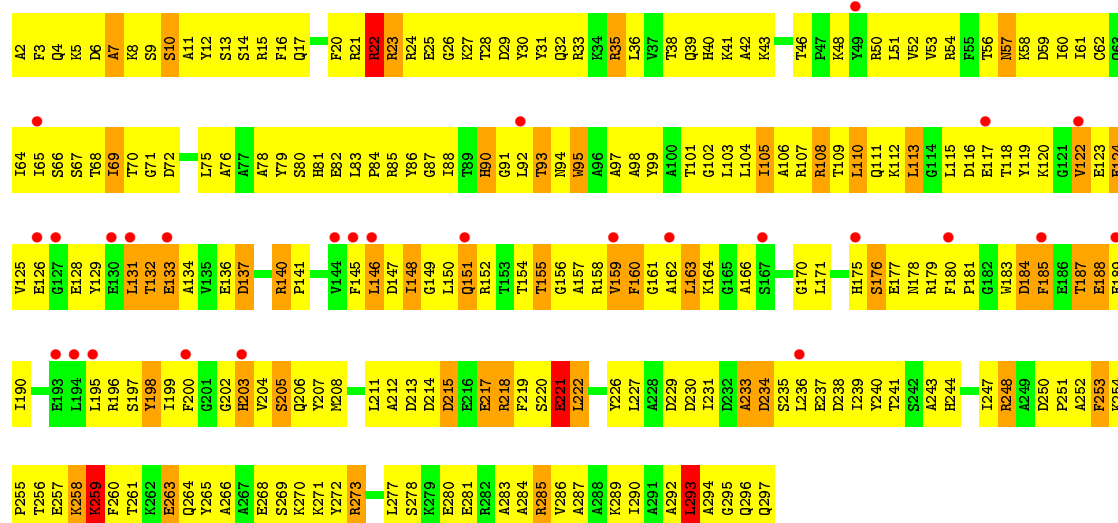


• Molecule 41: 60S ribosomal protein L4-A

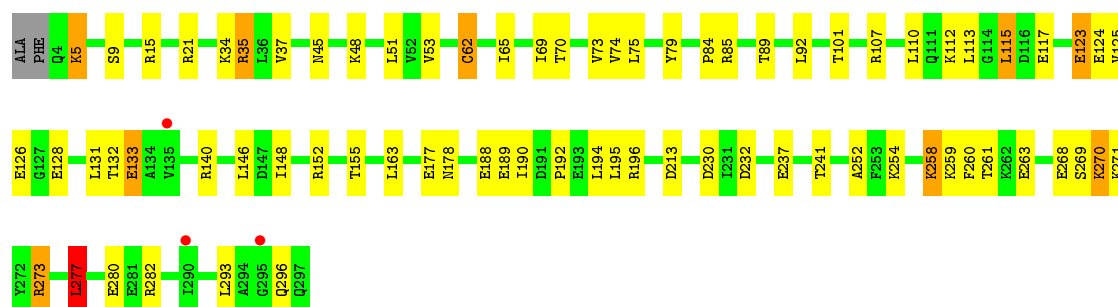
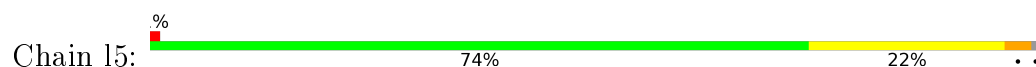


• Molecule 42: 60S ribosomal protein L5

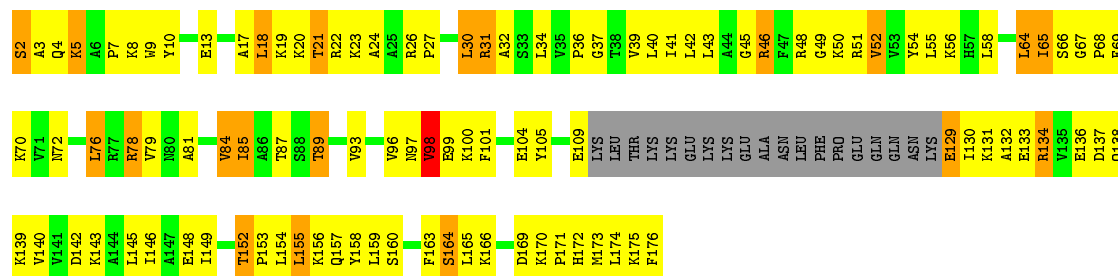




• Molecule 42: 60S ribosomal protein L5



• Molecule 43: 60S ribosomal protein L6-A



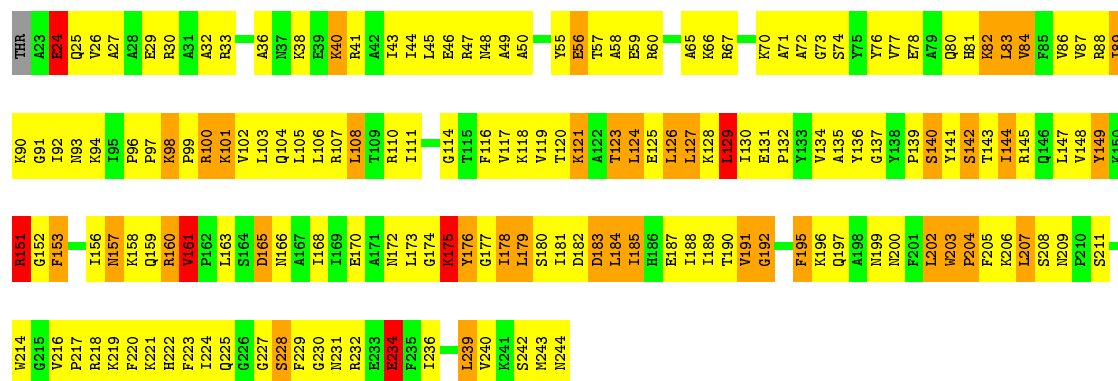
• Molecule 43: 60S ribosomal protein L6-A





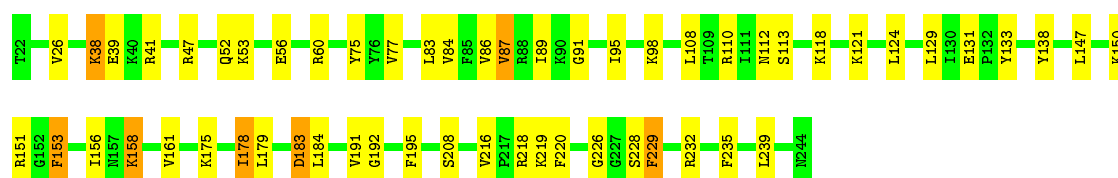
• Molecule 44: 60S ribosomal protein L7-A

Chain L7: 24% 56% 17% .



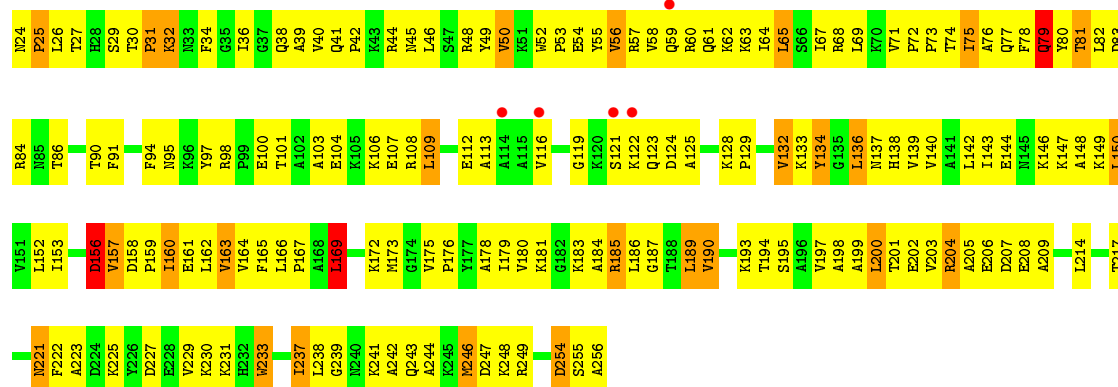
• Molecule 44: 60S ribosomal protein L7-A

Chain 17: 75% 22% .



• Molecule 45: 60S ribosomal protein L8-A

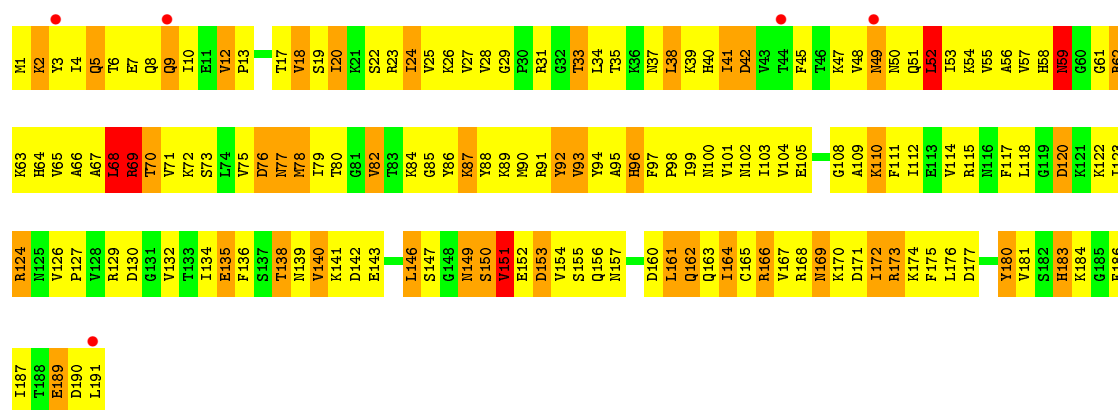
Chain L8: 2% 29% 58% 11% .



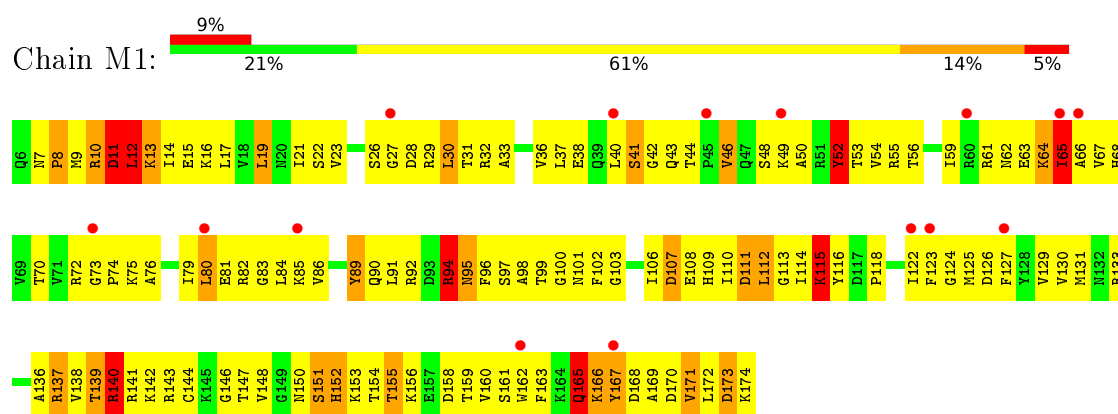
• Molecule 46: 60S ribosomal protein L9-A

Chain L9: 3% 19% 57% 22% .

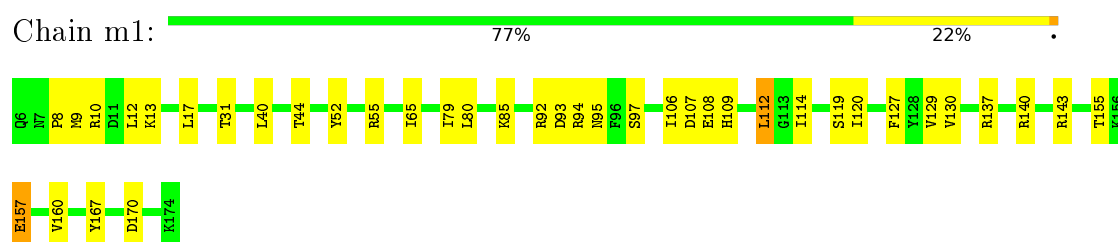




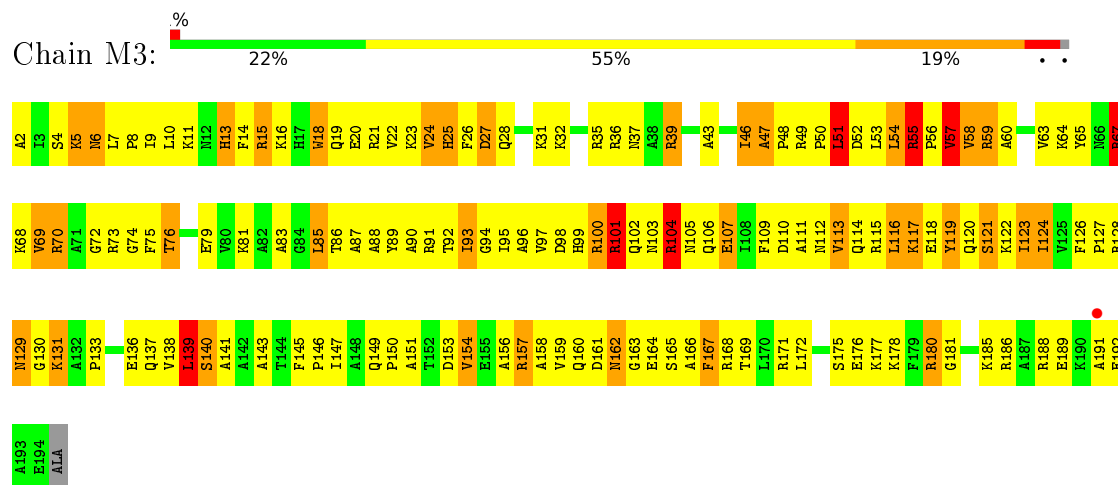




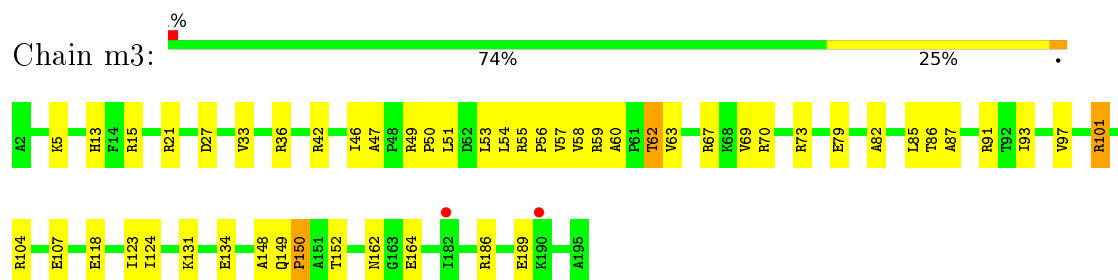
- Molecule 48: 60S ribosomal protein L11-B



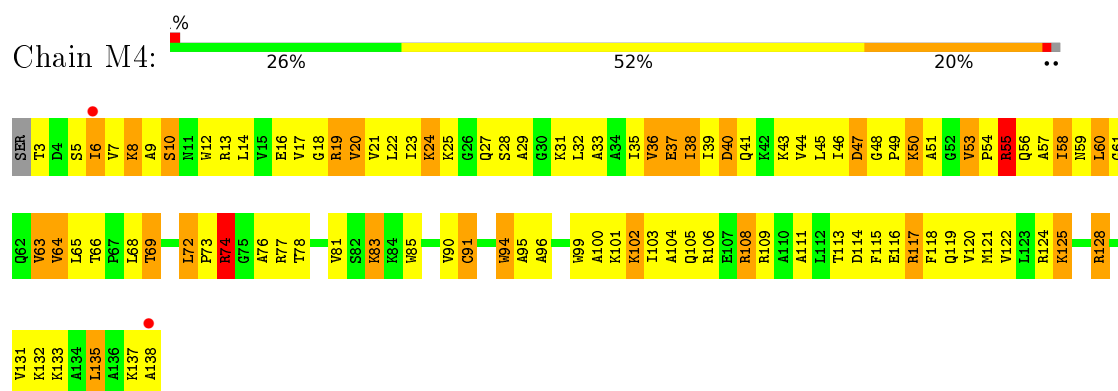
- Molecule 49: 60S ribosomal protein L13-A



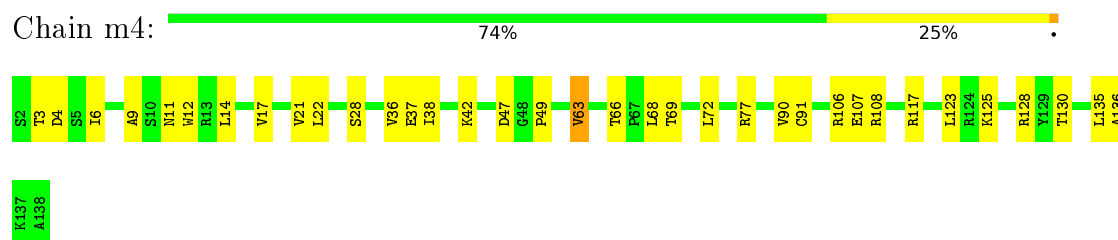
- Molecule 49: 60S ribosomal protein L13-A



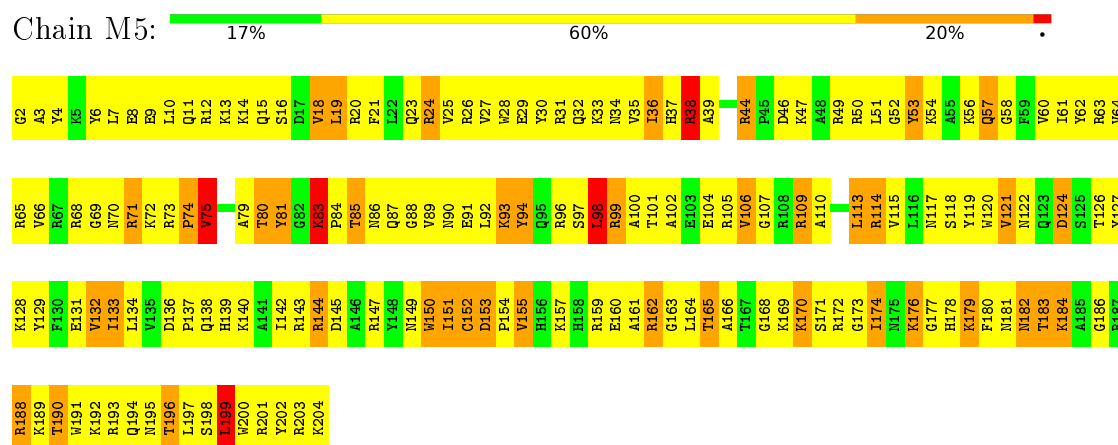
- Molecule 50: 60S ribosomal protein L14-A



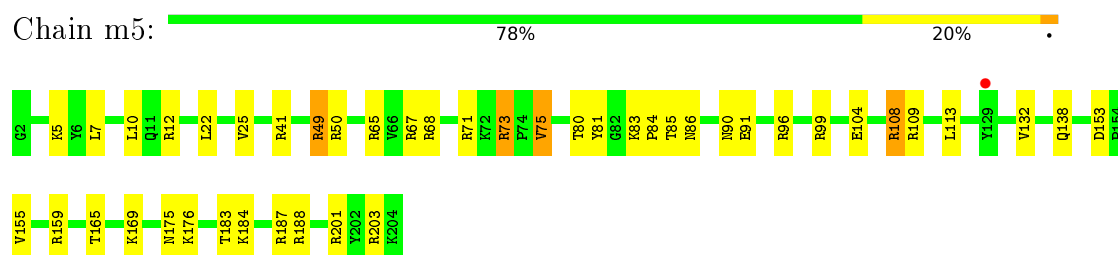
- Molecule 50: 60S ribosomal protein L14-A



- Molecule 51: 60S ribosomal protein L15-A

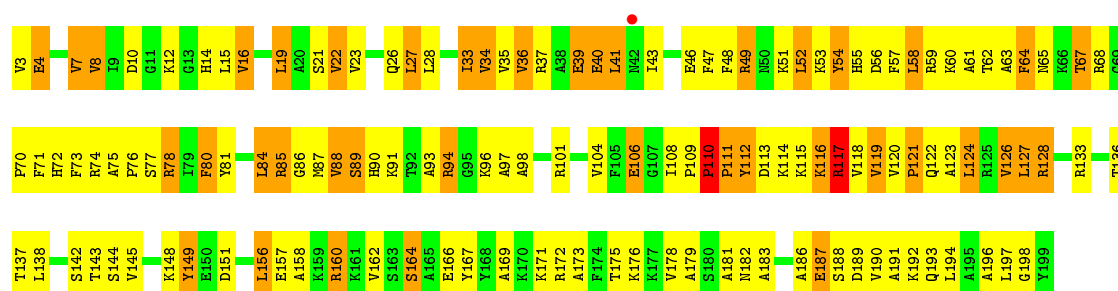


- Molecule 51: 60S ribosomal protein L15-A

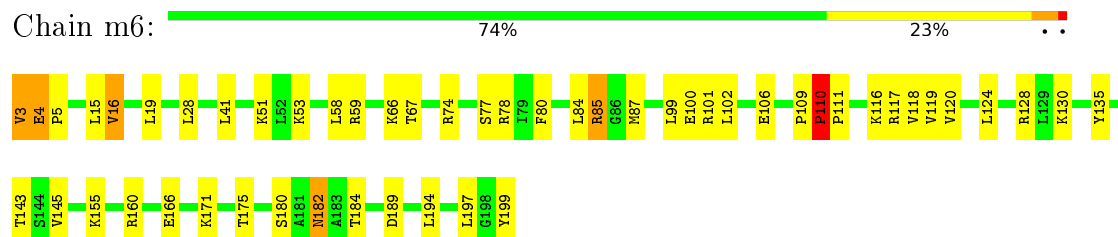


- Molecule 52: 60S ribosomal protein L16-A

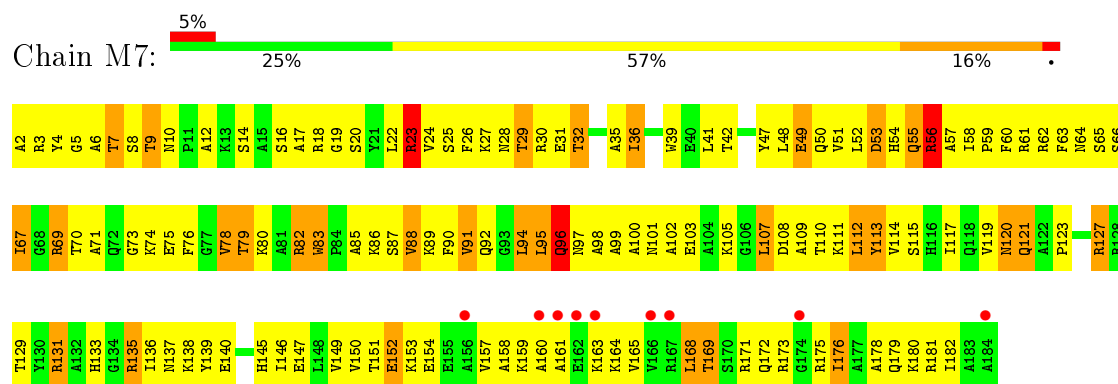




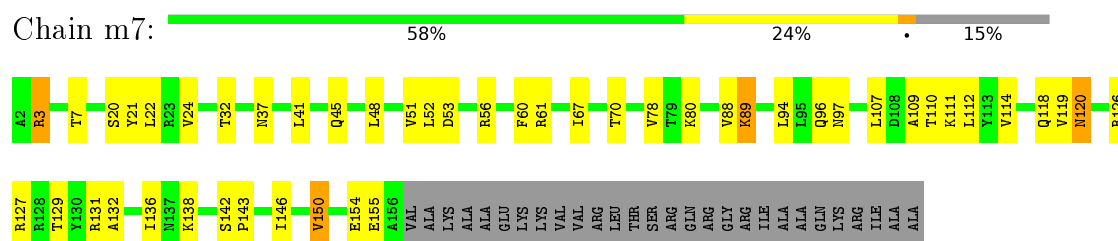
• Molecule 52: 60S ribosomal protein L16-A



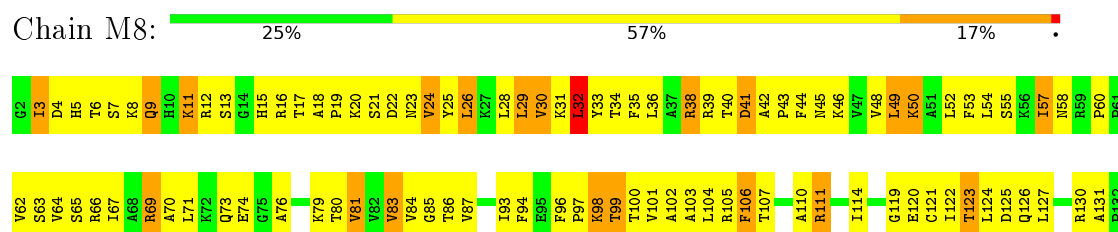
• Molecule 53: 60S ribosomal protein L17-A



• Molecule 53: 60S ribosomal protein L17-A



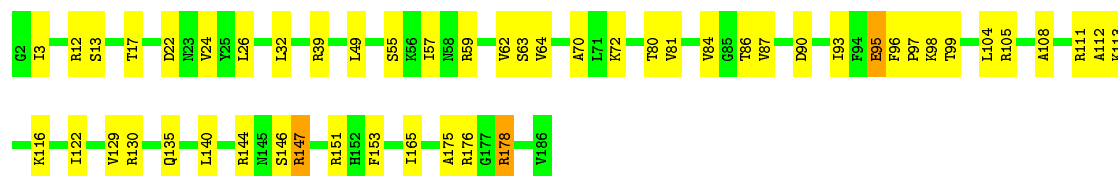
• Molecule 54: 60S ribosomal protein L18-A





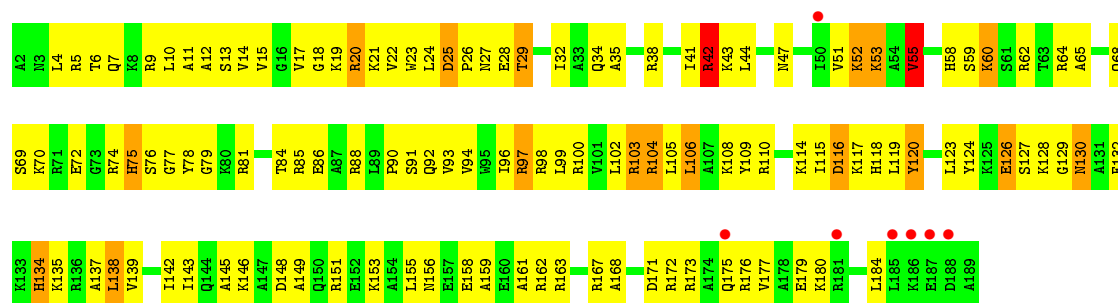
• Molecule 54: 60S ribosomal protein L18-A

Chain m8: 72% 26%



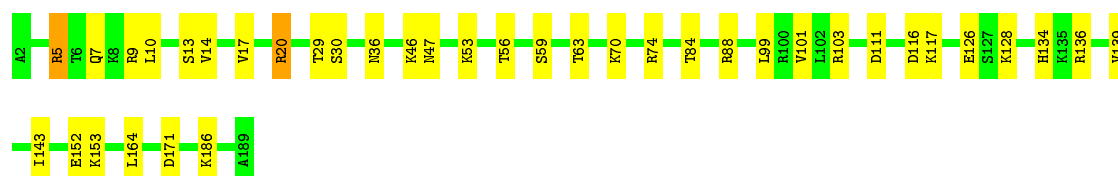
• Molecule 55: 60S ribosomal protein L19-A

Chain M9: 4% 35% 55% 9%



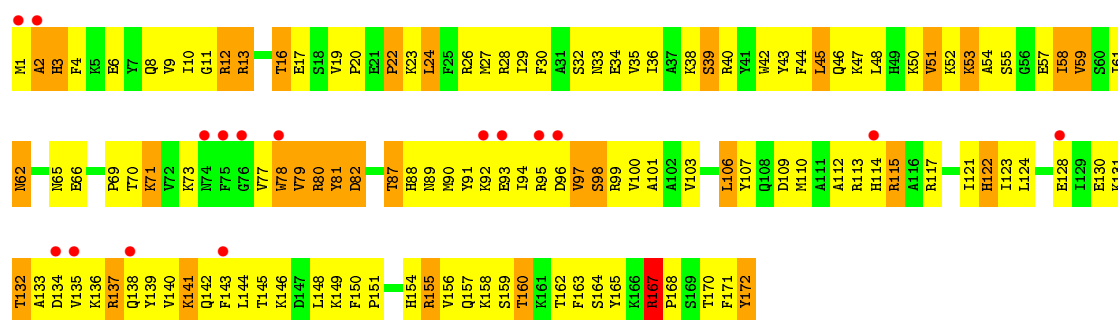
• Molecule 55: 60S ribosomal protein L19-A

Chain m9: 80% 19%

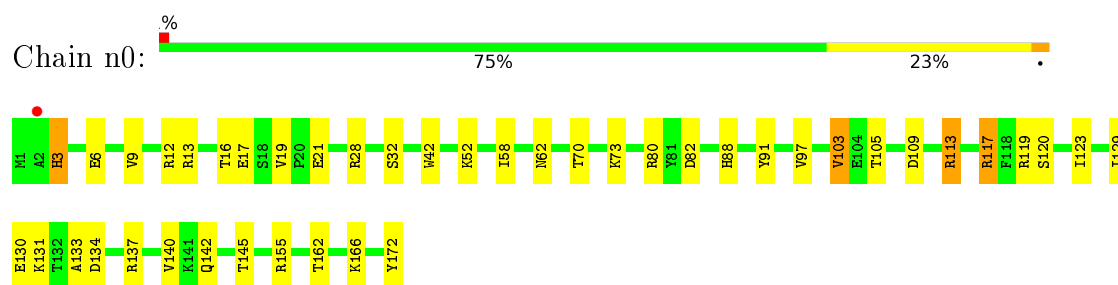


• Molecule 56: 60S ribosomal protein L20-A

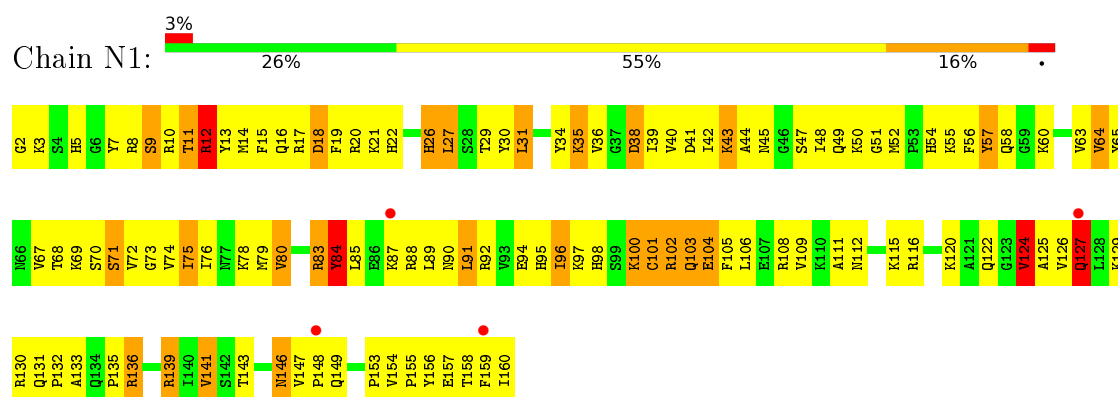
Chain N0: 9% 26% 55% 19%



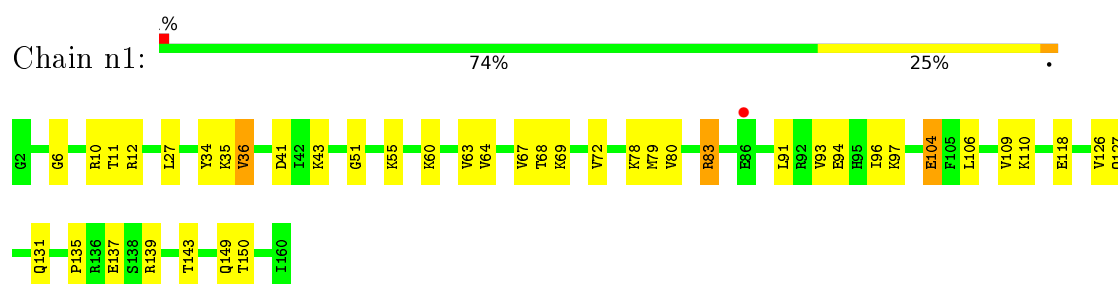
• Molecule 56: 60S ribosomal protein L20-A



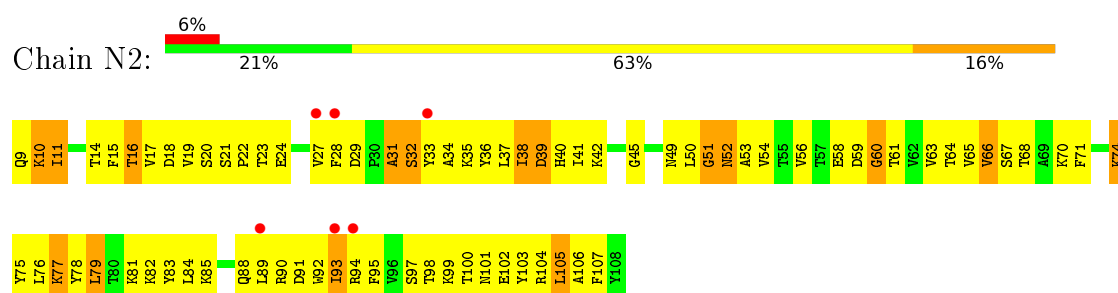
- Molecule 57: 60S ribosomal protein L21-A



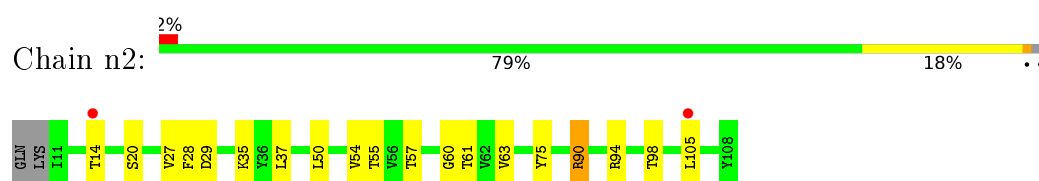
- Molecule 57: 60S ribosomal protein L21-A



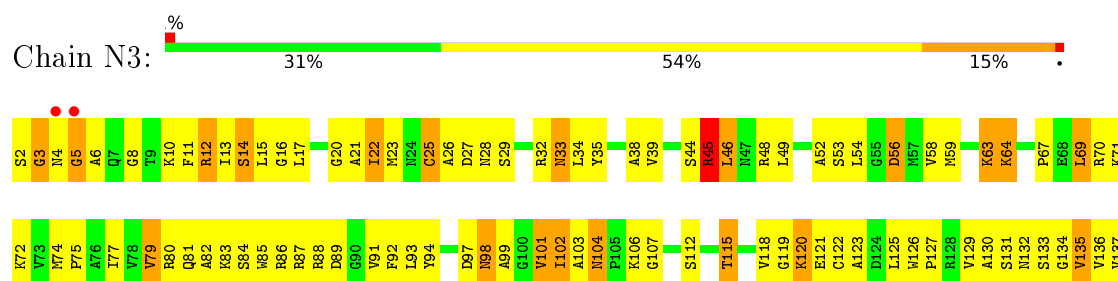
- Molecule 58: 60S ribosomal protein L22-A



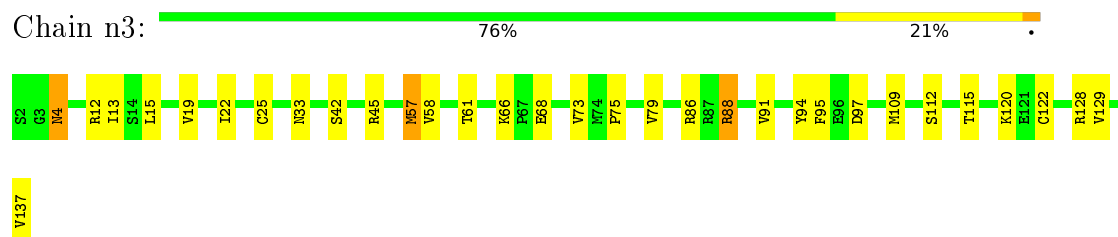
- Molecule 58: 60S ribosomal protein L22-A



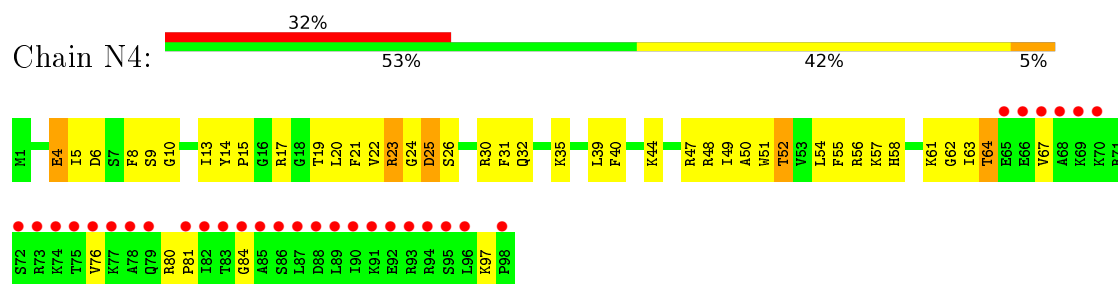
- Molecule 59: 60S ribosomal protein L23-A



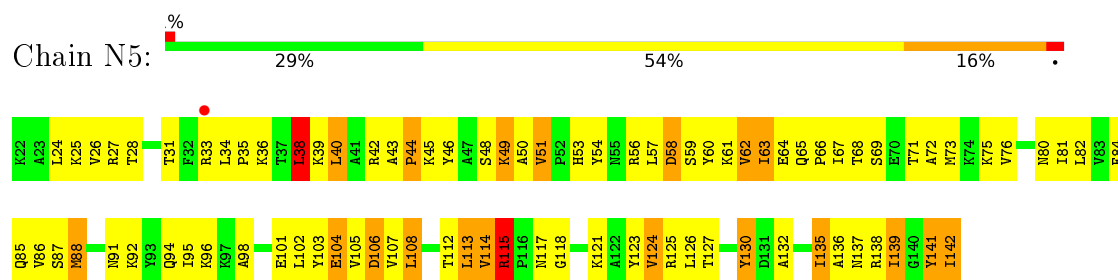
• Molecule 59: 60S ribosomal protein L23-A



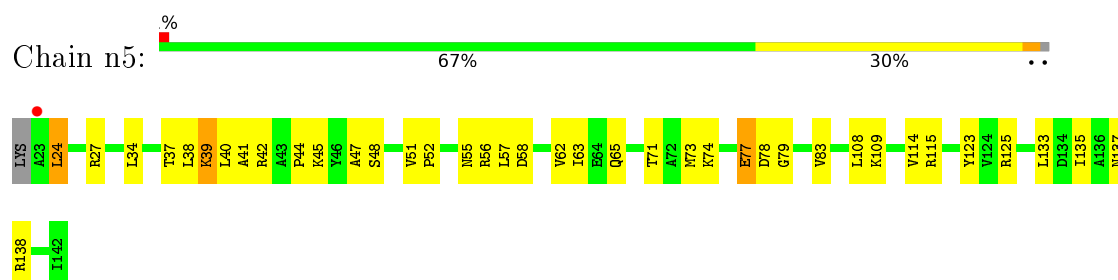
• Molecule 60: 60S ribosomal protein L24-A

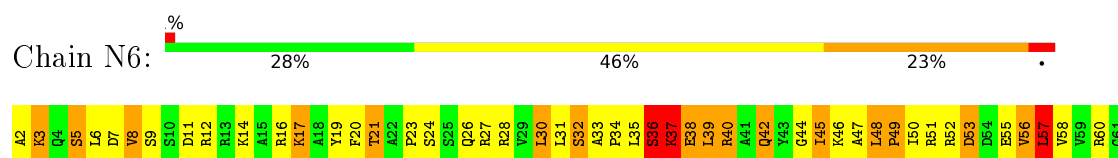


• Molecule 61: 60S ribosomal protein L25

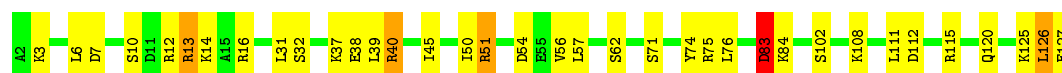


• Molecule 61: 60S ribosomal protein L25

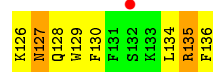
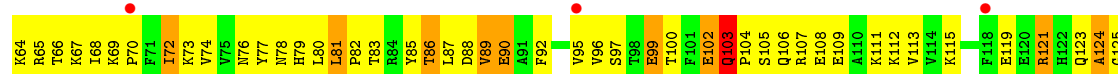
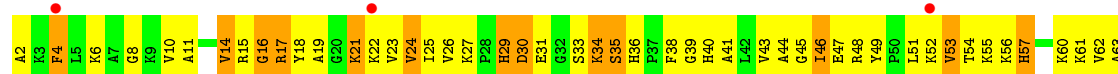




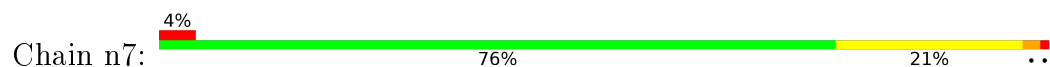
- Molecule 62: 60S ribosomal protein L26-A



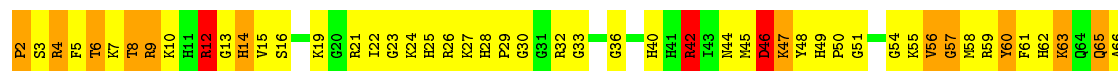
- Molecule 63: 60S ribosomal protein L27-A



- Molecule 63: 60S ribosomal protein L27-A

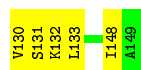
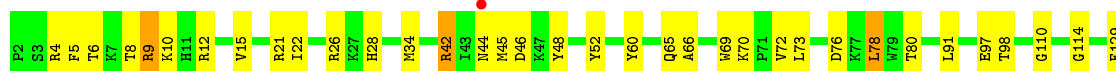
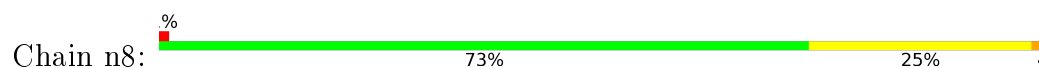


- Molecule 64: 60S ribosomal protein L28

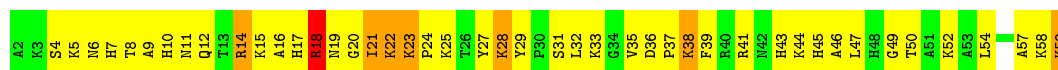




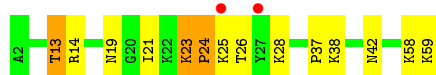
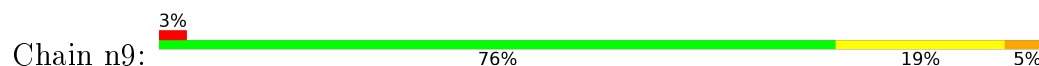
- Molecule 64: 60S ribosomal protein L28



- Molecule 65: 60S ribosomal protein L29



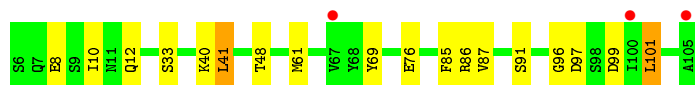
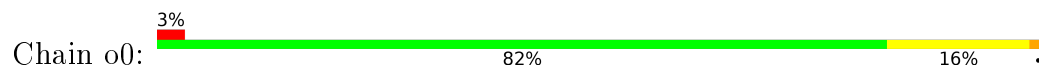
- Molecule 65: 60S ribosomal protein L29



- Molecule 66: 60S ribosomal protein L30



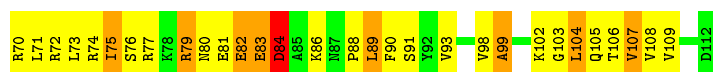
- Molecule 66: 60S ribosomal protein L30



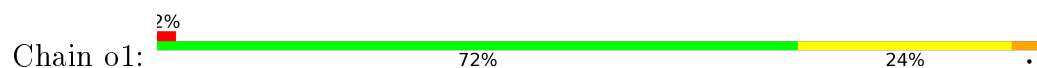
- Molecule 67: 60S ribosomal protein L31-A



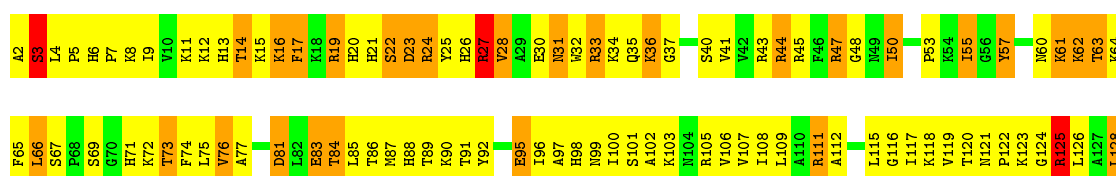




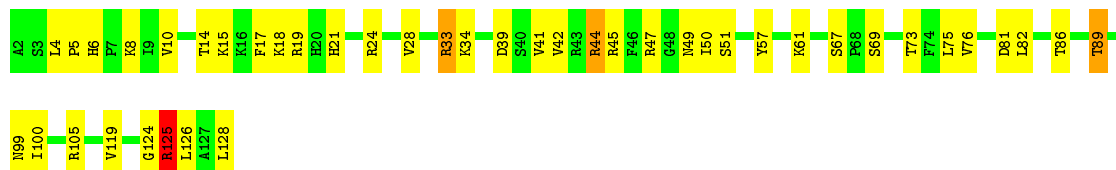
- Molecule 67: 60S ribosomal protein L31-A



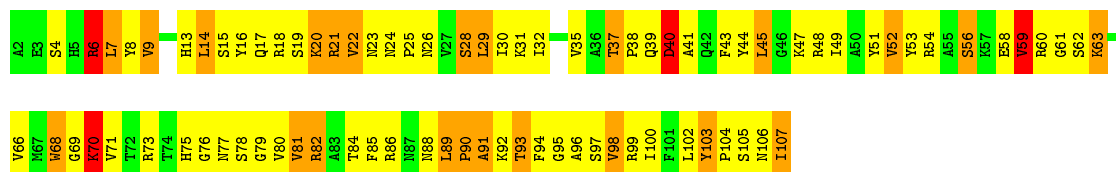
- Molecule 68: 60S ribosomal protein L32



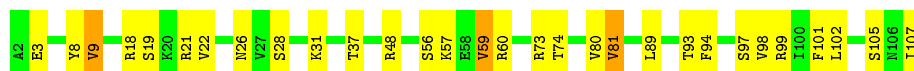
- Molecule 68: 60S ribosomal protein L32



- Molecule 69: 60S ribosomal protein L33-A

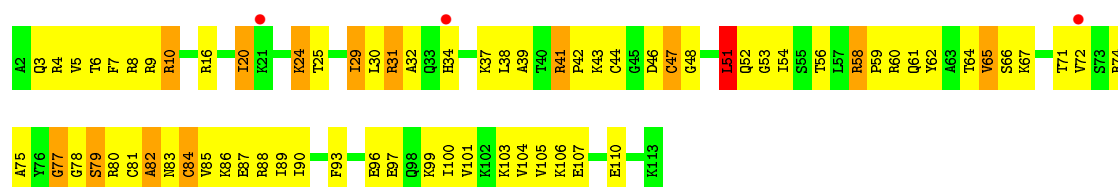


- Molecule 69: 60S ribosomal protein L33-A

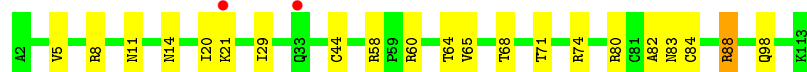
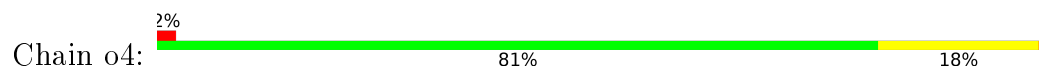


- Molecule 70: 60S ribosomal protein L34-A

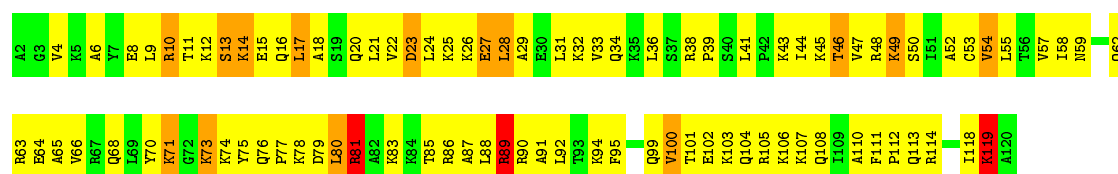




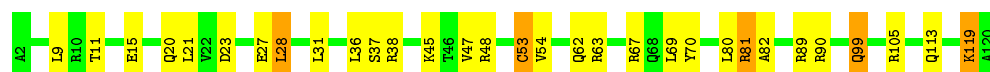
• Molecule 70: 60S ribosomal protein L34-A



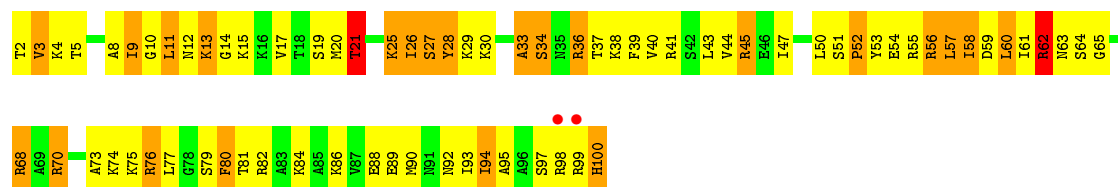
• Molecule 71: 60S ribosomal protein L35-A



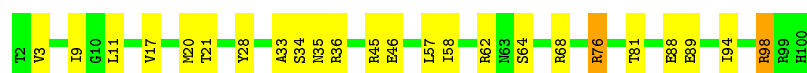
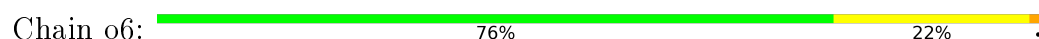
• Molecule 72: 60S ribosomal protein L36-A



• Molecule 73: 60S ribosomal protein L37-A

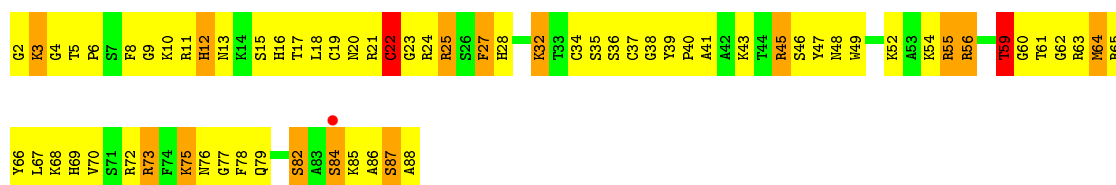


• Molecule 73: 60S ribosomal protein L37-A

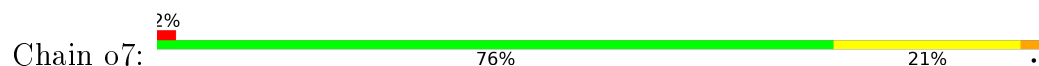


• Molecule 73: 60S ribosomal protein L37-A

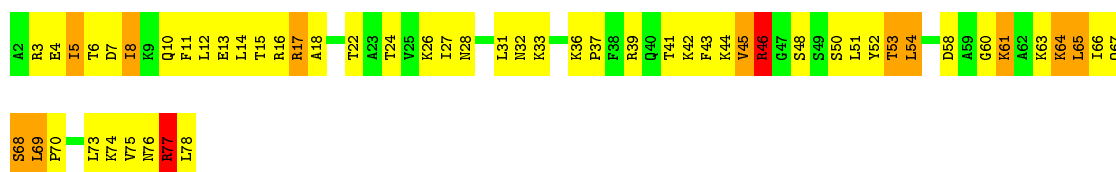




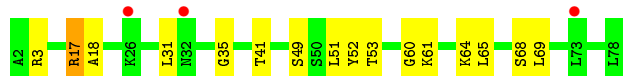
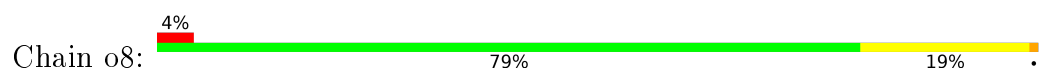
- Molecule 73: 60S ribosomal protein L37-A



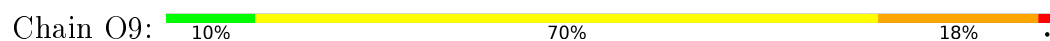
- Molecule 74: 60S ribosomal protein L38



- Molecule 74: 60S ribosomal protein L38



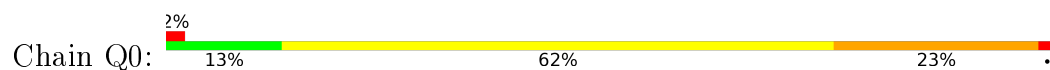
- Molecule 75: 60S ribosomal protein L39



- Molecule 75: 60S ribosomal protein L39



- Molecule 76: Ubiquitin-60S ribosomal protein L40

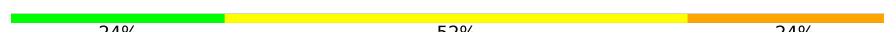


- Molecule 76: Ubiquitin-60S ribosomal protein L40

Chain q0:  71% 29%



- Molecule 77: 60S ribosomal protein L41-A

Chain Q1:  24% 52% 24%



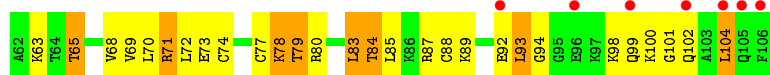
- Molecule 77: 60S ribosomal protein L41-A

Chain q1:  64% 32% .




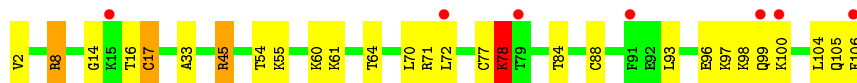
- Molecule 78: 60S ribosomal protein L42-A

Chain Q2:  9% 28% 48% 23% .



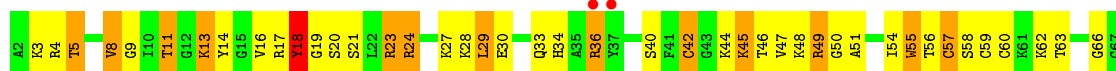
- Molecule 78: 60S ribosomal protein L42-A

Chain q2:  7% 73% 23% . .

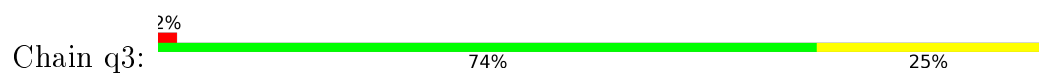


- Molecule 79: 60S ribosomal protein L43-A

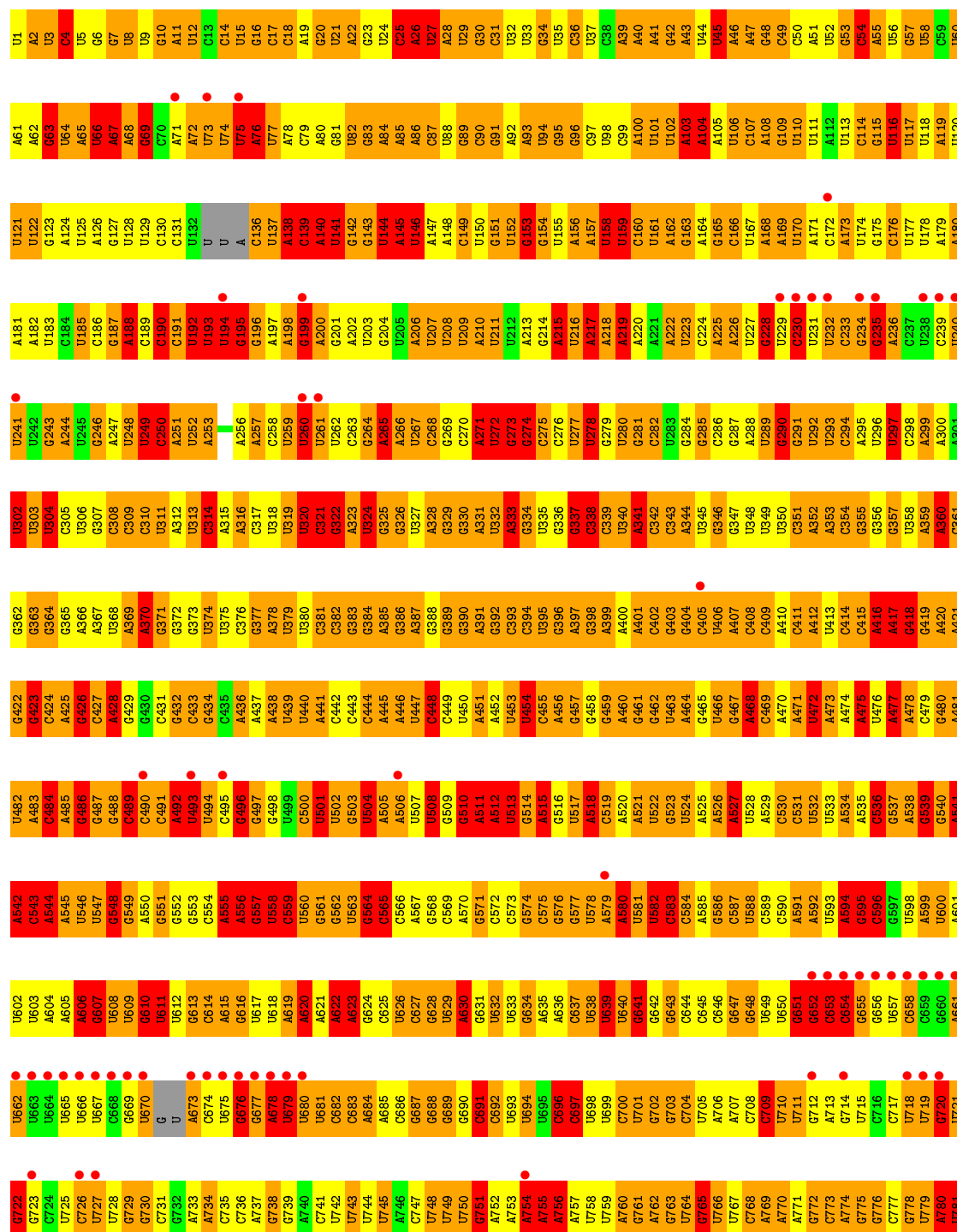
Chain Q3:  2% 31% 45% 23% .



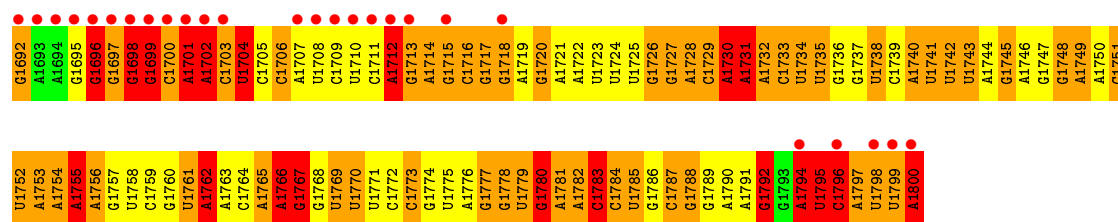
- Molecule 79: 60S ribosomal protein L43-A



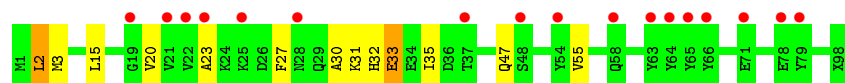
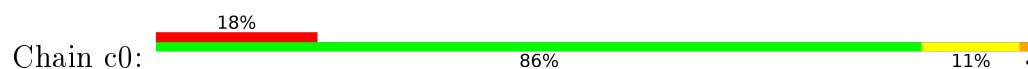
• Molecule 80: 18S ribosomal RNA



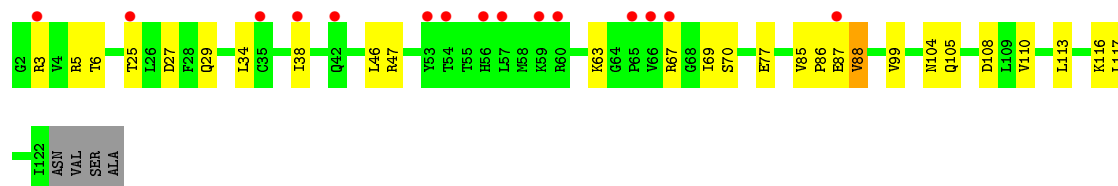
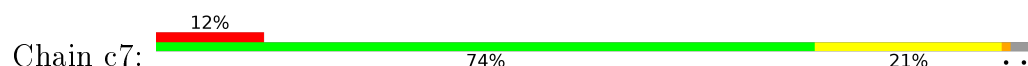
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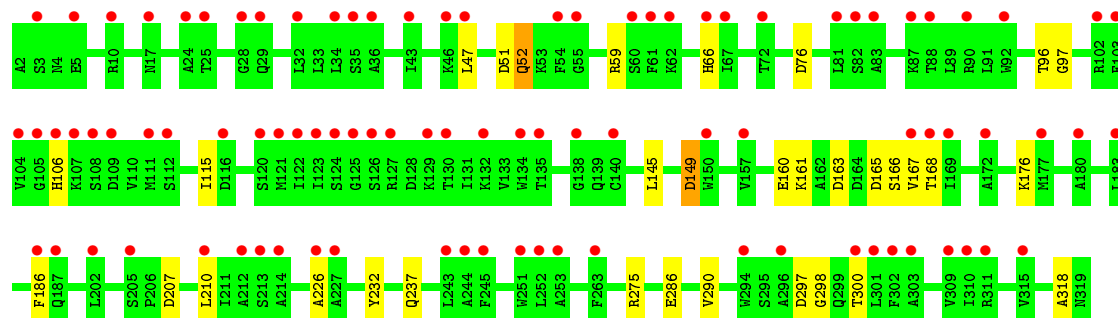
- Molecule 81: 40S ribosomal protein S10-A,40S Ribosomal Protein S10



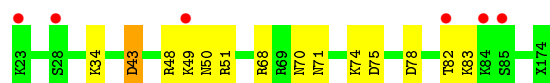
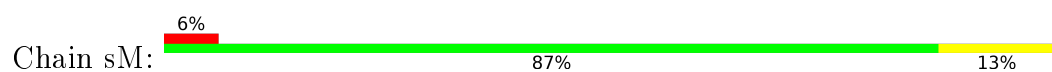
- Molecule 82: ES17



- Molecule 83: Guanine nucleotide-binding protein subunit beta-like protein



- Molecule 84: Suppressor protein STM1,Ribosome-bound protein Stm1



- Molecule 85: 25S ribosomal RNA

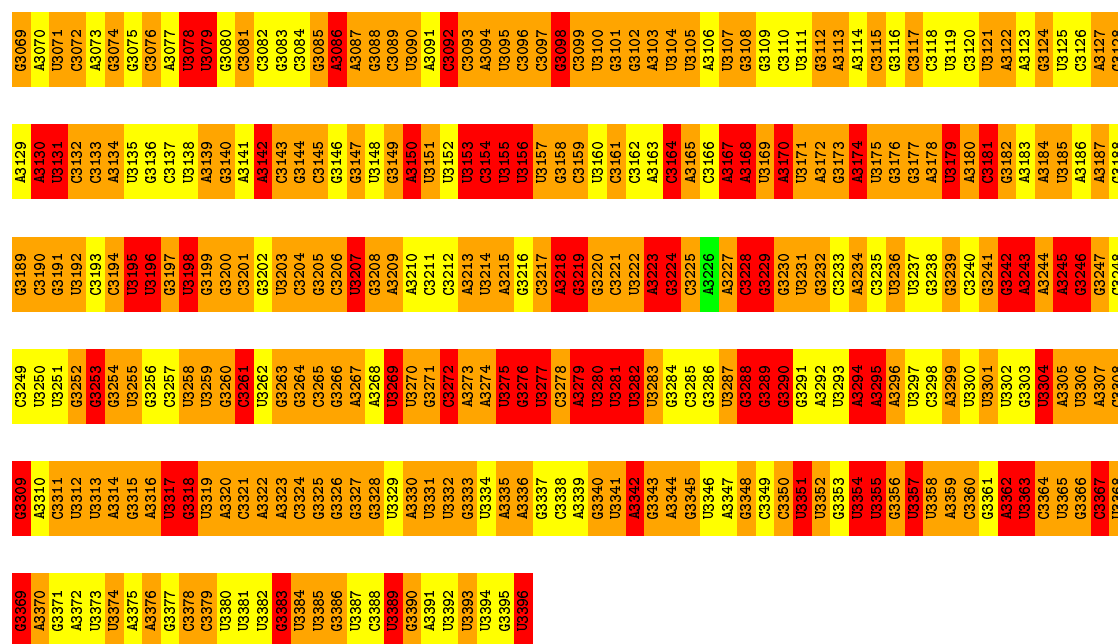


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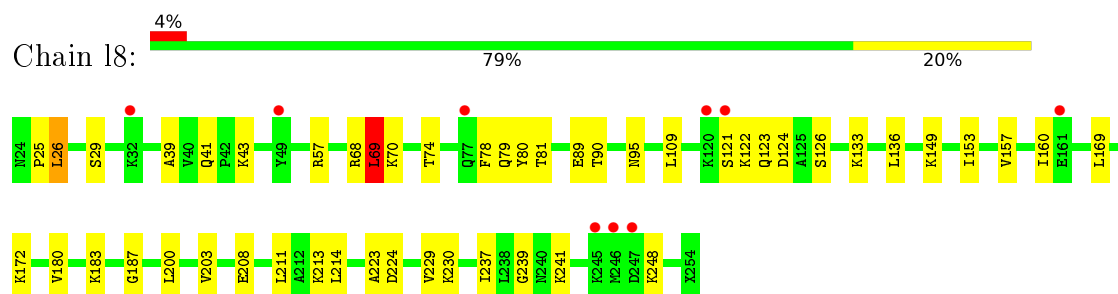


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- Molecule 86: 60S ribosomal protein L8-A, 60S Ribosomal Protein L8

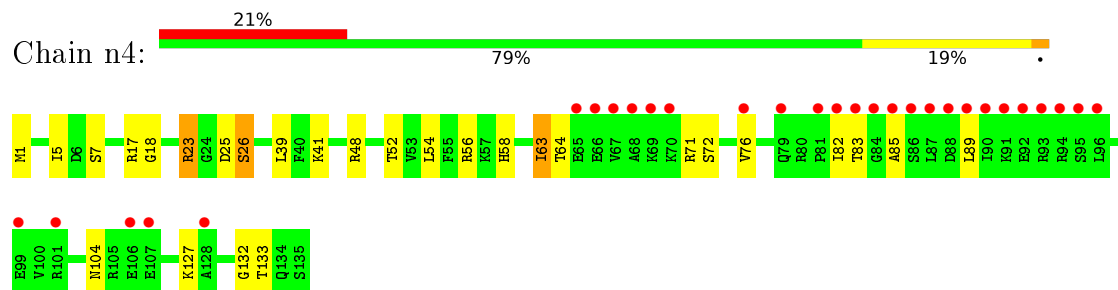


- Molecule 87: 60S Ribosomal Protein L12

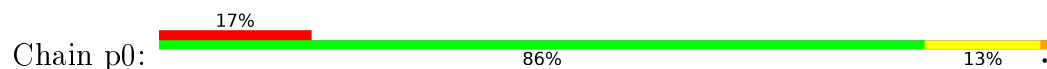


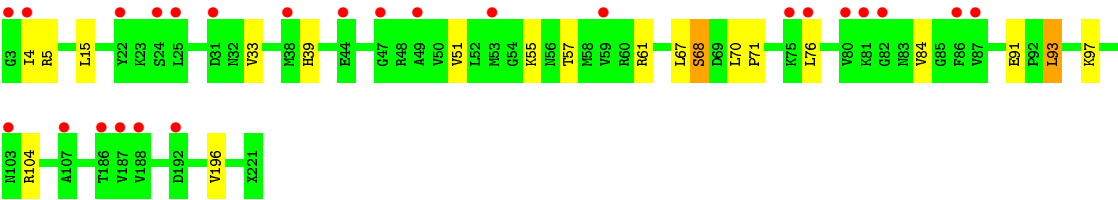
There are no outlier residues recorded for this chain.

- Molecule 88: 60S ribosomal protein L24-A



- Molecule 89: 60S Ribosomal Protein P0





● Molecule 90: 60S Ribosomal Protein P1/2



There are no outlier residues recorded for this chain.

● Molecule 90: 60S Ribosomal Protein P1/2



● Molecule 91: Peptidyl-tRNA analog ACCA-Leu-Phe



● Molecule 91: Peptidyl-tRNA analog ACCA-Leu-Phe



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	434.73Å 286.77Å 303.15Å 90.00° 98.87° 90.00°	Depositor
Resolution (Å)	148.72 – 3.50 149.76 – 3.50	Depositor EDS
% Data completeness (in resolution range)	99.8 (148.72-3.50) 99.7 (149.76-3.50)	Depositor EDS
$R_{merge}$	0.61	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.34 (at 3.49Å)	Xtriage
Refinement program	PHENIX	Depositor
R, $R_{free}$	0.261 , 0.312 0.260 , 0.311	Depositor DCC
$R_{free}$ test set	18356 reflections (2.00%)	DCC
Wilson B-factor (Å <sup>2</sup> )	83.6	Xtriage
Anisotropy	0.146	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.26 , 52.2	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.44$ , $\langle L^2 \rangle = 0.26$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.84	EDS
Total number of atoms	411589	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	64.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.58% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical values of  $\langle |L| \rangle$ ,  $\langle L^2 \rangle$  for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

## 5 Model quality ⓘ

### 5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: ZN, SPS, OHX, MG, 8AN

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with  $|Z| > 5$  is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z  > 5$	RMSZ	$\# Z  > 5$
1	2	1.53	426/42467 (1.0%)	2.41	4031/66169 (6.1%)
2	S0	0.67	0/1617	0.76	0/2215
2	s0	0.78	0/1623	0.86	1/2222 (0.0%)
3	S1	0.59	0/1735	0.75	1/2335 (0.0%)
3	s1	0.82	2/1748 (0.1%)	0.95	5/2352 (0.2%)
4	S2	0.73	0/1665	0.81	0/2263
4	s2	0.86	2/1665 (0.1%)	0.96	4/2263 (0.2%)
5	S3	0.68	0/1759	0.78	0/2368
5	s3	0.70	0/1759	0.79	0/2368
6	S4	0.85	2/2109 (0.1%)	0.91	2/2839 (0.1%)
6	s4	0.84	1/2109 (0.0%)	0.98	1/2839 (0.0%)
7	S5	0.66	0/1629	0.76	0/2202
7	s5	0.65	1/1629 (0.1%)	0.76	1/2202 (0.0%)
8	S6	0.84	3/1823 (0.2%)	0.92	5/2439 (0.2%)
8	s6	0.93	1/1779 (0.1%)	1.01	6/2379 (0.3%)
9	S7	0.73	2/1506 (0.1%)	0.79	0/2028
9	s7	0.78	0/1516	0.85	2/2043 (0.1%)
10	S8	0.79	1/1514 (0.1%)	0.90	2/2021 (0.1%)
10	s8	0.94	2/1514 (0.1%)	1.00	5/2021 (0.2%)
11	S9	0.75	2/1519 (0.1%)	0.88	1/2035 (0.0%)
11	s9	0.84	1/1519 (0.1%)	0.97	4/2035 (0.2%)
12	C0	0.62	0/725	0.72	0/978
13	C1	0.86	1/1195 (0.1%)	0.84	0/1612
13	c1	0.94	1/1194 (0.1%)	0.96	1/1610 (0.1%)
14	C2	0.59	0/873	0.72	0/1185
14	c2	0.47	0/873	0.63	0/1185
15	C3	0.75	0/1215	0.86	1/1638 (0.1%)
15	c3	0.86	1/1215 (0.1%)	0.93	0/1638
16	C4	0.59	0/901	0.75	0/1217
16	c4	0.85	0/960	0.97	0/1290
17	C5	0.85	2/988 (0.2%)	0.85	0/1327
17	c5	0.74	0/1010	0.85	1/1356 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
18	C6	0.65	0/1125	0.80	2/1510 (0.1%)
18	c6	0.69	0/1131	0.74	0/1518
19	C7	0.66	0/935	0.76	0/1254
20	C8	0.70	0/1211	0.82	0/1628
20	c8	0.76	1/1211 (0.1%)	0.87	0/1628
21	C9	0.66	0/1130	0.75	0/1517
21	c9	0.70	0/1130	0.79	1/1517 (0.1%)
22	D0	0.64	0/865	0.80	1/1169 (0.1%)
22	d0	0.72	0/892	0.75	0/1205
23	D1	0.72	0/693	0.83	0/935
23	d1	0.87	0/693	0.96	1/935 (0.1%)
24	D2	0.81	0/1038	0.90	2/1395 (0.1%)
24	d2	0.90	2/1038 (0.2%)	0.95	2/1395 (0.1%)
25	D3	0.85	1/1139 (0.1%)	0.90	1/1518 (0.1%)
25	d3	1.05	1/1139 (0.1%)	1.07	4/1518 (0.3%)
26	D4	0.79	0/1087	0.85	0/1449
26	d4	0.93	0/1087	1.04	5/1449 (0.3%)
27	D5	0.66	0/571	0.78	0/768
27	d5	0.78	1/566 (0.2%)	0.76	0/761
28	D6	0.68	0/782	0.78	1/1047 (0.1%)
28	d6	0.84	2/782 (0.3%)	0.99	1/1047 (0.1%)
29	D7	0.76	0/620	0.80	0/838
29	d7	0.82	2/620 (0.3%)	0.89	0/838
30	D8	0.69	0/499	0.82	1/670 (0.1%)
30	d8	0.69	0/499	0.91	0/670
31	D9	0.76	1/452 (0.2%)	0.80	0/600
31	d9	0.78	1/452 (0.2%)	0.80	0/600
32	E0	0.74	0/483	0.78	0/643
32	e0	0.94	1/499 (0.2%)	0.94	1/665 (0.2%)
33	E1	0.72	0/577	0.80	0/770
33	e1	0.66	0/619	0.77	0/822
34	SR	0.57	0/2490	0.71	0/3389
35	SM	0.77	1/925 (0.1%)	0.87	1/1240 (0.1%)
36	1	2.49	4418/75394 (5.9%)	3.49	15681/117545 (13.3%)
37	3	2.00	80/2883 (2.8%)	3.26	543/4491 (12.1%)
37	7	2.57	171/2883 (5.9%)	3.80	680/4491 (15.1%)
38	4	2.46	206/3746 (5.5%)	3.78	898/5832 (15.4%)
38	8	2.34	182/3746 (4.9%)	3.37	707/5832 (12.1%)
39	L2	1.18	7/1948 (0.4%)	1.22	16/2617 (0.6%)
39	l2	1.09	6/1946 (0.3%)	1.23	16/2614 (0.6%)
40	L3	1.18	16/3146 (0.5%)	1.19	19/4228 (0.4%)
40	l3	1.33	19/3146 (0.6%)	1.32	33/4228 (0.8%)
41	L4	1.29	18/2800 (0.6%)	1.30	28/3790 (0.7%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
41	l4	1.26	14/2800 (0.5%)	1.22	18/3790 (0.5%)
42	L5	1.02	5/2425 (0.2%)	1.04	10/3271 (0.3%)
42	l5	1.23	14/2408 (0.6%)	1.22	17/3248 (0.5%)
43	L6	1.21	2/1260 (0.2%)	1.15	3/1694 (0.2%)
43	l6	1.16	4/1269 (0.3%)	1.26	12/1705 (0.7%)
44	L7	1.32	12/1821 (0.7%)	1.23	14/2451 (0.6%)
44	l7	1.44	19/1828 (1.0%)	1.23	15/2461 (0.6%)
45	L8	0.98	2/1836 (0.1%)	0.99	3/2481 (0.1%)
46	L9	1.10	6/1539 (0.4%)	1.11	10/2073 (0.5%)
46	l9	1.19	4/1539 (0.3%)	1.21	13/2073 (0.6%)
47	M0	1.15	9/1741 (0.5%)	1.18	14/2335 (0.6%)
47	m0	1.24	5/1758 (0.3%)	1.37	21/2358 (0.9%)
48	M1	0.93	3/1374 (0.2%)	0.97	2/1842 (0.1%)
48	m1	1.05	4/1374 (0.3%)	1.17	10/1842 (0.5%)
49	M3	1.20	10/1568 (0.6%)	1.23	13/2106 (0.6%)
49	m3	1.05	3/1573 (0.2%)	1.20	13/2113 (0.6%)
50	M4	1.11	5/1068 (0.5%)	1.15	6/1438 (0.4%)
50	m4	1.21	7/1074 (0.7%)	1.27	10/1446 (0.7%)
51	M5	1.19	7/1757 (0.4%)	1.28	19/2354 (0.8%)
51	m5	1.10	5/1757 (0.3%)	1.16	10/2354 (0.4%)
52	M6	1.40	18/1585 (1.1%)	1.37	22/2128 (1.0%)
52	m6	1.50	13/1585 (0.8%)	1.35	22/2128 (1.0%)
53	M7	1.29	4/1443 (0.3%)	1.14	10/1944 (0.5%)
53	m7	1.47	17/1250 (1.4%)	1.29	13/1683 (0.8%)
54	M8	1.26	11/1465 (0.8%)	1.22	11/1965 (0.6%)
54	m8	1.23	10/1465 (0.7%)	1.30	11/1965 (0.6%)
55	M9	0.93	0/1538	0.98	2/2050 (0.1%)
55	m9	0.96	2/1538 (0.1%)	1.05	8/2050 (0.4%)
56	N0	1.20	4/1481 (0.3%)	1.15	6/1990 (0.3%)
56	n0	1.35	11/1481 (0.7%)	1.23	9/1990 (0.5%)
57	N1	1.16	3/1300 (0.2%)	1.13	5/1743 (0.3%)
57	n1	1.32	10/1300 (0.8%)	1.20	10/1743 (0.6%)
58	N2	0.95	0/812	0.90	1/1099 (0.1%)
58	n2	0.94	0/794	1.00	2/1076 (0.2%)
59	N3	1.16	5/1018 (0.5%)	1.21	8/1369 (0.6%)
59	n3	1.39	11/1018 (1.1%)	1.34	13/1369 (0.9%)
60	N4	0.94	1/712 (0.1%)	0.97	3/958 (0.3%)
61	N5	1.14	3/979 (0.3%)	1.16	7/1321 (0.5%)
61	n5	1.11	4/974 (0.4%)	1.19	4/1314 (0.3%)
62	N6	1.17	7/1004 (0.7%)	1.33	12/1341 (0.9%)
62	n6	1.17	5/1004 (0.5%)	1.34	15/1341 (1.1%)
63	N7	0.91	0/1118	0.91	1/1497 (0.1%)
63	n7	0.96	2/1118 (0.2%)	0.95	3/1497 (0.2%)



Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
64	N8	1.22	4/1204 (0.3%)	1.24	11/1612 (0.7%)
64	n8	1.25	10/1204 (0.8%)	1.26	10/1612 (0.6%)
65	N9	1.08	1/473 (0.2%)	1.14	2/629 (0.3%)
65	n9	1.17	2/473 (0.4%)	1.16	2/629 (0.3%)
66	O0	0.81	0/751	0.91	0/1008
66	o0	0.94	1/775 (0.1%)	0.99	2/1040 (0.2%)
67	O1	1.07	3/890 (0.3%)	1.07	4/1196 (0.3%)
67	o1	1.23	5/897 (0.6%)	1.22	5/1205 (0.4%)
68	O2	1.40	13/1041 (1.2%)	1.34	14/1394 (1.0%)
68	o2	1.24	6/1041 (0.6%)	1.33	11/1394 (0.8%)
69	O3	1.50	10/868 (1.2%)	1.22	7/1168 (0.6%)
69	o3	1.54	13/868 (1.5%)	1.32	7/1168 (0.6%)
70	O4	1.01	1/890 (0.1%)	1.14	7/1189 (0.6%)
70	o4	1.03	2/890 (0.2%)	1.11	6/1189 (0.5%)
71	O5	1.18	5/978 (0.5%)	1.26	11/1301 (0.8%)
71	o5	0.96	2/974 (0.2%)	1.13	6/1297 (0.5%)
72	O6	0.99	0/778	1.15	3/1034 (0.3%)
72	o6	1.03	2/777 (0.3%)	1.16	3/1033 (0.3%)
73	O7	1.30	2/696 (0.3%)	1.29	7/923 (0.8%)
73	o7	1.25	4/696 (0.6%)	1.16	3/923 (0.3%)
74	O8	0.96	2/618 (0.3%)	1.08	3/826 (0.4%)
74	o8	0.83	0/614	1.01	3/822 (0.4%)
75	O9	1.09	1/443 (0.2%)	1.31	7/588 (1.2%)
75	o9	1.02	0/443	1.26	6/588 (1.0%)
76	Q0	1.15	3/423 (0.7%)	1.21	4/562 (0.7%)
76	q0	1.33	6/423 (1.4%)	1.22	3/562 (0.5%)
77	Q1	0.79	0/234	1.15	3/300 (1.0%)
77	q1	0.96	0/234	1.40	2/300 (0.7%)
78	Q2	1.22	3/860 (0.3%)	1.23	7/1136 (0.6%)
78	q2	1.32	4/860 (0.5%)	1.33	9/1136 (0.8%)
79	Q3	1.26	9/701 (1.3%)	1.31	7/934 (0.7%)
79	q3	1.22	6/701 (0.9%)	1.10	3/934 (0.3%)
80	6	1.94	1088/42790 (2.5%)	2.88	5446/66673 (8.2%)
81	c0	0.60	0/693	0.62	0/933
82	c7	0.69	0/914	0.83	1/1224 (0.1%)
83	sR	0.61	0/2495	0.72	0/3395
84	sM	0.87	1/481 (0.2%)	0.90	0/644
85	5	2.61	4902/75414 (6.5%)	3.71	16861/117575 (14.3%)
86	l8	0.92	1/1765 (0.1%)	0.95	3/2387 (0.1%)
88	n4	1.08	0/1052	1.10	7/1398 (0.5%)
89	p0	0.82	0/977	0.84	2/1313 (0.2%)
91	P	2.37	2/40 (5.0%)	4.21	9/60 (15.0%)
91	p	13.84	3/43 (7.0%)	5.74	11/64 (17.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z  > 5$	RMSZ	$\# Z  > 5$
All	All	1.87	11986/430104 (2.8%)	2.68	45668/631544 (7.2%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
6	S4	0	2
9	s7	0	1
11	S9	0	1
17	c5	0	1
19	C7	0	1
22	d0	0	1
25	d3	0	1
27	D5	0	1
33	E1	0	2
39	L2	0	1
40	L3	0	1
40	l3	0	1
41	L4	0	2
41	l4	0	1
42	l5	0	2
44	L7	0	1
44	l7	0	2
47	M0	0	1
49	m3	0	1
52	M6	0	1
52	m6	0	1
53	M7	0	2
56	n0	0	2
57	N1	0	1
64	n8	0	1
65	N9	0	1
65	n9	0	1
68	o2	0	1
75	o9	0	1
80	6	0	1
81	c0	0	1
85	5	0	1
All	All	0	39

All (11986) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
91	p	74	C	P-O5'	89.50	2.49	1.59
37	7	63	A	C6-N6	27.75	1.56	1.33
80	6	1498	G	C8-N7	24.00	1.45	1.30
85	5	748	U	C4-O4	23.12	1.42	1.23
80	6	54	C	C4-N4	22.95	1.54	1.33
80	6	678	A	N7-C5	22.31	1.52	1.39
80	6	818	C	C4-N4	21.89	1.53	1.33
80	6	1673	G	C6-O6	21.52	1.43	1.24
80	6	347	G	C6-O6	21.13	1.43	1.24
85	5	383	G	C6-O6	20.38	1.42	1.24
80	6	1498	G	N7-C5	19.38	1.50	1.39
78	q2	17	CYS	CB-SG	19.33	2.15	1.82
36	1	1103	A	N9-C4	19.26	1.49	1.37
85	5	1772	U	C4-O4	19.02	1.38	1.23
85	5	2707	C	C4-N4	18.87	1.50	1.33
85	5	2208	A	C6-N6	18.74	1.49	1.33
85	5	3008	A	N9-C4	-18.67	1.26	1.37
80	6	420	A	C6-N6	18.44	1.48	1.33
80	6	410	A	P-OP1	17.80	1.79	1.49
80	6	1070	C	C4-N4	17.72	1.49	1.33
85	5	2656	A	N9-C4	-17.62	1.27	1.37
80	6	1143	A	N7-C5	17.34	1.49	1.39
80	6	1107	G	P-OP1	17.28	1.78	1.49
80	6	1498	G	N9-C8	17.21	1.49	1.37
36	1	440	A	N3-C4	17.04	1.45	1.34
80	6	32	U	C4-O4	16.74	1.37	1.23
80	6	264	G	C8-N7	16.65	1.41	1.30
80	6	122	U	C5-C6	16.64	1.49	1.34
85	5	1149	G	N9-C8	16.63	1.49	1.37
85	5	39	A	N3-C4	-16.49	1.25	1.34
85	5	1047	A	N9-C4	-16.41	1.28	1.37
85	5	39	A	N9-C4	-16.38	1.28	1.37
6	S4	82	TYR	C-N	-16.37	1.03	1.34
80	6	1051	G	C8-N7	16.35	1.40	1.30
36	1	967	A	N9-C4	-16.28	1.28	1.37
80	6	382	C	P-OP2	16.20	1.76	1.49
85	5	2124	G	C6-O6	16.19	1.38	1.24
78	Q2	17	CYS	CB-SG	16.10	2.09	1.82
85	5	2603	G	C8-N7	15.97	1.40	1.30
85	5	2725	U	C4-O4	15.96	1.36	1.23
85	5	2358	A	P-OP2	15.89	1.75	1.49
85	5	1124	U	C4-O4	15.86	1.36	1.23
80	6	423	G	C8-N7	15.85	1.40	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2896	A	N9-C4	-15.79	1.28	1.37
80	6	1449	U	C4-O4	15.74	1.36	1.23
36	1	440	A	N9-C4	15.72	1.47	1.37
85	5	2401	A	N3-C4	15.72	1.44	1.34
85	5	777	U	C5-C6	15.49	1.48	1.34
85	5	1887	A	N9-C4	-15.46	1.28	1.37
85	5	981	U	C2-N3	15.45	1.48	1.37
36	1	433	A	N9-C4	-15.23	1.28	1.37
80	6	419	G	N7-C5	15.19	1.48	1.39
80	6	54	C	N3-C4	15.17	1.44	1.33
80	6	1109	G	N7-C5	15.15	1.48	1.39
80	6	818	C	N3-C4	15.04	1.44	1.33
36	1	1352	A	N3-C4	14.89	1.43	1.34
36	1	2636	A	N3-C4	-14.89	1.25	1.34
36	1	346	C	N1-C6	-14.85	1.28	1.37
36	1	1372	C	N1-C6	-14.84	1.28	1.37
36	1	338	A	N3-C4	-14.82	1.25	1.34
36	1	2619	G	C6-N1	-14.79	1.29	1.39
85	5	3061	G	P-OP2	14.79	1.74	1.49
36	1	585	A	N9-C4	-14.75	1.28	1.37
37	7	65	G	P-OP2	14.73	1.74	1.49
36	1	1352	A	N9-C4	14.73	1.46	1.37
85	5	2984	C	N1-C6	-14.72	1.28	1.37
36	1	948	C	N1-C6	-14.65	1.28	1.37
80	6	1653	C	N1-C6	-14.57	1.28	1.37
36	1	1165	A	N9-C4	-14.53	1.29	1.37
36	1	3000	A	N9-C4	-14.46	1.29	1.37
80	6	872	G	C6-O6	14.42	1.37	1.24
80	6	1155	G	C8-N7	14.41	1.39	1.30
85	5	1862	U	C4-O4	14.35	1.35	1.23
80	6	1137	A	N9-C4	-14.33	1.29	1.37
37	7	63	A	C5-C6	14.32	1.53	1.41
85	5	1190	A	N3-C4	-14.25	1.26	1.34
85	5	2319	U	C4-O4	14.21	1.35	1.23
36	1	1371	G	N3-C4	-14.17	1.25	1.35
80	6	818	C	C2-N3	14.16	1.47	1.35
80	6	1214	U	C4-O4	14.15	1.34	1.23
85	5	774	G	C6-O6	14.15	1.36	1.24
80	6	1109	G	C8-N7	14.14	1.39	1.30
85	5	1935	G	C8-N7	14.14	1.39	1.30
80	6	463	U	C4-O4	14.10	1.34	1.23
85	5	868	C	N1-C6	-14.10	1.28	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1582	C	N1-C6	14.08	1.45	1.37
85	5	1440	G	N3-C4	-14.07	1.25	1.35
85	5	653	A	N9-C4	-14.05	1.29	1.37
80	6	1353	U	C5-C6	14.05	1.46	1.34
85	5	2401	A	N9-C4	14.05	1.46	1.37
36	1	885	U	C2-N3	-14.04	1.27	1.37
85	5	1849	C	N1-C6	-14.03	1.28	1.37
85	5	2986	U	P-OP1	14.03	1.72	1.49
80	6	54	C	C2-N3	13.99	1.47	1.35
38	4	92	A	N9-C4	-13.97	1.29	1.37
85	5	2966	G	N7-C5	-13.96	1.30	1.39
36	1	80	G	C6-N1	-13.94	1.29	1.39
36	1	646	A	N3-C4	-13.94	1.26	1.34
36	1	324	A	N3-C4	-13.86	1.26	1.34
85	5	777	U	N1-C6	13.84	1.50	1.38
36	1	201	A	N9-C4	-13.83	1.29	1.37
85	5	3239	G	C8-N7	13.81	1.39	1.30
85	5	3040	A	N9-C4	-13.81	1.29	1.37
80	6	1652	C	P-OP1	13.81	1.72	1.49
36	1	2811	A	N3-C4	-13.80	1.26	1.34
85	5	2375	G	N7-C5	-13.80	1.30	1.39
85	5	653	A	C5-C6	-13.77	1.28	1.41
80	6	991	G	P-OP2	13.74	1.72	1.49
80	6	1051	G	N9-C8	13.72	1.47	1.37
36	1	653	A	N7-C5	-13.70	1.31	1.39
36	1	1435	A	N7-C5	-13.68	1.31	1.39
36	1	637	C	N1-C6	-13.66	1.28	1.37
36	1	343	U	C2-N3	-13.65	1.28	1.37
80	6	122	U	N1-C6	13.63	1.50	1.38
80	6	469	C	C2-O2	13.61	1.36	1.24
85	5	653	A	N7-C5	-13.60	1.31	1.39
85	5	981	U	N1-C6	13.59	1.50	1.38
85	5	3239	G	N7-C5	13.59	1.47	1.39
80	6	1672	G	N7-C5	13.57	1.47	1.39
36	1	1143	A	N3-C4	-13.55	1.26	1.34
36	1	2397	A	N9-C4	-13.55	1.29	1.37
85	5	965	A	C5-C4	-13.54	1.29	1.38
80	6	1155	G	N7-C5	13.53	1.47	1.39
85	5	2707	C	C2-N3	13.50	1.46	1.35
36	1	962	A	N3-C4	-13.47	1.26	1.34
85	5	1674	G	P-OP2	13.47	1.71	1.49
80	6	1294	G	C8-N7	13.46	1.39	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2819	A	N9-C4	-13.46	1.29	1.37
36	1	2207	A	N9-C4	13.42	1.46	1.37
85	5	3008	A	N3-C4	-13.39	1.26	1.34
85	5	933	A	C5-C4	-13.39	1.29	1.38
85	5	647	A	N3-C4	-13.38	1.26	1.34
85	5	3003	G	N3-C4	-13.34	1.26	1.35
37	7	63	A	N9-C4	13.29	1.45	1.37
85	5	2626	A	N3-C4	-13.27	1.26	1.34
36	1	1886	A	N3-C4	-13.26	1.26	1.34
36	1	1891	A	N9-C4	-13.24	1.29	1.37
36	1	3103	A	N9-C4	-13.23	1.29	1.37
85	5	657	A	N9-C4	-13.21	1.29	1.37
85	5	2350	C	N1-C6	-13.17	1.29	1.37
85	5	3010	U	C2-N3	-13.16	1.28	1.37
36	1	1760	A	N9-C4	13.15	1.45	1.37
85	5	2707	C	N3-C4	13.14	1.43	1.33
80	6	1007	C	P-OP2	13.14	1.71	1.49
85	5	1332	A	N7-C5	-13.12	1.31	1.39
85	5	2851	A	P-OP1	13.12	1.71	1.49
80	6	1027	A	N9-C4	-13.11	1.29	1.37
36	1	972	A	N9-C4	-13.10	1.29	1.37
36	1	1143	A	N9-C4	-13.10	1.29	1.37
85	5	2288	G	N3-C4	-13.10	1.26	1.35
38	4	79	A	C5-C4	13.10	1.48	1.38
85	5	2724	U	C4-O4	13.09	1.34	1.23
36	1	823	C	N1-C6	-13.08	1.29	1.37
85	5	2970	C	N1-C6	-13.08	1.29	1.37
85	5	345	G	N7-C5	-13.04	1.31	1.39
80	6	129	U	C2-O2	13.01	1.34	1.22
85	5	2635	A	N3-C4	-12.99	1.27	1.34
37	7	60	G	P-OP1	12.97	1.71	1.49
36	1	992	A	N3-C4	-12.95	1.27	1.34
41	L4	94	CYS	CB-SG	-12.95	1.60	1.82
80	6	595	G	P-OP2	12.91	1.70	1.49
85	5	820	A	N3-C4	-12.90	1.27	1.34
80	6	871	G	C6-O6	12.89	1.35	1.24
85	5	1850	A	N7-C5	-12.83	1.31	1.39
85	5	1281	G	C8-N7	12.82	1.38	1.30
80	6	46	A	N3-C4	-12.81	1.27	1.34
85	5	1301	A	N9-C4	-12.80	1.30	1.37
80	6	923	A	N9-C4	-12.79	1.30	1.37
85	5	2320	A	N9-C4	-12.78	1.30	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	317	C	N1-C6	-12.75	1.29	1.37
85	5	1281	G	N7-C5	12.73	1.46	1.39
85	5	1919	G	N7-C5	-12.73	1.31	1.39
85	5	657	A	C5-C6	-12.71	1.29	1.41
36	1	516	A	N9-C4	-12.68	1.30	1.37
36	1	2360	C	N1-C6	-12.66	1.29	1.37
36	1	343	U	N1-C6	-12.66	1.26	1.38
85	5	1189	C	N1-C6	-12.62	1.29	1.37
80	6	1719	A	P-OP2	12.61	1.70	1.49
36	1	992	A	N9-C4	-12.58	1.30	1.37
36	1	2169	G	N7-C5	12.57	1.46	1.39
85	5	1524	A	N3-C4	-12.54	1.27	1.34
36	1	2896	A	N3-C4	-12.53	1.27	1.34
80	6	1293	U	C5-C6	12.52	1.45	1.34
36	1	363	G	C6-N1	-12.52	1.30	1.39
17	C5	52	LYS	C-N	12.51	1.58	1.34
80	6	1051	G	N7-C5	12.51	1.46	1.39
36	1	1371	G	N9-C8	-12.51	1.29	1.37
85	5	818	C	N1-C6	-12.49	1.29	1.37
85	5	40	A	N9-C4	-12.47	1.30	1.37
85	5	981	U	N1-C2	12.47	1.49	1.38
37	3	102	A	N9-C4	-12.47	1.30	1.37
85	5	1935	G	N9-C8	12.47	1.46	1.37
36	1	653	A	C5-C6	-12.46	1.29	1.41
85	5	3091	A	N3-C4	-12.45	1.27	1.34
36	1	2618	G	C6-N1	-12.43	1.30	1.39
85	5	2603	G	N9-C8	12.43	1.46	1.37
85	5	965	A	C5-C6	-12.43	1.29	1.41
85	5	436	A	N7-C5	12.42	1.46	1.39
85	5	1375	G	N7-C5	-12.40	1.31	1.39
36	1	921	A	C5-C4	-12.39	1.30	1.38
36	1	981	U	C2-N3	12.36	1.46	1.37
85	5	383	G	C6-N1	12.36	1.48	1.39
38	8	80	A	N9-C4	12.36	1.45	1.37
36	1	970	A	N9-C4	-12.34	1.30	1.37
85	5	1880	U	C2-N3	-12.34	1.29	1.37
85	5	2389	C	N1-C6	-12.33	1.29	1.37
36	1	806	A	N9-C4	-12.33	1.30	1.37
85	5	846	A	N3-C4	-12.33	1.27	1.34
38	8	23	U	C2-N3	-12.32	1.29	1.37
36	1	672	A	N9-C4	-12.30	1.30	1.37
37	7	73	C	N1-C6	12.29	1.44	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2368	A	N7-C5	-12.26	1.31	1.39
85	5	3312	U	C4-O4	12.26	1.33	1.23
85	5	2280	A	N3-C4	-12.25	1.27	1.34
85	5	2316	G	C6-N1	-12.25	1.30	1.39
85	5	1432	C	N3-C4	-12.23	1.25	1.33
85	5	3309	G	N7-C5	-12.20	1.31	1.39
36	1	1103	A	N3-C4	12.17	1.42	1.34
85	5	1429	G	C6-N1	-12.17	1.31	1.39
36	1	1459	C	N1-C6	-12.16	1.29	1.37
85	5	798	G	N7-C5	-12.16	1.31	1.39
85	5	2338	C	N1-C6	-12.12	1.29	1.37
85	5	3106	A	N9-C4	-12.12	1.30	1.37
85	5	1301	A	N3-C4	-12.11	1.27	1.34
85	5	870	G	N7-C5	12.11	1.46	1.39
85	5	295	A	N9-C4	-12.10	1.30	1.37
85	5	3327	G	C6-O6	12.08	1.35	1.24
85	5	1136	A	N9-C4	-12.07	1.30	1.37
85	5	1190	A	N9-C4	-12.07	1.30	1.37
36	1	38	U	N1-C2	-12.07	1.27	1.38
36	1	1375	G	N3-C4	-12.05	1.27	1.35
36	1	1297	C	N1-C6	-12.05	1.29	1.37
38	8	138	A	N9-C8	-12.04	1.28	1.37
36	1	695	C	N1-C6	-12.02	1.29	1.37
85	5	3308	C	N1-C6	-12.02	1.29	1.37
36	1	2607	G	N9-C8	-12.01	1.29	1.37
38	4	65	A	N9-C4	-12.01	1.30	1.37
80	6	1673	G	C5-C6	12.00	1.54	1.42
36	1	1154	A	C5-C4	-11.99	1.30	1.38
85	5	1350	A	C5-C6	11.98	1.51	1.41
85	5	1135	A	N3-C4	-11.97	1.27	1.34
85	5	1935	G	N7-C5	11.95	1.46	1.39
36	1	2321	A	N9-C4	-11.95	1.30	1.37
85	5	3093	C	N1-C6	-11.94	1.29	1.37
36	1	433	A	N3-C4	-11.93	1.27	1.34
85	5	421	G	C6-N1	-11.92	1.31	1.39
85	5	3336	A	N3-C4	-11.92	1.27	1.34
85	5	2188	A	N3-C4	-11.92	1.27	1.34
80	6	1729	C	N1-C6	-11.91	1.30	1.37
80	6	33	U	C4-O4	11.89	1.33	1.23
85	5	2964	G	N7-C5	11.86	1.46	1.39
85	5	980	A	C5-C6	11.83	1.51	1.41
85	5	1348	U	N1-C6	11.82	1.48	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	204	G	N7-C5	11.81	1.46	1.39
85	5	1149	G	C8-N7	11.81	1.38	1.30
85	5	3104	U	N1-C2	-11.81	1.27	1.38
85	5	1348	U	C2-N3	11.80	1.46	1.37
85	5	647	A	N9-C8	-11.79	1.28	1.37
85	5	980	A	N7-C5	11.79	1.46	1.39
36	1	651	G	C6-N1	-11.79	1.31	1.39
36	1	970	A	N3-C4	-11.78	1.27	1.34
36	1	363	G	N1-C2	-11.77	1.28	1.37
85	5	3184	A	N9-C4	-11.76	1.30	1.37
36	1	2409	G	N9-C8	-11.75	1.29	1.37
85	5	957	C	N1-C6	-11.75	1.30	1.37
36	1	2902	A	N9-C4	-11.74	1.30	1.37
36	1	201	A	N3-C4	-11.74	1.27	1.34
36	1	324	A	N9-C4	-11.73	1.30	1.37
85	5	2933	A	N3-C4	-11.72	1.27	1.34
38	4	79	A	C5-C6	11.71	1.51	1.41
85	5	1662	G	C6-O6	11.71	1.34	1.24
85	5	3139	A	N3-C4	-11.71	1.27	1.34
85	5	1103	A	N3-C4	11.71	1.41	1.34
85	5	189	G	C6-N1	-11.69	1.31	1.39
36	1	516	A	N3-C4	-11.69	1.27	1.34
38	4	106	C	N1-C6	-11.68	1.30	1.37
85	5	1661	G	C8-N7	11.68	1.38	1.30
85	5	2374	C	N1-C6	-11.68	1.30	1.37
85	5	1159	A	C5-C6	-11.68	1.30	1.41
85	5	2987	A	N3-C4	-11.68	1.27	1.34
85	5	2988	C	N1-C6	-11.67	1.30	1.37
36	1	885	U	N3-C4	-11.67	1.27	1.38
36	1	2321	A	N3-C4	-11.66	1.27	1.34
36	1	904	A	N9-C4	-11.66	1.30	1.37
36	1	986	U	C2-N3	-11.66	1.29	1.37
85	5	1330	A	N3-C4	-11.65	1.27	1.34
80	6	1727	G	C6-O6	11.64	1.34	1.24
85	5	1661	G	N9-C8	11.64	1.46	1.37
36	1	1093	A	C6-N1	11.62	1.43	1.35
85	5	1661	G	N7-C5	11.62	1.46	1.39
85	5	2248	C	N1-C6	-11.61	1.30	1.37
36	1	2621	G	N7-C5	-11.60	1.32	1.39
85	5	999	G	C5-C4	-11.60	1.30	1.38
36	1	343	U	N1-C2	-11.60	1.28	1.38
80	6	1800	A	N9-C4	11.60	1.44	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2233	A	C6-N1	-11.60	1.27	1.35
36	1	1351	U	C2-N3	11.60	1.45	1.37
36	1	2736	A	N9-C4	-11.60	1.30	1.37
80	6	652	G	C5-C4	11.58	1.46	1.38
85	5	189	G	N3-C4	-11.57	1.27	1.35
80	6	423	G	N9-C8	11.56	1.46	1.37
36	1	2748	A	N9-C4	-11.56	1.30	1.37
85	5	3139	A	N9-C4	-11.56	1.30	1.37
36	1	1178	G	C6-N1	-11.54	1.31	1.39
36	1	2605	G	N3-C4	-11.53	1.27	1.35
85	5	1476	G	N9-C8	-11.53	1.29	1.37
85	5	3039	C	N1-C6	-11.53	1.30	1.37
36	1	637	C	N3-C4	-11.52	1.25	1.33
36	1	967	A	N3-C4	-11.52	1.27	1.34
36	1	2169	G	C5-C6	11.51	1.53	1.42
36	1	895	A	N9-C4	-11.51	1.30	1.37
85	5	2804	A	N3-C4	-11.51	1.27	1.34
85	5	958	C	N1-C6	-11.49	1.30	1.37
85	5	2188	A	N9-C4	-11.48	1.30	1.37
37	7	80	G	C6-N1	-11.47	1.31	1.39
1	2	555	A	N9-C4	11.47	1.44	1.37
85	5	2663	G	C6-O6	11.47	1.34	1.24
38	4	79	A	N7-C5	11.46	1.46	1.39
85	5	1451	C	N1-C6	-11.46	1.30	1.37
85	5	2304	C	N1-C6	-11.45	1.30	1.37
36	1	1154	A	N3-C4	-11.45	1.27	1.34
36	1	1133	A	N9-C4	-11.45	1.30	1.37
36	1	1348	U	C2-O2	11.44	1.32	1.22
36	1	19	U	N1-C2	-11.43	1.28	1.38
36	1	1843	C	N1-C6	-11.43	1.30	1.37
85	5	2656	A	N3-C4	-11.43	1.27	1.34
36	1	2381	G	N7-C5	-11.42	1.32	1.39
38	4	8	C	N1-C6	-11.42	1.30	1.37
85	5	2871	G	N9-C8	11.42	1.45	1.37
36	1	3349	C	N1-C6	11.42	1.44	1.37
85	5	981	U	N3-C4	11.41	1.48	1.38
85	5	2359	C	N1-C6	-11.40	1.30	1.37
85	5	2741	C	N1-C6	-11.40	1.30	1.37
85	5	3157	U	N1-C2	11.39	1.48	1.38
36	1	2637	A	N3-C4	-11.38	1.28	1.34
85	5	970	A	N9-C4	-11.38	1.31	1.37
38	8	80	A	C5-C4	11.38	1.46	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2431	C	N1-C6	-11.37	1.30	1.37
85	5	3015	G	N9-C8	-11.37	1.29	1.37
36	1	499	G	N7-C5	-11.37	1.32	1.39
85	5	870	G	C8-N7	11.37	1.37	1.30
85	5	2819	A	N9-C8	-11.36	1.28	1.37
38	4	53	A	N3-C4	-11.36	1.28	1.34
80	6	204	G	C8-N7	11.35	1.37	1.30
36	1	1100	U	N1-C2	-11.34	1.28	1.38
37	7	10	C	N1-C6	-11.34	1.30	1.37
36	1	343	U	C2-O2	-11.33	1.12	1.22
36	1	71	A	N3-C4	-11.32	1.28	1.34
85	5	1881	A	N3-C4	-11.32	1.28	1.34
36	1	88	A	N3-C4	-11.31	1.28	1.34
85	5	933	A	N7-C5	-11.31	1.32	1.39
85	5	367	A	N9-C4	-11.30	1.31	1.37
36	1	100	A	N9-C4	-11.29	1.31	1.37
85	5	408	A	N3-C4	-11.29	1.28	1.34
36	1	2983	C	N3-C4	-11.28	1.26	1.33
36	1	2971	A	N9-C4	11.28	1.44	1.37
36	1	1103	A	N7-C5	11.27	1.46	1.39
85	5	2943	G	N3-C4	-11.26	1.27	1.35
36	1	2326	A	N9-C4	-11.26	1.31	1.37
36	1	2758	A	N7-C5	11.24	1.46	1.39
40	L3	251	CYS	CB-SG	-11.24	1.63	1.82
36	1	2736	A	N3-C4	-11.23	1.28	1.34
36	1	967	A	C6-N1	-11.23	1.27	1.35
85	5	756	U	N1-C2	-11.23	1.28	1.38
36	1	2943	G	N7-C5	-11.23	1.32	1.39
85	5	2417	U	C4-O4	11.22	1.32	1.23
85	5	2656	A	N7-C5	-11.22	1.32	1.39
85	5	1114	U	N1-C2	-11.22	1.28	1.38
80	6	1728	A	N9-C4	-11.21	1.31	1.37
36	1	522	A	N9-C4	-11.20	1.31	1.37
36	1	3011	A	N9-C8	-11.19	1.28	1.37
36	1	921	A	N3-C4	-11.19	1.28	1.34
36	1	2128	C	N1-C6	-11.19	1.30	1.37
36	1	2726	C	N3-C4	-11.19	1.26	1.33
36	1	2147	A	N9-C4	-11.17	1.31	1.37
37	7	101	G	N7-C5	-11.17	1.32	1.39
36	1	356	C	N1-C6	-11.17	1.30	1.37
36	1	2636	A	C6-N1	-11.16	1.27	1.35
36	1	3130	A	N3-C4	-11.15	1.28	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	98	G	N3-C4	-11.15	1.27	1.35
36	1	338	A	N7-C5	-11.15	1.32	1.39
1	2	776	A	N9-C4	11.14	1.44	1.37
85	5	3272	C	N1-C6	-11.13	1.30	1.37
36	1	1426	C	N3-C4	-11.13	1.26	1.33
80	6	1353	U	N1-C6	11.13	1.48	1.38
36	1	1371	G	N9-C4	-11.13	1.29	1.38
36	1	2607	G	N9-C4	-11.12	1.29	1.38
36	1	2341	A	N9-C4	-11.12	1.31	1.37
85	5	953	G	C6-N1	-11.12	1.31	1.39
80	6	1092	A	P-OP1	11.12	1.67	1.49
36	1	799	G	N3-C4	-11.10	1.27	1.35
36	1	1655	G	C5-C4	-11.10	1.30	1.38
85	5	948	C	N1-C6	-11.10	1.30	1.37
85	5	2215	A	N9-C4	-11.10	1.31	1.37
36	1	2754	G	C6-N1	-11.10	1.31	1.39
85	5	1137	C	N1-C6	-11.10	1.30	1.37
85	5	367	A	N7-C5	-11.09	1.32	1.39
85	5	1475	A	N9-C4	-11.09	1.31	1.37
37	7	101	G	N9-C8	-11.09	1.30	1.37
85	5	523	A	N9-C4	-11.09	1.31	1.37
1	2	312	A	N3-C4	-11.08	1.28	1.34
85	5	3206	C	N3-C4	-11.07	1.26	1.33
85	5	31	C	N3-C4	-11.07	1.26	1.33
85	5	1314	C	N1-C6	-11.06	1.30	1.37
36	1	924	G	N7-C5	-11.06	1.32	1.39
36	1	1164	G	N7-C5	-11.06	1.32	1.39
85	5	1370	G	C6-N1	-11.05	1.31	1.39
36	1	882	A	N9-C4	-11.05	1.31	1.37
85	5	2608	G	N9-C8	-11.05	1.30	1.37
36	1	942	U	C4-O4	11.04	1.32	1.23
85	5	3153	U	N1-C2	11.04	1.48	1.38
36	1	865	U	C2-N3	-11.02	1.30	1.37
85	5	914	A	N7-C5	-11.01	1.32	1.39
36	1	59	G	N7-C5	-11.01	1.32	1.39
36	1	1143	A	N9-C8	-11.01	1.28	1.37
85	5	2354	C	N1-C2	-11.01	1.29	1.40
37	7	79	A	P-OP2	11.01	1.67	1.49
80	6	703	G	C6-O6	11.00	1.34	1.24
80	6	678	A	N3-C4	11.00	1.41	1.34
36	1	1372	C	N3-C4	-10.99	1.26	1.33
36	1	41	G	N7-C5	-10.98	1.32	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	957	C	N1-C6	-10.98	1.30	1.37
85	5	3006	A	N3-C4	-10.98	1.28	1.34
80	6	46	A	N9-C4	-10.98	1.31	1.37
85	5	2132	C	N1-C6	-10.97	1.30	1.37
38	4	79	A	N3-C4	10.96	1.41	1.34
1	2	28	A	N9-C4	-10.96	1.31	1.37
36	1	1165	A	N3-C4	-10.95	1.28	1.34
85	5	2417	U	N3-C4	10.96	1.48	1.38
36	1	955	U	N1-C6	-10.95	1.28	1.38
36	1	3275	U	N1-C6	10.95	1.47	1.38
85	5	2197	C	N1-C6	-10.94	1.30	1.37
37	3	81	U	C2-N3	-10.94	1.30	1.37
85	5	3396	U	P-OP2	10.93	1.67	1.49
85	5	1303	A	C5-C6	-10.92	1.31	1.41
36	1	576	C	N1-C6	-10.92	1.30	1.37
85	5	2819	A	N3-C4	-10.91	1.28	1.34
36	1	343	U	N3-C4	-10.91	1.28	1.38
36	1	2627	C	N1-C6	-10.91	1.30	1.37
85	5	947	G	N9-C8	-10.91	1.30	1.37
37	7	110	G	N9-C4	-10.91	1.29	1.38
85	5	73	C	N1-C6	-10.90	1.30	1.37
85	5	1184	A	N9-C4	-10.90	1.31	1.37
36	1	1308	A	N3-C4	-10.90	1.28	1.34
38	4	33	A	N3-C4	-10.90	1.28	1.34
85	5	2799	A	N3-C4	-10.89	1.28	1.34
36	1	1117	G	C5-C4	-10.89	1.30	1.38
85	5	1332	A	N9-C4	-10.89	1.31	1.37
85	5	1405	U	C2-N3	-10.88	1.30	1.37
36	1	2799	A	N3-C4	-10.88	1.28	1.34
36	1	3275	U	C2-N3	10.88	1.45	1.37
85	5	2256	A	N3-C4	10.88	1.41	1.34
36	1	1299	U	N1-C2	-10.87	1.28	1.38
80	6	1109	G	N9-C8	10.87	1.45	1.37
85	5	417	A	N9-C4	-10.87	1.31	1.37
85	5	1140	G	N9-C4	-10.86	1.29	1.38
36	1	189	G	N3-C4	-10.86	1.27	1.35
85	5	836	A	N9-C4	-10.86	1.31	1.37
36	1	338	A	N9-C4	-10.86	1.31	1.37
36	1	1308	A	N7-C5	-10.86	1.32	1.39
80	6	110	U	C4-O4	10.85	1.32	1.23
85	5	947	G	N3-C4	-10.83	1.27	1.35
85	5	926	A	N9-C4	-10.83	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2933	A	C6-N1	-10.83	1.27	1.35
36	1	653	A	N9-C4	-10.82	1.31	1.37
36	1	780	A	N3-C4	-10.82	1.28	1.34
85	5	1221	A	P-OP2	10.82	1.67	1.49
80	6	1681	A	N9-C4	-10.82	1.31	1.37
85	5	1887	A	N7-C5	-10.82	1.32	1.39
85	5	2639	G	N7-C5	-10.82	1.32	1.39
85	5	2341	A	N9-C4	-10.82	1.31	1.37
85	5	1146	C	N1-C6	-10.81	1.30	1.37
85	5	1205	A	C5-C4	-10.81	1.31	1.38
85	5	3091	A	C6-N1	-10.80	1.27	1.35
36	1	640	U	N1-C6	-10.79	1.28	1.38
36	1	18	G	N7-C5	-10.79	1.32	1.39
36	1	2296	A	N9-C4	-10.79	1.31	1.37
85	5	933	A	N9-C8	-10.79	1.29	1.37
80	6	1659	A	N3-C4	-10.78	1.28	1.34
36	1	958	C	N1-C6	-10.77	1.30	1.37
85	5	2603	G	C5-C4	10.77	1.45	1.38
85	5	2296	A	N9-C4	-10.77	1.31	1.37
36	1	100	A	C6-N1	-10.77	1.28	1.35
85	5	826	G	N7-C5	-10.77	1.32	1.39
36	1	1150	A	C6-N1	-10.76	1.28	1.35
85	5	2282	U	C2-N3	-10.76	1.30	1.37
85	5	2405	C	N3-C4	-10.75	1.26	1.33
80	6	25	C	C2-O2	10.74	1.34	1.24
36	1	588	G	C6-N1	-10.74	1.32	1.39
36	1	1150	A	N3-C4	-10.74	1.28	1.34
85	5	2754	G	C6-N1	-10.73	1.32	1.39
85	5	2643	A	N9-C4	-10.73	1.31	1.37
80	6	1670	G	N3-C4	-10.72	1.27	1.35
37	7	102	A	N9-C4	-10.72	1.31	1.37
36	1	1847	A	C6-N1	-10.72	1.28	1.35
85	5	2877	G	N9-C8	10.72	1.45	1.37
36	1	2387	A	N9-C4	-10.71	1.31	1.37
85	5	1850	A	N3-C4	-10.70	1.28	1.34
85	5	965	A	N3-C4	-10.69	1.28	1.34
38	8	138	A	N7-C5	-10.69	1.32	1.39
36	1	2601	A	C5-C4	-10.69	1.31	1.38
36	1	933	A	N7-C5	-10.68	1.32	1.39
36	1	796	U	C2-N3	-10.68	1.30	1.37
36	1	1397	C	N1-C6	-10.68	1.30	1.37
85	5	2375	G	C5-C4	-10.67	1.30	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2702	A	N7-C5	-10.67	1.32	1.39
37	7	57	G	N7-C5	-10.66	1.32	1.39
1	2	1638	A	N3-C4	-10.66	1.28	1.34
85	5	2316	G	N3-C4	-10.66	1.27	1.35
85	5	3052	G	C6-N1	-10.66	1.32	1.39
85	5	576	C	N1-C6	-10.66	1.30	1.37
85	5	2421	U	C2-O2	-10.66	1.12	1.22
36	1	1431	G	C6-N1	-10.64	1.32	1.39
85	5	1924	U	C2-N3	-10.64	1.30	1.37
85	5	1350	A	C5-C4	10.64	1.46	1.38
85	5	1140	G	C5-C4	-10.64	1.30	1.38
85	5	94	G	N9-C4	-10.63	1.29	1.38
85	5	519	A	N7-C5	-10.63	1.32	1.39
38	8	79	A	C5-C4	10.63	1.46	1.38
85	5	2867	C	N1-C6	-10.62	1.30	1.37
80	6	1734	U	N1-C2	-10.61	1.28	1.38
37	7	63	A	C5-C4	10.61	1.46	1.38
85	5	919	U	C2-N3	-10.61	1.30	1.37
85	5	1170	A	N3-C4	-10.61	1.28	1.34
85	5	1872	C	N3-C4	-10.61	1.26	1.33
85	5	306	A	N9-C4	-10.60	1.31	1.37
85	5	953	G	C5-C4	-10.60	1.30	1.38
85	5	844	G	N3-C4	-10.60	1.28	1.35
85	5	3325	G	N9-C4	-10.60	1.29	1.38
85	5	1613	A	N9-C4	-10.60	1.31	1.37
85	5	2851	A	C6-N1	-10.60	1.28	1.35
36	1	1094	U	C2-N3	10.59	1.45	1.37
36	1	1589	A	N3-C4	-10.58	1.28	1.34
85	5	1192	C	N1-C2	10.57	1.50	1.40
85	5	1907	C	N1-C6	-10.57	1.30	1.37
85	5	880	G	N9-C8	-10.56	1.30	1.37
85	5	582	G	N3-C4	-10.55	1.28	1.35
36	1	1578	C	C2-N3	10.54	1.44	1.35
36	1	345	G	N9-C8	-10.54	1.30	1.37
36	1	2632	G	C5-C4	-10.54	1.30	1.38
36	1	1467	A	C5-C4	-10.53	1.31	1.38
36	1	2215	A	N9-C4	-10.53	1.31	1.37
85	5	61	A	N3-C4	-10.53	1.28	1.34
85	5	1330	A	C5-C4	-10.52	1.31	1.38
85	5	1350	A	N7-C5	10.52	1.45	1.39
36	1	2647	A	N7-C5	-10.51	1.32	1.39
80	6	742	U	C2-N3	10.51	1.45	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1423	C	N1-C6	-10.50	1.30	1.37
85	5	3382	U	N1-C2	10.50	1.48	1.38
36	1	547	G	C6-N1	10.48	1.46	1.39
38	4	47	C	N3-C4	-10.48	1.26	1.33
36	1	780	A	C6-N1	-10.47	1.28	1.35
36	1	912	G	N9-C8	-10.47	1.30	1.37
85	5	2313	A	N3-C4	-10.47	1.28	1.34
36	1	2797	C	N1-C6	-10.47	1.30	1.37
85	5	2300	G	C6-N1	-10.46	1.32	1.39
85	5	1055	A	N3-C4	-10.45	1.28	1.34
38	8	114	G	C6-N1	10.45	1.46	1.39
85	5	1133	A	C6-N6	10.45	1.42	1.33
85	5	2702	A	N3-C4	-10.45	1.28	1.34
36	1	651	G	N9-C8	-10.44	1.30	1.37
85	5	1391	C	N1-C6	-10.44	1.30	1.37
85	5	2133	U	N1-C2	-10.44	1.29	1.38
85	5	2099	A	N9-C4	10.44	1.44	1.37
85	5	2136	C	P-OP1	10.44	1.66	1.49
85	5	1909	A	C5-C6	-10.43	1.31	1.41
38	4	137	C	N1-C6	-10.43	1.30	1.37
36	1	2619	G	N1-C2	-10.43	1.29	1.37
85	5	2224	A	N9-C4	-10.43	1.31	1.37
85	5	2399	A	N9-C4	-10.43	1.31	1.37
36	1	2286	U	C2-N3	-10.42	1.30	1.37
85	5	1662	G	N9-C8	-10.42	1.30	1.37
36	1	100	A	N3-C4	-10.42	1.28	1.34
36	1	646	A	C6-N1	-10.42	1.28	1.35
36	1	2222	A	N7-C5	-10.41	1.33	1.39
85	5	397	A	C5-C4	-10.41	1.31	1.38
85	5	2296	A	C5-C4	-10.41	1.31	1.38
37	7	73	C	N1-C2	10.41	1.50	1.40
80	6	1136	U	C2-N3	-10.41	1.30	1.37
85	5	2958	A	N7-C5	-10.40	1.33	1.39
85	5	1155	C	C4-C5	-10.38	1.34	1.43
85	5	2288	G	C6-N1	-10.38	1.32	1.39
85	5	3234	A	N7-C5	10.38	1.45	1.39
85	5	1397	C	N1-C6	-10.38	1.30	1.37
85	5	1889	G	N7-C5	-10.38	1.33	1.39
85	5	345	G	N9-C8	-10.38	1.30	1.37
36	1	402	A	N3-C4	-10.37	1.28	1.34
85	5	3003	G	C6-N1	-10.37	1.32	1.39
85	5	965	A	C6-N1	-10.36	1.28	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	979	U	P-OP1	10.36	1.66	1.49
37	7	85	G	C5-C6	-10.36	1.31	1.42
85	5	1867	A	N7-C5	-10.36	1.33	1.39
80	6	436	A	N3-C4	-10.35	1.28	1.34
85	5	965	A	N9-C4	-10.35	1.31	1.37
36	1	2377	G	N7-C5	-10.35	1.33	1.39
85	5	342	A	N3-C4	-10.34	1.28	1.34
85	5	348	A	N9-C4	-10.34	1.31	1.37
85	5	2395	G	N3-C4	-10.33	1.28	1.35
38	4	94	C	N1-C6	-10.33	1.30	1.37
36	1	2667	A	N9-C4	-10.32	1.31	1.37
85	5	1343	A	N9-C4	-10.32	1.31	1.37
85	5	3305	A	N9-C4	-10.32	1.31	1.37
85	5	649	A	C5-C6	-10.32	1.31	1.41
85	5	2405	C	C2-N3	-10.31	1.27	1.35
85	5	2821	C	N1-C6	-10.31	1.30	1.37
85	5	2941	A	N3-C4	-10.31	1.28	1.34
36	1	948	C	N1-C2	-10.30	1.29	1.40
36	1	2746	A	N3-C4	-10.30	1.28	1.34
85	5	918	C	N3-C4	10.30	1.41	1.33
85	5	2982	A	C5-C4	-10.30	1.31	1.38
85	5	31	C	C2-N3	-10.30	1.27	1.35
36	1	87	U	N1-C2	-10.29	1.29	1.38
36	1	2824	G	N3-C4	-10.29	1.28	1.35
85	5	1405	U	N3-C4	-10.29	1.29	1.38
85	5	2368	A	N3-C4	-10.29	1.28	1.34
36	1	522	A	N7-C5	-10.28	1.33	1.39
38	4	52	A	C5-C4	-10.28	1.31	1.38
85	5	3299	A	N3-C4	-10.28	1.28	1.34
36	1	780	A	N9-C4	-10.28	1.31	1.37
36	1	2232	A	N9-C4	-10.27	1.31	1.37
36	1	652	G	C5-C4	-10.27	1.31	1.38
36	1	585	A	C5-C6	-10.26	1.31	1.41
36	1	786	A	C6-N1	-10.26	1.28	1.35
85	5	639	G	N9-C4	-10.26	1.29	1.38
36	1	267	G	C6-N1	10.26	1.46	1.39
85	5	2768	U	P-OP2	10.25	1.66	1.49
36	1	57	A	N9-C4	-10.25	1.31	1.37
80	6	94	U	C2-N3	-10.25	1.30	1.37
85	5	2628	A	C6-N1	-10.25	1.28	1.35
36	1	70	A	N9-C4	-10.25	1.31	1.37
36	1	1901	A	N3-C4	-10.25	1.28	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	941	G	C6-N1	-10.24	1.32	1.39
85	5	1590	G	N7-C5	-10.24	1.33	1.39
85	5	367	A	C5-C4	-10.23	1.31	1.38
85	5	2202	C	N1-C6	-10.23	1.31	1.37
36	1	882	A	N7-C5	-10.23	1.33	1.39
85	5	2931	C	N1-C6	-10.23	1.31	1.37
85	5	2381	G	N7-C5	-10.22	1.33	1.39
36	1	1796	G	N7-C5	-10.22	1.33	1.39
80	6	1744	A	N9-C4	-10.22	1.31	1.37
37	7	117	A	N3-C4	-10.22	1.28	1.34
85	5	1432	C	C2-N3	-10.22	1.27	1.35
80	6	755	A	N9-C4	-10.20	1.31	1.37
85	5	2885	C	N1-C6	-10.20	1.31	1.37
85	5	2365	C	N1-C6	-10.19	1.31	1.37
36	1	1850	A	N9-C4	-10.19	1.31	1.37
36	1	27	C	N3-C4	-10.19	1.26	1.33
85	5	963	G	N1-C2	-10.19	1.29	1.37
36	1	828	A	N9-C4	-10.18	1.31	1.37
36	1	2502	A	N9-C4	10.18	1.44	1.37
85	5	397	A	N3-C4	-10.18	1.28	1.34
36	1	992	A	C6-N1	-10.18	1.28	1.35
80	6	1293	U	N1-C6	10.18	1.47	1.38
85	5	2762	A	N3-C4	-10.18	1.28	1.34
85	5	2312	A	N3-C4	-10.17	1.28	1.34
85	5	407	A	N7-C5	-10.17	1.33	1.39
85	5	2401	A	C6-N1	10.17	1.42	1.35
80	6	46	A	C6-N1	-10.17	1.28	1.35
85	5	1429	G	N1-C2	-10.17	1.29	1.37
85	5	3067	C	N1-C6	-10.16	1.31	1.37
85	5	1884	A	N3-C4	-10.16	1.28	1.34
85	5	2890	A	N3-C4	-10.15	1.28	1.34
36	1	812	G	N3-C4	-10.15	1.28	1.35
85	5	647	A	C5-C4	-10.15	1.31	1.38
36	1	676	G	N7-C5	-10.15	1.33	1.39
37	7	84	A	N3-C4	-10.15	1.28	1.34
85	5	1434	G	N3-C4	-10.14	1.28	1.35
80	6	441	A	N3-C4	-10.14	1.28	1.34
85	5	94	G	C5-C4	-10.14	1.31	1.38
85	5	1294	A	N3-C4	-10.14	1.28	1.34
85	5	330	G	N7-C5	10.13	1.45	1.39
36	1	703	G	C6-N1	-10.13	1.32	1.39
85	5	962	A	C6-N1	-10.13	1.28	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1295	G	N3-C4	-10.13	1.28	1.35
85	5	2116	G	N7-C5	-10.13	1.33	1.39
85	5	2627	C	N1-C6	-10.13	1.31	1.37
85	5	1409	G	P-OP1	10.12	1.66	1.49
85	5	3127	A	P-OP2	10.12	1.66	1.49
36	1	1102	A	N9-C4	-10.12	1.31	1.37
36	1	1153	A	N7-C5	-10.12	1.33	1.39
85	5	647	A	N7-C5	-10.11	1.33	1.39
85	5	2342	U	N1-C6	-10.11	1.28	1.38
36	1	796	U	N3-C4	-10.11	1.29	1.38
85	5	636	C	N1-C6	-10.11	1.31	1.37
1	2	312	A	N7-C5	-10.10	1.33	1.39
36	1	3103	A	N3-C4	-10.10	1.28	1.34
36	1	282	G	C6-N1	-10.10	1.32	1.39
38	4	65	A	N3-C4	-10.10	1.28	1.34
36	1	585	A	N7-C5	-10.09	1.33	1.39
85	5	2335	G	N1-C2	-10.09	1.29	1.37
85	5	3209	A	C5-C6	10.09	1.50	1.41
36	1	951	A	N9-C4	-10.09	1.31	1.37
36	1	3046	A	N7-C5	-10.09	1.33	1.39
85	5	941	G	C5-C4	-10.09	1.31	1.38
85	5	1133	A	N3-C4	-10.09	1.28	1.34
85	5	2738	A	N3-C4	-10.09	1.28	1.34
36	1	970	A	N7-C5	-10.09	1.33	1.39
85	5	2187	G	N7-C5	-10.09	1.33	1.39
36	1	947	G	N3-C4	-10.07	1.28	1.35
36	1	1316	C	N1-C6	-10.06	1.31	1.37
85	5	938	C	N1-C6	-10.06	1.31	1.37
36	1	400	G	N7-C5	-10.05	1.33	1.39
36	1	1432	C	N1-C6	-10.05	1.31	1.37
85	5	658	G	N3-C4	-10.06	1.28	1.35
85	5	2943	G	C5-C6	-10.06	1.32	1.42
80	6	754	A	N9-C4	10.05	1.43	1.37
85	5	795	G	N7-C5	-10.05	1.33	1.39
85	5	2821	C	N1-C2	-10.05	1.30	1.40
36	1	2376	G	C6-N1	-10.05	1.32	1.39
85	5	1145	G	C5-C4	-10.04	1.31	1.38
85	5	962	A	N3-C4	-10.04	1.28	1.34
36	1	2375	G	C5-C4	-10.04	1.31	1.38
51	M5	152	CYS	CB-SG	-10.03	1.65	1.82
36	1	641	C	N1-C6	-10.03	1.31	1.37
36	1	2345	A	N3-C4	-10.03	1.28	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1140	G	N9-C8	-10.03	1.30	1.37
85	5	837	A	C5-C4	-10.02	1.31	1.38
80	6	1143	A	C8-N7	10.02	1.38	1.31
85	5	1792	C	N1-C6	-10.02	1.31	1.37
85	5	1141	C	N1-C6	-10.02	1.31	1.37
80	6	1030	A	N3-C4	-10.01	1.28	1.34
80	6	678	A	C5-C4	10.01	1.45	1.38
36	1	400	G	C5-C6	-10.00	1.32	1.42
85	5	3273	A	N3-C4	-10.00	1.28	1.34
80	6	423	G	N7-C5	9.99	1.45	1.39
85	5	3141	A	N7-C5	-9.99	1.33	1.39
36	1	583	G	N3-C4	-9.99	1.28	1.35
36	1	2873	U	N3-C4	-9.99	1.29	1.38
36	1	818	C	N1-C6	-9.99	1.31	1.37
85	5	1357	G	C6-N1	-9.98	1.32	1.39
85	5	2637	A	N3-C4	-9.98	1.28	1.34
36	1	2359	C	N1-C6	-9.98	1.31	1.37
36	1	1121	U	C2-N3	-9.98	1.30	1.37
36	1	921	A	C6-N1	-9.98	1.28	1.35
80	6	264	G	N7-C5	9.97	1.45	1.39
36	1	1137	C	N1-C6	-9.97	1.31	1.37
85	5	652	G	N3-C4	-9.97	1.28	1.35
80	6	1649	G	C8-N7	9.96	1.36	1.30
36	1	2139	A	C6-N1	-9.96	1.28	1.35
85	5	1135	A	C6-N1	-9.96	1.28	1.35
36	1	100	A	N7-C5	-9.95	1.33	1.39
80	6	1765	A	N3-C4	-9.96	1.28	1.34
85	5	3375	A	N7-C5	-9.95	1.33	1.39
36	1	949	C	N1-C6	-9.95	1.31	1.37
85	5	1309	U	N1-C2	-9.95	1.29	1.38
36	1	1517	G	N3-C4	-9.94	1.28	1.35
85	5	2389	C	N3-C4	-9.94	1.26	1.33
85	5	726	G	N7-C5	-9.94	1.33	1.39
85	5	1661	G	C5-C4	9.93	1.45	1.38
36	1	678	G	N7-C5	-9.93	1.33	1.39
36	1	2333	C	N1-C6	-9.92	1.31	1.37
85	5	653	A	N3-C4	-9.92	1.28	1.34
85	5	2977	G	C5-C4	-9.92	1.31	1.38
85	5	2964	G	C6-N1	-9.92	1.32	1.39
85	5	407	A	N3-C4	-9.91	1.28	1.34
36	1	199	A	N9-C4	9.91	1.43	1.37
36	1	2427	U	C2-N3	-9.91	1.30	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	420	G	N9-C8	-9.91	1.30	1.37
85	5	706	A	N9-C4	-9.91	1.31	1.37
79	q3	55	TRP	CB-CG	-9.91	1.32	1.50
85	5	2920	U	N1-C2	-9.90	1.29	1.38
36	1	3142	A	N3-C4	-9.90	1.28	1.34
36	1	3155	U	C2-N3	9.90	1.44	1.37
85	5	2851	A	N3-C4	-9.90	1.28	1.34
80	6	420	A	N3-C4	-9.89	1.28	1.34
85	5	326	U	C2-N3	9.89	1.44	1.37
85	5	2642	A	N9-C4	-9.89	1.31	1.37
36	1	984	G	C5-C4	-9.89	1.31	1.38
85	5	2302	G	C6-N1	-9.88	1.32	1.39
85	5	921	A	N3-C4	-9.88	1.28	1.34
36	1	1375	G	N7-C5	-9.87	1.33	1.39
36	1	2646	C	N1-C6	-9.87	1.31	1.37
85	5	2864	A	C5-C4	-9.87	1.31	1.38
36	1	808	A	C5-C4	-9.87	1.31	1.38
85	5	99	A	N9-C4	-9.87	1.31	1.37
85	5	947	G	N9-C4	-9.87	1.30	1.38
36	1	1156	C	N1-C6	-9.86	1.31	1.37
85	5	970	A	C5-C4	-9.86	1.31	1.38
85	5	2644	C	N3-C4	-9.86	1.27	1.33
36	1	3114	A	C5-C4	-9.84	1.31	1.38
85	5	642	U	C2-N3	-9.84	1.30	1.37
85	5	229	G	N3-C4	-9.84	1.28	1.35
85	5	282	G	C6-N1	-9.84	1.32	1.39
85	5	3	U	N1-C2	9.84	1.47	1.38
36	1	2785	A	N3-C4	-9.83	1.28	1.34
36	1	639	G	N9-C8	-9.83	1.30	1.37
36	1	1468	A	N9-C4	-9.83	1.31	1.37
36	1	2149	A	N9-C4	-9.83	1.31	1.37
36	1	1589	A	N9-C4	-9.83	1.31	1.37
36	1	2976	A	N3-C4	-9.83	1.28	1.34
36	1	1298	C	N1-C6	-9.82	1.31	1.37
36	1	2095	G	N7-C5	9.82	1.45	1.39
85	5	2379	U	N1-C2	-9.82	1.29	1.38
36	1	3277	U	N1-C2	9.81	1.47	1.38
36	1	796	U	C2-O2	-9.81	1.13	1.22
37	7	100	C	N1-C6	-9.81	1.31	1.37
37	3	101	G	N3-C4	-9.80	1.28	1.35
85	5	37	U	N1-C6	-9.80	1.29	1.38
36	1	252	U	N1-C2	9.80	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1891	A	N3-C4	-9.80	1.28	1.34
85	5	351	A	N3-C4	-9.80	1.28	1.34
85	5	2400	G	N7-C5	-9.80	1.33	1.39
80	6	264	G	N9-C8	9.79	1.44	1.37
85	5	509	U	C4-O4	9.79	1.31	1.23
85	5	2145	A	N9-C4	-9.79	1.31	1.37
85	5	925	A	N9-C4	-9.79	1.31	1.37
80	6	94	U	N1-C2	-9.78	1.29	1.38
36	1	1161	G	N7-C5	-9.78	1.33	1.39
85	5	519	A	C5-C6	-9.78	1.32	1.41
36	1	1154	A	C6-N1	-9.78	1.28	1.35
80	6	754	A	N3-C4	9.78	1.40	1.34
85	5	1362	G	C6-N1	-9.78	1.32	1.39
85	5	1444	G	N7-C5	-9.77	1.33	1.39
85	5	2799	A	C6-N1	-9.77	1.28	1.35
36	1	806	A	C5-C6	-9.77	1.32	1.41
36	1	787	G	N7-C5	-9.77	1.33	1.39
38	4	54	A	N7-C5	-9.77	1.33	1.39
36	1	682	U	N1-C2	-9.76	1.29	1.38
36	1	1093	A	N3-C4	9.76	1.40	1.34
36	1	2633	U	N1-C6	-9.76	1.29	1.38
85	5	1140	G	C8-N7	-9.76	1.25	1.30
36	1	1308	A	C6-N1	-9.76	1.28	1.35
80	6	93	A	N3-C4	-9.75	1.28	1.34
85	5	408	A	C6-N1	-9.75	1.28	1.35
85	5	1880	U	C2-O2	-9.75	1.13	1.22
85	5	2353	G	N7-C5	-9.75	1.33	1.39
85	5	61	A	N7-C5	-9.74	1.33	1.39
85	5	914	A	N9-C4	-9.74	1.32	1.37
36	1	2956	A	N7-C5	-9.74	1.33	1.39
85	5	1444	G	C6-O6	9.74	1.32	1.24
85	5	82	C	N1-C6	-9.73	1.31	1.37
85	5	826	G	C5-C6	-9.73	1.32	1.42
85	5	1291	A	N9-C4	-9.73	1.32	1.37
85	5	1377	G	C6-N1	-9.73	1.32	1.39
36	1	1181	U	C2-N3	-9.72	1.30	1.37
85	5	946	U	N1-C6	-9.72	1.29	1.38
38	8	14	C	N1-C6	-9.72	1.31	1.37
36	1	3178	A	N7-C5	-9.72	1.33	1.39
85	5	3388	C	N3-C4	-9.71	1.27	1.33
36	1	2985	C	N1-C6	-9.71	1.31	1.37
36	1	2992	U	N1-C2	-9.71	1.29	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	1781	A	N7-C5	-9.70	1.33	1.39
80	6	46	A	N7-C5	-9.70	1.33	1.39
36	1	666	A	N9-C8	-9.70	1.29	1.37
36	1	915	A	N3-C4	-9.70	1.29	1.34
36	1	1375	G	N9-C8	-9.69	1.31	1.37
85	5	2643	A	C5-C6	-9.69	1.32	1.41
80	6	1131	A	N7-C5	-9.69	1.33	1.39
36	1	751	A	N9-C4	-9.69	1.32	1.37
36	1	1373	A	N3-C4	-9.68	1.29	1.34
85	5	656	A	N9-C4	-9.68	1.32	1.37
36	1	2185	G	N3-C4	-9.67	1.28	1.35
85	5	607	A	N3-C4	-9.67	1.29	1.34
85	5	3312	U	C2-N3	9.67	1.44	1.37
37	3	82	G	N3-C4	-9.67	1.28	1.35
85	5	872	U	C2-N3	-9.67	1.30	1.37
36	1	2910	A	N9-C4	-9.66	1.32	1.37
85	5	91	G	N3-C4	-9.66	1.28	1.35
85	5	1294	A	C6-N1	-9.66	1.28	1.35
38	8	138	A	C5-C4	-9.66	1.31	1.38
36	1	962	A	C6-N1	-9.66	1.28	1.35
36	1	2978	U	N1-C2	9.66	1.47	1.38
36	1	665	A	N7-C5	-9.65	1.33	1.39
36	1	1502	C	N1-C6	-9.65	1.31	1.37
85	5	945	C	N1-C6	-9.65	1.31	1.37
36	1	1859	A	N3-C4	-9.65	1.29	1.34
36	1	2286	U	N3-C4	-9.64	1.29	1.38
85	5	2317	A	C5-C4	-9.64	1.31	1.38
36	1	2704	A	N3-C4	-9.64	1.29	1.34
85	5	3040	A	N3-C4	-9.64	1.29	1.34
85	5	1315	U	N1-C6	-9.64	1.29	1.38
80	6	678	A	C8-N7	9.62	1.38	1.31
85	5	1161	G	C5-C4	-9.62	1.31	1.38
36	1	885	U	C4-O4	-9.62	1.16	1.23
85	5	2318	U	C4-O4	9.62	1.31	1.23
85	5	1841	A	N7-C5	-9.62	1.33	1.39
85	5	3335	A	C5-C6	-9.62	1.32	1.41
85	5	2762	A	N7-C5	-9.62	1.33	1.39
36	1	2610	G	N7-C5	-9.61	1.33	1.39
85	5	1117	G	C5-C4	-9.61	1.31	1.38
36	1	2409	G	C5-C4	-9.61	1.31	1.38
80	6	1663	G	N7-C5	-9.61	1.33	1.39
85	5	1307	G	C5-C4	-9.61	1.31	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2618	G	N1-C2	-9.60	1.30	1.37
85	5	2208	A	C5-C4	9.60	1.45	1.38
85	5	2239	G	N9-C4	-9.60	1.30	1.38
36	1	2746	A	C6-N1	-9.60	1.28	1.35
85	5	172	G	N7-C5	9.60	1.45	1.39
85	5	1440	G	N9-C4	-9.60	1.30	1.38
36	1	267	G	N1-C2	9.59	1.45	1.37
80	6	295	A	C5-C4	-9.59	1.32	1.38
1	2	28	A	N3-C4	-9.59	1.29	1.34
85	5	2341	A	N3-C4	-9.59	1.29	1.34
36	1	284	A	N7-C5	-9.58	1.33	1.39
85	5	893	C	N1-C6	-9.58	1.31	1.37
85	5	1312	C	N1-C2	-9.57	1.30	1.40
85	5	1863	G	C6-O6	9.57	1.32	1.24
85	5	2138	A	N3-C4	-9.57	1.29	1.34
80	6	1756[A]	A	P-OP2	9.57	1.65	1.49
80	6	1756[B]	A	P-OP2	9.57	1.65	1.49
36	1	682	U	C2-N3	-9.57	1.31	1.37
85	5	354	U	N1-C2	-9.56	1.29	1.38
85	5	2275	A	C5-C6	-9.56	1.32	1.41
85	5	2985	C	N3-C4	-9.56	1.27	1.33
36	1	2911	A	N9-C4	-9.55	1.32	1.37
85	5	912	G	N7-C5	-9.55	1.33	1.39
85	5	3023	U	N1-C2	-9.55	1.29	1.38
36	1	811	U	N1-C6	-9.55	1.29	1.38
36	1	361	A	C6-N1	-9.54	1.28	1.35
85	5	54	C	N1-C6	-9.54	1.31	1.37
85	5	1408	G	N9-C4	-9.54	1.30	1.38
85	5	421	G	N1-C2	-9.54	1.30	1.37
85	5	1545	A	N9-C4	-9.54	1.32	1.37
85	5	1069	C	N3-C4	-9.54	1.27	1.33
85	5	1184	A	N3-C4	-9.53	1.29	1.34
1	2	47	A	N7-C5	-9.53	1.33	1.39
85	5	1865	A	N9-C4	-9.53	1.32	1.37
36	1	2608	G	N7-C5	-9.52	1.33	1.39
85	5	3186	A	C6-N1	-9.52	1.28	1.35
36	1	2693	C	N1-C6	-9.52	1.31	1.37
85	5	1867	A	N3-C4	-9.52	1.29	1.34
85	5	3207	U	C2-N3	9.52	1.44	1.37
85	5	3294	A	N3-C4	-9.52	1.29	1.34
37	7	11	A	N9-C4	-9.51	1.32	1.37
85	5	633	C	N1-C6	-9.51	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2798	C	N3-C4	-9.51	1.27	1.33
36	1	815	G	N3-C4	-9.51	1.28	1.35
36	1	1890	U	N1-C2	-9.51	1.29	1.38
85	5	919	U	N1-C2	-9.51	1.29	1.38
85	5	1108	U	N1-C2	-9.51	1.29	1.38
85	5	195	U	N1-C2	-9.50	1.29	1.38
36	1	2605	G	N9-C4	-9.50	1.30	1.38
85	5	2208	A	C5-C6	9.50	1.49	1.41
36	1	52	A	C5-C4	-9.50	1.32	1.38
85	5	3277	U	N1-C6	9.50	1.46	1.38
85	5	817	A	C5-C4	-9.49	1.32	1.38
85	5	1348	U	N1-C2	9.49	1.47	1.38
85	5	2280	A	N9-C4	-9.49	1.32	1.37
36	1	1536	G	C6-N1	-9.49	1.32	1.39
36	1	2864	A	N3-C4	-9.49	1.29	1.34
80	6	1095	U	C4-O4	9.49	1.31	1.23
85	5	3119	U	N1-C2	-9.49	1.30	1.38
85	5	2302	G	N3-C4	-9.49	1.28	1.35
36	1	2919	A	N7-C5	-9.49	1.33	1.39
85	5	2313	A	N9-C4	-9.49	1.32	1.37
1	2	157	A	N9-C4	-9.49	1.32	1.37
85	5	506	U	N1-C6	-9.49	1.29	1.38
36	1	665	A	C5-C4	-9.48	1.32	1.38
80	6	1745	G	N3-C4	-9.48	1.28	1.35
36	1	596	C	N1-C6	-9.48	1.31	1.37
36	1	971	G	C5-C4	-9.48	1.31	1.38
36	1	1308	A	N9-C4	-9.48	1.32	1.37
85	5	2941	A	N9-C4	-9.48	1.32	1.37
85	5	3303	G	C6-N1	-9.48	1.32	1.39
36	1	364	G	N3-C4	-9.47	1.28	1.35
36	1	61	A	C6-N1	-9.47	1.28	1.35
85	5	2363	A	N3-C4	-9.47	1.29	1.34
36	1	1147	G	N9-C8	-9.47	1.31	1.37
36	1	2811	A	C6-N1	-9.47	1.28	1.35
36	1	437	G	C6-N1	9.47	1.46	1.39
36	1	2983	C	N1-C6	-9.46	1.31	1.37
85	5	652	G	N7-C5	9.46	1.45	1.39
36	1	659	G	N7-C5	-9.46	1.33	1.39
36	1	1901	A	N9-C4	-9.45	1.32	1.37
80	6	364	G	N7-C5	-9.45	1.33	1.39
36	1	313	A	N3-C4	-9.45	1.29	1.34
36	1	2174	G	N3-C4	-9.45	1.28	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1405	U	N1-C2	-9.45	1.30	1.38
1	2	508	U	C2-N3	9.45	1.44	1.37
1	2	1336	U	C4-O4	9.44	1.31	1.23
36	1	1348	U	N1-C2	9.44	1.47	1.38
85	5	2275	A	N7-C5	-9.44	1.33	1.39
85	5	1524	A	N9-C4	-9.44	1.32	1.37
85	5	1444	G	N9-C8	-9.43	1.31	1.37
40	l3	314	TYR	CD2-CE2	-9.43	1.25	1.39
36	1	2639	G	N7-C5	-9.43	1.33	1.39
85	5	2429	G	N3-C4	-9.43	1.28	1.35
36	1	935	U	C2-O2	-9.43	1.13	1.22
85	5	1484	U	N1-C6	-9.42	1.29	1.38
85	5	882	A	N3-C4	-9.42	1.29	1.34
85	5	1301	A	C6-N1	-9.42	1.28	1.35
85	5	2369	G	N1-C2	-9.42	1.30	1.37
36	1	699	A	N9-C4	-9.42	1.32	1.37
85	5	1142	G	N3-C4	-9.42	1.28	1.35
85	5	1349	G	N3-C4	9.41	1.42	1.35
85	5	3314	A	N3-C4	-9.41	1.29	1.34
85	5	2404	A	N9-C4	9.41	1.43	1.37
85	5	397	A	N9-C8	-9.40	1.30	1.37
36	1	2097	U	C2-N3	9.40	1.44	1.37
36	1	535	G	N3-C4	-9.40	1.28	1.35
36	1	928	C	N3-C4	-9.40	1.27	1.33
36	1	3140	G	C6-N1	-9.40	1.32	1.39
85	5	1915	A	N3-C4	-9.39	1.29	1.34
85	5	2386	A	C6-N1	-9.39	1.28	1.35
85	5	2809	C	N1-C6	-9.39	1.31	1.37
85	5	3000	A	N9-C4	-9.39	1.32	1.37
41	l4	299	ILE	C-N	-9.39	1.12	1.34
36	1	968	G	C5-C4	-9.39	1.31	1.38
37	3	51	A	N9-C4	9.38	1.43	1.37
36	1	440	A	N7-C5	9.38	1.44	1.39
85	5	1133	A	N7-C5	-9.38	1.33	1.39
85	5	2879	C	N1-C2	-9.38	1.30	1.40
36	1	1116	G	N3-C4	-9.38	1.28	1.35
85	5	846	A	N9-C4	-9.37	1.32	1.37
85	5	1133	A	N9-C4	-9.37	1.32	1.37
85	5	1661	G	P-OP1	9.37	1.64	1.49
85	5	2363	A	N7-C5	-9.37	1.33	1.39
85	5	2635	A	N9-C4	-9.37	1.32	1.37
40	l3	314	TYR	CD1-CE1	-9.37	1.25	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1121	U	N1-C2	-9.37	1.30	1.38
36	1	1057	A	N3-C4	-9.37	1.29	1.34
85	5	1486	G	N3-C4	-9.37	1.28	1.35
85	5	634	C	N1-C6	-9.36	1.31	1.37
85	5	2213	A	N9-C4	-9.36	1.32	1.37
36	1	2864	A	N9-C4	-9.36	1.32	1.37
85	5	2312	A	C5-C4	-9.36	1.32	1.38
85	5	1612	A	N3-C4	-9.35	1.29	1.34
85	5	2335	G	C6-N1	-9.35	1.33	1.39
36	1	1391	C	N1-C6	-9.35	1.31	1.37
36	1	2704	A	C6-N1	-9.35	1.29	1.35
80	6	1119	G	N7-C5	-9.35	1.33	1.39
36	1	402	A	N9-C8	-9.34	1.30	1.37
85	5	953	G	N3-C4	-9.34	1.28	1.35
13	c1	128	CYS	CB-SG	-9.34	1.66	1.82
85	5	2624	G	N7-C5	-9.34	1.33	1.39
85	5	2985	C	C2-N3	-9.34	1.28	1.35
85	5	1047	A	C5-C6	-9.34	1.32	1.41
80	6	742	U	N3-C4	9.34	1.46	1.38
85	5	918	C	C2-N3	9.34	1.43	1.35
36	1	933	A	N3-C4	-9.33	1.29	1.34
36	1	1429	G	N9-C8	-9.33	1.31	1.37
85	5	2943	G	N7-C5	-9.33	1.33	1.39
85	5	780	A	N9-C4	-9.33	1.32	1.37
85	5	820	A	C6-N1	-9.33	1.29	1.35
85	5	3181	C	N1-C6	-9.32	1.31	1.37
36	1	614	C	N1-C6	-9.32	1.31	1.37
85	5	364	G	N3-C4	-9.32	1.28	1.35
36	1	2132	C	N1-C6	-9.32	1.31	1.37
37	3	82	G	N7-C5	-9.31	1.33	1.39
85	5	1303	A	N3-C4	-9.31	1.29	1.34
85	5	1317	A	N9-C4	-9.31	1.32	1.37
36	1	102	C	N1-C6	-9.31	1.31	1.37
85	5	2380	U	N1-C6	-9.31	1.29	1.38
85	5	194	U	C2-N3	-9.31	1.31	1.37
85	5	609	G	N9-C4	-9.31	1.30	1.38
85	5	2417	U	C2-N3	9.31	1.44	1.37
85	5	3067	C	N3-C4	-9.31	1.27	1.33
85	5	1348	U	N3-C4	9.30	1.46	1.38
85	5	3343	G	C6-O6	9.30	1.32	1.24
1	2	47	A	N3-C4	-9.30	1.29	1.34
85	5	367	A	C5-C6	-9.30	1.32	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	909	G	N9-C8	-9.30	1.31	1.37
85	5	2620	G	C6-N1	-9.29	1.33	1.39
36	1	94	G	C6-N1	-9.29	1.33	1.39
36	1	1352	A	C6-N1	9.29	1.42	1.35
36	1	967	A	N7-C5	-9.29	1.33	1.39
85	5	2381	G	N3-C4	-9.29	1.28	1.35
36	1	505	G	N3-C4	-9.28	1.28	1.35
36	1	1441	G	C6-N1	-9.28	1.33	1.39
36	1	2881	C	N1-C6	-9.28	1.31	1.37
36	1	2971	A	N7-C5	-9.28	1.33	1.39
85	5	1332	A	N3-C4	-9.28	1.29	1.34
85	5	2893	C	N1-C2	-9.28	1.30	1.40
36	1	1346	G	N3-C4	-9.28	1.28	1.35
36	1	2426	U	C2-N3	-9.28	1.31	1.37
36	1	2609	A	N3-C4	-9.28	1.29	1.34
85	5	2245	C	N1-C6	-9.28	1.31	1.37
36	1	3275	U	C2-O2	9.28	1.30	1.22
85	5	3052	G	N3-C4	-9.28	1.28	1.35
36	1	970	A	C6-N1	-9.28	1.29	1.35
36	1	82	C	N1-C6	-9.27	1.31	1.37
36	1	810	A	N7-C5	-9.27	1.33	1.39
85	5	2851	A	N7-C5	-9.27	1.33	1.39
36	1	2657	A	C6-N1	-9.27	1.29	1.35
37	7	101	G	N9-C4	-9.27	1.30	1.38
38	4	1	A	N9-C4	-9.26	1.32	1.37
85	5	1350	A	N9-C4	9.26	1.43	1.37
36	1	1352	A	C5-C4	9.26	1.45	1.38
85	5	2736	A	N3-C4	-9.26	1.29	1.34
36	1	1116	G	N9-C8	-9.26	1.31	1.37
36	1	2403	G	N3-C4	-9.26	1.28	1.35
36	1	437	G	N7-C5	9.25	1.44	1.39
36	1	3011	A	C5-C4	-9.25	1.32	1.38
85	5	817	A	C5-C6	-9.25	1.32	1.41
85	5	2784	G	C6-N1	-9.25	1.33	1.39
37	7	99	G	C6-N1	-9.25	1.33	1.39
36	1	68	C	N1-C6	-9.25	1.31	1.37
36	1	972	A	N3-C4	-9.25	1.29	1.34
36	1	364	G	C6-N1	-9.25	1.33	1.39
85	5	3125	U	N1-C2	-9.25	1.30	1.38
85	5	40	A	N7-C5	-9.24	1.33	1.39
36	1	897	U	C2-N3	-9.24	1.31	1.37
36	1	1400	G	N9-C8	-9.24	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2207	A	N3-C4	9.24	1.40	1.34
85	5	358	G	N3-C4	-9.24	1.28	1.35
36	1	2208	A	N9-C4	9.24	1.43	1.37
36	1	55	G	N9-C8	-9.23	1.31	1.37
36	1	984	G	N7-C5	-9.23	1.33	1.39
85	5	1868	G	N7-C5	-9.23	1.33	1.39
85	5	1307	G	N9-C8	-9.23	1.31	1.37
85	5	2364	G	N7-C5	-9.23	1.33	1.39
36	1	2607	G	N7-C5	-9.23	1.33	1.39
85	5	639	G	N3-C4	-9.23	1.28	1.35
85	5	2329	C	N1-C6	-9.23	1.31	1.37
85	5	1115	G	N7-C5	-9.23	1.33	1.39
68	O2	57	TYR	CD2-CE2	-9.22	1.25	1.39
36	1	1435	A	C5-C4	-9.22	1.32	1.38
80	6	1264	G	C5-C4	9.22	1.44	1.38
85	5	2138	A	N7-C5	-9.22	1.33	1.39
85	5	647	A	C6-N1	-9.22	1.29	1.35
36	1	912	G	N7-C5	-9.21	1.33	1.39
85	5	1129	A	N7-C5	-9.21	1.33	1.39
36	1	2837	A	N3-C4	-9.21	1.29	1.34
80	6	1075	C	P-OP1	9.21	1.64	1.49
85	5	367	A	N3-C4	-9.21	1.29	1.34
36	1	904	A	C6-N1	-9.21	1.29	1.35
36	1	917	A	C5-C4	-9.20	1.32	1.38
85	5	907	G	N9-C8	-9.20	1.31	1.37
85	5	2798	C	N1-C6	-9.20	1.31	1.37
36	1	2409	G	N3-C4	-9.20	1.29	1.35
80	6	1418	G	C6-O6	9.20	1.32	1.24
85	5	275	U	C2-N3	-9.20	1.31	1.37
85	5	712	G	N9-C8	-9.20	1.31	1.37
85	5	787	G	N9-C8	-9.19	1.31	1.37
85	5	3239	G	N9-C8	9.20	1.44	1.37
85	5	2737	C	N1-C6	-9.19	1.31	1.37
80	6	818	C	C5-C6	9.19	1.41	1.34
36	1	934	G	N3-C4	-9.19	1.29	1.35
80	6	628	G	C6-N1	-9.19	1.33	1.39
36	1	1395	G	C6-N1	-9.18	1.33	1.39
85	5	23	A	N7-C5	-9.18	1.33	1.39
85	5	895	A	N3-C4	-9.18	1.29	1.34
85	5	1332	A	C6-N1	-9.18	1.29	1.35
36	1	962	A	C5-C4	-9.18	1.32	1.38
36	1	1799	A	N9-C4	-9.18	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	8	11	C	N1-C6	-9.18	1.31	1.37
85	5	2848	G	N3-C4	-9.18	1.29	1.35
36	1	812	G	N9-C4	-9.17	1.30	1.38
85	5	2392	C	C2-N3	-9.17	1.28	1.35
85	5	2850	G	N9-C8	-9.17	1.31	1.37
36	1	547	G	N1-C2	9.17	1.45	1.37
85	5	1461	A	N3-C4	-9.17	1.29	1.34
36	1	27	C	N1-C6	-9.17	1.31	1.37
36	1	914	A	N3-C4	-9.17	1.29	1.34
36	1	2425	G	C6-N1	-9.17	1.33	1.39
85	5	1874	A	N7-C5	-9.17	1.33	1.39
85	5	2637	A	C6-N1	-9.16	1.29	1.35
85	5	1764	U	N1-C2	9.16	1.46	1.38
85	5	2415	C	N1-C6	-9.16	1.31	1.37
36	1	2697	A	C6-N1	-9.16	1.29	1.35
36	1	2957	G	N3-C4	-9.16	1.29	1.35
85	5	937	G	N9-C8	-9.16	1.31	1.37
36	1	37	U	N1-C6	-9.16	1.29	1.38
80	6	463	U	C2-N3	9.16	1.44	1.37
85	5	1303	A	N9-C4	-9.16	1.32	1.37
38	8	99	C	N1-C6	-9.16	1.31	1.37
80	6	441	A	C6-N1	-9.15	1.29	1.35
36	1	2296	A	N3-C4	-9.15	1.29	1.34
36	1	1578	C	N3-C4	9.15	1.40	1.33
80	6	313	U	N1-C6	-9.15	1.29	1.38
36	1	952	A	N3-C4	-9.15	1.29	1.34
85	5	1152	G	N9-C4	-9.14	1.30	1.38
36	1	19	U	C2-N3	-9.14	1.31	1.37
36	1	1432	C	N3-C4	-9.14	1.27	1.33
85	5	2618	G	C6-N1	-9.14	1.33	1.39
38	4	17	A	N3-C4	-9.13	1.29	1.34
85	5	1429	G	N9-C4	-9.13	1.30	1.38
36	1	808	A	N1-C2	-9.13	1.26	1.34
36	1	1394	A	C5-C4	-9.12	1.32	1.38
85	5	2188	A	C6-N1	-9.12	1.29	1.35
85	5	2883	U	N1-C6	-9.13	1.29	1.38
85	5	1903	U	C2-N3	9.12	1.44	1.37
85	5	1914	G	N3-C4	-9.12	1.29	1.35
85	5	2891	U	C2-N3	-9.12	1.31	1.37
85	5	504	A	C5-C6	-9.12	1.32	1.41
36	1	2902	A	N3-C4	-9.12	1.29	1.34
85	5	3093	C	N1-C2	-9.12	1.31	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	3395	G	C2'-O2'	9.12	1.53	1.41
36	1	943	U	N1-C2	-9.11	1.30	1.38
80	6	1659	A	N9-C4	-9.11	1.32	1.37
36	1	2523	A	N9-C4	9.10	1.43	1.37
38	8	15	G	N3-C4	-9.10	1.29	1.35
36	1	2892	A	N9-C4	-9.10	1.32	1.37
85	5	2958	A	N3-C4	-9.10	1.29	1.34
36	1	1157	G	C6-N1	-9.10	1.33	1.39
36	1	1907	C	N1-C6	-9.10	1.31	1.37
36	1	1172	G	N9-C4	-9.10	1.30	1.38
36	1	3130	A	N7-C5	-9.10	1.33	1.39
85	5	804	C	N1-C6	-9.10	1.31	1.37
85	5	1390	A	C6-N1	-9.10	1.29	1.35
36	1	56	G	C5-C6	-9.09	1.33	1.42
85	5	2320	A	N3-C4	-9.09	1.29	1.34
85	5	2877	G	N7-C5	9.09	1.44	1.39
36	1	1409	G	N9-C8	-9.09	1.31	1.37
36	1	2636	A	N7-C5	-9.09	1.33	1.39
85	5	1688	U	N1-C2	9.09	1.46	1.38
85	5	883	A	C6-N1	-9.09	1.29	1.35
36	1	1148	G	C5-C6	-9.08	1.33	1.42
36	1	1905	G	N3-C4	-9.08	1.29	1.35
36	1	2931	C	N1-C6	-9.08	1.31	1.37
85	5	235	A	N3-C4	-9.08	1.29	1.34
36	1	651	G	C5-C4	-9.08	1.31	1.38
85	5	1456	A	N3-C4	-9.08	1.29	1.34
36	1	619	A	C5-C4	9.07	1.45	1.38
36	1	3143	C	N1-C6	-9.07	1.31	1.37
36	1	2127	U	N1-C2	-9.07	1.30	1.38
36	1	2619	G	C6-O6	-9.07	1.16	1.24
85	5	2872	A	N9-C4	-9.07	1.32	1.37
36	1	780	A	N7-C5	-9.07	1.33	1.39
85	5	2644	C	N1-C6	-9.07	1.31	1.37
36	1	2141	U	C2-N3	-9.06	1.31	1.37
38	8	20	U	N1-C2	-9.06	1.30	1.38
36	1	578	A	C5-C4	-9.06	1.32	1.38
36	1	336	A	N7-C5	9.06	1.44	1.39
85	5	2247	G	N3-C4	-9.06	1.29	1.35
80	6	99	C	N1-C6	-9.05	1.31	1.37
85	5	1213	G	N9-C4	-9.05	1.30	1.38
36	1	3309	G	N3-C4	-9.05	1.29	1.35
36	1	583	G	N9-C4	-9.04	1.30	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	987	G	C8-N7	9.04	1.36	1.30
85	5	2113	A	C6-N1	-9.04	1.29	1.35
36	1	2145	A	N9-C4	-9.04	1.32	1.37
36	1	585	A	N3-C4	-9.04	1.29	1.34
36	1	894	G	N7-C5	-9.04	1.33	1.39
85	5	2244	A	N3-C4	-9.04	1.29	1.34
85	5	2603	G	N7-C5	9.04	1.44	1.39
85	5	1919	G	N3-C4	-9.04	1.29	1.35
36	1	60	A	N3-C4	-9.03	1.29	1.34
36	1	76	G	C6-N1	-9.03	1.33	1.39
36	1	307	A	C6-N1	-9.03	1.29	1.35
36	1	2365	C	N1-C6	-9.03	1.31	1.37
85	5	1438	U	N1-C2	-9.03	1.30	1.38
85	5	2732	G	P-OP2	9.03	1.64	1.49
36	1	1660	C	N1-C6	-9.03	1.31	1.37
36	1	1164	G	N9-C8	-9.03	1.31	1.37
85	5	235	A	N9-C4	-9.03	1.32	1.37
36	1	2896	A	N9-C8	-9.02	1.30	1.37
36	1	656	A	N7-C5	-9.02	1.33	1.39
85	5	1294	A	N9-C4	-9.02	1.32	1.37
85	5	2895	G	N3-C4	-9.02	1.29	1.35
80	6	163	G	N9-C4	-9.01	1.30	1.38
36	1	1370	G	N7-C5	-9.01	1.33	1.39
85	5	774	G	C6-N1	9.01	1.45	1.39
85	5	1405	U	N1-C6	-9.01	1.29	1.38
85	5	3275	U	N1-C2	9.01	1.46	1.38
85	5	965	A	N7-C5	-9.01	1.33	1.39
36	1	2972	G	C2-N2	9.00	1.43	1.34
85	5	2348	A	N7-C5	-9.00	1.33	1.39
36	1	1320	C	N1-C6	-9.00	1.31	1.37
85	5	1318	A	C6-N1	-9.00	1.29	1.35
36	1	921	A	N1-C2	-9.00	1.26	1.34
36	1	1126	G	N7-C5	-9.00	1.33	1.39
38	4	27	U	C2-N3	-9.00	1.31	1.37
80	6	204	G	N9-C8	9.00	1.44	1.37
85	5	1321	G	N3-C4	-9.00	1.29	1.35
85	5	3090	U	N1-C2	-9.00	1.30	1.38
36	1	1377	G	N7-C5	-8.99	1.33	1.39
36	1	2618	G	N3-C4	-8.99	1.29	1.35
85	5	2138	A	N9-C4	-8.99	1.32	1.37
85	5	2754	G	N3-C4	-8.99	1.29	1.35
85	5	2909	U	C2-N3	-8.99	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	510	G	N7-C5	-8.99	1.33	1.39
36	1	2138	A	C5-C6	-8.99	1.32	1.41
85	5	278	U	N1-C2	-8.99	1.30	1.38
36	1	2756	C	N3-C4	-8.98	1.27	1.33
38	8	15	G	C6-N1	-8.98	1.33	1.39
80	6	94	U	N3-C4	-8.98	1.30	1.38
85	5	649	A	N7-C5	-8.98	1.33	1.39
85	5	2275	A	C5-C4	-8.98	1.32	1.38
85	5	3032	A	N7-C5	-8.98	1.33	1.39
36	1	1150	A	C5-C4	-8.98	1.32	1.38
36	1	1133	A	N3-C4	-8.98	1.29	1.34
85	5	3130	A	N3-C4	-8.97	1.29	1.34
36	1	625	G	C6-N1	-8.97	1.33	1.39
38	4	4	C	N1-C6	-8.97	1.31	1.37
85	5	1934	G	N1-C2	8.97	1.45	1.37
85	5	1136	A	N3-C4	-8.97	1.29	1.34
36	1	928	C	N1-C6	-8.96	1.31	1.37
36	1	1761	C	N1-C6	8.96	1.42	1.37
85	5	1293	U	N1-C6	-8.96	1.29	1.38
85	5	3003	G	N9-C4	-8.96	1.30	1.38
36	1	1458	U	N1-C2	-8.96	1.30	1.38
85	5	1152	G	N7-C5	-8.96	1.33	1.39
85	5	2715	A	N7-C5	-8.96	1.33	1.39
85	5	163	C	N1-C6	8.95	1.42	1.37
85	5	3056	U	N1-C2	-8.95	1.30	1.38
85	5	1901	A	N3-C4	-8.95	1.29	1.34
36	1	505	G	C5-C4	-8.95	1.32	1.38
36	1	871	U	N1-C2	-8.95	1.30	1.38
85	5	2363	A	C5-C6	-8.95	1.32	1.41
37	7	51	A	N3-C4	-8.95	1.29	1.34
38	4	33	A	N9-C4	-8.94	1.32	1.37
85	5	195	U	N1-C6	-8.94	1.29	1.38
85	5	1454	A	N9-C4	-8.94	1.32	1.37
85	5	2644	C	C2-N3	-8.94	1.28	1.35
80	6	635	A	N3-C4	-8.94	1.29	1.34
85	5	3111	U	N1-C2	-8.94	1.30	1.38
36	1	2502	A	N3-C4	8.93	1.40	1.34
85	5	933	A	N9-C4	-8.93	1.32	1.37
85	5	2895	G	N9-C8	-8.93	1.31	1.37
36	1	283	G	N7-C5	-8.93	1.33	1.39
80	6	241	U	C2-N3	8.93	1.44	1.37
85	5	868	C	N1-C2	-8.93	1.31	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2	729	A	N9-C4	-8.93	1.32	1.37
85	5	2580	A	C2'-O2'	8.93	1.53	1.41
36	1	969	C	N1-C6	-8.92	1.31	1.37
38	4	116	G	N9-C4	-8.92	1.30	1.38
52	m6	16	VAL	CB-CG2	-8.92	1.34	1.52
80	6	1300	A	C6-N1	-8.92	1.29	1.35
85	5	2123	G	N9-C4	-8.92	1.30	1.38
36	1	439	C	N1-C6	8.92	1.42	1.37
80	6	448	C	N1-C6	-8.92	1.31	1.37
85	5	1332	A	C5-C6	-8.92	1.33	1.41
85	5	2401	A	C5-C6	8.92	1.49	1.41
85	5	953	G	C5-C6	-8.91	1.33	1.42
85	5	1490	A	C6-N1	-8.91	1.29	1.35
85	5	2833	A	N3-C4	-8.91	1.29	1.34
36	1	67	A	N3-C4	-8.91	1.29	1.34
85	5	2401	A	C5-C4	8.91	1.45	1.38
85	5	3277	U	C2-N3	8.91	1.44	1.37
38	8	17	A	C5-C6	-8.91	1.33	1.41
85	5	609	G	N3-C4	-8.91	1.29	1.35
85	5	2702	A	N9-C4	-8.91	1.32	1.37
36	1	2396	G	N7-C5	-8.90	1.33	1.39
36	1	2645	G	N9-C8	-8.90	1.31	1.37
80	6	1749	A	N9-C4	-8.90	1.32	1.37
36	1	3310	A	N7-C5	-8.90	1.33	1.39
85	5	2368	A	C6-N1	-8.90	1.29	1.35
85	5	2881	C	N1-C6	-8.90	1.31	1.37
36	1	3005	A	N7-C5	-8.89	1.33	1.39
85	5	614	C	C2-N3	-8.89	1.28	1.35
85	5	963	G	C6-N1	-8.89	1.33	1.39
36	1	2833	A	N9-C4	-8.89	1.32	1.37
85	5	2354	C	N1-C6	-8.89	1.31	1.37
36	1	996	A	C6-N1	-8.89	1.29	1.35
85	5	2598	G	N7-C5	-8.89	1.33	1.39
36	1	287	G	N7-C5	-8.89	1.33	1.39
36	1	2991	A	N9-C4	-8.89	1.32	1.37
38	4	99	C	N1-C6	-8.89	1.31	1.37
36	1	1379	G	N3-C4	-8.88	1.29	1.35
36	1	2862	U	C2-N3	-8.88	1.31	1.37
85	5	2199	G	N7-C5	-8.88	1.33	1.39
85	5	2824	G	N7-C5	-8.88	1.33	1.39
36	1	79	U	C2-O2	-8.88	1.14	1.22
36	1	1825	G	N9-C4	-8.88	1.30	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	722	G	N9-C8	-8.88	1.31	1.37
85	5	2908	G	N9-C4	-8.88	1.30	1.38
36	1	2375	G	N9-C8	-8.88	1.31	1.37
85	5	1870	C	N1-C6	-8.88	1.31	1.37
85	5	3135	U	N3-C4	-8.88	1.30	1.38
36	1	2169	G	N9-C4	8.88	1.45	1.38
85	5	2885	C	C2-N3	-8.87	1.28	1.35
85	5	2973	G	N3-C4	-8.87	1.29	1.35
36	1	1933	A	N9-C4	-8.87	1.32	1.37
36	1	2296	A	C5-C4	-8.87	1.32	1.38
36	1	1202	A	N7-C5	-8.86	1.33	1.39
85	5	1103	A	N9-C4	8.86	1.43	1.37
85	5	1356	U	C2-N3	8.86	1.44	1.37
36	1	2333	C	N3-C4	-8.86	1.27	1.33
36	1	1101	G	N9-C8	-8.86	1.31	1.37
85	5	2602	G	N3-C4	-8.86	1.29	1.35
42	15	62	CYS	CB-SG	-8.86	1.67	1.82
85	5	1309	U	N1-C6	-8.85	1.29	1.38
36	1	1202	A	C5-C6	-8.85	1.33	1.41
36	1	2727	A	N3-C4	-8.85	1.29	1.34
85	5	3106	A	N3-C4	-8.85	1.29	1.34
85	5	1779	C	C2'-O2'	8.84	1.53	1.41
38	4	52	A	N3-C4	-8.84	1.29	1.34
38	8	3	A	C5-C4	-8.84	1.32	1.38
80	6	1659	A	C6-N1	-8.84	1.29	1.35
85	5	798	G	N3-C4	-8.84	1.29	1.35
85	5	3276	G	N7-C5	8.84	1.44	1.39
85	5	658	G	N7-C5	-8.84	1.33	1.39
36	1	1152	G	C6-N1	-8.84	1.33	1.39
36	1	1154	A	N7-C5	-8.84	1.33	1.39
36	1	1382	G	C5-C4	-8.84	1.32	1.38
80	6	1765	A	N9-C4	-8.84	1.32	1.37
85	5	417	A	C5-C4	-8.84	1.32	1.38
85	5	1199	C	N1-C2	-8.84	1.31	1.40
85	5	1134	G	N3-C4	-8.83	1.29	1.35
85	5	2968	G	N1-C2	-8.83	1.30	1.37
38	4	25	G	N9-C8	-8.83	1.31	1.37
85	5	824	C	N1-C6	-8.83	1.31	1.37
85	5	325	A	N3-C4	-8.83	1.29	1.34
85	5	1924	U	N3-C4	-8.83	1.30	1.38
85	5	2960	C	N3-C4	-8.83	1.27	1.33
36	1	1655	G	C6-N1	-8.83	1.33	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	3106	A	C6-N1	-8.83	1.29	1.35
85	5	515	C	N1-C2	-8.82	1.31	1.40
85	5	1497	C	N1-C2	-8.82	1.31	1.40
38	8	85	G	N7-C5	8.82	1.44	1.39
36	1	2957	G	N9-C4	-8.82	1.30	1.38
80	6	1495	C	P-OP1	8.82	1.64	1.49
85	5	2960	C	N1-C6	-8.82	1.31	1.37
36	1	2799	A	C6-N1	-8.82	1.29	1.35
36	1	1762	C	C2-N3	8.81	1.42	1.35
38	4	138	A	N3-C4	-8.81	1.29	1.34
80	6	347	G	C6-N1	8.81	1.45	1.39
85	5	1203	A	N3-C4	-8.81	1.29	1.34
85	5	1350	A	N3-C4	8.81	1.40	1.34
85	5	2602	G	C6-N1	-8.81	1.33	1.39
85	5	1874	A	C5-C6	-8.81	1.33	1.41
36	1	1135	A	N3-C4	-8.80	1.29	1.34
36	1	1557	A	N9-C4	-8.80	1.32	1.37
85	5	3350	C	N1-C6	8.80	1.42	1.37
36	1	879	U	C2-N3	-8.80	1.31	1.37
36	1	637	C	C2-N3	-8.80	1.28	1.35
80	6	122	U	N3-C4	8.79	1.46	1.38
85	5	2166	A	N9-C4	-8.79	1.32	1.37
36	1	2619	G	N3-C4	-8.79	1.29	1.35
80	6	295	A	N9-C4	-8.79	1.32	1.37
37	3	41	G	N7-C5	-8.79	1.33	1.39
80	6	333	A	N3-C4	-8.79	1.29	1.34
85	5	1497	C	N1-C6	-8.79	1.31	1.37
36	1	88	A	N9-C4	-8.78	1.32	1.37
85	5	3008	A	N9-C8	-8.78	1.30	1.37
85	5	1177	G	C6-N1	-8.78	1.33	1.39
36	1	98	G	N9-C4	-8.78	1.30	1.38
85	5	833	G	C6-N1	-8.78	1.33	1.39
85	5	523	A	N3-C4	-8.78	1.29	1.34
36	1	228	U	C2-N3	-8.78	1.31	1.37
36	1	857	G	N7-C5	-8.78	1.33	1.39
85	5	1733	G	C8-N7	8.78	1.36	1.30
85	5	2928	C	N1-C6	-8.78	1.31	1.37
36	1	3181	C	N3-C4	-8.77	1.27	1.33
85	5	592	A	N9-C4	-8.77	1.32	1.37
85	5	2919	A	N9-C4	-8.77	1.32	1.37
1	2	1188	C	N1-C6	-8.77	1.31	1.37
36	1	44	U	C2-N3	-8.77	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	648	C	N1-C6	-8.77	1.31	1.37
85	5	1850	A	N9-C4	-8.77	1.32	1.37
85	5	2337	C	N1-C6	-8.77	1.31	1.37
85	5	3173	G	C6-N1	-8.77	1.33	1.39
85	5	2119	A	C5-C6	-8.77	1.33	1.41
36	1	915	A	N9-C4	-8.76	1.32	1.37
85	5	2698	G	N9-C8	-8.76	1.31	1.37
36	1	79	U	N3-C4	-8.76	1.30	1.38
36	1	1392	G	C5-C4	-8.76	1.32	1.38
38	4	52	A	C6-N1	-8.76	1.29	1.35
80	6	1659	A	N7-C5	-8.76	1.33	1.39
85	5	1127	G	N9-C8	-8.76	1.31	1.37
85	5	2172	A	C5-C6	-8.76	1.33	1.41
36	1	672	A	C5-C6	-8.76	1.33	1.41
36	1	970	A	C5-C4	-8.76	1.32	1.38
36	1	1132	C	N3-C4	-8.76	1.27	1.33
85	5	2610	G	N7-C5	-8.76	1.33	1.39
36	1	2128	C	N3-C4	-8.75	1.27	1.33
36	1	2377	G	N9-C4	-8.75	1.30	1.38
85	5	3059	G	C6-N1	-8.75	1.33	1.39
85	5	1432	C	C2-O2	-8.75	1.16	1.24
36	1	662	U	N1-C2	-8.75	1.30	1.38
36	1	3273	A	C5-C4	-8.75	1.32	1.38
85	5	2628	A	N3-C4	-8.75	1.29	1.34
85	5	2966	G	C5-C6	-8.75	1.33	1.42
36	1	33	G	N9-C8	-8.75	1.31	1.37
36	1	1196	C	N1-C6	8.75	1.42	1.37
85	5	2233	A	N3-C4	-8.75	1.29	1.34
85	5	879	U	N1-C6	-8.75	1.30	1.38
85	5	2428	U	N1-C2	-8.75	1.30	1.38
85	5	2303	A	N9-C4	-8.74	1.32	1.37
85	5	599	C	N1-C6	-8.74	1.31	1.37
85	5	793	C	C4-C5	-8.74	1.35	1.43
85	5	2317	A	N3-C4	-8.74	1.29	1.34
37	7	80	G	N1-C2	-8.74	1.30	1.37
36	1	2368	A	N3-C4	-8.74	1.29	1.34
36	1	2967	A	N3-C4	-8.74	1.29	1.34
85	5	996	A	N7-C5	-8.74	1.34	1.39
36	1	2684	C	N1-C6	-8.73	1.31	1.37
85	5	2380	U	N1-C2	-8.73	1.30	1.38
36	1	955	U	N1-C2	-8.73	1.30	1.38
85	5	666	A	N9-C4	-8.73	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	3311	C	N1-C2	-8.73	1.31	1.40
36	1	1196	C	N3-C4	8.73	1.40	1.33
85	5	1897	G	N7-C5	-8.73	1.34	1.39
85	5	2381	G	C6-N1	-8.73	1.33	1.39
85	5	1889	G	C5-C4	-8.72	1.32	1.38
36	1	1099	A	N9-C4	-8.72	1.32	1.37
85	5	425	G	N3-C4	-8.72	1.29	1.35
36	1	621	A	C6-N1	8.71	1.41	1.35
36	1	2387	A	C5-C6	-8.72	1.33	1.41
36	1	2820	A	N7-C5	-8.72	1.34	1.39
85	5	164	A	N9-C4	8.72	1.43	1.37
85	5	391	A	N3-C4	-8.71	1.29	1.34
85	5	1063	G	N7-C5	-8.71	1.34	1.39
36	1	1495	U	N1-C6	-8.71	1.30	1.38
36	1	943	U	N1-C6	-8.71	1.30	1.38
36	1	1355	A	N7-C5	8.71	1.44	1.39
36	1	1114	U	C2-N3	-8.71	1.31	1.37
36	1	1175	C	N1-C6	-8.71	1.31	1.37
36	1	1142	G	N9-C8	-8.71	1.31	1.37
36	1	3265	C	N1-C6	-8.71	1.31	1.37
38	4	35	C	N1-C6	-8.71	1.31	1.37
85	5	1662	G	N3-C4	-8.71	1.29	1.35
85	5	2950	G	N7-C5	-8.71	1.34	1.39
85	5	3052	G	N9-C8	-8.71	1.31	1.37
48	M1	144	CYS	CB-SG	-8.71	1.67	1.82
80	6	102	U	N1-C2	-8.70	1.30	1.38
36	1	2209	U	C2-N3	8.70	1.43	1.37
85	5	1889	G	C5-C6	-8.70	1.33	1.42
85	5	2386	A	N7-C5	-8.70	1.34	1.39
85	5	2741	C	N1-C2	-8.70	1.31	1.40
36	1	2732	G	C6-N1	-8.70	1.33	1.39
85	5	508	U	C4-O4	8.70	1.30	1.23
85	5	3310	A	C5-C4	-8.70	1.32	1.38
36	1	808	A	C6-N1	-8.70	1.29	1.35
36	1	865	U	N3-C4	-8.70	1.30	1.38
36	1	1176	C	N1-C6	-8.70	1.31	1.37
85	5	2858	U	C2-N3	-8.70	1.31	1.37
36	1	1348	U	C2-N3	8.69	1.43	1.37
85	5	858	A	N9-C4	-8.70	1.32	1.37
85	5	2703	A	N7-C5	-8.70	1.34	1.39
36	1	25	U	N1-C2	-8.69	1.30	1.38
85	5	2734	A	N3-C4	-8.69	1.29	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2871	G	N7-C5	8.69	1.44	1.39
36	1	583	G	C6-N1	-8.69	1.33	1.39
80	6	1103	U	C2-N3	-8.69	1.31	1.37
85	5	2929	C	N3-C4	-8.69	1.27	1.33
36	1	760	G	N3-C4	-8.69	1.29	1.35
36	1	290	G	C5-C4	-8.69	1.32	1.38
36	1	630	A	C5-C4	-8.68	1.32	1.38
36	1	1105	A	N9-C4	-8.68	1.32	1.37
56	n0	9	VAL	CB-CG2	-8.68	1.34	1.52
36	1	2761	G	N9-C8	-8.68	1.31	1.37
36	1	3155	U	N1-C2	8.68	1.46	1.38
36	1	2853	A	N3-C4	-8.68	1.29	1.34
36	1	2918	G	N7-C5	-8.68	1.34	1.39
36	1	2838	A	N9-C4	-8.68	1.32	1.37
85	5	1047	A	N3-C4	-8.68	1.29	1.34
85	5	1648	A	N9-C4	-8.68	1.32	1.37
36	1	711	A	C5-C4	-8.67	1.32	1.38
85	5	629	U	N1-C2	-8.67	1.30	1.38
36	1	682	U	N1-C6	-8.67	1.30	1.38
36	1	3086	A	N3-C4	-8.67	1.29	1.34
80	6	678	A	N9-C8	8.67	1.44	1.37
37	7	96	U	N1-C2	-8.67	1.30	1.38
85	5	343	U	N1-C2	-8.67	1.30	1.38
85	5	2724	U	C2-N3	8.67	1.43	1.37
80	6	94	U	N1-C6	-8.67	1.30	1.38
85	5	2358	A	N7-C5	-8.67	1.34	1.39
80	6	1747	G	N9-C4	-8.66	1.31	1.38
85	5	1189	C	N1-C2	-8.66	1.31	1.40
36	1	962	A	N9-C4	-8.66	1.32	1.37
85	5	509	U	N1-C2	-8.66	1.30	1.38
85	5	919	U	N3-C4	-8.66	1.30	1.38
38	8	50	C	N1-C6	-8.66	1.31	1.37
85	5	433	A	N7-C5	-8.66	1.34	1.39
85	5	872	U	C4-C5	-8.66	1.35	1.43
38	4	138	A	C5-C6	-8.65	1.33	1.41
36	1	2824	G	C2-N3	-8.65	1.25	1.32
40	13	168	LYS	C-N	-8.65	1.14	1.34
36	1	1373	A	C5-C4	-8.65	1.32	1.38
36	1	2958	A	C6-N1	-8.65	1.29	1.35
85	5	266	A	N3-C4	-8.65	1.29	1.34
36	1	867	G	N3-C4	-8.64	1.29	1.35
36	1	699	A	N3-C4	-8.64	1.29	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2941	A	N7-C5	-8.64	1.34	1.39
36	1	883	A	N3-C4	-8.64	1.29	1.34
36	1	2976	A	C6-N1	-8.64	1.29	1.35
36	1	3243	A	N3-C4	-8.64	1.29	1.34
85	5	2946	A	N7-C5	-8.64	1.34	1.39
36	1	1459	C	C2-O2	-8.64	1.16	1.24
36	1	1898	G	C5-C4	-8.64	1.32	1.38
85	5	2342	U	C2-N3	-8.64	1.31	1.37
36	1	522	A	C5-C6	-8.63	1.33	1.41
36	1	2911	A	N3-C4	-8.63	1.29	1.34
36	1	1141	C	N1-C6	-8.63	1.31	1.37
85	5	2172	A	N3-C4	-8.63	1.29	1.34
36	1	299	G	N7-C5	-8.63	1.34	1.39
36	1	1111	U	N1-C2	-8.63	1.30	1.38
80	6	1728	A	N3-C4	-8.63	1.29	1.34
85	5	2894	C	N1-C6	-8.63	1.31	1.37
85	5	2671	A	N9-C4	-8.63	1.32	1.37
80	6	15	U	C2-N3	-8.63	1.31	1.37
36	1	197	G	C5-C6	-8.62	1.33	1.42
36	1	1203	A	N9-C4	-8.62	1.32	1.37
80	6	579	A	N3-C4	8.62	1.40	1.34
85	5	1403	C	N1-C6	-8.62	1.31	1.37
36	1	757	C	N1-C6	-8.62	1.31	1.37
80	6	751	G	P-OP2	8.62	1.63	1.49
85	5	3200	G	C5-C6	-8.62	1.33	1.42
36	1	3277	U	C2-O2	8.62	1.30	1.22
85	5	266	A	C6-N1	-8.62	1.29	1.35
36	1	1877	U	C2-O2	-8.62	1.14	1.22
36	1	588	G	C5-C4	-8.62	1.32	1.38
36	1	1112	A	C5-C4	-8.61	1.32	1.38
36	1	1426	C	N1-C6	-8.61	1.31	1.37
38	4	79	A	C6-N1	8.61	1.41	1.35
85	5	1170	A	N9-C8	-8.62	1.30	1.37
85	5	1190	A	C6-N1	-8.61	1.29	1.35
85	5	784	A	N3-C4	-8.61	1.29	1.34
85	5	988	U	N1-C2	-8.61	1.30	1.38
36	1	433	A	C5-C4	-8.61	1.32	1.38
85	5	919	U	N1-C6	-8.61	1.30	1.38
36	1	4	U	C2-N3	8.61	1.43	1.37
36	1	651	G	N1-C2	-8.61	1.30	1.37
85	5	1671	C	P-OP2	8.61	1.63	1.49
36	1	911	C	N1-C6	-8.60	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	3011	A	N9-C4	-8.60	1.32	1.37
85	5	408	A	N9-C8	-8.60	1.30	1.37
85	5	1909	A	N7-C5	-8.60	1.34	1.39
85	5	2296	A	C6-N1	-8.60	1.29	1.35
36	1	2413	A	N9-C4	-8.60	1.32	1.37
36	1	3166	C	N1-C6	8.60	1.42	1.37
38	4	138	A	N7-C5	-8.60	1.34	1.39
85	5	2600	C	N1-C6	-8.60	1.31	1.37
85	5	2964	G	C5-C6	8.60	1.50	1.42
1	2	1190	C	N1-C6	-8.59	1.31	1.37
36	1	635	G	N9-C8	-8.59	1.31	1.37
36	1	2408	U	N1-C6	-8.59	1.30	1.38
80	6	1311	U	P-OP2	8.59	1.63	1.49
85	5	1497	C	C4-C5	-8.59	1.36	1.43
85	5	1887	A	N9-C8	-8.59	1.30	1.37
85	5	3183	A	C6-N1	-8.59	1.29	1.35
85	5	2099	A	N3-C4	8.59	1.40	1.34
36	1	2858	U	N1-C2	-8.59	1.30	1.38
36	1	3210	A	C6-N1	-8.59	1.29	1.35
80	6	1121	C	N1-C6	-8.59	1.31	1.37
85	5	2381	G	C5-C6	-8.58	1.33	1.42
85	5	3277	U	N1-C2	8.58	1.46	1.38
36	1	56	G	C5-C4	-8.58	1.32	1.38
36	1	2204	C	N1-C6	-8.58	1.32	1.37
36	1	2140	U	N1-C2	-8.58	1.30	1.38
36	1	2847	A	N7-C5	-8.58	1.34	1.39
36	1	328	U	C2-O2	-8.58	1.14	1.22
38	4	97	A	N3-C4	-8.58	1.29	1.34
85	5	1935	G	C5-C4	8.58	1.44	1.38
85	5	2698	G	C6-N1	-8.58	1.33	1.39
85	5	3102	G	N3-C4	-8.58	1.29	1.35
36	1	33	G	N7-C5	-8.57	1.34	1.39
36	1	2752	U	N3-C4	-8.57	1.30	1.38
85	5	1153	A	C6-N1	-8.57	1.29	1.35
36	1	87	U	N1-C6	-8.57	1.30	1.38
85	5	1171	G	N3-C4	-8.56	1.29	1.35
85	5	3390	G	C5-C6	-8.56	1.33	1.42
36	1	407	A	N9-C4	-8.56	1.32	1.37
36	1	2415	C	N1-C6	-8.56	1.32	1.37
85	5	807	A	N9-C4	-8.56	1.32	1.37
85	5	3184	A	C5-C6	-8.56	1.33	1.41
36	1	402	A	N9-C4	-8.56	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	3281	U	N1-C2	8.56	1.46	1.38
85	5	896	A	C5-C4	-8.56	1.32	1.38
85	5	2283	G	N9-C4	-8.56	1.31	1.38
36	1	699	A	C6-N1	-8.55	1.29	1.35
37	3	17	A	N3-C4	-8.56	1.29	1.34
85	5	822	G	N3-C4	-8.56	1.29	1.35
85	5	941	G	N1-C2	-8.56	1.30	1.37
85	5	1316	C	C2'-O2'	8.55	1.52	1.41
85	5	1373	A	N9-C4	-8.55	1.32	1.37
36	1	3261	C	N1-C6	-8.55	1.32	1.37
85	5	2831	G	N7-C5	-8.55	1.34	1.39
85	5	1205	A	N7-C5	-8.55	1.34	1.39
85	5	1851	G	N7-C5	-8.55	1.34	1.39
85	5	2756	C	N1-C2	-8.55	1.31	1.40
36	1	1323	G	N9-C8	-8.55	1.31	1.37
85	5	1477	A	N3-C4	-8.54	1.29	1.34
36	1	726	G	C5-C4	-8.54	1.32	1.38
80	6	1296	A	N9-C4	-8.54	1.32	1.37
85	5	672	A	C5-C4	-8.54	1.32	1.38
36	1	1156	C	N3-C4	-8.54	1.27	1.33
68	O2	35	GLN	CB-CG	-8.54	1.29	1.52
85	5	295	A	C5-C6	-8.54	1.33	1.41
85	5	2315	G	C6-N1	-8.53	1.33	1.39
37	7	80	G	C5-C4	-8.53	1.32	1.38
85	5	2343	C	N1-C6	-8.53	1.32	1.37
85	5	2817	A	C5-C4	-8.53	1.32	1.38
36	1	402	A	C5-C4	-8.53	1.32	1.38
85	5	978	G	N1-C2	-8.53	1.30	1.37
85	5	2389	C	C2-N3	-8.53	1.28	1.35
36	1	934	G	N7-C5	-8.52	1.34	1.39
85	5	343	U	N1-C6	-8.52	1.30	1.38
80	6	1625	C	P-OP2	8.52	1.63	1.49
36	1	1150	A	N9-C4	-8.52	1.32	1.37
38	8	80	A	O3'-P	8.52	1.71	1.61
36	1	1351	U	N3-C4	8.52	1.46	1.38
85	5	2989	U	N1-C2	-8.52	1.30	1.38
36	1	984	G	C5-C6	-8.51	1.33	1.42
36	1	1172	G	N3-C4	-8.51	1.29	1.35
36	1	440	A	C6-N1	8.51	1.41	1.35
85	5	654	C	N1-C6	-8.51	1.32	1.37
36	1	1152	G	N3-C4	-8.51	1.29	1.35
36	1	1603	A	C5-C4	-8.51	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1901	A	C6-N1	-8.51	1.29	1.35
85	5	980	A	C5-C4	8.51	1.44	1.38
36	1	273	A	N9-C4	-8.51	1.32	1.37
36	1	800	G	C2-N3	-8.51	1.25	1.32
80	6	574	G	N9-C8	-8.51	1.31	1.37
85	5	933	A	N3-C4	-8.51	1.29	1.34
85	5	1352	A	N9-C4	8.51	1.43	1.37
38	4	36	G	N3-C4	-8.50	1.29	1.35
36	1	1474	A	N3-C4	-8.50	1.29	1.34
36	1	48	A	N3-C4	-8.50	1.29	1.34
85	5	28	C	N1-C6	-8.50	1.32	1.37
85	5	607	A	N9-C4	-8.50	1.32	1.37
85	5	3015	G	C5-C4	-8.50	1.32	1.38
38	8	80	A	C6-N1	8.49	1.41	1.35
36	1	384	A	N3-C4	-8.49	1.29	1.34
85	5	1404	G	N7-C5	-8.49	1.34	1.39
37	7	14	U	N1-C2	-8.49	1.30	1.38
1	2	1305	A	N9-C4	-8.49	1.32	1.37
85	5	2146	C	N1-C6	-8.49	1.32	1.37
85	5	2646	C	N3-C4	-8.49	1.28	1.33
80	6	1712	A	N9-C4	8.49	1.43	1.37
85	5	3138	U	N1-C2	-8.49	1.30	1.38
1	2	1715	A	N3-C4	-8.48	1.29	1.34
85	5	274	G	C6-N1	8.48	1.45	1.39
52	m6	3	VAL	CB-CG2	8.48	1.70	1.52
36	1	652	G	C6-N1	-8.48	1.33	1.39
36	1	1148	G	N7-C5	-8.48	1.34	1.39
37	3	51	A	N3-C4	8.48	1.40	1.34
36	1	1915	A	C6-N1	-8.48	1.29	1.35
85	5	348	A	N3-C4	-8.48	1.29	1.34
85	5	2900	A	C6-N1	-8.48	1.29	1.35
36	1	2341	A	C5-C4	-8.48	1.32	1.38
80	6	331	A	N3-C4	-8.48	1.29	1.34
36	1	1623	G	P-OP2	8.48	1.63	1.49
85	5	580	C	N3-C4	-8.48	1.28	1.33
85	5	2359	C	C4-C5	-8.48	1.36	1.43
85	5	2652	U	N1-C2	-8.48	1.30	1.38
85	5	2930	A	N9-C4	-8.48	1.32	1.37
85	5	525	C	N1-C6	-8.47	1.32	1.37
85	5	1165	A	C6-N1	-8.47	1.29	1.35
38	8	15	G	P-OP2	8.47	1.63	1.49
85	5	756	U	N1-C6	-8.47	1.30	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	427	C	N1-C6	-8.47	1.32	1.37
85	5	2986	U	N1-C6	-8.47	1.30	1.38
36	1	241	G	C6-N1	8.47	1.45	1.39
80	6	623	A	N9-C4	-8.47	1.32	1.37
1	2	961	A	N3-C4	-8.46	1.29	1.34
36	1	1154	A	N9-C8	-8.46	1.30	1.37
85	5	813	G	C5-C6	-8.46	1.33	1.42
36	1	2808	A	C5-C6	-8.46	1.33	1.41
85	5	358	G	C5-C6	-8.46	1.33	1.42
85	5	20	A	N3-C4	-8.46	1.29	1.34
85	5	2962	U	N1-C2	-8.46	1.30	1.38
85	5	3154	C	N1-C6	8.46	1.42	1.37
36	1	811	U	C2-N3	-8.45	1.31	1.37
85	5	811	U	N1-C6	-8.46	1.30	1.38
36	1	1406	A	C5-C4	-8.45	1.32	1.38
36	1	1410	U	C2-N3	-8.45	1.31	1.37
36	1	2979	U	C2-N3	-8.45	1.31	1.37
36	1	1800	A	N3-C4	-8.45	1.29	1.34
36	1	2197	C	N1-C6	-8.45	1.32	1.37
36	1	895	A	N7-C5	-8.44	1.34	1.39
36	1	907	G	N9-C8	-8.45	1.31	1.37
80	6	757	A	N9-C4	-8.45	1.32	1.37
36	1	2100	A	N3-C4	8.44	1.40	1.34
85	5	1180	A	N3-C4	-8.44	1.29	1.34
85	5	2126	A	N9-C4	-8.44	1.32	1.37
36	1	211	A	N9-C4	-8.44	1.32	1.37
85	5	1137	C	N3-C4	-8.44	1.28	1.33
85	5	1418	A	N7-C5	-8.44	1.34	1.39
85	5	2968	G	N9-C8	-8.44	1.31	1.37
85	5	2276	G	N3-C4	-8.44	1.29	1.35
85	5	2377	G	C6-N1	-8.44	1.33	1.39
85	5	383	G	N1-C2	8.44	1.44	1.37
36	1	2890	A	C6-N1	-8.43	1.29	1.35
38	4	58	G	N9-C8	-8.43	1.31	1.37
85	5	826	G	C5-C4	-8.43	1.32	1.38
37	7	101	G	N3-C4	-8.43	1.29	1.35
36	1	650	C	C4-C5	-8.43	1.36	1.43
85	5	2727	A	N7-C5	-8.43	1.34	1.39
85	5	2909	U	N1-C6	-8.43	1.30	1.38
36	1	656	A	C5-C6	-8.43	1.33	1.41
85	5	2377	G	N9-C8	-8.43	1.31	1.37
85	5	248	U	N1-C2	8.43	1.46	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2273	G	C6-O6	8.43	1.31	1.24
1	2	420	A	C6-N1	-8.43	1.29	1.35
36	1	1306	G	N3-C4	-8.43	1.29	1.35
36	1	3277	U	C2-N3	8.43	1.43	1.37
36	1	1765	U	N1-C2	8.43	1.46	1.38
85	5	774	G	N1-C2	8.43	1.44	1.37
85	5	3375	A	C5-C6	-8.42	1.33	1.41
85	5	1330	A	N7-C5	-8.42	1.34	1.39
57	n1	104	GLU	CB-CG	8.42	1.68	1.52
36	1	1302	A	N9-C4	-8.42	1.32	1.37
85	5	1433	A	N7-C5	-8.42	1.34	1.39
85	5	2692	A	N9-C4	-8.42	1.32	1.37
36	1	2100	A	N9-C4	8.41	1.42	1.37
85	5	2609	A	N9-C8	-8.41	1.31	1.37
36	1	3015	G	N7-C5	-8.41	1.34	1.39
50	M4	64	VAL	CB-CG1	-8.41	1.35	1.52
36	1	1800	A	N9-C4	-8.41	1.32	1.37
36	1	2778	G	N9-C4	-8.41	1.31	1.38
36	1	2363	A	N9-C8	-8.41	1.31	1.37
37	3	72	A	N9-C4	-8.41	1.32	1.37
36	1	1799	A	N3-C4	-8.41	1.29	1.34
36	1	3114	A	C6-N1	-8.41	1.29	1.35
85	5	645	A	N3-C4	-8.41	1.29	1.34
85	5	2732	G	N3-C4	-8.41	1.29	1.35
36	1	307	A	N3-C4	-8.40	1.29	1.34
85	5	512	U	C2-N3	-8.40	1.31	1.37
85	5	2156	C	N1-C6	-8.40	1.32	1.37
85	5	909	G	N3-C4	-8.40	1.29	1.35
85	5	2294	U	N1-C2	-8.40	1.30	1.38
85	5	3103	A	N3-C4	-8.40	1.29	1.34
36	1	3338	C	N1-C6	8.40	1.42	1.37
85	5	1078	U	C4-O4	8.40	1.30	1.23
85	5	2093	A	N9-C8	8.40	1.44	1.37
85	5	2345	A	N9-C4	-8.40	1.32	1.37
1	2	1107	A	N9-C4	-8.39	1.32	1.37
36	1	956	U	N1-C2	-8.39	1.30	1.38
36	1	2733	A	N3-C4	-8.39	1.29	1.34
37	3	95	A	C6-N1	-8.39	1.29	1.35
85	5	1104	G	C6-N1	-8.39	1.33	1.39
36	1	640	U	C2-O2	-8.39	1.14	1.22
36	1	1162	U	N1-C6	-8.39	1.30	1.38
85	5	3103	A	N9-C4	-8.39	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	3272	C	N1-C2	-8.39	1.31	1.40
85	5	2987	A	N9-C8	-8.39	1.31	1.37
38	4	92	A	N3-C4	-8.38	1.29	1.34
85	5	651	G	N7-C5	-8.38	1.34	1.39
85	5	957	C	N3-C4	-8.38	1.28	1.33
85	5	2136	C	N1-C6	-8.38	1.32	1.37
85	5	2736	A	N9-C4	-8.38	1.32	1.37
36	1	640	U	N3-C4	-8.38	1.30	1.38
38	4	47	C	C2-N3	-8.38	1.29	1.35
85	5	1949	G	C6-N1	8.38	1.45	1.39
36	1	2222	A	N9-C4	-8.38	1.32	1.37
85	5	2282	U	C2-O2	-8.38	1.14	1.22
38	8	23	U	N3-C4	-8.38	1.30	1.38
36	1	1905	G	N7-C5	-8.38	1.34	1.39
36	1	2847	A	C5-C6	-8.38	1.33	1.41
85	5	2407	C	N1-C2	-8.37	1.31	1.40
38	4	104	A	N7-C5	-8.37	1.34	1.39
36	1	703	G	N1-C2	-8.37	1.31	1.37
36	1	1799	A	C6-N1	-8.37	1.29	1.35
36	1	2401	A	C5-C6	-8.37	1.33	1.41
85	5	2956	A	C3'-C2'	8.37	1.62	1.52
36	1	2150	G	N7-C5	-8.37	1.34	1.39
36	1	726	G	C6-N1	-8.37	1.33	1.39
36	1	1765	U	C2-N3	8.37	1.43	1.37
85	5	1003	A	N3-C4	-8.37	1.29	1.34
85	5	2402	A	C6-N1	-8.37	1.29	1.35
37	3	103	A	N9-C4	-8.36	1.32	1.37
36	1	2180	G	N7-C5	-8.36	1.34	1.39
85	5	2569	A	N9-C4	8.36	1.42	1.37
38	8	137	C	N1-C2	-8.36	1.31	1.40
85	5	896	A	N7-C5	-8.36	1.34	1.39
36	1	812	G	C5-C4	-8.36	1.32	1.38
36	1	645	A	N3-C4	-8.36	1.29	1.34
85	5	1654	A	N3-C4	-8.36	1.29	1.34
85	5	3035	A	C5-C4	-8.36	1.32	1.38
85	5	2745	G	C6-O6	8.36	1.31	1.24
80	6	1081	A	N3-C4	8.35	1.39	1.34
36	1	1371	G	C6-N1	-8.35	1.33	1.39
85	5	391	A	N9-C4	-8.35	1.32	1.37
85	5	616	G	C6-O6	8.35	1.31	1.24
85	5	2321	A	N9-C4	-8.35	1.32	1.37
44	17	235	PHE	CB-CG	-8.35	1.37	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1157	G	N9-C8	-8.35	1.32	1.37
85	5	1281	G	N9-C8	8.35	1.43	1.37
85	5	1328	C	N1-C6	-8.35	1.32	1.37
85	5	2339	C	C4-C5	-8.35	1.36	1.43
85	5	2615	G	C5-C6	-8.35	1.34	1.42
36	1	980	A	N3-C4	8.35	1.39	1.34
36	1	2938	G	N7-C5	-8.35	1.34	1.39
80	6	295	A	N9-C8	-8.35	1.31	1.37
85	5	39	A	C6-N1	-8.35	1.29	1.35
36	1	1330	A	N3-C4	-8.34	1.29	1.34
85	5	2833	A	C6-N1	-8.34	1.29	1.35
1	2	505	A	N9-C4	8.34	1.42	1.37
80	6	1643	U	C2-N3	-8.34	1.31	1.37
85	5	361	A	C6-N1	-8.34	1.29	1.35
85	5	1107	C	N1-C6	-8.34	1.32	1.37
85	5	1887	A	N3-C4	-8.34	1.29	1.34
36	1	2957	G	C5-C4	-8.34	1.32	1.38
85	5	390	G	N7-C5	-8.34	1.34	1.39
85	5	814	U	C2-N3	-8.34	1.31	1.37
85	5	2987	A	N9-C4	-8.34	1.32	1.37
85	5	883	A	N3-C4	-8.34	1.29	1.34
36	1	434	U	C2-N3	-8.34	1.31	1.37
85	5	2172	A	N7-C5	-8.34	1.34	1.39
38	8	44	A	N7-C5	-8.34	1.34	1.39
85	5	656	A	C5-C6	-8.34	1.33	1.41
36	1	2885	C	N1-C6	-8.33	1.32	1.37
36	1	3123	A	N3-C4	-8.33	1.29	1.34
80	6	1665	U	N1-C2	-8.33	1.31	1.38
80	6	1755	A	P-OP2	8.33	1.63	1.49
85	5	3083	G	N1-C2	-8.33	1.31	1.37
36	1	369	A	C5-C6	-8.33	1.33	1.41
85	5	997	A	C6-N1	-8.33	1.29	1.35
1	2	776	A	N3-C4	8.33	1.39	1.34
36	1	642	U	C2-N3	-8.33	1.31	1.37
85	5	2379	U	N3-C4	-8.33	1.30	1.38
85	5	3136	G	C6-N1	-8.33	1.33	1.39
85	5	2256	A	C6-N1	8.33	1.41	1.35
1	2	67	A	N9-C4	-8.32	1.32	1.37
85	5	1528	G	C6-N1	-8.32	1.33	1.39
85	5	607	A	C6-N1	-8.32	1.29	1.35
85	5	2523	A	N9-C4	8.32	1.42	1.37
85	5	1871	U	C2-N3	-8.32	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	3243	A	N7-C5	-8.32	1.34	1.39
36	1	21	G	N3-C4	-8.31	1.29	1.35
36	1	2767	U	C2-N3	-8.31	1.31	1.37
85	5	2892	A	N7-C5	-8.31	1.34	1.39
85	5	3178	A	N9-C8	-8.31	1.31	1.37
85	5	273	A	N9-C4	-8.31	1.32	1.37
85	5	1312	C	N1-C6	-8.31	1.32	1.37
85	5	1429	G	N3-C4	-8.31	1.29	1.35
85	5	2147	A	N7-C5	-8.31	1.34	1.39
36	1	2847	A	N3-C4	-8.31	1.29	1.34
85	5	2620	G	C5-C6	-8.31	1.34	1.42
85	5	2860	U	C2-O2	8.31	1.29	1.22
36	1	2385	G	N9-C8	-8.31	1.32	1.37
85	5	1349	G	C6-N1	8.31	1.45	1.39
85	5	2394	G	N7-C5	-8.30	1.34	1.39
38	8	79	A	N9-C8	8.30	1.44	1.37
36	1	110	G	N3-C4	-8.30	1.29	1.35
36	1	1360	C	N1-C6	-8.30	1.32	1.37
85	5	1408	G	N9-C8	-8.30	1.32	1.37
85	5	2785	A	N9-C4	-8.30	1.32	1.37
36	1	2381	G	N3-C4	-8.29	1.29	1.35
80	6	682	C	N1-C6	8.29	1.42	1.37
36	1	283	G	C5-C6	-8.29	1.34	1.42
1	2	338	C	N1-C6	-8.29	1.32	1.37
36	1	3318	G	C6-N1	-8.29	1.33	1.39
85	5	306	A	N3-C4	-8.29	1.29	1.34
85	5	417	A	N9-C8	-8.29	1.31	1.37
85	5	1166	G	N9-C8	-8.29	1.32	1.37
85	5	301	G	N9-C8	-8.29	1.32	1.37
85	5	1727	G	C6-N1	-8.29	1.33	1.39
85	5	3050	U	C2-N3	-8.29	1.31	1.37
36	1	2414	G	N3-C4	-8.29	1.29	1.35
36	1	2800	G	N7-C5	-8.29	1.34	1.39
80	6	83	G	C6-N1	8.29	1.45	1.39
80	6	1778	G	N9-C8	-8.28	1.32	1.37
85	5	2847	A	N9-C8	-8.29	1.31	1.37
85	5	2976	A	N3-C4	-8.28	1.29	1.34
17	C5	50	THR	CA-CB	8.28	1.74	1.53
80	6	1030	A	N9-C4	-8.28	1.32	1.37
85	5	94	G	N9-C8	-8.28	1.32	1.37
85	5	1129	A	N9-C4	-8.28	1.32	1.37
38	8	21	C	N3-C4	-8.28	1.28	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	1498	G	C5-C4	8.28	1.44	1.38
85	5	2239	G	C6-N1	-8.28	1.33	1.39
85	5	3318	G	N3-C4	-8.28	1.29	1.35
85	5	1454	A	N7-C5	-8.28	1.34	1.39
36	1	2374	C	N1-C6	-8.28	1.32	1.37
38	4	13	A	N7-C5	-8.28	1.34	1.39
85	5	273	A	N3-C4	-8.28	1.29	1.34
85	5	3177	G	N3-C4	-8.28	1.29	1.35
38	4	53	A	C6-N1	-8.27	1.29	1.35
85	5	358	G	N7-C5	-8.27	1.34	1.39
85	5	806	A	N9-C4	-8.27	1.32	1.37
85	5	2671	A	N3-C4	-8.27	1.29	1.34
85	5	49	A	C5-C6	-8.27	1.33	1.41
85	5	418	A	C5-C6	-8.27	1.33	1.41
85	5	798	G	C5-C6	-8.27	1.34	1.42
85	5	3088	G	N3-C4	-8.27	1.29	1.35
85	5	3361	G	C6-O6	8.27	1.31	1.24
36	1	499	G	C5-C6	-8.27	1.34	1.42
36	1	1401	A	C6-N1	-8.27	1.29	1.35
36	1	975	C	N1-C6	-8.27	1.32	1.37
36	1	994	G	C6-N1	-8.27	1.33	1.39
36	1	1312	C	N1-C6	-8.27	1.32	1.37
85	5	1477	A	N7-C5	-8.27	1.34	1.39
36	1	94	G	C5-C4	-8.27	1.32	1.38
36	1	1115	G	N3-C4	-8.26	1.29	1.35
36	1	1923	C	N1-C6	-8.26	1.32	1.37
71	O5	64	GLU	CG-CD	8.26	1.64	1.51
80	6	543	C	N1-C6	8.26	1.42	1.37
85	5	519	A	N9-C4	-8.26	1.32	1.37
85	5	1177	G	N1-C2	-8.26	1.31	1.37
85	5	2136	C	C2-O2	-8.26	1.17	1.24
36	1	684	G	C5-C6	-8.26	1.34	1.42
36	1	1476	G	C5-C4	-8.26	1.32	1.38
36	1	2137	U	C2-N3	-8.26	1.31	1.37
1	2	1638	A	C6-N1	-8.26	1.29	1.35
36	1	1197	A	C5-C4	-8.26	1.32	1.38
85	5	976	U	C2-N3	-8.26	1.31	1.37
85	5	2929	C	C2-N3	-8.26	1.29	1.35
85	5	2714	G	N3-C4	-8.26	1.29	1.35
85	5	2885	C	N3-C4	-8.26	1.28	1.33
85	5	1199	C	N1-C6	-8.25	1.32	1.37
85	5	2404	A	N3-C4	8.25	1.39	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2645	G	N3-C4	-8.25	1.29	1.35
36	1	44	U	N3-C4	-8.24	1.31	1.38
36	1	1311	G	N9-C8	-8.24	1.32	1.37
85	5	283	G	C5-C6	-8.24	1.34	1.42
85	5	630	A	C6-N1	-8.24	1.29	1.35
85	5	2880	U	N3-C4	-8.24	1.31	1.38
37	7	84	A	C6-N1	-8.24	1.29	1.35
36	1	2214	A	N3-C4	-8.24	1.29	1.34
85	5	511	G	N7-C5	-8.24	1.34	1.39
85	5	3336	A	N9-C4	-8.24	1.32	1.37
36	1	652	G	N3-C4	-8.24	1.29	1.35
85	5	1491	A	C5-C4	-8.24	1.32	1.38
36	1	357	A	N7-C5	-8.24	1.34	1.39
36	1	2933	A	N7-C5	-8.24	1.34	1.39
38	4	40	A	N7-C5	-8.24	1.34	1.39
80	6	1300	A	N3-C4	-8.24	1.29	1.34
85	5	978	G	C6-N1	-8.24	1.33	1.39
85	5	3147	G	P-OP1	8.23	1.62	1.49
36	1	882	A	N3-C4	-8.23	1.29	1.34
36	1	2752	U	C2-N3	-8.23	1.31	1.37
36	1	2823	G	N9-C8	-8.23	1.32	1.37
85	5	1896	A	N3-C4	-8.23	1.29	1.34
85	5	2198	A	N9-C4	-8.23	1.32	1.37
85	5	751	A	N9-C4	-8.23	1.32	1.37
85	5	1902	G	N7-C5	-8.23	1.34	1.39
85	5	2393	G	N3-C4	-8.23	1.29	1.35
85	5	1135	A	N7-C5	-8.23	1.34	1.39
37	7	88	G	N3-C4	-8.22	1.29	1.35
85	5	2978	U	N1-C2	8.22	1.46	1.38
36	1	411	U	N1-C2	-8.22	1.31	1.38
80	6	1645	G	C2-N3	-8.22	1.26	1.32
36	1	644	G	C6-N1	-8.22	1.33	1.39
85	5	2906	C	P-OP1	8.22	1.62	1.49
37	7	88	G	C6-N1	-8.22	1.33	1.39
36	1	1450	G	C6-N1	-8.21	1.33	1.39
36	1	2906	C	N1-C6	-8.21	1.32	1.37
36	1	71	A	C6-N1	-8.21	1.29	1.35
36	1	894	G	C6-N1	-8.21	1.33	1.39
36	1	2691	A	N9-C4	-8.21	1.32	1.37
85	5	809	G	N7-C5	-8.21	1.34	1.39
85	5	812	G	N3-C4	-8.21	1.29	1.35
85	5	999	G	N7-C5	-8.21	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2804	A	N9-C4	-8.21	1.32	1.37
36	1	2946	A	C6-N1	-8.21	1.29	1.35
85	5	2939	G	C6-N1	-8.21	1.33	1.39
64	n8	46	ASP	CB-CG	8.21	1.69	1.51
85	5	1907	C	C2-O2	-8.21	1.17	1.24
36	1	2522	G	C5-C4	8.21	1.44	1.38
36	1	2343	C	N1-C6	-8.20	1.32	1.37
36	1	619	A	C6-N1	8.20	1.41	1.35
80	6	436	A	N9-C4	-8.20	1.32	1.37
85	5	970	A	N9-C8	-8.20	1.31	1.37
85	5	2819	A	C5-C4	-8.20	1.33	1.38
85	5	2957	G	C5-C4	-8.20	1.32	1.38
36	1	437	G	N3-C4	8.20	1.41	1.35
47	M0	213	PHE	C-N	8.20	1.49	1.34
1	2	1789	A	N9-C4	8.20	1.42	1.37
36	1	2991	A	N3-C4	-8.20	1.29	1.34
36	1	3010	U	C2-N3	-8.19	1.32	1.37
85	5	933	A	C6-N1	-8.20	1.29	1.35
85	5	2377	G	N3-C4	-8.20	1.29	1.35
36	1	656	A	N3-C4	-8.19	1.29	1.34
36	1	952	A	C6-N1	-8.19	1.29	1.35
36	1	1512	U	N1-C2	-8.19	1.31	1.38
85	5	1303	A	N7-C5	-8.19	1.34	1.39
85	5	2609	A	C5-C4	-8.19	1.33	1.38
85	5	2369	G	C6-N1	-8.19	1.33	1.39
43	L6	109	GLU	CG-CD	8.19	1.64	1.51
85	5	2375	G	C6-N1	-8.19	1.33	1.39
36	1	94	G	N1-C2	-8.18	1.31	1.37
36	1	274	G	N3-C4	-8.18	1.29	1.35
36	1	711	A	N9-C8	-8.18	1.31	1.37
85	5	863	C	N1-C6	-8.18	1.32	1.37
85	5	880	G	C5-C4	-8.18	1.32	1.38
36	1	658	G	N3-C4	-8.18	1.29	1.35
36	1	1418	A	N9-C4	-8.18	1.32	1.37
38	4	96	A	N3-C4	-8.18	1.29	1.34
85	5	2862	U	C2-N3	-8.18	1.32	1.37
85	5	3312	U	N3-C4	8.18	1.45	1.38
38	8	80	A	N3-C4	8.18	1.39	1.34
36	1	319	A	C6-N1	-8.18	1.29	1.35
73	o7	88	ALA	CA-CB	8.18	1.69	1.52
36	1	1427	U	N1-C6	-8.17	1.30	1.38
36	1	1613	A	N7-C5	-8.17	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1765	U	N3-C4	8.17	1.45	1.38
85	5	1143	A	N9-C4	-8.17	1.32	1.37
36	1	914	A	C6-N1	-8.17	1.29	1.35
85	5	342	A	C5-C4	-8.17	1.33	1.38
85	5	2328	U	N1-C2	-8.17	1.31	1.38
36	1	2817	A	C5-C4	-8.17	1.33	1.38
36	1	2933	A	N9-C4	-8.17	1.32	1.37
85	5	147	U	N1-C2	-8.17	1.31	1.38
85	5	924	G	C6-N1	-8.17	1.33	1.39
80	6	451	A	N9-C4	-8.16	1.32	1.37
1	2	1010	A	C5-C6	-8.16	1.33	1.41
36	1	28	C	N1-C6	-8.16	1.32	1.37
85	5	584	G	N9-C8	-8.16	1.32	1.37
36	1	2296	A	N9-C8	-8.16	1.31	1.37
36	1	2945	G	C5-C6	-8.16	1.34	1.42
36	1	857	G	N3-C4	-8.16	1.29	1.35
38	8	63	G	N3-C4	-8.16	1.29	1.35
36	1	1094	U	N1-C2	8.16	1.45	1.38
36	1	408	A	N9-C8	-8.15	1.31	1.37
36	1	414	U	C2-N3	-8.15	1.32	1.37
36	1	1147	G	N3-C4	-8.15	1.29	1.35
36	1	1536	G	N3-C4	-8.15	1.29	1.35
85	5	519	A	C5-C4	-8.15	1.33	1.38
85	5	695	C	N1-C6	-8.15	1.32	1.37
85	5	3195	U	N1-C2	8.15	1.45	1.38
85	5	3198	U	C4-C5	-8.15	1.36	1.43
36	1	859	G	N7-C5	-8.15	1.34	1.39
36	1	2111	G	N9-C8	-8.15	1.32	1.37
36	1	2119	A	C5-C6	-8.15	1.33	1.41
80	6	919	A	N7-C5	-8.15	1.34	1.39
85	5	1155	C	N1-C6	-8.15	1.32	1.37
36	1	391	A	N9-C4	8.15	1.42	1.37
85	5	907	G	C5-C4	-8.15	1.32	1.38
85	5	1302	A	C5-C4	-8.15	1.33	1.38
85	5	1370	G	N1-C2	-8.15	1.31	1.37
36	1	2207	A	C6-N1	8.14	1.41	1.35
36	1	2409	G	N7-C5	-8.14	1.34	1.39
40	L3	255	TRP	CE3-CZ3	-8.14	1.24	1.38
85	5	2189	U	N1-C2	-8.14	1.31	1.38
80	6	1100	G	C6-N1	-8.14	1.33	1.39
85	5	3048	A	N7-C5	-8.14	1.34	1.39
36	1	423	A	N9-C4	-8.14	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1311	G	N7-C5	-8.14	1.34	1.39
36	1	2987	A	N9-C8	-8.14	1.31	1.37
85	5	1473	G	N9-C8	-8.14	1.32	1.37
37	7	73	C	N3-C4	8.14	1.39	1.33
36	1	2373	A	N3-C4	-8.13	1.29	1.34
36	1	2987	A	N9-C4	-8.13	1.32	1.37
80	6	1133	A	N9-C4	-8.14	1.32	1.37
85	5	1887	A	C5-C6	-8.14	1.33	1.41
85	5	2324	A	C5-C6	-8.13	1.33	1.41
85	5	2409	G	N1-C2	-8.13	1.31	1.37
36	1	13	A	N7-C5	-8.13	1.34	1.39
36	1	701	G	N9-C8	-8.13	1.32	1.37
36	1	1430	U	N1-C2	-8.13	1.31	1.38
80	6	570	A	N7-C5	-8.13	1.34	1.39
37	7	63	A	C6-N1	8.13	1.41	1.35
36	1	159	A	N9-C4	-8.13	1.32	1.37
80	6	561	G	P-OP2	8.13	1.62	1.49
80	6	1748	G	N9-C8	-8.13	1.32	1.37
85	5	1093	A	N7-C5	8.13	1.44	1.39
37	7	45	A	C6-N1	-8.13	1.29	1.35
85	5	1634	G	N7-C5	-8.13	1.34	1.39
85	5	498	A	N3-C4	-8.13	1.29	1.34
36	1	1657	C	N1-C6	-8.12	1.32	1.37
85	5	1886	A	N9-C4	-8.12	1.32	1.37
85	5	2850	G	N3-C4	-8.12	1.29	1.35
36	1	3265	C	N1-C2	-8.12	1.32	1.40
85	5	1356	U	C2-O2	8.12	1.29	1.22
80	6	54	C	C4-C5	8.12	1.49	1.43
80	6	1649	G	N9-C4	-8.12	1.31	1.38
1	2	1640	U	N1-C2	8.12	1.45	1.38
80	6	49	C	N1-C6	-8.12	1.32	1.37
85	5	780	A	N7-C5	-8.11	1.34	1.39
85	5	2185	G	N9-C8	-8.12	1.32	1.37
36	1	905	U	N1-C2	-8.11	1.31	1.38
36	1	936	A	C6-N1	-8.11	1.29	1.35
36	1	2908	G	C5-C4	-8.11	1.32	1.38
85	5	2698	G	N3-C4	-8.11	1.29	1.35
85	5	647	A	N9-C4	-8.11	1.32	1.37
85	5	1315	U	C2-N3	-8.11	1.32	1.37
80	6	347	G	N9-C8	-8.10	1.32	1.37
80	6	1122	G	N9-C8	-8.10	1.32	1.37
85	5	660	A	C6-N1	-8.10	1.29	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1053	A	N3-C4	-8.10	1.29	1.34
85	5	1307	G	N7-C5	-8.10	1.34	1.39
85	5	2715	A	N3-C4	-8.10	1.29	1.34
36	1	1433	A	N7-C5	-8.10	1.34	1.39
85	5	1117	G	N3-C4	-8.10	1.29	1.35
85	5	2786	G	N3-C4	-8.10	1.29	1.35
85	5	36	C	N1-C6	-8.10	1.32	1.37
36	1	341	G	N7-C5	-8.10	1.34	1.39
36	1	578	A	N3-C4	-8.10	1.29	1.34
85	5	887	G	N7-C5	-8.10	1.34	1.39
85	5	3047	U	N3-C4	-8.10	1.31	1.38
36	1	2954	U	N1-C6	-8.10	1.30	1.38
85	5	995	U	C2-O2	-8.10	1.15	1.22
36	1	1371	G	C5-C4	-8.09	1.32	1.38
36	1	2853	A	N9-C4	-8.09	1.32	1.37
36	1	2919	A	C5-C6	-8.09	1.33	1.41
37	7	101	G	C5-C4	-8.09	1.32	1.38
1	2	420	A	N3-C4	-8.09	1.29	1.34
85	5	908	G	N7-C5	-8.09	1.34	1.39
36	1	911	C	C2-O2	-8.09	1.17	1.24
36	1	986	U	C4-O4	-8.09	1.17	1.23
36	1	3046	A	N9-C8	-8.09	1.31	1.37
40	l3	262	TRP	CB-CG	-8.09	1.35	1.50
64	n8	52	TYR	CD2-CE2	-8.09	1.27	1.39
36	1	1511	U	N1-C2	-8.09	1.31	1.38
36	1	3210	A	N3-C4	-8.09	1.29	1.34
80	6	419	G	C8-N7	8.08	1.35	1.30
85	5	2871	G	C5-C4	8.08	1.44	1.38
36	1	2610	G	N3-C4	-8.08	1.29	1.35
85	5	2981	U	C2-O2	-8.08	1.15	1.22
85	5	421	G	N3-C4	-8.08	1.29	1.35
85	5	634	C	C2-N3	-8.08	1.29	1.35
85	5	2653	C	N1-C2	-8.08	1.32	1.40
85	5	2864	A	N1-C2	-8.08	1.27	1.34
36	1	419	G	N9-C8	-8.07	1.32	1.37
36	1	900	G	N7-C5	-8.07	1.34	1.39
85	5	644	G	N3-C4	-8.07	1.29	1.35
85	5	1180	A	C5-C4	-8.07	1.33	1.38
85	5	2957	G	N7-C5	-8.07	1.34	1.39
85	5	2980	U	C2-O2	-8.07	1.15	1.22
36	1	1372	C	C2-N3	-8.07	1.29	1.35
36	1	2222	A	C6-N1	-8.07	1.29	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1594	A	N3-C4	-8.07	1.30	1.34
85	5	721	G	C6-N1	8.07	1.45	1.39
85	5	2619	G	N1-C2	-8.07	1.31	1.37
85	5	1124	U	C4-C5	8.06	1.50	1.43
36	1	1723	A	N7-C5	-8.06	1.34	1.39
85	5	498	A	N9-C4	-8.06	1.33	1.37
85	5	431	U	C4-O4	8.06	1.30	1.23
85	5	1850	A	N9-C8	-8.06	1.31	1.37
85	5	3273	A	N9-C4	-8.06	1.33	1.37
36	1	45	A	N3-C4	-8.06	1.30	1.34
36	1	1936	A	N3-C4	-8.06	1.30	1.34
85	5	895	A	N7-C5	-8.06	1.34	1.39
85	5	1408	G	N7-C5	-8.06	1.34	1.39
85	5	2190	U	N1-C6	-8.06	1.30	1.38
85	5	2933	A	C5-C4	-8.05	1.33	1.38
85	5	1301	A	N7-C5	-8.05	1.34	1.39
85	5	1651	U	C4-O4	8.05	1.30	1.23
1	2	1113	G	N7-C5	-8.05	1.34	1.39
1	2	1640	U	N1-C6	8.05	1.45	1.38
36	1	2349	U	C2-N3	-8.05	1.32	1.37
80	6	336	G	N7-C5	-8.05	1.34	1.39
85	5	430	U	N1-C2	-8.05	1.31	1.38
85	5	1432	C	C4-N4	-8.05	1.26	1.33
85	5	2386	A	N3-C4	-8.05	1.30	1.34
36	1	47	C	N1-C6	-8.05	1.32	1.37
36	1	1103	A	C6-N1	8.05	1.41	1.35
36	1	1891	A	N9-C8	-8.05	1.31	1.37
36	1	653	A	C5-C4	-8.04	1.33	1.38
36	1	1906	G	N7-C5	-8.05	1.34	1.39
85	5	1757	A	N9-C4	8.05	1.42	1.37
85	5	1764	U	C2-N3	8.05	1.43	1.37
80	6	1081	A	C5-C4	8.04	1.44	1.38
36	1	1431	G	N3-C4	-8.04	1.29	1.35
36	1	2650	U	N3-C4	-8.04	1.31	1.38
85	5	774	G	C5-C4	8.04	1.44	1.38
85	5	1295	G	C6-N1	-8.04	1.33	1.39
85	5	2320	A	N7-C5	-8.04	1.34	1.39
38	8	20	U	N1-C6	-8.04	1.30	1.38
80	6	1777	G	N3-C4	-8.04	1.29	1.35
1	2	1096	A	N7-C5	-8.04	1.34	1.39
36	1	1142	G	C5-C4	-8.04	1.32	1.38
41	L4	52	VAL	CB-CG1	-8.04	1.35	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	645	C	N1-C6	8.03	1.42	1.37
36	1	30	G	C6-N1	-8.03	1.33	1.39
85	5	560	G	N7-C5	-8.03	1.34	1.39
85	5	1413	G	C8-N7	8.03	1.35	1.30
85	5	3010	U	N3-C4	-8.03	1.31	1.38
85	5	61	A	N9-C4	-8.03	1.33	1.37
85	5	3124	G	N3-C4	-8.03	1.29	1.35
36	1	2956	A	N3-C4	-8.03	1.30	1.34
80	6	1161	C	N3-C4	-8.03	1.28	1.33
85	5	2399	A	N7-C5	-8.03	1.34	1.39
85	5	2896	A	N9-C4	-8.03	1.33	1.37
36	1	583	G	N9-C8	-8.02	1.32	1.37
36	1	2408	U	C2-N3	-8.02	1.32	1.37
85	5	999	G	N9-C4	-8.02	1.31	1.38
85	5	2828	G	N7-C5	-8.02	1.34	1.39
36	1	361	A	C5-C4	-8.02	1.33	1.38
36	1	619	A	N3-C4	8.02	1.39	1.34
85	5	1133	A	N9-C8	-8.02	1.31	1.37
85	5	3371	G	C5-C4	-8.02	1.32	1.38
41	L4	261	VAL	CB-CG2	-8.02	1.36	1.52
85	5	653	A	C5-C4	-8.02	1.33	1.38
85	5	1524	A	N7-C5	-8.02	1.34	1.39
85	5	1448	U	N1-C6	-8.01	1.30	1.38
36	1	1132	C	N1-C6	-8.01	1.32	1.37
36	1	2524	A	N9-C4	-8.01	1.33	1.37
85	5	711	A	N3-C4	-8.01	1.30	1.34
85	5	194	U	N3-C4	-8.01	1.31	1.38
1	2	1064	A	N3-C4	8.01	1.39	1.34
85	5	1235	U	C2'-O2'	8.01	1.52	1.41
36	1	1655	G	N3-C4	-8.00	1.29	1.35
85	5	2876	C	N3-C4	-8.00	1.28	1.33
85	5	3275	U	C2-N3	8.00	1.43	1.37
85	5	3144	G	P-OP2	8.00	1.62	1.49
36	1	57	A	N7-C5	-8.00	1.34	1.39
36	1	364	G	N9-C4	-8.00	1.31	1.38
85	5	592	A	N7-C5	-8.00	1.34	1.39
85	5	2875	U	N1-C2	-8.00	1.31	1.38
36	1	2337	C	N1-C2	-8.00	1.32	1.40
36	1	3142	A	C6-N1	-8.00	1.29	1.35
36	1	706	A	N9-C4	-7.99	1.33	1.37
36	1	962	A	N7-C5	-7.99	1.34	1.39
36	1	2773	C	N1-C6	-7.99	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	1155	G	N9-C8	7.99	1.43	1.37
85	5	430	U	P-OP2	7.99	1.62	1.49
38	8	17	A	N7-C5	-7.99	1.34	1.39
85	5	2404	A	C6-N1	7.99	1.41	1.35
36	1	895	A	N3-C4	-7.99	1.30	1.34
36	1	2805	G	C8-N7	-7.99	1.26	1.30
85	5	2505	U	N1-C2	7.99	1.45	1.38
85	5	11	A	N3-C4	-7.99	1.30	1.34
85	5	938	C	N1-C2	-7.99	1.32	1.40
36	1	936	A	N7-C5	-7.99	1.34	1.39
36	1	655	C	N1-C6	-7.99	1.32	1.37
36	1	700	C	N1-C6	-7.99	1.32	1.37
85	5	2883	U	N1-C2	-7.99	1.31	1.38
85	5	408	A	N9-C4	-7.98	1.33	1.37
36	1	803	C	N1-C2	-7.98	1.32	1.40
80	6	1070	C	C5-C6	7.98	1.40	1.34
85	5	2646	C	C2-N3	-7.98	1.29	1.35
36	1	1673	G	N3-C4	-7.98	1.29	1.35
36	1	2682	C	N1-C6	-7.98	1.32	1.37
80	6	943	C	P-OP1	7.98	1.62	1.49
85	5	1372	C	N3-C4	-7.98	1.28	1.33
37	7	92	A	C5-C4	-7.98	1.33	1.38
85	5	2540	A	N9-C4	7.98	1.42	1.37
36	1	1341	U	N1-C6	-7.98	1.30	1.38
85	5	666	A	N3-C4	-7.98	1.30	1.34
85	5	1313	G	N9-C8	-7.98	1.32	1.37
36	1	1933	A	N3-C4	-7.98	1.30	1.34
36	1	1136	A	N9-C4	-7.97	1.33	1.37
85	5	2300	G	N1-C2	-7.97	1.31	1.37
36	1	2096	A	N9-C4	7.97	1.42	1.37
36	1	2800	G	N9-C8	-7.97	1.32	1.37
36	1	2945	G	N9-C4	-7.97	1.31	1.38
85	5	1477	A	N9-C4	-7.97	1.33	1.37
36	1	2939	G	C6-N1	-7.97	1.33	1.39
36	1	635	G	N7-C5	-7.97	1.34	1.39
80	6	333	A	C6-N1	-7.97	1.29	1.35
80	6	1742	U	N1-C2	-7.97	1.31	1.38
85	5	1047	A	N7-C5	-7.97	1.34	1.39
37	7	94	C	C2-N3	-7.97	1.29	1.35
36	1	1772	U	C2-N3	-7.96	1.32	1.37
85	5	1915	A	C6-N1	-7.96	1.29	1.35
36	1	2379	U	N1-C6	-7.96	1.30	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2288	G	N1-C2	-7.96	1.31	1.37
37	7	80	G	N3-C4	-7.96	1.29	1.35
85	5	3106	A	N7-C5	-7.96	1.34	1.39
85	5	2957	G	N9-C4	-7.96	1.31	1.38
85	5	1851	G	N9-C8	-7.95	1.32	1.37
85	5	2145	A	N7-C5	-7.95	1.34	1.39
85	5	2623	G	C5-C4	-7.95	1.32	1.38
85	5	1193	A	C6-N1	-7.95	1.29	1.35
36	1	342	A	C5-C4	-7.95	1.33	1.38
36	1	2607	G	C8-N7	-7.95	1.26	1.30
36	1	2647	A	C5-C6	-7.95	1.33	1.41
36	1	1346	G	N9-C4	-7.95	1.31	1.38
36	1	2201	G	C5-C6	-7.95	1.34	1.42
85	5	2733	A	N9-C8	-7.95	1.31	1.37
36	1	429	U	N1-C6	-7.95	1.30	1.38
36	1	1915	A	N3-C4	-7.95	1.30	1.34
85	5	1177	G	N3-C4	-7.95	1.29	1.35
85	5	2808	A	N3-C4	-7.95	1.30	1.34
85	5	3278	C	N3-C4	7.95	1.39	1.33
36	1	1057	A	C6-N1	-7.94	1.29	1.35
36	1	810	A	N9-C4	-7.94	1.33	1.37
36	1	1345	G	N9-C4	-7.94	1.31	1.38
85	5	1904	C	C2-N3	-7.94	1.29	1.35
36	1	1886	A	N9-C4	-7.94	1.33	1.37
36	1	952	A	N9-C4	-7.94	1.33	1.37
36	1	936	A	N9-C4	-7.94	1.33	1.37
36	1	1764	U	C2-N3	7.94	1.43	1.37
85	5	1371	G	N9-C4	-7.94	1.31	1.38
85	5	1420	C	N3-C4	-7.94	1.28	1.33
85	5	1589	A	N7-C5	-7.94	1.34	1.39
38	4	115	C	N1-C6	-7.94	1.32	1.37
36	1	405	U	C4-C5	-7.93	1.36	1.43
80	6	1649	G	N9-C8	7.93	1.43	1.37
80	6	1745	G	N9-C8	-7.93	1.32	1.37
36	1	2130	G	N7-C5	-7.93	1.34	1.39
36	1	2165	G	N7-C5	-7.93	1.34	1.39
85	5	197	G	N7-C5	-7.93	1.34	1.39
85	5	958	C	N3-C4	-7.93	1.28	1.33
36	1	1114	U	N1-C6	-7.93	1.30	1.38
80	6	628	G	N3-C4	-7.93	1.29	1.35
36	1	1619	A	C6-N1	7.93	1.41	1.35
36	1	3167	A	C6-N1	7.93	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1375	G	N9-C4	-7.93	1.31	1.38
37	3	2	G	N3-C4	-7.92	1.29	1.35
80	6	53	G	N3-C4	-7.92	1.29	1.35
85	5	802	C	N1-C2	-7.92	1.32	1.40
85	5	1901	A	C6-N1	-7.92	1.30	1.35
36	1	3309	G	C6-N1	-7.92	1.34	1.39
37	3	82	G	C6-N1	-7.92	1.34	1.39
85	5	2816	G	N7-C5	-7.92	1.34	1.39
36	1	1119	C	N1-C6	-7.92	1.32	1.37
36	1	1350	A	C6-N1	7.92	1.41	1.35
85	5	90	C	N1-C6	-7.92	1.32	1.37
85	5	641	C	N1-C2	-7.92	1.32	1.40
59	n3	25	CYS	CB-SG	-7.92	1.68	1.82
36	1	951	A	N3-C4	-7.92	1.30	1.34
85	5	711	A	N9-C4	-7.92	1.33	1.37
38	4	144	G	N9-C8	-7.92	1.32	1.37
36	1	242	C	N1-C6	7.92	1.41	1.37
85	5	1529	A	N9-C4	-7.92	1.33	1.37
85	5	1912	U	N1-C2	-7.92	1.31	1.38
80	6	646	C	N1-C6	7.92	1.41	1.37
36	1	899	U	N3-C4	-7.91	1.31	1.38
38	4	6	U	N1-C2	-7.91	1.31	1.38
85	5	530	G	C5-C6	-7.91	1.34	1.42
85	5	651	G	N9-C4	-7.91	1.31	1.38
85	5	2947	G	N9-C8	-7.91	1.32	1.37
37	7	43	U	C2-N3	-7.91	1.32	1.37
48	m1	109	HIS	CA-C	-7.91	1.32	1.52
85	5	2860	U	N1-C2	7.91	1.45	1.38
38	4	111	A	N3-C4	-7.91	1.30	1.34
85	5	817	A	N7-C5	-7.91	1.34	1.39
36	1	918	C	N1-C2	-7.91	1.32	1.40
36	1	786	A	N3-C4	-7.91	1.30	1.34
80	6	1744	A	N9-C8	-7.91	1.31	1.37
36	1	1164	G	C5-C4	-7.90	1.32	1.38
36	1	283	G	N9-C4	-7.90	1.31	1.38
36	1	2702	A	N7-C5	-7.90	1.34	1.39
85	5	3177	G	C2-N3	-7.90	1.26	1.32
85	5	96	G	N9-C4	-7.90	1.31	1.38
85	5	1484	U	N1-C2	-7.90	1.31	1.38
36	1	2721	A	N7-C5	-7.90	1.34	1.39
85	5	679	U	N1-C2	-7.90	1.31	1.38
85	5	1907	C	C2-N3	-7.90	1.29	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2743	A	N3-C4	-7.90	1.30	1.34
36	1	789	A	C6-N1	-7.89	1.30	1.35
36	1	1159	A	N3-C4	-7.89	1.30	1.34
85	5	3056	U	N1-C6	-7.89	1.30	1.38
36	1	665	A	C5-C6	-7.89	1.33	1.41
85	5	383	G	C5-C4	7.89	1.43	1.38
36	1	2227	C	N1-C6	-7.89	1.32	1.37
36	1	2347	U	C2-N3	-7.89	1.32	1.37
80	6	10	G	N7-C5	-7.89	1.34	1.39
85	5	358	G	C2-N3	-7.89	1.26	1.32
85	5	2623	G	N9-C8	-7.89	1.32	1.37
36	1	978	G	N9-C4	-7.89	1.31	1.38
36	1	635	G	C5-C4	-7.88	1.32	1.38
36	1	1522	U	C2-O2	-7.88	1.15	1.22
80	6	119	A	N3-C4	-7.88	1.30	1.34
80	6	403	G	N9-C4	-7.88	1.31	1.38
36	1	1655	G	C5-C6	-7.88	1.34	1.42
36	1	2145	A	N3-C4	-7.88	1.30	1.34
36	1	1613	A	N9-C4	-7.88	1.33	1.37
36	1	2601	A	N9-C8	-7.88	1.31	1.37
36	1	2946	A	C5-C4	-7.88	1.33	1.38
36	1	2375	G	N3-C4	-7.88	1.29	1.35
85	5	2394	G	C5-C4	-7.88	1.32	1.38
36	1	1450	G	C6-O6	-7.88	1.17	1.24
80	6	449	C	N1-C6	-7.88	1.32	1.37
85	5	2415	C	N3-C4	-7.88	1.28	1.33
36	1	1450	G	N9-C4	-7.88	1.31	1.38
80	6	754	A	C6-N1	7.88	1.41	1.35
85	5	274	G	C6-O6	7.88	1.31	1.24
85	5	948	C	N1-C2	-7.87	1.32	1.40
85	5	364	G	N9-C4	-7.87	1.31	1.38
85	5	716	A	N9-C4	-7.87	1.33	1.37
37	7	88	G	N9-C8	-7.87	1.32	1.37
38	8	84	C	N1-C6	7.87	1.41	1.37
36	1	1564	U	N1-C2	7.87	1.45	1.38
37	7	38	U	N1-C2	-7.87	1.31	1.38
85	5	1143	A	N9-C8	-7.87	1.31	1.37
85	5	2979	U	C2-N3	-7.87	1.32	1.37
80	6	340	U	N1-C2	-7.87	1.31	1.38
36	1	2637	A	C6-N1	-7.87	1.30	1.35
85	5	905	U	N1-C6	-7.87	1.30	1.38
85	5	3204	C	N1-C6	-7.87	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1372	C	N1-C2	-7.86	1.32	1.40
36	1	2296	A	C6-N1	-7.86	1.30	1.35
80	6	1142	A	N3-C4	-7.86	1.30	1.34
36	1	836	A	N3-C4	-7.86	1.30	1.34
85	5	830	A	N7-C5	-7.86	1.34	1.39
85	5	1140	G	N7-C5	-7.86	1.34	1.39
85	5	2190	U	N1-C2	-7.86	1.31	1.38
80	6	541	A	N9-C4	7.86	1.42	1.37
85	5	2996	U	C2-N3	7.86	1.43	1.37
38	4	98	U	N1-C2	-7.86	1.31	1.38
85	5	3239	G	C5-C4	7.86	1.43	1.38
36	1	52	A	C6-N1	-7.85	1.30	1.35
1	2	1778	U	C2-N3	7.85	1.43	1.37
80	6	40	A	N3-C4	-7.85	1.30	1.34
85	5	853	G	N3-C4	-7.85	1.29	1.35
85	5	1934	G	C6-O6	7.85	1.31	1.24
36	1	2275	A	N3-C4	-7.85	1.30	1.34
36	1	1655	G	N7-C5	-7.85	1.34	1.39
36	1	3174	A	N7-C5	-7.85	1.34	1.39
85	5	2129	U	C2-N3	-7.85	1.32	1.37
36	1	2390	A	C6-N1	-7.84	1.30	1.35
85	5	1897	G	C5-C6	-7.84	1.34	1.42
36	1	1151	U	C2-N3	7.84	1.43	1.37
36	1	1333	C	C2-O2	-7.84	1.17	1.24
85	5	872	U	N1-C2	-7.84	1.31	1.38
36	1	1382	G	N3-C4	-7.84	1.29	1.35
36	1	1435	A	N3-C4	-7.84	1.30	1.34
36	1	2913	C	N1-C6	-7.84	1.32	1.37
85	5	2411	U	N1-C6	-7.84	1.30	1.38
85	5	806	A	N7-C5	-7.84	1.34	1.39
85	5	2327	U	N1-C6	-7.84	1.30	1.38
36	1	1877	U	C2-N3	-7.84	1.32	1.37
36	1	2368	A	C5-C4	-7.84	1.33	1.38
36	1	2733	A	C6-N6	7.84	1.40	1.33
85	5	2370	G	C6-N1	-7.84	1.34	1.39
36	1	2143	A	C6-N1	-7.83	1.30	1.35
36	1	411	U	C2-N3	-7.83	1.32	1.37
80	6	103	A	O3'-P	7.83	1.70	1.61
85	5	1145	G	N9-C8	-7.83	1.32	1.37
36	1	799	G	N9-C8	-7.83	1.32	1.37
36	1	808	A	C6-N6	-7.83	1.27	1.33
1	2	1076	A	N3-C4	-7.83	1.30	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	640	U	N1-C2	-7.83	1.31	1.38
85	5	1519	G	C5-C6	-7.83	1.34	1.42
85	5	1159	A	N7-C5	-7.83	1.34	1.39
85	5	3277	U	N3-C4	7.83	1.45	1.38
80	6	1774	G	C6-N1	-7.83	1.34	1.39
85	5	38	U	N1-C2	-7.83	1.31	1.38
85	5	2124	G	N3-C4	-7.83	1.29	1.35
85	5	3305	A	N3-C4	-7.83	1.30	1.34
80	6	92	A	N9-C4	-7.82	1.33	1.37
80	6	463	U	N3-C4	7.82	1.45	1.38
85	5	2791	G	N3-C4	-7.82	1.29	1.35
36	1	108	A	C5-C4	-7.82	1.33	1.38
36	1	836	A	N9-C4	-7.82	1.33	1.37
37	3	84	A	C6-N1	-7.82	1.30	1.35
85	5	1310	G	N7-C5	-7.82	1.34	1.39
85	5	2333	C	N1-C2	-7.82	1.32	1.40
38	4	10	A	N3-C4	-7.82	1.30	1.34
85	5	249	U	N1-C2	7.82	1.45	1.38
85	5	2734	A	N7-C5	-7.82	1.34	1.39
1	2	630	A	N9-C4	-7.82	1.33	1.37
36	1	2185	G	C2-N3	-7.82	1.26	1.32
36	1	3130	A	N9-C4	-7.82	1.33	1.37
85	5	1902	G	C5-C4	-7.82	1.32	1.38
1	2	594	A	N9-C4	7.82	1.42	1.37
36	1	43	A	N9-C4	-7.82	1.33	1.37
85	5	1842	A	N9-C4	-7.82	1.33	1.37
36	1	1083	G	C6-N1	-7.82	1.34	1.39
36	1	1115	G	N7-C5	-7.82	1.34	1.39
36	1	1410	U	N3-C4	-7.82	1.31	1.38
36	1	3171	U	C2-N3	7.82	1.43	1.37
80	6	58	U	C4-O4	7.82	1.29	1.23
80	6	266	A	C6-N1	-7.82	1.30	1.35
85	5	164	A	N3-C4	7.82	1.39	1.34
85	5	1509	A	N7-C5	7.82	1.44	1.39
85	5	3049	A	N3-C4	-7.82	1.30	1.34
85	5	355	A	N3-C4	-7.81	1.30	1.34
85	5	2686	A	N9-C4	-7.81	1.33	1.37
36	1	1136	A	N9-C8	-7.81	1.31	1.37
85	5	2363	A	N9-C4	-7.81	1.33	1.37
36	1	305	U	N3-C4	-7.81	1.31	1.38
85	5	926	A	N3-C4	-7.81	1.30	1.34
36	1	53	G	N9-C8	-7.81	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	411	U	N1-C6	-7.81	1.30	1.38
36	1	787	G	C5-C4	-7.81	1.32	1.38
85	5	421	G	C8-N7	-7.81	1.26	1.30
85	5	2215	A	C5-C6	-7.81	1.34	1.41
85	5	1909	A	N9-C4	-7.80	1.33	1.37
36	1	2525	G	N3-C4	-7.80	1.29	1.35
52	M6	126	VAL	CB-CG1	-7.80	1.36	1.52
36	1	115	A	C5-C4	-7.80	1.33	1.38
36	1	305	U	N1-C2	-7.80	1.31	1.38
85	5	953	G	N9-C4	-7.80	1.31	1.38
85	5	1114	U	N1-C6	-7.80	1.30	1.38
36	1	2897	A	N9-C4	-7.80	1.33	1.37
36	1	3391	A	N9-C4	-7.80	1.33	1.37
85	5	2761	G	C5-C4	-7.80	1.32	1.38
36	1	2222	A	N3-C4	-7.79	1.30	1.34
36	1	2771	U	N1-C2	7.79	1.45	1.38
36	1	45	A	N9-C4	-7.79	1.33	1.37
85	5	2914	G	C5-C4	-7.79	1.32	1.38
1	2	354	C	N1-C6	-7.79	1.32	1.37
36	1	1441	G	N3-C4	-7.79	1.29	1.35
36	1	2317	A	N3-C4	-7.79	1.30	1.34
85	5	939	U	N1-C2	-7.79	1.31	1.38
36	1	1459	C	N3-C4	-7.78	1.28	1.33
85	5	2796	G	C5-C4	-7.78	1.32	1.38
36	1	2824	G	N9-C4	-7.78	1.31	1.38
85	5	1158	A	N9-C4	-7.78	1.33	1.37
85	5	1896	A	C5-C6	-7.78	1.34	1.41
36	1	165	A	C5-C4	7.78	1.44	1.38
36	1	1131	G	N9-C8	-7.78	1.32	1.37
85	5	844	G	C6-N1	-7.78	1.34	1.39
85	5	2951	G	N3-C4	-7.78	1.30	1.35
85	5	3243	A	N9-C8	-7.78	1.31	1.37
36	1	1395	G	C5-C4	-7.78	1.32	1.38
36	1	2508	U	C2-N3	7.78	1.43	1.37
38	8	52	A	N7-C5	-7.78	1.34	1.39
80	6	673	A	N9-C4	7.78	1.42	1.37
85	5	108	A	C5-C4	-7.78	1.33	1.38
85	5	941	G	C6-O6	-7.78	1.17	1.24
85	5	630	A	N9-C8	-7.78	1.31	1.37
85	5	1546	A	N9-C4	-7.78	1.33	1.37
36	1	815	G	C6-N1	-7.77	1.34	1.39
85	5	1343	A	N3-C4	-7.77	1.30	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1432	C	N1-C6	-7.77	1.32	1.37
36	1	3123	A	N9-C4	-7.77	1.33	1.37
85	5	1468	A	N9-C4	-7.77	1.33	1.37
1	2	1732	A	N9-C4	-7.77	1.33	1.37
36	1	407	A	N7-C5	-7.77	1.34	1.39
80	6	353	A	N9-C4	-7.77	1.33	1.37
85	5	896	A	C5-C6	-7.77	1.34	1.41
85	5	3041	U	C4-O4	-7.77	1.17	1.23
36	1	1758	G	N7-C5	7.77	1.44	1.39
85	5	715	A	C6-N1	-7.77	1.30	1.35
36	1	811	U	N3-C4	-7.76	1.31	1.38
36	1	2704	A	N7-C5	-7.76	1.34	1.39
85	5	1139	G	N9-C4	-7.76	1.31	1.38
80	6	1775	U	N1-C2	-7.76	1.31	1.38
85	5	1475	A	N7-C5	-7.76	1.34	1.39
80	6	1070	C	C2-N3	7.76	1.42	1.35
85	5	1438	U	N1-C6	-7.76	1.30	1.38
85	5	2909	U	N1-C2	-7.76	1.31	1.38
36	1	915	A	C5-C4	-7.76	1.33	1.38
85	5	640	U	N1-C6	-7.76	1.30	1.38
85	5	2280	A	N7-C5	-7.76	1.34	1.39
36	1	2752	U	N1-C6	-7.76	1.30	1.38
36	1	3107	U	C2-N3	-7.76	1.32	1.37
62	N6	88	GLU	CG-CD	7.76	1.63	1.51
85	5	1113	G	N3-C4	-7.76	1.30	1.35
85	5	1477	A	C5-C6	-7.76	1.34	1.41
59	N3	8	GLY	C-O	-7.75	1.11	1.23
36	1	942	U	C2-O2	-7.75	1.15	1.22
36	1	1429	G	N1-C2	-7.75	1.31	1.37
36	1	2832	C	N3-C4	-7.75	1.28	1.33
36	1	2908	G	N1-C2	-7.75	1.31	1.37
36	1	2396	G	N3-C4	-7.75	1.30	1.35
85	5	48	A	N3-C4	-7.75	1.30	1.34
85	5	895	A	C6-N1	-7.75	1.30	1.35
85	5	2920	U	N1-C6	-7.75	1.30	1.38
36	1	865	U	N1-C2	-7.75	1.31	1.38
36	1	504	A	N3-C4	-7.75	1.30	1.34
36	1	1849	C	N1-C6	-7.75	1.32	1.37
85	5	1880	U	N3-C4	-7.75	1.31	1.38
36	1	1136	A	N3-C4	-7.75	1.30	1.34
36	1	2852	C	N1-C6	-7.75	1.32	1.37
80	6	1014	G	N3-C4	-7.75	1.30	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2847	A	N9-C4	-7.75	1.33	1.37
36	1	2957	G	C2-N3	-7.74	1.26	1.32
80	6	1643	U	N3-C4	-7.74	1.31	1.38
80	6	1730	A	N3-C4	-7.74	1.30	1.34
85	5	794	U	N1-C2	-7.74	1.31	1.38
36	1	968	G	C8-N7	-7.74	1.26	1.30
36	1	1581	C	N3-C4	7.74	1.39	1.33
85	5	3213	A	N3-C4	-7.74	1.30	1.34
36	1	430	U	N1-C2	-7.74	1.31	1.38
36	1	1300	G	C5-C4	-7.74	1.32	1.38
85	5	358	G	N9-C4	-7.74	1.31	1.38
85	5	3113	A	C6-N1	-7.74	1.30	1.35
36	1	440	A	C5-C4	7.74	1.44	1.38
36	1	1092	C	N1-C6	7.74	1.41	1.37
85	5	585	A	N9-C4	-7.74	1.33	1.37
85	5	3135	U	C2-N3	-7.74	1.32	1.37
80	6	606	A	C2'-O2'	7.73	1.51	1.41
85	5	1388	U	N1-C2	-7.73	1.31	1.38
85	5	2848	G	C6-N1	-7.73	1.34	1.39
80	6	987	G	N7-C5	7.73	1.43	1.39
85	5	2989	U	C4-C5	-7.73	1.36	1.43
36	1	510	G	C5-C6	-7.73	1.34	1.42
85	5	2703	A	N3-C4	-7.73	1.30	1.34
36	1	1853	U	C2-N3	-7.73	1.32	1.37
38	8	3	A	P-OP2	7.73	1.62	1.49
1	2	1100	U	N1-C2	-7.73	1.31	1.38
36	1	926	A	N9-C4	-7.73	1.33	1.37
36	1	1153	A	C5-C4	-7.73	1.33	1.38
36	1	2864	A	C6-N1	-7.73	1.30	1.35
80	6	1635	A	C5-C6	-7.73	1.34	1.41
41	L4	265	GLU	CG-CD	7.73	1.63	1.51
36	1	2940	A	C5-C4	-7.72	1.33	1.38
85	5	872	U	C4-O4	-7.72	1.17	1.23
85	5	1865	A	N3-C4	-7.72	1.30	1.34
36	1	1167	U	N1-C2	-7.72	1.31	1.38
36	1	1578	C	N1-C6	7.72	1.41	1.37
85	5	1361	U	N1-C2	-7.72	1.31	1.38
85	5	585	A	P-OP2	7.72	1.62	1.49
37	7	66	A	N9-C8	-7.72	1.31	1.37
36	1	1593	A	N7-C5	-7.72	1.34	1.39
36	1	2706	G	N7-C5	-7.72	1.34	1.39
36	1	3000	A	N3-C4	-7.72	1.30	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	565	C	N3-C4	-7.72	1.28	1.33
85	5	2757	U	C2-O2	-7.72	1.15	1.22
52	m6	3	VAL	CA-CB	7.72	1.71	1.54
36	1	1452	A	N9-C4	-7.71	1.33	1.37
85	5	31	C	N1-C6	-7.71	1.32	1.37
85	5	437	G	N7-C5	7.71	1.43	1.39
85	5	1006	A	N9-C4	-7.71	1.33	1.37
36	1	2943	G	C5-C6	-7.71	1.34	1.42
85	5	317	A	N7-C5	-7.71	1.34	1.39
54	M8	87	VAL	CB-CG2	-7.71	1.36	1.52
85	5	1450	G	N9-C4	-7.71	1.31	1.38
36	1	99	A	N9-C4	-7.71	1.33	1.37
36	1	1522	U	N3-C4	-7.71	1.31	1.38
36	1	3347	A	N9-C4	7.71	1.42	1.37
85	5	914	A	C5-C6	-7.71	1.34	1.41
85	5	1662	G	N1-C2	7.71	1.44	1.37
36	1	2619	G	C5-C4	-7.71	1.32	1.38
85	5	311	C	N3-C4	-7.71	1.28	1.33
85	5	366	A	N3-C4	-7.71	1.30	1.34
36	1	940	G	C5-C4	-7.71	1.32	1.38
36	1	1370	G	N9-C4	-7.71	1.31	1.38
36	1	2535	A	N3-C4	7.71	1.39	1.34
36	1	2862	U	N1-C6	-7.71	1.31	1.38
36	1	2908	G	C6-N1	-7.71	1.34	1.39
85	5	1429	G	C5-C4	-7.71	1.32	1.38
85	5	1513	G	N7-C5	-7.71	1.34	1.39
85	5	1542	G	N9-C8	7.71	1.43	1.37
36	1	342	A	N3-C4	-7.70	1.30	1.34
36	1	2697	A	N3-C4	-7.70	1.30	1.34
85	5	1935	G	N9-C4	-7.70	1.31	1.38
85	5	2379	U	C2-N3	-7.70	1.32	1.37
85	5	3140	G	C6-N1	-7.70	1.34	1.39
36	1	105	C	N1-C6	-7.70	1.32	1.37
36	1	915	A	N7-C5	-7.70	1.34	1.39
85	5	2619	G	C5-C4	-7.70	1.32	1.38
85	5	2801	A	C5-C4	-7.70	1.33	1.38
85	5	1058	U	N1-C6	-7.70	1.31	1.38
85	5	1477	A	C6-N1	-7.70	1.30	1.35
85	5	2950	G	N3-C4	-7.70	1.30	1.35
80	6	678	A	C5-C6	7.70	1.48	1.41
36	1	1877	U	N1-C2	-7.70	1.31	1.38
36	1	2338	C	N1-C6	-7.70	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	7	116	C	N1-C2	-7.70	1.32	1.40
38	8	77	A	N9-C4	-7.70	1.33	1.37
36	1	1057	A	N7-C5	-7.69	1.34	1.39
80	6	448	C	N3-C4	-7.69	1.28	1.33
80	6	1750	A	C5-C4	-7.69	1.33	1.38
85	5	3025	C	N1-C6	-7.69	1.32	1.37
36	1	801	A	N7-C5	-7.69	1.34	1.39
85	5	893	C	N3-C4	-7.69	1.28	1.33
80	6	40	A	N7-C5	-7.69	1.34	1.39
85	5	953	G	C6-O6	-7.69	1.17	1.24
1	2	47	A	N9-C4	-7.68	1.33	1.37
85	5	283	G	N7-C5	-7.68	1.34	1.39
85	5	934	G	N3-C4	-7.68	1.30	1.35
85	5	2386	A	C5-C6	-7.68	1.34	1.41
38	8	2	A	C6-N1	-7.68	1.30	1.35
36	1	976	U	N1-C2	-7.68	1.31	1.38
36	1	1026	A	N3-C4	7.68	1.39	1.34
36	1	2378	C	N1-C6	-7.68	1.32	1.37
85	5	1536	G	C5-C6	-7.68	1.34	1.42
36	1	588	G	N1-C2	-7.68	1.31	1.37
36	1	911	C	N3-C4	-7.68	1.28	1.33
36	1	1412	G	N3-C4	-7.68	1.30	1.35
36	1	2356	A	N3-C4	-7.68	1.30	1.34
36	1	2847	A	N9-C4	-7.68	1.33	1.37
36	1	211	A	C6-N1	-7.68	1.30	1.35
85	5	1722	U	C2-N3	-7.68	1.32	1.37
85	5	2897	A	C5-C4	-7.68	1.33	1.38
36	1	1194	G	P-OP1	7.68	1.61	1.49
10	s8	168	CYS	CB-SG	-7.68	1.69	1.82
36	1	2972	G	N7-C5	-7.67	1.34	1.39
36	1	3186	A	N3-C4	-7.67	1.30	1.34
85	5	926	A	C6-N1	-7.67	1.30	1.35
36	1	610	G	C2-N3	-7.67	1.26	1.32
85	5	2695	A	N3-C4	-7.67	1.30	1.34
85	5	3313	U	N1-C2	-7.67	1.31	1.38
57	n1	104	GLU	CG-CD	7.67	1.63	1.51
36	1	649	A	N9-C4	-7.67	1.33	1.37
36	1	713	U	N1-C6	-7.67	1.31	1.38
80	6	438	A	C6-N1	-7.67	1.30	1.35
85	5	657	A	N7-C5	-7.67	1.34	1.39
85	5	3186	A	N3-C4	-7.67	1.30	1.34
1	2	1637	G	N1-C2	-7.67	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1399	A	N9-C4	-7.67	1.33	1.37
36	1	3277	U	N3-C4	7.67	1.45	1.38
85	5	2317	A	C6-N1	-7.67	1.30	1.35
85	5	3048	A	N3-C4	-7.66	1.30	1.34
46	19	43	VAL	CB-CG2	-7.66	1.36	1.52
36	1	328	U	C2-N3	-7.66	1.32	1.37
85	5	652	G	C6-N1	-7.66	1.34	1.39
85	5	1896	A	C5-C4	-7.66	1.33	1.38
85	5	94	G	N3-C4	-7.66	1.30	1.35
85	5	3173	G	N1-C2	-7.66	1.31	1.37
36	1	1404	G	N3-C4	-7.65	1.30	1.35
36	1	2987	A	C5-C4	-7.65	1.33	1.38
38	4	17	A	N7-C5	-7.65	1.34	1.39
80	6	1084	A	C6-N1	-7.65	1.30	1.35
85	5	970	A	N3-C4	-7.65	1.30	1.34
85	5	646	A	N7-C5	-7.65	1.34	1.39
85	5	3021	A	N9-C4	-7.65	1.33	1.37
80	6	1755	A	N7-C5	-7.65	1.34	1.39
85	5	307	A	C6-N1	-7.65	1.30	1.35
85	5	586	C	N1-C6	-7.65	1.32	1.37
38	4	43	A	C5-C4	-7.65	1.33	1.38
80	6	1148	C	N3-C4	-7.65	1.28	1.33
85	5	2326	A	C8-N7	-7.65	1.26	1.31
85	5	2625	C	N1-C6	-7.65	1.32	1.37
36	1	870	G	C5-C6	-7.64	1.34	1.42
80	6	1108	G	N3-C4	-7.64	1.30	1.35
36	1	516	A	C5-C6	-7.64	1.34	1.41
44	17	86	VAL	CB-CG2	-7.64	1.36	1.52
85	5	1406	A	C5-C4	-7.64	1.33	1.38
85	5	2098	C	N1-C6	7.64	1.41	1.37
36	1	1111	U	N1-C6	-7.64	1.31	1.38
49	M3	18	TRP	CE3-CZ3	-7.64	1.25	1.38
85	5	2747	A	N3-C4	-7.64	1.30	1.34
85	5	61	A	C6-N1	-7.64	1.30	1.35
85	5	2756	C	N3-C4	-7.64	1.28	1.33
36	1	2910	A	C5-C4	-7.64	1.33	1.38
80	6	1136	U	N3-C4	-7.64	1.31	1.38
85	5	504	A	N9-C4	-7.64	1.33	1.37
80	6	266	A	N3-C4	-7.63	1.30	1.34
85	5	2925	C	N1-C6	-7.63	1.32	1.37
36	1	76	G	N1-C2	-7.63	1.31	1.37
85	5	822	G	C2-N3	-7.63	1.26	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2402	A	N7-C5	-7.63	1.34	1.39
80	6	1757	G	N9-C8	-7.63	1.32	1.37
85	5	2717	U	N1-C2	-7.63	1.31	1.38
80	6	471	A	N3-C4	-7.63	1.30	1.34
36	1	1082	U	N3-C4	-7.63	1.31	1.38
36	1	1887	A	N3-C4	-7.63	1.30	1.34
85	5	1170	A	N9-C4	-7.63	1.33	1.37
36	1	350	C	C2-N3	-7.62	1.29	1.35
36	1	1385	C	N1-C6	-7.62	1.32	1.37
36	1	1673	G	N7-C5	-7.62	1.34	1.39
85	5	2147	A	C5-C4	-7.62	1.33	1.38
38	4	17	A	C6-N1	-7.62	1.30	1.35
85	5	721	G	C6-O6	7.62	1.31	1.24
85	5	970	A	C8-N7	-7.62	1.26	1.31
36	1	909	G	N9-C8	-7.62	1.32	1.37
36	1	3296	A	C5-C6	-7.62	1.34	1.41
36	1	611	A	N3-C4	-7.62	1.30	1.34
38	8	126	A	P-OP1	7.62	1.61	1.49
80	6	923	A	N3-C4	-7.62	1.30	1.34
36	1	1522	U	N1-C6	-7.62	1.31	1.38
85	5	2400	G	C5-C6	-7.61	1.34	1.42
85	5	2177	G	C6-O6	7.61	1.31	1.24
85	5	2336	U	C2-N3	-7.61	1.32	1.37
85	5	666	A	C6-N1	-7.61	1.30	1.35
85	5	1009	A	N7-C5	-7.61	1.34	1.39
85	5	2838	A	C5-C4	-7.61	1.33	1.38
85	5	3197	G	C5-C4	7.61	1.43	1.38
36	1	799	G	N9-C4	-7.61	1.31	1.38
85	5	2732	G	C6-O6	7.61	1.30	1.24
85	5	2830	G	N9-C8	-7.61	1.32	1.37
36	1	363	G	C5-C4	-7.61	1.33	1.38
36	1	2738	A	N7-C5	-7.61	1.34	1.39
80	6	845	G	C8-N7	7.61	1.35	1.30
85	5	1162	U	N1-C6	-7.61	1.31	1.38
85	5	2341	A	C5-C4	-7.61	1.33	1.38
85	5	2607	G	N9-C8	-7.61	1.32	1.37
80	6	1084	A	N3-C4	-7.61	1.30	1.34
85	5	1909	A	N3-C4	-7.61	1.30	1.34
85	5	2340	U	C4-O4	-7.61	1.17	1.23
85	5	2658	G	N3-C4	-7.61	1.30	1.35
36	1	404	G	C6-N1	-7.60	1.34	1.39
85	5	428	A	N3-C4	-7.60	1.30	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2804	A	C5-C4	-7.60	1.33	1.38
36	1	1723	A	C5-C4	-7.60	1.33	1.38
36	1	953	G	N9-C8	-7.60	1.32	1.37
36	1	1153	A	N9-C4	-7.60	1.33	1.37
36	1	1379	G	N9-C8	-7.60	1.32	1.37
36	1	2802	A	N9-C4	-7.60	1.33	1.37
85	5	755	A	C5-C6	-7.60	1.34	1.41
85	5	2726	C	N3-C4	-7.60	1.28	1.33
85	5	3036	G	C6-O6	7.60	1.30	1.24
78	q2	88	CYS	CB-SG	-7.60	1.69	1.82
36	1	1479	U	N1-C2	-7.60	1.31	1.38
36	1	2096	A	C5-C4	7.60	1.44	1.38
80	6	1065	A	N9-C4	-7.59	1.33	1.37
85	5	1145	G	C6-N1	-7.59	1.34	1.39
36	1	2933	A	C5-C6	-7.59	1.34	1.41
85	5	1886	A	C2-N3	-7.59	1.26	1.33
85	5	2635	A	C6-N1	-7.59	1.30	1.35
85	5	2791	G	C5-C4	-7.59	1.33	1.38
56	n0	17	GLU	CG-CD	7.59	1.63	1.51
36	1	1468	A	N3-C4	-7.59	1.30	1.34
36	1	274	G	N9-C4	-7.59	1.31	1.38
36	1	1581	C	C2-N3	7.59	1.41	1.35
36	1	2125	A	C5-C6	-7.59	1.34	1.41
80	6	1748	G	C6-N1	7.59	1.44	1.39
85	5	708	G	N7-C5	-7.59	1.34	1.39
85	5	1575	A	N3-C4	7.59	1.39	1.34
85	5	3336	A	C6-N1	-7.59	1.30	1.35
36	1	2889	C	C2-N3	-7.58	1.29	1.35
85	5	2288	G	C2-N2	-7.58	1.26	1.34
85	5	3057	U	C2-N3	-7.58	1.32	1.37
36	1	574	U	C2-N3	-7.58	1.32	1.37
36	1	1425	U	C2-N3	-7.58	1.32	1.37
36	1	2205	U	N1-C2	7.58	1.45	1.38
38	4	79	A	N1-C2	7.58	1.41	1.34
85	5	2507	C	N1-C6	7.58	1.41	1.37
85	5	1144	U	C2-N3	-7.58	1.32	1.37
85	5	2900	A	N3-C4	-7.58	1.30	1.34
36	1	632	G	N7-C5	-7.58	1.34	1.39
36	1	1147	G	C6-N1	-7.58	1.34	1.39
1	2	135	A	N9-C4	7.58	1.42	1.37
36	1	1183	C	N1-C6	-7.58	1.32	1.37
36	1	1886	A	C6-N1	-7.58	1.30	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1117	G	N9-C4	-7.58	1.31	1.38
85	5	1914	G	C6-N1	-7.58	1.34	1.39
85	5	2654	C	C4-C5	-7.58	1.36	1.43
36	1	421	G	N1-C2	-7.58	1.31	1.37
36	1	2379	U	C4-C5	-7.58	1.36	1.43
85	5	642	U	N1-C6	-7.57	1.31	1.38
85	5	2200	U	C2-N3	-7.57	1.32	1.37
36	1	2965	U	N1-C2	-7.57	1.31	1.38
85	5	13	A	N9-C4	-7.57	1.33	1.37
85	5	1436	U	C2-N3	-7.57	1.32	1.37
85	5	1490	A	N3-C4	-7.57	1.30	1.34
85	5	1898	G	N9-C8	-7.57	1.32	1.37
85	5	2885	C	N1-C2	-7.57	1.32	1.40
36	1	2836	C	N1-C6	-7.57	1.32	1.37
80	6	7	G	N7-C5	-7.57	1.34	1.39
80	6	396	G	C6-N1	-7.57	1.34	1.39
85	5	1367	G	C6-O6	7.57	1.30	1.24
85	5	1761	C	C2-O2	7.57	1.31	1.24
36	1	670	C	N1-C6	-7.57	1.32	1.37
80	6	1321	A	N9-C4	-7.57	1.33	1.37
80	6	1800	A	N7-C5	7.57	1.43	1.39
85	5	2869	U	C2-N3	-7.57	1.32	1.37
85	5	220	G	N9-C4	-7.56	1.31	1.38
85	5	1174	G	C6-N1	-7.56	1.34	1.39
85	5	2290	C	N1-C6	-7.56	1.32	1.37
85	5	1111	U	C2-N3	-7.56	1.32	1.37
85	5	3156	U	N1-C2	7.56	1.45	1.38
37	7	45	A	C6-N6	-7.56	1.27	1.33
36	1	1495	U	N1-C2	-7.56	1.31	1.38
73	O7	22	CYS	CB-SG	-7.56	1.69	1.82
36	1	846	A	N3-C4	-7.56	1.30	1.34
36	1	1888	U	N3-C4	-7.56	1.31	1.38
36	1	1209	G	N3-C4	-7.55	1.30	1.35
85	5	1189	C	C2-N3	-7.55	1.29	1.35
80	6	973	A	N7-C5	-7.55	1.34	1.39
85	5	2378	C	N1-C6	-7.55	1.32	1.37
85	5	2742	C	N1-C6	-7.55	1.32	1.37
36	1	2910	A	N9-C8	-7.55	1.31	1.37
36	1	2934	A	N9-C8	-7.55	1.31	1.37
85	5	1660	C	C4-C5	-7.55	1.36	1.43
56	n0	19	VAL	CB-CG2	-7.55	1.36	1.52
36	1	832	G	C6-N1	-7.55	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	1656	U	N1-C2	-7.55	1.31	1.38
85	5	1347	U	C4-O4	7.55	1.29	1.23
85	5	2817	A	N7-C5	-7.55	1.34	1.39
52	m6	182	ASN	CB-CG	7.55	1.68	1.51
68	O2	57	TYR	CD1-CE1	-7.54	1.28	1.39
85	5	926	A	N7-C5	-7.54	1.34	1.39
85	5	3044	G	N7-C5	-7.54	1.34	1.39
1	2	886	U	C2-N3	7.54	1.43	1.37
36	1	671	U	N1-C2	-7.54	1.31	1.38
85	5	2819	A	N7-C5	-7.54	1.34	1.39
36	1	2305	G	N7-C5	-7.54	1.34	1.39
85	5	2358	A	N3-C4	-7.54	1.30	1.34
36	1	854	G	N3-C4	-7.54	1.30	1.35
36	1	2741	C	N1-C6	-7.54	1.32	1.37
80	6	313	U	N1-C2	-7.54	1.31	1.38
85	5	748	U	C4-C5	7.54	1.50	1.43
85	5	1003	A	C5-C6	-7.54	1.34	1.41
85	5	2403	G	N1-C2	7.54	1.43	1.37
85	5	2894	C	N3-C4	-7.54	1.28	1.33
85	5	3206	C	N1-C6	-7.54	1.32	1.37
36	1	189	G	C6-N1	-7.54	1.34	1.39
36	1	2525	G	N9-C4	-7.54	1.31	1.38
85	5	870	G	N9-C8	7.54	1.43	1.37
85	5	3375	A	C6-N1	-7.54	1.30	1.35
36	1	437	G	C5-C4	7.53	1.43	1.38
85	5	715	A	C6-N6	-7.53	1.27	1.33
85	5	1881	A	N7-C5	-7.53	1.34	1.39
85	5	1348	U	C2-O2	7.53	1.29	1.22
36	1	2820	A	N3-C4	-7.53	1.30	1.34
36	1	1879	A	N3-C4	-7.53	1.30	1.34
80	6	574	G	N3-C4	-7.53	1.30	1.35
36	1	1679	A	N9-C4	-7.52	1.33	1.37
85	5	672	A	N1-C2	-7.52	1.27	1.34
85	5	2550	U	N3-C4	-7.52	1.31	1.38
36	1	317	A	C6-N1	-7.52	1.30	1.35
80	6	1116	A	C5-C6	-7.52	1.34	1.41
80	6	1775	U	N1-C6	-7.52	1.31	1.38
85	5	193	C	N1-C6	-7.52	1.32	1.37
85	5	3212	C	N1-C2	-7.52	1.32	1.40
38	4	87	G	N7-C5	7.52	1.43	1.39
62	N6	127	GLU	CB-CG	7.52	1.66	1.52
85	5	810	A	C5-C6	-7.52	1.34	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2296	A	N9-C8	-7.52	1.31	1.37
36	1	971	G	C5-C6	-7.52	1.34	1.42
80	6	364	G	N3-C4	-7.52	1.30	1.35
85	5	2200	U	N3-C4	-7.52	1.31	1.38
85	5	2303	A	C5-C4	-7.52	1.33	1.38
85	5	3325	G	N3-C4	-7.52	1.30	1.35
85	5	1102	A	C6-N1	-7.52	1.30	1.35
85	5	1463	U	N1-C2	-7.51	1.31	1.38
36	1	98	G	C2-N2	-7.51	1.27	1.34
36	1	1741	A	N3-C4	-7.51	1.30	1.34
37	3	81	U	N1-C6	-7.51	1.31	1.38
85	5	801	A	C6-N1	-7.51	1.30	1.35
85	5	1806	A	P-OP2	7.51	1.61	1.49
38	8	17	A	N9-C4	-7.51	1.33	1.37
36	1	2979	U	N1-C6	-7.51	1.31	1.38
85	5	810	A	N9-C4	-7.51	1.33	1.37
85	5	884	A	C6-N1	-7.51	1.30	1.35
85	5	1907	C	N3-C4	-7.51	1.28	1.33
42	15	37	VAL	CB-CG2	-7.51	1.37	1.52
36	1	823	C	N1-C2	-7.51	1.32	1.40
36	1	3380	U	C2-N3	7.51	1.43	1.37
85	5	854	G	N7-C5	-7.51	1.34	1.39
85	5	1055	A	C6-N1	-7.51	1.30	1.35
85	5	2394	G	N9-C8	-7.51	1.32	1.37
85	5	2830	G	N3-C4	-7.51	1.30	1.35
36	1	2630	C	N3-C4	-7.50	1.28	1.33
85	5	995	U	C2-N3	-7.50	1.32	1.37
85	5	2890	A	C6-N1	-7.50	1.30	1.35
36	1	30	G	N3-C4	-7.50	1.30	1.35
36	1	786	A	N9-C8	-7.50	1.31	1.37
36	1	1199	C	N1-C6	-7.50	1.32	1.37
85	5	829	U	C2-N3	-7.50	1.32	1.37
85	5	1362	G	N1-C2	-7.50	1.31	1.37
38	8	138	A	N3-C4	-7.50	1.30	1.34
36	1	2349	U	N1-C2	-7.50	1.31	1.38
36	1	3025	C	N1-C6	-7.50	1.32	1.37
80	6	1634	C	C2-O2	7.50	1.31	1.24
85	5	3300	U	P-OP1	7.50	1.61	1.49
36	1	904	A	N3-C4	-7.50	1.30	1.34
36	1	1891	A	N3-C4	-7.50	1.30	1.34
36	1	2169	G	N3-C4	7.50	1.40	1.35
85	5	679	U	N1-C6	-7.50	1.31	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1476	G	N9-C4	-7.50	1.31	1.38
85	5	3091	A	C5-C4	-7.50	1.33	1.38
38	8	3	A	C5-C6	-7.50	1.34	1.41
36	1	2522	G	N9-C4	7.50	1.44	1.38
36	1	2645	G	C2-N2	-7.50	1.27	1.34
85	5	1152	G	N3-C4	-7.50	1.30	1.35
38	8	137	C	N1-C6	-7.50	1.32	1.37
36	1	1589	A	N7-C5	-7.49	1.34	1.39
36	1	2377	G	C6-N1	-7.49	1.34	1.39
36	1	2395	G	N9-C4	-7.49	1.31	1.38
36	1	2806	U	C2-N3	-7.49	1.32	1.37
85	5	1863	G	N3-C4	-7.49	1.30	1.35
85	5	2356	A	C5-C6	-7.49	1.34	1.41
36	1	909	G	C5-C4	-7.49	1.33	1.38
36	1	1474	A	C6-N1	-7.49	1.30	1.35
85	5	2934	A	N9-C4	7.49	1.42	1.37
36	1	500	C	N1-C6	-7.49	1.32	1.37
36	1	1933	A	N7-C5	-7.49	1.34	1.39
85	5	2913	C	N3-C4	-7.49	1.28	1.33
85	5	3332	U	N1-C2	-7.49	1.31	1.38
38	8	56	G	N3-C4	-7.49	1.30	1.35
36	1	1376	C	N1-C6	-7.49	1.32	1.37
36	1	2286	U	N1-C6	-7.49	1.31	1.38
36	1	2353	G	N9-C8	-7.49	1.32	1.37
85	5	1879	A	N9-C4	-7.49	1.33	1.37
85	5	578	A	N7-C5	-7.49	1.34	1.39
36	1	19	U	N1-C6	-7.49	1.31	1.38
85	5	1845	G	N7-C5	-7.49	1.34	1.39
85	5	2825	C	N1-C2	-7.49	1.32	1.40
41	14	164	GLU	CB-CG	7.49	1.66	1.52
38	4	138	A	N9-C4	-7.48	1.33	1.37
38	4	146	U	N1-C2	-7.48	1.31	1.38
85	5	2755	C	N1-C6	-7.48	1.32	1.37
36	1	815	G	C2-N3	-7.48	1.26	1.32
36	1	2701	U	C2-N3	-7.48	1.32	1.37
36	1	285	A	C6-N1	-7.48	1.30	1.35
85	5	2420	C	N1-C6	-7.48	1.32	1.37
85	5	3029	A	C6-N1	-7.48	1.30	1.35
36	1	370	U	C2-N3	-7.48	1.32	1.37
36	1	2833	A	N9-C8	-7.48	1.31	1.37
36	1	3237	U	N1-C2	7.48	1.45	1.38
85	5	988	U	N3-C4	-7.48	1.31	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1625	A	N9-C4	-7.48	1.33	1.37
85	5	1899	G	N3-C4	-7.48	1.30	1.35
85	5	2338	C	N1-C2	-7.48	1.32	1.40
85	5	2796	G	N9-C8	-7.48	1.32	1.37
36	1	1140	G	N7-C5	-7.47	1.34	1.39
37	7	6	C	N1-C6	-7.47	1.32	1.37
38	8	111	A	N7-C5	-7.47	1.34	1.39
1	2	1715	A	C6-N1	-7.47	1.30	1.35
80	6	438	A	N3-C4	-7.47	1.30	1.34
36	1	2397	A	C8-N7	-7.47	1.26	1.31
36	1	645	A	C6-N1	-7.47	1.30	1.35
36	1	2988	C	N1-C6	-7.47	1.32	1.37
36	1	2350	C	N1-C6	-7.47	1.32	1.37
85	5	236	G	N1-C2	-7.47	1.43	1.37
85	5	2356	A	C6-N1	-7.47	1.30	1.35
85	5	2790	A	N9-C4	-7.47	1.33	1.37
36	1	48	A	N9-C4	-7.47	1.33	1.37
36	1	80	G	N3-C4	-7.47	1.30	1.35
36	1	2785	A	C6-N1	-7.47	1.30	1.35
36	1	3173	G	N9-C8	-7.47	1.32	1.37
85	5	879	U	N1-C2	-7.47	1.31	1.38
36	1	1407	A	C5-C4	-7.46	1.33	1.38
36	1	3296	A	N3-C4	-7.46	1.30	1.34
85	5	1187	C	N1-C6	-7.46	1.32	1.37
36	1	424	G	N9-C8	-7.46	1.32	1.37
36	1	1446	A	N9-C4	-7.46	1.33	1.37
36	1	2633	U	C2-N3	-7.46	1.32	1.37
40	l3	205	VAL	CB-CG2	-7.46	1.37	1.52
36	1	85	A	N7-C5	-7.46	1.34	1.39
85	5	908	G	C5-C6	-7.46	1.34	1.42
36	1	33	G	C5-C4	-7.46	1.33	1.38
36	1	59	G	C5-C6	-7.46	1.34	1.42
36	1	211	A	N3-C4	-7.46	1.30	1.34
57	N1	67	VAL	CB-CG1	-7.46	1.37	1.52
85	5	776	U	C2-N3	-7.46	1.32	1.37
85	5	1329	U	C2-N3	-7.46	1.32	1.37
85	5	2119	A	C5-C4	-7.46	1.33	1.38
85	5	2132	C	C2-O2	-7.46	1.17	1.24
37	3	66	A	N3-C4	-7.46	1.30	1.34
36	1	3361	G	C6-N1	-7.45	1.34	1.39
85	5	511	G	N9-C8	-7.45	1.32	1.37
85	5	2326	A	N9-C8	-7.45	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2656	A	C6-N1	-7.45	1.30	1.35
36	1	644	G	N3-C4	-7.45	1.30	1.35
36	1	1612	A	N3-C4	-7.45	1.30	1.34
80	6	1111	G	P-OP2	7.45	1.61	1.49
36	1	85	A	N9-C4	-7.45	1.33	1.37
36	1	2987	A	N3-C4	-7.45	1.30	1.34
85	5	996	A	N3-C4	-7.45	1.30	1.34
85	5	3076	C	N1-C6	-7.45	1.32	1.37
36	1	2754	G	N1-C2	-7.45	1.31	1.37
85	5	988	U	C2-N3	-7.45	1.32	1.37
85	5	994	G	N1-C2	-7.45	1.31	1.37
85	5	2989	U	C2-N3	-7.45	1.32	1.37
38	8	44	A	N9-C4	-7.45	1.33	1.37
36	1	3343	G	N7-C5	-7.45	1.34	1.39
85	5	3098	G	C5-C4	-7.45	1.33	1.38
36	1	1172	G	C5-C4	-7.45	1.33	1.38
36	1	2958	A	N3-C4	-7.45	1.30	1.34
36	1	3140	G	C5-C4	-7.45	1.33	1.38
80	6	390	G	N7-C5	-7.45	1.34	1.39
38	8	155	A	N7-C5	7.45	1.43	1.39
36	1	957	C	C2-O2	-7.44	1.17	1.24
36	1	2609	A	C6-N1	-7.44	1.30	1.35
36	1	2985	C	C2-N3	-7.44	1.29	1.35
80	6	16	G	C5-C4	-7.44	1.33	1.38
85	5	2114	C	N1-C2	-7.44	1.32	1.40
85	5	3214	U	C2-N3	-7.44	1.32	1.37
36	1	1353	U	N1-C2	7.44	1.45	1.38
85	5	523	A	C5-C6	-7.44	1.34	1.41
85	5	429	U	P-OP2	7.44	1.61	1.49
85	5	2201	G	N9-C8	-7.44	1.32	1.37
36	1	1596	C	N1-C6	-7.44	1.32	1.37
41	14	222	VAL	C-N	-7.44	1.20	1.34
36	1	632	G	C5-C6	-7.43	1.34	1.42
36	1	2972	G	C5-C6	-7.43	1.34	1.42
38	4	31	G	N9-C4	-7.43	1.32	1.38
85	5	836	A	C5-C4	-7.43	1.33	1.38
85	5	863	C	C2-N3	-7.43	1.29	1.35
85	5	2774	C	N1-C6	-7.43	1.32	1.37
36	1	2879	C	N1-C2	-7.43	1.32	1.40
76	Q0	77	ILE	CA-CB	7.43	1.72	1.54
85	5	1403	C	C2-O2	-7.43	1.17	1.24
85	5	2940	A	N3-C4	-7.43	1.30	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	804	C	C4-C5	-7.43	1.37	1.43
36	1	2960	C	N3-C4	-7.43	1.28	1.33
85	5	443	G	C5-C4	7.43	1.43	1.38
85	5	962	A	N9-C8	-7.43	1.31	1.37
85	5	1352	A	C5-C4	7.43	1.44	1.38
36	1	952	A	N7-C5	-7.43	1.34	1.39
36	1	2370	G	N1-C2	-7.43	1.31	1.37
85	5	2914	G	C6-N1	-7.43	1.34	1.39
38	8	96	A	C5-C4	-7.43	1.33	1.38
36	1	402	A	C6-N1	-7.43	1.30	1.35
36	1	281	G	N3-C4	-7.43	1.30	1.35
38	4	29	U	C2-N3	-7.43	1.32	1.37
36	1	1451	C	N1-C6	-7.42	1.32	1.37
1	2	1097	G	N9-C4	-7.42	1.32	1.38
80	6	1765	A	C6-N1	-7.42	1.30	1.35
36	1	2698	G	C5-C4	-7.42	1.33	1.38
36	1	2731	U	C2-N3	7.42	1.43	1.37
38	8	23	U	N1-C6	-7.42	1.31	1.38
36	1	801	A	C5-C6	-7.42	1.34	1.41
36	1	830	A	N7-C5	-7.42	1.34	1.39
85	5	1733	G	N7-C5	7.42	1.43	1.39
36	1	1330	A	N9-C4	-7.42	1.33	1.37
36	1	672	A	N3-C4	-7.42	1.30	1.34
36	1	1522	U	C2-N3	-7.41	1.32	1.37
36	1	3243	A	N9-C4	-7.41	1.33	1.37
80	6	985	G	C5-C6	-7.41	1.34	1.42
85	5	3184	A	N3-C4	-7.41	1.30	1.34
36	1	2897	A	N3-C4	-7.41	1.30	1.34
85	5	998	A	N3-C4	-7.41	1.30	1.34
85	5	1117	G	C5-C6	-7.41	1.34	1.42
85	5	1479	U	C2-N3	-7.41	1.32	1.37
85	5	1880	U	N1-C2	-7.41	1.31	1.38
85	5	2119	A	N3-C4	-7.41	1.30	1.34
85	5	2796	G	N7-C5	-7.41	1.34	1.39
85	5	2895	G	C5-C4	-7.41	1.33	1.38
85	5	3327	G	C5-C4	7.41	1.43	1.38
38	8	2	A	N7-C5	-7.41	1.34	1.39
36	1	1655	G	N1-C2	-7.41	1.31	1.37
36	1	2243	A	N3-C4	-7.41	1.30	1.34
85	5	774	G	C5-C6	7.41	1.49	1.42
36	1	1884	A	C6-N1	-7.40	1.30	1.35
80	6	585	A	N9-C4	-7.40	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1350	A	C6-N1	7.40	1.40	1.35
85	5	1534	A	N7-C5	-7.40	1.34	1.39
85	5	1839	A	C6-N1	-7.40	1.30	1.35
36	1	680	G	C6-N1	-7.40	1.34	1.39
36	1	1164	G	N9-C4	-7.40	1.32	1.38
36	1	1389	G	C5-C4	-7.40	1.33	1.38
80	6	1294	G	N9-C8	7.40	1.43	1.37
85	5	884	A	N9-C4	-7.40	1.33	1.37
85	5	2862	U	N1-C6	-7.40	1.31	1.38
85	5	2968	G	N9-C4	-7.40	1.32	1.38
36	1	1814	A	N3-C4	7.40	1.39	1.34
85	5	976	U	N1-C2	-7.40	1.31	1.38
80	6	319	U	C2-N3	7.39	1.43	1.37
85	5	2738	A	C6-N1	-7.39	1.30	1.35
36	1	40	A	N9-C4	-7.39	1.33	1.37
80	6	1322	A	N9-C4	-7.39	1.33	1.37
85	5	881	C	C2-N3	-7.39	1.29	1.35
85	5	1184	A	C5-C4	-7.39	1.33	1.38
85	5	3014	U	C2-N3	-7.39	1.32	1.37
36	1	1051	U	N1-C2	-7.39	1.31	1.38
85	5	434	U	N1-C2	-7.39	1.31	1.38
36	1	935	U	N1-C6	-7.39	1.31	1.38
36	1	2869	U	N1-C6	-7.39	1.31	1.38
38	4	46	G	N9-C8	-7.39	1.32	1.37
85	5	374	A	N3-C4	-7.39	1.30	1.34
36	1	1522	U	C4-O4	-7.39	1.17	1.23
85	5	351	A	N9-C4	-7.39	1.33	1.37
85	5	2147	A	C6-N1	-7.39	1.30	1.35
37	3	88	G	N9-C8	-7.39	1.32	1.37
85	5	1913	A	N7-C5	-7.39	1.34	1.39
85	5	2791	G	C6-N1	-7.39	1.34	1.39
1	2	1368	G	C8-N7	7.38	1.35	1.30
85	5	705	A	N3-C4	-7.38	1.30	1.34
80	6	1636	C	C2'-O2'	7.38	1.51	1.41
85	5	13	A	C6-N1	-7.38	1.30	1.35
85	5	1871	U	N3-C4	-7.38	1.31	1.38
85	5	2658	G	C6-N1	-7.38	1.34	1.39
37	7	8	G	C6-N1	-7.38	1.34	1.39
38	8	52	A	C6-N1	-7.38	1.30	1.35
36	1	870	G	N7-C5	-7.38	1.34	1.39
36	1	1294	A	C6-N1	-7.38	1.30	1.35
85	5	229	G	C6-N1	-7.38	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	364	G	C6-N1	-7.38	1.34	1.39
85	5	2832	C	N1-C6	-7.38	1.32	1.37
36	1	610	G	N3-C4	-7.38	1.30	1.35
85	5	2620	G	N7-C5	-7.38	1.34	1.39
1	2	950	A	N9-C4	-7.38	1.33	1.37
85	5	899	U	C2-N3	-7.38	1.32	1.37
36	1	66	A	N9-C4	-7.37	1.33	1.37
80	6	1762	A	N3-C4	-7.37	1.30	1.34
36	1	1364	C	C2-N3	-7.37	1.29	1.35
36	1	2215	A	N3-C4	-7.37	1.30	1.34
85	5	1409	G	N7-C5	-7.37	1.34	1.39
38	8	13	A	N3-C4	-7.37	1.30	1.34
1	2	72	A	N3-C4	7.37	1.39	1.34
36	1	946	U	N1-C6	-7.37	1.31	1.38
85	5	1915	A	N9-C4	-7.37	1.33	1.37
85	5	2635	A	N7-C5	-7.37	1.34	1.39
36	1	2142	A	N3-C4	-7.37	1.30	1.34
36	1	2632	G	N9-C8	-7.37	1.32	1.37
85	5	2814	G	N9-C8	-7.37	1.32	1.37
36	1	424	G	C5-C4	-7.36	1.33	1.38
36	1	1392	G	N9-C8	-7.36	1.32	1.37
36	1	2601	A	N3-C4	-7.36	1.30	1.34
85	5	1303	A	C5-C4	-7.36	1.33	1.38
85	5	2755	C	N3-C4	-7.36	1.28	1.33
85	5	3310	A	N9-C8	-7.36	1.31	1.37
76	q0	95	VAL	CB-CG2	-7.36	1.37	1.52
85	5	1483	G	N9-C4	7.36	1.43	1.38
85	5	2276	G	C5-C4	-7.36	1.33	1.38
85	5	3046	A	N9-C8	-7.36	1.31	1.37
80	6	757	A	N3-C4	-7.36	1.30	1.34
85	5	645	A	C5-C4	-7.36	1.33	1.38
36	1	1794	G	N7-C5	-7.36	1.34	1.39
36	1	2370	G	C5-C4	-7.36	1.33	1.38
85	5	706	A	N3-C4	-7.36	1.30	1.34
85	5	2288	G	N9-C8	-7.36	1.32	1.37
85	5	2957	G	N3-C4	-7.36	1.30	1.35
36	1	201	A	N9-C8	-7.35	1.31	1.37
85	5	2937	G	N3-C4	-7.35	1.30	1.35
41	14	164	GLU	CG-CD	7.35	1.62	1.51
36	1	60	A	C6-N1	-7.35	1.30	1.35
38	4	12	A	N9-C4	-7.35	1.33	1.37
36	1	3336	A	N3-C4	-7.35	1.30	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
69	O3	103	TYR	CD1-CE1	-7.35	1.28	1.39
36	1	425	G	N1-C2	-7.35	1.31	1.37
36	1	3243	A	C6-N1	-7.35	1.30	1.35
85	5	1317	A	C5-C6	-7.35	1.34	1.41
36	1	1117	G	N7-C5	-7.34	1.34	1.39
36	1	1399	A	N3-C4	-7.34	1.30	1.34
36	1	2715	A	C5-C4	-7.34	1.33	1.38
36	1	368	G	N3-C4	-7.34	1.30	1.35
36	1	888	A	N9-C4	-7.34	1.33	1.37
53	m7	126	ARG	CG-CD	7.34	1.70	1.51
36	1	925	A	N7-C5	-7.34	1.34	1.39
36	1	1905	G	N9-C8	-7.34	1.32	1.37
85	5	2864	A	N9-C4	-7.34	1.33	1.37
36	1	401	U	N1-C2	7.34	1.45	1.38
36	1	2890	A	N7-C5	-7.34	1.34	1.39
36	1	2910	A	N3-C4	-7.34	1.30	1.34
85	5	1709	C	N3-C4	-7.34	1.28	1.33
36	1	1513	G	N9-C8	-7.34	1.32	1.37
36	1	2380	U	C4-O4	-7.34	1.17	1.23
36	1	1028	U	C4-O4	7.34	1.29	1.23
36	1	1128	U	N1-C2	-7.34	1.31	1.38
36	1	1141	C	N3-C4	-7.34	1.28	1.33
36	1	1395	G	N3-C4	-7.34	1.30	1.35
36	1	1428	A	N7-C5	-7.34	1.34	1.39
85	5	2287	C	N3-C4	-7.34	1.28	1.33
36	1	603	A	C5-C4	7.33	1.43	1.38
36	1	1101	G	C5-C4	-7.33	1.33	1.38
36	1	1725	C	N1-C6	-7.33	1.32	1.37
52	M6	4	GLU	CG-CD	-7.33	1.41	1.51
85	5	672	A	N3-C4	-7.33	1.30	1.34
85	5	1555	U	N1-C2	7.33	1.45	1.38
85	5	1569	U	C2-N3	7.33	1.42	1.37
36	1	220	G	N3-C4	-7.33	1.30	1.35
36	1	2867	C	C2-N3	-7.33	1.29	1.35
85	5	2350	C	N3-C4	-7.33	1.28	1.33
1	2	1008	A	N3-C4	-7.33	1.30	1.34
36	1	1547	G	C5-C4	-7.33	1.33	1.38
80	6	105	A	N9-C4	-7.33	1.33	1.37
80	6	1746	A	N7-C5	-7.33	1.34	1.39
85	5	666	A	N9-C8	-7.33	1.31	1.37
85	5	1761	C	N1-C6	7.33	1.41	1.37
85	5	2727	A	C6-N1	-7.33	1.30	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1487	G	C6-N1	-7.33	1.34	1.39
85	5	1542	G	N7-C5	7.33	1.43	1.39
85	5	2746	A	N9-C4	-7.33	1.33	1.37
85	5	1916	U	N1-C2	-7.33	1.31	1.38
85	5	2756	C	N1-C6	-7.33	1.32	1.37
36	1	709	A	N9-C8	-7.32	1.31	1.37
36	1	2934	A	N3-C4	-7.32	1.30	1.34
85	5	396	A	N3-C4	-7.32	1.30	1.34
85	5	403	C	N1-C6	-7.32	1.32	1.37
85	5	1809	A	N3-C4	-7.32	1.30	1.34
85	5	1924	U	N1-C6	-7.32	1.31	1.38
85	5	2403	G	C6-N1	7.32	1.44	1.39
36	1	2605	G	C5-C4	-7.32	1.33	1.38
36	1	3091	A	N9-C4	-7.32	1.33	1.37
85	5	830	A	C6-N1	-7.32	1.30	1.35
85	5	1129	A	C5-C6	-7.32	1.34	1.41
85	5	1140	G	C6-N1	-7.32	1.34	1.39
36	1	164	A	N9-C4	7.32	1.42	1.37
85	5	2123	G	N9-C8	-7.32	1.32	1.37
85	5	2569	A	C5-C4	7.32	1.43	1.38
36	1	2610	G	C6-N1	-7.32	1.34	1.39
36	1	2689	A	N3-C4	-7.32	1.30	1.34
36	1	2768	U	N1-C2	-7.32	1.31	1.38
85	5	2610	G	C5-C6	-7.32	1.35	1.42
85	5	634	C	N3-C4	-7.31	1.28	1.33
85	5	2946	A	N9-C4	-7.31	1.33	1.37
36	1	1171	G	N7-C5	-7.31	1.34	1.39
36	1	1469	C	N1-C6	-7.31	1.32	1.37
36	1	3172	A	C5-C4	-7.31	1.33	1.38
85	5	1357	G	N1-C2	-7.31	1.31	1.37
85	5	1581	C	C2-N3	7.31	1.41	1.35
85	5	2177	G	N3-C4	-7.31	1.30	1.35
85	5	2351	U	N1-C2	7.31	1.45	1.38
85	5	2370	G	C5-C4	-7.31	1.33	1.38
38	8	21	C	N1-C6	-7.31	1.32	1.37
53	m7	21	TYR	CD2-CE2	-7.31	1.28	1.39
36	1	2876	C	N1-C2	-7.31	1.32	1.40
79	Q3	57	CYS	CB-SG	-7.31	1.69	1.82
85	5	2772	C	N1-C6	7.31	1.41	1.37
85	5	3141	A	N3-C4	-7.31	1.30	1.34
85	5	3362	A	N9-C4	-7.31	1.33	1.37
80	6	579	A	N7-C5	7.31	1.43	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	1213	G	C6-O6	7.31	1.30	1.24
85	5	592	A	C5-C6	-7.31	1.34	1.41
85	5	830	A	N3-C4	-7.31	1.30	1.34
85	5	1161	G	N9-C8	-7.31	1.32	1.37
85	5	1198	C	N3-C4	-7.31	1.28	1.33
36	1	2395	G	N7-C5	-7.31	1.34	1.39
36	1	2920	U	C2-N3	-7.31	1.32	1.37
36	1	2945	G	N7-C5	-7.31	1.34	1.39
36	1	1402	C	N1-C6	-7.30	1.32	1.37
36	1	1796	G	C5-C6	-7.30	1.35	1.42
36	1	3309	G	N7-C5	-7.30	1.34	1.39
85	5	672	A	C6-N1	-7.30	1.30	1.35
85	5	1542	G	N9-C4	-7.30	1.32	1.38
85	5	2140	U	N3-C4	-7.30	1.31	1.38
85	5	2276	G	C6-N1	-7.30	1.34	1.39
85	5	2411	U	C2-N3	-7.30	1.32	1.37
85	5	2726	C	N1-C2	-7.30	1.32	1.40
85	5	2751	G	N9-C8	7.30	1.43	1.37
85	5	3056	U	N3-C4	-7.30	1.31	1.38
38	8	80	A	N9-C8	7.30	1.43	1.37
36	1	2427	U	C4-O4	-7.30	1.17	1.23
36	1	96	G	N9-C4	-7.30	1.32	1.38
36	1	3275	U	P-O5'	7.30	1.67	1.59
85	5	396	A	N9-C4	-7.30	1.33	1.37
85	5	412	G	C6-N1	-7.30	1.34	1.39
80	6	1744	A	N3-C4	-7.30	1.30	1.34
38	8	80	A	N7-C5	7.30	1.43	1.39
37	3	110	G	N9-C8	-7.30	1.32	1.37
85	5	2138	A	N9-C8	-7.29	1.31	1.37
36	1	162	G	C6-N1	7.29	1.44	1.39
36	1	2617	U	N1-C6	-7.29	1.31	1.38
85	5	747	A	N9-C4	-7.29	1.33	1.37
85	5	1131	G	N1-C2	7.29	1.43	1.37
37	7	42	A	N7-C5	-7.29	1.34	1.39
85	5	290	G	N9-C8	-7.29	1.32	1.37
85	5	1115	G	C6-N1	-7.29	1.34	1.39
85	5	2728	G	C6-N1	-7.29	1.34	1.39
85	5	2939	G	N1-C2	-7.29	1.31	1.37
36	1	1427	U	N1-C2	-7.29	1.31	1.38
80	6	64	U	C2-N3	-7.29	1.32	1.37
36	1	2982	A	C5-C4	-7.29	1.33	1.38
85	5	953	G	N1-C2	-7.29	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1340	G	C5-C4	-7.29	1.33	1.38
36	1	79	U	C2-N3	-7.29	1.32	1.37
1	2	1713	A	N9-C4	-7.29	1.33	1.37
36	1	2643	A	C5-C6	-7.29	1.34	1.41
85	5	281	G	N9-C4	-7.29	1.32	1.38
85	5	1099	A	N9-C4	-7.29	1.33	1.37
1	2	93	A	N3-C4	-7.28	1.30	1.34
85	5	1177	G	C5-C4	-7.28	1.33	1.38
85	5	2358	A	C5-C4	-7.28	1.33	1.38
85	5	2812	C	C4-N4	-7.28	1.27	1.33
37	7	77	G	N9-C8	-7.28	1.32	1.37
36	1	1370	G	N3-C4	-7.28	1.30	1.35
36	1	1654	A	N7-C5	-7.28	1.34	1.39
85	5	909	G	N9-C4	-7.28	1.32	1.38
80	6	427	C	N3-C4	-7.28	1.28	1.33
85	5	23	A	C5-C6	-7.28	1.34	1.41
85	5	974	G	N3-C4	-7.28	1.30	1.35
85	5	2372	A	N9-C4	7.28	1.42	1.37
36	1	2861	U	C2-N3	-7.28	1.32	1.37
85	5	363	G	C5-C6	-7.28	1.35	1.42
36	1	100	A	C5-C6	-7.28	1.34	1.41
36	1	437	G	C5-C6	7.28	1.49	1.42
85	5	82	C	N1-C2	-7.28	1.32	1.40
85	5	1576	G	N3-C4	7.28	1.40	1.35
36	1	1887	A	N9-C4	-7.28	1.33	1.37
36	1	2661	G	N3-C4	-7.28	1.30	1.35
85	5	2369	G	C2-N2	-7.28	1.27	1.34
85	5	423	A	C5-C6	-7.27	1.34	1.41
80	6	119	A	C6-N1	-7.27	1.30	1.35
85	5	650	C	N3-C4	-7.27	1.28	1.33
85	5	911	C	N1-C6	-7.27	1.32	1.37
85	5	3048	A	C6-N1	-7.27	1.30	1.35
36	1	925	A	N3-C4	-7.27	1.30	1.34
80	6	1025	A	N3-C4	-7.27	1.30	1.34
62	n6	127	GLU	CB-CG	7.27	1.66	1.52
85	5	154	U	N1-C2	-7.27	1.32	1.38
85	5	432	G	N9-C8	-7.27	1.32	1.37
85	5	1201	C	N3-C4	7.27	1.39	1.33
36	1	3011	A	N3-C4	-7.27	1.30	1.34
85	5	510	G	C6-N1	-7.27	1.34	1.39
85	5	2643	A	N3-C4	-7.27	1.30	1.34
36	1	2187	G	N3-C4	-7.26	1.30	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1126	G	N3-C4	-7.26	1.30	1.35
47	m0	8	CYS	CB-SG	-7.26	1.69	1.82
36	1	378	A	N9-C4	-7.26	1.33	1.37
85	5	1349	G	N7-C5	7.26	1.43	1.39
85	5	2627	C	N3-C4	-7.26	1.28	1.33
36	1	2377	G	N3-C4	-7.26	1.30	1.35
36	1	2395	G	N9-C8	-7.26	1.32	1.37
80	6	607	G	C6-N1	-7.26	1.34	1.39
85	5	2711	C	N1-C6	-7.26	1.32	1.37
36	1	1079	A	N3-C4	-7.25	1.30	1.34
80	6	1081	A	N9-C4	7.25	1.42	1.37
85	5	1330	A	C6-N1	-7.25	1.30	1.35
1	2	934	A	N9-C4	-7.25	1.33	1.37
1	2	1064	A	N9-C4	7.25	1.42	1.37
36	1	645	A	N1-C2	-7.25	1.27	1.34
36	1	798	G	C6-N1	-7.25	1.34	1.39
36	1	2231	C	N1-C6	-7.25	1.32	1.37
36	1	2689	A	C6-N1	-7.25	1.30	1.35
85	5	1408	G	N3-C4	-7.25	1.30	1.35
85	5	2828	G	C5-C6	-7.25	1.35	1.42
80	6	1127	G	N9-C4	-7.25	1.32	1.38
85	5	2697	A	N7-C5	-7.25	1.34	1.39
36	1	40	A	C8-N7	-7.25	1.26	1.31
85	5	920	A	C5-C6	-7.25	1.34	1.41
85	5	1850	A	C5-C4	-7.25	1.33	1.38
36	1	2858	U	N1-C6	-7.25	1.31	1.38
80	6	1672	G	C8-N7	7.25	1.35	1.30
36	1	880	G	N9-C8	-7.25	1.32	1.37
36	1	1476	G	N9-C8	-7.25	1.32	1.37
36	1	3243	A	N7-C5	-7.25	1.34	1.39
80	6	390	G	N9-C4	-7.25	1.32	1.38
80	6	926	A	N9-C4	-7.25	1.33	1.37
36	1	710	A	C5-C6	-7.24	1.34	1.41
36	1	2323	G	C6-N1	-7.24	1.34	1.39
36	1	2888	U	C2-N3	-7.24	1.32	1.37
85	5	436	A	C5-C6	7.24	1.47	1.41
85	5	1938	U	N1-C2	-7.24	1.32	1.38
85	5	890	C	N1-C6	-7.24	1.32	1.37
36	1	1552	G	N7-C5	-7.24	1.34	1.39
36	1	610	G	N7-C5	-7.24	1.34	1.39
85	5	2404	A	N7-C5	7.24	1.43	1.39
36	1	1004	U	C2-O2	-7.24	1.15	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1467	A	C6-N1	-7.24	1.30	1.35
36	1	899	U	C2-N3	-7.23	1.32	1.37
85	5	2702	A	C6-N1	-7.23	1.30	1.35
36	1	2629	U	N1-C2	-7.23	1.32	1.38
80	6	678	A	N9-C4	7.23	1.42	1.37
80	6	1672	G	N9-C4	-7.23	1.32	1.38
36	1	1318	A	C6-N1	-7.23	1.30	1.35
85	5	743	C	N1-C6	-7.23	1.32	1.37
85	5	867	G	C5-C6	-7.23	1.35	1.42
85	5	99	A	C5-C6	-7.23	1.34	1.41
85	5	1119	C	N1-C6	-7.23	1.32	1.37
85	5	1581	C	N3-C4	7.23	1.39	1.33
79	Q3	8	VAL	CB-CG2	-7.23	1.37	1.52
85	5	222	A	N9-C4	-7.23	1.33	1.37
85	5	1377	G	C5-C6	-7.23	1.35	1.42
85	5	2656	A	C5-C6	-7.23	1.34	1.41
36	1	957	C	N1-C2	-7.23	1.32	1.40
36	1	2277	C	N1-C6	-7.23	1.32	1.37
1	2	780	G	N3-C4	-7.22	1.30	1.35
36	1	775	A	C5-C6	-7.22	1.34	1.41
36	1	1140	G	C8-N7	-7.22	1.26	1.30
85	5	1006	A	N3-C4	-7.22	1.30	1.34
37	7	11	A	N3-C4	-7.22	1.30	1.34
1	2	434	G	N9-C8	-7.22	1.32	1.37
36	1	1897	G	C5-C4	-7.22	1.33	1.38
36	1	2894	C	N1-C6	-7.22	1.32	1.37
85	5	530	G	C5-C4	-7.22	1.33	1.38
85	5	1468	A	N3-C4	-7.22	1.30	1.34
80	6	978	A	N3-C4	-7.22	1.30	1.34
85	5	3173	G	N3-C4	-7.22	1.30	1.35
36	1	1406	A	N7-C5	-7.22	1.34	1.39
38	4	20	U	N1-C2	-7.22	1.32	1.38
85	5	189	G	N9-C4	-7.22	1.32	1.38
85	5	1179	A	N3-C4	-7.22	1.30	1.34
85	5	2160	G	C5-C4	-7.22	1.33	1.38
85	5	2879	C	N1-C6	-7.22	1.32	1.37
36	1	3086	A	C6-N1	-7.22	1.30	1.35
37	3	91	G	N7-C5	-7.22	1.34	1.39
85	5	1469	C	N1-C6	-7.22	1.32	1.37
38	8	85	G	C5-C4	7.22	1.43	1.38
36	1	1884	A	N3-C4	-7.21	1.30	1.34
36	1	2697	A	N7-C5	-7.21	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	979	U	C2-N3	7.21	1.42	1.37
85	5	2296	A	C6-N6	-7.21	1.28	1.33
41	14	120	TYR	CD2-CE2	-7.21	1.28	1.39
36	1	71	A	N9-C4	-7.21	1.33	1.37
36	1	2356	A	N9-C8	-7.21	1.31	1.37
36	1	3361	G	N1-C2	-7.21	1.31	1.37
36	1	63	A	C5-C6	-7.21	1.34	1.41
85	5	436	A	C5-C4	7.21	1.43	1.38
85	5	917	A	N7-C5	-7.21	1.34	1.39
85	5	1153	A	C5-C4	-7.21	1.33	1.38
85	5	2933	A	N1-C2	-7.21	1.27	1.34
85	5	2938	G	N7-C5	-7.21	1.34	1.39
36	1	1326	A	N3-C4	-7.21	1.30	1.34
85	5	1309	U	C2-N3	-7.21	1.32	1.37
85	5	1927	G	N7-C5	-7.21	1.34	1.39
36	1	775	A	N7-C5	-7.21	1.34	1.39
36	1	1440	G	N9-C8	-7.21	1.32	1.37
36	1	3307	A	N7-C5	-7.21	1.34	1.39
85	5	425	G	N9-C4	-7.21	1.32	1.38
36	1	1165	A	C6-N1	-7.21	1.30	1.35
36	1	2394	G	N1-C2	-7.21	1.31	1.37
85	5	1399	A	C5-C6	-7.21	1.34	1.41
85	5	2100	A	N9-C4	7.21	1.42	1.37
36	1	2951	G	N9-C8	-7.21	1.32	1.37
36	1	656	A	C5-C4	-7.20	1.33	1.38
85	5	1032	C	N1-C6	7.20	1.41	1.37
85	5	2895	G	C6-N1	-7.20	1.34	1.39
80	6	310	C	N1-C6	-7.20	1.32	1.37
85	5	1401	A	N9-C4	-7.20	1.33	1.37
85	5	3006	A	N9-C4	-7.20	1.33	1.37
36	1	225	C	N1-C6	-7.20	1.32	1.37
36	1	1887	A	N9-C8	-7.20	1.31	1.37
85	5	3137	C	N1-C6	-7.20	1.32	1.37
85	5	3369	G	N3-C4	-7.20	1.30	1.35
63	n7	99	GLU	CB-CG	7.20	1.65	1.52
36	1	79	U	N1-C2	-7.20	1.32	1.38
36	1	3106	A	C5-C6	-7.20	1.34	1.41
85	5	1373	A	C5-C4	-7.20	1.33	1.38
85	5	1541	G	C6-N1	7.20	1.44	1.39
85	5	2910	A	N3-C4	-7.20	1.30	1.34
36	1	1195	A	C5-C4	-7.20	1.33	1.38
36	1	2636	A	C5-C4	-7.20	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	678	G	N3-C4	-7.20	1.30	1.35
36	1	3091	A	N3-C4	-7.20	1.30	1.34
85	5	3051	U	C4-O4	-7.20	1.17	1.23
80	6	39	A	N3-C4	-7.19	1.30	1.34
80	6	1147	A	N7-C5	-7.19	1.34	1.39
85	5	41	G	C6-N1	-7.19	1.34	1.39
85	5	830	A	N9-C4	-7.19	1.33	1.37
85	5	3052	G	N1-C2	-7.19	1.31	1.37
85	5	3302	U	N1-C2	-7.19	1.32	1.38
69	o3	81	VAL	CB-CG2	-7.19	1.37	1.52
85	5	2617	U	N1-C2	-7.19	1.32	1.38
85	5	2895	G	N7-C5	-7.19	1.34	1.39
85	5	3081	C	N1-C6	-7.19	1.32	1.37
36	1	3098	G	N3-C4	-7.19	1.30	1.35
36	1	2902	A	N7-C5	-7.19	1.34	1.39
36	1	2960	C	C2-N3	-7.19	1.29	1.35
85	5	1874	A	C6-N1	-7.18	1.30	1.35
38	8	72	A	N9-C4	-7.18	1.33	1.37
36	1	274	G	N9-C8	-7.18	1.32	1.37
36	1	1178	G	N1-C2	-7.18	1.32	1.37
36	1	1636	U	N1-C2	-7.18	1.32	1.38
36	1	1754	G	P-OP1	7.18	1.61	1.49
36	1	2229	A	C5-C4	-7.18	1.33	1.38
80	6	894	U	C2-N3	-7.18	1.32	1.37
80	6	1214	U	C2-N3	7.18	1.42	1.37
80	6	1143	A	N9-C8	7.18	1.43	1.37
85	5	2107	A	N3-C4	-7.18	1.30	1.34
37	7	94	C	N3-C4	-7.18	1.28	1.33
36	1	50	U	N1-C6	-7.18	1.31	1.38
36	1	862	U	C2-O2	-7.18	1.15	1.22
85	5	2389	C	N1-C2	-7.18	1.32	1.40
36	1	2911	A	C6-N1	-7.18	1.30	1.35
85	5	1454	A	C5-C6	-7.18	1.34	1.41
85	5	2658	G	C5-C4	-7.18	1.33	1.38
36	1	3044	G	N9-C8	-7.17	1.32	1.37
85	5	2609	A	N9-C4	-7.17	1.33	1.37
1	2	1650	A	N9-C4	-7.17	1.33	1.37
85	5	2813	A	C5-C4	-7.17	1.33	1.38
36	1	958	C	N3-C4	-7.17	1.28	1.33
36	1	1465	A	C6-N1	-7.17	1.30	1.35
80	6	338	C	N1-C6	-7.17	1.32	1.37
85	5	2522	G	C6-N1	7.17	1.44	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	3273	A	C6-N1	-7.17	1.30	1.35
85	5	2259	A	N3-C4	-7.17	1.30	1.34
85	5	2816	G	N9-C8	-7.17	1.32	1.37
85	5	3176	G	C6-N1	-7.17	1.34	1.39
36	1	211	A	C5-C6	-7.17	1.34	1.41
36	1	661	G	N9-C8	-7.17	1.32	1.37
36	1	986	U	N1-C2	-7.17	1.32	1.38
36	1	2799	A	N9-C4	-7.17	1.33	1.37
80	6	1000	C	N1-C6	-7.17	1.32	1.37
85	5	1495	U	N1-C2	-7.17	1.32	1.38
85	5	2283	G	C5-C6	-7.17	1.35	1.42
85	5	2275	A	N9-C4	-7.17	1.33	1.37
36	1	596	C	N3-C4	-7.16	1.28	1.33
36	1	2192	C	N3-C4	-7.16	1.28	1.33
36	1	2853	A	N7-C5	-7.16	1.34	1.39
36	1	3337	G	N9-C4	-7.16	1.32	1.38
85	5	279	U	N1-C2	-7.16	1.32	1.38
85	5	899	U	C2-O2	-7.16	1.16	1.22
37	3	79	A	N9-C4	-7.16	1.33	1.37
85	5	2598	G	C5-C4	-7.16	1.33	1.38
85	5	2794	G	C6-O6	-7.16	1.17	1.24
36	1	1844	C	N1-C6	-7.16	1.32	1.37
1	2	1019	A	N3-C4	-7.16	1.30	1.34
36	1	2800	G	C5-C4	-7.16	1.33	1.38
85	5	1292	C	N1-C2	-7.16	1.32	1.40
85	5	2400	G	N9-C4	-7.16	1.32	1.38
85	5	2616	C	N1-C2	-7.16	1.32	1.40
36	1	797	U	N1-C6	-7.16	1.31	1.38
85	5	1507	G	C6-N1	-7.16	1.34	1.39
85	5	2280	A	C6-N1	-7.16	1.30	1.35
36	1	971	G	N7-C5	-7.16	1.34	1.39
36	1	1549	U	C2-N3	-7.16	1.32	1.37
80	6	385	A	C6-N1	-7.16	1.30	1.35
85	5	420	G	C5-C4	-7.16	1.33	1.38
85	5	1411	C	N1-C6	-7.16	1.32	1.37
85	5	1909	A	C6-N1	-7.16	1.30	1.35
85	5	2287	C	C2-N3	-7.16	1.30	1.35
1	2	1130	A	N7-C5	-7.15	1.34	1.39
85	5	1346	G	N3-C4	-7.15	1.30	1.35
85	5	1843	C	N1-C2	-7.15	1.32	1.40
68	O2	57	TYR	CE2-CZ	-7.15	1.29	1.38
85	5	2907	G	N9-C4	-7.15	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2	1729	A	C5-C4	-7.15	1.33	1.38
80	6	1649	G	N7-C5	7.15	1.43	1.39
85	5	786	A	N7-C5	-7.15	1.34	1.39
85	5	2825	C	C5-C6	-7.15	1.28	1.34
36	1	2322	C	N3-C4	-7.15	1.28	1.33
85	5	921	A	C5-C4	-7.15	1.33	1.38
85	5	3012	A	N7-C5	-7.15	1.34	1.39
38	4	6	U	C2-N3	-7.15	1.32	1.37
37	7	29	C	N1-C6	-7.15	1.32	1.37
80	6	1734	U	C2-O2	-7.14	1.16	1.22
85	5	16	A	N9-C4	-7.14	1.33	1.37
85	5	523	A	C5-C4	-7.14	1.33	1.38
85	5	2968	G	C2-N2	-7.14	1.27	1.34
39	12	143	GLU	CG-CD	7.14	1.62	1.51
36	1	2409	G	N9-C4	-7.14	1.32	1.38
85	5	805	G	N9-C8	-7.14	1.32	1.37
85	5	935	U	N1-C6	-7.14	1.31	1.38
36	1	862	U	N1-C2	-7.14	1.32	1.38
36	1	2389	C	N1-C6	-7.14	1.32	1.37
85	5	620	U	C2-N3	7.14	1.42	1.37
85	5	878	G	C6-N1	-7.14	1.34	1.39
85	5	1512	U	N1-C6	-7.14	1.31	1.38
36	1	377	A	N9-C4	7.14	1.42	1.37
36	1	2730	G	C2-N3	-7.14	1.27	1.32
36	1	2748	A	N3-C4	-7.14	1.30	1.34
85	5	412	G	N9-C8	-7.14	1.32	1.37
85	5	2767	U	C4-O4	7.14	1.29	1.23
36	1	1374	G	N9-C8	-7.13	1.32	1.37
36	1	1667	A	N9-C4	-7.13	1.33	1.37
36	1	2890	A	N3-C4	-7.13	1.30	1.34
38	4	52	A	N1-C2	-7.13	1.27	1.34
36	1	2363	A	N3-C4	-7.13	1.30	1.34
36	1	504	A	N9-C4	-7.13	1.33	1.37
36	1	883	A	C6-N1	-7.13	1.30	1.35
36	1	2831	G	N9-C8	-7.13	1.32	1.37
85	5	330	G	C8-N7	7.13	1.35	1.30
85	5	1205	A	C6-N1	-7.13	1.30	1.35
85	5	1867	A	N9-C4	-7.13	1.33	1.37
85	5	2123	G	N3-C4	-7.13	1.30	1.35
37	7	85	G	N7-C5	-7.13	1.34	1.39
36	1	68	C	N1-C2	-7.13	1.33	1.40
85	5	1122	U	N1-C2	-7.13	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	919	U	C2-N3	-7.13	1.32	1.37
38	4	7	U	N1-C6	-7.13	1.31	1.38
80	6	1762	A	N7-C5	-7.13	1.34	1.39
85	5	937	G	C2-N2	-7.13	1.27	1.34
85	5	2279	A	N3-C4	-7.13	1.30	1.34
85	5	2396	G	C6-N1	-7.13	1.34	1.39
85	5	2405	C	N1-C6	-7.13	1.32	1.37
36	1	79	U	N1-C6	-7.13	1.31	1.38
36	1	2347	U	N1-C2	-7.13	1.32	1.38
80	6	264	G	C5-C4	7.13	1.43	1.38
85	5	748	U	C5-C6	7.13	1.40	1.34
85	5	1085	A	N9-C4	-7.13	1.33	1.37
85	5	2813	A	C6-N1	-7.13	1.30	1.35
44	17	235	PHE	CD2-CE2	-7.13	1.25	1.39
36	1	1368	U	N1-C6	-7.12	1.31	1.38
69	O3	81	VAL	CB-CG2	-7.12	1.37	1.52
85	5	3031	G	C5-C4	-7.12	1.33	1.38
57	n1	67	VAL	CB-CG1	-7.12	1.37	1.52
36	1	204	A	N9-C4	-7.12	1.33	1.37
36	1	836	A	C5-C4	-7.12	1.33	1.38
36	1	868	C	N1-C6	-7.12	1.32	1.37
36	1	911	C	N1-C2	-7.12	1.33	1.40
36	1	2133	U	N1-C2	-7.12	1.32	1.38
36	1	2636	A	N1-C2	-7.12	1.27	1.34
80	6	1765	A	C5-C4	-7.12	1.33	1.38
85	5	355	A	N7-C5	-7.12	1.34	1.39
85	5	656	A	N7-C5	-7.12	1.34	1.39
85	5	2333	C	C4-C5	-7.12	1.37	1.43
36	1	2919	A	N3-C4	-7.12	1.30	1.34
80	6	129	U	N1-C2	7.12	1.45	1.38
80	6	794	U	N1-C6	7.12	1.44	1.38
36	1	2994	A	N3-C4	-7.12	1.30	1.34
85	5	1226	G	C6-N1	-7.12	1.34	1.39
85	5	1346	G	N7-C5	-7.12	1.34	1.39
85	5	1401	A	C5-C4	-7.12	1.33	1.38
1	2	1638	A	N9-C4	-7.12	1.33	1.37
80	6	987	G	N9-C8	7.12	1.42	1.37
85	5	2937	G	N7-C5	-7.12	1.34	1.39
85	5	3067	C	C2-N3	-7.12	1.30	1.35
36	1	3330	A	C5-C4	-7.12	1.33	1.38
80	6	119	A	N9-C4	-7.12	1.33	1.37
80	6	125	U	N1-C2	-7.12	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2882	U	N1-C2	-7.12	1.32	1.38
37	7	96	U	N1-C6	-7.12	1.31	1.38
36	1	1387	G	N1-C2	-7.11	1.32	1.37
85	5	2180	G	N9-C4	-7.11	1.32	1.38
85	5	2303	A	N9-C8	-7.11	1.32	1.37
85	5	3130	A	C5-C4	-7.11	1.33	1.38
36	1	1145	G	C2-N3	-7.11	1.27	1.32
36	1	2599	U	N1-C6	-7.11	1.31	1.38
36	1	3010	U	N3-C4	-7.11	1.32	1.38
85	5	3183	A	N7-C5	-7.11	1.34	1.39
36	1	591	G	N3-C4	-7.11	1.30	1.35
36	1	3132	C	N3-C4	-7.11	1.28	1.33
85	5	28	C	N3-C4	-7.11	1.28	1.33
36	1	317	A	N9-C4	-7.11	1.33	1.37
36	1	786	A	C5-C4	-7.11	1.33	1.38
85	5	3176	G	N3-C4	-7.11	1.30	1.35
36	1	712	G	N9-C4	-7.11	1.32	1.38
36	1	2413	A	C6-N1	-7.11	1.30	1.35
85	5	899	U	N1-C6	-7.11	1.31	1.38
36	1	494	G	N3-C4	7.10	1.40	1.35
36	1	2813	A	N3-C4	-7.10	1.30	1.34
85	5	415	G	C5-C4	-7.10	1.33	1.38
85	5	3025	C	N3-C4	-7.10	1.28	1.33
36	1	2341	A	N3-C4	-7.10	1.30	1.34
80	6	1108	G	N7-C5	-7.10	1.34	1.39
85	5	642	U	N3-C4	-7.10	1.32	1.38
36	1	114	A	N9-C4	-7.10	1.33	1.37
36	1	2886	U	C4-O4	7.10	1.29	1.23
36	1	633	C	N1-C6	-7.10	1.32	1.37
36	1	1352	A	N7-C5	7.10	1.43	1.39
85	5	50	U	N1-C2	-7.10	1.32	1.38
85	5	1375	G	N3-C4	-7.10	1.30	1.35
85	5	2958	A	C5-C6	-7.10	1.34	1.41
36	1	1535	A	C6-N1	-7.10	1.30	1.35
85	5	2172	A	N9-C4	-7.10	1.33	1.37
85	5	2871	G	C8-N7	7.10	1.35	1.30
1	2	780	G	C6-N1	-7.09	1.34	1.39
36	1	363	G	C6-O6	-7.09	1.17	1.24
80	6	789	A	N7-C5	-7.09	1.34	1.39
85	5	1162	U	N1-C2	-7.09	1.32	1.38
85	5	2335	G	N3-C4	-7.09	1.30	1.35
85	5	2352	A	C5-C4	-7.09	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	884	A	N9-C8	-7.09	1.32	1.37
36	1	2363	A	C6-N1	-7.09	1.30	1.35
36	1	3277	U	C4-O4	7.09	1.29	1.23
36	1	96	G	C5-C6	-7.09	1.35	1.42
36	1	2209	U	N3-C4	7.09	1.44	1.38
70	O4	47	CYS	CB-SG	-7.09	1.70	1.82
85	5	2129	U	N3-C4	-7.09	1.32	1.38
85	5	3390	G	N7-C5	-7.09	1.34	1.39
36	1	362	U	N1-C6	-7.09	1.31	1.38
36	1	2214	A	C6-N1	-7.09	1.30	1.35
37	3	79	A	N3-C4	-7.09	1.30	1.34
39	L2	133	TYR	CD2-CE2	-7.09	1.28	1.39
80	6	54	C	C5-C6	7.09	1.40	1.34
85	5	343	U	C2-N3	-7.09	1.32	1.37
40	l3	114	VAL	CB-CG1	-7.09	1.38	1.52
36	1	858	A	N3-C4	-7.09	1.30	1.34
36	1	2919	A	C5-C4	-7.09	1.33	1.38
85	5	2134	G	C8-N7	-7.09	1.26	1.30
36	1	765	C	N1-C2	7.09	1.47	1.40
36	1	846	A	N9-C4	-7.09	1.33	1.37
36	1	2721	A	N3-C4	-7.09	1.30	1.34
85	5	810	A	C6-N6	-7.09	1.28	1.33
85	5	2847	A	C5-C4	-7.09	1.33	1.38
37	7	121	U	C2-N3	7.09	1.42	1.37
85	5	1919	G	C5-C6	-7.08	1.35	1.42
36	1	1112	A	N9-C4	-7.08	1.33	1.37
36	1	1135	A	C6-N1	-7.08	1.30	1.35
36	1	2689	A	N7-C5	-7.08	1.35	1.39
85	5	2861	U	P-OP1	7.08	1.60	1.49
80	6	796	A	N3-C4	-7.08	1.30	1.34
85	5	2973	G	C2-N3	-7.08	1.27	1.32
85	5	3139	A	C6-N1	-7.08	1.30	1.35
85	5	3223	A	C5-C4	-7.08	1.33	1.38
36	1	928	C	C2-N3	-7.08	1.30	1.35
85	5	3101	G	C5-C4	-7.08	1.33	1.38
36	1	367	A	N3-C4	-7.08	1.30	1.34
36	1	2157	G	N9-C8	-7.08	1.32	1.37
36	1	1470	U	N1-C6	-7.08	1.31	1.38
36	1	2615	G	C6-N1	-7.08	1.34	1.39
85	5	1180	A	C6-N1	-7.08	1.30	1.35
85	5	2698	G	C5-C4	-7.08	1.33	1.38
36	1	649	A	C6-N6	-7.08	1.28	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	3285	C	N1-C6	7.08	1.41	1.37
80	6	1100	G	N7-C5	-7.08	1.35	1.39
80	6	1735	U	C2-N3	-7.08	1.32	1.37
36	1	666	A	C5-C4	-7.07	1.33	1.38
80	6	9	U	N1-C2	-7.07	1.32	1.38
85	5	1205	A	N3-C4	-7.07	1.30	1.34
85	5	1444	G	C6-N1	7.07	1.44	1.39
36	1	368	G	C8-N7	-7.07	1.26	1.30
36	1	639	G	P-OP1	-7.07	1.36	1.49
36	1	808	A	N3-C4	-7.07	1.30	1.34
36	1	2656	A	N3-C4	-7.07	1.30	1.34
85	5	2930	A	C5-C4	-7.07	1.33	1.38
85	5	854	G	N9-C8	-7.07	1.32	1.37
85	5	2132	C	N3-C4	-7.07	1.29	1.33
36	1	51	A	C5-C4	-7.07	1.33	1.38
36	1	962	A	C5-C6	-7.07	1.34	1.41
36	1	3102	G	C6-N1	-7.07	1.34	1.39
36	1	3188	G	N3-C4	-7.07	1.30	1.35
36	1	2289	U	N3-C4	-7.07	1.32	1.38
36	1	3005	A	C5-C6	-7.07	1.34	1.41
36	1	3042	U	N1-C2	-7.07	1.32	1.38
36	1	3094	A	C5-C6	-7.07	1.34	1.41
80	6	997	G	N3-C4	-7.07	1.30	1.35
36	1	800	G	N3-C4	-7.06	1.30	1.35
80	6	997	G	C6-N1	-7.06	1.34	1.39
85	5	1456	A	N9-C4	-7.06	1.33	1.37
85	5	1673	G	N7-C5	-7.06	1.35	1.39
85	5	3213	A	C6-N1	-7.06	1.30	1.35
36	1	636	C	C4-C5	-7.06	1.37	1.43
36	1	2317	A	C5-C4	-7.06	1.33	1.38
85	5	98	G	N1-C2	-7.06	1.32	1.37
85	5	2130	G	N3-C4	-7.06	1.30	1.35
85	5	101	G	N7-C5	-7.06	1.35	1.39
36	1	433	A	N9-C8	-7.06	1.32	1.37
36	1	661	G	N7-C5	-7.06	1.35	1.39
36	1	2232	A	N7-C5	-7.06	1.35	1.39
36	1	3310	A	C5-C6	-7.06	1.34	1.41
85	5	1429	G	C6-O6	-7.06	1.17	1.24
80	6	1734	U	C2-N3	-7.06	1.32	1.37
85	5	2804	A	C6-N1	-7.06	1.30	1.35
1	2	73	U	N1-C2	7.05	1.44	1.38
36	1	725	G	C5-C6	-7.05	1.35	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2969	A	N7-C5	-7.05	1.35	1.39
39	L2	82	VAL	CB-CG1	-7.05	1.38	1.52
85	5	498	A	C6-N1	-7.05	1.30	1.35
85	5	1070	U	C2-N3	-7.05	1.32	1.37
85	5	2128	C	N1-C6	-7.05	1.32	1.37
85	5	2348	A	N9-C8	-7.05	1.32	1.37
85	5	2882	U	C2-N3	-7.05	1.32	1.37
36	1	887	G	N9-C8	-7.05	1.32	1.37
36	1	1173	U	N1-C6	-7.05	1.31	1.38
85	5	572	A	N9-C4	-7.05	1.33	1.37
85	5	2995	A	N3-C4	-7.05	1.30	1.34
36	1	1444	G	C6-N1	-7.05	1.34	1.39
85	5	2432	A	N3-C4	-7.05	1.30	1.34
85	5	2958	A	C5-C4	-7.05	1.33	1.38
36	1	440	A	C5-C6	7.05	1.47	1.41
80	6	1226	A	N9-C4	7.05	1.42	1.37
85	5	922	U	C2-N3	-7.05	1.32	1.37
85	5	1057	A	C6-N1	-7.05	1.30	1.35
85	5	1189	C	N3-C4	-7.05	1.29	1.33
50	m4	91	CYS	CB-SG	-7.05	1.70	1.82
36	1	1346	G	C6-N1	-7.05	1.34	1.39
36	1	2817	A	N1-C2	-7.05	1.28	1.34
36	1	3330	A	N9-C4	7.05	1.42	1.37
80	6	462	G	N9-C4	-7.05	1.32	1.38
85	5	1101	G	N9-C8	-7.05	1.32	1.37
36	1	417	A	C5-C6	-7.05	1.34	1.41
80	6	616	G	N7-C5	-7.05	1.35	1.39
85	5	1316	C	C2-O2	-7.05	1.18	1.24
85	5	1406	A	C5-C6	-7.05	1.34	1.41
85	5	1411	C	N1-C2	-7.05	1.33	1.40
1	2	445	A	N9-C4	7.04	1.42	1.37
36	1	1335	C	N1-C6	-7.04	1.32	1.37
85	5	2977	G	N7-C5	-7.04	1.35	1.39
85	5	3085	G	N3-C4	-7.04	1.30	1.35
1	2	1633	U	C2-N3	-7.04	1.32	1.37
36	1	633	C	C2-N3	-7.04	1.30	1.35
36	1	683	U	N1-C2	-7.04	1.32	1.38
36	1	1395	G	C5-C6	-7.04	1.35	1.42
80	6	1012	U	C2-N3	-7.04	1.32	1.37
85	5	3010	U	C2-O2	-7.04	1.16	1.22
85	5	1910	A	N7-C5	-7.04	1.35	1.39
85	5	3136	G	C2-N2	-7.04	1.27	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
59	n3	4	ASN	CB-CG	7.04	1.67	1.51
36	1	1198	C	N3-C4	-7.04	1.29	1.33
36	1	2924	U	N1-C2	-7.04	1.32	1.38
80	6	565	C	N1-C6	-7.04	1.32	1.37
80	6	1113	A	C6-N1	-7.04	1.30	1.35
52	m6	16	VAL	CB-CG1	-7.04	1.38	1.52
1	2	553	G	N7-C5	-7.04	1.35	1.39
36	1	1387	G	C5-C4	-7.04	1.33	1.38
85	5	509	U	N1-C6	-7.04	1.31	1.38
85	5	533	A	N9-C4	-7.04	1.33	1.37
85	5	586	C	N3-C4	-7.04	1.29	1.33
85	5	1413	G	N9-C8	7.04	1.42	1.37
85	5	2876	C	C2-N3	-7.04	1.30	1.35
36	1	54	C	N1-C6	-7.03	1.32	1.37
80	6	1765	A	N9-C8	-7.03	1.32	1.37
85	5	2950	G	C5-C6	-7.03	1.35	1.42
85	5	1255	C	P-OP2	7.03	1.60	1.49
36	1	38	U	C2-N3	-7.03	1.32	1.37
36	1	637	C	C4-N4	-7.03	1.27	1.33
36	1	641	C	C2-O2	-7.03	1.18	1.24
36	1	1741	A	N9-C4	-7.03	1.33	1.37
36	1	1187	C	N1-C2	-7.03	1.33	1.40
85	5	1153	A	N9-C8	-7.03	1.32	1.37
85	5	1202	A	N7-C5	-7.03	1.35	1.39
85	5	2964	G	N1-C2	-7.03	1.32	1.37
36	1	77	A	N3-C4	-7.03	1.30	1.34
36	1	655	C	C4-C5	-7.03	1.37	1.43
36	1	3114	A	N3-C4	-7.03	1.30	1.34
1	2	1003	A	C6-N1	-7.02	1.30	1.35
36	1	1429	G	C5-C4	-7.02	1.33	1.38
80	6	1128	C	N3-C4	-7.02	1.29	1.33
85	5	3058	U	N1-C2	-7.02	1.32	1.38
69	o3	8	TYR	CD1-CE1	-7.02	1.28	1.39
1	2	1121	A	N3-C4	-7.02	1.30	1.34
85	5	2897	A	N9-C8	-7.02	1.32	1.37
36	1	829	U	N1-C2	-7.02	1.32	1.38
38	4	4	C	C2-O2	-7.02	1.18	1.24
85	5	2291	A	C6-N1	-7.02	1.30	1.35
85	5	2920	U	C2-O2	-7.02	1.16	1.22
53	m7	21	TYR	CD1-CE1	-7.02	1.28	1.39
36	1	284	A	C6-N1	-7.02	1.30	1.35
36	1	1606	U	N1-C2	-7.02	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2248	C	N1-C6	-7.02	1.32	1.37
85	5	396	A	C6-N1	-7.02	1.30	1.35
85	5	994	G	C6-N1	-7.02	1.34	1.39
85	5	1867	A	C5-C6	-7.02	1.34	1.41
36	1	1309	U	N1-C6	-7.01	1.31	1.38
85	5	917	A	C5-C6	-7.01	1.34	1.41
37	7	117	A	N9-C4	-7.01	1.33	1.37
36	1	2289	U	N1-C2	-7.01	1.32	1.38
36	1	2806	U	C2-O2	-7.01	1.16	1.22
85	5	2424	A	C6-N1	-7.01	1.30	1.35
41	L4	71	VAL	CB-CG2	-7.01	1.38	1.52
85	5	2140	U	C2-N3	-7.01	1.32	1.37
85	5	2340	U	C4-C5	-7.01	1.37	1.43
36	1	43	A	C5-C6	-7.01	1.34	1.41
36	1	1380	G	N3-C4	-7.01	1.30	1.35
36	1	3273	A	N3-C4	-7.01	1.30	1.34
36	1	3276	G	C6-N1	7.01	1.44	1.39
80	6	1102	G	N9-C8	-7.01	1.32	1.37
85	5	652	G	C5-C4	-7.01	1.33	1.38
85	5	2273	G	C5-C6	7.01	1.49	1.42
85	5	999	G	C8-N7	-7.00	1.26	1.30
85	5	2420	C	C4-C5	-7.00	1.37	1.43
85	5	3107	U	C4-C5	-7.00	1.37	1.43
37	7	64	A	N3-C4	7.00	1.39	1.34
36	1	2525	G	C5-C4	-7.00	1.33	1.38
85	5	682	U	N1-C2	-7.00	1.32	1.38
85	5	1476	G	C8-N7	-7.00	1.26	1.30
85	5	2369	G	C6-O6	-7.00	1.17	1.24
85	5	3182	G	C5-C4	-7.00	1.33	1.38
85	5	3379	C	P-OP2	7.00	1.60	1.49
37	3	82	G	N9-C8	-7.00	1.32	1.37
85	5	1389	G	N3-C4	-7.00	1.30	1.35
85	5	2948	C	N1-C6	-7.00	1.32	1.37
85	5	345	G	N3-C4	-7.00	1.30	1.35
36	1	2415	C	N3-C4	-7.00	1.29	1.33
37	3	72	A	N3-C4	-7.00	1.30	1.34
85	5	867	G	N7-C5	-7.00	1.35	1.39
36	1	1195	A	N3-C4	-7.00	1.30	1.34
36	1	1607	U	N1-C2	-7.00	1.32	1.38
85	5	325	A	C5-C4	-7.00	1.33	1.38
85	5	2811	A	C6-N1	-7.00	1.30	1.35
85	5	2843	U	C2-N3	-7.00	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	628	A	N3-C4	-7.00	1.30	1.34
85	5	3047	U	C2-N3	-7.00	1.32	1.37
36	1	827	A	N9-C4	-6.99	1.33	1.37
36	1	2811	A	N9-C4	-6.99	1.33	1.37
85	5	509	U	C2-N3	-6.99	1.32	1.37
36	1	1435	A	C6-N1	-6.99	1.30	1.35
36	1	2147	A	N3-C4	-6.99	1.30	1.34
36	1	2349	U	N3-C4	-6.99	1.32	1.38
36	1	2200	U	N1-C2	-6.99	1.32	1.38
80	6	1722	A	C6-N1	-6.99	1.30	1.35
85	5	1159	A	C5-C4	-6.99	1.33	1.38
85	5	3083	G	N3-C4	-6.99	1.30	1.35
85	5	98	G	N7-C5	-6.99	1.35	1.39
85	5	2856	G	N9-C8	-6.99	1.32	1.37
36	1	1379	G	N9-C4	-6.99	1.32	1.38
85	5	504	A	C6-N1	-6.99	1.30	1.35
85	5	802	C	N1-C6	-6.99	1.32	1.37
85	5	1881	A	C5-C4	-6.99	1.33	1.38
36	1	182	U	C2-N3	-6.98	1.32	1.37
36	1	2973	G	N9-C8	-6.98	1.32	1.37
85	5	333	G	N3-C4	-6.98	1.30	1.35
36	1	71	A	N9-C8	-6.98	1.32	1.37
36	1	792	G	N3-C4	-6.98	1.30	1.35
36	1	1142	G	N3-C4	-6.98	1.30	1.35
85	5	428	A	N9-C4	-6.98	1.33	1.37
1	2	1727	A	N3-C4	-6.98	1.30	1.34
36	1	1109	U	N1-C6	-6.98	1.31	1.38
36	1	1201	C	N3-C4	6.98	1.38	1.33
36	1	2608	G	N3-C4	-6.98	1.30	1.35
85	5	1489	A	N7-C5	-6.98	1.35	1.39
85	5	3246	G	N7-C5	-6.98	1.35	1.39
36	1	677	A	N3-C4	-6.98	1.30	1.34
36	1	986	U	C2-O2	-6.98	1.16	1.22
36	1	2615	G	C2-N3	-6.98	1.27	1.32
85	5	1149	G	C5-C4	6.98	1.43	1.38
37	7	6	C	N3-C4	-6.98	1.29	1.33
36	1	178	U	N1-C2	6.98	1.44	1.38
36	1	361	A	N3-C4	-6.98	1.30	1.34
36	1	603	A	N7-C5	6.98	1.43	1.39
36	1	1761	C	N1-C2	6.98	1.47	1.40
36	1	3205	G	C6-N1	-6.98	1.34	1.39
80	6	1775	U	C2-N3	-6.98	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	8	3	A	N7-C5	-6.98	1.35	1.39
36	1	90	C	N1-C6	-6.97	1.32	1.37
85	5	1066	G	C5-C4	-6.97	1.33	1.38
85	5	2401	A	N7-C5	6.97	1.43	1.39
36	1	128	G	N9-C8	-6.97	1.32	1.37
36	1	1441	G	N1-C2	-6.97	1.32	1.37
36	1	1486	G	C5-C4	-6.97	1.33	1.38
36	1	2186	U	C2-N3	-6.97	1.32	1.37
85	5	826	G	N3-C4	-6.97	1.30	1.35
85	5	1949	G	N3-C4	6.97	1.40	1.35
85	5	106	A	N9-C4	-6.97	1.33	1.37
85	5	1794	G	N7-C5	-6.97	1.35	1.39
36	1	955	U	C2-N3	-6.97	1.32	1.37
36	1	940	G	N9-C8	-6.97	1.32	1.37
36	1	3025	C	C2-N3	-6.97	1.30	1.35
36	1	3141	A	N7-C5	-6.97	1.35	1.39
85	5	1867	A	C6-N1	-6.97	1.30	1.35
85	5	391	A	C5-C4	-6.97	1.33	1.38
85	5	853	G	C6-N1	-6.97	1.34	1.39
85	5	999	G	C5-C6	-6.97	1.35	1.42
85	5	1598	G	N9-C4	-6.97	1.32	1.38
1	2	1640	U	C2-O2	6.96	1.28	1.22
36	1	66	A	C6-N1	-6.96	1.30	1.35
36	1	88	A	N9-C8	-6.96	1.32	1.37
85	5	91	G	C6-N1	-6.96	1.34	1.39
85	5	1159	A	N3-C4	-6.96	1.30	1.34
85	5	2604	U	N1-C2	-6.96	1.32	1.38
36	1	1134	G	N3-C4	-6.96	1.30	1.35
36	1	1927	G	N3-C4	-6.96	1.30	1.35
6	s4	60	GLU	CG-CD	6.96	1.62	1.51
36	1	1536	G	C5-C4	-6.96	1.33	1.38
85	5	1368	U	N1-C2	-6.96	1.32	1.38
85	5	2590	A	N7-C5	-6.96	1.35	1.39
36	1	2615	G	N3-C4	-6.96	1.30	1.35
85	5	2864	A	P-OP1	6.96	1.60	1.49
36	1	1809	A	N9-C4	-6.96	1.33	1.37
76	Q0	110	CYS	CB-SG	-6.96	1.70	1.82
80	6	719	U	C2-N3	6.96	1.42	1.37
80	6	1729	C	N1-C2	-6.96	1.33	1.40
85	5	1069	C	C2-N3	-6.96	1.30	1.35
85	5	1580	A	N9-C4	6.96	1.42	1.37
85	5	2107	A	N9-C4	-6.96	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	7	52	G	P-OP1	6.96	1.60	1.49
59	n3	19	VAL	CB-CG2	-6.96	1.38	1.52
85	5	2284	C	C2-O2	6.96	1.30	1.24
1	2	1637	G	C6-N1	-6.96	1.34	1.39
36	1	99	A	C5-C4	-6.96	1.33	1.38
36	1	1003	A	N3-C4	-6.96	1.30	1.34
85	5	49	A	C5-C4	-6.95	1.33	1.38
85	5	1401	A	N3-C4	-6.95	1.30	1.34
38	8	63	G	N9-C4	-6.95	1.32	1.38
36	1	1328	C	N1-C6	-6.95	1.32	1.37
36	1	1433	A	N9-C4	6.95	1.42	1.37
85	5	1450	G	C2-N3	-6.95	1.27	1.32
85	5	2620	G	N3-C4	-6.95	1.30	1.35
36	1	211	A	N7-C5	-6.95	1.35	1.39
36	1	2765	C	N1-C6	-6.95	1.32	1.37
37	3	95	A	N7-C5	-6.95	1.35	1.39
85	5	1844	C	N3-C4	-6.95	1.29	1.33
85	5	2249	G	N7-C5	-6.95	1.35	1.39
85	5	2309	A	N9-C8	-6.95	1.32	1.37
36	1	1009	A	N3-C4	-6.95	1.30	1.34
36	1	2280	A	C6-N1	-6.95	1.30	1.35
85	5	385	A	N3-C4	-6.95	1.30	1.34
85	5	2817	A	C5-C6	-6.95	1.34	1.41
85	5	3178	A	N7-C5	-6.95	1.35	1.39
36	1	796	U	N1-C6	-6.94	1.31	1.38
85	5	400	G	N7-C5	-6.94	1.35	1.39
36	1	359	U	C2-N3	-6.94	1.32	1.37
38	4	38	U	C2-N3	-6.94	1.32	1.37
85	5	103	G	N3-C4	-6.94	1.30	1.35
85	5	953	G	C2-N3	-6.94	1.27	1.32
85	5	2392	C	N3-C4	-6.94	1.29	1.33
85	5	2992	U	C2-N3	-6.94	1.32	1.37
37	7	5	G	N9-C8	-6.94	1.32	1.37
36	1	2918	G	N3-C4	-6.94	1.30	1.35
85	5	2569	A	N3-C4	6.94	1.39	1.34
85	5	794	U	N1-C6	-6.94	1.31	1.38
85	5	2850	G	N9-C4	-6.94	1.32	1.38
36	1	338	A	C6-N1	-6.94	1.30	1.35
36	1	594	U	N1-C6	-6.94	1.31	1.38
36	1	2714	G	N9-C4	-6.94	1.32	1.38
85	5	252	U	C2-N3	6.94	1.42	1.37
85	5	805	G	C6-N1	-6.94	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	3094	A	N9-C4	-6.94	1.33	1.37
36	1	1318	A	N3-C4	-6.94	1.30	1.34
36	1	1362	G	C5-C4	-6.94	1.33	1.38
36	1	1655	G	N9-C8	-6.94	1.32	1.37
80	6	1673	G	C5-C4	6.94	1.43	1.38
36	1	652	G	N1-C2	-6.93	1.32	1.37
36	1	1806	A	N9-C4	-6.93	1.33	1.37
80	6	709	C	N3-C4	6.93	1.38	1.33
85	5	699	A	N7-C5	-6.93	1.35	1.39
85	5	1492	G	C5-C6	-6.93	1.35	1.42
85	5	2915	U	N1-C6	-6.93	1.31	1.38
85	5	606	C	N1-C6	-6.93	1.32	1.37
85	5	1583	A	N3-C4	-6.93	1.30	1.34
85	5	2110	G	C6-N1	-6.93	1.34	1.39
80	6	465	G	N3-C4	-6.93	1.30	1.35
1	2	411	C	N1-C6	-6.93	1.32	1.37
36	1	797	U	N1-C2	-6.93	1.32	1.38
36	1	2377	G	N9-C8	-6.93	1.32	1.37
36	1	2766	U	N1-C6	-6.93	1.31	1.38
85	5	1637	A	N3-C4	-6.93	1.30	1.34
85	5	2982	A	N7-C5	-6.93	1.35	1.39
85	5	822	G	C5-C6	-6.93	1.35	1.42
36	1	102	C	N1-C2	-6.93	1.33	1.40
36	1	1408	G	N9-C8	-6.93	1.33	1.37
80	6	1750	A	N9-C4	-6.93	1.33	1.37
85	5	2982	A	N3-C4	-6.93	1.30	1.34
36	1	422	A	N3-C4	-6.92	1.30	1.34
36	1	1418	A	C5-C6	-6.92	1.34	1.41
36	1	3307	A	N3-C4	-6.92	1.30	1.34
85	5	55	G	N7-C5	-6.92	1.35	1.39
85	5	105	C	N1-C6	-6.92	1.32	1.37
85	5	283	G	C5-C4	-6.92	1.33	1.38
80	6	1139	A	C5-C4	-6.92	1.33	1.38
85	5	2379	U	N1-C6	-6.92	1.31	1.38
85	5	3275	U	C2-O2	6.92	1.28	1.22
85	5	1449	A	C5-C4	-6.92	1.33	1.38
85	5	1658	G	C5-C4	-6.92	1.33	1.38
71	O5	14	LYS	CD-CE	6.92	1.68	1.51
80	6	436	A	N7-C5	-6.92	1.35	1.39
80	6	1382	A	P-OP1	6.92	1.60	1.49
85	5	40	A	N3-C4	-6.92	1.30	1.34
85	5	907	G	C5-C6	-6.92	1.35	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	976	U	N1-C6	-6.92	1.31	1.38
85	5	1767	C	N1-C6	6.92	1.41	1.37
64	n8	5	PHE	CD2-CE2	-6.92	1.25	1.39
36	1	3030	G	C6-N1	-6.92	1.34	1.39
48	M1	52	TYR	CD2-CE2	-6.92	1.28	1.39
85	5	3138	U	N1-C6	-6.92	1.31	1.38
36	1	2232	A	N3-C4	-6.92	1.30	1.34
38	4	110	C	N1-C6	-6.92	1.33	1.37
85	5	2320	A	C6-N1	-6.92	1.30	1.35
38	4	4	C	N3-C4	-6.91	1.29	1.33
85	5	714	G	N9-C4	-6.91	1.32	1.38
85	5	1032	C	N3-C4	6.91	1.38	1.33
36	1	369	A	N7-C5	-6.91	1.35	1.39
36	1	1850	A	C6-N1	-6.91	1.30	1.35
53	M7	91	VAL	CB-CG1	-6.91	1.38	1.52
44	17	133	TYR	CD2-CE2	-6.91	1.28	1.39
36	1	827	A	N3-C4	-6.91	1.30	1.34
85	5	307	A	N3-C4	-6.91	1.30	1.34
36	1	1153	A	C6-N1	-6.91	1.30	1.35
36	1	2502	A	N7-C5	6.91	1.43	1.39
85	5	999	G	N3-C4	-6.91	1.30	1.35
36	1	2368	A	C6-N1	-6.91	1.30	1.35
36	1	614	C	C4-C5	-6.91	1.37	1.43
36	1	974	G	N1-C2	-6.91	1.32	1.37
36	1	2396	G	N9-C4	-6.91	1.32	1.38
80	6	332	U	C2-N3	-6.91	1.32	1.37
85	5	903	U	N3-C4	-6.91	1.32	1.38
85	5	1372	C	N1-C6	-6.91	1.33	1.37
50	m4	17	VAL	CB-CG2	-6.91	1.38	1.52
36	1	80	G	N9-C8	-6.90	1.33	1.37
36	1	882	A	N9-C8	-6.90	1.32	1.37
80	6	1599	C	C2-O2	6.90	1.30	1.24
36	1	1053	A	N9-C4	-6.90	1.33	1.37
36	1	2397	A	N7-C5	-6.90	1.35	1.39
38	4	4	C	C2-N3	-6.90	1.30	1.35
80	6	420	A	C5-C4	6.90	1.43	1.38
85	5	854	G	C6-N1	-6.90	1.34	1.39
80	6	1093	A	N9-C4	6.90	1.42	1.37
85	5	833	G	C5-C4	-6.90	1.33	1.38
85	5	1613	A	C5-C4	-6.90	1.33	1.38
85	5	2957	G	C8-N7	-6.90	1.26	1.30
85	5	3178	A	N3-C4	-6.90	1.30	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	662	U	C2-N3	-6.90	1.32	1.37
85	5	1884	A	C6-N1	-6.90	1.30	1.35
36	1	266	A	N3-C4	-6.90	1.30	1.34
36	1	2918	G	N9-C8	-6.90	1.33	1.37
80	6	1661	U	N1-C2	-6.90	1.32	1.38
36	1	3307	A	N9-C4	-6.90	1.33	1.37
36	1	1263	A	N9-C4	6.89	1.42	1.37
36	1	1340	G	N9-C8	-6.89	1.33	1.37
36	1	2316	G	N3-C4	-6.89	1.30	1.35
85	5	343	U	C2-O2	-6.89	1.16	1.22
85	5	2881	C	N1-C2	-6.89	1.33	1.40
85	5	3139	A	N9-C8	-6.89	1.32	1.37
36	1	711	A	N9-C4	-6.89	1.33	1.37
80	6	1648	A	N7-C5	-6.89	1.35	1.39
85	5	383	G	C5-C6	6.89	1.49	1.42
85	5	2955	U	N1-C2	-6.89	1.32	1.38
36	1	2240	G	C5-C4	-6.89	1.33	1.38
1	2	1115	A	N9-C4	-6.89	1.33	1.37
36	1	56	G	N3-C4	-6.89	1.30	1.35
36	1	1825	G	C5-C6	-6.89	1.35	1.42
48	M1	52	TYR	CD1-CE1	-6.89	1.29	1.39
80	6	1634	C	N1-C2	6.89	1.47	1.40
85	5	2273	G	C5-C4	6.89	1.43	1.38
85	5	2348	A	N3-C4	-6.89	1.30	1.34
36	1	2190	U	N1-C6	-6.89	1.31	1.38
85	5	1420	C	C2-N3	-6.89	1.30	1.35
85	5	2986	U	N1-C2	-6.89	1.32	1.38
36	1	2955	U	N1-C6	-6.89	1.31	1.38
85	5	2598	G	N3-C4	-6.89	1.30	1.35
36	1	1116	G	C6-N1	-6.88	1.34	1.39
36	1	621	A	N9-C8	6.88	1.43	1.37
36	1	665	A	C6-N6	-6.88	1.28	1.33
36	1	1438	U	N3-C4	-6.88	1.32	1.38
80	6	965	U	C2-N3	-6.88	1.32	1.37
80	6	1643	U	N1-C6	-6.88	1.31	1.38
85	5	49	A	N9-C4	-6.88	1.33	1.37
85	5	413	U	N1-C2	-6.88	1.32	1.38
85	5	936	A	N7-C5	-6.88	1.35	1.39
85	5	3225	C	C4-C5	-6.88	1.37	1.43
36	1	3005	A	N9-C4	-6.88	1.33	1.37
85	5	2394	G	C8-N7	-6.88	1.26	1.30
1	2	1096	A	N9-C4	-6.88	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	682	U	N3-C4	-6.88	1.32	1.38
85	5	942	U	C4-O4	6.88	1.29	1.23
85	5	1874	A	N3-C4	-6.88	1.30	1.34
85	5	3248	C	N1-C6	-6.88	1.33	1.37
38	8	125	U	N1-C6	6.88	1.44	1.38
36	1	39	A	C6-N1	-6.88	1.30	1.35
36	1	2427	U	N3-C4	-6.88	1.32	1.38
36	1	2943	G	N3-C4	-6.88	1.30	1.35
80	6	357	G	N9-C8	-6.88	1.33	1.37
85	5	847	A	N3-C4	-6.88	1.30	1.34
85	5	2356	A	C6-N6	-6.88	1.28	1.33
85	5	3369	G	C6-N1	-6.88	1.34	1.39
36	1	3273	A	C6-N1	-6.88	1.30	1.35
85	5	508	U	C2-N3	6.88	1.42	1.37
38	8	138	A	N9-C4	-6.88	1.33	1.37
36	1	951	A	N7-C5	-6.87	1.35	1.39
36	1	2504	U	C2-N3	6.87	1.42	1.37
36	1	3098	G	C6-N1	-6.87	1.34	1.39
36	1	3362	A	C5-C6	-6.87	1.34	1.41
85	5	27	C	N3-C4	-6.87	1.29	1.33
36	1	2342	U	N1-C2	-6.87	1.32	1.38
38	4	1	A	C5-C6	-6.87	1.34	1.41
85	5	569	A	C5-C4	-6.87	1.33	1.38
85	5	777	U	N3-C4	6.87	1.44	1.38
85	5	1910	A	C6-N1	-6.87	1.30	1.35
85	5	2995	A	C6-N1	-6.87	1.30	1.35
1	2	114	C	N1-C6	-6.87	1.33	1.37
36	1	313	A	N9-C4	-6.87	1.33	1.37
36	1	2853	A	C5-C4	-6.87	1.33	1.38
85	5	2755	C	C2-O2	-6.87	1.18	1.24
36	1	947	G	C6-N1	-6.87	1.34	1.39
36	1	1312	C	C4-C5	-6.87	1.37	1.43
36	1	2334	U	C2-N3	-6.87	1.32	1.37
36	1	2938	G	N9-C8	-6.87	1.33	1.37
36	1	2988	C	N1-C2	-6.87	1.33	1.40
85	5	1476	G	N3-C4	-6.87	1.30	1.35
85	5	3035	A	N3-C4	-6.87	1.30	1.34
36	1	1430	U	N1-C6	-6.86	1.31	1.38
85	5	1314	C	N3-C4	-6.86	1.29	1.33
39	12	175	VAL	CB-CG2	-6.86	1.38	1.52
85	5	28	C	C2-N3	-6.86	1.30	1.35
1	2	321	C	N1-C6	6.86	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	4	44	A	N7-C5	-6.86	1.35	1.39
85	5	282	G	N1-C2	-6.86	1.32	1.37
85	5	776	U	N3-C4	-6.86	1.32	1.38
85	5	995	U	N3-C4	-6.86	1.32	1.38
85	5	3200	G	N7-C5	-6.86	1.35	1.39
36	1	905	U	N1-C6	-6.86	1.31	1.38
85	5	834	U	N1-C2	-6.86	1.32	1.38
85	5	911	C	N1-C2	-6.86	1.33	1.40
36	1	1532	C	N1-C6	-6.86	1.33	1.37
36	1	2649	A	C6-N1	-6.86	1.30	1.35
85	5	622	A	N9-C4	-6.86	1.33	1.37
85	5	2743	A	C5-C4	-6.86	1.33	1.38
36	1	1428	A	C5-C6	-6.86	1.34	1.41
36	1	1888	U	C2-N3	-6.86	1.32	1.37
36	1	3014	U	C2-N3	-6.86	1.32	1.37
85	5	2364	G	N9-C8	-6.86	1.33	1.37
36	1	1394	A	C5-C6	-6.85	1.34	1.41
80	6	1800	A	N3-C4	6.85	1.39	1.34
85	5	296	A	N9-C4	-6.85	1.33	1.37
85	5	2304	C	N1-C2	-6.85	1.33	1.40
36	1	614	C	N1-C2	-6.85	1.33	1.40
36	1	2908	G	N7-C5	-6.85	1.35	1.39
85	5	1927	G	C5-C6	-6.85	1.35	1.42
85	5	3035	A	N9-C4	-6.85	1.33	1.37
36	1	48	A	N9-C8	-6.85	1.32	1.37
36	1	198	A	N7-C5	-6.85	1.35	1.39
36	1	727	G	N7-C5	-6.85	1.35	1.39
36	1	1425	U	N3-C4	-6.85	1.32	1.38
36	1	1667	A	N3-C4	-6.85	1.30	1.34
1	2	278	U	C2-N3	6.85	1.42	1.37
36	1	1145	G	N3-C4	-6.85	1.30	1.35
36	1	1305	U	N3-C4	-6.85	1.32	1.38
36	1	1355	A	C5-C6	6.85	1.47	1.41
80	6	845	G	N7-C5	6.85	1.43	1.39
80	6	1147	A	N3-C4	-6.85	1.30	1.34
80	6	1746	A	N3-C4	-6.85	1.30	1.34
85	5	1911	A	N3-C4	-6.85	1.30	1.34
85	5	1924	U	C4-O4	-6.85	1.18	1.23
1	2	1130	A	C5-C6	-6.85	1.34	1.41
36	1	98	G	N7-C5	-6.85	1.35	1.39
36	1	106	A	N9-C4	-6.85	1.33	1.37
36	1	804	C	N1-C6	-6.85	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	4	31	G	C5-C6	-6.85	1.35	1.42
85	5	2825	C	N1-C6	-6.85	1.33	1.37
37	7	45	A	C5-C4	-6.85	1.33	1.38
36	1	910	G	N7-C5	-6.85	1.35	1.39
36	1	1468	A	N7-C5	-6.85	1.35	1.39
36	1	2169	G	C2-N3	6.85	1.38	1.32
85	5	1184	A	N9-C8	-6.85	1.32	1.37
85	5	2147	A	C5-C6	-6.85	1.34	1.41
36	1	578	A	C6-N6	-6.84	1.28	1.33
85	5	2707	C	C5-C6	6.84	1.39	1.34
36	1	2323	G	N9-C8	-6.84	1.33	1.37
36	1	3191	G	N3-C4	-6.84	1.30	1.35
85	5	3132	C	C2-N3	-6.84	1.30	1.35
38	8	81	U	N1-C2	6.84	1.44	1.38
1	2	1792	G	N3-C4	6.84	1.40	1.35
36	1	915	A	C6-N1	-6.84	1.30	1.35
80	6	1275	A	N9-C4	-6.84	1.33	1.37
85	5	968	G	N9-C8	-6.84	1.33	1.37
85	5	2187	G	N3-C4	-6.84	1.30	1.35
36	1	2294	U	N1-C2	-6.84	1.32	1.38
36	1	2396	G	N9-C8	-6.84	1.33	1.37
85	5	2375	G	C6-O6	-6.84	1.18	1.24
85	5	3005	A	N9-C8	-6.84	1.32	1.37
36	1	934	G	C5-C6	-6.84	1.35	1.42
85	5	2551	U	C2-N3	-6.84	1.32	1.37
36	1	384	A	C6-N1	-6.84	1.30	1.35
36	1	2818	U	C4-C5	-6.84	1.37	1.43
85	5	869	G	C6-N1	-6.84	1.34	1.39
85	5	1374	G	C5-C6	-6.84	1.35	1.42
85	5	2831	G	N9-C8	-6.84	1.33	1.37
85	5	2234	G	N9-C4	-6.83	1.32	1.38
85	5	2328	U	C2-O2	-6.83	1.16	1.22
85	5	2938	G	N1-C2	-6.83	1.32	1.37
36	1	66	A	N7-C5	-6.83	1.35	1.39
85	5	2122	G	N9-C4	-6.83	1.32	1.38
36	1	2922	G	N9-C8	-6.83	1.33	1.37
38	4	72	A	N9-C4	-6.83	1.33	1.37
85	5	2224	A	N3-C4	-6.83	1.30	1.34
37	7	92	A	C6-N1	-6.83	1.30	1.35
36	1	2152	A	C6-N1	-6.83	1.30	1.35
85	5	1909	A	C5-C4	-6.83	1.33	1.38
36	1	1500	G	N3-C4	-6.83	1.30	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	93	A	C5-C4	-6.83	1.33	1.38
38	8	84	C	N3-C4	6.83	1.38	1.33
36	1	676	G	C6-N1	-6.83	1.34	1.39
80	6	305	C	N1-C6	-6.83	1.33	1.37
85	5	2599	U	N1-C2	-6.83	1.32	1.38
36	1	2199	G	N7-C5	-6.83	1.35	1.39
1	2	440	U	C2-N3	-6.82	1.32	1.37
85	5	1508	C	N3-C4	-6.82	1.29	1.33
85	5	1899	G	N9-C8	-6.82	1.33	1.37
85	5	2864	A	C5-C6	-6.82	1.34	1.41
85	5	3149	G	N7-C5	-6.82	1.35	1.39
36	1	779	G	N3-C4	-6.82	1.30	1.35
36	1	1144	U	C2-N3	-6.82	1.32	1.37
36	1	1576	G	C6-N1	6.82	1.44	1.39
36	1	897	U	N1-C2	-6.82	1.32	1.38
80	6	794	U	N1-C2	6.82	1.44	1.38
85	5	1349	G	N1-C2	6.82	1.43	1.37
36	1	913	A	C5-C6	-6.82	1.34	1.41
85	5	2425	G	N9-C4	-6.82	1.32	1.38
85	5	2615	G	N9-C4	-6.82	1.32	1.38
85	5	3187	A	N9-C4	-6.82	1.33	1.37
85	5	3376	A	N3-C4	-6.82	1.30	1.34
63	n7	99	GLU	CG-CD	6.82	1.62	1.51
85	5	49	A	N3-C4	-6.82	1.30	1.34
85	5	1598	G	N1-C2	-6.82	1.32	1.37
85	5	3138	U	C4-C5	-6.82	1.37	1.43
36	1	961	C	N1-C6	-6.81	1.33	1.37
85	5	504	A	N3-C4	-6.81	1.30	1.34
85	5	1390	A	N3-C4	-6.81	1.30	1.34
85	5	1872	C	C2-N3	-6.81	1.30	1.35
36	1	368	G	N9-C4	-6.81	1.32	1.38
36	1	424	G	C8-N7	-6.81	1.26	1.30
36	1	1164	G	N3-C4	-6.81	1.30	1.35
36	1	1415	U	N1-C6	-6.81	1.31	1.38
36	1	2243	A	C5-C4	-6.81	1.33	1.38
36	1	2501	U	C2-N3	6.81	1.42	1.37
85	5	960	U	C2-N3	6.81	1.42	1.37
85	5	3039	C	N1-C2	-6.81	1.33	1.40
85	5	3181	C	N1-C2	-6.81	1.33	1.40
36	1	2173	U	C2-O2	-6.81	1.16	1.22
36	1	2798	C	N1-C6	-6.81	1.33	1.37
80	6	1743	U	N1-C6	-6.81	1.31	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	410	U	C2-O2	-6.81	1.16	1.22
85	5	1330	A	C5-C6	-6.81	1.34	1.41
85	5	2364	G	C5-C4	-6.81	1.33	1.38
85	5	2549	G	N1-C2	6.81	1.43	1.37
36	1	213	A	C5-C6	-6.81	1.34	1.41
36	1	1094	U	N3-C4	6.81	1.44	1.38
85	5	854	G	N3-C4	-6.81	1.30	1.35
85	5	1575	A	C6-N1	6.81	1.40	1.35
85	5	2396	G	N3-C4	-6.81	1.30	1.35
85	5	3071	U	N1-C6	-6.81	1.31	1.38
38	8	14	C	N3-C4	-6.81	1.29	1.33
36	1	639	G	C8-N7	-6.81	1.26	1.30
85	5	1081	U	C4-O4	6.81	1.29	1.23
36	1	2190	U	N1-C2	-6.80	1.32	1.38
36	1	2214	A	N9-C4	-6.80	1.33	1.37
85	5	1307	G	P-O5'	-6.80	1.52	1.59
85	5	2703	A	C5-C6	-6.80	1.34	1.41
36	1	584	G	N9-C8	-6.80	1.33	1.37
36	1	1331	U	N1-C6	-6.80	1.31	1.38
36	1	2670	G	C5-C6	-6.80	1.35	1.42
85	5	2982	A	C8-N7	-6.80	1.26	1.31
36	1	593	C	N1-C6	-6.80	1.33	1.37
36	1	1026	A	N7-C5	6.80	1.43	1.39
36	1	1584	U	C4-O4	-6.80	1.18	1.23
36	1	3094	A	C6-N1	-6.80	1.30	1.35
38	4	43	A	C5-C6	-6.80	1.34	1.41
80	6	109	G	N9-C4	-6.80	1.32	1.38
85	5	442	G	C2-N3	6.80	1.38	1.32
85	5	1145	G	N7-C5	-6.80	1.35	1.39
36	1	269	G	C2-N3	-6.80	1.27	1.32
36	1	633	C	N3-C4	-6.80	1.29	1.33
85	5	561	C	N3-C4	-6.80	1.29	1.33
85	5	2825	C	C2-N3	-6.80	1.30	1.35
38	4	111	A	N7-C5	-6.80	1.35	1.39
85	5	822	G	C5-C4	-6.80	1.33	1.38
85	5	965	A	N1-C2	-6.80	1.28	1.34
85	5	1580	A	N3-C4	6.80	1.39	1.34
85	5	1617	G	N7-C5	-6.80	1.35	1.39
85	5	2706	G	C6-N1	-6.80	1.34	1.39
85	5	3142	A	C5-C4	-6.80	1.33	1.38
38	8	104	A	C5-C4	-6.80	1.33	1.38
85	5	818	C	N1-C2	-6.79	1.33	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2846	U	C5-C6	-6.79	1.28	1.34
36	1	4	U	N3-C4	6.79	1.44	1.38
36	1	1057	A	N9-C4	-6.79	1.33	1.37
36	1	2345	A	N9-C4	-6.79	1.33	1.37
85	5	1545	A	N3-C4	-6.79	1.30	1.34
85	5	3182	G	N9-C8	-6.79	1.33	1.37
36	1	785	G	C6-O6	-6.79	1.18	1.24
36	1	1931	U	C2-N3	-6.79	1.32	1.37
85	5	918	C	N1-C2	-6.79	1.33	1.40
85	5	1761	C	N3-C4	6.79	1.38	1.33
85	5	2239	G	N3-C4	-6.79	1.30	1.35
36	1	1860	G	N3-C4	-6.79	1.30	1.35
80	6	1701	A	N3-C4	6.79	1.39	1.34
85	5	1604	G	N9-C4	6.79	1.43	1.38
85	5	1790	G	N3-C4	-6.79	1.30	1.35
36	1	44	U	N1-C6	-6.79	1.31	1.38
36	1	1114	U	N3-C4	-6.79	1.32	1.38
36	1	1164	G	C6-N1	-6.79	1.34	1.39
80	6	477	A	N9-C4	-6.79	1.33	1.37
85	5	325	A	N7-C5	-6.79	1.35	1.39
85	5	957	C	C2-O2	-6.79	1.18	1.24
80	6	526	A	N7-C5	-6.79	1.35	1.39
85	5	958	C	C4-C5	-6.79	1.37	1.43
85	5	165	A	N7-C5	6.79	1.43	1.39
85	5	1751	G	N7-C5	-6.79	1.35	1.39
85	5	3021	A	N7-C5	-6.79	1.35	1.39
70	o4	84	CYS	CB-SG	-6.79	1.70	1.82
36	1	709	A	C5-C4	-6.78	1.34	1.38
36	1	963	G	N7-C5	-6.78	1.35	1.39
36	1	1476	G	C6-N1	-6.78	1.34	1.39
36	1	1529	A	N7-C5	-6.78	1.35	1.39
36	1	1806	A	N3-C4	-6.78	1.30	1.34
85	5	2637	A	N9-C4	-6.78	1.33	1.37
36	1	2886	U	C2-N3	6.78	1.42	1.37
80	6	1673	G	N3-C4	-6.78	1.30	1.35
85	5	363	G	C6-O6	-6.78	1.18	1.24
85	5	2401	A	C8-N7	6.78	1.36	1.31
36	1	645	A	C5-C4	-6.78	1.34	1.38
36	1	761	A	N3-C4	-6.78	1.30	1.34
36	1	1304	A	N9-C4	-6.78	1.33	1.37
36	1	1412	G	N7-C5	-6.78	1.35	1.39
36	1	1860	G	C6-O6	6.78	1.30	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	403	G	N7-C5	-6.78	1.35	1.39
80	6	1673	G	N1-C2	6.78	1.43	1.37
85	5	83	U	N1-C6	-6.78	1.31	1.38
85	5	1017	C	N1-C6	6.78	1.41	1.37
85	5	2270	A	C5-C6	-6.78	1.34	1.41
36	1	2334	U	C2-O2	-6.78	1.16	1.22
80	6	136	C	N3-C4	6.78	1.38	1.33
85	5	1110	U	C2-N3	-6.78	1.33	1.37
36	1	56	G	N9-C4	-6.78	1.32	1.38
36	1	1112	A	N3-C4	-6.78	1.30	1.34
36	1	1502	C	N1-C2	-6.78	1.33	1.40
36	1	2233	A	N9-C8	-6.78	1.32	1.37
36	1	1153	A	N9-C8	-6.78	1.32	1.37
68	O2	30	GLU	CG-CD	6.78	1.62	1.51
85	5	367	A	N9-C8	-6.78	1.32	1.37
85	5	428	A	N7-C5	-6.78	1.35	1.39
85	5	1389	G	N9-C4	-6.78	1.32	1.38
85	5	2229	A	N3-C4	-6.78	1.30	1.34
85	5	3157	U	C2-O2	6.78	1.28	1.22
85	5	3310	A	N7-C5	-6.78	1.35	1.39
38	8	94	C	N3-C4	-6.78	1.29	1.33
36	1	21	G	N1-C2	-6.77	1.32	1.37
36	1	282	G	N1-C2	-6.77	1.32	1.37
36	1	1418	A	C5-C4	-6.77	1.34	1.38
36	1	2307	G	N9-C4	-6.77	1.32	1.38
80	6	358	U	C4-O4	6.77	1.29	1.23
85	5	2405	C	C5-C6	-6.77	1.28	1.34
36	1	955	U	P-OP1	-6.77	1.37	1.49
36	1	1119	C	N1-C2	-6.77	1.33	1.40
36	1	1472	U	N1-C2	-6.77	1.32	1.38
85	5	585	A	N3-C4	-6.77	1.30	1.34
85	5	872	U	C5-C6	-6.77	1.28	1.34
85	5	895	A	N9-C4	-6.77	1.33	1.37
85	5	2759	U	N1-C6	-6.77	1.31	1.38
85	5	3102	G	N9-C4	-6.77	1.32	1.38
80	6	108	A	C6-N1	-6.77	1.30	1.35
85	5	807	A	C5-C6	-6.77	1.34	1.41
36	1	1117	G	N9-C8	-6.77	1.33	1.37
36	1	1883	A	N9-C4	-6.77	1.33	1.37
85	5	2994	A	N3-C4	-6.77	1.30	1.34
85	5	3142	A	N9-C8	-6.77	1.32	1.37
85	5	3294	A	C5-C4	-6.77	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
52	M6	7	VAL	CB-CG2	-6.77	1.38	1.52
85	5	1011	A	N3-C4	-6.77	1.30	1.34
37	7	100	C	N1-C2	-6.77	1.33	1.40
36	1	1420	C	C2-O2	-6.77	1.18	1.24
80	6	96	G	N3-C4	-6.77	1.30	1.35
85	5	1402	C	N1-C6	-6.77	1.33	1.37
85	5	1492	G	C2-N3	-6.77	1.27	1.32
80	6	239	C	P-OP2	6.76	1.60	1.49
80	6	617	U	C2-O2	-6.76	1.16	1.22
85	5	2190	U	N3-C4	-6.76	1.32	1.38
85	5	2956	A	N7-C5	-6.76	1.35	1.39
36	1	637	C	N1-C2	-6.76	1.33	1.40
85	5	2119	A	N7-C5	-6.76	1.35	1.39
85	5	2891	U	P-OP2	-6.76	1.37	1.49
85	5	837	A	N9-C4	-6.76	1.33	1.37
85	5	2867	C	C4-C5	-6.76	1.37	1.43
85	5	3207	U	C5-C6	6.76	1.40	1.34
36	1	958	C	C2-O2	-6.76	1.18	1.24
85	5	2775	U	N3-C4	-6.76	1.32	1.38
85	5	2780	A	N9-C4	-6.76	1.33	1.37
85	5	3315	G	N3-C4	-6.76	1.30	1.35
41	14	274	TYR	CD1-CE1	-6.76	1.29	1.39
36	1	251	G	N7-C5	6.76	1.43	1.39
36	1	2812	C	N1-C2	-6.76	1.33	1.40
85	5	2359	C	N1-C2	-6.76	1.33	1.40
85	5	2361	A	C5-C4	-6.76	1.34	1.38
36	1	282	G	N3-C4	-6.76	1.30	1.35
36	1	1113	G	N3-C4	-6.76	1.30	1.35
36	1	2986	U	N1-C2	-6.76	1.32	1.38
36	1	3092	C	N1-C6	-6.76	1.33	1.37
85	5	1879	A	N3-C4	-6.76	1.30	1.34
85	5	2295	A	N9-C4	-6.76	1.33	1.37
85	5	3016	A	N7-C5	-6.76	1.35	1.39
36	1	1133	A	N7-C5	-6.75	1.35	1.39
80	6	436	A	C6-N1	-6.75	1.30	1.35
80	6	482	U	C2-N3	6.75	1.42	1.37
80	6	1303	U	N1-C2	-6.75	1.32	1.38
85	5	1188	U	N1-C6	-6.75	1.31	1.38
85	5	2607	G	C2-N3	-6.75	1.27	1.32
85	5	3086	A	N3-C4	-6.75	1.30	1.34
36	1	1128	U	N1-C6	-6.75	1.31	1.38
36	1	1800	A	N9-C8	-6.75	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2756	C	C2-N3	-6.75	1.30	1.35
85	5	344	A	N9-C4	-6.75	1.33	1.37
85	5	801	A	N3-C4	-6.75	1.30	1.34
85	5	1613	A	N3-C4	-6.75	1.30	1.34
85	5	1844	C	N1-C6	-6.75	1.33	1.37
85	5	2761	G	N1-C2	-6.75	1.32	1.37
36	1	344	A	N3-C4	6.75	1.39	1.34
36	1	1169	A	C5-C4	-6.75	1.34	1.38
36	1	2938	G	C6-N1	-6.75	1.34	1.39
85	5	1436	U	N1-C6	-6.75	1.31	1.38
36	1	516	A	C6-N1	-6.75	1.30	1.35
80	6	336	G	N3-C4	-6.75	1.30	1.35
85	5	875	G	C6-N1	-6.75	1.34	1.39
85	5	3032	A	N3-C4	-6.75	1.30	1.34
36	1	1462	A	C6-N1	-6.75	1.30	1.35
51	M5	200	TRP	CB-CG	-6.75	1.38	1.50
85	5	2339	C	N1-C6	-6.75	1.33	1.37
85	5	2352	A	N9-C8	-6.75	1.32	1.37
85	5	2751	G	C8-N7	6.75	1.34	1.30
36	1	677	A	C6-N1	-6.75	1.30	1.35
36	1	2822	U	N1-C2	-6.75	1.32	1.38
85	5	1135	A	C5-C4	-6.75	1.34	1.38
85	5	1521	G	N1-C2	-6.75	1.32	1.37
36	1	2407	C	C4-C5	-6.75	1.37	1.43
85	5	1117	G	C6-N1	-6.75	1.34	1.39
85	5	3303	G	C5-C4	-6.75	1.33	1.38
85	5	3373	U	C2-N3	-6.75	1.33	1.37
36	1	985	U	C2-O2	-6.74	1.16	1.22
85	5	1887	A	C5-C4	-6.74	1.34	1.38
36	1	1350	A	N3-C4	6.74	1.38	1.34
36	1	2754	G	N3-C4	-6.74	1.30	1.35
36	1	2823	G	N7-C5	-6.74	1.35	1.39
36	1	317	A	N7-C5	-6.74	1.35	1.39
36	1	1867	A	N9-C4	-6.74	1.33	1.37
85	5	425	G	C2-N2	-6.74	1.27	1.34
36	1	2726	C	N1-C6	-6.74	1.33	1.37
80	6	834	G	C6-N1	6.74	1.44	1.39
85	5	1297	C	C4-C5	-6.74	1.37	1.43
36	1	59	G	C6-N1	6.74	1.44	1.39
36	1	707	U	N1-C2	-6.74	1.32	1.38
36	1	752	C	N3-C4	-6.74	1.29	1.33
36	1	974	G	C6-N1	-6.74	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	1081	A	C6-N1	6.74	1.40	1.35
80	6	1128	C	N1-C6	-6.74	1.33	1.37
80	6	1800	A	C5-C6	6.74	1.47	1.41
85	5	1560	G	N1-C2	6.74	1.43	1.37
85	5	1580	A	C5-C4	6.74	1.43	1.38
85	5	2968	G	C6-N1	-6.74	1.34	1.39
36	1	802	C	C2-O2	-6.73	1.18	1.24
36	1	908	G	C5-C6	-6.73	1.35	1.42
80	6	1678	A	N9-C4	-6.73	1.33	1.37
36	1	988	U	N1-C2	-6.73	1.32	1.38
1	2	541	A	N9-C4	6.73	1.41	1.37
36	1	424	G	N1-C2	-6.73	1.32	1.37
80	6	74	U	C2-N3	6.73	1.42	1.37
85	5	870	G	C5-C4	6.73	1.43	1.38
85	5	2127	U	C4-C5	-6.73	1.37	1.43
85	5	2180	G	N3-C4	-6.73	1.30	1.35
85	5	2208	A	C6-N1	6.73	1.40	1.35
36	1	21	G	C6-N1	-6.73	1.34	1.39
36	1	95	A	N3-C4	-6.73	1.30	1.34
36	1	361	A	N9-C4	-6.73	1.33	1.37
36	1	1425	U	N1-C6	-6.73	1.31	1.38
1	2	341	A	N7-C5	-6.73	1.35	1.39
36	1	2689	A	N9-C4	-6.73	1.33	1.37
80	6	1635	A	N7-C5	-6.73	1.35	1.39
85	5	1619	A	N9-C4	-6.73	1.33	1.37
85	5	1637	A	N9-C4	-6.73	1.33	1.37
85	5	1868	G	C5-C6	-6.73	1.35	1.42
85	5	3191	G	N9-C8	-6.73	1.33	1.37
85	5	3273	A	N7-C5	-6.73	1.35	1.39
1	2	1121	A	C6-N1	-6.73	1.30	1.35
85	5	1057	A	C5-C4	-6.73	1.34	1.38
1	2	821	G	C6-N1	6.72	1.44	1.39
1	2	1711	A	N3-C4	-6.72	1.30	1.34
36	1	400	G	C5-C4	-6.72	1.33	1.38
80	6	1119	G	C5-C4	-6.72	1.33	1.38
85	5	873	C	N3-C4	-6.72	1.29	1.33
85	5	1058	U	N1-C2	-6.72	1.32	1.38
85	5	2395	G	C5-C6	-6.72	1.35	1.42
85	5	2666	C	C2-O2	-6.72	1.18	1.24
85	5	2940	A	C5-C4	-6.72	1.34	1.38
36	1	2149	A	C5-C4	-6.72	1.34	1.38
80	6	1139	A	N9-C8	-6.72	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1182	A	N9-C4	-6.72	1.33	1.37
85	5	2559	U	C2-N3	-6.72	1.33	1.37
36	1	28	C	C2-O2	-6.72	1.18	1.24
36	1	935	U	N1-C2	-6.72	1.32	1.38
85	5	2216	G	N3-C4	-6.72	1.30	1.35
36	1	949	C	N1-C2	-6.72	1.33	1.40
85	5	2136	C	N3-C4	-6.72	1.29	1.33
85	5	3015	G	N9-C4	-6.72	1.32	1.38
1	2	137	U	N1-C2	6.72	1.44	1.38
85	5	1693	C	N3-C4	-6.72	1.29	1.33
85	5	1896	A	N9-C4	-6.72	1.33	1.37
36	1	301	G	N7-C5	-6.72	1.35	1.39
36	1	1115	G	C6-N1	-6.72	1.34	1.39
36	1	2180	G	C5-C6	-6.72	1.35	1.42
36	1	3103	A	N9-C8	-6.72	1.32	1.37
80	6	1784	C	C2-N3	-6.72	1.30	1.35
85	5	755	A	N7-C5	-6.72	1.35	1.39
85	5	2340	U	C2-N3	-6.72	1.33	1.37
85	5	3050	U	N3-C4	-6.72	1.32	1.38
38	8	79	A	N1-C2	6.72	1.40	1.34
36	1	392	G	C6-N1	6.71	1.44	1.39
36	1	1156	C	C2-N3	-6.71	1.30	1.35
36	1	1364	C	C5-C6	-6.71	1.28	1.34
36	1	2862	U	N3-C4	-6.71	1.32	1.38
80	6	962	C	N1-C6	-6.71	1.33	1.37
80	6	1638	G	C6-N1	-6.71	1.34	1.39
85	5	2361	A	N7-C5	-6.71	1.35	1.39
85	5	2746	A	N7-C5	-6.71	1.35	1.39
85	5	2939	G	C8-N7	-6.71	1.26	1.30
36	1	1459	C	N1-C2	-6.71	1.33	1.40
85	5	1172	G	N9-C8	-6.71	1.33	1.37
36	1	1438	U	C2-N3	-6.71	1.33	1.37
36	1	1905	G	C6-N1	-6.71	1.34	1.39
36	1	2226	U	N1-C2	-6.71	1.32	1.38
85	5	425	G	C2-N3	-6.71	1.27	1.32
85	5	1908	A	N7-C5	-6.71	1.35	1.39
36	1	1356	U	N1-C2	6.71	1.44	1.38
36	1	1530	U	N1-C6	-6.71	1.31	1.38
1	2	961	A	C6-N1	-6.71	1.30	1.35
36	1	986	U	N3-C4	-6.71	1.32	1.38
36	1	1581	C	N1-C2	6.71	1.46	1.40
36	1	3206	C	N1-C6	-6.71	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	333	A	C5-C4	-6.71	1.34	1.38
85	5	1186	G	N3-C4	-6.71	1.30	1.35
85	5	2150	G	C5-C6	-6.71	1.35	1.42
36	1	1373	A	C6-N1	-6.71	1.30	1.35
36	1	2215	A	C5-C6	-6.71	1.35	1.41
85	5	55	G	N9-C8	-6.71	1.33	1.37
85	5	1886	A	N3-C4	-6.71	1.30	1.34
85	5	2411	U	C2-O2	-6.71	1.16	1.22
36	1	2928	C	N1-C6	-6.70	1.33	1.37
80	6	165	G	N3-C4	-6.70	1.30	1.35
80	6	755	A	C5-C6	-6.70	1.35	1.41
85	5	915	A	C5-C4	-6.70	1.34	1.38
85	5	1298	C	N1-C6	-6.70	1.33	1.37
85	5	1528	G	N3-C4	-6.70	1.30	1.35
85	5	2208	A	N9-C4	6.70	1.41	1.37
85	5	2300	G	C6-O6	-6.70	1.18	1.24
37	7	99	G	N3-C4	-6.70	1.30	1.35
85	5	821	U	C2-N3	-6.70	1.33	1.37
85	5	826	G	N9-C4	-6.70	1.32	1.38
85	5	1934	G	C5-C4	6.70	1.43	1.38
85	5	2732	G	N9-C8	-6.70	1.33	1.37
85	5	2924	U	C2-N3	-6.70	1.33	1.37
85	5	2955	U	N1-C6	-6.70	1.31	1.38
38	8	133	G	C5-C4	-6.70	1.33	1.38
36	1	40	A	N3-C4	-6.70	1.30	1.34
36	1	1156	C	C2-O2	-6.70	1.18	1.24
36	1	1170	A	C5-C4	-6.70	1.34	1.38
36	1	2209	U	N1-C6	6.70	1.44	1.38
85	5	1505	C	N1-C6	-6.70	1.33	1.37
85	5	1907	C	N1-C2	-6.70	1.33	1.40
85	5	3211	C	N1-C6	-6.70	1.33	1.37
1	2	958	C	N1-C6	-6.70	1.33	1.37
36	1	85	A	N9-C8	-6.70	1.32	1.37
36	1	2309	A	N3-C4	-6.70	1.30	1.34
80	6	339	C	N3-C4	-6.70	1.29	1.33
80	6	1786	G	N9-C4	-6.70	1.32	1.38
85	5	2791	G	N9-C4	-6.70	1.32	1.38
36	1	832	G	C5-C4	-6.70	1.33	1.38
80	6	164	A	N3-C4	-6.70	1.30	1.34
85	5	2997	G	N9-C4	-6.70	1.32	1.38
40	13	314	TYR	CE1-CZ	-6.70	1.29	1.38
1	2	103	A	N3-C4	-6.69	1.30	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1529	A	N9-C4	-6.69	1.33	1.37
80	6	103	A	P-OP2	6.69	1.60	1.49
1	2	338	C	N3-C4	-6.69	1.29	1.33
36	1	894	G	N3-C4	-6.69	1.30	1.35
36	1	3127	A	N7-C5	-6.69	1.35	1.39
85	5	500	C	N3-C4	-6.69	1.29	1.33
85	5	702	C	C4-C5	-6.69	1.37	1.43
36	1	3127	A	C5-C6	-6.69	1.35	1.41
80	6	341	A	C5-C4	-6.69	1.34	1.38
80	6	982	U	P-OP1	6.69	1.60	1.49
85	5	1117	G	N1-C2	-6.69	1.32	1.37
85	5	1348	U	C5-C6	6.69	1.40	1.34
85	5	2742	C	C2-N3	-6.69	1.30	1.35
38	8	98	U	C4-O4	6.69	1.29	1.23
36	1	2207	A	N7-C5	6.69	1.43	1.39
85	5	2800	G	C5-C4	-6.69	1.33	1.38
40	l3	146	ARG	CG-CD	6.69	1.68	1.51
1	2	1436	G	N9-C8	-6.69	1.33	1.37
36	1	647	A	N9-C8	-6.69	1.32	1.37
36	1	1100	U	C2-N3	-6.69	1.33	1.37
36	1	2187	G	C6-N1	-6.69	1.34	1.39
36	1	2933	A	C6-N1	-6.69	1.30	1.35
36	1	2979	U	N3-C4	-6.69	1.32	1.38
80	6	1732	A	N9-C4	-6.69	1.33	1.37
85	5	1302	A	N7-C5	-6.69	1.35	1.39
85	5	2831	G	C5-C4	-6.69	1.33	1.38
80	6	411	C	N3-C4	-6.69	1.29	1.33
36	1	714	G	C6-N1	-6.68	1.34	1.39
36	1	900	G	N3-C4	-6.68	1.30	1.35
85	5	1128	U	C4-O4	-6.68	1.18	1.23
85	5	1532	C	N1-C6	-6.68	1.33	1.37
85	5	2977	G	C6-O6	-6.68	1.18	1.24
36	1	85	A	C6-N1	-6.68	1.30	1.35
36	1	584	G	N7-C5	-6.68	1.35	1.39
36	1	1408	G	N7-C5	-6.68	1.35	1.39
36	1	1580	A	N9-C4	6.68	1.41	1.37
85	5	660	A	C5-C4	-6.68	1.34	1.38
85	5	2224	A	C5-C4	-6.68	1.34	1.38
85	5	2385	G	N3-C4	-6.68	1.30	1.35
85	5	2959	C	N3-C4	-6.68	1.29	1.33
85	5	3295	A	N9-C4	-6.68	1.33	1.37
59	n3	33	ASN	CB-CG	-6.68	1.35	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2	99	C	N3-C4	-6.68	1.29	1.33
36	1	307	A	C5-C4	-6.68	1.34	1.38
36	1	405	U	C2-N3	-6.68	1.33	1.37
36	1	648	C	C2-O2	-6.68	1.18	1.24
36	1	958	C	N1-C2	-6.68	1.33	1.40
36	1	1028	U	N3-C4	6.68	1.44	1.38
36	1	1292	C	N1-C6	-6.68	1.33	1.37
36	1	1603	A	N1-C2	-6.68	1.28	1.34
36	1	2225	U	N1-C6	-6.68	1.31	1.38
80	6	1681	A	N7-C5	-6.68	1.35	1.39
28	d6	77	CYS	CB-SG	-6.68	1.70	1.82
36	1	2242	A	N7-C5	-6.68	1.35	1.39
36	1	2412	G	N1-C2	-6.68	1.32	1.37
85	5	1599	G	N9-C8	-6.68	1.33	1.37
36	1	588	G	N3-C4	-6.68	1.30	1.35
36	1	2202	C	C4-C5	-6.68	1.37	1.43
36	1	3274	A	N3-C4	-6.68	1.30	1.34
80	6	1030	A	C6-N1	-6.68	1.30	1.35
85	5	772	U	N1-C2	-6.68	1.32	1.38
85	5	2181	C	N1-C6	-6.68	1.33	1.37
85	5	2702	A	N9-C8	-6.68	1.32	1.37
36	1	859	G	N3-C4	-6.67	1.30	1.35
36	1	978	G	C5-C4	-6.67	1.33	1.38
36	1	1414	G	N3-C4	-6.67	1.30	1.35
36	1	3283	U	C2-N3	6.67	1.42	1.37
85	5	888	A	N3-C4	-6.67	1.30	1.34
50	m4	28	SER	CA-C	-6.67	1.35	1.52
53	m7	120	ASN	CB-CG	-6.67	1.35	1.51
36	1	783	A	N7-C5	-6.67	1.35	1.39
36	1	1380	G	C5-C4	-6.67	1.33	1.38
36	1	1681	U	C2-N3	-6.67	1.33	1.37
38	4	104	A	N3-C4	-6.67	1.30	1.34
85	5	2608	G	N7-C5	-6.67	1.35	1.39
85	5	3132	C	N1-C2	-6.67	1.33	1.40
1	2	976	A	N3-C4	-6.67	1.30	1.34
36	1	806	A	C6-N1	-6.67	1.30	1.35
85	5	2877	G	C5-C4	6.67	1.43	1.38
36	1	1136	A	C6-N1	-6.67	1.30	1.35
36	1	1383	G	N7-C5	-6.67	1.35	1.39
36	1	2337	C	C4-C5	-6.67	1.37	1.43
36	1	2622	C	N3-C4	-6.67	1.29	1.33
85	5	3000	A	C5-C6	-6.67	1.35	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	793	C	N1-C2	-6.67	1.33	1.40
36	1	1314	C	N3-C4	-6.67	1.29	1.33
36	1	2184	U	N1-C2	-6.67	1.32	1.38
51	M5	121	VAL	CB-CG1	-6.67	1.38	1.52
80	6	1091	A	P-OP1	6.67	1.60	1.49
85	5	2930	A	N9-C8	-6.67	1.32	1.37
1	2	1183	G	N7-C5	-6.66	1.35	1.39
1	2	1654	A	N9-C4	-6.66	1.33	1.37
36	1	1306	G	N7-C5	-6.66	1.35	1.39
36	1	1364	C	C4-C5	-6.66	1.37	1.43
85	5	2935	U	C4-O4	6.66	1.28	1.23
85	5	685	G	N3-C4	-6.66	1.30	1.35
85	5	1116	G	N9-C8	-6.66	1.33	1.37
85	5	2885	C	C4-C5	-6.66	1.37	1.43
36	1	1308	A	C5-C6	-6.66	1.35	1.41
54	M8	9	GLN	CB-CG	-6.66	1.34	1.52
85	5	1207	G	C5-C4	-6.66	1.33	1.38
85	5	1381	A	N9-C4	-6.66	1.33	1.37
85	5	2968	G	C8-N7	-6.66	1.26	1.30
37	7	35	C	N1-C6	-6.66	1.33	1.37
1	2	1016	C	C2-N3	-6.66	1.30	1.35
36	1	799	G	C5-C4	-6.66	1.33	1.38
36	1	2732	G	N1-C2	-6.66	1.32	1.37
80	6	1550	A	C5-C6	-6.66	1.35	1.41
1	2	1096	A	C5-C6	-6.65	1.35	1.41
36	1	933	A	N9-C4	-6.65	1.33	1.37
85	5	2313	A	N7-C5	-6.65	1.35	1.39
36	1	1162	U	N3-C4	-6.65	1.32	1.38
36	1	1462	A	N7-C5	-6.65	1.35	1.39
36	1	2374	C	C2-N3	-6.65	1.30	1.35
85	5	1006	A	N9-C8	-6.65	1.32	1.37
36	1	968	G	N1-C2	-6.65	1.32	1.37
36	1	3016	A	N9-C4	-6.65	1.33	1.37
80	6	359	A	N9-C4	-6.65	1.33	1.37
85	5	2780	A	N7-C5	-6.65	1.35	1.39
37	7	12	U	N1-C2	-6.65	1.32	1.38
36	1	1156	C	N1-C2	-6.65	1.33	1.40
36	1	2246	G	N3-C4	-6.65	1.30	1.35
80	6	1731	A	N3-C4	-6.65	1.30	1.34
85	5	2648	G	N9-C4	-6.65	1.32	1.38
36	1	52	A	N1-C2	-6.65	1.28	1.34
36	1	976	U	C2-N3	-6.65	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1453	A	C6-N1	-6.65	1.30	1.35
85	5	2291	A	N9-C4	-6.65	1.33	1.37
36	1	1148	G	C5-C4	-6.65	1.33	1.38
85	5	2764	C	C2-N3	-6.65	1.30	1.35
36	1	2232	A	N9-C8	-6.64	1.32	1.37
36	1	2380	U	C4-C5	-6.64	1.37	1.43
38	4	29	U	N1-C6	-6.64	1.31	1.38
80	6	315	A	C5-C6	-6.64	1.35	1.41
85	5	907	G	N7-C5	-6.64	1.35	1.39
85	5	1158	A	N3-C4	-6.64	1.30	1.34
85	5	1341	U	N1-C2	-6.64	1.32	1.38
1	2	1106	C	N1-C6	-6.64	1.33	1.37
36	1	505	G	N9-C4	-6.64	1.32	1.38
36	1	867	G	C6-O6	6.64	1.30	1.24
80	6	103	A	C3'-O3'	6.64	1.51	1.42
80	6	926	A	N7-C5	-6.64	1.35	1.39
36	1	953	G	C5-C6	-6.64	1.35	1.42
85	5	1779	C	N3-C4	-6.64	1.29	1.33
38	8	7	U	N1-C2	-6.64	1.32	1.38
36	1	756	U	C2-N3	-6.64	1.33	1.37
80	6	426	G	N9-C8	-6.64	1.33	1.37
80	6	619	A	C6-N1	-6.64	1.30	1.35
85	5	808	A	C5-C6	-6.64	1.35	1.41
85	5	1658	G	N9-C8	-6.64	1.33	1.37
85	5	2375	G	N9-C8	-6.64	1.33	1.37
85	5	2727	A	C5-C4	-6.64	1.34	1.38
85	5	3307	A	N3-C4	-6.64	1.30	1.34
59	n3	94	TYR	CD1-CE1	-6.64	1.29	1.39
79	q3	55	TRP	CA-CB	-6.64	1.39	1.53
36	1	2613	U	C2-O2	-6.64	1.16	1.22
38	4	137	C	N1-C2	-6.64	1.33	1.40
85	5	862	U	N1-C2	-6.64	1.32	1.38
85	5	1915	A	C5-C4	-6.64	1.34	1.38
85	5	2941	A	C6-N1	-6.64	1.30	1.35
85	5	2959	C	N1-C6	-6.64	1.33	1.37
85	5	2858	U	C2-O2	-6.64	1.16	1.22
37	7	95	A	C6-N1	-6.64	1.30	1.35
38	8	23	U	C2-O2	-6.64	1.16	1.22
36	1	1900	A	C6-N1	-6.63	1.30	1.35
85	5	2403	G	C6-O6	6.63	1.30	1.24
37	7	26	C	C2-N3	6.63	1.41	1.35
38	4	72	A	N3-C4	-6.63	1.30	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	1654	G	N7-C5	-6.63	1.35	1.39
36	1	1486	G	N7-C5	-6.63	1.35	1.39
37	3	103	A	N3-C4	-6.63	1.30	1.34
85	5	195	U	N3-C4	-6.63	1.32	1.38
85	5	2967	A	C6-N1	-6.63	1.30	1.35
80	6	1051	G	C5-C4	6.63	1.43	1.38
85	5	49	A	N7-C5	-6.63	1.35	1.39
85	5	518	G	C5-C6	6.63	1.49	1.42
85	5	899	U	N3-C4	-6.63	1.32	1.38
36	1	955	U	N3-C4	-6.63	1.32	1.38
36	1	2387	A	N7-C5	-6.63	1.35	1.39
80	6	364	G	N9-C8	-6.63	1.33	1.37
80	6	1024	U	C2-N3	-6.63	1.33	1.37
85	5	1312	C	C2-O2	-6.63	1.18	1.24
85	5	2240	G	N9-C8	-6.63	1.33	1.37
36	1	1116	G	N9-C4	-6.63	1.32	1.38
36	1	1881	A	N9-C4	-6.63	1.33	1.37
85	5	2730	G	C6-N1	-6.63	1.34	1.39
36	1	1380	G	N7-C5	-6.62	1.35	1.39
36	1	2958	A	C5-C4	-6.62	1.34	1.38
85	5	983	A	N3-C4	-6.62	1.30	1.34
85	5	1421	G	C2-N3	-6.62	1.27	1.32
85	5	1654	A	C6-N1	-6.62	1.30	1.35
85	5	2296	A	C8-N7	-6.62	1.26	1.31
36	1	2304	C	N1-C6	-6.62	1.33	1.37
36	1	2876	C	C2-O2	-6.62	1.18	1.24
80	6	1702	A	N3-C4	6.62	1.38	1.34
85	5	32	U	C2-N3	-6.62	1.33	1.37
85	5	633	C	N1-C2	-6.62	1.33	1.40
36	1	873	C	N1-C6	-6.62	1.33	1.37
36	1	1683	A	N7-C5	-6.62	1.35	1.39
85	5	308	A	N3-C4	-6.62	1.30	1.34
85	5	1290	A	N9-C4	-6.62	1.33	1.37
85	5	2927	C	C2-N3	6.62	1.41	1.35
85	5	3039	C	N3-C4	-6.62	1.29	1.33
85	5	661	G	N1-C2	-6.62	1.32	1.37
36	1	1302	A	N9-C8	-6.62	1.32	1.37
36	1	1389	G	C5-C6	-6.62	1.35	1.42
85	5	1203	A	C6-N1	-6.62	1.30	1.35
85	5	1793	C	N1-C2	-6.62	1.33	1.40
36	1	2816	G	N9-C8	-6.62	1.33	1.37
85	5	1426	C	N1-C2	-6.62	1.33	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	8	15	G	N1-C2	-6.62	1.32	1.37
36	1	408	A	N3-C4	-6.61	1.30	1.34
36	1	802	C	N1-C6	-6.61	1.33	1.37
36	1	2637	A	C6-N6	-6.61	1.28	1.33
36	1	2990	G	C8-N7	-6.61	1.26	1.30
85	5	787	G	N3-C4	-6.61	1.30	1.35
53	M7	91	VAL	CB-CG2	-6.61	1.39	1.52
85	5	2353	G	C5-C6	-6.61	1.35	1.42
36	1	864	G	N3-C4	-6.61	1.30	1.35
36	1	1893	A	N9-C4	-6.61	1.33	1.37
36	1	2206	G	C6-N1	6.61	1.44	1.39
85	5	512	U	N3-C4	-6.61	1.32	1.38
85	5	1944	U	N3-C4	-6.61	1.32	1.38
80	6	1004	U	N1-C2	-6.61	1.32	1.38
9	S7	95	GLU	CG-CD	6.61	1.61	1.51
36	1	18	G	C5-C6	-6.61	1.35	1.42
36	1	1876	U	N1-C6	-6.61	1.32	1.38
36	1	2617	U	N3-C4	-6.61	1.32	1.38
36	1	2721	A	C5-C6	-6.61	1.35	1.41
85	5	1065	A	N3-C4	-6.61	1.30	1.34
85	5	1171	G	C2-N3	-6.61	1.27	1.32
85	5	3345	G	C6-N1	6.61	1.44	1.39
85	5	3390	G	C5-C4	-6.61	1.33	1.38
36	1	34	A	N9-C4	-6.61	1.33	1.37
36	1	694	C	N1-C6	-6.61	1.33	1.37
36	1	891	G	N9-C8	-6.61	1.33	1.37
36	1	2859	U	N1-C2	-6.61	1.32	1.38
41	L4	248	VAL	CB-CG2	-6.61	1.39	1.52
85	5	1476	G	C5-C4	-6.61	1.33	1.38
38	8	92	A	C5-C6	-6.61	1.35	1.41
36	1	1475	A	N3-C4	-6.60	1.30	1.34
85	5	1118	C	C4-C5	-6.60	1.37	1.43
37	7	61	G	C5-C4	-6.60	1.33	1.38
25	D3	71	CYS	CB-SG	-6.60	1.71	1.82
36	1	1883	A	C6-N1	-6.60	1.30	1.35
36	1	2207	A	C5-C6	6.60	1.47	1.41
36	1	2522	G	N1-C2	6.60	1.43	1.37
36	1	2820	A	N9-C4	-6.60	1.33	1.37
36	1	2843	U	N1-C2	6.60	1.44	1.38
85	5	12	A	N9-C4	-6.60	1.33	1.37
85	5	308	A	N9-C4	-6.60	1.33	1.37
85	5	2342	U	N3-C4	-6.60	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	8	84	C	C2-N3	6.60	1.41	1.35
36	1	1486	G	N3-C4	-6.60	1.30	1.35
36	1	584	G	C5-C4	-6.60	1.33	1.38
36	1	1116	G	C2'-C1'	-6.60	1.46	1.53
36	1	1173	U	N3-C4	-6.60	1.32	1.38
85	5	837	A	N3-C4	-6.60	1.30	1.34
85	5	2918	G	N7-C5	-6.60	1.35	1.39
85	5	3123	A	N9-C8	-6.60	1.32	1.37
36	1	836	A	N7-C5	-6.60	1.35	1.39
36	1	2247	G	N3-C4	-6.60	1.30	1.35
85	5	1495	U	C2-O2	-6.60	1.16	1.22
85	5	2854	U	N1-C6	-6.60	1.32	1.38
85	5	3379	C	N1-C2	-6.60	1.33	1.40
80	6	45	U	C2-N3	-6.60	1.33	1.37
85	5	744	A	N9-C4	-6.60	1.33	1.37
1	2	1097	G	C5-C6	-6.59	1.35	1.42
1	2	1541	U	C2-N3	-6.59	1.33	1.37
36	1	305	U	C2-N3	-6.59	1.33	1.37
36	1	2276	G	C5-C4	-6.59	1.33	1.38
1	2	771	A	N9-C4	6.59	1.41	1.37
1	2	1114	A	N9-C4	-6.59	1.33	1.37
85	5	103	G	N9-C8	-6.59	1.33	1.37
85	5	2375	G	N3-C4	-6.59	1.30	1.35
36	1	60	A	N9-C4	-6.59	1.33	1.37
36	1	945	C	N1-C2	-6.59	1.33	1.40
36	1	995	U	N1-C6	-6.59	1.32	1.38
36	1	2684	C	N1-C2	-6.59	1.33	1.40
85	5	2276	G	N9-C4	-6.59	1.32	1.38
85	5	3149	G	C5-C6	-6.59	1.35	1.42
36	1	746	A	N3-C4	-6.59	1.30	1.34
36	1	1784	G	N3-C4	-6.59	1.30	1.35
85	5	1436	U	N3-C4	-6.59	1.32	1.38
1	2	411	C	N3-C4	-6.59	1.29	1.33
36	1	360	G	C2-N3	6.59	1.38	1.32
37	3	35	C	N1-C6	-6.59	1.33	1.37
85	5	1845	G	C5-C4	-6.59	1.33	1.38
85	5	3081	C	N1-C2	-6.59	1.33	1.40
36	1	1822	C	N3-C4	-6.59	1.29	1.33
36	1	2620	G	C5-C4	-6.59	1.33	1.38
36	1	2964	G	C6-N1	-6.59	1.34	1.39
36	1	3094	A	C5-C4	-6.59	1.34	1.38
38	4	10	A	C5-C4	-6.59	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	163	G	N3-C4	-6.59	1.30	1.35
85	5	510	G	C5-C4	-6.59	1.33	1.38
85	5	604	G	N1-C2	6.59	1.43	1.37
85	5	821	U	C2-O2	-6.59	1.16	1.22
85	5	2618	G	N3-C4	-6.59	1.30	1.35
80	6	1644	C	N1-C6	-6.58	1.33	1.37
36	1	1678	G	N7-C5	-6.58	1.35	1.39
85	5	2133	U	C2-N3	-6.58	1.33	1.37
85	5	2384	A	N9-C4	-6.58	1.33	1.37
85	5	2754	G	N1-C2	-6.58	1.32	1.37
36	1	2604	U	N1-C6	-6.58	1.32	1.38
85	5	686	G	N3-C4	-6.58	1.30	1.35
85	5	2242	A	C5-C4	-6.58	1.34	1.38
36	1	1762	C	N3-C4	6.58	1.38	1.33
85	5	315	C	C2-N3	-6.58	1.30	1.35
85	5	3047	U	N1-C6	-6.58	1.32	1.38
85	5	3052	G	C5-C4	-6.58	1.33	1.38
1	2	601	A	C6-N1	-6.58	1.30	1.35
1	2	1010	A	N7-C5	-6.58	1.35	1.39
36	1	1117	G	C6-N1	-6.58	1.34	1.39
36	1	1493	G	C6-N1	-6.58	1.34	1.39
36	1	1883	A	C5-C4	-6.58	1.34	1.38
38	4	16	G	C5-C4	-6.58	1.33	1.38
85	5	2938	G	C4'-C3'	-6.58	1.46	1.53
37	7	43	U	N3-C4	-6.58	1.32	1.38
37	7	54	U	N3-C4	-6.58	1.32	1.38
36	1	2349	U	N1-C6	-6.58	1.32	1.38
85	5	519	A	N3-C4	-6.58	1.30	1.34
36	1	756	U	N1-C6	-6.58	1.32	1.38
85	5	1432	C	C4-C5	-6.58	1.37	1.43
85	5	2325	G	C2-N3	-6.58	1.27	1.32
1	2	629	U	N1-C6	-6.57	1.32	1.38
36	1	76	G	C6-O6	-6.57	1.18	1.24
36	1	1900	A	N3-C4	-6.57	1.30	1.34
85	5	428	A	C5-C4	-6.57	1.34	1.38
85	5	1408	G	C5-C4	-6.57	1.33	1.38
85	5	2166	A	N3-C4	-6.57	1.30	1.34
85	5	3183	A	N9-C4	-6.57	1.33	1.37
37	7	113	C	N1-C6	-6.57	1.33	1.37
36	1	837	A	N9-C4	-6.57	1.33	1.37
85	5	3105	U	C2-N3	-6.57	1.33	1.37
39	12	143	GLU	CB-CG	6.57	1.64	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1062	A	N7-C5	-6.57	1.35	1.39
36	1	1635	G	N7-C5	-6.57	1.35	1.39
36	1	2758	A	C5-C6	6.57	1.47	1.41
7	s5	87	CYS	CB-SG	-6.57	1.71	1.82
85	5	993	G	N9-C8	-6.57	1.33	1.37
85	5	1364	C	N1-C6	-6.57	1.33	1.37
85	5	2407	C	N1-C6	-6.57	1.33	1.37
36	1	3172	A	N3-C4	-6.57	1.30	1.34
80	6	973	A	C5-C4	-6.57	1.34	1.38
85	5	648	C	N1-C6	-6.57	1.33	1.37
85	5	1414	G	N7-C5	-6.57	1.35	1.39
85	5	1897	G	N3-C4	-6.57	1.30	1.35
85	5	3374	U	C2-N3	-6.57	1.33	1.37
36	1	790	U	N3-C4	-6.57	1.32	1.38
36	1	2864	A	N7-C5	-6.57	1.35	1.39
80	6	596	C	N1-C6	-6.57	1.33	1.37
1	2	236	A	N3-C4	6.57	1.38	1.34
36	1	18	G	N9-C4	-6.57	1.32	1.38
36	1	1103	A	C5-C6	6.57	1.47	1.41
85	5	706	A	C6-N1	-6.57	1.30	1.35
85	5	997	A	C6-N6	-6.57	1.28	1.33
85	5	2145	A	C6-N1	-6.57	1.30	1.35
85	5	2951	G	N7-C5	-6.57	1.35	1.39
85	5	3232	G	N3-C4	-6.57	1.30	1.35
85	5	901	G	N9-C8	-6.56	1.33	1.37
53	m7	21	TYR	CE1-CZ	-6.56	1.30	1.38
1	2	1179	A	N9-C4	6.56	1.41	1.37
36	1	1540	U	N1-C2	-6.56	1.32	1.38
36	1	2691	A	N3-C4	-6.56	1.30	1.34
80	6	51	A	N9-C4	-6.56	1.33	1.37
80	6	1100	G	N1-C2	-6.56	1.32	1.37
85	5	1405	U	C2-O2	-6.56	1.16	1.22
38	8	81	U	N1-C6	6.56	1.43	1.38
36	1	1094	U	N1-C6	6.56	1.43	1.38
85	5	863	C	C2-O2	-6.56	1.18	1.24
85	5	1677	G	N7-C5	6.56	1.43	1.39
85	5	2406	C	N1-C6	-6.56	1.33	1.37
36	1	19	U	N3-C4	-6.56	1.32	1.38
36	1	1483	G	N3-C4	-6.56	1.30	1.35
37	3	27	A	N7-C5	-6.56	1.35	1.39
85	5	2119	A	N9-C4	-6.56	1.33	1.37
37	7	32	U	C2-N3	-6.56	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
52	m6	155	LYS	CD-CE	6.56	1.67	1.51
36	1	397	A	C6-N1	-6.56	1.30	1.35
85	5	108	A	C6-N1	-6.56	1.30	1.35
85	5	836	A	N3-C4	-6.56	1.30	1.34
85	5	994	G	C5-C4	-6.56	1.33	1.38
85	5	1352	A	N3-C4	6.56	1.38	1.34
85	5	2371	G	N9-C4	-6.56	1.32	1.38
85	5	3194	C	N1-C2	6.56	1.46	1.40
1	2	848	A	N9-C4	-6.56	1.33	1.37
51	M5	132	VAL	CB-CG2	-6.56	1.39	1.52
85	5	1534	A	N9-C8	-6.56	1.32	1.37
36	1	2706	G	C5-C6	-6.55	1.35	1.42
36	1	2939	G	N9-C8	-6.55	1.33	1.37
80	6	635	A	N9-C4	-6.55	1.33	1.37
85	5	2404	A	N9-C8	6.55	1.43	1.37
36	1	751	A	N3-C4	-6.55	1.30	1.34
36	1	1349	G	N9-C4	6.55	1.43	1.38
38	4	138	A	C5-C4	-6.55	1.34	1.38
36	1	902	G	N7-C5	-6.55	1.35	1.39
85	5	1357	G	N3-C4	-6.55	1.30	1.35
85	5	2400	G	C5-C4	-6.55	1.33	1.38
36	1	214	G	N9-C4	-6.55	1.32	1.38
85	5	391	A	C6-N1	-6.55	1.30	1.35
85	5	510	G	N1-C2	-6.55	1.32	1.37
36	1	2174	G	C6-N1	-6.55	1.34	1.39
38	8	55	U	C2-O2	6.55	1.28	1.22
80	6	327	U	N1-C2	6.55	1.44	1.38
85	5	89	A	C5-C6	-6.55	1.35	1.41
85	5	907	G	N1-C2	-6.55	1.32	1.37
85	5	1657	C	N1-C6	-6.55	1.33	1.37
36	1	1143	A	C5-C4	-6.54	1.34	1.38
36	1	2657	A	N3-C4	-6.54	1.30	1.34
85	5	1085	A	C5-C6	-6.54	1.35	1.41
85	5	3212	C	N1-C6	-6.54	1.33	1.37
36	1	63	A	N7-C5	-6.54	1.35	1.39
36	1	803	C	N1-C6	-6.54	1.33	1.37
36	1	2957	G	C6-N1	-6.54	1.34	1.39
38	4	31	G	C5-C4	-6.54	1.33	1.38
85	5	2194	G	N1-C2	-6.54	1.32	1.37
38	8	79	A	C6-N1	6.54	1.40	1.35
36	1	87	U	C2-O2	-6.54	1.16	1.22
36	1	988	U	N1-C6	-6.54	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	4	43	A	C6-N6	-6.54	1.28	1.33
85	5	1203	A	N7-C5	-6.54	1.35	1.39
85	5	1296	C	C2-O2	-6.54	1.18	1.24
85	5	2828	G	N9-C4	-6.54	1.32	1.38
85	5	2987	A	N7-C5	-6.54	1.35	1.39
38	8	36	G	N3-C4	-6.54	1.30	1.35
38	8	39	G	N3-C4	-6.54	1.30	1.35
38	8	79	A	N9-C4	6.54	1.41	1.37
1	2	1746	A	N9-C4	-6.54	1.33	1.37
36	1	2345	A	C6-N1	-6.54	1.30	1.35
85	5	637	C	N1-C6	-6.54	1.33	1.37
85	5	2244	A	C5-C4	-6.54	1.34	1.38
85	5	2690	G	N3-C4	-6.54	1.30	1.35
85	5	3327	G	N3-C4	-6.54	1.30	1.35
1	2	1094	G	N9-C4	-6.54	1.32	1.38
36	1	2670	G	N3-C4	-6.54	1.30	1.35
36	1	3015	G	N9-C4	-6.54	1.32	1.38
36	1	115	A	N9-C8	-6.54	1.32	1.37
36	1	1521	G	N7-C5	-6.54	1.35	1.39
36	1	2140	U	C2-N3	-6.54	1.33	1.37
85	5	1145	G	N1-C2	-6.54	1.32	1.37
36	1	2948	C	C2-N3	-6.53	1.30	1.35
38	4	131	A	C5-C4	-6.53	1.34	1.38
80	6	635	A	C6-N1	-6.53	1.30	1.35
85	5	1648	A	C5-C6	-6.53	1.35	1.41
36	1	1306	G	N9-C8	-6.53	1.33	1.37
36	1	1428	A	N9-C4	-6.53	1.33	1.37
36	1	2718	U	C2-N3	-6.53	1.33	1.37
85	5	518	G	N3-C4	-6.53	1.30	1.35
36	1	108	A	N3-C4	-6.53	1.30	1.34
36	1	299	G	C5-C6	-6.53	1.35	1.42
36	1	602	A	N9-C4	6.53	1.41	1.37
36	1	2642	A	C6-N1	-6.53	1.30	1.35
36	1	3213	A	N7-C5	-6.53	1.35	1.39
80	6	1033	C	N1-C6	-6.53	1.33	1.37
85	5	222	A	C6-N1	-6.53	1.30	1.35
85	5	1309	U	C2-O2	-6.53	1.16	1.22
85	5	1575	A	N9-C4	6.53	1.41	1.37
85	5	1849	C	N3-C4	-6.53	1.29	1.33
85	5	1851	G	N9-C4	-6.53	1.32	1.38
85	5	2851	A	C5-C6	-6.53	1.35	1.41
85	5	2907	G	N7-C5	-6.53	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1952	G	C5-C4	6.53	1.43	1.38
36	1	2378	C	C4-C5	-6.53	1.37	1.43
85	5	1867	A	C5-C4	-6.53	1.34	1.38
85	5	1927	G	C5-C4	-6.53	1.33	1.38
36	1	943	U	C2-O2	-6.53	1.16	1.22
36	1	3069	G	N7-C5	6.53	1.43	1.39
80	6	796	A	C6-N1	-6.53	1.30	1.35
85	5	417	A	N3-C4	-6.53	1.30	1.34
85	5	599	C	C2-O2	-6.53	1.18	1.24
85	5	815	G	N9-C8	-6.53	1.33	1.37
85	5	1340	G	N9-C8	-6.53	1.33	1.37
85	5	1354	G	N9-C8	6.53	1.42	1.37
85	5	2399	A	N3-C4	-6.53	1.30	1.34
38	8	104	A	N9-C4	-6.53	1.33	1.37
69	o3	101	PHE	CD1-CE1	-6.53	1.26	1.39
8	S6	155	ASP	CB-CG	6.53	1.65	1.51
36	1	43	A	C2-N3	-6.53	1.27	1.33
36	1	743	C	C2-N3	-6.53	1.30	1.35
36	1	1536	G	N1-C2	-6.53	1.32	1.37
38	4	38	U	C2-O2	-6.53	1.16	1.22
85	5	1479	U	N3-C4	-6.53	1.32	1.38
37	7	65	G	N7-C5	-6.53	1.35	1.39
36	1	303	G	C4'-C3'	-6.52	1.46	1.53
52	M6	40	GLU	CG-CD	6.52	1.61	1.51
85	5	1302	A	N3-C4	-6.52	1.30	1.34
85	5	2183	A	N9-C4	-6.52	1.33	1.37
85	5	3103	A	C5-C6	-6.52	1.35	1.41
85	5	3330	A	C5-C4	-6.52	1.34	1.38
36	1	1133	A	C5-C4	-6.52	1.34	1.38
36	1	1511	U	C2-O2	-6.52	1.16	1.22
36	1	2341	A	N7-C5	-6.52	1.35	1.39
80	6	1385	G	C8-N7	6.52	1.34	1.30
85	5	999	G	N9-C8	-6.52	1.33	1.37
36	1	2138	A	N7-C5	-6.52	1.35	1.39
36	1	2161	G	C5-C4	-6.52	1.33	1.38
80	6	998	A	N3-C4	-6.52	1.30	1.34
85	5	1530	U	N1-C2	-6.52	1.32	1.38
85	5	2722	U	N1-C2	-6.52	1.32	1.38
36	1	885	U	C4-C5	-6.52	1.37	1.43
36	1	2286	U	N1-C2	-6.52	1.32	1.38
36	1	2985	C	N3-C4	-6.52	1.29	1.33
36	1	3076	C	N1-C6	-6.52	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	3245	A	C5-C6	-6.52	1.35	1.41
1	2	217	A	N3-C4	6.52	1.38	1.34
36	1	897	U	N3-C4	-6.52	1.32	1.38
36	1	968	G	N7-C5	-6.52	1.35	1.39
36	1	2598	G	N3-C4	-6.52	1.30	1.35
36	1	2838	A	N3-C4	-6.52	1.30	1.34
36	1	2861	U	N3-C4	-6.52	1.32	1.38
36	1	2965	U	C2-O2	-6.52	1.16	1.22
36	1	3375	A	N3-C4	-6.52	1.30	1.34
85	5	90	C	N1-C2	-6.52	1.33	1.40
85	5	1592	G	C5-C4	6.52	1.43	1.38
61	N5	141	TYR	CD1-CE1	-6.52	1.29	1.39
85	5	2262	A	C5-C4	-6.52	1.34	1.38
85	5	3003	G	C2-N3	-6.52	1.27	1.32
36	1	1479	U	N1-C6	-6.51	1.32	1.38
85	5	3035	A	C5-C6	-6.51	1.35	1.41
36	1	425	G	N3-C4	-6.51	1.30	1.35
69	o3	101	PHE	CD2-CE2	-6.51	1.26	1.39
36	1	1400	G	N3-C4	-6.51	1.30	1.35
36	1	2404	A	N9-C4	6.51	1.41	1.37
36	1	2440	G	C5-C6	6.51	1.48	1.42
36	1	2818	U	C5-C6	-6.51	1.28	1.34
36	1	3261	C	N3-C4	-6.51	1.29	1.33
1	2	305	C	N1-C6	-6.51	1.33	1.37
36	1	656	A	C6-N1	-6.51	1.30	1.35
36	1	1094	U	C5-C6	6.51	1.40	1.34
36	1	1458	U	N1-C6	-6.51	1.32	1.38
80	6	1200	G	C6-N1	6.51	1.44	1.39
85	5	295	A	N7-C5	-6.51	1.35	1.39
85	5	498	A	C5-C6	-6.51	1.35	1.41
85	5	3206	C	C2-N3	-6.51	1.30	1.35
36	1	650	C	N1-C2	-6.51	1.33	1.40
80	6	210	A	N3-C4	-6.51	1.30	1.34
80	6	1712	A	N3-C4	6.51	1.38	1.34
38	8	13	A	C5-C4	-6.51	1.34	1.38
36	1	609	G	C5-C6	-6.51	1.35	1.42
36	1	2287	C	C2-O2	6.51	1.30	1.24
36	1	2913	C	N3-C4	-6.51	1.29	1.33
68	O2	28	VAL	CB-CG2	-6.51	1.39	1.52
80	6	437	A	N3-C4	-6.51	1.30	1.34
85	5	346	C	N3-C4	-6.51	1.29	1.33
38	8	55	U	C2-N3	6.50	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2	217	A	N9-C4	6.50	1.41	1.37
36	1	591	G	N7-C5	-6.50	1.35	1.39
36	1	1157	G	N3-C4	-6.50	1.30	1.35
36	1	2938	G	C5-C4	-6.50	1.33	1.38
85	5	1664	G	C5-C4	-6.50	1.33	1.38
36	1	1490	A	C6-N1	-6.50	1.30	1.35
36	1	1581	C	N1-C6	6.50	1.41	1.37
36	1	1880	U	N1-C6	-6.50	1.32	1.38
85	5	354	U	N1-C6	-6.50	1.32	1.38
85	5	2618	G	N1-C2	-6.50	1.32	1.37
1	2	331	A	N9-C4	-6.50	1.33	1.37
85	5	371	G	N3-C4	-6.50	1.30	1.35
85	5	650	C	C2-N3	-6.50	1.30	1.35
85	5	980	A	N3-C4	6.50	1.38	1.34
85	5	3303	G	N1-C2	-6.50	1.32	1.37
1	2	355	G	C5-C4	-6.50	1.33	1.38
36	1	2185	G	C6-N1	-6.50	1.35	1.39
85	5	1116	G	C6-N1	-6.50	1.35	1.39
85	5	2327	U	C2-O2	6.50	1.28	1.22
36	1	1026	A	N9-C4	6.50	1.41	1.37
36	1	1362	G	N9-C4	-6.50	1.32	1.38
36	1	2994	A	C6-N1	-6.50	1.31	1.35
80	6	1070	C	C4-C5	6.50	1.48	1.43
85	5	194	U	C2-O2	-6.50	1.16	1.22
85	5	899	U	N1-C2	-6.50	1.32	1.38
85	5	1197	A	N3-C4	-6.50	1.30	1.34
85	5	2316	G	N9-C8	-6.50	1.33	1.37
85	5	2351	U	N3-C4	-6.50	1.32	1.38
38	8	68	G	N9-C8	-6.50	1.33	1.37
36	1	585	A	C2-N3	-6.49	1.27	1.33
36	1	761	A	N9-C4	-6.49	1.33	1.37
36	1	1327	C	N3-C4	-6.49	1.29	1.33
85	5	885	U	N1-C2	-6.49	1.32	1.38
85	5	950	G	C5-C4	-6.49	1.33	1.38
1	2	307	G	N9-C8	-6.49	1.33	1.37
36	1	864	G	N9-C4	-6.49	1.32	1.38
80	6	496	G	N3-C4	6.49	1.40	1.35
36	1	2645	G	N9-C4	-6.49	1.32	1.38
39	L2	98	VAL	CB-CG1	-6.49	1.39	1.52
80	6	1547	A	N9-C4	-6.49	1.33	1.37
85	5	1011	A	C6-N1	-6.49	1.31	1.35
85	5	3151	U	N1-C2	-6.49	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	862	U	N1-C6	-6.49	1.32	1.38
36	1	1082	U	C2-N3	-6.49	1.33	1.37
36	1	2604	U	C2-N3	-6.49	1.33	1.37
85	5	822	G	C6-N1	-6.49	1.35	1.39
85	5	3003	G	C5-C4	-6.49	1.33	1.38
36	1	2640	A	C6-N1	-6.49	1.31	1.35
85	5	1667	A	N9-C4	-6.49	1.33	1.37
36	1	2412	G	C6-N1	-6.49	1.35	1.39
85	5	2965	U	N1-C2	-6.49	1.32	1.38
85	5	2957	G	N9-C8	-6.48	1.33	1.37
36	1	2215	A	N7-C5	-6.48	1.35	1.39
36	1	2811	A	C6-N6	-6.48	1.28	1.33
80	6	1521	G	N7-C5	-6.48	1.35	1.39
85	5	1696	A	N9-C4	-6.48	1.33	1.37
38	8	80	A	C5-C6	6.48	1.46	1.41
1	2	356	G	N7-C5	-6.48	1.35	1.39
36	1	313	A	C5-C4	-6.48	1.34	1.38
36	1	333	G	N9-C4	-6.48	1.32	1.38
36	1	1859	A	N9-C8	-6.48	1.32	1.37
80	6	1300	A	N9-C4	-6.48	1.33	1.37
85	5	604	G	C6-N1	6.48	1.44	1.39
85	5	1128	U	N1-C2	-6.48	1.32	1.38
85	5	2255	A	N9-C4	-6.48	1.33	1.37
85	5	3097	C	C4-C5	-6.48	1.37	1.43
36	1	16	A	N9-C4	-6.48	1.33	1.37
80	6	1137	A	N3-C4	-6.48	1.30	1.34
85	5	3107	U	C5-C6	-6.48	1.28	1.34
36	1	1823	A	N7-C5	-6.48	1.35	1.39
36	1	2525	G	N7-C5	-6.48	1.35	1.39
85	5	321	C	N1-C6	-6.48	1.33	1.37
85	5	1126	G	C5-C4	-6.48	1.33	1.38
36	1	1180	A	C6-N1	-6.48	1.31	1.35
36	1	2317	A	C6-N1	-6.47	1.31	1.35
80	6	1729	C	C2-O2	-6.47	1.18	1.24
85	5	80	G	N7-C5	-6.47	1.35	1.39
85	5	903	U	C2-N3	-6.47	1.33	1.37
85	5	3010	U	N1-C2	-6.47	1.32	1.38
85	5	3200	G	C2-N3	-6.47	1.27	1.32
53	m7	150	VAL	CB-CG1	-6.47	1.39	1.52
36	1	985	U	N1-C2	-6.47	1.32	1.38
36	1	1472	U	N1-C6	-6.47	1.32	1.38
36	1	2190	U	N3-C4	-6.47	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	350	C	C2-O2	-6.47	1.18	1.24
85	5	646	A	C6-N1	-6.47	1.31	1.35
85	5	1134	G	C6-N1	-6.47	1.35	1.39
85	5	2819	A	C6-N1	-6.47	1.31	1.35
85	5	2376	G	N3-C4	-6.47	1.30	1.35
72	o6	46	GLU	CG-CD	6.47	1.61	1.51
36	1	1340	G	C5-C4	-6.47	1.33	1.38
38	4	15	G	N1-C2	-6.47	1.32	1.37
80	6	46	A	C5-C6	-6.47	1.35	1.41
80	6	1346	A	N3-C4	6.47	1.38	1.34
36	1	2972	G	C6-N1	6.47	1.44	1.39
80	6	1113	A	N3-C4	-6.47	1.30	1.34
85	5	1311	G	N3-C4	-6.47	1.30	1.35
85	5	2294	U	N1-C6	-6.47	1.32	1.38
85	5	2300	G	C5-C4	-6.47	1.33	1.38
36	1	1514	G	N7-C5	-6.47	1.35	1.39
85	5	1059	G	N9-C8	-6.47	1.33	1.37
85	5	2967	A	N3-C4	-6.47	1.30	1.34
36	1	2419	A	N9-C4	-6.46	1.33	1.37
80	6	1126	G	N7-C5	-6.46	1.35	1.39
85	5	907	G	C2'-C1'	-6.46	1.46	1.53
85	5	1130	A	C5-C4	-6.46	1.34	1.38
85	5	2644	C	C2-O2	-6.46	1.18	1.24
85	5	2757	U	N1-C6	-6.46	1.32	1.38
36	1	1798	A	N9-C4	-6.46	1.33	1.37
85	5	2665	U	C4-C5	-6.46	1.37	1.43
36	1	423	A	N7-C5	-6.46	1.35	1.39
36	1	1350	A	N9-C4	6.46	1.41	1.37
36	1	1380	G	N9-C4	-6.46	1.32	1.38
36	1	3060	C	N1-C6	-6.46	1.33	1.37
80	6	1213	G	C6-N1	6.46	1.44	1.39
85	5	1018	G	N7-C5	6.46	1.43	1.39
85	5	1507	G	N7-C5	-6.46	1.35	1.39
44	17	235	PHE	CD1-CE1	-6.46	1.26	1.39
36	1	2187	G	N7-C5	-6.46	1.35	1.39
80	6	1117	U	C4-O4	6.46	1.28	1.23
85	5	956	U	N1-C2	-6.46	1.32	1.38
85	5	2515	A	N7-C5	-6.46	1.35	1.39
85	5	2873	U	N1-C6	-6.46	1.32	1.38
1	2	586	G	N9-C4	6.46	1.43	1.38
80	6	395	U	N1-C6	-6.46	1.32	1.38
80	6	456	A	N3-C4	-6.46	1.30	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	658	G	C5-C6	-6.46	1.35	1.42
85	5	677	A	C6-N1	-6.46	1.31	1.35
85	5	2181	C	N1-C2	-6.46	1.33	1.40
85	5	2636	A	C5-C4	-6.46	1.34	1.38
85	5	2919	A	N9-C8	-6.46	1.32	1.37
36	1	1429	G	C2-N2	-6.46	1.28	1.34
85	5	189	G	C5-C4	-6.46	1.33	1.38
85	5	2764	C	C4-C5	-6.46	1.37	1.43
38	8	1	A	N9-C8	-6.46	1.32	1.37
85	5	1350	A	O3'-P	6.46	1.68	1.61
36	1	323	A	N9-C8	-6.45	1.32	1.37
36	1	2188	A	N3-C4	-6.45	1.30	1.34
69	O3	16	TYR	CD2-CE2	-6.45	1.29	1.39
80	6	331	A	N7-C5	-6.45	1.35	1.39
80	6	403	G	C5-C6	-6.45	1.35	1.42
80	6	770	A	N9-C4	-6.45	1.33	1.37
80	6	1124	A	C5-C4	-6.45	1.34	1.38
85	5	1613	A	C5-C6	-6.45	1.35	1.41
36	1	1741	A	C6-N1	-6.45	1.31	1.35
85	5	1313	G	N7-C5	-6.45	1.35	1.39
36	1	1370	G	C6-N1	-6.45	1.35	1.39
80	6	1122	G	N9-C4	-6.45	1.32	1.38
85	5	510	G	N3-C4	-6.45	1.30	1.35
85	5	1418	A	N3-C4	-6.45	1.30	1.34
85	5	2352	A	N3-C4	-6.45	1.30	1.34
85	5	2984	C	N3-C4	-6.45	1.29	1.33
36	1	1451	C	N1-C2	-6.45	1.33	1.40
46	L9	135	GLU	CG-CD	6.45	1.61	1.51
85	5	2145	A	C6-N6	-6.45	1.28	1.33
85	5	3084	C	N1-C2	-6.45	1.33	1.40
36	1	862	U	C2-N3	-6.45	1.33	1.37
36	1	2793	G	C2-N3	-6.45	1.27	1.32
85	5	213	A	C6-N1	-6.45	1.31	1.35
85	5	3314	A	N9-C4	-6.45	1.33	1.37
36	1	905	U	C2-O2	-6.45	1.16	1.22
36	1	2381	G	C5-C6	-6.45	1.35	1.42
36	1	3378	C	N1-C6	-6.45	1.33	1.37
38	8	68	G	N7-C5	-6.45	1.35	1.39
36	1	701	G	N3-C4	-6.44	1.30	1.35
36	1	765	C	N3-C4	6.44	1.38	1.33
36	1	876	A	C6-N1	-6.44	1.31	1.35
36	1	2187	G	C2-N3	-6.44	1.27	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2907	G	N7-C5	-6.44	1.35	1.39
85	5	1318	A	N3-C4	-6.44	1.30	1.34
85	5	3083	G	C5-C4	-6.44	1.33	1.38
36	1	953	G	N3-C4	-6.44	1.30	1.35
36	1	996	A	N3-C4	-6.44	1.30	1.34
85	5	864	G	N7-C5	-6.44	1.35	1.39
37	7	99	G	C5-C4	-6.44	1.33	1.38
36	1	1151	U	C4-O4	6.44	1.28	1.23
36	1	1327	C	N1-C6	-6.44	1.33	1.37
36	1	1729	A	N3-C4	-6.44	1.30	1.34
36	1	3273	A	N9-C4	-6.44	1.33	1.37
38	4	144	G	N3-C4	-6.44	1.30	1.35
85	5	2626	A	C6-N1	-6.44	1.31	1.35
85	5	2818	U	N1-C6	-6.44	1.32	1.38
36	1	584	G	N3-C4	-6.44	1.30	1.35
80	6	268	C	N1-C6	-6.44	1.33	1.37
85	5	834	U	C2-N3	-6.44	1.33	1.37
36	1	1169	A	C6-N1	-6.44	1.31	1.35
36	1	1664	G	N3-C4	-6.44	1.30	1.35
36	1	1814	A	C6-N1	6.44	1.40	1.35
36	1	2610	G	C5-C6	-6.44	1.35	1.42
38	4	82	U	C2-N3	6.44	1.42	1.37
80	6	937	C	N1-C6	-6.44	1.33	1.37
85	5	1875	G	N7-C5	-6.44	1.35	1.39
85	5	2383	C	N1-C6	-6.44	1.33	1.37
85	5	2548	C	N1-C6	6.44	1.41	1.37
36	1	627	U	C2-N3	6.43	1.42	1.37
44	17	86	VAL	CB-CG1	-6.43	1.39	1.52
36	1	602	A	N3-C4	6.43	1.38	1.34
85	5	1126	G	N7-C5	-6.43	1.35	1.39
85	5	1399	A	C2-N3	-6.43	1.27	1.33
85	5	2189	U	N1-C6	-6.43	1.32	1.38
36	1	56	G	C6-O6	-6.43	1.18	1.24
36	1	1341	U	N1-C2	-6.43	1.32	1.38
36	1	1373	A	N9-C4	-6.43	1.33	1.37
36	1	3025	C	C5-C6	-6.43	1.29	1.34
85	5	425	G	C6-N1	-6.43	1.35	1.39
85	5	2541	U	N1-C2	6.43	1.44	1.38
38	8	155	A	N9-C4	6.43	1.41	1.37
36	1	66	A	C5-C4	-6.43	1.34	1.38
80	6	1730	A	N9-C4	-6.43	1.33	1.37
85	5	1464	G	N9-C4	-6.43	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2	780	G	C5-C6	-6.43	1.35	1.42
36	1	1195	A	N9-C8	-6.43	1.32	1.37
36	1	2967	A	C6-N1	-6.43	1.31	1.35
37	3	22	A	N9-C4	6.43	1.41	1.37
38	4	36	G	N9-C4	-6.43	1.32	1.38
80	6	279	G	C6-N1	6.43	1.44	1.39
85	5	884	A	C5-C6	-6.43	1.35	1.41
36	1	1673	G	N9-C8	-6.42	1.33	1.37
36	1	2111	G	N9-C4	-6.42	1.32	1.38
36	1	2128	C	N1-C2	-6.42	1.33	1.40
85	5	2195	C	N3-C4	-6.42	1.29	1.33
85	5	2680	A	C6-N1	-6.42	1.31	1.35
36	1	273	A	N3-C4	-6.42	1.30	1.34
80	6	327	U	C2-N3	6.42	1.42	1.37
80	6	1537	C	N3-C4	6.42	1.38	1.33
85	5	2813	A	N9-C8	-6.42	1.32	1.37
36	1	430	U	C2-O2	-6.42	1.16	1.22
36	1	2381	G	C5-C4	-6.42	1.33	1.38
36	1	2760	C	N1-C2	-6.42	1.33	1.40
59	N3	79	VAL	CB-CG2	-6.42	1.39	1.52
85	5	789	A	N9-C8	-6.42	1.32	1.37
85	5	837	A	N9-C8	-6.42	1.32	1.37
85	5	858	A	C5-C6	-6.42	1.35	1.41
85	5	1515	A	C5-C6	-6.42	1.35	1.41
36	1	2855	U	N1-C6	-6.42	1.32	1.38
80	6	1772	C	N1-C6	-6.42	1.33	1.37
36	1	1399	A	N9-C4	-6.42	1.33	1.37
36	1	3046	A	N3-C4	-6.42	1.30	1.34
85	5	2158	A	N3-C4	-6.42	1.30	1.34
85	5	2876	C	N1-C6	-6.42	1.33	1.37
36	1	1734	G	N9-C4	-6.42	1.32	1.38
85	5	430	U	N1-C6	-6.42	1.32	1.38
85	5	2416	U	C4-O4	6.42	1.28	1.23
36	1	1047	A	C5-C6	-6.42	1.35	1.41
85	5	2132	C	C2-N3	-6.42	1.30	1.35
36	1	979	U	N1-C2	6.41	1.44	1.38
36	1	1444	G	C5-C4	-6.41	1.33	1.38
36	1	2798	C	C4-C5	-6.41	1.37	1.43
80	6	397	A	N9-C4	-6.41	1.34	1.37
85	5	586	C	C2-N3	-6.41	1.30	1.35
85	5	644	G	C6-O6	6.41	1.29	1.24
85	5	1470	U	N1-C6	-6.41	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	3007	U	C4-O4	-6.41	1.18	1.23
85	5	1673	G	C6-N1	-6.41	1.35	1.39
85	5	2303	A	N3-C4	-6.41	1.31	1.34
85	5	2692	A	N3-C4	-6.41	1.31	1.34
36	1	2550	U	N3-C4	-6.41	1.32	1.38
80	6	1653	C	N1-C2	-6.41	1.33	1.40
85	5	997	A	N3-C4	-6.41	1.31	1.34
85	5	2193	U	C4-O4	-6.41	1.18	1.23
85	5	2734	A	N9-C4	-6.41	1.34	1.37
85	5	3002	C	N1-C6	-6.41	1.33	1.37
85	5	3309	G	C6-N1	-6.41	1.35	1.39
37	7	6	C	C2-O2	-6.41	1.18	1.24
36	1	2719	U	N1-C6	-6.41	1.32	1.38
85	5	645	A	N1-C2	-6.41	1.28	1.34
85	5	2569	A	C6-N1	6.41	1.40	1.35
85	5	2862	U	N3-C4	-6.41	1.32	1.38
85	5	3271	G	N1-C2	-6.41	1.32	1.37
36	1	426	G	N9-C8	-6.41	1.33	1.37
36	1	969	C	N1-C2	-6.41	1.33	1.40
36	1	2840	C	N3-C4	-6.41	1.29	1.33
85	5	1847	A	N9-C4	-6.41	1.34	1.37
56	n0	17	GLU	CB-CG	6.41	1.64	1.52
36	1	942	U	N1-C6	-6.41	1.32	1.38
36	1	1178	G	N3-C4	-6.41	1.30	1.35
36	1	1352	A	C5-C6	6.41	1.46	1.41
36	1	2873	U	C2-N3	-6.41	1.33	1.37
85	5	567	G	N9-C4	-6.41	1.32	1.38
36	1	863	C	C2-O2	-6.40	1.18	1.24
36	1	3026	G	N7-C5	-6.40	1.35	1.39
85	5	636	C	C4-C5	-6.40	1.37	1.43
85	5	2173	U	N1-C6	-6.40	1.32	1.38
36	1	914	A	N9-C8	-6.40	1.32	1.37
36	1	3078	U	C4-O4	6.40	1.28	1.23
80	6	304	U	C2-N3	-6.40	1.33	1.37
36	1	427	C	C2-O2	-6.40	1.18	1.24
36	1	1598	G	N3-C4	-6.40	1.30	1.35
36	1	3054	U	C2-O2	-6.40	1.16	1.22
37	7	46	A	N7-C5	-6.40	1.35	1.39
36	1	1145	G	N7-C5	-6.40	1.35	1.39
36	1	2334	U	N1-C6	-6.40	1.32	1.38
85	5	45	A	C5-C6	-6.40	1.35	1.41
85	5	1135	A	N9-C8	-6.40	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1809	A	C6-N1	-6.40	1.31	1.35
85	5	2114	C	C4-C5	-6.40	1.37	1.43
36	1	891	G	N9-C4	-6.40	1.32	1.38
36	1	1371	G	C8-N7	-6.40	1.27	1.30
36	1	1397	C	N1-C2	-6.40	1.33	1.40
36	1	2157	G	N7-C5	-6.40	1.35	1.39
85	5	804	C	C4-C5	-6.40	1.37	1.43
85	5	1791	C	N1-C6	-6.40	1.33	1.37
37	7	110	G	N9-C8	-6.40	1.33	1.37
80	6	95	G	C5-C6	6.40	1.48	1.42
80	6	1768	G	N3-C4	-6.40	1.30	1.35
85	5	38	U	C2-N3	-6.40	1.33	1.37
85	5	657	A	N3-C4	-6.40	1.31	1.34
85	5	755	A	N9-C4	-6.40	1.34	1.37
85	5	873	C	N1-C6	-6.40	1.33	1.37
85	5	923	C	N3-C4	-6.40	1.29	1.33
85	5	1311	G	N9-C8	-6.40	1.33	1.37
36	1	317	A	N3-C4	-6.39	1.31	1.34
36	1	1529	A	N3-C4	-6.39	1.31	1.34
36	1	1873	U	C2-N3	-6.39	1.33	1.37
36	1	3109	G	N1-C2	-6.39	1.32	1.37
85	5	1538	G	N3-C4	-6.39	1.30	1.35
80	6	1537	C	N1-C6	6.39	1.41	1.37
85	5	1551	C	N1-C6	-6.39	1.33	1.37
85	5	1946	A	N7-C5	-6.39	1.35	1.39
85	5	2733	A	C5-C4	-6.39	1.34	1.38
36	1	299	G	N9-C4	-6.39	1.32	1.38
36	1	345	G	N7-C5	-6.39	1.35	1.39
36	1	3276	G	N3-C4	6.39	1.40	1.35
80	6	973	A	N9-C8	-6.39	1.32	1.37
85	5	865	U	N1-C2	-6.39	1.32	1.38
49	m3	33	VAL	CB-CG1	-6.39	1.39	1.52
36	1	649	A	C5-C6	-6.39	1.35	1.41
36	1	663	C	C4-C5	-6.39	1.37	1.43
36	1	1005	G	N9-C8	-6.39	1.33	1.37
85	5	560	G	C5-C4	-6.39	1.33	1.38
85	5	2946	A	N3-C4	-6.39	1.31	1.34
37	7	46	A	N3-C4	-6.39	1.31	1.34
85	5	2976	A	N9-C8	-6.39	1.32	1.37
36	1	64	G	N3-C4	-6.39	1.30	1.35
36	1	3352	U	C2-N3	6.39	1.42	1.37
38	4	57	C	C2-N3	-6.39	1.30	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	375	A	N9-C4	-6.39	1.34	1.37
85	5	2909	U	N3-C4	-6.39	1.32	1.38
36	1	2968	G	N7-C5	-6.38	1.35	1.39
36	1	3261	C	C2-O2	-6.38	1.18	1.24
38	4	104	A	C6-N1	-6.38	1.31	1.35
36	1	2964	G	N9-C4	-6.38	1.32	1.38
85	5	105	C	N1-C2	-6.38	1.33	1.40
80	6	1086	A	C5-C4	-6.38	1.34	1.38
36	1	313	A	N7-C5	-6.38	1.35	1.39
36	1	1847	A	N3-C4	-6.38	1.31	1.34
38	4	108	C	N1-C6	-6.38	1.33	1.37
85	5	422	A	C6-N1	-6.38	1.31	1.35
85	5	2747	A	N9-C4	-6.38	1.34	1.37
85	5	2939	G	N9-C8	-6.38	1.33	1.37
85	5	3248	C	N1-C2	-6.38	1.33	1.40
36	1	652	G	C8-N7	-6.38	1.27	1.30
36	1	2761	G	N9-C4	-6.38	1.32	1.38
80	6	295	A	N3-C4	-6.38	1.31	1.34
80	6	343	C	N1-C6	-6.38	1.33	1.37
85	5	2173	U	N3-C4	-6.38	1.32	1.38
85	5	2761	G	C5-C6	-6.38	1.35	1.42
85	5	2876	C	C2-O2	-6.38	1.18	1.24
85	5	2913	C	N1-C2	-6.38	1.33	1.40
36	1	1163	A	N3-C4	-6.38	1.31	1.34
36	1	114	A	C5-C6	-6.38	1.35	1.41
36	1	1477	A	C5-C6	-6.38	1.35	1.41
36	1	2300	G	N7-C5	-6.38	1.35	1.39
85	5	2395	G	N9-C4	-6.38	1.32	1.38
1	2	1538	A	C6-N1	-6.37	1.31	1.35
36	1	289	A	N3-C4	-6.37	1.31	1.34
36	1	2525	G	C6-N1	-6.37	1.35	1.39
80	6	403	G	N3-C4	-6.37	1.30	1.35
80	6	574	G	N9-C4	-6.37	1.32	1.38
85	5	912	G	C5-C4	-6.37	1.33	1.38
85	5	987	U	C2-O2	-6.37	1.16	1.22
85	5	996	A	N9-C8	-6.37	1.32	1.37
85	5	1605	A	C5-C4	-6.37	1.34	1.38
85	5	2371	G	N3-C4	-6.37	1.30	1.35
85	5	2742	C	C5-C6	-6.37	1.29	1.34
85	5	3088	G	C6-N1	-6.37	1.35	1.39
38	8	97	A	N3-C4	-6.37	1.31	1.34
36	1	1631	C	C2-N3	-6.37	1.30	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1753	G	C5-C6	-6.37	1.35	1.42
80	6	33	U	C2-N3	6.37	1.42	1.37
36	1	726	G	N3-C4	-6.37	1.30	1.35
36	1	2295	A	C5-C6	-6.37	1.35	1.41
36	1	2519	A	C5-C4	6.37	1.43	1.38
80	6	333	A	N7-C5	-6.37	1.35	1.39
85	5	2548	C	N1-C2	6.37	1.46	1.40
85	5	3333	G	N3-C4	-6.37	1.30	1.35
36	1	1366	A	C5-C6	-6.37	1.35	1.41
36	1	3281	U	C2-N3	6.37	1.42	1.37
85	5	1544	G	N9-C8	-6.37	1.33	1.37
85	5	2287	C	N1-C2	-6.37	1.33	1.40
85	5	2363	A	C5-C4	-6.37	1.34	1.38
37	7	95	A	N7-C5	-6.37	1.35	1.39
36	1	307	A	N1-C2	-6.37	1.28	1.34
85	5	1441	G	P-OP1	6.37	1.59	1.49
85	5	2344	U	C2-O2	-6.37	1.16	1.22
85	5	2982	A	N9-C8	-6.37	1.32	1.37
36	1	1311	G	C5-C4	-6.36	1.33	1.38
36	1	1586	G	N7-C5	-6.36	1.35	1.39
36	1	2136	C	N1-C6	-6.36	1.33	1.37
85	5	2506	U	N1-C2	6.36	1.44	1.38
85	5	988	U	N1-C6	-6.36	1.32	1.38
85	5	1108	U	N3-C4	-6.36	1.32	1.38
85	5	2987	A	C6-N1	-6.36	1.31	1.35
36	1	323	A	C5-C4	-6.36	1.34	1.38
36	1	365	A	C6-N1	-6.36	1.31	1.35
85	5	1648	A	N3-C4	-6.36	1.31	1.34
36	1	1869	C	N1-C6	-6.36	1.33	1.37
38	4	94	C	C2-N3	-6.36	1.30	1.35
42	L5	133	GLU	CG-CD	6.36	1.61	1.51
36	1	998	A	N9-C4	-6.36	1.34	1.37
85	5	1340	G	C6-N1	-6.36	1.35	1.39
85	5	1492	G	N7-C5	-6.36	1.35	1.39
85	5	2347	U	N1-C2	-6.36	1.32	1.38
85	5	2780	A	N3-C4	-6.36	1.31	1.34
69	o3	8	TYR	CD2-CE2	-6.36	1.29	1.39
76	q0	95	VAL	CB-CG1	-6.36	1.39	1.52
79	q3	69	TYR	CD2-CE2	-6.36	1.29	1.39
1	2	1631	A	N3-C4	-6.36	1.31	1.34
36	1	1352	A	P-O5'	6.36	1.66	1.59
36	1	1446	A	N7-C5	-6.36	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1851	G	N3-C4	-6.36	1.31	1.35
85	5	2808	A	P-O5'	-6.36	1.53	1.59
85	5	2955	U	C2-N3	-6.36	1.33	1.37
85	5	3005	A	N7-C5	-6.36	1.35	1.39
38	8	76	C	P-OP1	6.36	1.59	1.49
52	m6	120	VAL	CB-CG2	-6.36	1.39	1.52
43	L6	109	GLU	CB-CG	6.35	1.64	1.52
85	5	3307	A	N7-C5	-6.35	1.35	1.39
36	1	1655	G	N9-C4	-6.35	1.32	1.38
85	5	2956	A	N3-C4	-6.35	1.31	1.34
80	6	1635	A	C5-C4	-6.35	1.34	1.38
85	5	1658	G	N3-C4	-6.35	1.31	1.35
85	5	2099	A	N7-C5	6.35	1.43	1.39
85	5	2968	G	C5-C4	-6.35	1.33	1.38
36	1	269	G	N9-C4	-6.35	1.32	1.38
36	1	865	U	C2-O2	-6.35	1.16	1.22
36	1	1534	A	C6-N1	-6.35	1.31	1.35
38	4	13	A	N3-C4	-6.35	1.31	1.34
80	6	1800	A	C5-C4	6.35	1.43	1.38
80	6	393	C	N1-C6	-6.35	1.33	1.37
80	6	607	G	N7-C5	-6.35	1.35	1.39
80	6	1651	A	N7-C5	-6.35	1.35	1.39
85	5	1330	A	N1-C2	-6.35	1.28	1.34
85	5	2220	A	N7-C5	-6.35	1.35	1.39
85	5	80	G	N9-C4	-6.35	1.32	1.38
36	1	1307	G	C2-N2	-6.34	1.28	1.34
36	1	3310	A	N9-C4	-6.34	1.34	1.37
80	6	1122	G	N3-C4	-6.34	1.31	1.35
80	6	1125	A	C6-N1	-6.34	1.31	1.35
85	5	498	A	N7-C5	-6.34	1.35	1.39
85	5	1449	A	N9-C8	-6.34	1.32	1.37
85	5	1869	C	N1-C2	-6.34	1.33	1.40
41	14	106	TRP	CB-CG	6.34	1.61	1.50
36	1	1028	U	C2-N3	6.34	1.42	1.37
36	1	1207	G	C5-C6	-6.34	1.36	1.42
36	1	2812	C	N1-C6	-6.34	1.33	1.37
36	1	2991	A	N7-C5	-6.34	1.35	1.39
80	6	65	A	N9-C4	-6.34	1.34	1.37
85	5	2977	G	C6-N1	-6.34	1.35	1.39
36	1	2153	U	C2-N3	-6.34	1.33	1.37
36	1	2873	U	C2-O2	-6.34	1.16	1.22
69	O3	103	TYR	CD2-CE2	-6.34	1.29	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	973	A	N9-C4	-6.34	1.34	1.37
85	5	1440	G	C2-N3	-6.34	1.27	1.32
85	5	3016	A	C5-C6	-6.34	1.35	1.41
85	5	990	U	C2-N3	-6.34	1.33	1.37
36	1	585	A	C6-N1	-6.34	1.31	1.35
36	1	1890	U	C4-O4	-6.34	1.18	1.23
85	5	1435	A	C5-C4	-6.34	1.34	1.38
85	5	1884	A	N7-C5	-6.34	1.35	1.39
85	5	2173	U	C2-N3	-6.34	1.33	1.37
85	5	2761	G	N9-C8	-6.34	1.33	1.37
36	1	685	G	N9-C8	-6.33	1.33	1.37
36	1	1390	A	N3-C4	-6.33	1.31	1.34
36	1	1446	A	N9-C8	-6.33	1.32	1.37
36	1	2152	A	N7-C5	-6.33	1.35	1.39
36	1	2190	U	C2-N3	-6.33	1.33	1.37
80	6	483	A	N9-C4	6.33	1.41	1.37
85	5	344	A	C6-N1	-6.33	1.31	1.35
85	5	1422	G	N7-C5	-6.33	1.35	1.39
85	5	3033	A	N3-C4	-6.33	1.31	1.34
69	o3	81	VAL	CB-CG1	-6.33	1.39	1.52
36	1	174	C	N1-C6	6.33	1.41	1.37
85	5	101	G	N3-C4	-6.33	1.31	1.35
37	7	84	A	N7-C5	-6.33	1.35	1.39
80	6	1108	G	C6-N1	-6.33	1.35	1.39
85	5	2844	C	N1-C2	-6.33	1.33	1.40
36	1	3171	U	N1-C6	6.33	1.43	1.38
52	M6	16	VAL	CB-CG2	-6.33	1.39	1.52
80	6	1131	A	C5-C4	-6.33	1.34	1.38
85	5	929	A	N3-C4	-6.33	1.31	1.34
37	3	86	U	C4-O4	-6.33	1.18	1.23
85	5	1911	A	C5-C4	-6.33	1.34	1.38
85	5	3279	A	N7-C5	6.33	1.43	1.39
42	l5	115	LEU	CA-C	6.33	1.69	1.52
85	5	1567	U	C2-N3	6.33	1.42	1.37
85	5	1912	U	N1-C6	-6.33	1.32	1.38
85	5	3209	A	N7-C5	6.33	1.43	1.39
1	2	568	G	N9-C4	-6.32	1.32	1.38
1	2	1283	A	C6-N1	-6.32	1.31	1.35
36	1	683	U	N1-C6	-6.32	1.32	1.38
36	1	1153	A	N3-C4	-6.32	1.31	1.34
36	1	1765	U	C2-O2	6.32	1.28	1.22
36	1	2329	C	N1-C6	-6.32	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	4	97	A	C6-N1	-6.32	1.31	1.35
85	5	1322	U	C4-O4	6.32	1.28	1.23
36	1	2374	C	N3-C4	-6.32	1.29	1.33
36	1	2956	A	C5-C4	-6.32	1.34	1.38
36	1	2990	G	N9-C8	-6.32	1.33	1.37
85	5	1658	G	N1-C2	-6.32	1.32	1.37
85	5	1895	A	N9-C4	-6.32	1.34	1.37
85	5	3088	G	C5-C4	-6.32	1.33	1.38
57	n1	109	VAL	CB-CG2	-6.32	1.39	1.52
36	1	1424	C	N1-C6	-6.32	1.33	1.37
36	1	2855	U	C2-O2	-6.32	1.16	1.22
85	5	405	U	N1-C2	-6.32	1.32	1.38
85	5	1350	A	N1-C2	6.32	1.40	1.34
85	5	1693	C	C2-N3	-6.32	1.30	1.35
1	2	996	A	C5-C4	-6.32	1.34	1.38
80	6	390	G	C5-C6	-6.32	1.36	1.42
80	6	1657	U	C2-O2	6.32	1.28	1.22
85	5	2282	U	N1-C2	-6.32	1.32	1.38
85	5	2940	A	C6-N1	-6.32	1.31	1.35
36	1	2382	G	C8-N7	-6.32	1.27	1.30
36	1	3129	A	C5-C6	-6.32	1.35	1.41
85	5	1326	A	N3-C4	-6.32	1.31	1.34
85	5	2272	G	C5-C4	-6.32	1.33	1.38
85	5	2855	U	C4-O4	-6.32	1.18	1.23
36	1	799	G	C6-N1	-6.32	1.35	1.39
36	1	1343	A	N9-C4	-6.32	1.34	1.37
36	1	1420	C	N1-C6	-6.32	1.33	1.37
80	6	425	A	C5-C4	-6.32	1.34	1.38
80	6	1300	A	N7-C5	-6.32	1.35	1.39
85	5	912	G	C5-C6	-6.32	1.36	1.42
85	5	2850	G	C5-C4	-6.32	1.33	1.38
85	5	2989	U	C4-O4	-6.32	1.18	1.23
36	1	1438	U	N1-C6	-6.31	1.32	1.38
80	6	143	G	C5-C6	-6.31	1.36	1.42
85	5	3040	A	N9-C8	-6.31	1.32	1.37
36	1	789	A	N3-C4	-6.31	1.31	1.34
36	1	885	U	C2-O2	-6.31	1.16	1.22
36	1	1004	U	N1-C2	-6.31	1.32	1.38
36	1	1401	A	C5-C6	-6.31	1.35	1.41
36	1	2699	G	O3'-P	-6.31	1.53	1.61
80	6	1635	A	N3-C4	-6.31	1.31	1.34
85	5	830	A	C5-C6	-6.31	1.35	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2345	A	N7-C5	-6.31	1.35	1.39
85	5	2598	G	C5-C6	-6.31	1.36	1.42
85	5	2807	U	N1-C6	-6.31	1.32	1.38
36	1	941	G	N7-C5	-6.31	1.35	1.39
36	1	1425	U	C2-O2	-6.31	1.16	1.22
36	1	3278	C	N1-C2	6.31	1.46	1.40
85	5	283	G	N9-C4	-6.31	1.32	1.38
36	1	153	U	N1-C6	-6.31	1.32	1.38
36	1	187	A	N3-C4	-6.31	1.31	1.34
36	1	756	U	N3-C4	-6.31	1.32	1.38
36	1	1184	A	C5-C4	-6.31	1.34	1.38
36	1	2569	A	N7-C5	6.31	1.43	1.39
37	3	50	U	C2-N3	6.31	1.42	1.37
80	6	1076	A	N9-C4	-6.31	1.34	1.37
85	5	53	G	C6-N1	-6.31	1.35	1.39
85	5	783	A	N9-C4	-6.31	1.34	1.37
85	5	1294	A	N7-C5	-6.31	1.35	1.39
1	2	1427	A	N9-C4	-6.31	1.34	1.37
36	1	1364	C	C4-N4	-6.31	1.28	1.33
36	1	1905	G	C2-N3	-6.31	1.27	1.32
85	5	367	A	C6-N1	-6.31	1.31	1.35
85	5	1139	G	N3-C4	-6.31	1.31	1.35
85	5	1187	C	N3-C4	-6.31	1.29	1.33
85	5	2660	G	N9-C8	-6.31	1.33	1.37
36	1	495	G	N9-C8	6.31	1.42	1.37
36	1	1113	G	N9-C8	-6.31	1.33	1.37
36	1	3330	A	N1-C2	-6.31	1.28	1.34
38	8	25	G	C6-N1	-6.31	1.35	1.39
1	2	217	A	C6-N1	6.30	1.40	1.35
36	1	2306	C	N1-C2	6.30	1.46	1.40
85	5	705	A	N9-C4	-6.30	1.34	1.37
85	5	2160	G	C6-N1	-6.30	1.35	1.39
85	5	3327	G	C6-N1	6.30	1.44	1.39
38	8	70	G	C6-N1	-6.30	1.35	1.39
36	1	703	G	N3-C4	-6.30	1.31	1.35
36	1	3167	A	N3-C4	6.30	1.38	1.34
37	3	81	U	N3-C4	-6.30	1.32	1.38
68	O2	3	SER	C-N	-6.30	1.19	1.34
80	6	616	G	N3-C4	-6.30	1.31	1.35
85	5	901	G	N3-C4	-6.30	1.31	1.35
37	3	101	G	N9-C4	-6.30	1.32	1.38
85	5	806	A	C5-C6	-6.30	1.35	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2180	G	C5-C6	-6.30	1.36	1.42
36	1	2946	A	N3-C4	-6.30	1.31	1.34
36	1	2969	A	C5-C6	-6.30	1.35	1.41
36	1	1852	G	C5-C6	-6.30	1.36	1.42
80	6	792	U	C2-N3	6.30	1.42	1.37
85	5	2941	A	N9-C8	-6.30	1.32	1.37
36	1	3173	G	N7-C5	-6.30	1.35	1.39
85	5	2695	A	C6-N1	-6.30	1.31	1.35
37	7	73	C	C2-N3	6.30	1.40	1.35
85	5	1375	G	N9-C8	-6.29	1.33	1.37
85	5	2784	G	N3-C4	-6.29	1.31	1.35
36	1	894	G	C5-C6	-6.29	1.36	1.42
36	1	1136	A	N7-C5	-6.29	1.35	1.39
36	1	2168	A	N9-C8	-6.29	1.32	1.37
49	M3	22	VAL	CB-CG1	-6.29	1.39	1.52
4	s2	79	GLU	CG-CD	6.29	1.61	1.51
85	5	2895	G	N1-C2	-6.29	1.32	1.37
37	7	61	G	C6-N1	-6.29	1.35	1.39
36	1	1408	G	C5-C4	-6.29	1.33	1.38
85	5	1369	A	O3'-P	-6.29	1.53	1.61
85	5	2686	A	P-OP2	6.29	1.59	1.49
36	1	1429	G	C6-N1	-6.29	1.35	1.39
36	1	1872	C	N1-C6	-6.29	1.33	1.37
85	5	725	G	N9-C8	-6.29	1.33	1.37
85	5	2624	G	P-OP1	-6.29	1.38	1.49
85	5	3090	U	N1-C6	-6.29	1.32	1.38
36	1	792	G	N9-C4	-6.29	1.32	1.38
38	4	17	A	C5-C6	-6.29	1.35	1.41
85	5	2331	C	N1-C2	-6.29	1.33	1.40
85	5	2392	C	C5-C6	-6.29	1.29	1.34
38	8	10	A	C5-C6	-6.29	1.35	1.41
40	l3	114	VAL	CB-CG2	-6.29	1.39	1.52
80	6	713	A	N9-C4	6.29	1.41	1.37
25	d3	100	ASP	CB-CG	6.29	1.65	1.51
85	5	3128	G	N3-C4	-6.29	1.31	1.35
36	1	863	C	C2-N3	-6.29	1.30	1.35
36	1	2847	A	C5-C4	-6.29	1.34	1.38
38	4	103	G	N9-C4	6.29	1.43	1.38
68	O2	76	VAL	CB-CG1	-6.29	1.39	1.52
85	5	2937	G	N9-C4	-6.29	1.32	1.38
85	5	2944	U	N3-C4	-6.29	1.32	1.38
44	17	153	PHE	CD1-CE1	-6.29	1.26	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2277	C	N1-C2	-6.28	1.33	1.40
36	1	2377	G	C6-O6	-6.28	1.18	1.24
85	5	397	A	N1-C2	-6.28	1.28	1.34
85	5	2117	A	C5-C4	-6.28	1.34	1.38
85	5	2510	U	C4-O4	6.28	1.28	1.23
85	5	2637	A	N7-C5	-6.28	1.35	1.39
85	5	3098	G	C5-C6	-6.28	1.36	1.42
36	1	384	A	C5-C4	-6.28	1.34	1.38
52	M6	36	VAL	CB-CG1	-6.28	1.39	1.52
69	O3	68	TRP	CE3-CZ3	-6.28	1.27	1.38
36	1	315	C	C4-C5	-6.28	1.38	1.43
36	1	2168	A	N3-C4	-6.28	1.31	1.34
36	1	2302	G	C6-N1	-6.28	1.35	1.39
36	1	2609	A	N9-C8	-6.28	1.32	1.37
85	5	348	A	N9-C8	-6.28	1.32	1.37
85	5	1063	G	C5-C6	-6.28	1.36	1.42
85	5	1902	G	N9-C8	-6.28	1.33	1.37
85	5	2967	A	C5-C4	-6.28	1.34	1.38
37	7	28	C	N1-C6	-6.28	1.33	1.37
38	4	124	G	N7-C5	-6.28	1.35	1.39
80	6	978	A	C6-N1	-6.28	1.31	1.35
80	6	1119	G	C5-C6	-6.28	1.36	1.42
85	5	1315	U	N1-C2	-6.28	1.32	1.38
85	5	1908	A	C5-C4	-6.28	1.34	1.38
38	4	25	G	C5-C4	-6.28	1.33	1.38
85	5	275	U	N3-C4	-6.28	1.32	1.38
85	5	1197	A	N9-C8	-6.28	1.32	1.37
85	5	2405	C	C2-O2	-6.28	1.18	1.24
36	1	1450	G	N3-C4	-6.28	1.31	1.35
85	5	442	G	C6-N1	6.28	1.44	1.39
85	5	674	G	C2-N3	-6.28	1.27	1.32
85	5	2394	G	N1-C2	-6.28	1.32	1.37
85	5	2984	C	C2-O2	-6.28	1.18	1.24
1	2	1267	C	N1-C6	-6.27	1.33	1.37
36	1	823	C	N3-C4	-6.27	1.29	1.33
38	4	5	U	N1-C2	-6.27	1.32	1.38
85	5	1081	U	C2-N3	6.27	1.42	1.37
85	5	2388	U	C2-N3	6.27	1.42	1.37
69	o3	3	GLU	CG-CD	6.27	1.61	1.51
36	1	2136	C	N1-C2	-6.27	1.33	1.40
79	Q3	72	SER	CA-CB	6.27	1.62	1.52
85	5	845	G	C5-C4	-6.27	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1207	G	N9-C8	-6.27	1.33	1.37
85	5	2935	U	C2-N3	6.27	1.42	1.37
85	5	3221	C	N1-C6	-6.27	1.33	1.37
85	5	2939	G	C5-C4	-6.27	1.33	1.38
85	5	3203	U	C2-N3	-6.27	1.33	1.37
1	2	809	U	C4-O4	6.27	1.28	1.23
36	1	1594	A	C6-N1	-6.27	1.31	1.35
36	1	3121	U	C2-N3	-6.27	1.33	1.37
80	6	356	G	C6-N1	-6.27	1.35	1.39
85	5	420	G	N1-C2	-6.27	1.32	1.37
85	5	576	C	N3-C4	-6.27	1.29	1.33
85	5	2331	C	N1-C6	-6.27	1.33	1.37
36	1	699	A	C5-C6	-6.27	1.35	1.41
36	1	885	U	N1-C2	-6.27	1.32	1.38
80	6	105	A	C5-C6	-6.27	1.35	1.41
85	5	216	G	N9-C4	-6.27	1.32	1.38
36	1	387	A	N7-C5	-6.27	1.35	1.39
36	1	2134	G	C5-C4	-6.27	1.33	1.38
36	1	2363	A	N9-C4	-6.27	1.34	1.37
85	5	165	A	C5-C4	6.27	1.43	1.38
85	5	3037	U	C2-N3	6.27	1.42	1.37
36	1	901	G	N3-C4	-6.26	1.31	1.35
80	6	1777	G	N9-C4	-6.26	1.32	1.38
85	5	1205	A	N1-C2	-6.26	1.28	1.34
36	1	2682	C	N3-C4	-6.26	1.29	1.33
36	1	3296	A	N9-C4	-6.26	1.34	1.37
85	5	2330	C	N1-C6	-6.26	1.33	1.37
36	1	99	A	C5-C6	-6.26	1.35	1.41
36	1	1154	A	N1-C2	-6.26	1.28	1.34
36	1	3288	G	C6-N1	6.26	1.44	1.39
80	6	1133	A	C5-C6	-6.26	1.35	1.41
85	5	442	G	N3-C4	6.26	1.39	1.35
85	5	751	A	N3-C4	-6.26	1.31	1.34
85	5	1893	A	N3-C4	-6.26	1.31	1.34
85	5	2820	A	P-OP1	-6.26	1.38	1.49
36	1	927	C	C4-C5	-6.26	1.38	1.43
36	1	2598	G	C2-N3	-6.26	1.27	1.32
85	5	366	A	N9-C8	-6.26	1.32	1.37
85	5	1418	A	N9-C4	-6.26	1.34	1.37
85	5	2421	U	C2-N3	-6.26	1.33	1.37
85	5	2725	U	N3-C4	6.26	1.44	1.38
78	q2	77	CYS	CB-SG	-6.26	1.71	1.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1438	U	N1-C2	-6.26	1.32	1.38
36	1	2969	A	N3-C4	-6.26	1.31	1.34
36	1	3362	A	C5-C4	6.26	1.43	1.38
80	6	398	G	N9-C8	-6.26	1.33	1.37
80	6	770	A	C5-C4	-6.26	1.34	1.38
85	5	634	C	C4-C5	-6.26	1.38	1.43
85	5	2973	G	C2-N2	-6.26	1.28	1.34
36	1	27	C	C2-N3	-6.26	1.30	1.35
36	1	70	A	N3-C4	-6.26	1.31	1.34
36	1	266	A	N9-C4	-6.26	1.34	1.37
80	6	1299	G	N7-C5	-6.26	1.35	1.39
80	6	1663	G	N3-C4	-6.26	1.31	1.35
10	s8	94	ASN	CB-CG	6.26	1.65	1.51
37	7	102	A	N7-C5	-6.26	1.35	1.39
36	1	665	A	N3-C4	-6.25	1.31	1.34
36	1	1093	A	N9-C4	6.25	1.41	1.37
36	1	3188	G	C5-C6	-6.25	1.36	1.42
80	6	304	U	N1-C2	-6.25	1.32	1.38
1	2	47	A	C5-C4	-6.25	1.34	1.38
36	1	790	U	C2-N3	-6.25	1.33	1.37
85	5	509	U	C2-O2	-6.25	1.16	1.22
85	5	1450	G	N3-C4	-6.25	1.31	1.35
85	5	2898	G	C2-N3	-6.25	1.27	1.32
38	8	12	A	N9-C4	-6.25	1.34	1.37
36	1	896	A	N7-C5	-6.25	1.35	1.39
36	1	2809	C	N1-C6	-6.25	1.33	1.37
36	1	3120	C	N1-C2	-6.25	1.33	1.40
80	6	1100	G	C5-C6	-6.25	1.36	1.42
85	5	963	G	N9-C4	6.25	1.43	1.38
85	5	1898	G	N7-C5	-6.25	1.35	1.39
85	5	2324	A	N3-C4	-6.25	1.31	1.34
36	1	1591	G	N3-C4	-6.25	1.31	1.35
85	5	2138	A	C5-C4	-6.25	1.34	1.38
85	5	2962	U	C2-N3	-6.25	1.33	1.37
38	8	13	A	N7-C5	-6.25	1.35	1.39
36	1	794	U	N1-C2	-6.25	1.32	1.38
36	1	2393	G	C6-N1	-6.25	1.35	1.39
36	1	2691	A	C5-C4	-6.25	1.34	1.38
38	4	45	C	N1-C6	-6.25	1.33	1.37
85	5	530	G	N1-C2	-6.25	1.32	1.37
37	7	57	G	C5-C6	-6.25	1.36	1.42
36	1	335	G	O3'-P	-6.25	1.53	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1931	U	N3-C4	-6.25	1.32	1.38
80	6	137	U	C2-N3	6.25	1.42	1.37
80	6	1730	A	N7-C5	-6.25	1.35	1.39
36	1	3371	G	N3-C4	-6.25	1.31	1.35
85	5	1854	C	N3-C4	-6.25	1.29	1.33
85	5	2199	G	C5-C6	-6.25	1.36	1.42
80	6	93	A	N9-C4	-6.24	1.34	1.37
85	5	834	U	N3-C4	-6.24	1.32	1.38
85	5	1022	U	N1-C2	6.24	1.44	1.38
37	7	92	A	C2'-C1'	-6.24	1.46	1.53
85	5	366	A	N9-C4	-6.24	1.34	1.37
85	5	919	U	C2-O2	-6.24	1.16	1.22
85	5	1321	G	N7-C5	-6.24	1.35	1.39
36	1	826	G	C5-C6	-6.24	1.36	1.42
52	M6	126	VAL	CB-CG2	-6.24	1.39	1.52
85	5	504	A	N7-C5	-6.24	1.35	1.39
85	5	858	A	N7-C5	-6.24	1.35	1.39
85	5	1523	U	C2-N3	-6.24	1.33	1.37
85	5	2754	G	C2-N2	-6.24	1.28	1.34
85	5	3125	U	N1-C6	-6.24	1.32	1.38
49	m3	57	VAL	CB-CG2	-6.24	1.39	1.52
36	1	1748	G	N3-C4	-6.24	1.31	1.35
36	1	1859	A	N9-C4	-6.24	1.34	1.37
36	1	1923	C	N1-C2	-6.24	1.33	1.40
36	1	2097	U	N3-C4	6.24	1.44	1.38
80	6	1722	A	N3-C4	-6.24	1.31	1.34
85	5	2877	G	C8-N7	6.24	1.34	1.30
36	1	2799	A	N9-C8	-6.24	1.32	1.37
80	6	1730	A	C5-C6	-6.24	1.35	1.41
85	5	98	G	C5-C4	-6.24	1.33	1.38
85	5	1185	C	N3-C4	-6.24	1.29	1.33
38	4	115	C	C2-N3	-6.24	1.30	1.35
85	5	29	C	N1-C6	-6.24	1.33	1.37
85	5	2922	G	N9-C8	-6.24	1.33	1.37
36	1	384	A	N9-C4	-6.23	1.34	1.37
36	1	1658	G	N7-C5	-6.23	1.35	1.39
36	1	2815	G	N3-C4	-6.23	1.31	1.35
80	6	492	A	N9-C4	6.23	1.41	1.37
85	5	1148	G	C5-C4	-6.23	1.33	1.38
85	5	1404	G	N3-C4	-6.23	1.31	1.35
85	5	2733	A	N3-C4	-6.23	1.31	1.34
38	8	103	G	N7-C5	-6.23	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2	1068	G	C5-C4	-6.23	1.33	1.38
36	1	938	C	N1-C2	-6.23	1.33	1.40
36	1	1375	G	C6-N1	-6.23	1.35	1.39
36	1	1839	A	C6-N1	-6.23	1.31	1.35
36	1	3135	U	N1-C6	-6.23	1.32	1.38
85	5	98	G	C6-O6	-6.23	1.18	1.24
85	5	962	A	C5-C4	-6.23	1.34	1.38
85	5	2660	G	C8-N7	-6.23	1.27	1.30
85	5	2733	A	N9-C4	-6.23	1.34	1.37
85	5	2831	G	C5-C6	-6.23	1.36	1.42
85	5	3126	C	N3-C4	-6.23	1.29	1.33
36	1	1148	G	N9-C8	-6.23	1.33	1.37
36	1	1901	A	C5-C4	-6.23	1.34	1.38
36	1	3051	U	N1-C2	-6.23	1.32	1.38
36	1	3129	A	C5-C4	-6.23	1.34	1.38
85	5	425	G	C5-C6	-6.23	1.36	1.42
1	2	1631	A	C5-C4	-6.23	1.34	1.38
36	1	106	A	N3-C4	-6.23	1.31	1.34
36	1	535	G	C6-N1	-6.23	1.35	1.39
85	5	1295	G	N9-C4	-6.23	1.32	1.38
85	5	1296	C	N3-C4	-6.23	1.29	1.33
68	o2	57	TYR	CD1-CE1	-6.23	1.30	1.39
36	1	227	G	C6-O6	6.23	1.29	1.24
85	5	2890	A	N9-C8	-6.23	1.32	1.37
1	2	887	G	N7-C5	6.22	1.43	1.39
36	1	2874	G	N3-C4	-6.22	1.31	1.35
80	6	1550	A	N7-C5	-6.22	1.35	1.39
85	5	98	G	C6-N1	-6.22	1.35	1.39
85	5	121	A	N3-C4	6.22	1.38	1.34
85	5	1596	C	N1-C6	-6.22	1.33	1.37
85	5	1602	A	N3-C4	-6.22	1.31	1.34
85	5	1889	G	N9-C4	-6.22	1.32	1.38
85	5	2777	G	N7-C5	-6.22	1.35	1.39
36	1	378	A	N9-C8	-6.22	1.32	1.37
36	1	892	U	N1-C2	-6.22	1.32	1.38
36	1	2222	A	C5-C6	-6.22	1.35	1.41
36	1	2968	G	C2-N3	-6.22	1.27	1.32
80	6	1732	A	N3-C4	-6.22	1.31	1.34
85	5	1126	G	C6-N1	-6.22	1.35	1.39
85	5	1320	C	N3-C4	-6.22	1.29	1.33
85	5	2618	G	N9-C8	-6.22	1.33	1.37
36	1	2111	G	C8-N7	-6.22	1.27	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2276	G	C6-N1	-6.22	1.35	1.39
36	1	2686	A	N9-C4	-6.22	1.34	1.37
80	6	1555	A	N3-C4	6.22	1.38	1.34
62	n6	38	GLU	CG-CD	6.22	1.61	1.51
36	1	1202	A	C5-C4	-6.22	1.34	1.38
36	1	1370	G	N9-C8	-6.22	1.33	1.37
36	1	1603	A	N3-C4	-6.22	1.31	1.34
36	1	2601	A	N9-C4	-6.22	1.34	1.37
36	1	3270	U	C2-N3	-6.22	1.33	1.37
39	L2	45	VAL	CB-CG1	-6.22	1.39	1.52
69	O3	103	TYR	CE1-CZ	-6.22	1.30	1.38
85	5	2310	U	C2-N3	-6.22	1.33	1.37
85	5	2699	G	N9-C8	-6.22	1.33	1.37
85	5	2956	A	C2'-O2'	6.22	1.49	1.41
36	1	743	C	N1-C6	-6.22	1.33	1.37
36	1	2809	C	N3-C4	-6.22	1.29	1.33
38	4	133	G	N3-C4	-6.22	1.31	1.35
40	L3	162	VAL	CB-CG1	-6.22	1.39	1.52
85	5	1447	G	N1-C2	-6.22	1.32	1.37
36	1	223	U	N1-C2	-6.21	1.32	1.38
36	1	425	G	C6-N1	-6.21	1.35	1.39
36	1	1891	A	N7-C5	-6.21	1.35	1.39
38	4	92	A	N7-C5	-6.21	1.35	1.39
36	1	107	A	C5-C4	-6.21	1.34	1.38
80	6	1746	A	C6-N1	-6.21	1.31	1.35
1	2	1768	U	N1-C6	-6.21	1.32	1.38
85	5	3155	U	N1-C6	6.21	1.43	1.38
85	5	644	G	C2-N3	-6.21	1.27	1.32
85	5	1417	G	C5-C4	-6.21	1.34	1.38
85	5	1590	G	C5-C6	-6.21	1.36	1.42
85	5	2684	C	N1-C6	-6.21	1.33	1.37
85	5	2690	G	C5-C4	-6.21	1.34	1.38
1	2	1327	A	N3-C4	6.21	1.38	1.34
36	1	610	G	N9-C4	-6.21	1.32	1.38
36	1	2412	G	N9-C8	-6.21	1.33	1.37
36	1	2522	G	C6-N1	6.21	1.43	1.39
80	6	1692	G	C6-N1	6.21	1.43	1.39
85	5	1205	A	C5-C6	-6.21	1.35	1.41
36	1	85	A	C5-C6	-6.21	1.35	1.41
36	1	98	G	C6-N1	-6.21	1.35	1.39
36	1	342	A	N9-C4	-6.21	1.34	1.37
36	1	3172	A	C5-C6	-6.21	1.35	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	4	114	G	N9-C4	-6.21	1.32	1.38
80	6	429	G	N3-C4	-6.21	1.31	1.35
80	6	478	A	N9-C4	-6.21	1.34	1.37
85	5	1115	G	N3-C4	-6.21	1.31	1.35
85	5	3012	A	C5-C6	-6.21	1.35	1.41
85	5	3145	C	N1-C6	-6.21	1.33	1.37
36	1	1390	A	C6-N1	-6.21	1.31	1.35
36	1	2381	G	C6-N1	-6.21	1.35	1.39
80	6	1610	G	C6-N1	-6.21	1.35	1.39
36	1	2143	A	C5-C6	-6.20	1.35	1.41
36	1	2320	A	N9-C4	-6.20	1.34	1.37
85	5	1356	U	N3-C4	6.20	1.44	1.38
85	5	2409	G	C6-N1	-6.20	1.35	1.39
85	5	3145	C	N1-C2	-6.20	1.33	1.40
80	6	1133	A	N7-C5	-6.20	1.35	1.39
85	5	924	G	N7-C5	-6.20	1.35	1.39
36	1	817	A	C5-C4	-6.20	1.34	1.38
36	1	2394	G	C6-N1	-6.20	1.35	1.39
36	1	2955	U	N3-C4	-6.20	1.32	1.38
36	1	3094	A	N7-C5	-6.20	1.35	1.39
80	6	428	A	N3-C4	-6.20	1.31	1.34
80	6	658	C	N1-C6	6.20	1.40	1.37
85	5	966	U	C4-C5	-6.20	1.38	1.43
85	5	2145	A	C5-C6	-6.20	1.35	1.41
85	5	2414	G	C2-N3	-6.20	1.27	1.32
85	5	3376	A	N9-C8	-6.20	1.32	1.37
36	1	776	U	N1-C2	6.20	1.44	1.38
80	6	173	A	N9-C4	-6.20	1.34	1.37
80	6	391	A	N9-C4	-6.20	1.34	1.37
85	5	620	U	N3-C4	6.20	1.44	1.38
85	5	2379	U	C2-O2	-6.20	1.16	1.22
85	5	2900	A	C5-C4	-6.20	1.34	1.38
37	7	7	G	N3-C4	-6.20	1.31	1.35
36	1	108	A	N1-C2	-6.20	1.28	1.34
37	3	2	G	C6-N1	-6.20	1.35	1.39
38	4	54	A	N3-C4	-6.20	1.31	1.34
85	5	30	G	N9-C4	-6.20	1.32	1.38
85	5	2295	A	N7-C5	-6.20	1.35	1.39
85	5	2320	A	C5-C6	-6.20	1.35	1.41
85	5	2425	G	C5-C6	-6.20	1.36	1.42
36	1	100	A	N9-C8	-6.20	1.32	1.37
36	1	996	A	N9-C4	-6.20	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2142	A	C5-C4	-6.20	1.34	1.38
85	5	100	A	N9-C4	-6.20	1.34	1.37
85	5	346	C	N1-C6	-6.20	1.33	1.37
85	5	1316	C	N1-C2	-6.20	1.33	1.40
85	5	2392	C	N1-C6	-6.20	1.33	1.37
85	5	2635	A	C5-C4	-6.20	1.34	1.38
85	5	2912	G	N9-C8	-6.20	1.33	1.37
36	1	2954	U	N1-C2	-6.19	1.32	1.38
85	5	958	C	C2-O2	-6.19	1.18	1.24
1	2	848	A	N3-C4	-6.19	1.31	1.34
36	1	2755	C	N1-C6	-6.19	1.33	1.37
61	N5	124	VAL	CB-CG1	-6.19	1.39	1.52
80	6	1300	A	C6-N6	-6.19	1.28	1.33
85	5	412	G	N3-C4	-6.19	1.31	1.35
85	5	1953	G	C2-N3	6.19	1.37	1.32
36	1	890	C	N3-C4	-6.19	1.29	1.33
36	1	2380	U	N1-C2	-6.19	1.32	1.38
36	1	2894	C	N3-C4	-6.19	1.29	1.33
85	5	1523	U	N1-C6	-6.19	1.32	1.38
85	5	2398	A	N3-C4	-6.19	1.31	1.34
85	5	2738	A	N9-C4	-6.19	1.34	1.37
36	1	1543	G	C6-O6	6.19	1.29	1.24
36	1	2177	G	N9-C8	-6.19	1.33	1.37
36	1	2724	U	N1-C2	-6.19	1.32	1.38
85	5	591	G	C6-N1	6.19	1.43	1.39
85	5	625	G	C6-N1	-6.19	1.35	1.39
85	5	1345	G	C5-C6	6.19	1.48	1.42
85	5	2796	G	C6-N1	-6.19	1.35	1.39
36	1	1023	C	N1-C6	6.19	1.40	1.37
36	1	1342	C	N1-C6	-6.19	1.33	1.37
37	7	87	G	N9-C8	-6.19	1.33	1.37
1	2	555	A	N3-C4	6.18	1.38	1.34
36	1	369	A	C6-N6	-6.18	1.29	1.33
36	1	620	U	P-O5'	6.18	1.66	1.59
80	6	966	A	N7-C5	6.18	1.43	1.39
85	5	2693	C	N1-C6	-6.18	1.33	1.37
85	5	2777	G	N3-C4	-6.18	1.31	1.35
36	1	1196	C	C2-O2	6.18	1.30	1.24
36	1	3140	G	N3-C4	-6.18	1.31	1.35
36	1	3286	G	N3-C4	6.18	1.39	1.35
85	5	2111	G	N7-C5	-6.18	1.35	1.39
85	5	2992	U	N1-C2	-6.18	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1155	C	N1-C2	-6.18	1.33	1.40
38	4	37	A	C6-N1	-6.18	1.31	1.35
85	5	1201	C	C2-N3	6.18	1.40	1.35
37	7	99	G	N1-C2	-6.18	1.32	1.37
1	2	400	A	C6-N1	-6.18	1.31	1.35
36	1	760	G	C5-C6	-6.18	1.36	1.42
36	1	1380	G	N9-C8	-6.18	1.33	1.37
36	1	1749	A	N9-C4	-6.18	1.34	1.37
80	6	136	C	C2-N3	6.18	1.40	1.35
80	6	210	A	N9-C4	-6.18	1.34	1.37
85	5	2833	A	N9-C8	-6.18	1.32	1.37
36	1	3108	G	C5-C4	-6.18	1.34	1.38
85	5	1409	G	N1-C2	-6.18	1.32	1.37
36	1	2095	G	N3-C4	6.18	1.39	1.35
85	5	1293	U	N3-C4	-6.18	1.32	1.38
85	5	2317	A	N1-C2	-6.18	1.28	1.34
38	8	70	G	N9-C8	-6.18	1.33	1.37
36	1	2394	G	C5-C4	-6.17	1.34	1.38
36	1	2407	C	C5-C6	-6.17	1.29	1.34
36	1	2606	G	N9-C8	-6.17	1.33	1.37
36	1	2934	A	N7-C5	-6.17	1.35	1.39
80	6	100	A	N3-C4	-6.17	1.31	1.34
80	6	1418	G	C6-N1	6.17	1.43	1.39
85	5	1080	A	N3-C4	-6.17	1.31	1.34
85	5	1900	A	C5-C4	-6.17	1.34	1.38
85	5	3381	U	C2-O2	-6.17	1.16	1.22
52	m6	80	PHE	CB-CG	-6.17	1.40	1.51
36	1	505	G	C6-N1	-6.17	1.35	1.39
36	1	1907	C	N3-C4	-6.17	1.29	1.33
85	5	1260	A	N7-C5	-6.17	1.35	1.39
85	5	2801	A	P-O5'	-6.17	1.53	1.59
36	1	970	A	C5-C6	-6.17	1.35	1.41
41	L4	194	TYR	CE1-CZ	-6.17	1.30	1.38
85	5	1355	A	P-O5'	6.17	1.66	1.59
85	5	1404	G	N9-C4	-6.17	1.33	1.38
85	5	1604	G	C5-C6	6.17	1.48	1.42
36	1	2939	G	N3-C4	-6.17	1.31	1.35
80	6	1112	G	C6-N1	-6.17	1.35	1.39
85	5	1634	G	C5-C6	-6.17	1.36	1.42
85	5	3087	A	N9-C8	-6.17	1.32	1.37
40	L3	197	GLU	CB-CG	6.17	1.63	1.52
85	5	48	A	C6-N1	-6.17	1.31	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	811	U	C2-N3	-6.17	1.33	1.37
85	5	1206	G	N1-C2	-6.17	1.32	1.37
85	5	2185	G	N7-C5	-6.17	1.35	1.39
85	5	2950	G	C2-N3	-6.17	1.27	1.32
85	5	3091	A	N9-C4	-6.17	1.34	1.37
85	5	3184	A	N7-C5	-6.17	1.35	1.39
85	5	3243	A	C5-C6	-6.17	1.35	1.41
36	1	88	A	C6-N1	-6.17	1.31	1.35
36	1	2323	G	N1-C2	-6.17	1.32	1.37
36	1	2333	C	C2-N3	-6.17	1.30	1.35
80	6	971	A	N3-C4	-6.17	1.31	1.34
80	6	985	G	N7-C5	-6.17	1.35	1.39
80	6	1161	C	N1-C6	-6.17	1.33	1.37
85	5	141	C	N3-C4	6.17	1.38	1.33
85	5	844	G	N9-C4	-6.17	1.33	1.38
85	5	2305	G	C6-N1	-6.17	1.35	1.39
52	m6	135	TYR	CE2-CZ	-6.17	1.30	1.38
1	2	780	G	N7-C5	-6.17	1.35	1.39
36	1	2614	G	N9-C8	-6.17	1.33	1.37
85	5	1845	G	N9-C8	-6.17	1.33	1.37
1	2	1113	G	N3-C4	-6.16	1.31	1.35
85	5	1896	A	C6-N1	-6.16	1.31	1.35
80	6	607	G	N3-C4	-6.16	1.31	1.35
1	2	508	U	N3-C4	6.16	1.44	1.38
36	1	1484	U	N1-C2	-6.16	1.33	1.38
36	1	1865	A	C6-N1	-6.16	1.31	1.35
36	1	2376	G	C6-O6	-6.16	1.18	1.24
36	1	3173	G	C5-C4	-6.16	1.34	1.38
36	1	3242	G	N9-C8	-6.16	1.33	1.37
38	4	83	C	N1-C2	-6.16	1.33	1.40
80	6	40	A	C6-N1	-6.16	1.31	1.35
85	5	1409	G	C5-C6	-6.16	1.36	1.42
85	5	1410	U	N1-C6	-6.16	1.32	1.38
64	n8	52	TYR	CD1-CE1	-6.16	1.30	1.39
1	2	245	U	N3-C4	-6.16	1.32	1.38
6	S4	47	PHE	CB-CG	-6.16	1.40	1.51
36	1	2134	G	N9-C8	-6.16	1.33	1.37
36	1	2201	G	N7-C5	-6.16	1.35	1.39
36	1	2983	C	C2-N3	-6.16	1.30	1.35
80	6	107	C	N1-C6	-6.16	1.33	1.37
85	5	4	U	C2-N3	6.16	1.42	1.37
85	5	3065	G	N3-C4	-6.16	1.31	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2128	C	C2-N3	-6.16	1.30	1.35
85	5	1944	U	C2-O2	-6.16	1.16	1.22
85	5	2193	U	N1-C2	-6.16	1.33	1.38
36	1	1381	A	N9-C4	-6.16	1.34	1.37
36	1	2818	U	N1-C2	-6.16	1.33	1.38
36	1	3233	C	N3-C4	6.16	1.38	1.33
80	6	1749	A	N3-C4	-6.16	1.31	1.34
85	5	424	G	C5-C4	-6.16	1.34	1.38
85	5	2259	A	N9-C4	-6.16	1.34	1.37
85	5	3273	A	C5-C6	-6.16	1.35	1.41
36	1	436	A	C5-C6	-6.15	1.35	1.41
36	1	422	A	C6-N1	-6.15	1.31	1.35
36	1	575	G	N9-C8	-6.15	1.33	1.37
36	1	636	C	N1-C6	-6.15	1.33	1.37
36	1	1622	U	N1-C2	6.15	1.44	1.38
80	6	1722	A	N9-C8	-6.15	1.32	1.37
85	5	1468	A	C5-C4	-6.15	1.34	1.38
80	6	105	A	N7-C5	-6.15	1.35	1.39
85	5	578	A	C5-C4	-6.15	1.34	1.38
85	5	2613	U	N1-C2	-6.15	1.33	1.38
38	8	109	A	N7-C5	-6.15	1.35	1.39
1	2	1135	A	N7-C5	-6.15	1.35	1.39
1	2	1711	A	N9-C4	-6.15	1.34	1.37
36	1	362	U	N3-C4	-6.15	1.32	1.38
36	1	557	A	C5-C6	6.15	1.46	1.41
36	1	2207	A	C5-C4	6.15	1.43	1.38
53	M7	83	TRP	CE3-CZ3	-6.15	1.27	1.38
80	6	684	A	N7-C5	6.15	1.43	1.39
85	5	172	G	N3-C4	6.15	1.39	1.35
85	5	386	A	N9-C8	-6.15	1.32	1.37
85	5	649	A	C6-N1	-6.15	1.31	1.35
85	5	1310	G	N3-C4	-6.15	1.31	1.35
85	5	2661	G	C6-N1	-6.15	1.35	1.39
85	5	2721	A	N3-C4	-6.15	1.31	1.34
37	7	87	G	C2-N3	-6.15	1.27	1.32
47	M0	214	PRO	N-CD	6.15	1.56	1.47
80	6	136	C	N1-C6	6.15	1.40	1.37
85	5	651	G	C5-C6	-6.15	1.36	1.42
85	5	1198	C	C2-N3	-6.15	1.30	1.35
85	5	2190	U	C2-O2	-6.15	1.16	1.22
1	2	1171	G	N7-C5	-6.14	1.35	1.39
36	1	799	G	N1-C2	-6.14	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1483	G	C6-N1	-6.14	1.35	1.39
36	1	2919	A	N9-C4	-6.14	1.34	1.37
80	6	388	G	C6-N1	-6.14	1.35	1.39
85	5	50	U	C4-C5	-6.14	1.38	1.43
85	5	984	G	N3-C4	-6.14	1.31	1.35
51	m5	73	ARG	C-N	-6.14	1.22	1.34
36	1	657	A	C5-C6	-6.14	1.35	1.41
37	3	81	U	C5-C6	-6.14	1.28	1.34
80	6	845	G	C5-C4	6.14	1.42	1.38
80	6	1296	A	C5-C4	-6.14	1.34	1.38
85	5	1753	G	C6-O6	6.14	1.29	1.24
85	5	1871	U	C4-O4	-6.14	1.18	1.23
85	5	2298	U	C2-N3	-6.14	1.33	1.37
1	2	813	U	N1-C2	6.14	1.44	1.38
1	2	1296	A	C5-C6	-6.14	1.35	1.41
36	1	569	A	N9-C4	-6.14	1.34	1.37
36	1	2957	G	N9-C8	-6.14	1.33	1.37
85	5	3010	U	N1-C6	-6.14	1.32	1.38
36	1	1530	U	N1-C2	-6.14	1.33	1.38
36	1	1734	G	C5-C6	-6.14	1.36	1.42
36	1	2119	A	C5-C4	-6.14	1.34	1.38
36	1	2975	U	C2-N3	-6.14	1.33	1.37
85	5	947	G	N7-C5	-6.14	1.35	1.39
85	5	2620	G	C6-O6	-6.14	1.18	1.24
85	5	1401	A	N7-C5	-6.14	1.35	1.39
85	5	1413	G	N9-C4	-6.14	1.33	1.38
36	1	932	U	P-O5'	-6.14	1.53	1.59
36	1	1859	A	C5-C4	-6.14	1.34	1.38
85	5	156	G	N7-C5	-6.14	1.35	1.39
85	5	1445	U	N1-C6	-6.14	1.32	1.38
37	7	13	A	C6-N1	-6.14	1.31	1.35
36	1	80	G	C6-O6	-6.13	1.18	1.24
36	1	576	C	N1-C2	-6.13	1.34	1.40
36	1	1395	G	N1-C2	-6.13	1.32	1.37
36	1	2201	G	N3-C4	-6.13	1.31	1.35
36	1	3236	U	N1-C2	6.13	1.44	1.38
52	M6	4	GLU	CB-CG	-6.13	1.40	1.52
80	6	294	C	N3-C4	-6.13	1.29	1.33
80	6	579	A	C5-C4	6.13	1.43	1.38
85	5	406	G	N3-C4	-6.13	1.31	1.35
85	5	748	U	C2-N3	6.13	1.42	1.37
85	5	1881	A	C5-C6	-6.13	1.35	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2829	U	C4-C5	-6.13	1.38	1.43
36	1	3210	A	N9-C4	-6.13	1.34	1.37
40	L3	154	TYR	CD1-CE1	-6.13	1.30	1.39
85	5	2138	A	C6-N1	-6.13	1.31	1.35
85	5	2312	A	N1-C2	-6.13	1.28	1.34
37	7	80	G	C6-O6	-6.13	1.18	1.24
48	m1	157	GLU	CB-CG	6.13	1.63	1.52
36	1	2111	G	C5-C4	-6.13	1.34	1.38
76	q0	110	CYS	CB-SG	-6.13	1.71	1.82
1	2	1112	U	C2-N3	-6.13	1.33	1.37
36	1	180	C	N1-C6	6.13	1.40	1.37
36	1	583	G	C2-N2	-6.13	1.28	1.34
36	1	931	C	O3'-P	-6.13	1.53	1.61
85	5	206	G	N9-C4	6.13	1.42	1.38
85	5	1327	C	C4-C5	-6.13	1.38	1.43
85	5	3310	A	N3-C4	-6.13	1.31	1.34
85	5	3315	G	C6-N1	-6.13	1.35	1.39
38	8	83	C	C2-N3	6.13	1.40	1.35
36	1	1467	A	C6-N6	-6.12	1.29	1.33
36	1	1928	G	N1-C2	-6.12	1.32	1.37
36	1	2885	C	C2-N3	-6.12	1.30	1.35
85	5	2956	A	N9-C4	-6.12	1.34	1.37
85	5	2989	U	N1-C6	-6.12	1.32	1.38
1	2	1793	G	N9-C4	6.12	1.42	1.38
80	6	269	G	N9-C4	-6.12	1.33	1.38
85	5	1165	A	N3-C4	-6.12	1.31	1.34
85	5	1297	C	N1-C6	-6.12	1.33	1.37
85	5	1321	G	C2-N3	-6.12	1.27	1.32
85	5	1477	A	C6-N6	-6.12	1.29	1.33
85	5	1786	G	C6-N1	-6.12	1.35	1.39
38	8	89	A	N7-C5	6.12	1.43	1.39
36	1	2605	G	C6-N1	-6.12	1.35	1.39
85	5	2828	G	C5-C4	-6.12	1.34	1.38
85	5	2907	G	N3-C4	-6.12	1.31	1.35
36	1	153	U	N1-C2	-6.12	1.33	1.38
85	5	1132	C	C2-N3	-6.12	1.30	1.35
37	7	20	A	C6-N1	-6.12	1.31	1.35
91	p	75	C	N1-C6	-6.12	1.33	1.37
1	2	1470	A	N9-C4	-6.12	1.34	1.37
36	1	384	A	C5-C6	-6.12	1.35	1.41
36	1	2184	U	N1-C6	-6.12	1.32	1.38
36	1	2407	C	N1-C6	-6.12	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	3327	G	C6-O6	6.12	1.29	1.24
80	6	408	C	N3-C4	-6.12	1.29	1.33
85	5	1427	U	N1-C2	-6.12	1.33	1.38
85	5	2340	U	N3-C4	-6.12	1.32	1.38
38	8	133	G	N3-C4	-6.12	1.31	1.35
40	13	205	VAL	CB-CG1	-6.12	1.40	1.52
85	5	914	A	N3-C4	-6.12	1.31	1.34
91	P	75	C	N1-C6	-6.12	1.33	1.37
36	1	37	U	N1-C2	-6.12	1.33	1.38
36	1	189	G	C2-N3	-6.12	1.27	1.32
36	1	279	U	N3-C4	-6.12	1.32	1.38
36	1	522	A	N3-C4	-6.12	1.31	1.34
36	1	2405	C	N1-C6	-6.12	1.33	1.37
85	5	691	A	N3-C4	-6.12	1.31	1.34
85	5	955	U	P-OP1	-6.12	1.38	1.49
85	5	3303	G	C5-C6	-6.12	1.36	1.42
37	7	32	U	N1-C2	-6.12	1.33	1.38
36	1	637	C	C4-C5	-6.11	1.38	1.43
36	1	2981	U	N1-C2	-6.11	1.33	1.38
85	5	2399	A	C6-N1	-6.11	1.31	1.35
85	5	2914	G	N1-C2	-6.11	1.32	1.37
38	8	10	A	N7-C5	-6.11	1.35	1.39
1	2	445	A	N3-C4	6.11	1.38	1.34
36	1	2643	A	N9-C4	-6.11	1.34	1.37
36	1	2670	G	N7-C5	-6.11	1.35	1.39
36	1	3359	A	N3-C4	6.11	1.38	1.34
85	5	1002	A	N7-C5	-6.11	1.35	1.39
85	5	1096	U	C4-O4	6.11	1.28	1.23
85	5	2351	U	C4-O4	-6.11	1.18	1.23
1	2	315	A	C5-C4	-6.11	1.34	1.38
36	1	2152	A	N9-C4	-6.11	1.34	1.37
36	1	2293	C	C4-C5	-6.11	1.38	1.43
36	1	2878	G	C2-N3	-6.11	1.27	1.32
85	5	787	G	N7-C5	-6.11	1.35	1.39
85	5	1143	A	N7-C5	-6.11	1.35	1.39
85	5	2911	A	N7-C5	-6.11	1.35	1.39
36	1	908	G	N7-C5	-6.11	1.35	1.39
36	1	950	G	C8-N7	-6.11	1.27	1.30
80	6	943	C	N1-C6	-6.11	1.33	1.37
85	5	1205	A	C6-N6	-6.11	1.29	1.33
85	5	2187	G	C6-N1	-6.11	1.35	1.39
85	5	2824	G	N3-C4	-6.11	1.31	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2942	C	C4-C5	-6.11	1.38	1.43
36	1	1404	G	N9-C4	-6.11	1.33	1.38
36	1	2299	A	N3-C4	-6.11	1.31	1.34
36	1	3120	C	N1-C6	-6.11	1.33	1.37
80	6	263	C	N1-C2	-6.11	1.34	1.40
80	6	436	A	C5-C6	-6.11	1.35	1.41
85	5	688	G	N9-C8	-6.11	1.33	1.37
85	5	2951	G	C2-N3	-6.11	1.27	1.32
36	1	1536	G	C2-N3	-6.10	1.27	1.32
36	1	2372	A	N7-C5	-6.10	1.35	1.39
37	7	42	A	N3-C4	-6.10	1.31	1.34
50	m4	63	VAL	CB-CG1	-6.10	1.40	1.52
36	1	662	U	C2-O2	-6.10	1.16	1.22
36	1	838	G	N3-C4	-6.10	1.31	1.35
36	1	2332	A	N7-C5	-6.10	1.35	1.39
80	6	1692	G	N3-C4	6.10	1.39	1.35
85	5	386	A	N9-C4	-6.10	1.34	1.37
36	1	404	G	C5-C4	-6.10	1.34	1.38
36	1	2793	G	N3-C4	-6.10	1.31	1.35
80	6	241	U	N3-C4	6.10	1.44	1.38
85	5	761	A	N3-C4	6.10	1.38	1.34
85	5	2395	G	C6-N1	-6.10	1.35	1.39
85	5	3039	C	C2-O2	-6.10	1.19	1.24
36	1	271	C	N1-C2	-6.10	1.34	1.40
36	1	2379	U	C2-O2	-6.10	1.16	1.22
36	1	2560	C	N1-C2	6.10	1.46	1.40
36	1	2778	G	C5-C6	-6.10	1.36	1.42
85	5	518	G	C6-O6	6.10	1.29	1.24
85	5	881	C	N1-C6	-6.10	1.33	1.37
85	5	1350	A	P-OP2	6.10	1.59	1.49
85	5	2415	C	C2-N3	-6.10	1.30	1.35
85	5	2794	G	C5-C4	-6.10	1.34	1.38
36	1	2750	U	N1-C2	-6.10	1.33	1.38
68	O2	17	PHE	CE2-CZ	-6.10	1.25	1.37
85	5	119	U	N1-C2	6.10	1.44	1.38
85	5	201	A	C5-C6	-6.10	1.35	1.41
85	5	805	G	N1-C2	-6.10	1.32	1.37
85	5	1524	A	C5-C6	-6.10	1.35	1.41
37	7	55	A	N9-C4	-6.10	1.34	1.37
36	1	2368	A	N9-C4	-6.10	1.34	1.37
36	1	3008	A	N9-C4	-6.10	1.34	1.37
80	6	1436	A	N9-C4	6.10	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2367	A	N7-C5	-6.10	1.35	1.39
36	1	2809	C	C2-N3	-6.09	1.30	1.35
80	6	1678	A	C5-C6	-6.09	1.35	1.41
85	5	2531	C	N1-C2	6.09	1.46	1.40
85	5	2708	C	N1-C6	-6.09	1.33	1.37
37	7	71	G	N9-C8	-6.09	1.33	1.37
38	8	158	U	C2-N3	6.09	1.42	1.37
36	1	418	A	C6-N1	-6.09	1.31	1.35
85	5	1148	G	N9-C8	-6.09	1.33	1.37
85	5	1589	A	N9-C4	6.09	1.41	1.37
37	7	36	C	N1-C6	-6.09	1.33	1.37
36	1	2884	C	N1-C2	-6.09	1.34	1.40
36	1	3091	A	C6-N1	-6.09	1.31	1.35
80	6	986	G	N7-C5	-6.09	1.35	1.39
80	6	1754	A	N3-C4	-6.09	1.31	1.34
36	1	226	C	N1-C6	-6.09	1.33	1.37
36	1	2160	G	C5-C6	6.09	1.48	1.42
85	5	911	C	C4-C5	-6.09	1.38	1.43
85	5	1350	A	C6-N6	6.09	1.38	1.33
85	5	2113	A	N9-C4	-6.09	1.34	1.37
85	5	2424	A	C5-C6	-6.09	1.35	1.41
36	1	1167	U	C2-O2	-6.09	1.16	1.22
36	1	1424	C	N3-C4	-6.09	1.29	1.33
36	1	2689	A	N9-C8	-6.09	1.32	1.37
80	6	971	A	C6-N1	-6.09	1.31	1.35
36	1	1096	U	C4-O4	6.09	1.28	1.23
36	1	2956	A	C5-C6	-6.09	1.35	1.41
38	4	94	C	N3-C4	-6.09	1.29	1.33
54	M8	9	GLN	CG-CD	-6.09	1.37	1.51
80	6	449	C	N3-C4	-6.09	1.29	1.33
85	5	2315	G	N1-C2	-6.09	1.32	1.37
85	5	2798	C	C2-N3	-6.09	1.30	1.35
36	1	3106	A	N7-C5	-6.08	1.35	1.39
80	6	1777	G	C2-N3	-6.08	1.27	1.32
85	5	2605	G	N7-C5	-6.08	1.35	1.39
36	1	80	G	N1-C2	-6.08	1.32	1.37
36	1	744	A	N9-C4	-6.08	1.34	1.37
36	1	2370	G	C6-N1	-6.08	1.35	1.39
80	6	1050	G	C6-O6	6.08	1.29	1.24
85	5	2170	U	N1-C2	-6.08	1.33	1.38
85	5	2297	U	N1-C2	-6.08	1.33	1.38
1	2	586	G	N7-C5	6.08	1.42	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1209	G	C5-C4	-6.08	1.34	1.38
85	5	1207	G	N1-C2	-6.08	1.32	1.37
85	5	3209	A	C6-N6	6.08	1.38	1.33
36	1	156	G	N7-C5	-6.08	1.35	1.39
36	1	887	G	C5-C4	-6.08	1.34	1.38
80	6	371	G	N7-C5	-6.08	1.35	1.39
85	5	1309	U	C4-C5	-6.08	1.38	1.43
85	5	2903	A	C6-N1	-6.08	1.31	1.35
36	1	325	A	C5-C4	-6.08	1.34	1.38
36	1	973	A	C6-N1	-6.08	1.31	1.35
36	1	1117	G	N3-C4	-6.08	1.31	1.35
36	1	1352	A	N1-C2	6.08	1.39	1.34
36	1	2111	G	N7-C5	-6.08	1.35	1.39
36	1	2996	U	N1-C2	6.08	1.44	1.38
80	6	1004	U	N1-C6	-6.08	1.32	1.38
80	6	1739	C	N1-C6	-6.08	1.33	1.37
85	5	306	A	N9-C8	-6.08	1.32	1.37
85	5	996	A	C5-C4	-6.08	1.34	1.38
85	5	2535	A	N7-C5	6.08	1.42	1.39
85	5	2613	U	C2-O2	-6.08	1.16	1.22
85	5	3319	U	C4-C5	6.08	1.49	1.43
36	1	402	A	N7-C5	-6.08	1.35	1.39
36	1	1852	G	N9-C4	-6.08	1.33	1.38
36	1	2112	U	C2-O2	6.08	1.27	1.22
1	2	217	A	C5-C4	6.08	1.43	1.38
36	1	1089	G	N7-C5	6.08	1.42	1.39
36	1	3347	A	N3-C4	6.08	1.38	1.34
37	3	66	A	C5-C4	-6.08	1.34	1.38
38	4	36	G	C2-N3	-6.08	1.27	1.32
38	4	61	A	N7-C5	-6.08	1.35	1.39
85	5	2899	C	N1-C6	-6.08	1.33	1.37
36	1	699	A	C5-C4	-6.07	1.34	1.38
36	1	1405	U	N1-C2	-6.07	1.33	1.38
85	5	234	G	N1-C2	6.07	1.42	1.37
85	5	1121	U	N1-C6	-6.07	1.32	1.38
85	5	1178	G	N7-C5	-6.07	1.35	1.39
85	5	2276	G	N1-C2	-6.07	1.32	1.37
85	5	2506	U	N3-C4	6.07	1.44	1.38
41	14	113	VAL	CB-CG2	-6.07	1.40	1.52
55	m9	14	VAL	CB-CG1	-6.07	1.40	1.52
85	5	1387	G	N9-C4	-6.07	1.33	1.38
1	2	1064	A	C5-C6	6.07	1.46	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	836	A	C5-C6	-6.07	1.35	1.41
36	1	844	G	N9-C4	-6.07	1.33	1.38
36	1	1034	U	C2-N3	6.07	1.42	1.37
36	1	1853	U	C2-O2	-6.07	1.16	1.22
80	6	1672	G	N9-C8	6.07	1.42	1.37
85	5	938	C	N3-C4	-6.07	1.29	1.33
85	5	1369	A	N3-C4	-6.07	1.31	1.34
85	5	1462	A	N9-C4	-6.07	1.34	1.37
53	m7	154	GLU	CG-CD	6.07	1.61	1.51
1	2	1654	A	N3-C4	-6.07	1.31	1.34
36	1	1492	G	N7-C5	-6.07	1.35	1.39
85	5	1464	G	N9-C8	-6.07	1.33	1.37
85	5	2262	A	N9-C4	-6.07	1.34	1.37
85	5	3032	A	C5-C6	-6.07	1.35	1.41
36	1	1145	G	C2-N2	-6.07	1.28	1.34
36	1	1859	A	C6-N1	-6.07	1.31	1.35
36	1	2863	G	C5-C6	-6.07	1.36	1.42
80	6	757	A	N7-C5	-6.07	1.35	1.39
85	5	889	U	C2-N3	-6.07	1.33	1.37
85	5	1137	C	C2-N3	-6.07	1.30	1.35
85	5	2703	A	N9-C4	-6.07	1.34	1.37
80	6	239	C	N1-C6	6.07	1.40	1.37
80	6	1025	A	N9-C4	-6.07	1.34	1.37
85	5	2795	U	N1-C2	-6.07	1.33	1.38
54	m8	95	GLU	CG-CD	6.07	1.61	1.51
36	1	1931	U	N1-C6	-6.06	1.32	1.38
80	6	391	A	C5-C4	-6.06	1.34	1.38
1	2	1363	U	C2-N3	-6.06	1.33	1.37
36	1	907	G	C2'-C1'	-6.06	1.46	1.53
36	1	2284	C	N3-C4	-6.06	1.29	1.33
36	1	2375	G	N1-C2	-6.06	1.32	1.37
80	6	1124	A	N9-C4	-6.06	1.34	1.37
85	5	1477	A	C5-C4	-6.06	1.34	1.38
85	5	2754	G	N9-C8	-6.06	1.33	1.37
36	1	357	A	C5-C6	-6.06	1.35	1.41
36	1	2134	G	N1-C2	-6.06	1.32	1.37
36	1	2309	A	N7-C5	-6.06	1.35	1.39
85	5	1324	U	C2-N3	-6.06	1.33	1.37
36	1	898	U	C4-C5	-6.06	1.38	1.43
36	1	1412	G	N9-C8	-6.06	1.33	1.37
36	1	2156	C	N1-C6	-6.06	1.33	1.37
36	1	2302	G	N1-C2	-6.06	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2767	U	N3-C4	-6.06	1.32	1.38
80	6	89	G	C6-N1	6.06	1.43	1.39
80	6	1750	A	N9-C8	-6.06	1.32	1.37
85	5	1569	U	N1-C2	6.06	1.44	1.38
85	5	2152	A	N3-C4	-6.06	1.31	1.34
85	5	2775	U	N1-C6	-6.06	1.32	1.38
85	5	3161	C	N1-C6	6.06	1.40	1.37
36	1	356	C	N1-C2	-6.06	1.34	1.40
85	5	856	G	N1-C2	-6.06	1.32	1.37
85	5	958	C	C2-N3	-6.06	1.30	1.35
85	5	2370	G	N3-C4	-6.06	1.31	1.35
85	5	2607	G	N9-C4	-6.06	1.33	1.38
1	2	609	U	C2-N3	-6.06	1.33	1.37
36	1	2852	C	N3-C4	-6.06	1.29	1.33
80	6	390	G	C5-C4	-6.06	1.34	1.38
85	5	343	U	N3-C4	-6.06	1.32	1.38
85	5	1891	A	N7-C5	-6.06	1.35	1.39
85	5	2147	A	C6-N6	-6.06	1.29	1.33
85	5	3371	G	N9-C8	-6.06	1.33	1.37
1	2	165	G	N7-C5	-6.05	1.35	1.39
36	1	691	A	N9-C8	-6.05	1.32	1.37
36	1	930	U	C4'-C3'	-6.05	1.46	1.53
36	1	1071	U	C2-N3	6.05	1.42	1.37
36	1	2329	C	N3-C4	-6.05	1.29	1.33
36	1	2691	A	C6-N1	-6.05	1.31	1.35
36	1	2879	C	N1-C6	-6.05	1.33	1.37
36	1	2933	A	C5-C4	-6.05	1.34	1.38
85	5	2364	G	N9-C4	-6.05	1.33	1.38
85	5	2634	U	C4'-C3'	-6.05	1.46	1.53
85	5	2847	A	N3-C4	-6.05	1.31	1.34
37	7	77	G	N3-C4	6.05	1.39	1.35
36	1	2991	A	C5-C6	-6.05	1.35	1.41
80	6	616	G	C5-C4	-6.05	1.34	1.38
85	5	833	G	C8-N7	-6.05	1.27	1.30
85	5	1922	A	N7-C5	-6.05	1.35	1.39
1	2	921	G	C5-C6	-6.05	1.36	1.42
36	1	780	A	N9-C8	-6.05	1.32	1.37
36	1	1098	A	N7-C5	-6.05	1.35	1.39
80	6	651	G	C6-N1	6.05	1.43	1.39
85	5	1202	A	N3-C4	-6.05	1.31	1.34
85	5	1315	U	N3-C4	-6.05	1.33	1.38
85	5	1434	G	C2-N3	-6.05	1.27	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	25	U	N1-C6	-6.05	1.32	1.38
36	1	947	G	N9-C4	-6.05	1.33	1.38
80	6	87	C	N3-C4	-6.05	1.29	1.33
85	5	1173	U	C4-C5	-6.05	1.38	1.43
85	5	1654	A	N9-C4	-6.05	1.34	1.37
85	5	1891	A	C6-N1	-6.05	1.31	1.35
85	5	2959	C	C2-N3	-6.05	1.30	1.35
36	1	1168	U	C2-N3	-6.05	1.33	1.37
80	6	1762	A	N9-C4	-6.05	1.34	1.37
1	2	764	U	N1-C2	6.05	1.44	1.38
36	1	49	A	N9-C8	-6.05	1.32	1.37
36	1	272	G	C6-N1	-6.05	1.35	1.39
36	1	2681	U	C2-N3	-6.05	1.33	1.37
37	3	35	C	N1-C2	-6.05	1.34	1.40
85	5	354	U	C4-C5	-6.05	1.38	1.43
85	5	1664	G	N3-C4	-6.05	1.31	1.35
85	5	2116	G	C5-C6	-6.05	1.36	1.42
85	5	2633	U	N1-C6	-6.05	1.32	1.38
85	5	2682	C	N3-C4	-6.05	1.29	1.33
1	2	1778	U	N3-C4	6.04	1.43	1.38
36	1	516	A	C5-C4	-6.04	1.34	1.38
36	1	1305	U	N1-C2	-6.04	1.33	1.38
36	1	1762	C	C2-O2	6.04	1.29	1.24
36	1	2784	G	N9-C8	-6.04	1.33	1.37
36	1	2853	A	C5-C6	-6.04	1.35	1.41
36	1	2976	A	N9-C4	-6.04	1.34	1.37
85	5	1851	G	C5-C4	-6.04	1.34	1.38
36	1	119	U	C2-N3	-6.04	1.33	1.37
36	1	1854	C	N3-C4	-6.04	1.29	1.33
36	1	2910	A	C6-N1	-6.04	1.31	1.35
85	5	2985	C	C4-C5	-6.04	1.38	1.43
38	8	21	C	C2-N3	-6.04	1.30	1.35
38	8	133	G	C6-N1	-6.04	1.35	1.39
62	n6	6	LEU	CA-C	-6.04	1.37	1.52
85	5	1142	G	N7-C5	-6.04	1.35	1.39
85	5	3011	A	C5-C4	-6.04	1.34	1.38
85	5	3105	U	N1-C2	-6.04	1.33	1.38
85	5	3141	A	N9-C4	-6.04	1.34	1.37
1	2	895	U	C2-N3	6.04	1.42	1.37
36	1	806	A	N9-C8	-6.04	1.32	1.37
36	1	1121	U	N1-C2	-6.04	1.33	1.38
36	1	1515	A	N7-C5	-6.04	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1681	U	N3-C4	-6.04	1.33	1.38
36	1	1829	G	N3-C4	-6.04	1.31	1.35
80	6	342	C	N1-C6	-6.04	1.33	1.37
80	6	1550	A	N9-C4	-6.04	1.34	1.37
85	5	872	U	N1-C6	-6.04	1.32	1.38
85	5	972	A	N3-C4	-6.04	1.31	1.34
85	5	997	A	N7-C5	-6.04	1.35	1.39
85	5	1321	G	N9-C4	-6.04	1.33	1.38
85	5	2824	G	N9-C8	-6.04	1.33	1.37
1	2	1616	A	C6-N1	-6.04	1.31	1.35
36	1	1162	U	N1-C2	-6.04	1.33	1.38
85	5	12	A	N3-C4	-6.04	1.31	1.34
85	5	2531	C	N1-C6	6.04	1.40	1.37
37	7	110	G	N3-C4	-6.04	1.31	1.35
36	1	252	U	C2-O2	6.04	1.27	1.22
36	1	301	G	N9-C8	-6.04	1.33	1.37
36	1	794	U	N1-C6	-6.04	1.32	1.38
36	1	1111	U	N3-C4	-6.04	1.33	1.38
36	1	2738	A	N3-C4	-6.04	1.31	1.34
36	1	3063	C	N1-C6	-6.04	1.33	1.37
85	5	2333	C	N1-C6	-6.04	1.33	1.37
56	n0	140	VAL	CB-CG1	-6.04	1.40	1.52
36	1	426	G	C6-N1	-6.03	1.35	1.39
36	1	636	C	N3-C4	-6.03	1.29	1.33
36	1	1028	U	N1-C6	6.03	1.43	1.38
36	1	3188	G	C2-N3	-6.03	1.27	1.32
80	6	48	G	C5-C4	-6.03	1.34	1.38
85	5	99	A	C5-C4	-6.03	1.34	1.38
85	5	924	G	N1-C2	-6.03	1.32	1.37
85	5	2987	A	C5-C4	-6.03	1.34	1.38
85	5	3309	G	C5-C6	-6.03	1.36	1.42
37	7	81	U	N1-C6	-6.03	1.32	1.38
37	7	121	U	N1-C2	6.03	1.44	1.38
1	2	1115	A	C5-C4	-6.03	1.34	1.38
36	1	53	G	C6-N1	-6.03	1.35	1.39
85	5	534	U	N1-C2	6.03	1.44	1.38
85	5	1515	A	N7-C5	-6.03	1.35	1.39
36	1	1145	G	C5-C4	-6.03	1.34	1.38
36	1	1402	C	N1-C2	-6.03	1.34	1.40
36	1	3172	A	N7-C5	-6.03	1.35	1.39
41	L4	197	ARG	CG-CD	-6.03	1.36	1.51
85	5	2113	A	N3-C4	-6.03	1.31	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2377	G	C5-C4	-6.03	1.34	1.38
85	5	2887	A	N3-C4	-6.03	1.31	1.34
85	5	2994	A	N7-C5	-6.03	1.35	1.39
44	17	220	PHE	CB-CG	-6.03	1.41	1.51
36	1	3046	A	C5-C6	-6.03	1.35	1.41
80	6	754	A	C5-C4	6.03	1.43	1.38
85	5	2240	G	C8-N7	-6.03	1.27	1.30
85	5	2732	G	N9-C4	-6.03	1.33	1.38
36	1	362	U	N1-C2	-6.03	1.33	1.38
36	1	1382	G	C6-N1	-6.03	1.35	1.39
36	1	1608	C	N1-C6	-6.03	1.33	1.37
36	1	2962	U	C2-N3	-6.03	1.33	1.37
80	6	606	A	N9-C4	6.03	1.41	1.37
85	5	2651	G	N9-C8	-6.03	1.33	1.37
36	1	2615	G	N1-C2	-6.03	1.32	1.37
85	5	609	G	N9-C8	-6.03	1.33	1.37
85	5	840	C	N1-C6	-6.03	1.33	1.37
85	5	1612	A	N9-C4	-6.03	1.34	1.37
36	1	1143	A	N7-C5	-6.02	1.35	1.39
36	1	267	G	N9-C4	-6.02	1.33	1.38
36	1	555	U	C2-N3	-6.02	1.33	1.37
80	6	122	U	C2-O2	6.02	1.27	1.22
85	5	1560	G	C6-N1	6.02	1.43	1.39
85	5	1879	A	N7-C5	-6.02	1.35	1.39
85	5	1922	A	N3-C4	-6.02	1.31	1.34
37	7	61	G	N9-C4	-6.02	1.33	1.38
40	13	324	VAL	CB-CG2	-6.02	1.40	1.52
36	1	915	A	C5-C6	-6.02	1.35	1.41
36	1	1655	G	C6-O6	-6.02	1.18	1.24
36	1	1931	U	N1-C2	-6.02	1.33	1.38
36	1	3132	C	C2-N3	-6.02	1.30	1.35
85	5	589	A	C5-C6	-6.02	1.35	1.41
85	5	2984	C	C2-N3	-6.02	1.30	1.35
37	7	43	U	N1-C6	-6.02	1.32	1.38
36	1	2209	U	N1-C2	6.02	1.44	1.38
38	4	90	U	N1-C6	-6.02	1.32	1.38
85	5	330	G	N9-C8	6.02	1.42	1.37
85	5	914	A	N9-C8	-6.02	1.32	1.37
85	5	1329	U	N1-C6	-6.02	1.32	1.38
85	5	1413	G	C2-N2	-6.02	1.28	1.34
85	5	2506	U	C2-N3	6.02	1.42	1.37
85	5	2610	G	N3-C4	-6.02	1.31	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2642	A	N3-C4	-6.02	1.31	1.34
85	5	2829	U	N1-C6	-6.02	1.32	1.38
36	1	3122	A	C6-N1	-6.02	1.31	1.35
37	3	8	G	N9-C4	-6.02	1.33	1.38
85	5	421	G	C5-C4	-6.02	1.34	1.38
36	1	328	U	N3-C4	-6.01	1.33	1.38
36	1	1112	A	N9-C8	-6.01	1.32	1.37
36	1	2313	A	C5-C6	-6.01	1.35	1.41
80	6	1071	U	N1-C2	-6.01	1.33	1.38
85	5	652	G	P-OP2	-6.01	1.38	1.49
85	5	2138	A	C5-C6	-6.01	1.35	1.41
42	15	37	VAL	CB-CG1	-6.01	1.40	1.52
36	1	2143	A	C6-N6	-6.01	1.29	1.33
36	1	3279	A	N9-C8	6.01	1.42	1.37
38	4	31	G	P-OP2	6.01	1.59	1.49
80	6	1654	G	N3-C4	-6.01	1.31	1.35
85	5	2843	U	N1-C2	6.01	1.44	1.38
85	5	3183	A	C6-N6	-6.01	1.29	1.33
42	15	117	GLU	CB-CG	6.01	1.63	1.52
1	2	73	U	C2-N3	-6.01	1.33	1.37
1	2	279	G	N9-C4	6.01	1.42	1.38
36	1	638	C	O3'-P	-6.01	1.53	1.61
36	1	2096	A	N9-C8	6.01	1.42	1.37
36	1	2182	A	N3-C4	-6.01	1.31	1.34
36	1	2832	C	N1-C6	-6.01	1.33	1.37
36	1	3045	G	N9-C8	-6.01	1.33	1.37
85	5	2599	U	N1-C6	-6.01	1.32	1.38
85	5	2891	U	N3-C4	-6.01	1.33	1.38
36	1	505	G	C2-N3	-6.01	1.27	1.32
36	1	1153	A	C8-N7	-6.01	1.27	1.31
36	1	2177	G	C5-C4	-6.01	1.34	1.38
36	1	2852	C	C2-N3	-6.01	1.30	1.35
85	5	543	C	N1-C6	6.01	1.40	1.37
85	5	924	G	C5-C4	-6.01	1.34	1.38
85	5	2653	C	C2-O2	-6.01	1.19	1.24
85	5	2914	G	C6-O6	-6.01	1.18	1.24
85	5	2921	U	N1-C2	-6.01	1.33	1.38
85	5	3318	G	N9-C4	-6.01	1.33	1.38
36	1	597	G	C6-N1	-6.01	1.35	1.39
36	1	1145	G	N1-C2	-6.01	1.32	1.37
80	6	915	A	N9-C4	6.01	1.41	1.37
80	6	1680	G	C5-C4	-6.01	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	3271	G	C5-C4	-6.01	1.34	1.38
13	C1	15	LYS	C-N	-6.01	1.20	1.34
36	1	39	A	C6-N6	-6.01	1.29	1.33
36	1	989	A	N9-C4	-6.01	1.34	1.37
36	1	1130	A	N3-C4	-6.01	1.31	1.34
44	L7	234	GLU	CG-CD	6.01	1.60	1.51
85	5	356	C	C4-N4	-6.01	1.28	1.33
85	5	1114	U	C2-N3	-6.01	1.33	1.37
85	5	2163	C	N1-C6	-6.01	1.33	1.37
85	5	2590	A	C5-C6	-6.01	1.35	1.41
85	5	2627	C	N1-C2	-6.01	1.34	1.40
36	1	1159	A	C6-N1	-6.00	1.31	1.35
36	1	1099	A	N3-C4	-6.00	1.31	1.34
36	1	1370	G	C8-N7	-6.00	1.27	1.30
36	1	2094	C	N1-C6	6.00	1.40	1.37
36	1	2378	C	C5-C6	-6.00	1.29	1.34
36	1	2828	G	N1-C2	-6.00	1.32	1.37
36	1	3213	A	C5-C6	-6.00	1.35	1.41
80	6	393	C	N3-C4	-6.00	1.29	1.33
85	5	55	G	N3-C4	-6.00	1.31	1.35
85	5	55	G	N9-C4	-6.00	1.33	1.38
1	2	223	U	C2-N3	6.00	1.42	1.37
36	1	2763	U	N1-C6	-6.00	1.32	1.38
85	5	837	A	N7-C5	-6.00	1.35	1.39
85	5	854	G	C5-C4	-6.00	1.34	1.38
85	5	879	U	C2-N3	-6.00	1.33	1.37
85	5	1155	C	N3-C4	-6.00	1.29	1.33
85	5	1468	A	N7-C5	-6.00	1.35	1.39
85	5	2276	G	C5-C6	-6.00	1.36	1.42
85	5	2335	G	C2-N2	-6.00	1.28	1.34
85	5	3149	G	N9-C4	-6.00	1.33	1.38
50	m4	63	VAL	CB-CG2	-6.00	1.40	1.52
38	4	50	C	N1-C6	-6.00	1.33	1.37
85	5	1883	A	N9-C4	-6.00	1.34	1.37
1	2	325	G	N7-C5	-6.00	1.35	1.39
80	6	678	A	C6-N1	6.00	1.39	1.35
85	5	1862	U	N3-C4	6.00	1.43	1.38
85	5	2988	C	N1-C2	-6.00	1.34	1.40
85	5	2991	A	N3-C4	-6.00	1.31	1.34
36	1	3351	U	C2-N3	6.00	1.42	1.37
1	2	625	C	N3-C4	-6.00	1.29	1.33
36	1	997	A	N3-C4	-6.00	1.31	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	3114	A	N1-C2	-6.00	1.28	1.34
85	5	1893	A	N9-C4	-6.00	1.34	1.37
85	5	2841	G	N9-C8	-6.00	1.33	1.37
36	1	71	A	C5-C4	-5.99	1.34	1.38
36	1	1486	G	N9-C4	-5.99	1.33	1.38
36	1	1613	A	N9-C8	-5.99	1.32	1.37
36	1	2145	A	C5-C6	-5.99	1.35	1.41
36	1	2270	A	C5-C4	-5.99	1.34	1.38
36	1	2957	G	P-O5'	-5.99	1.53	1.59
80	6	386	G	N1-C2	-5.99	1.32	1.37
80	6	1786	G	N9-C8	-5.99	1.33	1.37
85	5	1913	A	C5-C6	-5.99	1.35	1.41
85	5	2130	G	N9-C4	-5.99	1.33	1.38
85	5	2703	A	C5-C4	-5.99	1.34	1.38
85	5	2829	U	N1-C2	-5.99	1.33	1.38
36	1	506	U	N1-C2	-5.99	1.33	1.38
36	1	1209	G	N9-C8	-5.99	1.33	1.37
85	5	1118	C	N1-C6	-5.99	1.33	1.37
1	2	1015	G	N7-C5	-5.99	1.35	1.39
36	1	838	G	N9-C8	-5.99	1.33	1.37
36	1	1807	G	N7-C5	-5.99	1.35	1.39
80	6	202	A	N9-C4	5.99	1.41	1.37
85	5	402	A	C6-N1	-5.99	1.31	1.35
85	5	649	A	N3-C4	-5.99	1.31	1.34
85	5	1096	U	N3-C4	5.99	1.43	1.38
38	8	80	A	C3'-O3'	5.99	1.50	1.42
57	n1	34	TYR	CD1-CE1	-5.99	1.30	1.39
36	1	1134	G	C6-N1	-5.99	1.35	1.39
36	1	2425	G	N1-C2	-5.99	1.32	1.37
36	1	2525	G	N9-C8	-5.99	1.33	1.37
85	5	910	G	N9-C4	-5.99	1.33	1.38
85	5	2982	A	N9-C4	-5.99	1.34	1.37
85	5	1843	C	N1-C6	-5.99	1.33	1.37
85	5	2187	G	C5-C6	-5.99	1.36	1.42
37	7	99	G	N9-C8	-5.99	1.33	1.37
56	n0	91	TYR	CE1-CZ	-5.99	1.30	1.38
1	2	1587	U	C2-N3	5.99	1.42	1.37
36	1	921	A	C6-N6	-5.99	1.29	1.33
36	1	2180	G	N3-C4	-5.99	1.31	1.35
36	1	2298	U	N3-C4	-5.99	1.33	1.38
36	1	2957	G	C8-N7	-5.99	1.27	1.30
80	6	50	C	N1-C6	-5.99	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	541	A	N3-C4	5.99	1.38	1.34
85	5	2948	C	C4-C5	-5.99	1.38	1.43
36	1	358	G	C5-C4	-5.98	1.34	1.38
36	1	743	C	N3-C4	-5.98	1.29	1.33
36	1	962	A	N9-C8	-5.98	1.32	1.37
85	5	268	A	N3-C4	-5.98	1.31	1.34
1	2	1449	G	N9-C4	5.98	1.42	1.38
36	1	17	G	C5-C6	-5.98	1.36	1.42
36	1	953	G	C6-N1	-5.98	1.35	1.39
36	1	2609	A	N9-C4	-5.98	1.34	1.37
36	1	2878	G	N9-C4	-5.98	1.33	1.38
36	1	3203	U	N1-C2	-5.98	1.33	1.38
36	1	3307	A	C5-C6	-5.98	1.35	1.41
36	1	3362	A	N9-C8	5.98	1.42	1.37
85	5	368	G	N7-C5	-5.98	1.35	1.39
85	5	2135	U	N1-C2	-5.98	1.33	1.38
85	5	2705	A	N7-C5	-5.98	1.35	1.39
36	1	2630	C	O3'-P	-5.98	1.53	1.61
80	6	355	G	C5-C4	-5.98	1.34	1.38
80	6	1781	A	C5-C6	-5.98	1.35	1.41
85	5	424	G	N9-C8	-5.98	1.33	1.37
85	5	1197	A	N7-C5	-5.98	1.35	1.39
36	1	2781	U	N1-C2	-5.98	1.33	1.38
85	5	35	A	C5-C4	-5.98	1.34	1.38
85	5	1310	G	N9-C4	-5.98	1.33	1.38
85	5	2691	A	N7-C5	-5.98	1.35	1.39
85	5	3245	A	C5-C4	5.98	1.43	1.38
36	1	958	C	C2-N3	-5.98	1.30	1.35
36	1	2604	U	N1-C2	-5.98	1.33	1.38
57	N1	72	VAL	CB-CG1	-5.98	1.40	1.52
80	6	1735	U	N3-C4	-5.98	1.33	1.38
44	17	229	PHE	CE2-CZ	-5.98	1.25	1.37
1	2	921	G	N7-C5	-5.98	1.35	1.39
36	1	588	G	N7-C5	-5.98	1.35	1.39
85	5	196	G	C6-O6	5.98	1.29	1.24
85	5	3036	G	N3-C4	-5.98	1.31	1.35
36	1	1299	U	C4-C5	-5.97	1.38	1.43
36	1	2275	A	N9-C4	-5.97	1.34	1.37
80	6	1778	G	C5-C4	-5.97	1.34	1.38
85	5	1099	A	N3-C4	-5.97	1.31	1.34
85	5	3176	G	N1-C2	-5.97	1.32	1.37
1	2	264	G	N9-C4	-5.97	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2	1329	A	C5-C4	5.97	1.43	1.38
36	1	980	A	N9-C4	5.97	1.41	1.37
38	4	89	A	N9-C4	-5.97	1.34	1.37
80	6	423	G	C2-N3	-5.97	1.27	1.32
36	1	607	A	N9-C4	-5.97	1.34	1.37
36	1	2936	A	N9-C4	-5.97	1.34	1.37
85	5	3395	G	C2'-C1'	5.97	1.59	1.53
1	2	1382	C	N3-C4	5.97	1.38	1.33
36	1	1431	G	N1-C2	-5.97	1.32	1.37
36	1	3296	A	C5-C4	-5.97	1.34	1.38
85	5	726	G	C5-C6	-5.97	1.36	1.42
85	5	1158	A	C6-N1	-5.97	1.31	1.35
85	5	1428	A	C6-N6	-5.97	1.29	1.33
85	5	3097	C	N1-C2	-5.97	1.34	1.40
39	L2	168	VAL	CB-CG1	-5.97	1.40	1.52
1	2	538	A	N3-C4	5.97	1.38	1.34
36	1	645	A	C6-N6	-5.97	1.29	1.33
36	1	2118	C	N3-C4	-5.97	1.29	1.33
85	5	62	A	N7-C5	-5.97	1.35	1.39
85	5	1118	C	N3-C4	-5.97	1.29	1.33
85	5	2719	U	C2-N3	-5.97	1.33	1.37
36	1	919	U	C2-O2	-5.96	1.17	1.22
36	1	1348	U	N3-C4	5.96	1.43	1.38
36	1	1874	A	N9-C4	-5.96	1.34	1.37
36	1	2321	A	C5-C4	-5.96	1.34	1.38
37	3	17	A	C6-N1	-5.96	1.31	1.35
41	L4	304	GLN	CG-CD	5.96	1.64	1.51
85	5	2814	G	N3-C4	-5.96	1.31	1.35
85	5	2990	G	N9-C8	-5.96	1.33	1.37
36	1	1435	A	N1-C2	-5.96	1.28	1.34
36	1	2293	C	N3-C4	5.96	1.38	1.33
80	6	1740	A	N3-C4	-5.96	1.31	1.34
38	8	58	G	N3-C4	-5.96	1.31	1.35
57	n1	51	GLY	C-N	-5.96	1.20	1.34
36	1	1152	G	C6-O6	-5.96	1.18	1.24
36	1	1222	G	N7-C5	5.96	1.42	1.39
36	1	1577	G	C6-N1	5.96	1.43	1.39
80	6	834	G	N3-C4	5.96	1.39	1.35
80	6	1552	U	N1-C2	-5.96	1.33	1.38
85	5	952	A	N9-C4	-5.96	1.34	1.37
85	5	1505	C	N3-C4	-5.96	1.29	1.33
85	5	2287	C	C2-O2	-5.96	1.19	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2430	A	N7-C5	-5.96	1.35	1.39
85	5	2833	A	C5-C4	-5.96	1.34	1.38
85	5	2857	C	N1-C6	-5.96	1.33	1.37
85	5	3023	U	C4-C5	-5.96	1.38	1.43
73	o7	8	PHE	CB-CG	-5.96	1.41	1.51
36	1	865	U	N1-C6	-5.96	1.32	1.38
36	1	2686	A	N7-C5	-5.96	1.35	1.39
36	1	2942	C	N1-C6	-5.96	1.33	1.37
80	6	1781	A	C6-N1	-5.96	1.31	1.35
36	1	1544	G	N1-C2	-5.96	1.32	1.37
36	1	2356	A	N9-C4	-5.96	1.34	1.37
85	5	2371	G	C5-C4	-5.96	1.34	1.38
85	5	3084	C	C2-N3	-5.96	1.30	1.35
36	1	1898	G	N1-C2	-5.96	1.32	1.37
36	1	2286	U	C2-O2	-5.96	1.17	1.22
80	6	579	A	N9-C8	5.96	1.42	1.37
80	6	680	U	N1-C2	5.96	1.44	1.38
80	6	1573	A	C6-N1	-5.96	1.31	1.35
85	5	94	G	C6-N1	-5.96	1.35	1.39
85	5	3132	C	N3-C4	-5.96	1.29	1.33
85	5	3297	U	N3-C4	-5.96	1.33	1.38
36	1	559	A	C5-C6	-5.96	1.35	1.41
36	1	3046	A	N9-C4	-5.96	1.34	1.37
80	6	366	A	C5-C4	-5.96	1.34	1.38
85	5	2976	A	C6-N1	-5.96	1.31	1.35
36	1	989	A	C5-C6	-5.95	1.35	1.41
36	1	1420	C	C2-N3	-5.95	1.30	1.35
36	1	2408	U	C4-C5	-5.95	1.38	1.43
36	1	2746	A	N9-C4	-5.95	1.34	1.37
36	1	2984	C	N1-C2	-5.95	1.34	1.40
80	6	345	U	N1-C2	-5.95	1.33	1.38
80	6	938	G	N7-C5	-5.95	1.35	1.39
85	5	626	U	C2-O2	-5.95	1.17	1.22
85	5	2580	A	N9-C4	-5.95	1.34	1.37
36	1	3238	G	C6-N1	5.95	1.43	1.39
52	M6	88	VAL	CB-CG1	-5.95	1.40	1.52
80	6	465	G	N7-C5	-5.95	1.35	1.39
80	6	1040	G	C6-N1	5.95	1.43	1.39
36	1	369	A	C6-N1	-5.95	1.31	1.35
36	1	816	A	N9-C4	5.95	1.41	1.37
36	1	3178	A	C5-C6	-5.95	1.35	1.41
80	6	421	A	C6-N1	5.95	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	755	A	N7-C5	-5.95	1.35	1.39
85	5	40	A	N9-C8	-5.95	1.32	1.37
85	5	1293	U	N1-C2	-5.95	1.33	1.38
85	5	1919	G	C2-N3	-5.95	1.27	1.32
85	5	2275	A	N3-C4	-5.95	1.31	1.34
36	1	1222	G	C5-C6	5.95	1.48	1.42
36	1	1889	G	N9-C8	-5.95	1.33	1.37
36	1	3365	U	C2-N3	-5.95	1.33	1.37
85	5	1839	A	N7-C5	-5.95	1.35	1.39
85	5	2917	G	C5-C4	-5.95	1.34	1.38
36	1	2379	U	N3-C4	-5.95	1.33	1.38
36	1	3343	G	N9-C8	-5.95	1.33	1.37
85	5	2661	G	C6-O6	-5.95	1.18	1.24
36	1	1080	A	N3-C4	-5.95	1.31	1.34
36	1	2920	U	C4'-C3'	-5.95	1.46	1.52
36	1	3052	G	N7-C5	-5.95	1.35	1.39
74	O8	13	GLU	CG-CD	5.95	1.60	1.51
85	5	1352	A	O3'-P	5.95	1.68	1.61
85	5	2387	A	C5-C4	-5.95	1.34	1.38
85	5	3026	G	C5-C6	-5.95	1.36	1.42
37	7	82	G	N7-C5	-5.95	1.35	1.39
85	5	2889	C	C4-C5	-5.94	1.38	1.43
36	1	978	G	C5-C6	-5.94	1.36	1.42
36	1	3290	G	C6-N1	5.94	1.43	1.39
85	5	654	C	N1-C2	-5.94	1.34	1.40
85	5	1083	G	C6-N1	-5.94	1.35	1.39
85	5	1360	C	N1-C6	-5.94	1.33	1.37
85	5	3008	A	C6-N1	-5.94	1.31	1.35
85	5	3335	A	C5-C4	-5.94	1.34	1.38
36	1	2613	U	N1-C6	-5.94	1.32	1.38
36	1	3154	C	N1-C6	5.94	1.40	1.37
36	1	3366	G	N3-C4	-5.94	1.31	1.35
85	5	344	A	N3-C4	-5.94	1.31	1.34
1	2	1076	A	N9-C4	-5.94	1.34	1.37
36	1	651	G	C8-N7	-5.94	1.27	1.30
36	1	1135	A	N7-C5	-5.94	1.35	1.39
49	M3	57	VAL	CB-CG1	-5.94	1.40	1.52
85	5	1772	U	C2-N3	5.94	1.42	1.37
1	2	1274	G	N9-C4	-5.94	1.33	1.38
36	1	1843	C	N3-C4	-5.94	1.29	1.33
36	1	2896	A	N7-C5	-5.94	1.35	1.39
85	5	2325	G	C2-N2	-5.94	1.28	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2342	U	C4-C5	-5.94	1.38	1.43
80	6	1044	U	C2-N3	-5.94	1.33	1.37
85	5	26	A	C6-N1	-5.94	1.31	1.35
85	5	651	G	C2-N3	-5.94	1.28	1.32
85	5	2817	A	N3-C4	-5.94	1.31	1.34
36	1	1155	C	C4-N4	-5.93	1.28	1.33
36	1	1512	U	C2-O2	-5.93	1.17	1.22
36	1	1514	G	C5-C6	-5.93	1.36	1.42
36	1	1902	G	N7-C5	-5.93	1.35	1.39
36	1	2881	C	N3-C4	-5.93	1.29	1.33
80	6	1160	A	N3-C4	-5.93	1.31	1.34
85	5	348	A	N7-C5	-5.93	1.35	1.39
85	5	356	C	N1-C6	-5.93	1.33	1.37
85	5	1035	G	N9-C4	5.93	1.42	1.38
85	5	1895	A	C5-C6	-5.93	1.35	1.41
85	5	1913	A	N3-C4	-5.93	1.31	1.34
85	5	2359	C	C5-C6	-5.93	1.29	1.34
85	5	3006	A	C6-N1	-5.93	1.31	1.35
38	8	7	U	C2-N3	-5.93	1.33	1.37
36	1	304	G	N3-C4	-5.93	1.31	1.35
36	1	1104	G	N3-C4	-5.93	1.31	1.35
36	1	2877	G	N3-C4	-5.93	1.31	1.35
85	5	2706	G	N1-C2	-5.93	1.33	1.37
43	16	9	TRP	CE3-CZ3	5.93	1.48	1.38
36	1	635	G	C6-N1	-5.93	1.35	1.39
36	1	1589	A	C6-N1	-5.93	1.31	1.35
36	1	2721	A	C6-N1	-5.93	1.31	1.35
36	1	2738	A	C5-C4	-5.93	1.34	1.38
36	1	2897	A	C5-C4	-5.93	1.34	1.38
36	1	3315	G	N9-C8	-5.93	1.33	1.37
52	M6	16	VAL	CB-CG1	-5.93	1.40	1.52
85	5	3088	G	N9-C8	-5.93	1.33	1.37
38	8	39	G	C6-N1	-5.93	1.35	1.39
41	14	71	VAL	CB-CG1	-5.93	1.40	1.52
36	1	583	G	N1-C2	-5.93	1.33	1.37
36	1	1354	G	N3-C4	5.93	1.39	1.35
38	4	140	G	N3-C4	-5.93	1.31	1.35
80	6	1160	A	C6-N1	-5.93	1.31	1.35
36	1	1182	A	N3-C4	-5.93	1.31	1.34
36	1	1889	G	C5-C4	-5.93	1.34	1.38
80	6	567	A	N9-C4	-5.93	1.34	1.37
85	5	1446	A	N9-C8	-5.93	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1857	C	N3-C4	-5.93	1.29	1.33
85	5	2892	A	N9-C4	-5.93	1.34	1.37
85	5	189	G	N1-C2	-5.92	1.33	1.37
85	5	1079	A	N7-C5	-5.92	1.35	1.39
54	m8	62	VAL	CB-CG1	-5.92	1.40	1.52
36	1	220	G	N9-C4	-5.92	1.33	1.38
36	1	412	G	C6-N1	-5.92	1.35	1.39
36	1	1857	C	N1-C6	-5.92	1.33	1.37
85	5	207	U	C4-O4	-5.92	1.19	1.23
85	5	406	G	N1-C2	-5.92	1.33	1.37
85	5	1886	A	C5-C4	-5.92	1.34	1.38
36	1	870	G	C5-C4	-5.92	1.34	1.38
36	1	2413	A	C6-N6	-5.92	1.29	1.33
80	6	353	A	N3-C4	-5.92	1.31	1.34
80	6	1065	A	C5-C6	-5.92	1.35	1.41
80	6	1204	A	N3-C4	-5.92	1.31	1.34
85	5	360	G	N9-C4	5.92	1.42	1.38
85	5	2860	U	C2-N3	5.92	1.41	1.37
85	5	2950	G	N1-C2	-5.92	1.33	1.37
85	5	3044	G	N9-C4	-5.92	1.33	1.38
36	1	1809	A	N9-C8	-5.92	1.33	1.37
36	1	2150	G	N3-C4	-5.92	1.31	1.35
36	1	2830	G	N9-C8	-5.92	1.33	1.37
85	5	2863	G	C6-N1	-5.92	1.35	1.39
85	5	2928	C	N1-C2	-5.92	1.34	1.40
85	5	2973	G	N7-C5	-5.92	1.35	1.39
1	2	10	G	C5-C6	5.92	1.48	1.42
36	1	368	G	N7-C5	-5.92	1.35	1.39
36	1	2127	U	N1-C6	-5.92	1.32	1.38
85	5	736	A	C5-C4	5.92	1.42	1.38
36	1	2633	U	N1-C2	-5.92	1.33	1.38
85	5	920	A	N7-C5	-5.92	1.35	1.39
85	5	2381	G	C3'-C2'	-5.92	1.46	1.52
85	5	2756	C	C4-C5	-5.92	1.38	1.43
85	5	2950	G	C8-N7	-5.92	1.27	1.30
85	5	2982	A	C6-N1	-5.92	1.31	1.35
85	5	3085	G	C6-N1	-5.92	1.35	1.39
1	2	425	A	N3-C4	-5.92	1.31	1.34
80	6	25	C	C2-N3	5.92	1.40	1.35
36	1	367	A	N7-C5	-5.91	1.35	1.39
36	1	1153	A	C5-C6	-5.91	1.35	1.41
80	6	683	C	N1-C6	5.91	1.40	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	353	G	N9-C8	-5.91	1.33	1.37
85	5	896	A	N9-C8	-5.91	1.33	1.37
85	5	3140	G	N1-C2	-5.91	1.33	1.37
85	5	3245	A	N9-C4	-5.91	1.34	1.37
36	1	1129	A	N7-C5	-5.91	1.35	1.39
80	6	1768	G	N9-C4	-5.91	1.33	1.38
85	5	1857	C	N1-C6	-5.91	1.33	1.37
85	5	2395	G	N9-C8	5.91	1.42	1.37
85	5	2547	A	N9-C4	5.91	1.41	1.37
85	5	2769	A	N7-C5	5.91	1.42	1.39
1	2	358	U	C2-N3	-5.91	1.33	1.37
36	1	609	G	C6-O6	-5.91	1.18	1.24
36	1	843	A	N9-C4	-5.91	1.34	1.37
36	1	2366	C	N3-C4	-5.91	1.29	1.33
36	1	2621	G	C5-C6	-5.91	1.36	1.42
36	1	2730	G	N3-C4	-5.91	1.31	1.35
36	1	3286	G	N9-C4	5.91	1.42	1.38
80	6	1070	C	N3-C4	5.91	1.38	1.33
80	6	1583	A	N9-C4	-5.91	1.34	1.37
85	5	1507	G	N1-C2	-5.91	1.33	1.37
85	5	2119	A	C6-N1	-5.91	1.31	1.35
85	5	2509	U	N1-C2	5.91	1.43	1.38
36	1	1844	C	N1-C2	-5.91	1.34	1.40
36	1	2370	G	N9-C8	-5.91	1.33	1.37
36	1	2661	G	N7-C5	-5.91	1.35	1.39
85	5	154	U	N1-C6	-5.91	1.32	1.38
85	5	1789	G	N9-C8	-5.91	1.33	1.37
85	5	1817	G	C6-N1	5.91	1.43	1.39
85	5	2296	A	P-OP1	-5.91	1.39	1.49
85	5	2318	U	N1-C6	-5.91	1.32	1.38
85	5	2759	U	C2-O2	-5.91	1.17	1.22
85	5	2801	A	N1-C2	-5.91	1.29	1.34
37	7	8	G	N1-C2	-5.91	1.33	1.37
59	n3	95	PHE	CB-CG	-5.91	1.41	1.51
80	6	333	A	C5-C6	-5.91	1.35	1.41
36	1	2123	G	C5-C4	-5.91	1.34	1.38
36	1	2817	A	N3-C4	-5.91	1.31	1.34
36	1	3322	A	N9-C4	-5.91	1.34	1.37
40	L3	122	TRP	CB-CG	-5.91	1.39	1.50
85	5	864	G	C5-C6	-5.91	1.36	1.42
85	5	2399	A	C5-C6	-5.91	1.35	1.41
85	5	2799	A	N9-C4	-5.91	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	3299	A	N9-C8	-5.91	1.33	1.37
38	4	3	A	N9-C8	-5.90	1.33	1.37
85	5	614	C	N3-C4	-5.90	1.29	1.33
85	5	3327	G	C5-C6	5.90	1.48	1.42
36	1	240	U	C2-N3	5.90	1.41	1.37
36	1	828	A	N3-C4	-5.90	1.31	1.34
36	1	1450	G	N1-C2	-5.90	1.33	1.37
80	6	1787	C	N1-C6	-5.90	1.33	1.37
85	5	878	G	N1-C2	-5.90	1.33	1.37
85	5	2666	C	N1-C2	-5.90	1.34	1.40
1	2	1653	G	N9-C8	-5.90	1.33	1.37
36	1	2994	A	O3'-P	-5.90	1.54	1.61
38	4	35	C	C4-C5	-5.90	1.38	1.43
85	5	1374	G	C5-C4	-5.90	1.34	1.38
37	7	42	A	N9-C4	-5.90	1.34	1.37
36	1	2414	G	C5-C4	-5.90	1.34	1.38
36	1	3274	A	N7-C5	-5.90	1.35	1.39
80	6	393	C	C2-N3	-5.90	1.31	1.35
80	6	1014	G	N9-C8	-5.90	1.33	1.37
85	5	820	A	N9-C4	-5.90	1.34	1.37
85	5	2338	C	N3-C4	-5.90	1.29	1.33
1	2	28	A	C6-N1	-5.90	1.31	1.35
36	1	2739	A	C6-N1	5.90	1.39	1.35
80	6	1100	G	N3-C4	-5.90	1.31	1.35
85	5	1165	A	N9-C8	-5.90	1.33	1.37
85	5	2131	A	C5-C6	-5.90	1.35	1.41
85	5	2356	A	N7-C5	-5.90	1.35	1.39
38	8	44	A	C5-C4	-5.90	1.34	1.38
36	1	559	A	N7-C5	-5.90	1.35	1.39
36	1	67	A	C6-N1	-5.89	1.31	1.35
36	1	109	A	N7-C5	-5.89	1.35	1.39
36	1	1158	A	N7-C5	-5.89	1.35	1.39
38	4	25	G	N7-C5	-5.89	1.35	1.39
68	O2	28	VAL	CB-CG1	-5.89	1.40	1.52
85	5	1931	U	C2-N3	-5.89	1.33	1.37
85	5	3088	G	N1-C2	-5.89	1.33	1.37
37	7	75	G	N9-C4	-5.89	1.33	1.38
1	2	599	A	N3-C4	-5.89	1.31	1.34
36	1	953	G	C5-C4	-5.89	1.34	1.38
80	6	45	U	N3-C4	-5.89	1.33	1.38
85	5	38	U	C5-C6	-5.89	1.28	1.34
85	5	89	A	N7-C5	-5.89	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1055	A	C5-C4	-5.89	1.34	1.38
59	n3	79	VAL	CB-CG1	-5.89	1.40	1.52
36	1	2694	A	N3-C4	-5.89	1.31	1.34
85	5	165	A	N9-C8	5.89	1.42	1.37
85	5	965	A	C6-N6	-5.89	1.29	1.33
85	5	967	A	N7-C5	-5.89	1.35	1.39
85	5	998	A	C6-N1	-5.89	1.31	1.35
38	8	125	U	N1-C2	5.89	1.43	1.38
36	1	1184	A	N3-C4	-5.89	1.31	1.34
36	1	1890	U	N1-C6	-5.89	1.32	1.38
80	6	294	C	N1-C6	-5.89	1.33	1.37
80	6	1645	G	C5-C6	-5.89	1.36	1.42
85	5	714	G	C5-C4	-5.89	1.34	1.38
85	5	946	U	C4'-C3'	-5.89	1.46	1.52
85	5	1843	C	C4-C5	-5.89	1.38	1.43
85	5	3042	U	N1-C2	-5.89	1.33	1.38
36	1	632	G	N9-C4	-5.89	1.33	1.38
36	1	930	U	P-OP2	-5.89	1.39	1.49
38	4	8	C	N3-C4	-5.89	1.29	1.33
85	5	40	A	C5-C6	-5.89	1.35	1.41
68	o2	28	VAL	CB-CG1	-5.89	1.40	1.52
36	1	60	A	C5-C4	-5.89	1.34	1.38
36	1	2626	A	C6-N1	-5.89	1.31	1.35
85	5	506	U	N1-C2	-5.89	1.33	1.38
85	5	614	C	C5-C6	-5.89	1.29	1.34
85	5	1809	A	N9-C4	-5.89	1.34	1.37
85	5	2243	A	N9-C8	-5.89	1.33	1.37
85	5	2721	A	C6-N1	-5.89	1.31	1.35
85	5	2906	C	N1-C2	-5.89	1.34	1.40
38	8	54	A	N7-C5	-5.89	1.35	1.39
36	1	2372	A	N9-C8	-5.88	1.33	1.37
36	1	3022	G	C5-C6	-5.88	1.36	1.42
85	5	437	G	N9-C8	5.88	1.42	1.37
85	5	689	U	C2-O2	-5.88	1.17	1.22
85	5	789	A	N7-C5	-5.88	1.35	1.39
85	5	2945	G	N9-C8	-5.88	1.33	1.37
37	7	118	A	N3-C4	-5.88	1.31	1.34
36	1	1438	U	P-O5'	-5.88	1.53	1.59
85	5	54	C	N1-C2	-5.88	1.34	1.40
85	5	313	A	N7-C5	-5.88	1.35	1.39
36	1	1051	U	N1-C6	-5.88	1.32	1.38
49	M3	57	VAL	CB-CG2	-5.88	1.40	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	1322	A	N3-C4	-5.88	1.31	1.34
85	5	172	G	C5-C6	5.88	1.48	1.42
85	5	697	A	C5-C4	5.88	1.42	1.38
36	1	1905	G	C5-C4	-5.88	1.34	1.38
80	6	782	U	N1-C2	5.88	1.43	1.38
36	1	1731	A	C6-N1	-5.88	1.31	1.35
36	1	2825	C	N3-C4	-5.88	1.29	1.33
36	1	3111	U	P-OP2	5.88	1.58	1.49
80	6	17	C	N3-C4	-5.88	1.29	1.33
80	6	336	G	C5-C4	-5.88	1.34	1.38
80	6	1109	G	C5-C4	5.88	1.42	1.38
85	5	703	G	N7-C5	-5.88	1.35	1.39
85	5	2559	U	N3-C4	-5.88	1.33	1.38
59	n3	122	CYS	CB-SG	-5.88	1.72	1.81
61	n5	77	GLU	CB-CG	5.88	1.63	1.52
1	2	505	A	N3-C4	5.88	1.38	1.34
1	2	1485	G	N1-C2	-5.88	1.33	1.37
36	1	97	U	N1-C2	-5.88	1.33	1.38
36	1	318	A	N7-C5	-5.88	1.35	1.39
36	1	831	G	N9-C8	-5.88	1.33	1.37
36	1	1100	U	N1-C6	-5.88	1.32	1.38
36	1	2636	A	C5-C6	-5.88	1.35	1.41
36	1	2675	C	N1-C6	-5.88	1.33	1.37
36	1	3153	U	N1-C6	5.88	1.43	1.38
80	6	951	A	N9-C4	-5.88	1.34	1.37
85	5	1889	G	C8-N7	-5.88	1.27	1.30
36	1	3184	A	C6-N6	-5.88	1.29	1.33
80	6	336	G	N9-C4	-5.88	1.33	1.38
80	6	625	C	N1-C2	-5.88	1.34	1.40
85	5	421	G	N9-C4	-5.88	1.33	1.38
85	5	1011	A	N9-C4	-5.88	1.34	1.37
85	5	1755	C	N1-C6	-5.88	1.33	1.37
85	5	2756	C	C2-O2	-5.88	1.19	1.24
36	1	621	A	N7-C5	5.87	1.42	1.39
80	6	267	U	C2-N3	5.87	1.41	1.37
80	6	818	C	C4-C5	5.87	1.47	1.43
85	5	88	A	N9-C4	-5.87	1.34	1.37
85	5	660	A	N1-C2	-5.87	1.29	1.34
85	5	2661	G	N1-C2	-5.87	1.33	1.37
38	8	5	U	N1-C2	-5.87	1.33	1.38
44	17	133	TYR	CD1-CE1	-5.87	1.30	1.39
79	q3	16	VAL	CB-CG1	-5.87	1.40	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	827	A	N9-C8	-5.87	1.33	1.37
36	1	1181	U	N3-C4	-5.87	1.33	1.38
36	1	1426	C	C2-N3	-5.87	1.31	1.35
36	1	2299	A	C6-N1	-5.87	1.31	1.35
36	1	2400	G	C5-C6	-5.87	1.36	1.42
36	1	2817	A	N9-C8	-5.87	1.33	1.37
80	6	408	C	C2-N3	-5.87	1.31	1.35
80	6	570	A	C5-C6	-5.87	1.35	1.41
80	6	579	A	N9-C4	5.87	1.41	1.37
80	6	1009	U	N1-C2	-5.87	1.33	1.38
85	5	627	U	C2-N3	-5.87	1.33	1.37
85	5	651	G	N3-C4	-5.87	1.31	1.35
85	5	1329	U	N3-C4	-5.87	1.33	1.38
85	5	1820	U	N1-C6	5.87	1.43	1.38
36	1	3155	U	C2-O2	5.87	1.27	1.22
80	6	992	A	C5-C4	-5.87	1.34	1.38
85	5	1145	G	N3-C4	-5.87	1.31	1.35
36	1	350	C	N1-C6	-5.87	1.33	1.37
36	1	2342	U	N1-C6	-5.87	1.32	1.38
36	1	2828	G	C6-N1	-5.87	1.35	1.39
36	1	2902	A	C5-C4	-5.87	1.34	1.38
80	6	426	G	N7-C5	-5.87	1.35	1.39
80	6	1133	A	C5-C4	-5.87	1.34	1.38
80	6	1368	G	N9-C4	-5.87	1.33	1.38
80	6	1714	A	N3-C4	5.87	1.38	1.34
85	5	2909	U	C5-C6	-5.87	1.28	1.34
85	5	3091	A	C6-N6	-5.87	1.29	1.33
38	8	15	G	C5-C4	-5.87	1.34	1.38
53	m7	53	ASP	CB-CG	-5.87	1.39	1.51
1	2	1046	U	C2-N3	5.87	1.41	1.37
85	5	1158	A	P-OP2	-5.87	1.39	1.49
85	5	1481	A	C6-N1	-5.87	1.31	1.35
36	1	1350	A	N9-C8	5.87	1.42	1.37
85	5	813	G	N9-C4	-5.87	1.33	1.38
85	5	2625	C	N1-C2	-5.87	1.34	1.40
1	2	630	A	N9-C8	-5.86	1.33	1.37
36	1	200	C	N1-C2	-5.86	1.34	1.40
36	1	2607	G	C5-C4	-5.86	1.34	1.38
38	4	35	C	N1-C2	-5.86	1.34	1.40
37	7	121	U	C2-O2	5.86	1.27	1.22
36	1	407	A	N3-C4	-5.86	1.31	1.34
36	1	1548	C	N1-C2	-5.86	1.34	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1867	A	N3-C4	-5.86	1.31	1.34
36	1	2379	U	C4-O4	-5.86	1.19	1.23
36	1	43	A	N7-C5	-5.86	1.35	1.39
36	1	46	U	N1-C2	-5.86	1.33	1.38
36	1	414	U	C2-O2	-5.86	1.17	1.22
36	1	2307	G	N3-C4	-5.86	1.31	1.35
85	5	1172	G	C2-N2	-5.86	1.28	1.34
85	5	1871	U	N1-C6	-5.86	1.32	1.38
85	5	2183	A	C5-C4	-5.86	1.34	1.38
85	5	2883	U	C2-O2	-5.86	1.17	1.22
85	5	2962	U	N3-C4	-5.86	1.33	1.38
85	5	3014	U	N3-C4	-5.86	1.33	1.38
36	1	978	G	N3-C4	-5.86	1.31	1.35
36	1	2805	G	N1-C2	-5.86	1.33	1.37
36	1	2957	G	N1-C2	-5.86	1.33	1.37
85	5	1296	C	C4-C5	-5.86	1.38	1.43
85	5	3106	A	C5-C4	-5.86	1.34	1.38
38	8	99	C	C4-C5	-5.86	1.38	1.43
36	1	1760	A	N3-C4	5.86	1.38	1.34
36	1	1932	A	C6-N1	-5.86	1.31	1.35
36	1	2214	A	C5-C4	-5.86	1.34	1.38
36	1	2414	G	C2-N3	-5.86	1.28	1.32
36	1	3341	U	C2-N3	5.86	1.41	1.37
80	6	669	G	N9-C4	5.86	1.42	1.38
85	5	795	G	N3-C4	-5.86	1.31	1.35
85	5	1173	U	C2-N3	-5.86	1.33	1.37
85	5	2895	G	C2-N3	-5.86	1.28	1.32
1	2	1188	C	N1-C2	-5.86	1.34	1.40
1	2	1416	G	C6-N1	-5.86	1.35	1.39
1	2	1798	A	N7-C5	5.86	1.42	1.39
36	1	76	G	C5-C4	-5.86	1.34	1.38
36	1	2420	C	N1-C6	-5.86	1.33	1.37
36	1	2725	U	N1-C6	-5.86	1.32	1.38
85	5	2568	C	N1-C6	5.86	1.40	1.37
85	5	3173	G	C5-C4	-5.86	1.34	1.38
36	1	1390	A	N9-C8	-5.85	1.33	1.37
80	6	328	A	N7-C5	-5.85	1.35	1.39
85	5	3015	G	N7-C5	-5.85	1.35	1.39
36	1	3309	G	N1-C2	-5.85	1.33	1.37
76	Q0	96	CYS	CB-SG	5.85	1.92	1.82
80	6	911	U	N1-C2	5.85	1.43	1.38
80	6	1585	U	C2-N3	-5.85	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	62	A	N9-C4	-5.85	1.34	1.37
85	5	1062	A	C6-N1	-5.85	1.31	1.35
85	5	1762	C	N1-C2	5.85	1.46	1.40
85	5	1929	G	C6-N1	-5.85	1.35	1.39
85	5	2813	A	C8-N7	-5.85	1.27	1.31
36	1	582	G	N9-C4	-5.85	1.33	1.38
80	6	845	G	N9-C8	5.85	1.42	1.37
85	5	3181	C	C2-O2	-5.85	1.19	1.24
36	1	34	A	N3-C4	-5.85	1.31	1.34
36	1	1059	G	N9-C4	-5.85	1.33	1.38
36	1	1381	A	N9-C8	-5.85	1.33	1.37
36	1	1898	G	C6-N1	-5.85	1.35	1.39
80	6	1659	A	C5-C6	-5.85	1.35	1.41
85	5	805	G	C2-N2	-5.85	1.28	1.34
85	5	1077	U	C2-N3	-5.85	1.33	1.37
85	5	1349	G	C5-C6	5.85	1.48	1.42
85	5	1582	C	N3-C4	5.85	1.38	1.33
85	5	3327	G	C2-N3	-5.85	1.28	1.32
38	8	17	A	N3-C4	-5.85	1.31	1.34
36	1	3157	U	N1-C2	5.85	1.43	1.38
36	1	3187	A	N7-C5	-5.85	1.35	1.39
36	1	3311	C	C2-N3	-5.85	1.31	1.35
85	5	963	G	C5-C4	-5.85	1.34	1.38
85	5	2118	C	N1-C6	-5.85	1.33	1.37
36	1	268	A	N3-C4	-5.85	1.31	1.34
36	1	389	A	C6-N1	-5.85	1.31	1.35
42	L5	160	PHE	CD1-CE1	-5.85	1.27	1.39
85	5	327	A	C5-C4	-5.85	1.34	1.38
85	5	2315	G	C5-C6	-5.85	1.36	1.42
85	5	3273	A	C5-C4	-5.85	1.34	1.38
36	1	602	A	C5-C4	5.84	1.42	1.38
36	1	1466	G	N3-C4	-5.84	1.31	1.35
36	1	2760	C	P-O5'	-5.84	1.53	1.59
36	1	3156	U	N3-C4	5.84	1.43	1.38
50	M4	91	CYS	CB-SG	5.84	1.92	1.82
85	5	1428	A	C6-N1	-5.84	1.31	1.35
85	5	2406	C	N1-C2	-5.84	1.34	1.40
38	8	93	U	C2-N3	-5.84	1.33	1.37
36	1	1167	U	C2-N3	-5.84	1.33	1.37
36	1	266	A	C6-N1	-5.84	1.31	1.35
36	1	1609	C	N1-C6	-5.84	1.33	1.37
36	1	2244	A	N9-C8	-5.84	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2895	G	N9-C4	-5.84	1.33	1.38
85	5	1047	A	C5-C4	-5.84	1.34	1.38
85	5	1167	U	N3-C4	-5.84	1.33	1.38
85	5	2898	G	N9-C8	-5.84	1.33	1.37
36	1	1429	G	N3-C4	-5.84	1.31	1.35
36	1	1882	G	N3-C4	-5.84	1.31	1.35
80	6	354	C	N1-C6	-5.84	1.33	1.37
85	5	2915	U	N1-C2	-5.84	1.33	1.38
36	1	2130	G	C6-N1	-5.84	1.35	1.39
36	1	2989	U	C4-C5	-5.84	1.38	1.43
85	5	99	A	C6-N1	-5.84	1.31	1.35
85	5	661	G	C6-N1	-5.84	1.35	1.39
85	5	2396	G	N9-C4	-5.84	1.33	1.38
85	5	2643	A	C5-C4	-5.84	1.34	1.38
36	1	505	G	N9-C8	-5.84	1.33	1.37
36	1	621	A	N9-C4	5.84	1.41	1.37
36	1	710	A	C6-N6	-5.84	1.29	1.33
36	1	2174	G	C2-N2	-5.84	1.28	1.34
36	1	2188	A	N9-C4	-5.84	1.34	1.37
36	1	2445	A	N7-C5	5.84	1.42	1.39
80	6	1740	A	C6-N1	-5.84	1.31	1.35
85	5	1018	G	N9-C4	5.84	1.42	1.38
85	5	1111	U	C5-C6	-5.84	1.28	1.34
85	5	1648	A	N7-C5	-5.84	1.35	1.39
1	2	318	U	N1-C2	-5.83	1.33	1.38
36	1	860	G	N9-C8	-5.83	1.33	1.37
36	1	1159	A	N9-C4	-5.83	1.34	1.37
36	1	1680	G	N3-C4	-5.83	1.31	1.35
85	5	837	A	C5-C6	-5.83	1.35	1.41
85	5	1349	G	C2-N3	5.83	1.37	1.32
85	5	3215	A	C5-C6	-5.83	1.35	1.41
36	1	203	G	N3-C4	-5.83	1.31	1.35
36	1	237	G	N3-C4	5.83	1.39	1.35
36	1	408	A	N7-C5	-5.83	1.35	1.39
36	1	2677	G	N7-C5	-5.83	1.35	1.39
80	6	573	C	N1-C6	-5.83	1.33	1.37
85	5	1303	A	C6-N1	-5.83	1.31	1.35
85	5	2905	U	C2-O2	-5.83	1.17	1.22
38	8	15	G	N7-C5	-5.83	1.35	1.39
36	1	800	G	N9-C4	-5.83	1.33	1.38
36	1	2172	A	N3-C4	-5.83	1.31	1.34
36	1	2200	U	N1-C6	-5.83	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	3155	U	N1-C6	5.83	1.43	1.38
80	6	965	U	N3-C4	-5.83	1.33	1.38
85	5	1342	C	C2-N3	-5.83	1.31	1.35
85	5	2636	A	N1-C2	-5.83	1.29	1.34
85	5	2914	G	C5-C6	-5.83	1.36	1.42
36	1	1612	A	N7-C5	-5.83	1.35	1.39
36	1	2945	G	N3-C4	-5.83	1.31	1.35
80	6	83	G	N1-C2	5.83	1.42	1.37
85	5	1842	A	N3-C4	-5.83	1.31	1.34
1	2	1115	A	N9-C8	-5.83	1.33	1.37
36	1	61	A	N3-C4	-5.83	1.31	1.34
36	1	85	A	N3-C4	-5.83	1.31	1.34
36	1	1220	U	N1-C2	5.83	1.43	1.38
36	1	1813	A	N9-C4	5.83	1.41	1.37
36	1	2981	U	C2-N3	-5.83	1.33	1.37
44	L7	24	GLU	CG-CD	5.83	1.60	1.51
80	6	449	C	N1-C2	-5.83	1.34	1.40
80	6	1665	U	N1-C6	-5.83	1.32	1.38
85	5	1117	G	N7-C5	-5.83	1.35	1.39
85	5	2325	G	N1-C2	-5.83	1.33	1.37
36	1	2152	A	C5-C6	-5.83	1.35	1.41
80	6	269	G	N3-C4	-5.83	1.31	1.35
85	5	1092	C	N1-C6	-5.83	1.33	1.37
85	5	2814	G	N7-C5	-5.83	1.35	1.39
85	5	3241	G	N7-C5	-5.83	1.35	1.39
36	1	35	A	C5-C4	-5.83	1.34	1.38
36	1	206	G	N7-C5	-5.83	1.35	1.39
36	1	2819	A	N7-C5	-5.83	1.35	1.39
80	6	393	C	C2-O2	-5.83	1.19	1.24
85	5	897	U	C2-O2	-5.83	1.17	1.22
85	5	2946	A	C8-N7	-5.83	1.27	1.31
42	l5	79	TYR	CD1-CE1	-5.83	1.30	1.39
36	1	383	G	C5-C4	-5.82	1.34	1.38
36	1	2848	G	C5-C4	-5.82	1.34	1.38
52	M6	64	PHE	CD1-CE1	-5.82	1.27	1.39
80	6	720	G	N7-C5	5.82	1.42	1.39
85	5	523	A	N7-C5	-5.82	1.35	1.39
85	5	843	A	N9-C4	-5.82	1.34	1.37
85	5	967	A	N3-C4	-5.82	1.31	1.34
85	5	1217	A	N3-C4	-5.82	1.31	1.34
85	5	2751	G	N9-C4	-5.82	1.33	1.38
85	5	3384	U	C2-N3	5.82	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	8	20	U	C2-O2	-5.82	1.17	1.22
85	5	2335	G	C5-C4	-5.82	1.34	1.38
1	2	1628	G	C6-N1	-5.82	1.35	1.39
36	1	619	A	N9-C4	5.82	1.41	1.37
36	1	621	A	C6-N6	5.82	1.38	1.33
36	1	1307	G	C6-N1	-5.82	1.35	1.39
36	1	1698	C	N3-C4	-5.82	1.29	1.33
36	1	1867	A	N7-C5	-5.82	1.35	1.39
36	1	1871	U	N3-C4	-5.82	1.33	1.38
38	4	4	C	N1-C2	-5.82	1.34	1.40
85	5	32	U	N3-C4	-5.82	1.33	1.38
85	5	157	A	N3-C4	-5.82	1.31	1.34
85	5	912	G	N9-C8	-5.82	1.33	1.37
85	5	1296	C	N1-C6	-5.82	1.33	1.37
85	5	1637	A	C5-C4	-5.82	1.34	1.38
85	5	1953	G	N3-C4	5.82	1.39	1.35
85	5	2620	G	C5-C4	-5.82	1.34	1.38
40	l3	314	TYR	CE2-CZ	-5.82	1.30	1.38
36	1	67	A	C5-C4	-5.82	1.34	1.38
36	1	894	G	N1-C2	-5.82	1.33	1.37
36	1	1149	G	N3-C4	-5.82	1.31	1.35
64	n8	69	TRP	CB-CG	-5.82	1.39	1.50
1	2	1128	U	C2-N3	5.82	1.41	1.37
85	5	371	G	N9-C4	-5.82	1.33	1.38
85	5	1398	U	C2-O2	-5.82	1.17	1.22
85	5	3386	G	N9-C8	-5.82	1.33	1.37
38	8	157	U	N1-C6	5.82	1.43	1.38
36	1	368	G	C6-N1	-5.82	1.35	1.39
36	1	913	A	N7-C5	-5.82	1.35	1.39
36	1	2328	U	C4-O4	-5.82	1.19	1.23
36	1	2408	U	N1-C2	-5.82	1.33	1.38
80	6	1725	U	C4-O4	5.82	1.28	1.23
85	5	651	G	N9-C8	-5.82	1.33	1.37
85	5	1155	C	C4-N4	-5.82	1.28	1.33
85	5	1196	C	N3-C4	5.82	1.38	1.33
85	5	1395	G	C5-C6	-5.82	1.36	1.42
85	5	1586	G	C6-N1	-5.82	1.35	1.39
85	5	1886	A	C5-C6	-5.82	1.35	1.41
85	5	2922	G	N7-C5	-5.82	1.35	1.39
36	1	295	A	N7-C5	-5.81	1.35	1.39
36	1	1140	G	C6-N1	-5.81	1.35	1.39
36	1	1297	C	N3-C4	-5.81	1.29	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1858	A	N7-C5	-5.81	1.35	1.39
85	5	1144	U	N1-C2	-5.81	1.33	1.38
85	5	2698	G	N9-C4	-5.81	1.33	1.38
35	SM	32	SER	CA-CB	-5.81	1.44	1.52
36	1	1432	C	C4-C5	-5.81	1.38	1.43
36	1	2807	U	N1-C2	-5.81	1.33	1.38
80	6	937	C	N3-C4	-5.81	1.29	1.33
80	6	1599	C	N1-C2	5.81	1.46	1.40
85	5	668	G	C6-N1	-5.81	1.35	1.39
85	5	715	A	N7-C5	-5.81	1.35	1.39
85	5	1085	A	N7-C5	-5.81	1.35	1.39
85	5	2316	G	N9-C4	-5.81	1.33	1.38
85	5	3041	U	C4-C5	-5.81	1.38	1.43
36	1	2832	C	C2-N3	-5.81	1.31	1.35
38	4	115	C	N3-C4	-5.81	1.29	1.33
1	2	1190	C	N3-C4	-5.81	1.29	1.33
1	2	1486	A	C5-C6	-5.81	1.35	1.41
36	1	61	A	C5-C6	-5.81	1.35	1.41
36	1	131	C	N1-C2	5.81	1.46	1.40
36	1	829	U	N1-C6	-5.81	1.32	1.38
36	1	983	A	N9-C8	-5.81	1.33	1.37
36	1	2131	A	N9-C4	-5.81	1.34	1.37
36	1	2158	A	N7-C5	-5.81	1.35	1.39
36	1	3172	A	C6-N1	-5.81	1.31	1.35
37	3	3	U	N1-C2	5.81	1.43	1.38
85	5	2954	U	N3-C4	-5.81	1.33	1.38
36	1	1599	G	C5-C6	-5.81	1.36	1.42
36	1	1637	A	N7-C5	5.81	1.42	1.39
80	6	398	G	C6-N1	-5.81	1.35	1.39
80	6	1112	G	N1-C2	-5.81	1.33	1.37
85	5	582	G	C6-O6	5.81	1.29	1.24
85	5	3104	U	N1-C6	-5.81	1.32	1.38
40	13	86	VAL	CB-CG1	-5.81	1.40	1.52
1	2	1114	A	N3-C4	-5.81	1.31	1.34
36	1	368	G	N1-C2	-5.81	1.33	1.37
36	1	406	G	C6-N1	-5.81	1.35	1.39
85	5	3106	A	C6-N6	-5.81	1.29	1.33
46	19	65	VAL	CB-CG2	-5.81	1.40	1.52
1	2	837	U	C2-N3	5.80	1.41	1.37
36	1	427	C	N1-C2	-5.80	1.34	1.40
36	1	2960	C	N1-C6	-5.80	1.33	1.37
37	3	56	A	N9-C4	-5.80	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
62	N6	38	GLU	CB-CG	5.80	1.63	1.52
80	6	468	A	N9-C4	-5.80	1.34	1.37
36	1	2366	C	N1-C6	-5.80	1.33	1.37
80	6	1125	A	N7-C5	-5.80	1.35	1.39
85	5	1761	C	C2-N3	5.80	1.40	1.35
36	1	1553	U	N1-C2	-5.80	1.33	1.38
36	1	3191	G	N9-C4	-5.80	1.33	1.38
36	1	3337	G	N3-C4	-5.80	1.31	1.35
85	5	547	G	N3-C4	5.80	1.39	1.35
85	5	1143	A	C2'-C1'	-5.80	1.47	1.53
85	5	1354	G	C5-C4	5.80	1.42	1.38
85	5	1521	G	C6-N1	-5.80	1.35	1.39
85	5	2633	U	N3-C4	-5.80	1.33	1.38
85	5	3044	G	C4'-C3'	-5.80	1.46	1.52
37	7	57	G	C8-N7	-5.80	1.27	1.30
62	n6	83	ASP	CB-CG	5.80	1.64	1.51
1	2	617	U	C4-O4	-5.80	1.19	1.23
36	1	2280	A	N3-C4	-5.80	1.31	1.34
36	1	2845	A	N9-C4	5.80	1.41	1.37
36	1	2850	G	N9-C8	-5.80	1.33	1.37
38	4	41	A	C5-C6	5.80	1.46	1.41
41	L4	14	GLU	CD-OE1	5.80	1.32	1.25
85	5	967	A	C5-C4	-5.80	1.34	1.38
85	5	1307	G	C5-C6	-5.80	1.36	1.42
85	5	2376	G	N7-C5	-5.80	1.35	1.39
85	5	3057	U	N3-C4	-5.80	1.33	1.38
37	7	11	A	N7-C5	-5.80	1.35	1.39
36	1	836	A	N9-C8	-5.80	1.33	1.37
36	1	1457	U	N1-C2	-5.80	1.33	1.38
36	1	2334	U	C4-O4	-5.80	1.19	1.23
38	4	6	U	N1-C6	-5.80	1.32	1.38
85	5	1153	A	N3-C4	-5.80	1.31	1.34
85	5	1586	G	C8-N7	-5.80	1.27	1.30
85	5	2229	A	C6-N1	-5.80	1.31	1.35
36	1	49	A	C5-C4	-5.80	1.34	1.38
36	1	1155	C	N3-C4	-5.80	1.29	1.33
36	1	1221	A	N9-C4	5.80	1.41	1.37
36	1	1484	U	N1-C6	-5.80	1.32	1.38
36	1	1603	A	C6-N1	-5.80	1.31	1.35
79	Q3	42	CYS	CB-SG	5.80	1.92	1.82
80	6	1002	G	N7-C5	-5.80	1.35	1.39
85	5	36	C	N3-C4	-5.80	1.29	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	331	G	C6-N1	-5.80	1.35	1.39
85	5	974	G	C6-N1	-5.80	1.35	1.39
85	5	1439	U	C4-O4	-5.80	1.19	1.23
85	5	1507	G	C5-C4	-5.80	1.34	1.38
85	5	1549	U	N1-C2	-5.80	1.33	1.38
44	17	195	PHE	CB-CG	-5.80	1.41	1.51
1	2	1101	G	N7-C5	-5.79	1.35	1.39
36	1	1094	U	C4-O4	5.79	1.28	1.23
39	L2	25	GLY	C-O	-5.79	1.14	1.23
80	6	1388	A	N7-C5	-5.79	1.35	1.39
85	5	2282	U	N3-C4	-5.79	1.33	1.38
37	3	103	A	C5-C4	-5.79	1.34	1.38
85	5	706	A	N9-C8	-5.79	1.33	1.37
85	5	1365	G	N3-C4	-5.79	1.31	1.35
85	5	2160	G	N1-C2	-5.79	1.33	1.37
37	7	86	U	N1-C2	-5.79	1.33	1.38
36	1	427	C	N1-C6	-5.79	1.33	1.37
36	1	1203	A	N9-C8	-5.79	1.33	1.37
36	1	2858	U	C2-O2	-5.79	1.17	1.22
85	5	229	G	C2-N3	-5.79	1.28	1.32
85	5	1149	G	C6-N1	5.79	1.43	1.39
36	1	318	A	C6-N1	-5.79	1.31	1.35
36	1	608	A	N9-C4	5.79	1.41	1.37
85	5	408	A	C5-C4	-5.79	1.34	1.38
85	5	3031	G	N9-C4	-5.79	1.33	1.38
36	1	1002	A	C5-C6	-5.79	1.35	1.41
36	1	1124	U	C2-N3	-5.79	1.33	1.37
36	1	1395	G	N7-C5	-5.79	1.35	1.39
36	1	1528	G	N9-C8	-5.79	1.33	1.37
38	4	3	A	N7-C5	-5.79	1.35	1.39
38	4	14	C	C5-C6	-5.79	1.29	1.34
85	5	564	G	C5-C4	-5.79	1.34	1.38
85	5	679	U	C2-O2	-5.79	1.17	1.22
36	1	657	A	N7-C5	-5.79	1.35	1.39
80	6	1662	G	C6-O6	5.79	1.29	1.24
80	6	483	A	N3-C4	5.79	1.38	1.34
85	5	63	A	N9-C4	-5.79	1.34	1.37
85	5	208	C	C2-N3	5.79	1.40	1.35
85	5	1140	G	C6-O6	-5.79	1.19	1.24
85	5	1802	C	N1-C6	-5.79	1.33	1.37
1	2	367	A	N7-C5	-5.78	1.35	1.39
36	1	437	G	N1-C2	5.78	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1340	G	C6-O6	-5.78	1.19	1.24
36	1	1588	A	N9-C8	-5.78	1.33	1.37
85	5	363	G	C2-N3	-5.78	1.28	1.32
85	5	3323	A	N7-C5	-5.78	1.35	1.39
1	2	410	A	N9-C4	-5.78	1.34	1.37
36	1	2811	A	N7-C5	-5.78	1.35	1.39
85	5	30	G	N3-C4	-5.78	1.31	1.35
85	5	416	A	N7-C5	-5.78	1.35	1.39
85	5	2282	U	N1-C6	-5.78	1.32	1.38
37	7	17	A	N9-C4	-5.78	1.34	1.37
36	1	269	G	N3-C4	-5.78	1.31	1.35
36	1	559	A	N9-C4	-5.78	1.34	1.37
36	1	1117	G	N1-C2	-5.78	1.33	1.37
36	1	1879	A	C6-N1	-5.78	1.31	1.35
36	1	2391	G	N7-C5	-5.78	1.35	1.39
38	4	135	G	N7-C5	-5.78	1.35	1.39
80	6	1680	G	C6-O6	-5.78	1.19	1.24
85	5	2654	C	N3-C4	-5.78	1.29	1.33
38	8	83	C	N3-C4	5.78	1.38	1.33
36	1	66	A	N9-C8	-5.78	1.33	1.37
36	1	2895	G	C5-C4	-5.78	1.34	1.38
85	5	332	C	N1-C6	-5.78	1.33	1.37
36	1	52	A	N3-C4	-5.78	1.31	1.34
36	1	1351	U	N1-C2	5.78	1.43	1.38
80	6	389	G	N7-C5	-5.78	1.35	1.39
85	5	808	A	N7-C5	-5.78	1.35	1.39
85	5	2242	A	N9-C8	-5.78	1.33	1.37
85	5	2825	C	C4-C5	-5.78	1.38	1.43
36	1	1054	A	N9-C8	-5.78	1.33	1.37
36	1	1578	C	C2-O2	5.78	1.29	1.24
36	1	2778	G	C6-N1	-5.78	1.35	1.39
36	1	2927	C	C2-N3	-5.78	1.31	1.35
85	5	1171	G	N7-C5	-5.78	1.35	1.39
85	5	1314	C	C4-C5	-5.78	1.38	1.43
85	5	1351	U	P-O5'	5.78	1.65	1.59
85	5	2201	G	C5-C4	-5.78	1.34	1.38
85	5	2618	G	C5-C4	-5.78	1.34	1.38
85	5	2625	C	C4-C5	-5.78	1.38	1.43
36	1	817	A	N1-C2	-5.77	1.29	1.34
36	1	1047	A	N9-C4	-5.77	1.34	1.37
38	4	33	A	C6-N1	-5.77	1.31	1.35
85	5	810	A	N3-C4	-5.77	1.31	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1319	G	N9-C8	-5.77	1.33	1.37
36	1	364	G	C2-N3	-5.77	1.28	1.32
37	3	114	U	N1-C2	5.77	1.43	1.38
38	4	149	A	N3-C4	-5.77	1.31	1.34
85	5	630	A	N3-C4	-5.77	1.31	1.34
85	5	652	G	C5-C6	5.77	1.48	1.42
85	5	1108	U	C2-N3	-5.77	1.33	1.37
85	5	1528	G	N1-C2	-5.77	1.33	1.37
85	5	1785	U	N1-C2	-5.77	1.33	1.38
85	5	2996	U	C4-C5	5.77	1.48	1.43
37	7	95	A	N3-C4	-5.77	1.31	1.34
52	m6	4	GLU	CB-CG	-5.77	1.41	1.52
56	n0	6	GLU	CB-CG	5.77	1.63	1.52
36	1	101	G	N3-C4	-5.77	1.31	1.35
36	1	186	U	C2-N3	-5.77	1.33	1.37
36	1	287	G	C5-C4	-5.77	1.34	1.38
36	1	3153	U	C4-C5	5.77	1.48	1.43
37	3	121	U	C2-N3	5.77	1.41	1.37
85	5	942	U	C2-O2	-5.77	1.17	1.22
85	5	1020	G	N9-C8	5.77	1.41	1.37
80	6	1118	G	C6-O6	5.77	1.29	1.24
80	6	1623	C	N1-C2	-5.77	1.34	1.40
85	5	284	A	N3-C4	-5.77	1.31	1.34
85	5	880	G	C6-N1	-5.77	1.35	1.39
85	5	1446	A	C5-C6	5.77	1.46	1.41
85	5	2113	A	C6-N6	-5.77	1.29	1.33
85	5	2183	A	N3-C4	-5.77	1.31	1.34
85	5	3033	A	N9-C4	-5.77	1.34	1.37
85	5	3190	C	N1-C6	-5.77	1.33	1.37
71	O5	8	GLU	CG-CD	5.77	1.60	1.51
85	5	215	G	C5-C4	5.77	1.42	1.38
85	5	1053	A	C5-C6	-5.77	1.35	1.41
85	5	1802	C	N3-C4	-5.77	1.29	1.33
85	5	2373	A	N1-C2	-5.77	1.29	1.34
85	5	2928	C	N3-C4	-5.77	1.29	1.33
85	5	3076	C	N1-C2	-5.77	1.34	1.40
36	1	26	A	N9-C8	-5.77	1.33	1.37
36	1	757	C	N3-C4	-5.77	1.29	1.33
60	N4	22	VAL	CB-CG1	-5.77	1.40	1.52
80	6	979	A	N9-C4	5.77	1.41	1.37
1	2	186	C	N1-C2	5.76	1.46	1.40
36	1	180	C	N1-C2	5.76	1.46	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1764	U	N3-C4	5.76	1.43	1.38
36	1	3026	G	N3-C4	-5.76	1.31	1.35
36	1	3083	G	C5-C4	-5.76	1.34	1.38
85	5	101	G	C5-C6	-5.76	1.36	1.42
85	5	1367	G	C6-N1	5.76	1.43	1.39
85	5	2227	C	N1-C6	-5.76	1.33	1.37
85	5	2881	C	N3-C4	-5.76	1.29	1.33
80	6	32	U	C2-N3	5.76	1.41	1.37
36	1	1100	U	C4-O4	-5.76	1.19	1.23
36	1	2972	G	N1-C2	5.76	1.42	1.37
36	1	3178	A	N9-C8	-5.76	1.33	1.37
49	M3	6	ASN	C-N	-5.76	1.20	1.34
80	6	104	A	N7-C5	-5.76	1.35	1.39
85	5	1603	A	C6-N1	-5.76	1.31	1.35
85	5	1614	C	N1-C6	-5.76	1.33	1.37
85	5	1841	A	N9-C4	-5.76	1.34	1.37
85	5	2318	U	C2-N3	5.76	1.41	1.37
85	5	2943	G	C5-C4	-5.76	1.34	1.38
36	1	788	C	C2-N3	-5.76	1.31	1.35
36	1	1806	A	C5-C4	-5.76	1.34	1.38
36	1	2808	A	N9-C4	-5.76	1.34	1.37
85	5	1174	G	N1-C2	-5.76	1.33	1.37
85	5	1338	C	N1-C6	-5.76	1.33	1.37
38	8	13	A	C5-C6	-5.76	1.35	1.41
36	1	2837	A	C6-N1	-5.76	1.31	1.35
36	1	2920	U	N1-C2	-5.76	1.33	1.38
64	N8	90	TYR	CD1-CE1	-5.76	1.30	1.39
80	6	541	A	N9-C8	5.76	1.42	1.37
85	5	2403	G	N3-C4	-5.76	1.31	1.35
85	5	3015	G	N3-C4	-5.76	1.31	1.35
1	2	217	A	C6-N6	5.76	1.38	1.33
1	2	1729	A	C5-C6	-5.76	1.35	1.41
36	1	1140	G	N3-C4	-5.76	1.31	1.35
36	1	2373	A	N7-C5	-5.76	1.35	1.39
80	6	156	A	N3-C4	-5.76	1.31	1.34
85	5	635	G	C5-C6	-5.76	1.36	1.42
85	5	1475	A	N3-C4	-5.76	1.31	1.34
85	5	2389	C	C5-C6	-5.76	1.29	1.34
80	6	483	A	C5-C4	5.75	1.42	1.38
85	5	1927	G	N3-C4	-5.75	1.31	1.35
85	5	2953	U	C2-N3	-5.75	1.33	1.37
85	5	2968	G	N3-C4	-5.75	1.31	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	217	A	N9-C4	5.75	1.41	1.37
80	6	427	C	C2-O2	-5.75	1.19	1.24
85	5	283	G	C6-O6	-5.75	1.19	1.24
85	5	1114	U	P-O5'	-5.75	1.53	1.59
85	5	1351	U	N1-C6	5.75	1.43	1.38
85	5	2293	C	C2-N3	-5.75	1.31	1.35
85	5	2732	G	N7-C5	-5.75	1.35	1.39
85	5	3076	C	N3-C4	-5.75	1.29	1.33
36	1	920	A	C6-N1	-5.75	1.31	1.35
80	6	394	C	N1-C6	-5.75	1.33	1.37
80	6	606	A	C3'-C2'	5.75	1.59	1.52
85	5	1949	G	N1-C2	5.75	1.42	1.37
85	5	2126	A	C5-C4	-5.75	1.34	1.38
85	5	3132	C	C2-O2	-5.75	1.19	1.24
38	8	63	G	C6-N1	-5.75	1.35	1.39
36	1	437	G	N9-C8	5.75	1.41	1.37
36	1	1103	A	N9-C8	5.75	1.42	1.37
36	1	2678	A	N3-C4	-5.75	1.31	1.34
85	5	1785	U	C2-N3	-5.75	1.33	1.37
36	1	96	G	C6-O6	-5.75	1.19	1.24
36	1	547	G	N3-C4	5.75	1.39	1.35
36	1	1441	G	C5-C4	-5.75	1.34	1.38
36	1	2891	U	N1-C2	-5.75	1.33	1.38
52	M6	81	TYR	CB-CG	-5.75	1.43	1.51
80	6	1244	A	N9-C4	5.75	1.41	1.37
85	5	2797	C	N1-C6	-5.75	1.33	1.37
36	1	1750	A	N3-C4	-5.75	1.31	1.34
36	1	1850	A	N3-C4	-5.75	1.31	1.34
36	1	2313	A	N7-C5	-5.75	1.35	1.39
36	1	2369	G	C6-N1	-5.75	1.35	1.39
80	6	1214	U	N3-C4	5.75	1.43	1.38
85	5	91	G	C5-C4	-5.75	1.34	1.38
85	5	202	G	N9-C4	-5.75	1.33	1.38
85	5	1444	G	N9-C4	-5.75	1.33	1.38
85	5	2633	U	N1-C2	-5.75	1.33	1.38
85	5	3197	G	C5-C6	5.75	1.48	1.42
1	2	1583	A	N3-C4	-5.75	1.31	1.34
85	5	182	U	C2-N3	5.75	1.41	1.37
37	7	55	A	C6-N6	-5.75	1.29	1.33
52	m6	199	TYR	CD2-CE2	-5.75	1.30	1.39
36	1	871	U	N1-C6	-5.74	1.32	1.38
36	1	2605	G	N9-C8	-5.74	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2630	C	N1-C2	-5.74	1.34	1.40
36	1	2981	U	C2-O2	-5.74	1.17	1.22
80	6	426	G	N3-C4	-5.74	1.31	1.35
80	6	780	A	N9-C4	5.74	1.41	1.37
80	6	1703	C	N1-C6	5.74	1.40	1.37
85	5	813	G	N3-C4	-5.74	1.31	1.35
85	5	1213	G	N9-C8	-5.74	1.33	1.37
85	5	1667	A	C5-C6	-5.74	1.35	1.41
36	1	595	G	N1-C2	5.74	1.42	1.37
80	6	313	U	C2-N3	-5.74	1.33	1.37
80	6	627	C	N1-C6	-5.74	1.33	1.37
85	5	220	G	C6-N1	-5.74	1.35	1.39
85	5	357	A	N9-C8	-5.74	1.33	1.37
85	5	2125	A	N7-C5	-5.74	1.35	1.39
85	5	2646	C	C4-N4	-5.74	1.28	1.33
38	8	84	C	N1-C2	5.74	1.45	1.40
1	2	1631	A	N9-C4	-5.74	1.34	1.37
36	1	583	G	C2-N3	-5.74	1.28	1.32
36	1	620	U	C3'-C2'	5.74	1.59	1.52
36	1	2606	G	N9-C4	-5.74	1.33	1.38
36	1	3266	G	N9-C8	-5.74	1.33	1.37
38	4	114	G	C2-N3	-5.74	1.28	1.32
85	5	1348	U	C4-O4	5.74	1.28	1.23
85	5	1492	G	N9-C4	-5.74	1.33	1.38
40	l3	226	PHE	CE2-CZ	-5.74	1.26	1.37
36	1	514	G	N3-C4	-5.74	1.31	1.35
36	1	1131	G	C5-C4	-5.74	1.34	1.38
36	1	1166	G	C5-C6	-5.74	1.36	1.42
36	1	2285	C	N3-C4	-5.74	1.29	1.33
36	1	2637	A	N9-C4	-5.74	1.34	1.37
36	1	3296	A	N7-C5	-5.74	1.35	1.39
36	1	3386	G	N3-C4	-5.74	1.31	1.35
80	6	48	G	N7-C5	-5.74	1.35	1.39
85	5	872	U	N3-C4	-5.74	1.33	1.38
85	5	972	A	N9-C8	-5.74	1.33	1.37
1	2	1729	A	N7-C5	-5.74	1.35	1.39
36	1	1340	G	C6-N1	-5.74	1.35	1.39
36	1	1822	C	C2-O2	-5.74	1.19	1.24
36	1	2608	G	N9-C8	-5.74	1.33	1.37
38	4	102	U	N1-C6	-5.74	1.32	1.38
62	N6	127	GLU	CG-CD	5.74	1.60	1.51
85	5	35	A	C5-C6	-5.74	1.35	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	7	9	C	C2-O2	-5.74	1.19	1.24
1	2	1612	G	C6-N1	-5.74	1.35	1.39
36	1	1915	A	C6-N6	-5.74	1.29	1.33
36	1	2315	G	C6-N1	-5.74	1.35	1.39
36	1	2786	G	N7-C5	-5.74	1.35	1.39
36	1	2885	C	C4'-C3'	-5.74	1.46	1.52
85	5	2316	G	N1-C2	-5.74	1.33	1.37
36	1	99	A	N7-C5	-5.73	1.35	1.39
36	1	1839	A	N7-C5	-5.73	1.35	1.39
36	1	2186	U	N3-C4	-5.73	1.33	1.38
52	M6	22	VAL	CB-CG2	-5.73	1.40	1.52
85	5	657	A	C5-C4	-5.73	1.34	1.38
85	5	1193	A	N3-C4	-5.73	1.31	1.34
36	1	198	A	N3-C4	-5.73	1.31	1.34
36	1	2641	U	C4-C5	-5.73	1.38	1.43
80	6	356	G	N1-C2	-5.73	1.33	1.37
80	6	684	A	N3-C4	5.73	1.38	1.34
85	5	1601	U	N1-C2	-5.73	1.33	1.38
85	5	2839	G	C5-C6	-5.73	1.36	1.42
36	1	281	G	C2-N3	-5.73	1.28	1.32
36	1	3275	U	N3-C4	5.73	1.43	1.38
38	4	134	G	C5-C6	-5.73	1.36	1.42
85	5	965	A	C2-N3	-5.73	1.28	1.33
85	5	1168	U	C2-O2	-5.73	1.17	1.22
85	5	1273	A	N9-C4	-5.73	1.34	1.37
85	5	1576	G	C6-N1	5.73	1.43	1.39
85	5	2929	C	C2-O2	-5.73	1.19	1.24
85	5	3059	G	N7-C5	-5.73	1.35	1.39
85	5	3258	U	C4'-C3'	-5.73	1.46	1.52
36	1	1475	A	N9-C4	-5.73	1.34	1.37
36	1	2785	A	N9-C4	-5.73	1.34	1.37
36	1	2908	G	C5-C6	-5.73	1.36	1.42
80	6	1607	G	C6-N1	-5.73	1.35	1.39
85	5	1824	U	N3-C4	-5.73	1.33	1.38
36	1	3015	G	N9-C8	-5.73	1.33	1.37
36	1	3335	A	C5-C4	-5.73	1.34	1.38
80	6	630	A	N3-C4	-5.73	1.31	1.34
85	5	981	U	C2-O2	5.73	1.27	1.22
85	5	1542	G	C8-N7	5.73	1.34	1.30
85	5	3089	C	C2-O2	-5.73	1.19	1.24
36	1	2873	U	N1-C6	-5.73	1.32	1.38
36	1	2920	U	C5-C6	-5.73	1.28	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	950	G	N9-C8	-5.73	1.33	1.37
38	8	137	C	C2-N3	-5.73	1.31	1.35
36	1	362	U	O3'-P	-5.72	1.54	1.61
36	1	2356	A	C6-N1	-5.72	1.31	1.35
80	6	399	A	N9-C4	-5.72	1.34	1.37
85	5	585	A	N7-C5	-5.72	1.35	1.39
85	5	896	A	C6-N1	-5.72	1.31	1.35
85	5	1725	C	N1-C6	-5.72	1.33	1.37
36	1	271	C	N1-C6	-5.72	1.33	1.37
36	1	350	C	C4-C5	-5.72	1.38	1.43
36	1	404	G	N3-C4	-5.72	1.31	1.35
36	1	999	G	N9-C4	5.72	1.42	1.38
36	1	2876	C	N1-C6	-5.72	1.33	1.37
80	6	1200	G	N1-C2	5.72	1.42	1.37
84	sM	78	ASP	CA-C	5.72	1.67	1.52
85	5	1053	A	N9-C4	-5.72	1.34	1.37
85	5	2375	G	C5-C6	-5.72	1.36	1.42
85	5	2523	A	C5-C6	5.72	1.46	1.41
85	5	2790	A	C5-C6	-5.72	1.35	1.41
85	5	39	A	C6-N6	-5.72	1.29	1.33
85	5	659	G	N3-C4	-5.72	1.31	1.35
1	2	312	A	C6-N1	-5.72	1.31	1.35
36	1	364	G	C5-C4	-5.72	1.34	1.38
36	1	2321	A	C6-N1	-5.72	1.31	1.35
36	1	2982	A	N9-C8	-5.72	1.33	1.37
38	4	145	U	C2-N3	-5.72	1.33	1.37
85	5	780	A	N3-C4	-5.72	1.31	1.34
36	1	798	G	N3-C4	-5.72	1.31	1.35
36	1	1145	G	N9-C8	-5.72	1.33	1.37
85	5	635	G	N9-C4	-5.72	1.33	1.38
85	5	3033	A	C5-C4	-5.72	1.34	1.38
85	5	3091	A	N1-C2	-5.72	1.29	1.34
1	2	1325	C	N1-C6	5.72	1.40	1.37
36	1	2946	A	C5-C6	-5.72	1.35	1.41
38	4	26	U	C4-C5	-5.72	1.38	1.43
80	6	634	G	C5-C4	-5.72	1.34	1.38
80	6	1053	G	N7-C5	-5.72	1.35	1.39
80	6	1371	A	N9-C4	5.72	1.41	1.37
85	5	2609	A	N3-C4	-5.72	1.31	1.34
38	8	94	C	C2-N3	-5.72	1.31	1.35
36	1	53	G	N3-C4	-5.71	1.31	1.35
36	1	80	G	N9-C4	-5.71	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	386	A	N7-C5	-5.71	1.35	1.39
36	1	578	A	C6-N1	-5.71	1.31	1.35
36	1	701	G	C5-C4	-5.71	1.34	1.38
36	1	1114	U	N1-C2	-5.71	1.33	1.38
36	1	1381	A	N3-C4	-5.71	1.31	1.34
36	1	2216	G	N7-C5	-5.71	1.35	1.39
36	1	3106	A	C6-N6	-5.71	1.29	1.33
80	6	1738	U	N1-C6	-5.71	1.32	1.38
8	s6	97	VAL	CB-CG2	-5.71	1.40	1.52
85	5	2389	C	C2-O2	-5.71	1.19	1.24
85	5	2817	A	N1-C2	-5.71	1.29	1.34
36	1	1414	G	N7-C5	-5.71	1.35	1.39
36	1	1754	G	C6-N1	5.71	1.43	1.39
36	1	1760	A	N9-C8	5.71	1.42	1.37
64	N8	46	ASP	CB-CG	5.71	1.63	1.51
80	6	190	C	N1-C6	5.71	1.40	1.37
80	6	1762	A	C5-C6	-5.71	1.35	1.41
85	5	814	U	N3-C4	-5.71	1.33	1.38
36	1	426	G	C5-C4	-5.71	1.34	1.38
80	6	143	G	N7-C5	-5.71	1.35	1.39
85	5	1019	G	N7-C5	5.71	1.42	1.39
85	5	2913	C	C4-C5	-5.71	1.38	1.43
36	1	1170	A	N9-C8	-5.71	1.33	1.37
85	5	342	A	N1-C2	-5.71	1.29	1.34
85	5	1621	A	N3-C4	5.71	1.38	1.34
36	1	143	G	C6-N1	-5.71	1.35	1.39
36	1	646	A	N7-C5	-5.71	1.35	1.39
36	1	931	C	C2-N3	-5.71	1.31	1.35
36	1	1093	A	C5-C4	5.71	1.42	1.38
36	1	2244	A	C5-C4	-5.71	1.34	1.38
1	2	1468	C	N1-C6	-5.71	1.33	1.37
36	1	2941	A	C5-C6	-5.71	1.35	1.41
36	1	2944	U	N3-C4	-5.71	1.33	1.38
36	1	3093	C	N1-C6	-5.71	1.33	1.37
38	4	96	A	C6-N1	-5.71	1.31	1.35
80	6	1143	A	C5-C6	5.71	1.46	1.41
85	5	1395	G	N3-C4	-5.71	1.31	1.35
1	2	896	G	C5-C4	5.71	1.42	1.38
1	2	1748	A	N3-C4	-5.71	1.31	1.34
36	1	494	G	C6-N1	5.71	1.43	1.39
36	1	882	A	P-OP2	-5.71	1.39	1.49
80	6	438	A	N7-C5	-5.71	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1444	G	C8-N7	-5.71	1.27	1.30
85	5	2190	U	C4'-C3'	-5.71	1.46	1.52
36	1	214	G	N3-C4	-5.70	1.31	1.35
36	1	576	C	C2-O2	-5.70	1.19	1.24
36	1	828	A	N7-C5	-5.70	1.35	1.39
36	1	3324	C	N1-C6	-5.70	1.33	1.37
80	6	314	C	N1-C6	-5.70	1.33	1.37
85	5	35	A	N3-C4	-5.70	1.31	1.34
85	5	443	G	N7-C5	5.70	1.42	1.39
85	5	575	G	N3-C4	-5.70	1.31	1.35
85	5	964	G	P-OP1	5.70	1.58	1.49
38	8	138	A	C6-N1	-5.70	1.31	1.35
36	1	1379	G	C6-N1	-5.70	1.35	1.39
36	1	1819	U	C2-N3	5.70	1.41	1.37
36	1	2608	G	N9-C4	-5.70	1.33	1.38
85	5	2996	U	N1-C6	5.70	1.43	1.38
1	2	1593	G	C5-C4	-5.70	1.34	1.38
36	1	16	A	N3-C4	-5.70	1.31	1.34
36	1	735	A	C6-N1	5.70	1.39	1.35
36	1	826	G	N7-C5	-5.70	1.35	1.39
80	6	398	G	C5-C4	-5.70	1.34	1.38
85	5	152	U	C4-O4	5.70	1.28	1.23
85	5	908	G	C5-C4	-5.70	1.34	1.38
85	5	923	C	N1-C6	-5.70	1.33	1.37
85	5	1865	A	N9-C8	-5.70	1.33	1.37
85	5	2131	A	C5-C4	-5.70	1.34	1.38
85	5	2383	C	N3-C4	-5.70	1.29	1.33
53	m7	119	VAL	CB-CG1	-5.70	1.40	1.52
36	1	420	G	N3-C4	-5.70	1.31	1.35
36	1	535	G	C2-N3	-5.70	1.28	1.32
36	1	1104	G	N9-C4	-5.70	1.33	1.38
37	3	94	C	N1-C6	-5.70	1.33	1.37
85	5	953	G	N7-C5	-5.70	1.35	1.39
57	n1	36	VAL	CB-CG1	-5.70	1.40	1.52
36	1	874	U	C2-N3	-5.70	1.33	1.37
85	5	895	A	C5-C6	-5.70	1.35	1.41
85	5	1878	G	P-OP1	5.70	1.58	1.49
85	5	2737	C	N1-C2	-5.70	1.34	1.40
67	o1	110	GLU	CG-CD	5.70	1.60	1.51
1	2	1298	U	C2-N3	-5.70	1.33	1.37
36	1	2678	A	N9-C4	-5.70	1.34	1.37
85	5	572	A	C5-C4	-5.70	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	641	C	C2-O2	5.70	1.29	1.24
85	5	2150	G	C5-C4	-5.70	1.34	1.38
85	5	2617	U	N1-C6	-5.70	1.32	1.38
36	1	1590	G	C6-N1	-5.69	1.35	1.39
36	1	1663	C	N1-C6	-5.69	1.33	1.37
36	1	2535	A	N9-C4	5.69	1.41	1.37
36	1	2986	U	N3-C4	-5.69	1.33	1.38
85	5	796	U	C2-N3	-5.69	1.33	1.37
85	5	1669	C	N1-C2	-5.69	1.34	1.40
36	1	607	A	N3-C4	-5.69	1.31	1.34
36	1	677	A	N7-C5	-5.69	1.35	1.39
36	1	1178	G	C5-C4	-5.69	1.34	1.38
36	1	1512	U	N1-C6	-5.69	1.32	1.38
36	1	2748	A	N7-C5	-5.69	1.35	1.39
36	1	2786	G	C5-C4	-5.69	1.34	1.38
52	M6	54	TYR	CE2-CZ	-5.69	1.31	1.38
80	6	1571	C	P-OP2	5.69	1.58	1.49
85	5	443	G	C6-N1	5.69	1.43	1.39
85	5	1352	A	C8-N7	5.69	1.35	1.31
85	5	1536	G	N3-C4	-5.69	1.31	1.35
85	5	1582	C	N1-C2	5.69	1.45	1.40
85	5	2647	A	N9-C4	-5.69	1.34	1.37
85	5	2965	U	C4-O4	-5.69	1.19	1.23
85	5	3112	G	C5-C6	-5.69	1.36	1.42
1	2	1188	C	N3-C4	-5.69	1.29	1.33
1	2	1431	G	C5-C4	-5.69	1.34	1.38
36	1	346	C	N3-C4	-5.69	1.29	1.33
36	1	815	G	N9-C8	-5.69	1.33	1.37
85	5	690	A	C6-N1	-5.69	1.31	1.35
85	5	1377	G	N7-C5	-5.69	1.35	1.39
85	5	2531	C	N3-C4	5.69	1.38	1.33
85	5	2705	A	C5-C6	-5.69	1.35	1.41
85	5	2974	U	N1-C2	-5.69	1.33	1.38
36	1	1723	A	C5-C6	-5.69	1.35	1.41
38	4	116	G	N9-C8	-5.69	1.33	1.37
69	O3	52	VAL	CB-CG1	-5.69	1.41	1.52
42	15	263	GLU	CB-CG	-5.69	1.41	1.52
36	1	712	G	N3-C4	-5.69	1.31	1.35
36	1	823	C	C2-O2	-5.69	1.19	1.24
36	1	2373	A	C6-N1	-5.69	1.31	1.35
85	5	1333	C	C2-O2	-5.69	1.19	1.24
85	5	2663	G	N7-C5	-5.69	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2	645	C	N1-C6	5.69	1.40	1.37
36	1	2130	G	N1-C2	-5.69	1.33	1.37
36	1	2237	C	C2-N3	-5.69	1.31	1.35
80	6	622	A	N3-C4	-5.69	1.31	1.34
85	5	3375	A	N3-C4	-5.69	1.31	1.34
36	1	1676	A	N9-C8	5.68	1.42	1.37
36	1	2886	U	N1-C6	-5.68	1.32	1.38
36	1	3337	G	C6-N1	-5.68	1.35	1.39
38	4	152	G	C6-O6	5.68	1.29	1.24
80	6	863	A	C5-C6	-5.68	1.35	1.41
80	6	1652	C	N1-C6	-5.68	1.33	1.37
85	5	328	U	C2-N3	-5.68	1.33	1.37
85	5	373	A	N3-C4	-5.68	1.31	1.34
85	5	2150	G	N7-C5	-5.68	1.35	1.39
37	7	7	G	N9-C8	-5.68	1.33	1.37
37	7	65	G	C5-C6	-5.68	1.36	1.42
36	1	787	G	C5-C6	-5.68	1.36	1.42
80	6	1652	C	C4-C5	-5.68	1.38	1.43
85	5	396	A	N7-C5	-5.68	1.35	1.39
85	5	645	A	C6-N1	-5.68	1.31	1.35
85	5	822	G	N9-C4	-5.68	1.33	1.38
85	5	2144	A	N9-C4	5.68	1.41	1.37
38	8	11	C	N1-C2	-5.68	1.34	1.40
1	2	279	G	N3-C4	5.68	1.39	1.35
36	1	1450	G	C5-C6	-5.68	1.36	1.42
36	1	2161	G	C6-O6	-5.68	1.19	1.24
85	5	2294	U	C2-N3	-5.68	1.33	1.37
56	n0	131	LYS	CD-CE	5.68	1.65	1.51
36	1	95	A	C5-C4	-5.68	1.34	1.38
36	1	661	G	C2-N2	-5.68	1.28	1.34
36	1	1575	A	N9-C4	5.68	1.41	1.37
36	1	2416	U	C2-N3	-5.68	1.33	1.37
85	5	532	A	N7-C5	-5.68	1.35	1.39
85	5	907	G	C6-O6	-5.68	1.19	1.24
85	5	917	A	P-OP2	5.68	1.58	1.49
85	5	1772	U	N3-C4	5.68	1.43	1.38
85	5	2884	C	C4-C5	-5.68	1.38	1.43
85	5	2946	A	C5-C6	-5.68	1.35	1.41
36	1	2631	U	C2-N3	-5.68	1.33	1.37
36	1	2979	U	P-OP2	-5.68	1.39	1.49
85	5	1018	G	N3-C4	5.68	1.39	1.35
38	8	65	A	N9-C4	5.68	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2	1789	A	N3-C4	5.68	1.38	1.34
36	1	45	A	C6-N1	-5.68	1.31	1.35
36	1	197	G	C6-O6	-5.68	1.19	1.24
36	1	2121	G	C5-C6	5.68	1.48	1.42
36	1	2199	G	N9-C4	-5.68	1.33	1.38
36	1	2717	U	N1-C6	-5.68	1.32	1.38
85	5	1150	A	C5-C4	-5.68	1.34	1.38
85	5	2100	A	N3-C4	5.68	1.38	1.34
85	5	2362	C	C2-N3	-5.68	1.31	1.35
85	5	2680	A	N3-C4	-5.68	1.31	1.34
85	5	2700	G	N9-C4	-5.68	1.33	1.38
54	m8	175	ALA	C-O	5.68	1.34	1.23
1	2	1043	U	N1-C2	5.67	1.43	1.38
36	1	728	G	C5-C4	-5.67	1.34	1.38
36	1	1734	G	C5-C4	-5.67	1.34	1.38
36	1	2155	G	N9-C8	-5.67	1.33	1.37
36	1	2623	G	C6-N1	-5.67	1.35	1.39
36	1	2719	U	N3-C4	-5.67	1.33	1.38
85	5	1537	A	N7-C5	-5.67	1.35	1.39
85	5	3089	C	N1-C6	-5.67	1.33	1.37
36	1	2561	A	N9-C4	-5.67	1.34	1.37
38	4	144	G	C5-C6	5.67	1.48	1.42
85	5	1098	A	N7-C5	-5.67	1.35	1.39
85	5	1480	G	C6-N1	5.67	1.43	1.39
85	5	2321	A	N7-C5	-5.67	1.35	1.39
85	5	3275	U	P-O5'	5.67	1.65	1.59
36	1	717	C	N3-C4	-5.67	1.29	1.33
36	1	1865	A	C5-C6	-5.67	1.35	1.41
80	6	1305	U	C2-O2	5.67	1.27	1.22
85	5	130	A	N7-C5	5.67	1.42	1.39
85	5	3331	U	C4-O4	-5.67	1.19	1.23
36	1	70	A	N9-C8	-5.67	1.33	1.37
36	1	1180	A	P-O5'	-5.67	1.54	1.59
36	1	2641	U	N1-C2	-5.67	1.33	1.38
85	5	1652	G	N3-C4	-5.67	1.31	1.35
1	2	16	G	N1-C2	-5.67	1.33	1.37
1	2	545	A	N9-C4	-5.67	1.34	1.37
36	1	661	G	N9-C4	-5.67	1.33	1.38
36	1	2269	U	C4-O4	5.67	1.28	1.23
85	5	1316	C	C2'-C1'	5.67	1.59	1.53
85	5	1763	U	C2-N3	5.67	1.41	1.37
85	5	2305	G	N1-C2	-5.67	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2313	A	N9-C8	-5.67	1.33	1.37
85	5	2345	A	N3-C4	-5.67	1.31	1.34
85	5	2549	G	C6-N1	5.67	1.43	1.39
85	5	3103	A	C5-C4	-5.67	1.34	1.38
85	5	3136	G	N3-C4	-5.67	1.31	1.35
38	8	73	U	N1-C2	5.67	1.43	1.38
38	8	85	G	N9-C8	5.67	1.41	1.37
36	1	1800	A	C5-C4	-5.67	1.34	1.38
36	1	2244	A	C6-N1	-5.67	1.31	1.35
36	1	2522	G	N3-C4	5.67	1.39	1.35
36	1	2761	G	N3-C4	-5.67	1.31	1.35
36	1	2943	G	N9-C8	-5.67	1.33	1.37
85	5	2605	G	C5-C6	-5.67	1.36	1.42
36	1	2139	A	N9-C8	-5.67	1.33	1.37
36	1	2791	G	N3-C4	-5.67	1.31	1.35
36	1	3193	C	C2-O2	-5.67	1.19	1.24
24	d2	89	TRP	CB-CG	-5.67	1.40	1.50
85	5	2686	A	N3-C4	-5.67	1.31	1.34
36	1	778	U	C3'-C2'	-5.66	1.46	1.52
36	1	2134	G	C8-N7	-5.66	1.27	1.30
36	1	2872	A	C5-C6	-5.66	1.35	1.41
85	5	291	C	N3-C4	-5.66	1.29	1.33
85	5	634	C	C2-O2	-5.66	1.19	1.24
85	5	1126	G	C2-N3	-5.66	1.28	1.32
85	5	1160	C	C4-C5	5.66	1.47	1.43
85	5	1411	C	C4-C5	-5.66	1.38	1.43
85	5	3297	U	N1-C2	-5.66	1.33	1.38
85	5	3365	U	N1-C2	-5.66	1.33	1.38
1	2	997	G	N7-C5	-5.66	1.35	1.39
36	1	305	U	C2-O2	-5.66	1.17	1.22
36	1	371	G	N3-C4	-5.66	1.31	1.35
62	N6	38	GLU	CG-CD	5.66	1.60	1.51
85	5	45	A	N9-C4	-5.66	1.34	1.37
85	5	114	A	C5-C6	-5.66	1.35	1.41
85	5	995	U	N1-C2	-5.66	1.33	1.38
85	5	1302	A	N9-C8	-5.66	1.33	1.37
85	5	2994	A	C5-C4	-5.66	1.34	1.38
85	5	3086	A	N7-C5	-5.66	1.35	1.39
36	1	210	U	C2-N3	-5.66	1.33	1.37
36	1	368	G	N9-C8	-5.66	1.33	1.37
36	1	917	A	N1-C2	-5.66	1.29	1.34
36	1	3376	A	N3-C4	-5.66	1.31	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	269	G	C5-C4	-5.66	1.34	1.38
80	6	1636	C	N3-C4	-5.66	1.29	1.33
80	6	1734	U	C4-C5	-5.66	1.38	1.43
85	5	2124	G	N1-C2	5.66	1.42	1.37
37	7	49	G	C6-O6	5.66	1.29	1.24
85	5	506	U	N3-C4	-5.66	1.33	1.38
85	5	2312	A	N7-C5	-5.66	1.35	1.39
85	5	2643	A	P-OP2	-5.66	1.39	1.49
36	1	569	A	N3-C4	-5.66	1.31	1.34
36	1	906	A	N9-C8	-5.66	1.33	1.37
36	1	1420	C	N1-C2	-5.66	1.34	1.40
38	4	124	G	N3-C4	-5.66	1.31	1.35
52	M6	80	PHE	CB-CG	-5.66	1.41	1.51
80	6	336	G	P-OP1	5.66	1.58	1.49
80	6	891	A	N3-C4	-5.66	1.31	1.34
80	6	1714	A	N9-C4	5.66	1.41	1.37
85	5	38	U	P-OP2	-5.66	1.39	1.49
85	5	282	G	N7-C5	-5.66	1.35	1.39
85	5	639	G	N7-C5	-5.66	1.35	1.39
85	5	713	U	N1-C2	-5.66	1.33	1.38
85	5	880	G	N3-C4	-5.66	1.31	1.35
85	5	1108	U	N1-C6	-5.66	1.32	1.38
85	5	1189	C	C2-O2	-5.66	1.19	1.24
85	5	2424	A	C5-C4	-5.66	1.34	1.38
85	5	2788	C	N1-C2	-5.66	1.34	1.40
85	5	3369	G	C5-C4	-5.66	1.34	1.38
38	8	1	A	C5-C4	-5.66	1.34	1.38
1	2	47	A	C6-N1	-5.65	1.31	1.35
85	5	810	A	N7-C5	-5.65	1.35	1.39
85	5	2148	U	N1-C6	-5.65	1.32	1.38
85	5	2731	U	C2-O2	-5.65	1.17	1.22
85	5	3310	A	N1-C2	-5.65	1.29	1.34
1	2	1229	C	N3-C4	-5.65	1.29	1.33
47	M0	17	TYR	CD2-CE2	-5.65	1.30	1.39
80	6	336	G	N9-C8	-5.65	1.33	1.37
80	6	1108	G	C5-C6	-5.65	1.36	1.42
80	6	1702	A	C5-C4	5.65	1.42	1.38
85	5	500	C	N1-C2	-5.65	1.34	1.40
85	5	2507	C	C2-O2	5.65	1.29	1.24
85	5	2547	A	N3-C4	5.65	1.38	1.34
51	m5	75	VAL	CB-CG1	-5.65	1.41	1.52
1	2	1736	A	N7-C5	-5.65	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	284	A	N3-C4	-5.65	1.31	1.34
36	1	791	A	N3-C4	-5.65	1.31	1.34
36	1	933	A	C6-N1	-5.65	1.31	1.35
36	1	2832	C	N1-C2	-5.65	1.34	1.40
80	6	1798	U	N1-C2	5.65	1.43	1.38
85	5	1426	C	N1-C6	-5.65	1.33	1.37
85	5	2620	G	C2-N3	-5.65	1.28	1.32
85	5	2996	U	N1-C2	5.65	1.43	1.38
85	5	3106	A	C5-C6	-5.65	1.35	1.41
36	1	1537	A	N7-C5	-5.65	1.35	1.39
85	5	2347	U	N1-C6	-5.65	1.32	1.38
36	1	67	A	N9-C4	-5.65	1.34	1.37
36	1	911	C	C2-N3	-5.65	1.31	1.35
36	1	1138	U	C2-O2	-5.65	1.17	1.22
36	1	1395	G	N9-C4	-5.65	1.33	1.38
38	4	58	G	C6-N1	-5.65	1.35	1.39
38	4	135	G	N9-C4	-5.65	1.33	1.38
85	5	2912	G	N7-C5	-5.65	1.35	1.39
38	8	78	G	N7-C5	-5.65	1.35	1.39
54	m8	153	PHE	CD1-CE1	-5.65	1.27	1.39
85	5	1869	C	N1-C6	-5.65	1.33	1.37
85	5	2706	G	N3-C4	-5.65	1.31	1.35
85	5	3303	G	C6-O6	-5.65	1.19	1.24
36	1	2306	C	N1-C6	5.64	1.40	1.37
36	1	2376	G	N9-C8	5.64	1.41	1.37
38	4	1	A	N7-C5	-5.64	1.35	1.39
85	5	369	A	N3-C4	-5.64	1.31	1.34
85	5	701	G	N7-C5	5.64	1.42	1.39
85	5	2850	G	N7-C5	-5.64	1.35	1.39
85	5	2858	U	N1-C2	-5.64	1.33	1.38
36	1	1406	A	N1-C2	-5.64	1.29	1.34
36	1	1617	G	C6-N1	5.64	1.43	1.39
80	6	1107	G	C6-N1	-5.64	1.35	1.39
85	5	350	C	N1-C2	-5.64	1.34	1.40
85	5	643	U	C4-C5	-5.64	1.38	1.43
85	5	1172	G	C5-C4	-5.64	1.34	1.38
85	5	2247	G	C6-N1	-5.64	1.35	1.39
85	5	2831	G	N3-C4	-5.64	1.31	1.35
85	5	2932	U	C2-N3	-5.64	1.33	1.37
85	5	2993	G	C5-C4	-5.64	1.34	1.38
37	7	10	C	C2-O2	-5.64	1.19	1.24
37	7	75	G	N1-C2	5.64	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	833	G	N9-C4	-5.64	1.33	1.38
36	1	2908	G	C6-O6	-5.64	1.19	1.24
85	5	1094	U	N3-C4	5.64	1.43	1.38
85	5	2782	U	C2-N3	-5.64	1.33	1.37
85	5	3113	A	N3-C4	-5.64	1.31	1.34
36	1	693	A	N3-C4	-5.64	1.31	1.34
36	1	1119	C	C5-C6	-5.64	1.29	1.34
36	1	1426	C	C2-O2	-5.64	1.19	1.24
36	1	1431	G	N9-C8	-5.64	1.33	1.37
36	1	3273	A	N9-C8	-5.64	1.33	1.37
80	6	309	C	N1-C6	-5.64	1.33	1.37
80	6	522	U	C2-N3	-5.64	1.33	1.37
85	5	753	C	C5-C6	-5.64	1.29	1.34
85	5	2598	G	N9-C8	-5.64	1.33	1.37
85	5	3030	G	N3-C4	-5.64	1.31	1.35
37	7	115	G	C5-C6	-5.64	1.36	1.42
36	1	578	A	N9-C4	-5.64	1.34	1.37
36	1	1171	G	C5-C4	-5.64	1.34	1.38
36	1	1454	A	C6-N1	-5.64	1.31	1.35
85	5	2305	G	C6-O6	-5.64	1.19	1.24
85	5	2926	A	C6-N1	-5.64	1.31	1.35
36	1	712	G	N9-C8	-5.64	1.33	1.37
36	1	753	C	N1-C2	-5.64	1.34	1.40
36	1	813	G	C6-O6	5.64	1.29	1.24
36	1	2855	U	N1-C2	-5.64	1.33	1.38
85	5	949	C	N1-C6	-5.64	1.33	1.37
85	5	2921	U	N1-C6	-5.64	1.32	1.38
1	2	847	U	N1-C2	-5.63	1.33	1.38
36	1	370	U	N3-C4	-5.63	1.33	1.38
36	1	658	G	C6-N1	-5.63	1.35	1.39
36	1	1444	G	N7-C5	-5.63	1.35	1.39
85	5	1709	C	N1-C6	-5.63	1.33	1.37
85	5	2096	A	N9-C8	5.63	1.42	1.37
36	1	213	A	C6-N1	-5.63	1.31	1.35
36	1	3358	U	N1-C2	5.63	1.43	1.38
80	6	179	A	N9-C4	5.63	1.41	1.37
85	5	2717	U	N1-C6	-5.63	1.32	1.38
1	2	1485	G	C6-N1	-5.63	1.35	1.39
36	1	337	G	N7-C5	-5.63	1.35	1.39
36	1	361	A	N9-C8	-5.63	1.33	1.37
36	1	1029	G	C6-N1	5.63	1.43	1.39
36	1	2299	A	C5-C4	-5.63	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2346	C	N1-C6	-5.63	1.33	1.37
80	6	51	A	N3-C4	-5.63	1.31	1.34
80	6	1399	C	N3-C4	5.63	1.37	1.33
85	5	906	A	N3-C4	-5.63	1.31	1.34
85	5	1190	A	C5-C4	-5.63	1.34	1.38
85	5	1594	A	N7-C5	-5.63	1.35	1.39
85	5	1891	A	N9-C8	-5.63	1.33	1.37
85	5	2620	G	N9-C4	-5.63	1.33	1.38
85	5	3103	A	C6-N1	-5.63	1.31	1.35
1	2	921	G	C5-C4	-5.63	1.34	1.38
36	1	1886	A	N7-C5	-5.63	1.35	1.39
36	1	2147	A	C6-N1	-5.63	1.31	1.35
36	1	2556	C	N1-C2	5.63	1.45	1.40
80	6	1734	U	N1-C6	-5.63	1.32	1.38
85	5	397	A	C6-N1	-5.63	1.31	1.35
1	2	1064	A	N7-C5	5.63	1.42	1.39
36	1	60	A	N7-C5	-5.63	1.35	1.39
36	1	194	U	C2-N3	5.63	1.41	1.37
36	1	3004	C	C4'-C3'	-5.63	1.47	1.52
36	1	3040	A	N3-C4	-5.63	1.31	1.34
36	1	3210	A	C6-N6	-5.63	1.29	1.33
36	1	3267	A	N7-C5	-5.63	1.35	1.39
38	4	67	U	N1-C6	-5.63	1.32	1.38
85	5	91	G	N1-C2	-5.63	1.33	1.37
85	5	684	G	N9-C4	-5.63	1.33	1.38
85	5	2382	G	N9-C4	-5.63	1.33	1.38
85	5	2523	A	N3-C4	5.63	1.38	1.34
85	5	2803	A	N9-C4	-5.63	1.34	1.37
37	7	29	C	N3-C4	-5.63	1.30	1.33
36	1	2619	G	C5-C6	-5.63	1.36	1.42
36	1	2939	G	N1-C2	-5.63	1.33	1.37
80	6	467	G	N9-C8	-5.63	1.33	1.37
80	6	565	C	C4-C5	5.63	1.47	1.43
85	5	947	G	C6-N1	-5.63	1.35	1.39
85	5	1005	G	N9-C4	-5.63	1.33	1.38
85	5	1389	G	N9-C8	-5.63	1.33	1.37
85	5	1896	A	N7-C5	-5.63	1.35	1.39
85	5	2124	G	C5-C6	5.63	1.48	1.42
85	5	2790	A	N3-C4	-5.63	1.31	1.34
85	5	2879	C	N3-C4	-5.63	1.30	1.33
37	7	9	C	N3-C4	-5.63	1.30	1.33
38	8	155	A	C5-C6	5.63	1.46	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	1103	U	N3-C4	-5.62	1.33	1.38
1	2	1005	C	N3-C4	-5.62	1.30	1.33
36	1	367	A	N9-C4	-5.62	1.34	1.37
36	1	1851	G	N3-C4	-5.62	1.31	1.35
36	1	3067	C	N1-C6	-5.62	1.33	1.37
80	6	269	G	C6-N1	-5.62	1.35	1.39
85	5	657	A	C8-N7	-5.62	1.27	1.31
85	5	1065	A	C5-C4	-5.62	1.34	1.38
85	5	1415	U	N1-C6	-5.62	1.32	1.38
39	12	165	VAL	CB-CG1	-5.62	1.41	1.52
1	2	515	A	C5-C4	-5.62	1.34	1.38
36	1	222	A	C6-N1	-5.62	1.31	1.35
36	1	939	U	C2-O2	-5.62	1.17	1.22
36	1	2290	C	N1-C6	-5.62	1.33	1.37
36	1	2375	G	C6-N1	-5.62	1.35	1.39
36	1	2445	A	C5-C6	5.62	1.46	1.41
38	4	98	U	C2-O2	-5.62	1.17	1.22
80	6	674	C	N1-C6	5.62	1.40	1.37
80	6	1663	G	C5-C6	-5.62	1.36	1.42
80	6	1747	G	C6-N1	-5.62	1.35	1.39
80	6	1771	U	N1-C2	-5.62	1.33	1.38
85	5	518	G	N1-C2	5.62	1.42	1.37
85	5	2208	A	N1-C2	5.62	1.39	1.34
85	5	2342	U	N1-C2	-5.62	1.33	1.38
36	1	2680	A	N3-C4	-5.62	1.31	1.34
38	4	31	G	N7-C5	-5.62	1.35	1.39
85	5	943	U	C2-O2	-5.62	1.17	1.22
85	5	1055	A	N9-C8	-5.62	1.33	1.37
85	5	1113	G	N9-C8	-5.62	1.33	1.37
85	5	1546	A	C5-C6	-5.62	1.35	1.41
85	5	2947	G	N7-C5	-5.62	1.35	1.39
1	2	1227	A	N9-C4	5.62	1.41	1.37
36	1	3200	G	N9-C8	-5.62	1.33	1.37
85	5	1613	A	N7-C5	-5.62	1.35	1.39
85	5	2351	U	C2-N3	-5.62	1.33	1.37
85	5	2560	C	N3-C4	5.62	1.37	1.33
85	5	2918	G	N9-C8	-5.62	1.33	1.37
85	5	3105	U	N1-C6	-5.62	1.32	1.38
64	n8	5	PHE	CD1-CE1	-5.62	1.28	1.39
80	6	684	A	N9-C4	5.62	1.41	1.37
85	5	2289	U	C2-N3	-5.62	1.33	1.37
85	5	2812	C	C2-N3	5.62	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2950	G	C6-N1	-5.62	1.35	1.39
1	2	99	C	N1-C6	-5.62	1.33	1.37
36	1	602	A	C6-N6	5.62	1.38	1.33
36	1	2097	U	C2-O2	5.62	1.27	1.22
36	1	2990	G	N3-C4	-5.62	1.31	1.35
80	6	87	C	N1-C6	-5.62	1.33	1.37
80	6	1702	A	C6-N1	5.62	1.39	1.35
85	5	508	U	C5-C6	5.62	1.39	1.34
85	5	976	U	C2-O2	-5.62	1.17	1.22
85	5	2107	A	C5-C4	-5.62	1.34	1.38
85	5	2756	C	C2-N3	-5.62	1.31	1.35
41	14	126	ILE	CB-CG2	-5.62	1.35	1.52
1	2	1764	A	N3-C4	-5.61	1.31	1.34
36	1	2106	A	N7-C5	5.61	1.42	1.39
80	6	353	A	C5-C4	-5.61	1.34	1.38
85	5	660	A	N9-C8	-5.61	1.33	1.37
85	5	1130	A	N9-C8	-5.61	1.33	1.37
85	5	1453	A	N9-C4	-5.61	1.34	1.37
85	5	2667	A	C5-C4	-5.61	1.34	1.38
85	5	2674	A	N9-C4	-5.61	1.34	1.37
36	1	61	A	C5-C4	-5.61	1.34	1.38
36	1	600	G	C5-C6	-5.61	1.36	1.42
36	1	889	U	C2-N3	-5.61	1.33	1.37
36	1	1093	A	C5-C6	5.61	1.46	1.41
36	1	2726	C	C2-O2	-5.61	1.19	1.24
36	1	3111	U	N1-C2	-5.61	1.33	1.38
36	1	1137	C	N1-C2	-5.61	1.34	1.40
36	1	2180	G	N9-C4	-5.61	1.33	1.38
36	1	2379	U	N1-C2	-5.61	1.33	1.38
85	5	412	G	N7-C5	-5.61	1.35	1.39
85	5	1431	G	N7-C5	-5.61	1.35	1.39
85	5	2529	A	N9-C4	-5.61	1.34	1.37
85	5	2629	U	N1-C2	-5.61	1.33	1.38
85	5	950	G	C8-N7	-5.61	1.27	1.30
85	5	1337	A	N3-C4	-5.61	1.31	1.34
85	5	1398	U	N1-C2	-5.61	1.33	1.38
85	5	2522	G	N7-C5	5.61	1.42	1.39
85	5	2858	U	C4-C5	-5.61	1.38	1.43
1	2	72	A	N9-C8	5.61	1.42	1.37
36	1	522	A	N9-C8	-5.61	1.33	1.37
36	1	895	A	C5-C6	-5.61	1.36	1.41
36	1	1180	A	N3-C4	-5.61	1.31	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2213	A	N3-C4	-5.61	1.31	1.34
85	5	500	C	N1-C6	-5.61	1.33	1.37
85	5	2355	G	C2-N2	-5.61	1.28	1.34
37	7	91	G	C6-N1	-5.61	1.35	1.39
1	2	454	U	C2-N3	5.61	1.41	1.37
36	1	121	A	C5'-C4'	-5.61	1.44	1.51
36	1	222	A	P-OP2	-5.61	1.39	1.49
36	1	354	U	N1-C6	-5.61	1.32	1.38
36	1	602	A	C6-N1	5.61	1.39	1.35
36	1	1107	C	N1-C6	-5.61	1.33	1.37
36	1	2240	G	C5-C6	-5.61	1.36	1.42
36	1	3308	C	N1-C6	-5.61	1.33	1.37
38	4	9	A	C5-C4	-5.61	1.34	1.38
80	6	293	U	N1-C2	-5.61	1.33	1.38
80	6	927	C	N1-C6	-5.61	1.33	1.37
80	6	1090	C	C3'-O3'	5.61	1.50	1.42
85	5	635	G	C5-C4	-5.61	1.34	1.38
85	5	1281	G	C5-C4	5.61	1.42	1.38
85	5	2591	A	C6-N1	5.61	1.39	1.35
40	13	229	VAL	CB-CG2	-5.61	1.41	1.52
36	1	1408	G	N9-C4	-5.60	1.33	1.38
36	1	2381	G	C2-N3	-5.60	1.28	1.32
36	1	2602	G	N9-C8	-5.60	1.33	1.37
37	3	26	C	N3-C4	-5.60	1.30	1.33
38	4	38	U	N1-C6	-5.60	1.32	1.38
36	1	376	G	N9-C4	-5.60	1.33	1.38
36	1	812	G	C6-N1	-5.60	1.35	1.39
36	1	1059	G	N9-C8	-5.60	1.33	1.37
36	1	1791	C	N1-C2	-5.60	1.34	1.40
36	1	2119	A	N7-C5	-5.60	1.35	1.39
80	6	985	G	N9-C4	-5.60	1.33	1.38
85	5	184	U	N1-C2	5.60	1.43	1.38
85	5	282	G	C6-O6	-5.60	1.19	1.24
85	5	327	A	C6-N6	-5.60	1.29	1.33
85	5	1441	G	N7-C5	-5.60	1.35	1.39
85	5	2646	C	C5-C6	-5.60	1.29	1.34
85	5	3119	U	N1-C6	-5.60	1.32	1.38
85	5	3313	U	C2-N3	-5.60	1.33	1.37
1	2	1019	A	N9-C4	-5.60	1.34	1.37
36	1	12	A	C6-N1	-5.60	1.31	1.35
36	1	908	G	C5-C4	-5.60	1.34	1.38
36	1	2975	U	N1-C2	-5.60	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	8	89	A	C5-C6	5.60	1.46	1.41
1	2	23	G	C6-N1	-5.60	1.35	1.39
54	M8	106	PHE	CD1-CE1	-5.60	1.28	1.39
80	6	630	A	N9-C4	-5.60	1.34	1.37
85	5	1043	C	P-OP2	5.60	1.58	1.49
85	5	1066	G	N1-C2	-5.60	1.33	1.37
85	5	1118	C	C4-N4	-5.60	1.28	1.33
85	5	1363	A	C6-N1	-5.60	1.31	1.35
85	5	2804	A	N7-C5	-5.60	1.35	1.39
36	1	182	U	N3-C4	-5.60	1.33	1.38
36	1	1384	U	N1-C6	-5.60	1.32	1.38
36	1	1927	G	C2-N3	-5.60	1.28	1.32
36	1	2911	A	C5-C6	-5.60	1.36	1.41
36	1	3008	A	C6-N1	-5.60	1.31	1.35
80	6	269	G	N9-C8	-5.60	1.33	1.37
80	6	634	G	C6-N1	-5.60	1.35	1.39
85	5	938	C	C4-C5	-5.60	1.38	1.43
85	5	1019	G	C5-C6	5.60	1.48	1.42
85	5	2778	G	C5-C4	-5.60	1.34	1.38
85	5	2862	U	N1-C2	-5.60	1.33	1.38
38	8	63	G	N7-C5	-5.60	1.35	1.39
36	1	74	G	N3-C4	-5.60	1.31	1.35
36	1	1750	A	N9-C4	-5.60	1.34	1.37
36	1	2569	A	C5-C6	5.60	1.46	1.41
36	1	2682	C	C2-N3	-5.60	1.31	1.35
36	1	3129	A	C6-N1	-5.60	1.31	1.35
36	1	579	G	C6-N1	-5.59	1.35	1.39
36	1	746	A	N7-C5	-5.59	1.35	1.39
36	1	947	G	N7-C5	-5.59	1.35	1.39
36	1	1162	U	C2-O2	-5.59	1.17	1.22
85	5	143	G	N9-C8	-5.59	1.33	1.37
85	5	530	G	C6-N1	-5.59	1.35	1.39
85	5	791	A	N9-C4	-5.59	1.34	1.37
85	5	1304	A	C5-C4	-5.59	1.34	1.38
85	5	1514	G	N3-C4	-5.59	1.31	1.35
85	5	2285	C	N1-C6	-5.59	1.33	1.37
36	1	213	A	N9-C4	-5.59	1.34	1.37
36	1	245	U	C4-O4	5.59	1.28	1.23
36	1	1785	U	N1-C2	-5.59	1.33	1.38
36	1	2800	G	C6-N1	-5.59	1.35	1.39
80	6	46	A	C5-C4	-5.59	1.34	1.38
85	5	330	G	N9-C4	-5.59	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	863	C	N3-C4	-5.59	1.30	1.33
85	5	2198	A	N3-C4	-5.59	1.31	1.34
85	5	2304	C	N3-C4	-5.59	1.30	1.33
36	1	1086	C	N3-C4	-5.59	1.30	1.33
36	1	2517	U	C2-N3	-5.59	1.33	1.37
36	1	2974	U	C4-C5	-5.59	1.38	1.43
38	4	41	A	C6-N1	-5.59	1.31	1.35
80	6	322	G	C6-N1	5.59	1.43	1.39
80	6	1119	G	N3-C4	-5.59	1.31	1.35
85	5	406	G	N9-C4	-5.59	1.33	1.38
1	2	284	G	N9-C4	-5.59	1.33	1.38
1	2	440	U	N3-C4	-5.59	1.33	1.38
36	1	397	A	C5-C4	-5.59	1.34	1.38
36	1	528	U	C2-N3	5.59	1.41	1.37
36	1	969	C	N3-C4	-5.59	1.30	1.33
36	1	1835	A	C6-N1	-5.59	1.31	1.35
36	1	2128	C	C2-O2	-5.59	1.19	1.24
37	3	34	C	N1-C2	-5.59	1.34	1.40
80	6	321	C	N1-C2	5.59	1.45	1.40
85	5	881	C	C2-O2	-5.59	1.19	1.24
85	5	1094	U	C2-O2	5.59	1.27	1.22
85	5	1322	U	N1-C6	-5.59	1.32	1.38
85	5	1466	G	N9-C8	-5.59	1.33	1.37
85	5	2126	A	N3-C4	-5.59	1.31	1.34
85	5	2309	A	N7-C5	-5.59	1.35	1.39
85	5	3187	A	N9-C8	-5.59	1.33	1.37
38	4	142	C	C4-C5	-5.59	1.38	1.43
80	6	78	A	N3-C4	-5.59	1.31	1.34
85	5	932	U	N1-C6	-5.59	1.32	1.38
85	5	1148	G	C8-N7	-5.59	1.27	1.30
36	1	1577	G	C5-C4	5.59	1.42	1.38
36	1	2716	U	N1-C2	-5.59	1.33	1.38
36	1	2878	G	N9-C8	-5.59	1.33	1.37
36	1	3130	A	C6-N1	-5.59	1.31	1.35
85	5	513	G	N3-C4	-5.59	1.31	1.35
85	5	870	G	N9-C4	-5.59	1.33	1.38
85	5	1573	G	N7-C5	5.59	1.42	1.39
85	5	2443	A	N7-C5	5.59	1.42	1.39
85	5	2652	U	C4-C5	-5.59	1.38	1.43
36	1	387	A	N3-C4	-5.58	1.31	1.34
85	5	1851	G	C5-C6	-5.58	1.36	1.42
85	5	2738	A	C5-C4	-5.58	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2898	G	N7-C5	-5.58	1.35	1.39
36	1	642	U	C5-C6	-5.58	1.29	1.34
36	1	1119	C	C4-C5	-5.58	1.38	1.43
36	1	1173	U	C2-N3	-5.58	1.33	1.37
37	3	72	A	C5-C6	-5.58	1.36	1.41
80	6	860	U	C2-N3	-5.58	1.33	1.37
85	5	100	A	N3-C4	-5.58	1.31	1.34
85	5	1524	A	C5-C4	-5.58	1.34	1.38
85	5	2909	U	C4-C5	-5.58	1.38	1.43
85	5	2910	A	C6-N1	-5.58	1.31	1.35
1	2	307	G	C6-N1	-5.58	1.35	1.39
36	1	353	G	C6-N1	-5.58	1.35	1.39
36	1	980	A	O3'-P	5.58	1.67	1.61
36	1	1406	A	C4'-C3'	-5.58	1.47	1.52
36	1	2323	G	C6-O6	-5.58	1.19	1.24
36	1	2736	A	C6-N1	-5.58	1.31	1.35
36	1	2837	A	N7-C5	-5.58	1.35	1.39
80	6	93	A	C6-N1	-5.58	1.31	1.35
80	6	1331	A	N3-C4	-5.58	1.31	1.34
85	5	803	C	N1-C2	-5.58	1.34	1.40
85	5	1195	A	N9-C4	-5.58	1.34	1.37
85	5	1406	A	N3-C4	-5.58	1.31	1.34
85	5	2654	C	C4-N4	-5.58	1.28	1.33
64	n8	44	ASN	CB-CG	5.58	1.63	1.51
36	1	2439	A	C5-C4	5.58	1.42	1.38
36	1	2522	G	N9-C8	5.58	1.41	1.37
85	5	1568	U	C2-N3	5.58	1.41	1.37
1	2	776	A	C5-C6	5.58	1.46	1.41
36	1	338	A	N9-C8	-5.58	1.33	1.37
36	1	641	C	N1-C2	-5.58	1.34	1.40
36	1	943	U	C2-N3	-5.58	1.33	1.37
36	1	2803	A	C6-N1	-5.58	1.31	1.35
36	1	2961	G	N3-C4	-5.58	1.31	1.35
36	1	3187	A	N3-C4	5.58	1.38	1.34
37	3	5	G	N7-C5	5.58	1.42	1.39
80	6	466	U	N3-C4	-5.58	1.33	1.38
80	6	1116	A	N7-C5	-5.58	1.35	1.39
80	6	1125	A	N3-C4	-5.58	1.31	1.34
85	5	70	A	N7-C5	-5.58	1.35	1.39
85	5	2400	G	N3-C4	-5.58	1.31	1.35
85	5	3034	C	N3-C4	-5.58	1.30	1.33
36	1	350	C	C5-C6	-5.58	1.29	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	249	U	C2-N3	-5.58	1.33	1.37
85	5	1789	G	N7-C5	-5.58	1.35	1.39
36	1	748	U	C4-C5	-5.58	1.38	1.43
36	1	1148	G	N9-C4	-5.58	1.33	1.38
36	1	2119	A	N9-C4	-5.58	1.34	1.37
36	1	2699	G	C3'-O3'	-5.58	1.34	1.42
36	1	3081	C	N1-C6	-5.58	1.33	1.37
80	6	319	U	N3-C4	5.58	1.43	1.38
85	5	492	U	C2-N3	5.58	1.41	1.37
85	5	833	G	N9-C8	-5.58	1.33	1.37
85	5	2106	A	N7-C5	-5.58	1.35	1.39
36	1	1357	G	N7-C5	-5.57	1.35	1.39
36	1	3186	A	C5-C4	-5.57	1.34	1.38
80	6	574	G	C5-C4	-5.57	1.34	1.38
85	5	1377	G	N3-C4	-5.57	1.31	1.35
85	5	2117	A	C6-N1	-5.57	1.31	1.35
85	5	2193	U	C2-O2	-5.57	1.17	1.22
36	1	2146	C	N1-C6	-5.57	1.33	1.37
36	1	2313	A	C6-N1	-5.57	1.31	1.35
1	2	104	A	N3-C4	-5.57	1.31	1.34
36	1	684	G	C5-C4	-5.57	1.34	1.38
36	1	1683	A	C5-C6	-5.57	1.36	1.41
80	6	1768	G	N9-C8	-5.57	1.33	1.37
85	5	1781	C	C4-C5	-5.57	1.38	1.43
85	5	2125	A	C5-C6	-5.57	1.36	1.41
85	5	2747	A	C5-C4	-5.57	1.34	1.38
85	5	3028	G	C6-N1	-5.57	1.35	1.39
44	17	53	LYS	CD-CE	5.57	1.65	1.51
36	1	1900	A	N9-C8	-5.57	1.33	1.37
36	1	2787	G	N3-C4	-5.57	1.31	1.35
85	5	2387	A	P-OP1	-5.57	1.39	1.49
1	2	49	C	N1-C6	-5.57	1.33	1.37
1	2	277	U	C2-N3	5.57	1.41	1.37
36	1	425	G	C2-N2	-5.57	1.28	1.34
36	1	1354	G	C6-N1	5.57	1.43	1.39
36	1	1372	C	C2-O2	-5.57	1.19	1.24
36	1	1387	G	N3-C4	-5.57	1.31	1.35
36	1	2867	C	N3-C4	-5.57	1.30	1.33
85	5	2292	U	N1-C6	-5.57	1.32	1.38
85	5	2695	A	C5-C4	-5.57	1.34	1.38
85	5	2959	C	C2-O2	-5.57	1.19	1.24
85	5	3186	A	N9-C4	-5.57	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2	1572	C	N3-C4	-5.57	1.30	1.33
36	1	411	U	N3-C4	-5.57	1.33	1.38
36	1	1312	C	N1-C2	-5.57	1.34	1.40
36	1	1445	U	N1-C2	-5.57	1.33	1.38
36	1	1911	A	N3-C4	-5.57	1.31	1.34
36	1	2291	A	C6-N1	-5.57	1.31	1.35
80	6	792	U	N1-C2	5.57	1.43	1.38
85	5	1313	G	N3-C4	-5.57	1.31	1.35
85	5	1835	A	N3-C4	-5.57	1.31	1.34
85	5	1862	U	C2-N3	5.57	1.41	1.37
1	2	408	C	N3-C4	-5.56	1.30	1.33
36	1	1886	A	N9-C8	-5.56	1.33	1.37
80	6	1208	A	N9-C4	-5.56	1.34	1.37
80	6	1592	A	N7-C5	-5.56	1.35	1.39
85	5	1619	A	N3-C4	-5.56	1.31	1.34
38	8	48	A	N9-C4	-5.56	1.34	1.37
36	1	936	A	C5-C6	-5.56	1.36	1.41
36	1	1477	A	N7-C5	-5.56	1.35	1.39
36	1	2717	U	N1-C2	-5.56	1.33	1.38
85	5	2325	G	N3-C4	-5.56	1.31	1.35
36	1	81	C	N1-C6	-5.56	1.33	1.37
36	1	130	A	N3-C4	5.56	1.38	1.34
36	1	576	C	C2-N3	-5.56	1.31	1.35
85	5	1310	G	N9-C8	-5.56	1.33	1.37
76	q0	89	TYR	CD2-CE2	5.56	1.47	1.39
36	1	679	U	N1-C6	-5.56	1.32	1.38
36	1	696	C	C2-N3	-5.56	1.31	1.35
36	1	803	C	C4-C5	-5.56	1.38	1.43
36	1	2098	C	N1-C6	5.56	1.40	1.37
80	6	418	G	N1-C2	-5.56	1.33	1.37
85	5	684	G	N1-C2	5.56	1.42	1.37
85	5	936	A	C5-C6	-5.56	1.36	1.41
36	1	1854	C	C4-C5	-5.56	1.38	1.43
80	6	332	U	N1-C6	-5.56	1.32	1.38
80	6	973	A	C5-C6	-5.56	1.36	1.41
85	5	300	G	N1-C2	-5.56	1.33	1.37
85	5	1197	A	C5-C4	-5.56	1.34	1.38
85	5	1936	A	N3-C4	-5.56	1.31	1.34
85	5	1949	G	N9-C4	5.56	1.42	1.38
85	5	2302	G	N1-C2	-5.56	1.33	1.37
85	5	2892	A	N3-C4	-5.56	1.31	1.34
38	8	98	U	N3-C4	5.56	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	909	G	C8-N7	-5.56	1.27	1.30
85	5	2874	G	N7-C5	-5.56	1.35	1.39
36	1	49	A	N3-C4	-5.55	1.31	1.34
36	1	610	G	C5-C6	-5.55	1.36	1.42
36	1	1790	G	C6-N1	5.55	1.43	1.39
36	1	1921	A	N9-C4	5.55	1.41	1.37
36	1	2805	G	C5-C4	-5.55	1.34	1.38
64	N8	63	LYS	CD-CE	5.55	1.65	1.51
80	6	83	G	C6-O6	5.55	1.29	1.24
85	5	725	G	C8-N7	-5.55	1.27	1.30
85	5	2156	C	C2-N3	-5.55	1.31	1.35
36	1	290	G	N9-C8	-5.55	1.33	1.37
36	1	806	A	C6-N6	-5.55	1.29	1.33
36	1	936	A	N9-C8	-5.55	1.33	1.37
38	4	72	A	C6-N1	-5.55	1.31	1.35
85	5	54	C	C2-O2	-5.55	1.19	1.24
85	5	1660	C	C4-N4	-5.55	1.28	1.33
85	5	2802	A	C5-C4	-5.55	1.34	1.38
85	5	2913	C	C2-N3	-5.55	1.31	1.35
85	5	3272	C	C4-C5	-5.55	1.38	1.43
1	2	72	A	C6-N1	5.55	1.39	1.35
36	1	251	G	C2-N3	5.55	1.37	1.32
36	1	2990	G	C5-C4	-5.55	1.34	1.38
80	6	617	U	N1-C6	-5.55	1.32	1.38
85	5	234	G	C6-N1	5.55	1.43	1.39
85	5	3083	G	C6-N1	-5.55	1.35	1.39
56	n0	42	TRP	CB-CG	-5.55	1.40	1.50
36	1	760	G	C5-C4	-5.55	1.34	1.38
36	1	1525	G	C6-N1	-5.55	1.35	1.39
36	1	2608	G	C5-C4	-5.55	1.34	1.38
80	6	720	G	N9-C4	5.55	1.42	1.38
85	5	2298	U	N1-C6	-5.55	1.32	1.38
85	5	2799	A	C6-N6	-5.55	1.29	1.33
85	5	3016	A	N3-C4	-5.55	1.31	1.34
51	m5	25	VAL	CB-CG2	-5.55	1.41	1.52
38	8	5	U	N1-C6	-5.55	1.32	1.38
67	o1	12	TYR	CD2-CE2	-5.55	1.31	1.39
36	1	274	G	C5-C4	-5.55	1.34	1.38
36	1	368	G	C5-C4	-5.55	1.34	1.38
36	1	815	G	N9-C4	-5.55	1.33	1.38
36	1	1133	A	N9-C8	-5.55	1.33	1.37
36	1	1825	G	N7-C5	-5.55	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1927	G	C6-N1	-5.55	1.35	1.39
36	1	2424	A	N9-C4	-5.55	1.34	1.37
36	1	3130	A	C5-C4	-5.55	1.34	1.38
85	5	866	A	C6-N1	5.55	1.39	1.35
85	5	1598	G	C6-N1	-5.55	1.35	1.39
85	5	2818	U	C5-C6	-5.55	1.29	1.34
36	1	1170	A	N9-C4	-5.54	1.34	1.37
36	1	2337	C	N3-C4	-5.54	1.30	1.33
80	6	1347	U	N1-C2	-5.54	1.33	1.38
85	5	798	G	N9-C4	-5.54	1.33	1.38
47	m0	49	CYS	CB-SG	-5.54	1.72	1.81
1	2	1576	A	C6-N1	-5.54	1.31	1.35
36	1	1050	U	N3-C4	-5.54	1.33	1.38
36	1	1165	A	N7-C5	-5.54	1.35	1.39
36	1	1292	C	N1-C2	-5.54	1.34	1.40
80	6	670	U	N1-C2	5.54	1.43	1.38
85	5	421	G	C2-N2	-5.54	1.29	1.34
85	5	586	C	N1-C2	-5.54	1.34	1.40
85	5	1332	A	N9-C8	-5.54	1.33	1.37
43	l6	141	VAL	CB-CG1	-5.54	1.41	1.52
36	1	5	G	N1-C2	5.54	1.42	1.37
36	1	827	A	C5-C4	-5.54	1.34	1.38
36	1	917	A	N9-C8	-5.54	1.33	1.37
80	6	1169	G	N3-C4	-5.54	1.31	1.35
85	5	833	G	N9-C4	-5.54	1.33	1.38
85	5	1140	G	C5-C6	-5.54	1.36	1.42
85	5	1157	G	C5-C4	-5.54	1.34	1.38
85	5	1852	G	C3'-C2'	-5.54	1.46	1.52
85	5	2302	G	N7-C5	-5.54	1.35	1.39
85	5	3345	G	N1-C2	5.54	1.42	1.37
36	1	237	G	C6-N1	5.54	1.43	1.39
36	1	3309	G	C5-C4	-5.54	1.34	1.38
46	L9	180	TYR	CD1-CE1	5.54	1.47	1.39
54	M8	83	VAL	CB-CG2	-5.54	1.41	1.52
85	5	968	G	C8-N7	-5.54	1.27	1.30
85	5	2892	A	C5-C6	-5.54	1.36	1.41
36	1	2538	U	N1-C2	5.54	1.43	1.38
36	1	2600	C	N1-C6	-5.54	1.33	1.37
36	1	2632	G	C6-N1	-5.54	1.35	1.39
36	1	3309	G	C5-C6	-5.54	1.36	1.42
80	6	101	U	N1-C2	5.54	1.43	1.38
80	6	384	G	N9-C4	-5.54	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	1022	C	N1-C6	-5.54	1.33	1.37
80	6	1108	G	N9-C4	-5.54	1.33	1.38
80	6	1675	C	N1-C6	-5.54	1.33	1.37
80	6	1789	G	C6-N1	-5.54	1.35	1.39
85	5	689	U	C2-N3	-5.54	1.33	1.37
85	5	1012	G	N9-C4	-5.54	1.33	1.38
85	5	2402	A	C6-N6	-5.54	1.29	1.33
85	5	2412	G	N7-C5	-5.54	1.35	1.39
85	5	2794	G	C5-C6	-5.54	1.36	1.42
85	5	3123	A	N3-C4	-5.54	1.31	1.34
72	o6	89	GLU	CG-CD	5.54	1.60	1.51
36	1	363	G	C2-N2	-5.54	1.29	1.34
36	1	2425	G	N9-C8	-5.54	1.33	1.37
80	6	1726	G	C8-N7	-5.54	1.27	1.30
80	6	1746	A	C5-C6	-5.54	1.36	1.41
85	5	2938	G	C6-N1	-5.54	1.35	1.39
36	1	878	G	N7-C5	-5.54	1.35	1.39
36	1	1823	A	N3-C4	-5.54	1.31	1.34
36	1	3139	A	C5-C4	-5.54	1.34	1.38
85	5	98	G	C5-C6	-5.54	1.36	1.42
85	5	734	C	C2-O2	5.54	1.29	1.24
85	5	789	A	N3-C4	-5.54	1.31	1.34
85	5	946	U	N1-C2	-5.54	1.33	1.38
85	5	1755	C	N1-C2	-5.54	1.34	1.40
85	5	2417	U	C5-C6	5.54	1.39	1.34
85	5	2745	G	N3-C4	-5.54	1.31	1.35
85	5	2761	G	C6-O6	-5.54	1.19	1.24
37	7	101	G	C8-N7	-5.54	1.27	1.30
36	1	144	A	N9-C4	-5.53	1.34	1.37
36	1	282	G	C8-N7	-5.53	1.27	1.30
36	1	512	U	N1-C6	-5.53	1.32	1.38
36	1	1146	C	C4-C5	-5.53	1.38	1.43
36	1	1395	G	N9-C8	-5.53	1.33	1.37
36	1	2701	U	N3-C4	-5.53	1.33	1.38
80	6	317	C	N1-C2	-5.53	1.34	1.40
80	6	339	C	N1-C6	-5.53	1.33	1.37
85	5	370	U	N3-C4	-5.53	1.33	1.38
85	5	374	A	C6-N1	-5.53	1.31	1.35
85	5	814	U	C4-C5	-5.53	1.38	1.43
85	5	1881	A	C6-N1	-5.53	1.31	1.35
85	5	1886	A	N1-C2	-5.53	1.29	1.34
85	5	2689	A	N7-C5	-5.53	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	8	7	U	N1-C6	-5.53	1.32	1.38
85	5	1927	G	N9-C4	-5.53	1.33	1.38
1	2	328	A	C5-C6	-5.53	1.36	1.41
36	1	996	A	C6-N6	-5.53	1.29	1.33
36	1	1537	A	C5-C6	-5.53	1.36	1.41
36	1	2122	G	C6-N1	-5.53	1.35	1.39
38	4	36	G	N9-C8	-5.53	1.33	1.37
80	6	385	A	N3-C4	-5.53	1.31	1.34
85	5	517	G	C5-C4	-5.53	1.34	1.38
85	5	1879	A	C5-C6	-5.53	1.36	1.41
85	5	2412	G	N9-C8	-5.53	1.33	1.37
37	7	73	C	C2-O2	5.53	1.29	1.24
36	1	907	G	C2-N3	5.53	1.37	1.32
36	1	2127	U	C2-O2	-5.53	1.17	1.22
36	1	3073	A	C5-C4	-5.53	1.34	1.38
78	Q2	43	TYR	CD2-CE2	-5.53	1.31	1.39
85	5	277	G	N9-C8	-5.53	1.33	1.37
85	5	831	G	C5-C4	-5.53	1.34	1.38
85	5	2665	U	N1-C2	-5.53	1.33	1.38
85	5	2929	C	N1-C6	-5.53	1.33	1.37
38	8	151	C	N1-C6	-5.53	1.33	1.37
1	2	545	A	N3-C4	-5.53	1.31	1.34
36	1	1186	G	C8-N7	-5.53	1.27	1.30
36	1	2609	A	C5-C4	-5.53	1.34	1.38
85	5	1513	G	C5-C6	-5.53	1.36	1.42
85	5	1658	G	C6-N1	-5.53	1.35	1.39
85	5	2095	G	N7-C5	5.53	1.42	1.39
85	5	2975	U	O3'-P	-5.53	1.54	1.61
85	5	3251	U	C2-N3	-5.53	1.33	1.37
53	m7	78	VAL	CB-CG1	-5.53	1.41	1.52
1	2	1576	A	N3-C4	-5.53	1.31	1.34
36	1	942	U	C2-N3	-5.53	1.33	1.37
36	1	994	G	N1-C2	-5.53	1.33	1.37
36	1	2178	A	N9-C4	-5.53	1.34	1.37
36	1	2407	C	C2-N3	-5.53	1.31	1.35
36	1	3359	A	C6-N1	5.53	1.39	1.35
44	L7	161	VAL	CB-CG1	-5.53	1.41	1.52
52	M6	39	GLU	CG-CD	-5.53	1.43	1.51
85	5	909	G	C2-N2	-5.53	1.29	1.34
85	5	1418	A	N9-C8	-5.53	1.33	1.37
85	5	1427	U	N1-C6	-5.53	1.32	1.38
85	5	2239	G	C2-N3	-5.53	1.28	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2888	U	N1-C6	-5.53	1.32	1.38
85	5	3016	A	N9-C4	-5.53	1.34	1.37
36	1	2100	A	C6-N1	5.52	1.39	1.35
85	5	341	G	N7-C5	-5.52	1.35	1.39
85	5	995	U	N1-C6	-5.52	1.32	1.38
85	5	2762	A	C5-C4	-5.52	1.34	1.38
85	5	2983	C	N1-C6	-5.52	1.33	1.37
1	2	716	A	N9-C4	5.52	1.41	1.37
36	1	697	A	N9-C4	-5.52	1.34	1.37
36	1	2712	U	N1-C2	-5.52	1.33	1.38
36	1	2895	G	N9-C8	-5.52	1.33	1.37
36	1	3129	A	N3-C4	-5.52	1.31	1.34
36	1	3142	A	C5-C4	-5.52	1.34	1.38
37	3	89	G	N3-C4	-5.52	1.31	1.35
38	4	134	G	C5-C4	-5.52	1.34	1.38
39	L2	133	TYR	CD1-CE1	-5.52	1.31	1.39
49	M3	123	ILE	CB-CG2	-5.52	1.35	1.52
85	5	101	G	C6-N1	-5.52	1.35	1.39
36	1	2656	A	N7-C5	-5.52	1.35	1.39
36	1	3103	A	C6-N1	-5.52	1.31	1.35
36	1	3127	A	N3-C4	-5.52	1.31	1.34
80	6	445	A	N3-C4	5.52	1.38	1.34
85	5	46	U	N1-C2	-5.52	1.33	1.38
85	5	631	U	N1-C6	-5.52	1.32	1.38
85	5	784	A	N9-C4	-5.52	1.34	1.37
36	1	187	A	N7-C5	-5.52	1.35	1.39
36	1	1145	G	C6-N1	-5.52	1.35	1.39
36	1	1193	A	C5-C6	-5.52	1.36	1.41
36	1	3063	C	N3-C4	-5.52	1.30	1.33
36	1	3188	G	N9-C4	-5.52	1.33	1.38
67	O1	64	VAL	CB-CG1	-5.52	1.41	1.52
85	5	1017	C	N1-C2	5.52	1.45	1.40
85	5	2303	A	C5-C6	-5.52	1.36	1.41
85	5	2755	C	C2-N3	-5.52	1.31	1.35
36	1	226	C	C4-C5	-5.52	1.38	1.43
36	1	363	G	N7-C5	-5.52	1.35	1.39
36	1	501	A	C5-C4	-5.52	1.34	1.38
36	1	653	A	C6-N6	-5.52	1.29	1.33
36	1	682	U	C2-O2	-5.52	1.17	1.22
36	1	1586	G	N9-C8	-5.52	1.33	1.37
36	1	2315	G	C2-N2	-5.52	1.29	1.34
36	1	2504	U	N1-C2	5.52	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
62	N6	73	VAL	CB-CG2	-5.52	1.41	1.52
80	6	449	C	C2-N3	-5.52	1.31	1.35
85	5	46	U	C4-C5	-5.52	1.38	1.43
85	5	285	A	P-OP2	5.52	1.58	1.49
85	5	869	G	C6-O6	-5.52	1.19	1.24
85	5	898	U	P-OP1	5.52	1.58	1.49
1	2	976	A	N7-C5	-5.52	1.35	1.39
1	2	1773	A	N9-C4	-5.52	1.34	1.37
36	1	2277	C	C2-O2	-5.52	1.19	1.24
36	1	2851	A	N3-C4	-5.52	1.31	1.34
36	1	3282	U	C2-N3	5.52	1.41	1.37
65	N9	35	VAL	CB-CG2	-5.52	1.41	1.52
80	6	703	G	C6-N1	5.52	1.43	1.39
80	6	1161	C	C2-N3	-5.52	1.31	1.35
1	2	16	G	C6-N1	-5.51	1.35	1.39
36	1	2241	U	N1-C2	-5.51	1.33	1.38
36	1	2243	A	N9-C8	-5.51	1.33	1.37
36	1	2756	C	N1-C6	-5.51	1.33	1.37
36	1	2779	A	N9-C4	-5.51	1.34	1.37
85	5	349	A	C6-N6	-5.51	1.29	1.33
85	5	930	U	C5-C6	-5.51	1.29	1.34
85	5	1018	G	C5-C6	5.51	1.47	1.42
85	5	1471	U	C2-N3	-5.51	1.33	1.37
32	e0	4	VAL	CB-CG1	-5.51	1.41	1.52
85	5	2327	U	P-O5'	-5.51	1.54	1.59
36	1	92	G	C5'-C4'	-5.51	1.44	1.51
36	1	707	U	C2-N3	-5.51	1.33	1.37
36	1	931	C	N1-C6	-5.51	1.33	1.37
46	L9	93	VAL	CB-CG1	-5.51	1.41	1.52
54	M8	184	PHE	CD2-CE2	-5.51	1.28	1.39
69	O3	22	VAL	CB-CG2	-5.51	1.41	1.52
80	6	495	C	N1-C6	5.51	1.40	1.37
80	6	569	C	N3-C4	-5.51	1.30	1.33
80	6	1698	G	N9-C4	5.51	1.42	1.38
31	d9	39	CYS	CB-SG	-5.51	1.72	1.81
85	5	815	G	C8-N7	-5.51	1.27	1.30
85	5	954	U	C2-N3	-5.51	1.33	1.37
85	5	1536	G	C2-N3	-5.51	1.28	1.32
85	5	2377	G	N9-C4	-5.51	1.33	1.38
85	5	2835	U	N1-C2	-5.51	1.33	1.38
85	5	2863	G	N7-C5	-5.51	1.35	1.39
36	1	356	C	C4-C5	-5.51	1.38	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	680	G	N1-C2	-5.51	1.33	1.37
36	1	1656	A	N9-C8	-5.51	1.33	1.37
36	1	1865	A	N9-C4	-5.51	1.34	1.37
80	6	304	U	N1-C6	-5.51	1.32	1.38
85	5	824	C	N1-C2	-5.51	1.34	1.40
85	5	2251	G	N7-C5	-5.51	1.35	1.39
85	5	2346	C	N1-C2	-5.51	1.34	1.40
1	2	680	C	N1-C2	5.51	1.45	1.40
36	1	893	C	N1-C6	-5.51	1.33	1.37
36	1	2409	G	C6-N1	-5.51	1.35	1.39
36	1	2418	G	C5-C4	-5.51	1.34	1.38
36	1	2830	G	C6-N1	5.51	1.43	1.39
85	5	364	G	C4'-C3'	-5.51	1.47	1.52
85	5	436	A	N3-C4	5.51	1.38	1.34
85	5	3319	U	N1-C2	5.51	1.43	1.38
1	2	594	A	C5-C6	5.51	1.46	1.41
80	6	1346	A	N9-C4	5.51	1.41	1.37
85	5	658	G	C6-N1	-5.51	1.35	1.39
85	5	1924	U	C5-C6	-5.51	1.29	1.34
85	5	3156	U	C4-C5	5.51	1.48	1.43
85	5	3325	G	N9-C8	-5.51	1.33	1.37
36	1	424	G	N9-C4	-5.50	1.33	1.38
80	6	486	G	C5-C4	5.50	1.42	1.38
85	5	2249	G	C6-N1	-5.50	1.35	1.39
1	2	331	A	C5-C4	-5.50	1.34	1.38
36	1	107	A	N3-C4	-5.50	1.31	1.34
36	1	269	G	C5-C6	-5.50	1.36	1.42
36	1	2809	C	C4-C5	-5.50	1.38	1.43
54	M8	106	PHE	CD2-CE2	-5.50	1.28	1.39
79	Q3	47	VAL	CB-CG2	-5.50	1.41	1.52
80	6	558	U	N1-C2	5.50	1.43	1.38
80	6	907	A	N7-C5	-5.50	1.35	1.39
85	5	100	A	C5-C4	-5.50	1.34	1.38
85	5	443	G	C5-C6	5.50	1.47	1.42
62	n6	108	LYS	CD-CE	5.50	1.65	1.51
36	1	272	G	N9-C8	-5.50	1.33	1.37
36	1	388	G	N3-C4	-5.50	1.31	1.35
36	1	547	G	C5-C4	5.50	1.42	1.38
36	1	1380	G	C2-N2	-5.50	1.29	1.34
36	1	2788	C	N1-C2	-5.50	1.34	1.40
85	5	1171	G	C5-C4	-5.50	1.34	1.38
37	7	13	A	C5-C4	-5.50	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	335	G	C3'-C2'	-5.50	1.46	1.52
36	1	945	C	N1-C6	-5.50	1.33	1.37
36	1	1340	G	N9-C4	-5.50	1.33	1.38
80	6	943	C	C2-N3	-5.50	1.31	1.35
85	5	2926	A	N3-C4	-5.50	1.31	1.34
85	5	3205	G	N3-C4	-5.50	1.31	1.35
38	8	24	G	N1-C2	-5.50	1.33	1.37
1	2	921	G	C6-N1	-5.50	1.35	1.39
36	1	1394	A	C6-N6	-5.50	1.29	1.33
36	1	1438	U	C2-O2	-5.50	1.17	1.22
36	1	1764	U	O3'-P	5.50	1.67	1.61
36	1	2864	A	C6-N6	-5.50	1.29	1.33
36	1	3087	A	N9-C4	5.50	1.41	1.37
85	5	361	A	N9-C8	-5.50	1.33	1.37
85	5	1156	C	C4-C5	-5.50	1.38	1.43
85	5	2183	A	C5-C6	-5.50	1.36	1.41
38	8	43	A	N7-C5	-5.50	1.35	1.39
36	1	518	G	N9-C4	-5.50	1.33	1.38
36	1	1506	A	N7-C5	-5.50	1.35	1.39
36	1	2740	A	N9-C4	-5.50	1.34	1.37
36	1	3025	C	N3-C4	-5.50	1.30	1.33
47	M0	186	GLU	CG-CD	5.50	1.60	1.51
80	6	313	U	C2'-C1'	-5.50	1.47	1.53
80	6	420	A	N7-C5	-5.50	1.35	1.39
80	6	571	G	C6-N1	-5.50	1.35	1.39
80	6	1040	G	N9-C4	5.50	1.42	1.38
15	c3	83	GLU	CB-CG	5.50	1.62	1.52
85	5	1054	A	N9-C8	-5.50	1.33	1.37
85	5	1406	A	C6-N6	-5.50	1.29	1.33
85	5	2627	C	C2'-C1'	-5.50	1.47	1.53
85	5	2769	A	N9-C4	-5.50	1.34	1.37
85	5	2939	G	P-OP2	-5.50	1.39	1.49
85	5	2963	C	N1-C6	-5.50	1.33	1.37
85	5	3257	C	N1-C6	-5.50	1.33	1.37
36	1	832	G	N3-C4	-5.50	1.31	1.35
36	1	2389	C	N1-C2	-5.50	1.34	1.40
36	1	3328	G	C6-N1	-5.50	1.35	1.39
80	6	157	A	C5-C4	-5.50	1.34	1.38
1	2	238	U	C2-N3	5.49	1.41	1.37
36	1	948	C	N3-C4	-5.49	1.30	1.33
36	1	1898	G	N7-C5	-5.49	1.35	1.39
36	1	2341	A	N9-C8	-5.49	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2617	U	C4-O4	5.49	1.28	1.23
42	L5	124	GLU	CB-CG	5.49	1.62	1.52
54	M8	153	PHE	CD1-CE1	-5.49	1.28	1.39
85	5	70	A	N9-C4	-5.49	1.34	1.37
85	5	1332	A	C5-C4	-5.49	1.34	1.38
85	5	3264	G	N7-C5	-5.49	1.35	1.39
37	7	84	A	C5-C4	-5.49	1.34	1.38
80	6	448	C	C2-O2	-5.49	1.19	1.24
85	5	1154	A	C5-C6	5.49	1.46	1.41
85	5	3049	A	C6-N1	-5.49	1.31	1.35
1	2	309	C	N1-C6	-5.49	1.33	1.37
36	1	1389	G	N7-C5	-5.49	1.35	1.39
3	s1	31	ASP	CB-CG	5.49	1.63	1.51
85	5	431	U	N1-C2	-5.49	1.33	1.38
85	5	997	A	C5-C6	-5.49	1.36	1.41
85	5	2353	G	C8-N7	-5.49	1.27	1.30
85	5	2372	A	N7-C5	-5.49	1.35	1.39
38	8	114	G	N1-C2	5.49	1.42	1.37
1	2	584	C	N1-C6	-5.49	1.33	1.37
1	2	606	A	N9-C4	-5.49	1.34	1.37
36	1	730	C	N1-C6	-5.49	1.33	1.37
36	1	1814	A	N9-C4	5.49	1.41	1.37
36	1	1955	U	N1-C2	5.49	1.43	1.38
36	1	2554	A	C5-C4	-5.49	1.34	1.38
47	M0	89	VAL	CB-CG2	-5.49	1.41	1.52
80	6	575	C	N1-C6	-5.49	1.33	1.37
85	5	370	U	C4-O4	-5.49	1.19	1.23
85	5	1178	G	N1-C2	-5.49	1.33	1.37
85	5	2106	A	C5-C6	-5.49	1.36	1.41
85	5	2557	A	N9-C4	-5.49	1.34	1.37
37	7	51	A	C6-N1	-5.49	1.31	1.35
36	1	716	A	C6-N1	5.49	1.39	1.35
36	1	862	U	C4-O4	-5.49	1.19	1.23
85	5	672	A	N9-C4	-5.49	1.34	1.37
85	5	2291	A	N3-C4	-5.49	1.31	1.34
1	2	1285	U	C2-N3	-5.49	1.33	1.37
36	1	1529	A	C5-C6	-5.49	1.36	1.41
38	4	98	U	C2-N3	-5.49	1.33	1.37
41	L4	265	GLU	CB-CG	5.49	1.62	1.52
46	L9	12	VAL	CB-CG2	-5.49	1.41	1.52
51	M5	53	TYR	CE1-CZ	-5.49	1.31	1.38
80	6	776	G	N9-C4	-5.49	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	353	G	C6-N1	-5.49	1.35	1.39
85	5	2888	U	P-OP1	-5.49	1.39	1.49
85	5	2907	G	C5-C6	-5.49	1.36	1.42
85	5	2938	G	P-O5'	-5.49	1.54	1.59
85	5	2975	U	C2-N3	-5.49	1.33	1.37
85	5	3230	G	N3-C4	-5.49	1.31	1.35
85	5	3335	A	N7-C5	-5.49	1.35	1.39
37	7	27	A	N3-C4	-5.49	1.31	1.34
37	7	121	U	N3-C4	5.49	1.43	1.38
70	o4	11	ASN	C-N	-5.49	1.23	1.34
38	4	80	A	N9-C4	-5.48	1.34	1.37
80	6	803	A	N9-C4	5.48	1.41	1.37
36	1	361	A	C6-N6	-5.48	1.29	1.33
36	1	1857	C	P-O5'	-5.48	1.54	1.59
36	1	2355	G	N3-C4	-5.48	1.31	1.35
85	5	103	G	C2-N3	-5.48	1.28	1.32
85	5	988	U	C2-O2	-5.48	1.17	1.22
85	5	1009	A	C5-C6	-5.48	1.36	1.41
85	5	2760	C	N1-C2	-5.48	1.34	1.40
36	1	2355	G	N7-C5	-5.48	1.35	1.39
36	1	2834	G	N1-C2	-5.48	1.33	1.37
38	4	3	A	N9-C4	-5.48	1.34	1.37
85	5	1445	U	N1-C2	-5.48	1.33	1.38
85	5	2353	G	O3'-P	-5.48	1.54	1.61
85	5	2374	C	N3-C4	-5.48	1.30	1.33
85	5	2906	C	N1-C6	-5.48	1.33	1.37
85	5	3207	U	C4-C5	5.48	1.48	1.43
38	8	42	G	N9-C4	-5.48	1.33	1.38
69	o3	26	ASN	CB-CG	-5.48	1.38	1.51
36	1	1296	C	N1-C2	-5.48	1.34	1.40
36	1	2326	A	N3-C4	-5.48	1.31	1.34
85	5	2291	A	C5-C4	-5.48	1.34	1.38
85	5	2886	U	N1-C2	-5.48	1.33	1.38
1	2	234	G	C5-C4	5.48	1.42	1.38
36	1	415	G	N3-C4	-5.48	1.31	1.35
36	1	597	G	C5-C4	-5.48	1.34	1.38
36	1	1332	A	C6-N1	-5.48	1.31	1.35
36	1	1435	A	C5-C6	-5.48	1.36	1.41
36	1	3121	U	C4-O4	-5.48	1.19	1.23
36	1	3242	G	C5-C4	-5.48	1.34	1.38
80	6	1732	A	C6-N1	-5.48	1.31	1.35
85	5	394	G	N9-C8	-5.48	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1571	A	N9-C4	5.48	1.41	1.37
85	5	2648	G	N7-C5	-5.48	1.35	1.39
68	o2	57	TYR	CD2-CE2	-5.48	1.31	1.39
85	5	1096	U	C2-N3	5.48	1.41	1.37
85	5	1428	A	N9-C8	-5.48	1.33	1.37
85	5	1587	A	N9-C8	-5.48	1.33	1.37
36	1	60	A	C5-C6	-5.47	1.36	1.41
36	1	744	A	N9-C8	-5.47	1.33	1.37
36	1	1404	G	N9-C8	-5.47	1.34	1.37
36	1	1426	C	C4'-C3'	-5.47	1.47	1.52
36	1	1453	A	C5-C4	-5.47	1.34	1.38
36	1	1907	C	C2-N3	-5.47	1.31	1.35
36	1	2727	A	C5-C4	-5.47	1.34	1.38
36	1	2956	A	C6-N6	-5.47	1.29	1.33
38	4	148	G	N3-C4	-5.47	1.31	1.35
40	L3	85	VAL	CB-CG1	-5.47	1.41	1.52
85	5	810	A	C6-N1	-5.47	1.31	1.35
85	5	921	A	N1-C2	-5.47	1.29	1.34
85	5	1569	U	N1-C6	5.47	1.42	1.38
85	5	2753	G	N1-C2	-5.47	1.33	1.37
85	5	2753	G	N3-C4	-5.47	1.31	1.35
38	8	47	C	N3-C4	-5.47	1.30	1.33
40	l3	130	PHE	CD2-CE2	-5.47	1.28	1.39
42	l5	126	GLU	CG-CD	5.47	1.60	1.51
1	2	1086	U	C2-N3	-5.47	1.33	1.37
36	1	972	A	C5-C4	-5.47	1.34	1.38
36	1	1154	A	C6-N6	-5.47	1.29	1.33
36	1	1186	G	N1-C2	-5.47	1.33	1.37
80	6	436	A	C5-C4	-5.47	1.34	1.38
80	6	534	A	N9-C4	5.47	1.41	1.37
80	6	1791	A	N9-C4	-5.47	1.34	1.37
85	5	563	U	C2-N3	-5.47	1.33	1.37
85	5	1470	U	N3-C4	-5.47	1.33	1.38
85	5	1857	C	C2-N3	-5.47	1.31	1.35
85	5	1909	A	C6-N6	-5.47	1.29	1.33
85	5	2658	G	C2-N3	-5.47	1.28	1.32
85	5	2869	U	N3-C4	-5.47	1.33	1.38
85	5	2941	A	C5-C4	-5.47	1.34	1.38
36	1	3148	U	N1-C2	-5.47	1.33	1.38
36	1	3266	G	C6-N1	-5.47	1.35	1.39
85	5	2907	G	N9-C8	-5.47	1.34	1.37
1	2	982	U	C2-N3	5.47	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	S9	95	TYR	CD2-CE2	5.47	1.47	1.39
36	1	593	C	N1-C2	-5.47	1.34	1.40
36	1	684	G	N9-C4	-5.47	1.33	1.38
36	1	1083	G	C6-O6	-5.47	1.19	1.24
36	1	1170	A	N3-C4	-5.47	1.31	1.34
36	1	1183	C	C5-C6	-5.47	1.29	1.34
36	1	3106	A	C6-N1	-5.47	1.31	1.35
85	5	195	U	C4-O4	-5.47	1.19	1.23
85	5	1902	G	C6-N1	-5.47	1.35	1.39
85	5	2160	G	N3-C4	-5.47	1.31	1.35
1	2	748	G	N3-C4	5.47	1.39	1.35
1	2	1638	A	N7-C5	-5.47	1.35	1.39
36	1	54	C	C2-N3	-5.47	1.31	1.35
36	1	741	U	N3-C4	-5.47	1.33	1.38
36	1	2113	A	N9-C4	5.47	1.41	1.37
36	1	2328	U	N3-C4	-5.47	1.33	1.38
36	1	2394	G	C2-N3	-5.47	1.28	1.32
36	1	2525	G	C6-O6	-5.47	1.19	1.24
80	6	41	A	C5-C4	-5.47	1.34	1.38
80	6	984	G	N3-C4	-5.47	1.31	1.35
85	5	882	A	N9-C4	-5.47	1.34	1.37
85	5	2820	A	N9-C4	-5.47	1.34	1.37
1	2	1792	G	C6-N1	5.47	1.43	1.39
85	5	1681	U	N1-C2	-5.47	1.33	1.38
85	5	2193	U	C2-N3	-5.47	1.33	1.37
85	5	2780	A	C6-N1	-5.47	1.31	1.35
1	2	740	A	N9-C4	-5.46	1.34	1.37
1	2	1097	G	C5-C4	-5.46	1.34	1.38
1	2	1319	A	N9-C4	-5.46	1.34	1.37
1	2	1416	G	N7-C5	-5.46	1.35	1.39
36	1	1306	G	C5-C6	-5.46	1.36	1.42
37	3	7	G	N3-C4	-5.46	1.31	1.35
80	6	550	A	C6-N1	-5.46	1.31	1.35
85	5	252	U	N3-C4	5.46	1.43	1.38
85	5	1662	G	N7-C5	-5.46	1.35	1.39
85	5	2920	U	C4-C5	-5.46	1.38	1.43
85	5	2938	G	C5-C4	-5.46	1.34	1.38
85	5	3034	C	N1-C6	-5.46	1.33	1.37
36	1	100	A	C5-C4	-5.46	1.34	1.38
36	1	800	G	N7-C5	-5.46	1.35	1.39
36	1	2984	C	C4-C5	-5.46	1.38	1.43
80	6	923	A	N9-C8	-5.46	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	8	2	A	N3-C4	-5.46	1.31	1.34
1	2	1094	G	N9-C8	-5.46	1.34	1.37
36	1	104	G	N7-C5	-5.46	1.35	1.39
36	1	109	A	C5-C4	-5.46	1.34	1.38
36	1	363	G	C8-N7	-5.46	1.27	1.30
36	1	1947	G	N9-C8	-5.46	1.34	1.37
36	1	2150	G	N9-C8	-5.46	1.34	1.37
36	1	2971	A	N9-C8	5.46	1.42	1.37
36	1	3216	G	C6-N1	-5.46	1.35	1.39
85	5	573	C	N1-C6	-5.46	1.33	1.37
85	5	585	A	C5-C4	-5.46	1.34	1.38
85	5	906	A	P-O5'	-5.46	1.54	1.59
85	5	2249	G	C5-C4	-5.46	1.34	1.38
36	1	1401	A	C5-C4	-5.46	1.34	1.38
36	1	1469	C	C2-N3	-5.46	1.31	1.35
85	5	1051	U	N1-C6	-5.46	1.33	1.38
78	q2	78	LYS	CB-CG	5.46	1.67	1.52
85	5	390	G	N9-C4	-5.46	1.33	1.38
85	5	1095	U	C4-O4	5.46	1.28	1.23
85	5	1406	A	N9-C4	-5.46	1.34	1.37
85	5	1712	G	C6-N1	-5.46	1.35	1.39
85	5	1884	A	N9-C8	-5.46	1.33	1.37
85	5	3102	G	C6-N1	-5.46	1.35	1.39
42	l5	53	VAL	CB-CG2	-5.46	1.41	1.52
73	o7	26	SER	CA-CB	-5.46	1.44	1.52
36	1	43	A	C5-C4	-5.46	1.34	1.38
80	6	943	C	N1-C2	-5.46	1.34	1.40
85	5	802	C	O3'-P	-5.46	1.54	1.61
85	5	2955	U	C2-O2	-5.46	1.17	1.22
85	5	3294	A	C6-N1	-5.46	1.31	1.35
37	7	110	G	C5-C4	-5.46	1.34	1.38
36	1	2501	U	N1-C6	5.46	1.42	1.38
36	1	2640	A	C5-C4	-5.46	1.34	1.38
85	5	2313	A	C6-N1	-5.46	1.31	1.35
85	5	2607	G	N3-C4	-5.46	1.31	1.35
36	1	174	C	N3-C4	5.45	1.37	1.33
36	1	677	A	C5-C4	-5.45	1.34	1.38
36	1	1321	G	N9-C8	-5.45	1.34	1.37
36	1	1536	G	N9-C4	-5.45	1.33	1.38
36	1	2107	A	N3-C4	-5.45	1.31	1.34
36	1	2155	G	C5-C4	-5.45	1.34	1.38
36	1	2627	C	C2-O2	-5.45	1.19	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2697	A	C5-C4	-5.45	1.34	1.38
80	6	43	A	N7-C5	-5.45	1.35	1.39
80	6	674	C	N1-C2	5.45	1.45	1.40
85	5	821	U	C4'-C3'	-5.45	1.47	1.52
85	5	1490	A	C6-N6	-5.45	1.29	1.33
85	5	1695	U	C2-N3	-5.45	1.33	1.37
85	5	2702	A	C5-C6	-5.45	1.36	1.41
42	l5	280	GLU	CG-CD	5.45	1.60	1.51
36	1	1591	G	N7-C5	-5.45	1.35	1.39
36	1	3136	G	C6-N1	-5.45	1.35	1.39
78	Q2	43	TYR	CD1-CE1	-5.45	1.31	1.39
20	c8	21	ASN	CA-CB	5.45	1.67	1.53
85	5	1020	G	N3-C4	5.45	1.39	1.35
85	5	1319	G	N7-C5	-5.45	1.35	1.39
38	8	157	U	N1-C2	5.45	1.43	1.38
36	1	249	U	N1-C2	5.45	1.43	1.38
36	1	983	A	N9-C4	-5.45	1.34	1.37
38	4	104	A	C5-C6	-5.45	1.36	1.41
80	6	1028	C	N1-C6	-5.45	1.33	1.37
85	5	326	U	N3-C4	5.45	1.43	1.38
85	5	723	U	N1-C6	-5.45	1.33	1.38
85	5	1499	C	N3-C4	-5.45	1.30	1.33
85	5	2128	C	C4-C5	-5.45	1.38	1.43
85	5	2261	G	N9-C4	-5.45	1.33	1.38
85	5	2336	U	C2-O2	-5.45	1.17	1.22
85	5	2660	G	C5-C4	-5.45	1.34	1.38
38	8	79	A	N3-C4	5.45	1.38	1.34
40	l3	130	PHE	CD1-CE1	-5.45	1.28	1.39
42	l5	263	GLU	CG-CD	-5.45	1.43	1.51
36	1	1401	A	N3-C4	-5.45	1.31	1.34
36	1	1747	G	C2-N3	-5.45	1.28	1.32
85	5	3332	U	C4-O4	-5.45	1.19	1.23
37	7	4	U	C2-N3	-5.45	1.33	1.37
37	7	49	G	C6-N1	5.45	1.43	1.39
36	1	3027	A	C5-C4	5.45	1.42	1.38
85	5	1102	A	N3-C4	-5.45	1.31	1.34
36	1	878	G	N3-C4	-5.45	1.31	1.35
36	1	1758	G	C5-C6	5.45	1.47	1.42
36	1	2733	A	N7-C5	-5.45	1.35	1.39
36	1	3379	C	C4-N4	5.45	1.38	1.33
38	4	150	G	N9-C8	-5.45	1.34	1.37
80	6	10	G	N9-C8	-5.45	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	1127	G	N3-C4	-5.45	1.31	1.35
85	5	753	C	C2-N3	-5.45	1.31	1.35
85	5	1441	G	C2-N2	-5.45	1.29	1.34
85	5	2559	U	N1-C6	-5.45	1.33	1.38
85	5	3128	G	C6-N1	-5.45	1.35	1.39
85	5	3173	G	N7-C5	-5.45	1.35	1.39
1	2	980	G	N7-C5	-5.44	1.35	1.39
36	1	364	G	C5-C6	-5.44	1.36	1.42
36	1	904	A	N9-C8	-5.44	1.33	1.37
36	1	937	G	N1-C2	-5.44	1.33	1.37
36	1	1880	U	N1-C2	-5.44	1.33	1.38
36	1	3253	G	N9-C8	5.44	1.41	1.37
36	1	21	G	N9-C8	-5.44	1.34	1.37
36	1	208	C	N3-C4	-5.44	1.30	1.33
36	1	928	C	C2-O2	-5.44	1.19	1.24
36	1	981	U	N3-C4	5.44	1.43	1.38
36	1	1178	G	C6-O6	-5.44	1.19	1.24
36	1	1560	G	N7-C5	5.44	1.42	1.39
85	5	637	C	N1-C2	-5.44	1.34	1.40
85	5	1415	U	C4'-C3'	-5.44	1.47	1.52
85	5	2365	C	C4-C5	-5.44	1.38	1.43
85	5	2529	A	N3-C4	-5.44	1.31	1.34
85	5	2695	A	C6-N6	-5.44	1.29	1.33
1	2	771	A	N3-C4	5.44	1.38	1.34
36	1	1672	U	N1-C2	-5.44	1.33	1.38
36	1	1818	U	C2-N3	5.44	1.41	1.37
36	1	2315	G	N1-C2	-5.44	1.33	1.37
36	1	2724	U	C2-O2	-5.44	1.17	1.22
80	6	15	U	N3-C4	-5.44	1.33	1.38
80	6	1160	A	N7-C5	-5.44	1.35	1.39
85	5	345	G	N9-C4	-5.44	1.33	1.38
85	5	759	U	N1-C2	-5.44	1.33	1.38
85	5	1080	A	N7-C5	-5.44	1.35	1.39
85	5	2623	G	C8-N7	-5.44	1.27	1.30
85	5	2951	G	C5-C4	-5.44	1.34	1.38
85	5	3308	C	N1-C2	-5.44	1.34	1.40
36	1	1566	A	N9-C4	5.44	1.41	1.37
36	1	2099	A	C5-C4	5.44	1.42	1.38
36	1	2615	G	C5-C4	-5.44	1.34	1.38
36	1	2937	G	N9-C8	-5.44	1.34	1.37
85	5	359	U	C4-C5	-5.44	1.38	1.43
1	2	1285	U	N1-C6	-5.44	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	579	G	N1-C2	-5.44	1.33	1.37
36	1	678	G	N9-C8	-5.44	1.34	1.37
36	1	844	G	N9-C8	-5.44	1.34	1.37
36	1	2938	G	N3-C4	-5.44	1.31	1.35
24	d2	6	VAL	CB-CG1	-5.44	1.41	1.52
85	5	73	C	N3-C4	-5.44	1.30	1.33
85	5	91	G	C2-N3	-5.44	1.28	1.32
85	5	1168	U	N1-C6	-5.44	1.33	1.38
85	5	2194	G	O3'-P	-5.44	1.54	1.61
85	5	2673	A	N3-C4	-5.44	1.31	1.34
1	2	848	A	C5-C6	-5.44	1.36	1.41
37	3	92	A	N3-C4	-5.44	1.31	1.34
85	5	858	A	N3-C4	-5.44	1.31	1.34
85	5	1305	U	N1-C6	-5.44	1.33	1.38
85	5	2175	U	P-O5'	-5.44	1.54	1.59
36	1	157	A	N7-C5	-5.43	1.35	1.39
36	1	672	A	N7-C5	-5.43	1.35	1.39
80	6	1655	A	N3-C4	-5.43	1.31	1.34
85	5	1126	G	N1-C2	-5.43	1.33	1.37
85	5	1186	G	C2-N3	-5.43	1.28	1.32
85	5	1802	C	C2-N3	-5.43	1.31	1.35
85	5	1893	A	C6-N1	-5.43	1.31	1.35
85	5	1904	C	N1-C6	-5.43	1.33	1.37
85	5	2917	G	C6-N1	-5.43	1.35	1.39
36	1	32	U	N1-C6	-5.43	1.33	1.38
36	1	251	G	C5-C6	5.43	1.47	1.42
36	1	251	G	C6-N1	5.43	1.43	1.39
36	1	1169	A	C6-N6	-5.43	1.29	1.33
36	1	2911	A	N7-C5	-5.43	1.35	1.39
80	6	1040	G	C5-C4	5.43	1.42	1.38
85	5	2817	A	N9-C8	-5.43	1.33	1.37
76	q0	89	TYR	CD1-CE1	5.43	1.47	1.39
36	1	2393	G	C5-C4	-5.43	1.34	1.38
36	1	3070	A	N9-C4	-5.43	1.34	1.37
36	1	3320	A	N3-C4	-5.43	1.31	1.34
80	6	611	U	C2-N3	-5.43	1.33	1.37
80	6	634	G	N3-C4	-5.43	1.31	1.35
80	6	871	G	C6-N1	5.43	1.43	1.39
85	5	971	G	C5-C4	-5.43	1.34	1.38
85	5	1607	U	C3'-O3'	5.43	1.49	1.42
85	5	2429	G	P-OP2	5.43	1.58	1.49
85	5	2515	A	N3-C4	-5.43	1.31	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	148	G	N9-C8	-5.43	1.34	1.37
36	1	196	G	N9-C8	-5.43	1.34	1.37
36	1	917	A	N9-C4	-5.43	1.34	1.37
36	1	2289	U	N1-C6	-5.43	1.33	1.38
36	1	2350	C	N3-C4	-5.43	1.30	1.33
36	1	2364	G	C2-N3	-5.43	1.28	1.32
36	1	3156	U	C2-N3	5.43	1.41	1.37
85	5	792	G	N9-C4	-5.43	1.33	1.38
85	5	825	U	P-OP1	-5.43	1.39	1.49
85	5	1442	U	N3-C4	-5.43	1.33	1.38
85	5	1839	A	N9-C8	-5.43	1.33	1.37
85	5	2276	G	C2-N3	-5.43	1.28	1.32
85	5	2745	G	N9-C4	-5.43	1.33	1.38
85	5	3200	G	C6-N1	-5.43	1.35	1.39
36	1	2426	U	N3-C4	-5.43	1.33	1.38
36	1	2786	G	N9-C8	-5.43	1.34	1.37
36	1	2820	A	C5-C4	-5.43	1.34	1.38
85	5	1155	C	C2-O2	-5.43	1.19	1.24
36	1	144	A	N7-C5	-5.43	1.35	1.39
36	1	804	C	C5-C6	-5.43	1.30	1.34
36	1	1020	G	C6-N1	5.43	1.43	1.39
36	1	2297	U	C2-O2	-5.43	1.17	1.22
80	6	392	G	C5-C4	-5.43	1.34	1.38
85	5	121	A	C5-C6	-5.43	1.36	1.41
85	5	676	G	C6-N1	-5.43	1.35	1.39
85	5	747	A	N3-C4	-5.43	1.31	1.34
85	5	1083	G	C5-C4	-5.43	1.34	1.38
85	5	2977	G	N3-C4	-5.43	1.31	1.35
85	5	3103	A	C6-N6	-5.43	1.29	1.33
41	14	71	VAL	CB-CG2	-5.43	1.41	1.52
36	1	421	G	C5-C4	-5.42	1.34	1.38
36	1	1047	A	N7-C5	-5.42	1.35	1.39
36	1	1334	U	N1-C6	-5.42	1.33	1.38
85	5	242	C	N3-C4	5.42	1.37	1.33
85	5	2172	A	C6-N1	-5.42	1.31	1.35
85	5	2416	U	C2-O2	-5.42	1.17	1.22
85	5	2850	G	C8-N7	-5.42	1.27	1.30
85	5	3187	A	C5-C4	-5.42	1.34	1.38
36	1	1109	U	N1-C2	-5.42	1.33	1.38
36	1	1115	G	C2-N2	-5.42	1.29	1.34
36	1	2790	A	C6-N1	-5.42	1.31	1.35
36	1	3296	A	C6-N1	-5.42	1.31	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	4	91	C	N3-C4	-5.42	1.30	1.33
80	6	148	A	C5-C4	-5.42	1.34	1.38
80	6	947	U	C2-N3	5.42	1.41	1.37
85	5	835	G	N9-C8	-5.42	1.34	1.37
85	5	1507	G	C8-N7	-5.42	1.27	1.30
36	1	971	G	C6-O6	-5.42	1.19	1.24
36	1	1145	G	C5-C6	-5.42	1.36	1.42
36	1	1664	G	C2-N3	-5.42	1.28	1.32
36	1	2376	G	C8-N7	5.42	1.34	1.30
36	1	3308	C	N1-C2	-5.42	1.34	1.40
80	6	555	A	C6-N6	-5.42	1.29	1.33
85	5	504	A	C6-N6	-5.42	1.29	1.33
85	5	945	C	N3-C4	-5.42	1.30	1.33
85	5	990	U	N3-C4	-5.42	1.33	1.38
85	5	2722	U	N3-C4	-5.42	1.33	1.38
85	5	2848	G	C2-N3	-5.42	1.28	1.32
1	2	1115	A	N3-C4	-5.42	1.31	1.34
1	2	1625	G	N3-C4	-5.42	1.31	1.35
36	1	220	G	C5-C4	-5.42	1.34	1.38
36	1	1302	A	N3-C4	-5.42	1.31	1.34
36	1	3188	G	N7-C5	-5.42	1.35	1.39
80	6	1027	A	N3-C4	-5.42	1.31	1.34
1	2	22	A	C5-C6	-5.42	1.36	1.41
36	1	176	G	C5-C4	5.42	1.42	1.38
36	1	405	U	C5-C6	-5.42	1.29	1.34
36	1	519	A	C6-N1	-5.42	1.31	1.35
36	1	1542	G	N9-C8	5.42	1.41	1.37
36	1	1804	A	N7-C5	-5.42	1.35	1.39
36	1	2313	A	N3-C4	-5.42	1.31	1.34
80	6	815	G	N9-C8	5.42	1.41	1.37
80	6	1362	U	N1-C2	5.42	1.43	1.38
85	5	20	A	C6-N1	-5.42	1.31	1.35
85	5	413	U	N1-C6	-5.42	1.33	1.38
85	5	844	G	N1-C2	-5.42	1.33	1.37
85	5	848	A	N3-C4	-5.42	1.31	1.34
85	5	943	U	P-O5'	-5.42	1.54	1.59
85	5	1321	G	C5-C6	-5.42	1.36	1.42
85	5	2247	G	N9-C4	-5.42	1.33	1.38
85	5	2780	A	C5-C6	-5.42	1.36	1.41
85	5	2789	U	N1-C2	-5.42	1.33	1.38
38	8	117	C	N1-C6	-5.42	1.33	1.37
36	1	1149	G	C5-C4	-5.42	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1738	C	N1-C6	-5.42	1.33	1.37
38	4	72	A	N7-C5	-5.42	1.35	1.39
80	6	1293	U	C4-C5	5.42	1.48	1.43
80	6	1727	G	N3-C4	-5.42	1.31	1.35
85	5	713	U	N1-C6	-5.42	1.33	1.38
85	5	828	A	N7-C5	-5.42	1.35	1.39
85	5	1357	G	C2-N3	-5.42	1.28	1.32
85	5	1885	U	N1-C6	-5.42	1.33	1.38
85	5	2320	A	N9-C8	-5.42	1.33	1.37
36	1	2913	C	C2-N3	-5.42	1.31	1.35
36	1	3336	A	C6-N1	-5.42	1.31	1.35
46	L9	151	VAL	CB-CG2	-5.42	1.41	1.52
80	6	1418	G	N1-C2	5.42	1.42	1.37
85	5	86	G	N9-C8	-5.42	1.34	1.37
85	5	841	A	C5-C6	-5.42	1.36	1.41
85	5	1430	U	N1-C2	-5.42	1.33	1.38
85	5	1744	G	N9-C4	-5.42	1.33	1.38
85	5	2131	A	C6-N1	-5.42	1.31	1.35
1	2	447	U	C2-N3	5.41	1.41	1.37
36	1	343	U	C4-C5	-5.41	1.38	1.43
36	1	1784	G	N9-C4	-5.41	1.33	1.38
36	1	2408	U	N3-C4	-5.41	1.33	1.38
85	5	808	A	C5-C4	-5.41	1.34	1.38
85	5	3309	G	N9-C8	-5.41	1.34	1.37
36	1	4	U	C2-O2	5.41	1.27	1.22
36	1	217	U	C2-O2	-5.41	1.17	1.22
36	1	1147	G	N9-C4	-5.41	1.33	1.38
80	6	1114	G	P-O5'	-5.41	1.54	1.59
36	1	66	A	C5-C6	-5.41	1.36	1.41
36	1	588	G	C6-O6	-5.41	1.19	1.24
36	1	1163	A	N9-C4	-5.41	1.34	1.37
80	6	453	U	C2-N3	5.41	1.41	1.37
80	6	481	A	N7-C5	5.41	1.42	1.39
36	1	1846	C	N1-C2	-5.41	1.34	1.40
36	1	2297	U	C2-N3	-5.41	1.33	1.37
36	1	2389	C	C4-C5	-5.41	1.38	1.43
80	6	99	C	N3-C4	-5.41	1.30	1.33
80	6	1652	C	N1-C2	-5.41	1.34	1.40
85	5	1434	G	C5-C6	-5.41	1.36	1.42
85	5	3133	C	C4-C5	-5.41	1.38	1.43
38	8	44	A	C6-N1	-5.41	1.31	1.35
1	2	1487	G	N7-C5	-5.41	1.36	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	580	C	C2-O2	-5.41	1.19	1.24
36	1	1404	G	N1-C2	-5.41	1.33	1.37
36	1	2206	G	N3-C4	5.41	1.39	1.35
36	1	214	G	C6-N1	-5.41	1.35	1.39
36	1	1176	C	C4-C5	-5.41	1.38	1.43
36	1	1918	C	N3-C4	-5.41	1.30	1.33
80	6	1286	U	C2-N3	-5.41	1.33	1.37
85	5	586	C	C5-C6	-5.41	1.30	1.34
85	5	1340	G	N1-C2	-5.41	1.33	1.37
85	5	1467	A	C5-C4	-5.41	1.34	1.38
85	5	2193	U	N3-C4	-5.41	1.33	1.38
36	1	923	C	C2-O2	5.40	1.29	1.24
38	4	151	C	C2-N3	5.40	1.40	1.35
1	2	629	U	C2-N3	-5.40	1.33	1.37
36	1	538	G	N3-C4	-5.40	1.31	1.35
36	1	1736	G	N3-C4	-5.40	1.31	1.35
36	1	2224	A	C6-N1	-5.40	1.31	1.35
36	1	3167	A	C5-C6	5.40	1.46	1.41
80	6	1022	C	N3-C4	-5.40	1.30	1.33
80	6	1131	A	C5-C6	-5.40	1.36	1.41
85	5	1370	G	C6-O6	-5.40	1.19	1.24
85	5	1894	U	C4'-C3'	-5.40	1.47	1.52
85	5	2112	U	N1-C2	-5.40	1.33	1.38
85	5	2302	G	C2-N3	-5.40	1.28	1.32
53	m7	154	GLU	CB-CG	5.40	1.62	1.52
1	2	47	A	C5-C6	-5.40	1.36	1.41
1	2	1650	A	N3-C4	-5.40	1.31	1.34
36	1	1150	A	C5-C6	-5.40	1.36	1.41
36	1	1458	U	C2-N3	-5.40	1.33	1.37
36	1	1566	A	N3-C4	5.40	1.38	1.34
36	1	2732	G	C6-O6	-5.40	1.19	1.24
36	1	3281	U	C2-O2	5.40	1.27	1.22
85	5	100	A	N7-C5	-5.40	1.36	1.39
85	5	1545	A	C5-C6	-5.40	1.36	1.41
85	5	2722	U	C2-N3	-5.40	1.33	1.37
85	5	3142	A	N7-C5	-5.40	1.36	1.39
37	7	52	G	N9-C8	-5.40	1.34	1.37
37	7	84	A	N1-C2	-5.40	1.29	1.34
37	7	89	G	N9-C8	-5.40	1.34	1.37
36	1	2629	U	N1-C6	-5.40	1.33	1.38
38	4	88	A	N3-C4	-5.40	1.31	1.34
38	4	109	A	N7-C5	-5.40	1.36	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	407	A	N7-C5	-5.40	1.36	1.39
85	5	1598	G	C5-C4	-5.40	1.34	1.38
85	5	1750	A	C5-C6	-5.40	1.36	1.41
85	5	2767	U	C2-N3	5.40	1.41	1.37
1	2	1093	G	C6-N1	-5.40	1.35	1.39
36	1	1498	A	C5-C4	-5.40	1.34	1.38
85	5	1319	G	C5-C4	-5.40	1.34	1.38
85	5	2385	G	C2-N3	-5.40	1.28	1.32
85	5	2395	G	C2-N3	-5.40	1.28	1.32
85	5	2519	A	N9-C8	5.40	1.42	1.37
36	1	1143	A	C6-N1	-5.40	1.31	1.35
36	1	2246	G	C2-N3	-5.40	1.28	1.32
36	1	2362	C	C4-C5	-5.40	1.38	1.43
1	2	1716	C	N1-C2	-5.39	1.34	1.40
36	1	1635	G	N9-C8	-5.39	1.34	1.37
36	1	1802	C	N1-C2	-5.39	1.34	1.40
36	1	3048	A	C6-N1	-5.39	1.31	1.35
38	4	102	U	C4-O4	5.39	1.27	1.23
44	L7	214	TRP	CB-CG	-5.39	1.40	1.50
80	6	569	C	N1-C6	-5.39	1.33	1.37
85	5	1586	G	N9-C8	-5.39	1.34	1.37
85	5	3205	G	N9-C8	-5.39	1.34	1.37
85	5	3308	C	C2-O2	-5.39	1.19	1.24
38	8	38	U	C2-O2	-5.39	1.17	1.22
36	1	57	A	C5-C6	-5.39	1.36	1.41
36	1	1101	G	N7-C5	-5.39	1.36	1.39
36	1	2244	A	N3-C4	-5.39	1.31	1.34
36	1	3306	U	C2-N3	-5.39	1.33	1.37
85	5	1345	G	N7-C5	5.39	1.42	1.39
85	5	1373	A	N3-C4	-5.39	1.31	1.34
85	5	1440	G	C5-C6	-5.39	1.36	1.42
85	5	2977	G	N9-C8	-5.39	1.34	1.37
40	L3	200	GLU	CG-CD	5.39	1.60	1.51
68	O2	119	VAL	CB-CG2	-5.39	1.41	1.52
71	O5	54	VAL	CB-CG2	-5.39	1.41	1.52
85	5	711	A	C6-N1	-5.39	1.31	1.35
85	5	724	U	C2-O2	-5.39	1.17	1.22
85	5	1075	A	N9-C8	-5.39	1.33	1.37
85	5	2607	G	N7-C5	-5.39	1.36	1.39
85	5	2942	C	N1-C6	-5.39	1.33	1.37
1	2	1008	A	N9-C4	-5.39	1.34	1.37
36	1	82	C	N1-C2	-5.39	1.34	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1383	G	C5-C6	-5.39	1.36	1.42
36	1	1460	A	N3-C4	-5.39	1.31	1.34
36	1	2213	A	C5-C4	-5.39	1.34	1.38
36	1	2223	A	N7-C5	-5.39	1.36	1.39
36	1	2742	C	N1-C6	-5.39	1.33	1.37
80	6	942	G	C5-C6	-5.39	1.36	1.42
85	5	215	G	C6-N1	-5.39	1.35	1.39
85	5	398	A	N3-C4	5.39	1.38	1.34
85	5	1487	G	N3-C4	-5.39	1.31	1.35
85	5	1497	C	C2-O2	-5.39	1.19	1.24
85	5	2420	C	N1-C2	-5.39	1.34	1.40
1	2	8	U	C4-C5	-5.39	1.38	1.43
36	1	2149	A	N3-C4	-5.39	1.31	1.34
80	6	1586	A	C6-N1	5.39	1.39	1.35
80	6	1744	A	C5-C4	-5.39	1.34	1.38
1	2	313	U	C2-N3	-5.39	1.33	1.37
1	2	1779	C	C2-N3	5.39	1.40	1.35
36	1	224	C	N1-C6	5.39	1.40	1.37
36	1	1026	A	C5-C6	5.39	1.45	1.41
36	1	1435	A	C8-N7	-5.39	1.27	1.31
36	1	1754	G	C5-C4	-5.39	1.34	1.38
36	1	1871	U	N1-C6	-5.39	1.33	1.38
36	1	2605	G	C2-N3	-5.39	1.28	1.32
36	1	2731	U	N3-C4	5.39	1.43	1.38
36	1	2806	U	N1-C2	-5.39	1.33	1.38
36	1	3111	U	C4-C5	-5.39	1.38	1.43
80	6	25	C	N3-C4	5.39	1.37	1.33
80	6	1145	U	N1-C2	-5.39	1.33	1.38
80	6	1296	A	N9-C8	-5.39	1.33	1.37
80	6	1623	C	N1-C6	-5.39	1.33	1.37
1	2	43	A	C6-N1	-5.38	1.31	1.35
36	1	300	G	N9-C8	-5.38	1.34	1.37
36	1	625	G	N1-C2	-5.38	1.33	1.37
36	1	714	G	N1-C2	-5.38	1.33	1.37
36	1	2387	A	C5-C4	-5.38	1.34	1.38
36	1	2850	G	N3-C4	-5.38	1.31	1.35
36	1	2963	C	C3'-C2'	-5.38	1.46	1.52
36	1	3067	C	N3-C4	-5.38	1.30	1.33
36	1	3264	G	N9-C8	-5.38	1.34	1.37
52	M6	8	VAL	CB-CG2	-5.38	1.41	1.52
80	6	332	U	C2-O2	-5.38	1.17	1.22
85	5	20	A	N9-C4	-5.38	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	373	A	N9-C8	-5.38	1.33	1.37
85	5	1515	A	C5-C4	-5.38	1.34	1.38
85	5	2134	G	N9-C8	-5.38	1.34	1.37
37	7	45	A	N1-C2	-5.38	1.29	1.34
1	2	43	A	N3-C4	-5.38	1.31	1.34
36	1	924	G	C6-N1	-5.38	1.35	1.39
36	1	2141	U	N1-C2	-5.38	1.33	1.38
36	1	2737	C	N1-C2	-5.38	1.34	1.40
38	4	8	C	N1-C2	-5.38	1.34	1.40
80	6	562	G	N3-C4	-5.38	1.31	1.35
85	5	2372	A	P-O5'	-5.38	1.54	1.59
85	5	2690	G	N9-C4	-5.38	1.33	1.38
38	8	52	A	N3-C4	-5.38	1.31	1.34
36	1	619	A	N1-C2	5.38	1.39	1.34
36	1	1801	U	C2-O2	-5.38	1.17	1.22
36	1	1814	A	C5-C4	5.38	1.42	1.38
36	1	2395	G	C2-N3	-5.38	1.28	1.32
36	1	2431	C	C2-N3	-5.38	1.31	1.35
36	1	2944	U	C4-C5	-5.38	1.38	1.43
85	5	143	G	N9-C4	-5.38	1.33	1.38
85	5	164	A	C6-N1	5.38	1.39	1.35
1	2	407	A	N3-C4	-5.38	1.31	1.34
36	1	1525	G	N3-C4	-5.38	1.31	1.35
36	1	2097	U	N1-C6	5.38	1.42	1.38
85	5	2172	A	C5-C4	-5.38	1.34	1.38
85	5	2413	A	C5-C6	-5.38	1.36	1.41
85	5	2538	U	C2-N3	5.38	1.41	1.37
1	2	994	G	C6-N1	5.38	1.43	1.39
36	1	351	A	C6-N1	-5.38	1.31	1.35
36	1	1543	G	C6-N1	5.38	1.43	1.39
85	5	99	A	N7-C5	-5.38	1.36	1.39
85	5	833	G	N3-C4	-5.38	1.31	1.35
85	5	979	U	C2-O2	5.38	1.27	1.22
85	5	1760	A	N9-C4	5.38	1.41	1.37
85	5	2939	G	P-O5'	-5.38	1.54	1.59
85	5	3374	U	N3-C4	-5.38	1.33	1.38
64	n8	52	TYR	CE2-CZ	-5.38	1.31	1.38
36	1	1362	G	C6-N1	-5.38	1.35	1.39
36	1	2965	U	N1-C6	-5.38	1.33	1.38
37	3	81	U	N1-C2	-5.38	1.33	1.38
40	L3	7	GLU	CG-CD	5.38	1.60	1.51
80	6	316	A	C6-N1	-5.38	1.31	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	1004	U	N3-C4	-5.38	1.33	1.38
80	6	1655	A	N9-C4	-5.38	1.34	1.37
85	5	441	U	N1-C2	5.38	1.43	1.38
85	5	620	U	C4-O4	5.38	1.27	1.23
85	5	706	A	C5-C4	-5.38	1.34	1.38
85	5	1455	U	N1-C2	5.38	1.43	1.38
85	5	2209	U	C4-O4	5.38	1.27	1.23
85	5	2299	A	N9-C8	-5.38	1.33	1.37
85	5	2731	U	N1-C6	-5.38	1.33	1.38
85	5	2854	U	C4-C5	-5.38	1.38	1.43
38	8	43	A	N9-C4	-5.38	1.34	1.37
53	m7	146	ILE	CB-CG2	-5.38	1.36	1.52
36	1	2147	A	N7-C5	-5.38	1.36	1.39
36	1	2320	A	C6-N1	-5.38	1.31	1.35
36	1	1462	A	N3-C4	-5.37	1.31	1.34
36	1	1936	A	N9-C4	-5.37	1.34	1.37
40	L3	352	GLU	CG-CD	5.37	1.60	1.51
80	6	1296	A	N3-C4	-5.37	1.31	1.34
85	5	1567	U	N1-C2	5.37	1.43	1.38
85	5	1604	G	N7-C5	5.37	1.42	1.39
1	2	309	C	N3-C4	-5.37	1.30	1.33
1	2	1285	U	N3-C4	-5.37	1.33	1.38
1	2	1638	A	C5-C4	-5.37	1.34	1.38
36	1	136	G	N7-C5	5.37	1.42	1.39
36	1	333	G	N9-C8	-5.37	1.34	1.37
36	1	409	A	C5-C4	-5.37	1.34	1.38
36	1	574	U	N3-C4	-5.37	1.33	1.38
36	1	924	G	P-O5'	-5.37	1.54	1.59
36	1	1120	A	C5-C4	-5.37	1.34	1.38
36	1	1159	A	C5-C4	-5.37	1.34	1.38
36	1	1469	C	N3-C4	-5.37	1.30	1.33
38	8	3	A	N1-C2	-5.37	1.29	1.34
36	1	1108	U	C2-O2	-5.37	1.17	1.22
36	1	2247	G	N9-C4	-5.37	1.33	1.38
36	1	2701	U	N1-C6	-5.37	1.33	1.38
36	1	3369	G	N1-C2	-5.37	1.33	1.37
80	6	537	G	C5-C4	-5.37	1.34	1.38
85	5	770	G	N9-C8	-5.37	1.34	1.37
85	5	2876	C	C4'-C3'	-5.37	1.47	1.52
41	14	50	TYR	CD2-CE2	-5.37	1.31	1.39
36	1	757	C	N1-C2	-5.37	1.34	1.40
36	1	1132	C	C2-O2	-5.37	1.19	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	1661	U	N1-C6	-5.37	1.33	1.38
85	5	13	A	N3-C4	-5.37	1.31	1.34
85	5	26	A	N9-C8	-5.37	1.33	1.37
85	5	249	U	C2-N3	5.37	1.41	1.37
85	5	1179	A	C6-N1	-5.37	1.31	1.35
85	5	3355	U	P-O5'	5.37	1.65	1.59
36	1	1459	C	C2-N3	-5.37	1.31	1.35
85	5	680	G	N9-C4	-5.37	1.33	1.38
1	2	245	U	C2-N3	-5.37	1.33	1.37
1	2	1265	U	C2-N3	-5.37	1.33	1.37
31	D9	39	CYS	CB-SG	-5.37	1.73	1.81
36	1	12	A	N9-C4	-5.37	1.34	1.37
36	1	662	U	C4-C5	-5.37	1.38	1.43
36	1	665	A	C4'-C3'	-5.37	1.47	1.52
36	1	2651	G	N7-C5	-5.37	1.36	1.39
38	4	96	A	C6-N6	-5.37	1.29	1.33
85	5	433	A	N9-C4	-5.37	1.34	1.37
85	5	517	G	N1-C2	-5.37	1.33	1.37
85	5	530	G	C6-O6	-5.37	1.19	1.24
85	5	1176	C	C2-N3	5.37	1.40	1.35
85	5	1475	A	N9-C8	-5.37	1.33	1.37
85	5	1864	A	C4'-C3'	-5.37	1.47	1.52
85	5	2198	A	C6-N1	-5.37	1.31	1.35
56	n0	103	VAL	CB-CG1	-5.37	1.41	1.52
36	1	44	U	C4-O4	-5.36	1.19	1.23
36	1	68	C	C2-N3	-5.36	1.31	1.35
36	1	283	G	N3-C4	-5.36	1.31	1.35
36	1	707	U	N3-C4	-5.36	1.33	1.38
36	1	780	A	C5-C6	-5.36	1.36	1.41
36	1	899	U	C2-O2	-5.36	1.17	1.22
36	1	1060	U	N1-C2	-5.36	1.33	1.38
36	1	2612	U	N1-C6	-5.36	1.33	1.38
38	4	105	A	N7-C5	-5.36	1.36	1.39
49	M3	113	VAL	CB-CG1	-5.36	1.41	1.52
85	5	374	A	C6-N6	-5.36	1.29	1.33
85	5	1251	A	P-OP2	5.36	1.58	1.49
85	5	2158	A	C5-C4	-5.36	1.34	1.38
85	5	2396	G	N7-C5	-5.36	1.36	1.39
85	5	2524	A	N9-C4	-5.36	1.34	1.37
85	5	3177	G	N9-C4	-5.36	1.33	1.38
85	5	3262	U	N1-C6	-5.36	1.33	1.38
38	8	103	G	C5-C6	-5.36	1.36	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	S6	122	GLU	CB-CG	5.36	1.62	1.52
36	1	710	A	C6-N1	-5.36	1.31	1.35
36	1	1883	A	N3-C4	-5.36	1.31	1.34
36	1	2772	C	N1-C2	5.36	1.45	1.40
85	5	333	G	N9-C4	-5.36	1.33	1.38
85	5	1828	A	C6-N1	-5.36	1.31	1.35
66	o0	69	TYR	CD1-CE1	5.36	1.47	1.39
36	1	685	G	C5-C4	-5.36	1.34	1.38
36	1	919	U	N1-C2	-5.36	1.33	1.38
80	6	591	A	C5-C4	-5.36	1.34	1.38
85	5	1152	G	C5-C6	-5.36	1.36	1.42
85	5	2389	C	C4-N4	-5.36	1.29	1.33
85	5	2924	U	N3-C4	-5.36	1.33	1.38
85	5	3195	U	C2-O2	5.36	1.27	1.22
36	1	203	G	C5-C4	-5.36	1.34	1.38
36	1	2880	U	N1-C6	-5.36	1.33	1.38
36	1	3011	A	C8-N7	-5.36	1.27	1.31
71	O5	100	VAL	CB-CG2	-5.36	1.41	1.52
80	6	989	U	C2-N3	5.36	1.41	1.37
80	6	998	A	N9-C4	-5.36	1.34	1.37
85	5	35	A	N7-C5	-5.36	1.36	1.39
1	2	691	C	N1-C6	5.36	1.40	1.37
36	1	37	U	C2-O2	-5.36	1.17	1.22
36	1	864	G	N9-C8	-5.36	1.34	1.37
36	1	1371	G	C1'-N9	-5.36	1.39	1.46
36	1	3266	G	N3-C4	-5.36	1.31	1.35
36	1	3297	U	N1-C2	-5.36	1.33	1.38
85	5	117	U	C2-O2	5.36	1.27	1.22
85	5	867	G	N3-C4	-5.36	1.31	1.35
85	5	1116	G	N1-C2	-5.36	1.33	1.37
85	5	1802	C	N1-C2	-5.36	1.34	1.40
85	5	2330	C	N3-C4	-5.36	1.30	1.33
37	7	54	U	C2-N3	-5.36	1.33	1.37
38	8	33	A	N9-C8	-5.36	1.33	1.37
69	o3	94	PHE	CD1-CE1	-5.36	1.28	1.39
1	2	353	A	C6-N1	-5.36	1.31	1.35
36	1	290	G	N3-C4	-5.36	1.31	1.35
36	1	516	A	N7-C5	-5.36	1.36	1.39
36	1	826	G	N3-C4	-5.36	1.31	1.35
36	1	885	U	N1-C6	-5.36	1.33	1.38
36	1	919	U	N3-C4	-5.36	1.33	1.38
36	1	1202	A	N3-C4	-5.36	1.31	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2133	U	N1-C6	-5.36	1.33	1.38
79	Q3	18	TYR	CE1-CZ	-5.36	1.31	1.38
85	5	685	G	N9-C4	-5.36	1.33	1.38
85	5	836	A	N9-C8	-5.36	1.33	1.37
85	5	1084	A	N9-C4	-5.36	1.34	1.37
85	5	1153	A	C6-N6	-5.36	1.29	1.33
85	5	1581	C	N1-C6	5.36	1.40	1.37
85	5	1668	G	N9-C8	-5.36	1.34	1.37
85	5	2989	U	N3-C4	-5.36	1.33	1.38
85	5	3332	U	C4-C5	-5.36	1.38	1.43
53	m7	51	VAL	CB-CG1	-5.36	1.41	1.52
36	1	713	U	N3-C4	-5.35	1.33	1.38
51	M5	150	TRP	CB-CG	-5.35	1.40	1.50
85	5	3095	U	C2-N3	-5.35	1.34	1.37
85	5	3213	A	C5-C4	-5.35	1.35	1.38
1	2	164	A	N3-C4	-5.35	1.31	1.34
1	2	910	C	N1-C2	-5.35	1.34	1.40
36	1	1454	A	N3-C4	-5.35	1.31	1.34
36	1	1914	G	C6-N1	-5.35	1.35	1.39
36	1	2652	U	N3-C4	-5.35	1.33	1.38
36	1	2844	C	N3-C4	5.35	1.37	1.33
36	1	3085	G	N3-C4	-5.35	1.31	1.35
80	6	364	G	N9-C4	-5.35	1.33	1.38
80	6	1169	G	N7-C5	-5.35	1.36	1.39
80	6	1660	A	N9-C4	-5.35	1.34	1.37
85	5	281	G	N3-C4	-5.35	1.31	1.35
85	5	1435	A	N9-C4	-5.35	1.34	1.37
85	5	1882	G	C5-C6	-5.35	1.36	1.42
54	m8	153	PHE	CB-CG	-5.35	1.42	1.51
75	O9	25	GLN	CG-CD	5.35	1.63	1.51
80	6	467	G	N1-C2	-5.35	1.33	1.37
85	5	1174	G	C5-C6	-5.35	1.36	1.42
36	1	407	A	C5-C4	-5.35	1.35	1.38
36	1	1481	A	N3-C4	-5.35	1.31	1.34
36	1	2863	G	N7-C5	-5.35	1.36	1.39
85	5	1192	C	C4-C5	5.35	1.47	1.43
85	5	2341	A	N9-C8	-5.35	1.33	1.37
85	5	2384	A	N7-C5	-5.35	1.36	1.39
85	5	2553	U	C2-O2	-5.35	1.17	1.22
1	2	938	A	N9-C4	-5.35	1.34	1.37
36	1	866	A	C5-C4	-5.35	1.35	1.38
36	1	901	G	C5-C6	-5.35	1.37	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1451	C	C4-C5	-5.35	1.38	1.43
36	1	2715	A	N1-C2	-5.35	1.29	1.34
36	1	3233	C	C2-N3	5.35	1.40	1.35
54	M8	172	PHE	CA-CB	-5.35	1.42	1.53
80	6	108	A	N3-C4	-5.35	1.31	1.34
85	5	2371	G	N9-C8	-5.35	1.34	1.37
85	5	3134	A	C6-N6	-5.35	1.29	1.33
69	o3	94	PHE	CD2-CE2	-5.35	1.28	1.39
36	1	748	U	C4-O4	-5.35	1.19	1.23
36	1	2308	C	N1-C6	-5.35	1.33	1.37
36	1	3206	C	C4-C5	-5.35	1.38	1.43
36	1	3239	G	C2-N3	-5.35	1.28	1.32
85	5	2938	G	C5-C6	-5.35	1.37	1.42
36	1	936	A	C2-N3	-5.34	1.28	1.33
36	1	2840	C	N1-C6	-5.34	1.33	1.37
36	1	3332	U	C5-C6	-5.34	1.29	1.34
37	3	95	A	C5-C6	-5.34	1.36	1.41
47	M0	8	CYS	CB-SG	-5.34	1.73	1.81
79	Q3	8	VAL	CB-CG1	-5.34	1.41	1.52
80	6	53	G	N9-C4	-5.34	1.33	1.38
85	5	270	U	C2-N3	5.34	1.41	1.37
85	5	424	G	C6-N1	5.34	1.43	1.39
36	1	677	A	C6-N6	-5.34	1.29	1.33
51	M5	202	TYR	CE1-CZ	-5.34	1.31	1.38
85	5	533	A	N3-C4	-5.34	1.31	1.34
85	5	2823	G	N7-C5	-5.34	1.36	1.39
85	5	3005	A	N9-C4	-5.34	1.34	1.37
1	2	93	A	N9-C8	-5.34	1.33	1.37
36	1	939	U	P-OP2	-5.34	1.39	1.49
36	1	2143	A	N3-C4	-5.34	1.31	1.34
47	M0	157	TYR	CD2-CE2	-5.34	1.31	1.39
68	O2	35	GLN	CG-CD	-5.34	1.38	1.51
85	5	883	A	C5-C6	-5.34	1.36	1.41
85	5	1085	A	N3-C4	-5.34	1.31	1.34
85	5	1195	A	N3-C4	-5.34	1.31	1.34
85	5	1377	G	N1-C2	-5.34	1.33	1.37
85	5	1517	G	N3-C4	-5.34	1.31	1.35
85	5	3238	G	N9-C8	5.34	1.41	1.37
36	1	1814	A	N7-C5	5.34	1.42	1.39
36	1	3107	U	N3-C4	-5.34	1.33	1.38
80	6	127	G	N7-C5	-5.34	1.36	1.39
80	6	1648	A	C5-C6	-5.34	1.36	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	64	G	N7-C5	-5.34	1.36	1.39
85	5	2700	G	C5-C4	-5.34	1.34	1.38
65	n9	28	LYS	CD-CE	5.34	1.64	1.51
36	1	101	G	C6-N1	-5.34	1.35	1.39
36	1	796	U	C4-C5	-5.34	1.38	1.43
36	1	2871	G	N1-C2	-5.34	1.33	1.37
80	6	413	U	N3-C4	-5.34	1.33	1.38
85	5	43	A	N9-C4	-5.34	1.34	1.37
85	5	72	C	C2-N3	-5.34	1.31	1.35
85	5	1578	C	N1-C6	5.34	1.40	1.37
85	5	2873	U	N1-C2	-5.34	1.33	1.38
85	5	3126	C	C2-N3	-5.34	1.31	1.35
36	1	1141	C	C4-C5	-5.34	1.38	1.43
36	1	1444	G	N9-C8	-5.34	1.34	1.37
36	1	1467	A	N9-C8	-5.34	1.33	1.37
36	1	1517	G	N9-C4	-5.34	1.33	1.38
36	1	1538	G	C6-N1	-5.34	1.35	1.39
36	1	1890	U	C4-C5	-5.34	1.38	1.43
36	1	2200	U	C2-O2	-5.34	1.17	1.22
40	L3	119	TYR	CD1-CE1	-5.34	1.31	1.39
42	L5	221	GLU	CG-CD	5.34	1.59	1.51
80	6	1667	A	C6-N1	-5.34	1.31	1.35
85	5	639	G	N9-C8	-5.34	1.34	1.37
85	5	2249	G	N3-C4	-5.34	1.31	1.35
85	5	2633	U	C2-N3	-5.34	1.34	1.37
85	5	2939	G	C2-N3	-5.34	1.28	1.32
1	2	72	A	N9-C4	5.33	1.41	1.37
36	1	1172	G	C2-N3	-5.33	1.28	1.32
36	1	1351	U	N1-C6	5.33	1.42	1.38
36	1	2818	U	C2-O2	-5.33	1.17	1.22
80	6	653	C	N1-C2	5.33	1.45	1.40
80	6	789	A	N3-C4	-5.33	1.31	1.34
80	6	796	A	C5-C6	-5.33	1.36	1.41
85	5	107	A	C6-N6	-5.33	1.29	1.33
85	5	272	G	C6-N1	-5.33	1.35	1.39
85	5	2367	A	C5-C4	-5.33	1.35	1.38
38	8	102	U	C2-N3	5.33	1.41	1.37
36	1	698	U	N1-C2	5.33	1.43	1.38
36	1	1373	A	N9-C8	-5.33	1.33	1.37
80	6	561	G	C6-N1	5.33	1.43	1.39
80	6	1011	G	N7-C5	-5.33	1.36	1.39
85	5	1939	G	N3-C4	-5.33	1.31	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2244	A	C6-N1	-5.33	1.31	1.35
85	5	2341	A	C6-N1	-5.33	1.31	1.35
85	5	3287	U	N1-C2	5.33	1.43	1.38
85	5	3369	G	N1-C2	-5.33	1.33	1.37
36	1	856	G	C5-C4	-5.33	1.34	1.38
36	1	1563	C	N1-C6	5.33	1.40	1.37
36	1	1840	U	C2-N3	-5.33	1.34	1.37
36	1	1845	G	C3'-C2'	-5.33	1.46	1.52
36	1	1952	G	N9-C8	5.33	1.41	1.37
37	3	84	A	C6-N6	-5.33	1.29	1.33
80	6	179	A	N7-C5	5.33	1.42	1.39
80	6	1230	A	N9-C4	5.33	1.41	1.37
85	5	1372	C	C2-N3	-5.33	1.31	1.35
85	5	1893	A	C5-C4	-5.33	1.35	1.38
85	5	2346	C	N1-C6	-5.33	1.33	1.37
85	5	2365	C	N1-C2	-5.33	1.34	1.40
85	5	2885	C	C2-O2	-5.33	1.19	1.24
36	1	404	G	N1-C2	-5.33	1.33	1.37
36	1	1680	G	N9-C4	-5.33	1.33	1.38
80	6	391	A	N7-C5	-5.33	1.36	1.39
85	5	1147	G	N3-C4	-5.33	1.31	1.35
85	5	2240	G	C6-N1	-5.33	1.35	1.39
53	m7	24	VAL	CB-CG2	-5.33	1.41	1.52
36	1	89	A	N3-C4	-5.33	1.31	1.34
36	1	1093	A	C6-N6	5.33	1.38	1.33
36	1	1431	G	C5-C4	-5.33	1.34	1.38
36	1	2147	A	C5-C4	-5.33	1.35	1.38
80	6	1757	G	C8-N7	-5.33	1.27	1.30
85	5	511	G	N3-C4	-5.33	1.31	1.35
85	5	1079	A	C5-C6	-5.33	1.36	1.41
85	5	3306	U	P-O5'	-5.33	1.54	1.59
42	l5	73	VAL	CB-CG2	-5.33	1.41	1.52
36	1	399	A	N7-C5	-5.33	1.36	1.39
36	1	1898	G	N3-C4	-5.33	1.31	1.35
36	1	2431	C	N3-C4	-5.33	1.30	1.33
85	5	1934	G	C6-N1	5.33	1.43	1.39
85	5	3044	G	N9-C8	-5.33	1.34	1.37
85	5	3153	U	C2-O2	5.33	1.27	1.22
37	7	97	A	N9-C8	-5.33	1.33	1.37
36	1	575	G	N3-C4	-5.33	1.31	1.35
36	1	645	A	N9-C8	-5.33	1.33	1.37
36	1	726	G	N9-C4	-5.33	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1073	U	N1-C6	-5.33	1.33	1.38
36	1	1494	U	C2-N3	-5.33	1.34	1.37
36	1	2199	G	N9-C8	-5.33	1.34	1.37
80	6	303	U	C2-N3	-5.33	1.34	1.37
80	6	1104	U	N1-C2	-5.33	1.33	1.38
85	5	201	A	N3-C4	-5.33	1.31	1.34
85	5	396	A	C5-C4	-5.33	1.35	1.38
85	5	1910	A	C5-C6	-5.33	1.36	1.41
85	5	3294	A	N9-C8	-5.33	1.33	1.37
37	7	114	U	C4-O4	5.33	1.27	1.23
1	2	1189	U	N1-C2	5.32	1.43	1.38
1	2	1723	A	N3-C4	-5.32	1.31	1.34
36	1	107	A	N9-C4	-5.32	1.34	1.37
36	1	214	G	C5-C4	-5.32	1.34	1.38
36	1	242	C	N3-C4	5.32	1.37	1.33
36	1	602	A	N7-C5	5.32	1.42	1.39
36	1	1321	G	C4'-C3'	-5.32	1.47	1.52
36	1	1369	A	N9-C8	-5.32	1.33	1.37
80	6	1582	U	N1-C6	-5.32	1.33	1.38
85	5	604	G	C5-C4	5.32	1.42	1.38
85	5	802	C	C4'-C3'	-5.32	1.47	1.52
85	5	1168	U	C2-N3	-5.32	1.34	1.37
85	5	2520	A	N7-C5	-5.32	1.36	1.39
85	5	3327	G	N1-C2	5.32	1.42	1.37
59	n3	75	PRO	CB-CG	-5.32	1.23	1.50
1	2	780	G	N1-C2	-5.32	1.33	1.37
36	1	2218	G	N3-C4	-5.32	1.31	1.35
80	6	889	U	C2-N3	-5.32	1.34	1.37
85	5	52	A	N3-C4	-5.32	1.31	1.34
85	5	540	U	C2-N3	5.32	1.41	1.37
85	5	600	G	C5-C6	-5.32	1.37	1.42
85	5	1085	A	P-O5'	-5.32	1.54	1.59
36	1	632	G	P-OP1	-5.32	1.40	1.49
36	1	2430	A	N7-C5	-5.32	1.36	1.39
36	1	3155	U	N3-C4	5.32	1.43	1.38
37	3	45	A	C6-N1	-5.32	1.31	1.35
56	N0	78	TRP	CE3-CZ3	-5.32	1.29	1.38
29	d7	37	CYS	CB-SG	5.32	1.91	1.82
85	5	870	G	C2-N3	-5.32	1.28	1.32
85	5	959	C	N3-C4	-5.32	1.30	1.33
85	5	1457	U	N1-C2	-5.32	1.33	1.38
85	5	2762	A	N9-C4	-5.32	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2	964	U	N1-C2	-5.32	1.33	1.38
36	1	656	A	C3'-C2'	-5.32	1.46	1.52
36	1	980	A	N7-C5	5.32	1.42	1.39
85	5	1473	G	N9-C4	-5.32	1.33	1.38
85	5	1540	U	C2-N3	-5.32	1.34	1.37
85	5	2387	A	O3'-P	-5.32	1.54	1.61
36	1	1342	C	N1-C2	-5.32	1.34	1.40
36	1	1854	C	C2-N3	-5.32	1.31	1.35
36	1	2193	U	N1-C6	-5.32	1.33	1.38
36	1	2610	G	N1-C2	-5.32	1.33	1.37
36	1	3369	G	C6-N1	-5.32	1.35	1.39
41	L4	90	PHE	CD2-CE2	-5.32	1.28	1.39
80	6	90	C	N1-C6	-5.32	1.33	1.37
85	5	433	A	N3-C4	-5.32	1.31	1.34
85	5	1913	A	C6-N1	-5.32	1.31	1.35
37	7	91	G	N9-C8	-5.32	1.34	1.37
1	2	632	U	C2-N3	-5.32	1.34	1.37
36	1	909	G	N9-C4	-5.32	1.33	1.38
36	1	937	G	N7-C5	-5.32	1.36	1.39
36	1	1337	A	C6-N1	-5.32	1.31	1.35
36	1	2610	G	C2-N2	-5.32	1.29	1.34
59	N3	8	GLY	N-CA	5.32	1.54	1.46
80	6	385	A	N7-C5	-5.32	1.36	1.39
80	6	1084	A	C5-C4	-5.32	1.35	1.38
85	5	1011	A	N7-C5	-5.32	1.36	1.39
85	5	1362	G	N3-C4	-5.32	1.31	1.35
85	5	2503	G	N7-C5	5.32	1.42	1.39
85	5	2967	A	N9-C8	-5.32	1.33	1.37
85	5	3026	G	N7-C5	-5.32	1.36	1.39
36	1	397	A	C6-N6	-5.31	1.29	1.33
36	1	428	A	N9-C4	-5.31	1.34	1.37
36	1	660	A	C5-C4	-5.31	1.35	1.38
36	1	1092	C	N3-C4	5.31	1.37	1.33
80	6	253	A	N9-C4	-5.31	1.34	1.37
80	6	429	G	N7-C5	-5.31	1.36	1.39
80	6	1648	A	C6-N1	-5.31	1.31	1.35
85	5	2297	U	P-O5'	-5.31	1.54	1.59
36	1	567	G	N7-C5	-5.31	1.36	1.39
36	1	1700	G	N3-C4	-5.31	1.31	1.35
36	1	2623	G	N3-C4	-5.31	1.31	1.35
36	1	3171	U	N1-C2	5.31	1.43	1.38
38	4	106	C	N1-C2	-5.31	1.34	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	347	G	N7-C5	-5.31	1.36	1.39
85	5	342	A	C6-N1	-5.31	1.31	1.35
85	5	875	G	O3'-P	-5.31	1.54	1.61
85	5	1446	A	N9-C4	5.31	1.41	1.37
85	5	2646	C	N1-C6	-5.31	1.33	1.37
38	8	96	A	N9-C4	-5.31	1.34	1.37
67	o1	12	TYR	CE2-CZ	-5.31	1.31	1.38
85	5	296	A	N7-C5	-5.31	1.36	1.39
85	5	2535	A	N3-C4	5.31	1.38	1.34
85	5	2930	A	C8-N7	-5.31	1.27	1.31
38	8	45	C	N3-C4	-5.31	1.30	1.33
1	2	470	A	N9-C4	-5.31	1.34	1.37
36	1	300	G	N9-C4	-5.31	1.33	1.38
36	1	1368	U	C4-C5	-5.31	1.38	1.43
36	1	1590	G	N3-C4	-5.31	1.31	1.35
36	1	2933	A	C6-N6	-5.31	1.29	1.33
80	6	318	U	N1-C6	-5.31	1.33	1.38
85	5	89	A	N9-C4	-5.31	1.34	1.37
85	5	501	A	N3-C4	-5.31	1.31	1.34
85	5	614	C	P-OP1	-5.31	1.40	1.49
85	5	793	C	N1-C6	-5.31	1.33	1.37
85	5	828	A	N9-C4	-5.31	1.34	1.37
85	5	1172	G	N3-C4	-5.31	1.31	1.35
85	5	1540	U	N1-C6	-5.31	1.33	1.38
85	5	3032	A	C5-C4	-5.31	1.35	1.38
1	2	254	A	N9-C4	-5.31	1.34	1.37
36	1	953	G	N1-C2	-5.31	1.33	1.37
36	1	2378	C	N1-C2	-5.31	1.34	1.40
36	1	2441	A	C5-C4	5.31	1.42	1.38
36	1	2660	G	C5-C4	-5.31	1.34	1.38
36	1	3219	G	C6-O6	5.31	1.28	1.24
80	6	579	A	C6-N1	5.31	1.39	1.35
85	5	79	U	C2-N3	-5.31	1.34	1.37
85	5	928	C	N1-C6	-5.31	1.33	1.37
85	5	1599	G	N9-C4	-5.31	1.33	1.38
85	5	2414	G	C5-C6	-5.31	1.37	1.42
85	5	2635	A	C5-C6	-5.31	1.36	1.41
85	5	3145	C	P-OP1	-5.31	1.40	1.49
37	7	8	G	N3-C4	-5.31	1.31	1.35
37	7	88	G	C4'-C3'	-5.31	1.47	1.52
1	2	390	G	C5-C6	-5.31	1.37	1.42
36	1	911	C	C4-C5	-5.31	1.38	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	377	A	N9-C4	5.31	1.41	1.37
85	5	417	A	N7-C5	-5.31	1.36	1.39
85	5	2296	A	N1-C2	-5.31	1.29	1.34
36	1	1655	G	C8-N7	-5.30	1.27	1.30
36	1	2390	A	C6-N6	-5.30	1.29	1.33
36	1	2976	A	N9-C8	-5.30	1.33	1.37
80	6	1748	G	C6-O6	5.30	1.28	1.24
85	5	307	A	N9-C4	-5.30	1.34	1.37
85	5	1677	G	C6-N1	-5.30	1.35	1.39
85	5	2204	C	N3-C4	-5.30	1.30	1.33
36	1	2877	G	C6-N1	-5.30	1.35	1.39
36	1	2911	A	C6-N6	-5.30	1.29	1.33
38	4	31	G	C2-N3	-5.30	1.28	1.32
80	6	761	G	N1-C2	-5.30	1.33	1.37
85	5	1154	A	C6-N6	5.30	1.38	1.33
85	5	2616	C	N1-C6	-5.30	1.33	1.37
85	5	2919	A	C5-C4	-5.30	1.35	1.38
42	15	45	ASN	CB-CG	-5.30	1.38	1.51
1	2	540	G	N3-C4	5.30	1.39	1.35
36	1	405	U	C4-O4	-5.30	1.19	1.23
36	1	2678	A	C6-N1	-5.30	1.31	1.35
38	4	140	G	N7-C5	-5.30	1.36	1.39
62	N6	88	GLU	CB-CG	5.30	1.62	1.52
80	6	341	A	N3-C4	-5.30	1.31	1.34
85	5	432	G	N3-C4	-5.30	1.31	1.35
85	5	585	A	N9-C8	-5.30	1.33	1.37
85	5	883	A	N7-C5	-5.30	1.36	1.39
85	5	1085	A	C6-N1	-5.30	1.31	1.35
85	5	1418	A	C5-C6	-5.30	1.36	1.41
85	5	1476	G	N7-C5	-5.30	1.36	1.39
85	5	1726	C	N1-C6	-5.30	1.33	1.37
48	m1	157	GLU	CG-CD	5.30	1.59	1.51
1	2	119	A	N9-C4	-5.30	1.34	1.37
36	1	301	G	N3-C4	-5.30	1.31	1.35
36	1	2522	G	C8-N7	5.30	1.34	1.30
36	1	3002	C	N3-C4	-5.30	1.30	1.33
36	1	3225	C	N1-C6	-5.30	1.33	1.37
80	6	165	G	N7-C5	-5.30	1.36	1.39
85	5	327	A	C5-C6	-5.30	1.36	1.41
85	5	2135	U	N1-C6	-5.30	1.33	1.38
38	8	23	U	N1-C2	-5.30	1.33	1.38
79	q3	26	VAL	CB-CG2	-5.30	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	171	G	C6-N1	5.30	1.43	1.39
36	1	1598	G	C6-N1	-5.30	1.35	1.39
85	5	2939	G	N3-C4	-5.30	1.31	1.35
36	1	269	G	C5-C4	-5.30	1.34	1.38
36	1	300	G	C6-N1	-5.30	1.35	1.39
36	1	1485	G	C6-N1	5.30	1.43	1.39
36	1	2758	A	C5-C4	-5.30	1.35	1.38
36	1	2875	U	C4-C5	-5.30	1.38	1.43
36	1	2932	U	N3-C4	-5.30	1.33	1.38
36	1	3219	G	N3-C4	-5.30	1.31	1.35
56	N0	79	VAL	CB-CG2	-5.30	1.41	1.52
80	6	1398	U	N1-C2	5.30	1.43	1.38
85	5	317	A	C5-C6	-5.30	1.36	1.41
85	5	976	U	N3-C4	-5.30	1.33	1.38
85	5	1139	G	C6-N1	-5.30	1.35	1.39
85	5	1744	G	N7-C5	-5.30	1.36	1.39
85	5	1907	C	C4-C5	-5.30	1.38	1.43
85	5	2124	G	C6-N1	5.30	1.43	1.39
85	5	217	U	N1-C2	-5.29	1.33	1.38
85	5	1463	U	C2-N3	-5.29	1.34	1.37
85	5	1519	G	N7-C5	-5.29	1.36	1.39
85	5	2647	A	O3'-P	-5.29	1.54	1.61
85	5	2904	U	C2-N3	-5.29	1.34	1.37
85	5	3045	G	N9-C8	-5.29	1.34	1.37
85	5	3100	U	C4-C5	-5.29	1.38	1.43
37	7	102	A	N3-C4	-5.29	1.31	1.34
1	2	1562	U	N1-C6	-5.29	1.33	1.38
36	1	570	A	C5-C6	-5.29	1.36	1.41
36	1	2824	G	C5-C6	-5.29	1.37	1.42
85	5	106	A	C5-C4	-5.29	1.35	1.38
85	5	170	G	C6-O6	5.29	1.28	1.24
85	5	318	A	N3-C4	-5.29	1.31	1.34
85	5	642	U	N1-C2	-5.29	1.33	1.38
85	5	1111	U	C4-O4	-5.29	1.19	1.23
85	5	2367	A	C5-C6	-5.29	1.36	1.41
85	5	2601	A	N7-C5	-5.29	1.36	1.39
85	5	2796	G	N1-C2	-5.29	1.33	1.37
85	5	3139	A	C5-C4	-5.29	1.35	1.38
85	5	3298	C	N1-C6	-5.29	1.33	1.37
1	2	389	G	C6-N1	-5.29	1.35	1.39
1	2	1567	G	C6-N1	-5.29	1.35	1.39
1	2	1593	G	C6-N1	-5.29	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2661	G	C6-N1	-5.29	1.35	1.39
36	1	3367	C	N1-C6	-5.29	1.33	1.37
80	6	100	A	N9-C8	-5.29	1.33	1.37
80	6	616	G	N9-C8	-5.29	1.34	1.37
80	6	1673	G	C6-N1	5.29	1.43	1.39
85	5	980	A	N9-C4	5.29	1.41	1.37
85	5	1429	G	N9-C8	-5.29	1.34	1.37
85	5	3371	G	C8-N7	-5.29	1.27	1.30
36	1	1693	C	N1-C6	-5.29	1.33	1.37
80	6	599	A	C6-N1	-5.29	1.31	1.35
85	5	340	C	C4-C5	-5.29	1.38	1.43
85	5	1182	A	N3-C4	-5.29	1.31	1.34
85	5	2647	A	C6-N1	-5.29	1.31	1.35
85	5	2802	A	N7-C5	-5.29	1.36	1.39
36	1	366	A	N9-C8	-5.29	1.33	1.37
36	1	3117	C	N3-C4	5.29	1.37	1.33
36	1	3326	G	N9-C8	-5.29	1.34	1.37
50	M4	138	ALA	CA-CB	5.29	1.63	1.52
85	5	885	U	C2-O2	-5.29	1.17	1.22
85	5	2411	U	N3-C4	-5.29	1.33	1.38
85	5	2800	G	N1-C2	-5.29	1.33	1.37
36	1	1060	U	C4-O4	-5.29	1.19	1.23
36	1	1514	G	N9-C4	-5.29	1.33	1.38
80	6	73	U	C2-N3	5.29	1.41	1.37
37	7	94	C	N1-C6	-5.29	1.33	1.37
1	2	390	G	N7-C5	-5.29	1.36	1.39
36	1	665	A	N9-C4	-5.29	1.34	1.37
36	1	1441	G	C2-N3	-5.29	1.28	1.32
36	1	1923	C	N3-C4	-5.29	1.30	1.33
36	1	2871	G	C6-N1	-5.29	1.35	1.39
36	1	3101	G	C5-C4	-5.29	1.34	1.38
36	1	3365	U	C2-O2	-5.29	1.17	1.22
69	O3	53	TYR	CE2-CZ	-5.29	1.31	1.38
85	5	277	G	N3-C4	-5.29	1.31	1.35
85	5	846	A	C6-N1	-5.29	1.31	1.35
85	5	954	U	N1-C2	5.29	1.43	1.38
85	5	1136	A	C5-C6	-5.29	1.36	1.41
85	5	1144	U	N1-C6	-5.29	1.33	1.38
85	5	2723	U	N1-C2	-5.29	1.33	1.38
85	5	3199	G	N3-C4	-5.29	1.31	1.35
36	1	110	G	N9-C4	-5.28	1.33	1.38
36	1	1300	G	N1-C2	-5.28	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2725	U	C2-N3	-5.28	1.34	1.37
38	4	98	U	N1-C6	-5.28	1.33	1.38
80	6	152	U	C2-N3	-5.28	1.34	1.37
80	6	540	G	N9-C8	-5.28	1.34	1.37
85	5	1005	G	N7-C5	-5.28	1.36	1.39
85	5	1789	G	C5-C4	-5.28	1.34	1.38
85	5	2895	G	C2-N2	-5.28	1.29	1.34
37	7	86	U	N1-C6	-5.28	1.33	1.38
36	1	77	A	N7-C5	-5.28	1.36	1.39
36	1	2827	U	C2-N3	-5.28	1.34	1.37
85	5	2325	G	C6-N1	-5.28	1.35	1.39
1	2	976	A	C6-N1	-5.28	1.31	1.35
36	1	885	U	C4'-C3'	-5.28	1.47	1.52
36	1	929	A	N3-C4	-5.28	1.31	1.34
36	1	1538	G	C3'-C2'	-5.28	1.47	1.52
36	1	2791	G	C2-N3	-5.28	1.28	1.32
37	3	49	G	N7-C5	5.28	1.42	1.39
47	M0	9	TYR	CE1-CZ	-5.28	1.31	1.38
80	6	567	A	N3-C4	-5.28	1.31	1.34
80	6	632	U	C2-N3	-5.28	1.34	1.37
85	5	2142	A	C5-C6	5.28	1.45	1.41
85	5	2163	C	N3-C4	-5.28	1.30	1.33
36	1	32	U	C2-O2	-5.28	1.17	1.22
80	6	1439	C	N1-C6	5.28	1.40	1.37
37	7	79	A	C5-C6	-5.28	1.36	1.41
1	2	1113	G	C6-N1	-5.28	1.35	1.39
36	1	1027	A	C6-N1	5.28	1.39	1.35
36	1	1284	C	P-O5'	5.28	1.65	1.59
36	1	1491	A	N7-C5	-5.28	1.36	1.39
36	1	1736	G	C6-N1	-5.28	1.35	1.39
36	1	1928	G	C5-C4	-5.28	1.34	1.38
36	1	2288	G	N3-C4	-5.28	1.31	1.35
36	1	2382	G	C5-C4	-5.28	1.34	1.38
85	5	386	A	N3-C4	-5.28	1.31	1.34
85	5	557	A	N9-C4	-5.28	1.34	1.37
85	5	681	U	C4-O4	5.28	1.27	1.23
85	5	926	A	C5-C6	-5.28	1.36	1.41
85	5	2676	A	N7-C5	-5.28	1.36	1.39
85	5	2948	C	N1-C2	-5.28	1.34	1.40
85	5	2962	U	C4-C5	-5.28	1.38	1.43
1	2	1538	A	N7-C5	-5.28	1.36	1.39
36	1	524	U	N3-C4	-5.28	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1168	U	N3-C4	-5.28	1.33	1.38
36	1	1325	U	N1-C2	-5.28	1.33	1.38
36	1	3174	A	N3-C4	-5.28	1.31	1.34
37	3	87	G	N7-C5	-5.28	1.36	1.39
40	L3	255	TRP	CE2-CZ2	-5.28	1.30	1.39
85	5	1457	U	C2-O2	-5.28	1.17	1.22
85	5	1673	G	N1-C2	-5.28	1.33	1.37
85	5	1831	U	C4-O4	5.28	1.27	1.23
85	5	2403	G	N9-C8	-5.28	1.34	1.37
85	5	3086	A	N9-C8	-5.28	1.33	1.37
85	5	3238	G	N7-C5	5.28	1.42	1.39
57	n1	36	VAL	CB-CG2	-5.28	1.41	1.52
36	1	1375	G	N9-C4	-5.27	1.33	1.38
36	1	2691	A	N9-C8	-5.27	1.33	1.37
36	1	2902	A	N9-C8	-5.27	1.33	1.37
85	5	909	G	N1-C2	-5.27	1.33	1.37
36	1	425	G	N9-C4	-5.27	1.33	1.38
36	1	1734	G	N3-C4	-5.27	1.31	1.35
36	1	1888	U	C4-O4	-5.27	1.19	1.23
36	1	2700	G	N7-C5	-5.27	1.36	1.39
36	1	3349	C	C2-N3	5.27	1.40	1.35
38	4	105	A	N9-C4	5.27	1.41	1.37
85	5	672	A	C6-N6	-5.27	1.29	1.33
85	5	878	G	N7-C5	-5.27	1.36	1.39
85	5	1211	U	C4-O4	-5.27	1.19	1.23
85	5	3097	C	N1-C6	-5.27	1.33	1.37
43	l6	61	ASN	CB-CG	-5.27	1.39	1.51
36	1	3337	G	N7-C5	-5.27	1.36	1.39
38	4	20	U	N1-C6	-5.27	1.33	1.38
80	6	1005	A	N9-C4	-5.27	1.34	1.37
85	5	315	C	N3-C4	-5.27	1.30	1.33
85	5	939	U	N1-C6	-5.27	1.33	1.38
85	5	2506	U	C2-O2	5.27	1.27	1.22
36	1	142	C	C4'-C3'	-5.27	1.47	1.52
36	1	172	G	N3-C4	5.27	1.39	1.35
36	1	2345	A	N7-C5	-5.27	1.36	1.39
85	5	2422	C	N3-C4	-5.27	1.30	1.33
85	5	3017	A	N9-C8	-5.27	1.33	1.37
85	5	3120	C	C4-C5	-5.27	1.38	1.43
53	m7	24	VAL	CB-CG1	-5.27	1.41	1.52
36	1	1152	G	N9-C4	-5.27	1.33	1.38
38	4	33	A	N9-C8	-5.27	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
61	N5	114	VAL	CB-CG1	-5.27	1.41	1.52
80	6	368	U	C2-N3	-5.27	1.34	1.37
85	5	530	G	N7-C5	-5.27	1.36	1.39
85	5	544	C	N1-C2	5.27	1.45	1.40
85	5	2144	A	N3-C4	5.27	1.38	1.34
85	5	2640	A	O3'-P	-5.27	1.54	1.61
85	5	2835	U	C4-C5	-5.27	1.38	1.43
85	5	2933	A	C6-N6	-5.27	1.29	1.33
85	5	2985	C	C2-O2	-5.27	1.19	1.24
37	7	88	G	C2-N2	-5.27	1.29	1.34
36	1	746	A	C5-C4	-5.27	1.35	1.38
36	1	1593	A	N9-C8	-5.27	1.33	1.37
36	1	2369	G	C5-C6	5.27	1.47	1.42
36	1	3111	U	C2-N3	-5.27	1.34	1.37
80	6	1715	G	N3-C4	5.27	1.39	1.35
85	5	61	A	N9-C8	-5.27	1.33	1.37
38	8	114	G	C6-O6	5.27	1.28	1.24
1	2	1593	G	N9-C8	-5.26	1.34	1.37
36	1	370	U	C2-O2	-5.26	1.17	1.22
36	1	409	A	N3-C4	-5.26	1.31	1.34
36	1	1057	A	C5-C4	-5.26	1.35	1.38
36	1	2659	G	N9-C4	-5.26	1.33	1.38
80	6	926	A	C5-C6	-5.26	1.36	1.41
85	5	1061	A	C6-N1	-5.26	1.31	1.35
85	5	2831	G	C2-N2	-5.26	1.29	1.34
85	5	2846	U	P-O5'	5.26	1.65	1.59
86	l8	29	SER	CA-CB	-5.26	1.45	1.52
38	4	53	A	N9-C8	-5.26	1.33	1.37
85	5	863	C	C5-C6	-5.26	1.30	1.34
85	5	1322	U	N1-C2	-5.26	1.33	1.38
50	m4	36	VAL	CB-CG2	-5.26	1.41	1.52
36	1	54	C	C4-N4	-5.26	1.29	1.33
36	1	2666	C	N1-C2	-5.26	1.34	1.40
36	1	2717	U	C5-C6	-5.26	1.29	1.34
36	1	2721	A	N9-C4	-5.26	1.34	1.37
80	6	465	G	N9-C4	-5.26	1.33	1.38
80	6	1041	G	N7-C5	-5.26	1.36	1.39
80	6	1650	U	C4-C5	-5.26	1.38	1.43
80	6	1662	G	N9-C8	-5.26	1.34	1.37
85	5	689	U	N3-C4	-5.26	1.33	1.38
85	5	1395	G	C6-O6	-5.26	1.19	1.24
85	5	2389	C	C4-C5	-5.26	1.38	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	639	G	N7-C5	-5.26	1.36	1.39
36	1	1855	U	N3-C4	-5.26	1.33	1.38
36	1	2549	G	C5-C6	5.26	1.47	1.42
37	3	24	A	N7-C5	-5.26	1.36	1.39
80	6	1748	G	N1-C2	5.26	1.42	1.37
85	5	544	C	N1-C6	5.26	1.40	1.37
85	5	699	A	C5-C6	-5.26	1.36	1.41
85	5	983	A	C6-N1	-5.26	1.31	1.35
85	5	1118	C	C3'-C2'	-5.26	1.47	1.52
1	2	370	A	N9-C4	5.26	1.41	1.37
36	1	1850	A	C5-C6	-5.26	1.36	1.41
36	1	2635	A	N9-C4	5.26	1.41	1.37
85	5	1079	A	N9-C4	-5.26	1.34	1.37
36	1	376	G	N9-C8	-5.26	1.34	1.37
36	1	1300	G	P-OP1	-5.26	1.40	1.49
36	1	2139	A	N3-C4	-5.26	1.31	1.34
36	1	2995	A	N3-C4	-5.26	1.31	1.34
80	6	794	U	C2-O2	5.26	1.27	1.22
85	5	1179	A	C5-C4	-5.26	1.35	1.38
49	m3	118	GLU	CG-CD	5.26	1.59	1.51
1	2	1006	A	N9-C4	-5.25	1.34	1.37
36	1	294	U	N1-C2	-5.25	1.33	1.38
85	5	9	U	N1-C2	-5.25	1.33	1.38
85	5	822	G	N7-C5	-5.25	1.36	1.39
85	5	1142	G	C5-C4	-5.25	1.34	1.38
85	5	1382	G	N9-C4	-5.25	1.33	1.38
85	5	2933	A	N9-C4	-5.25	1.34	1.37
85	5	2990	G	P-O5'	-5.25	1.54	1.59
85	5	3066	U	N3-C4	-5.25	1.33	1.38
85	5	3267	A	C5-C4	-5.25	1.35	1.38
37	7	14	U	N1-C6	-5.25	1.33	1.38
36	1	2608	G	C5-C6	-5.25	1.37	1.42
85	5	914	A	C5-C4	-5.25	1.35	1.38
85	5	1433	A	N3-C4	-5.25	1.31	1.34
85	5	1894	U	C2-N3	-5.25	1.34	1.37
43	l6	52	VAL	CB-CG1	-5.25	1.41	1.52
69	o3	8	TYR	CE2-CZ	-5.25	1.31	1.38
1	2	22	A	N9-C4	-5.25	1.34	1.37
1	2	1065	C	N1-C2	5.25	1.45	1.40
36	1	165	A	N9-C8	5.25	1.42	1.37
36	1	655	C	N3-C4	-5.25	1.30	1.33
36	1	1798	A	C5-C6	-5.25	1.36	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2161	G	C5-C6	-5.25	1.37	1.42
36	1	2412	G	C5-C4	-5.25	1.34	1.38
38	4	139	U	N1-C6	-5.25	1.33	1.38
85	5	97	U	C4-O4	5.25	1.27	1.23
85	5	220	G	N1-C2	-5.25	1.33	1.37
85	5	2733	A	C8-N7	-5.25	1.27	1.31
85	5	3157	U	N1-C6	5.25	1.42	1.38
36	1	661	G	P-OP2	-5.25	1.40	1.49
85	5	2194	G	C6-N1	-5.25	1.35	1.39
59	n3	137	VAL	CB-CG1	-5.25	1.41	1.52
1	2	1775	G	N3-C4	-5.25	1.31	1.35
36	1	970	A	C6-N6	-5.25	1.29	1.33
36	1	1305	U	C2-N3	-5.25	1.34	1.37
36	1	1695	U	C2-N3	-5.25	1.34	1.37
36	1	1915	A	N9-C4	-5.25	1.34	1.37
36	1	2938	G	C5-C6	-5.25	1.37	1.42
36	1	3169	U	N1-C2	5.25	1.43	1.38
37	3	102	A	N3-C4	-5.25	1.31	1.34
41	L4	52	VAL	CB-CG2	-5.25	1.41	1.52
80	6	471	A	N9-C4	-5.25	1.34	1.37
80	6	865	A	C6-N1	-5.25	1.31	1.35
80	6	1160	A	P-OP2	5.25	1.57	1.49
80	6	1698	G	N3-C4	5.25	1.39	1.35
85	5	237	G	N1-C2	5.25	1.42	1.37
85	5	912	G	C8-N7	-5.25	1.27	1.30
85	5	1172	G	N1-C2	-5.25	1.33	1.37
85	5	3136	G	N1-C2	-5.25	1.33	1.37
56	n0	134	ASP	CB-CG	-5.25	1.40	1.51
1	2	412	A	C5-C4	5.25	1.42	1.38
36	1	66	A	N3-C4	-5.25	1.31	1.34
36	1	324	A	N7-C5	-5.25	1.36	1.39
36	1	952	A	C5-C6	-5.25	1.36	1.41
36	1	1354	G	N9-C8	5.25	1.41	1.37
36	1	1394	A	N9-C4	-5.25	1.34	1.37
36	1	1443	G	N9-C4	-5.25	1.33	1.38
36	1	1536	G	C6-O6	-5.25	1.19	1.24
36	1	3347	A	C6-N1	5.25	1.39	1.35
37	3	92	A	N9-C4	-5.25	1.34	1.37
38	4	56	G	N3-C4	-5.25	1.31	1.35
85	5	106	A	C5-C6	-5.25	1.36	1.41
85	5	1128	U	N1-C6	-5.25	1.33	1.38
85	5	1190	A	N9-C8	-5.25	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1372	C	N1-C2	-5.25	1.34	1.40
85	5	2769	A	C5-C6	5.25	1.45	1.41
67	o1	64	VAL	CB-CG2	-5.25	1.41	1.52
36	1	250	U	C4-O4	5.25	1.27	1.23
36	1	1418	A	N7-C5	-5.25	1.36	1.39
36	1	1801	U	N3-C4	-5.25	1.33	1.38
36	1	2379	U	C5-C6	-5.25	1.29	1.34
38	4	149	A	N9-C4	-5.25	1.34	1.37
85	5	1871	U	C2-O2	-5.25	1.17	1.22
85	5	2507	C	N3-C4	5.25	1.37	1.33
38	8	134	G	C8-N7	-5.25	1.27	1.30
36	1	361	A	C5-C6	-5.24	1.36	1.41
36	1	1098	A	N3-C4	-5.24	1.31	1.34
36	1	1327	C	N1-C2	-5.24	1.34	1.40
36	1	1406	A	C5-C6	-5.24	1.36	1.41
36	1	2693	C	N1-C2	-5.24	1.34	1.40
38	4	58	G	N1-C2	-5.24	1.33	1.37
85	5	165	A	N3-C4	5.24	1.38	1.34
85	5	822	G	N9-C8	-5.24	1.34	1.37
85	5	1342	C	O3'-P	-5.24	1.54	1.61
85	5	1582	C	C2-N3	5.24	1.40	1.35
85	5	2809	C	P-OP2	-5.24	1.40	1.49
37	7	78	U	N1-C6	-5.24	1.33	1.38
38	8	33	A	N7-C5	-5.24	1.36	1.39
36	1	951	A	C5-C6	-5.24	1.36	1.41
36	1	980	A	C5-C6	5.24	1.45	1.41
85	5	2640	A	C5-C6	-5.24	1.36	1.41
85	5	2708	C	C4-C5	-5.24	1.38	1.43
85	5	3107	U	N1-C6	-5.24	1.33	1.38
85	5	3209	A	C5-C4	5.24	1.42	1.38
85	5	3387	U	N1-C2	-5.24	1.33	1.38
1	2	1010	A	N9-C4	-5.24	1.34	1.37
1	2	1486	A	N7-C5	-5.24	1.36	1.39
36	1	2178	A	N9-C8	-5.24	1.33	1.37
36	1	2383	C	N3-C4	-5.24	1.30	1.33
40	L3	233	TRP	CB-CG	-5.24	1.40	1.50
85	5	567	G	N3-C4	-5.24	1.31	1.35
85	5	2315	G	N7-C5	-5.24	1.36	1.39
44	17	133	TYR	CE2-CZ	-5.24	1.31	1.38
1	2	975	A	N9-C8	5.24	1.42	1.37
36	1	784	A	N9-C8	-5.24	1.33	1.37
36	1	1493	G	C2-N2	-5.24	1.29	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2113	A	C6-N1	-5.24	1.31	1.35
36	1	2247	G	N9-C8	-5.24	1.34	1.37
80	6	625	C	C4-C5	-5.24	1.38	1.43
85	5	560	G	C5-C6	-5.24	1.37	1.42
85	5	588	G	C5-C4	-5.24	1.34	1.38
85	5	1143	A	C8-N7	-5.24	1.27	1.31
85	5	1915	A	N7-C5	-5.24	1.36	1.39
1	2	1469	G	C6-N1	-5.24	1.35	1.39
36	1	676	G	N1-C2	-5.24	1.33	1.37
36	1	1083	G	C5-C4	-5.24	1.34	1.38
85	5	1499	C	N1-C2	-5.24	1.34	1.40
85	5	3361	G	C6-N1	5.24	1.43	1.39
1	2	1096	A	C5-C4	-5.24	1.35	1.38
36	1	1351	U	C4-O4	5.24	1.27	1.23
36	1	1867	A	N9-C8	-5.24	1.33	1.37
36	1	1874	A	C6-N1	-5.24	1.31	1.35
36	1	3320	A	N7-C5	-5.24	1.36	1.39
80	6	103	A	N3-C4	-5.24	1.31	1.34
85	5	1343	A	C5-C6	-5.24	1.36	1.41
85	5	1837	U	N1-C6	-5.24	1.33	1.38
85	5	2648	G	C6-N1	-5.24	1.35	1.39
36	1	1130	A	N9-C4	-5.23	1.34	1.37
36	1	2888	U	N1-C2	-5.23	1.33	1.38
36	1	3079	U	N1-C2	-5.23	1.33	1.38
80	6	11	A	C5-C6	5.23	1.45	1.41
85	5	2523	A	N7-C5	5.23	1.42	1.39
1	2	511	A	N9-C4	5.23	1.41	1.37
1	2	730	C	N1-C6	-5.23	1.34	1.37
1	2	1110	G	N9-C8	-5.23	1.34	1.37
10	S8	179	CYS	CB-SG	-5.23	1.73	1.81
36	1	229	G	N9-C8	5.23	1.41	1.37
36	1	964	G	C2-N3	-5.23	1.28	1.32
36	1	1071	U	C4-O4	5.23	1.27	1.23
36	1	1336	U	C2-N3	-5.23	1.34	1.37
36	1	2409	G	C8-N7	-5.23	1.27	1.30
36	1	2722	U	C4-C5	-5.23	1.38	1.43
41	L4	267	VAL	CB-CG2	-5.23	1.41	1.52
85	5	1780	G	N3-C4	-5.23	1.31	1.35
85	5	1884	A	C4'-C3'	-5.23	1.47	1.52
85	5	1891	A	N9-C4	-5.23	1.34	1.37
85	5	1894	U	N1-C2	-5.23	1.33	1.38
85	5	3069	G	C6-N1	-5.23	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2	331	A	N7-C5	-5.23	1.36	1.39
36	1	403	C	N1-C2	-5.23	1.34	1.40
36	1	696	C	N3-C4	-5.23	1.30	1.33
36	1	807	A	N9-C8	-5.23	1.33	1.37
36	1	2326	A	C2-N3	-5.23	1.28	1.33
36	1	2650	U	N1-C6	-5.23	1.33	1.38
36	1	2733	A	N9-C8	-5.23	1.33	1.37
36	1	2818	U	C2-N3	-5.23	1.34	1.37
85	5	1640	G	C6-N1	-5.23	1.35	1.39
65	n9	23	LYS	CD-CE	5.23	1.64	1.51
36	1	1545	A	N9-C4	5.23	1.41	1.37
36	1	2141	U	N3-C4	-5.23	1.33	1.38
85	5	874	U	C2-N3	-5.23	1.34	1.37
85	5	1880	U	N1-C6	-5.23	1.33	1.38
85	5	3296	A	N9-C8	-5.23	1.33	1.37
36	1	694	C	N1-C2	-5.23	1.34	1.40
36	1	1205	A	N9-C4	-5.23	1.34	1.37
36	1	1380	G	C2-N3	-5.23	1.28	1.32
80	6	930	A	N3-C4	-5.23	1.31	1.34
80	6	1738	U	C2-O2	-5.23	1.17	1.22
85	5	2639	G	N9-C8	-5.23	1.34	1.37
85	5	2806	U	N1-C2	-5.23	1.33	1.38
36	1	340	C	N1-C6	-5.23	1.34	1.37
36	1	2381	G	N9-C8	-5.23	1.34	1.37
36	1	3127	A	N9-C4	-5.23	1.34	1.37
41	14	274	TYR	CB-CG	-5.23	1.43	1.51
1	2	1628	G	N3-C4	-5.22	1.31	1.35
36	1	547	G	N9-C8	5.22	1.41	1.37
36	1	1406	A	C6-N6	-5.22	1.29	1.33
36	1	1795	U	N1-C2	-5.22	1.33	1.38
36	1	2413	A	C5-C4	-5.22	1.35	1.38
36	1	3183	A	N3-C4	-5.22	1.31	1.34
85	5	709	A	N7-C5	-5.22	1.36	1.39
85	5	2184	U	N1-C2	-5.22	1.33	1.38
85	5	2697	A	P-O5'	-5.22	1.54	1.59
1	2	194	U	C2-N3	5.22	1.41	1.37
1	2	886	U	N3-C4	5.22	1.43	1.38
36	1	376	G	C8-N7	-5.22	1.27	1.30
36	1	1418	A	C6-N6	-5.22	1.29	1.33
36	1	1444	G	N9-C4	-5.22	1.33	1.38
36	1	2193	U	C2-N3	5.22	1.41	1.37
36	1	2289	U	C2-N3	-5.22	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2426	U	N1-C2	-5.22	1.33	1.38
36	1	2655	U	N1-C2	-5.22	1.33	1.38
36	1	3160	U	C2-N3	-5.22	1.34	1.37
45	L8	56	VAL	CB-CG1	-5.22	1.41	1.52
80	6	1022	C	C2-N3	-5.22	1.31	1.35
85	5	243	G	N7-C5	5.22	1.42	1.39
85	5	2097	U	C2-N3	5.22	1.41	1.37
85	5	2376	G	C5-C6	-5.22	1.37	1.42
37	7	14	U	C4-O4	-5.22	1.19	1.23
36	1	429	U	C5'-C4'	-5.22	1.45	1.51
36	1	1202	A	N9-C4	-5.22	1.34	1.37
36	1	2241	U	O3'-P	-5.22	1.54	1.61
1	2	1733	A	N3-C4	-5.22	1.31	1.34
36	1	692	A	C5-C4	-5.22	1.35	1.38
36	1	2409	G	C2'-C1'	-5.22	1.47	1.53
68	O2	30	GLU	CB-CG	5.22	1.62	1.52
74	O8	54	LEU	C-N	-5.22	1.22	1.34
85	5	942	U	O3'-P	-5.22	1.54	1.61
85	5	1134	G	N1-C2	-5.22	1.33	1.37
85	5	2873	U	N3-C4	-5.22	1.33	1.38
85	5	3205	G	N7-C5	-5.22	1.36	1.39
38	8	117	C	N1-C2	-5.22	1.34	1.40
68	o2	76	VAL	CB-CG1	-5.22	1.41	1.52
1	2	896	G	C6-N1	5.22	1.43	1.39
36	1	1309	U	C2-N3	-5.22	1.34	1.37
85	5	872	U	C2-O2	-5.22	1.17	1.22
85	5	1493	G	N3-C4	-5.22	1.31	1.35
85	5	1899	G	N7-C5	-5.22	1.36	1.39
85	5	3296	A	N3-C4	-5.22	1.31	1.34
1	2	81	G	C6-N1	5.22	1.43	1.39
1	2	1131	C	N3-C4	-5.22	1.30	1.33
36	1	572	A	C5-C6	-5.22	1.36	1.41
36	1	755	A	C5-C4	-5.22	1.35	1.38
36	1	907	G	N3-C4	5.22	1.39	1.35
85	5	402	A	N9-C8	-5.22	1.33	1.37
85	5	644	G	N9-C8	-5.22	1.34	1.37
85	5	1111	U	C4-C5	-5.22	1.38	1.43
85	5	1170	A	N7-C5	-5.22	1.36	1.39
44	17	195	PHE	CD2-CE2	-5.22	1.28	1.39
36	1	95	A	N9-C4	-5.21	1.34	1.37
36	1	3106	A	N9-C4	-5.21	1.34	1.37
38	4	53	A	N9-C4	-5.21	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	73	U	N3-C4	5.21	1.43	1.38
80	6	607	G	C5-C4	-5.21	1.34	1.38
80	6	669	G	C6-N1	5.21	1.43	1.39
85	5	1192	C	N1-C6	5.21	1.40	1.37
85	5	1532	C	N3-C4	-5.21	1.30	1.33
85	5	2390	A	C8-N7	-5.21	1.27	1.31
85	5	3105	U	C4'-C3'	-5.21	1.47	1.52
1	2	1274	G	N3-C4	-5.21	1.31	1.35
36	1	25	U	C4-O4	5.21	1.27	1.23
36	1	1620	U	N1-C2	5.21	1.43	1.38
36	1	1725	C	N1-C2	-5.21	1.34	1.40
85	5	2775	U	C2-N3	-5.21	1.34	1.37
85	5	2858	U	N3-C4	-5.21	1.33	1.38
85	5	2891	U	P-OP1	-5.21	1.40	1.49
1	2	344	A	N9-C4	-5.21	1.34	1.37
36	1	154	U	N1-C2	-5.21	1.33	1.38
36	1	1353	U	C2-N3	5.21	1.41	1.37
38	4	133	G	N9-C8	-5.21	1.34	1.37
59	N3	39	VAL	CB-CG2	-5.21	1.42	1.52
85	5	1100	U	N1-C6	-5.21	1.33	1.38
85	5	2350	C	C2-N3	-5.21	1.31	1.35
38	8	7	U	N3-C4	-5.21	1.33	1.38
69	o3	9	VAL	CB-CG2	-5.21	1.42	1.52
36	1	941	G	C5-C4	-5.21	1.34	1.38
36	1	947	G	N9-C8	-5.21	1.34	1.37
80	6	361	C	C4-C5	-5.21	1.38	1.43
80	6	1125	A	N9-C4	-5.21	1.34	1.37
85	5	2354	C	P-OP1	-5.21	1.40	1.49
85	5	2539	C	N1-C6	5.21	1.40	1.37
85	5	3178	A	C6-N1	-5.21	1.31	1.35
36	1	62	A	N3-C4	-5.21	1.31	1.34
36	1	619	A	C6-N6	5.21	1.38	1.33
36	1	3003	G	N9-C8	-5.21	1.34	1.37
80	6	1778	G	N3-C4	-5.21	1.31	1.35
27	d5	54	VAL	N-CA	5.21	1.56	1.46
85	5	605	U	N1-C6	-5.21	1.33	1.38
85	5	844	G	C5-C4	-5.21	1.34	1.38
85	5	3190	C	N3-C4	-5.21	1.30	1.33
85	5	3204	C	C2-N3	-5.21	1.31	1.35
37	7	116	C	N3-C4	5.21	1.37	1.33
36	1	760	G	C6-N1	-5.21	1.35	1.39
36	1	944	C	N1-C2	-5.21	1.34	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1903	U	C2-O2	-5.21	1.17	1.22
36	1	3204	C	C2-N3	-5.21	1.31	1.35
80	6	396	G	N3-C4	-5.21	1.31	1.35
85	5	670	C	N1-C6	-5.21	1.34	1.37
85	5	876	A	N7-C5	-5.21	1.36	1.39
85	5	1457	U	N1-C6	-5.21	1.33	1.38
85	5	1925	U	N1-C2	-5.21	1.33	1.38
85	5	2232	A	N3-C4	-5.21	1.31	1.34
38	8	88	A	C6-N1	-5.21	1.31	1.35
36	1	2631	U	N1-C6	-5.21	1.33	1.38
85	5	213	A	C5-C4	-5.21	1.35	1.38
85	5	591	G	C2-N3	-5.21	1.28	1.32
85	5	815	G	N9-C4	-5.21	1.33	1.38
85	5	2783	U	C2-O2	-5.21	1.17	1.22
36	1	2607	G	N3-C4	-5.20	1.31	1.35
36	1	3108	G	C6-N1	-5.20	1.35	1.39
85	5	1476	G	C2-N2	-5.20	1.29	1.34
85	5	2428	U	N1-C6	-5.20	1.33	1.38
54	m8	87	VAL	CB-CG2	-5.20	1.42	1.52
36	1	2394	G	N9-C8	-5.20	1.34	1.37
36	1	2820	A	N9-C8	-5.20	1.33	1.37
38	4	16	G	N9-C8	-5.20	1.34	1.37
41	L4	74	ILE	C-N	-5.20	1.24	1.34
85	5	141	C	N1-C2	-5.20	1.34	1.40
85	5	437	G	O3'-P	5.20	1.67	1.61
85	5	1874	A	C5-C4	-5.20	1.35	1.38
1	2	949	A	N7-C5	-5.20	1.36	1.39
36	1	109	A	C5-C6	-5.20	1.36	1.41
36	1	2821	C	N1-C6	-5.20	1.34	1.37
38	4	82	U	N3-C4	5.20	1.43	1.38
44	L7	149	TYR	CD2-CE2	5.20	1.47	1.39
80	6	168	A	N9-C4	5.20	1.41	1.37
80	6	1731	A	N7-C5	-5.20	1.36	1.39
85	5	180	C	N1-C2	5.20	1.45	1.40
85	5	1356	U	C4-O4	5.20	1.27	1.23
85	5	1843	C	C2-N3	-5.20	1.31	1.35
85	5	2139	A	N9-C4	-5.20	1.34	1.37
1	2	808	U	C2-N3	5.20	1.41	1.37
36	1	1207	G	C5-C4	-5.20	1.34	1.38
36	1	1535	A	N3-C4	-5.20	1.31	1.34
36	1	1915	A	C5-C6	-5.20	1.36	1.41
36	1	2389	C	C5'-C4'	-5.20	1.45	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2750	U	N1-C6	-5.20	1.33	1.38
36	1	3350	C	N1-C6	5.20	1.40	1.37
37	3	20	A	N9-C4	5.20	1.41	1.37
40	L3	264	VAL	CB-CG1	-5.20	1.42	1.52
80	6	1114	G	N3-C4	-5.20	1.31	1.35
85	5	1407	A	N7-C5	-5.20	1.36	1.39
85	5	1530	U	C4-O4	-5.20	1.19	1.23
85	5	2922	G	N9-C4	-5.20	1.33	1.38
85	5	3168	A	N3-C4	5.20	1.38	1.34
85	5	3309	G	C5-C4	-5.20	1.34	1.38
46	19	48	VAL	CB-CG2	-5.20	1.42	1.52
71	o5	53	CYS	CB-SG	-5.20	1.73	1.81
85	5	848	A	N9-C4	-5.20	1.34	1.37
85	5	2336	U	N1-C2	-5.20	1.33	1.38
85	5	2867	C	N1-C2	-5.20	1.34	1.40
1	2	1382	C	N1-C6	5.20	1.40	1.37
36	1	49	A	C8-N7	-5.20	1.27	1.31
36	1	1339	C	N1-C2	5.20	1.45	1.40
36	1	3271	G	C6-O6	5.20	1.28	1.24
36	1	3310	A	N3-C4	-5.20	1.31	1.34
37	3	29	C	C2-O2	-5.20	1.19	1.24
37	3	48	U	N1-C6	5.20	1.42	1.38
38	4	26	U	N1-C2	-5.20	1.33	1.38
85	5	905	U	N1-C2	-5.20	1.33	1.38
85	5	1401	A	C5-C6	-5.20	1.36	1.41
85	5	1913	A	C6-N6	-5.20	1.29	1.33
36	1	213	A	N3-C4	-5.19	1.31	1.34
36	1	1426	C	C5'-C4'	-5.19	1.45	1.51
36	1	3102	G	N7-C5	-5.19	1.36	1.39
80	6	129	U	C2-N3	5.19	1.41	1.37
80	6	211	U	N3-C4	-5.19	1.33	1.38
80	6	1106	U	C4-C5	-5.19	1.38	1.43
85	5	1635	G	N9-C4	-5.19	1.33	1.38
85	5	1834	U	C4-O4	5.19	1.27	1.23
85	5	3130	A	C8-N7	-5.19	1.27	1.31
1	2	1469	G	N7-C5	-5.19	1.36	1.39
1	2	1553	A	C5-C4	-5.19	1.35	1.38
36	1	1467	A	N7-C5	-5.19	1.36	1.39
36	1	1564	U	N1-C6	5.19	1.42	1.38
36	1	2232	A	C6-N1	-5.19	1.31	1.35
36	1	2914	G	N9-C8	-5.19	1.34	1.37
36	1	2981	U	N1-C6	-5.19	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
44	L7	175	LYS	CD-CE	5.19	1.64	1.51
80	6	1567	U	C2-N3	-5.19	1.34	1.37
80	6	1747	G	N9-C8	-5.19	1.34	1.37
80	6	1761	U	N1-C2	-5.19	1.33	1.38
85	5	639	G	C5-C4	-5.19	1.34	1.38
85	5	655	C	N1-C6	-5.19	1.34	1.37
85	5	1009	A	N3-C4	-5.19	1.31	1.34
85	5	1540	U	N1-C2	-5.19	1.33	1.38
85	5	1823	A	N7-C5	-5.19	1.36	1.39
1	2	173	A	N7-C5	-5.19	1.36	1.39
1	2	752	A	C5-C6	5.19	1.45	1.41
36	1	1093	A	N7-C5	5.19	1.42	1.39
36	1	1522	U	C4-C5	-5.19	1.38	1.43
80	6	406	U	N1-C6	-5.19	1.33	1.38
80	6	720	G	C5-C6	5.19	1.47	1.42
80	6	1715	G	N9-C4	5.19	1.42	1.38
85	5	376	G	N7-C5	-5.19	1.36	1.39
85	5	949	C	C4-C5	-5.19	1.38	1.43
85	5	1678	G	N9-C4	5.19	1.42	1.38
85	5	1868	G	C5-C4	-5.19	1.34	1.38
85	5	2239	G	C5-C6	-5.19	1.37	1.42
85	5	2877	G	C2-N3	-5.19	1.28	1.32
38	8	121	U	C2-N3	-5.19	1.34	1.37
36	1	1377	G	C5-C4	-5.19	1.34	1.38
36	1	2161	G	N1-C2	-5.19	1.33	1.37
38	4	152	G	C2-N3	-5.19	1.28	1.32
85	5	124	U	N1-C2	5.19	1.43	1.38
85	5	1393	A	C6-N1	-5.19	1.31	1.35
85	5	2319	U	N3-C4	5.19	1.43	1.38
36	1	776	U	C2-O2	5.19	1.27	1.22
36	1	1513	G	C6-O6	-5.19	1.19	1.24
36	1	2732	G	C5-C6	-5.19	1.37	1.42
36	1	2784	G	C5-C4	-5.19	1.34	1.38
36	1	3305	A	N3-C4	-5.19	1.31	1.34
49	M3	119	TYR	CD2-CE2	-5.19	1.31	1.39
80	6	176	C	N3-C4	-5.19	1.30	1.33
80	6	548	G	C2-N3	-5.19	1.28	1.32
80	6	580	A	N9-C4	5.19	1.41	1.37
80	6	1160	A	N9-C4	-5.19	1.34	1.37
85	5	1884	A	N9-C4	-5.19	1.34	1.37
80	6	394	C	N1-C2	-5.19	1.34	1.40
85	5	1380	G	N9-C4	-5.19	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	7	14	U	C2-O2	-5.19	1.17	1.22
39	l2	4	VAL	CB-CG1	-5.19	1.42	1.52
50	m4	47	ASP	CB-CG	-5.19	1.40	1.51
54	m8	153	PHE	CD2-CE2	-5.19	1.28	1.39
1	2	1793	G	N3-C4	5.18	1.39	1.35
36	1	1196	C	N1-C2	5.18	1.45	1.40
36	1	1544	G	C5-C4	-5.18	1.34	1.38
36	1	2402	A	N3-C4	-5.18	1.31	1.34
36	1	3396	U	N1-C2	5.18	1.43	1.38
54	M8	106	PHE	CB-CG	-5.18	1.42	1.51
80	6	652	G	C6-N1	5.18	1.43	1.39
80	6	1650	U	N1-C2	-5.18	1.33	1.38
85	5	156	G	C5-C4	-5.18	1.34	1.38
85	5	661	G	N7-C5	-5.18	1.36	1.39
85	5	1059	G	C5-C4	-5.18	1.34	1.38
85	5	2267	C	N3-C4	-5.18	1.30	1.33
36	1	968	G	C5-C6	-5.18	1.37	1.42
36	1	994	G	C5-C4	-5.18	1.34	1.38
38	4	100	U	C4'-C3'	-5.18	1.47	1.52
80	6	305	C	N1-C2	-5.18	1.34	1.40
80	6	986	G	N3-C4	-5.18	1.31	1.35
85	5	654	C	C4-C5	-5.18	1.38	1.43
85	5	1166	G	C5-C4	-5.18	1.34	1.38
85	5	3279	A	P-O5'	5.18	1.65	1.59
85	5	3310	A	C5-C6	-5.18	1.36	1.41
37	7	119	U	C2-N3	-5.18	1.34	1.37
36	1	64	G	C2-N3	-5.18	1.28	1.32
36	1	420	G	C5-C4	-5.18	1.34	1.38
36	1	726	G	C6-O6	-5.18	1.19	1.24
36	1	1110	U	C4'-C3'	-5.18	1.47	1.52
36	1	2400	G	C6-N1	-5.18	1.35	1.39
36	1	2442	G	C5-C4	5.18	1.42	1.38
36	1	2864	A	C4'-C3'	-5.18	1.47	1.52
85	5	1017	C	N3-C4	5.18	1.37	1.33
36	1	110	G	C2-N3	-5.18	1.28	1.32
36	1	196	G	N7-C5	-5.18	1.36	1.39
36	1	412	G	N3-C4	-5.18	1.31	1.35
36	1	637	C	C5-C6	-5.18	1.30	1.34
36	1	781	G	C2-N3	-5.18	1.28	1.32
36	1	824	C	N1-C6	-5.18	1.34	1.37
36	1	1850	A	N7-C5	-5.18	1.36	1.39
36	1	2614	G	N7-C5	-5.18	1.36	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
41	L4	272	VAL	CB-CG2	-5.18	1.42	1.52
85	5	222	A	C6-N6	-5.18	1.29	1.33
85	5	639	G	C5-C6	-5.18	1.37	1.42
85	5	956	U	N1-C6	-5.18	1.33	1.38
85	5	1020	G	C6-N1	5.18	1.43	1.39
85	5	1193	A	N9-C4	-5.18	1.34	1.37
85	5	2793	G	N9-C4	-5.18	1.33	1.38
85	5	2951	G	N9-C4	-5.18	1.33	1.38
36	1	592	A	N9-C4	5.18	1.41	1.37
36	1	3318	G	N3-C4	-5.18	1.31	1.35
80	6	1169	G	C6-N1	-5.18	1.35	1.39
1	2	349	U	C2-N3	-5.18	1.34	1.37
80	6	91	G	N9-C4	-5.18	1.33	1.38
85	5	3011	A	C5-C6	-5.18	1.36	1.41
42	l5	133	GLU	CG-CD	5.18	1.59	1.51
1	2	1290	U	C2-N3	5.17	1.41	1.37
36	1	272	G	N3-C4	-5.17	1.31	1.35
36	1	584	G	C6-N1	-5.17	1.35	1.39
36	1	838	G	C5-C4	-5.17	1.34	1.38
36	1	1352	A	O3'-P	5.17	1.67	1.61
36	1	2295	A	N7-C5	-5.17	1.36	1.39
38	4	18	U	N1-C2	-5.17	1.33	1.38
80	6	825	U	N1-C2	-5.17	1.33	1.38
85	5	1006	A	C6-N1	-5.17	1.31	1.35
85	5	1447	G	N9-C8	-5.17	1.34	1.37
54	m8	147	ARG	CB-CG	-5.17	1.38	1.52
57	n1	72	VAL	CB-CG1	-5.17	1.42	1.52
36	1	602	A	N1-C2	5.17	1.39	1.34
36	1	1807	G	C6-N1	-5.17	1.35	1.39
80	6	1671	A	C5-C4	-5.17	1.35	1.38
85	5	150	A	N3-C4	5.17	1.38	1.34
85	5	2375	G	N9-C4	-5.17	1.33	1.38
37	7	9	C	C2-N3	-5.17	1.31	1.35
36	1	874	U	N1-C6	-5.17	1.33	1.38
36	1	1419	A	N7-C5	-5.17	1.36	1.39
36	1	1534	A	C6-N6	-5.17	1.29	1.33
36	1	1800	A	C6-N1	-5.17	1.31	1.35
36	1	1893	A	C6-N1	-5.17	1.31	1.35
36	1	1906	G	C5-C6	-5.17	1.37	1.42
36	1	2699	G	C8-N7	-5.17	1.27	1.30
38	4	53	A	C5-C4	-5.17	1.35	1.38
80	6	986	G	N9-C8	-5.17	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	1301	U	C2-O2	5.17	1.27	1.22
85	5	377	A	N3-C4	5.17	1.38	1.34
85	5	1383	G	N3-C4	-5.17	1.31	1.35
85	5	2376	G	N9-C4	-5.17	1.33	1.38
36	1	1179	A	N7-C5	-5.17	1.36	1.39
42	L5	160	PHE	CB-CG	-5.17	1.42	1.51
67	O1	67	VAL	CB-CG1	-5.17	1.42	1.52
85	5	924	G	C2-N3	-5.17	1.28	1.32
85	5	1141	C	N3-C4	-5.17	1.30	1.33
85	5	1171	G	C3'-C2'	-5.17	1.47	1.52
85	5	2408	U	N3-C4	-5.17	1.33	1.38
85	5	3209	A	N9-C4	5.17	1.41	1.37
36	1	597	G	C6-O6	-5.17	1.19	1.24
36	1	1648	A	N3-C4	-5.17	1.31	1.34
36	1	1873	U	N1-C2	-5.17	1.33	1.38
36	1	2433	U	C4-C5	-5.17	1.38	1.43
36	1	2625	C	N1-C6	-5.17	1.34	1.37
36	1	2817	A	C6-N1	-5.17	1.31	1.35
80	6	676	G	N3-C4	5.17	1.39	1.35
85	5	1804	A	N7-C5	-5.17	1.36	1.39
59	n3	61	THR	CB-CG2	-5.17	1.35	1.52
1	2	1458	A	N9-C4	-5.17	1.34	1.37
36	1	265	A	C6-N6	5.17	1.38	1.33
36	1	908	G	C6-N1	-5.17	1.35	1.39
36	1	2145	A	C6-N1	-5.17	1.31	1.35
80	6	545	A	N3-C4	-5.17	1.31	1.34
80	6	1658	G	C6-N1	-5.17	1.35	1.39
85	5	377	A	N9-C8	5.17	1.41	1.37
85	5	651	G	C6-N1	-5.17	1.35	1.39
85	5	1494	U	N1-C6	-5.17	1.33	1.38
37	7	10	C	N3-C4	-5.17	1.30	1.33
55	m9	101	VAL	CB-CG2	-5.17	1.42	1.52
64	n8	130	VAL	CB-CG1	-5.17	1.42	1.52
1	2	1653	G	N3-C4	-5.17	1.31	1.35
36	1	641	C	P-OP2	-5.17	1.40	1.49
36	1	1350	A	P-OP2	5.17	1.57	1.49
36	1	2392	C	N1-C6	-5.17	1.34	1.37
79	Q3	55	TRP	CE3-CZ3	-5.17	1.29	1.38
80	6	750	U	N1-C2	-5.17	1.33	1.38
80	6	989	U	C4-O4	5.17	1.27	1.23
80	6	1610	G	N1-C2	-5.17	1.33	1.37
85	5	1649	U	N1-C2	-5.17	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2382	G	C5-C4	-5.17	1.34	1.38
85	5	2857	C	C4-C5	-5.17	1.38	1.43
36	1	1541	G	N7-C5	5.16	1.42	1.39
37	3	76	A	C6-N1	5.16	1.39	1.35
79	Q3	92	ALA	CA-CB	5.16	1.63	1.52
80	6	18	C	C4-C5	-5.16	1.38	1.43
80	6	1088	A	N7-C5	-5.16	1.36	1.39
85	5	2593	A	N9-C4	-5.16	1.34	1.37
36	1	332	C	N3-C4	-5.16	1.30	1.33
36	1	1807	G	C5-C6	-5.16	1.37	1.42
36	1	1840	U	N1-C2	-5.16	1.33	1.38
36	1	2243	A	C6-N1	-5.16	1.31	1.35
36	1	2918	G	C6-N1	-5.16	1.35	1.39
36	1	3028	G	N3-C4	5.16	1.39	1.35
80	6	1587	A	N9-C4	-5.16	1.34	1.37
85	5	760	G	C5-C6	-5.16	1.37	1.42
85	5	2722	U	N1-C6	-5.16	1.33	1.38
85	5	2767	U	N3-C4	5.16	1.43	1.38
85	5	3069	G	C6-O6	-5.16	1.19	1.24
1	2	1773	A	N3-C4	-5.16	1.31	1.34
36	1	127	G	C6-N1	-5.16	1.35	1.39
36	1	527	A	N9-C4	5.16	1.41	1.37
36	1	1299	U	O3'-P	-5.16	1.54	1.61
36	1	1433	A	P-O5'	-5.16	1.54	1.59
36	1	2648	G	C2-N3	-5.16	1.28	1.32
37	3	105	C	N1-C2	-5.16	1.34	1.40
80	6	622	A	N9-C4	-5.16	1.34	1.37
85	5	52	A	N9-C4	-5.16	1.34	1.37
85	5	905	U	C2-O2	-5.16	1.17	1.22
85	5	973	A	N9-C8	-5.16	1.33	1.37
85	5	1332	A	C2-N3	-5.16	1.28	1.33
85	5	2822	U	C4-O4	5.16	1.27	1.23
37	7	44	C	C2-N3	5.16	1.39	1.35
36	1	2114	C	N3-C4	-5.16	1.30	1.33
36	1	2187	G	C5-C6	-5.16	1.37	1.42
36	1	2608	G	C2-N3	-5.16	1.28	1.32
37	3	79	A	C6-N1	-5.16	1.31	1.35
38	4	105	A	N3-C4	5.16	1.38	1.34
52	M6	88	VAL	CB-CG2	-5.16	1.42	1.52
80	6	1115	U	N1-C2	-5.16	1.33	1.38
85	5	1565	G	N9-C8	5.16	1.41	1.37
85	5	2943	G	N9-C4	-5.16	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2	328	A	N7-C5	-5.16	1.36	1.39
1	2	1733	A	C6-N1	-5.16	1.31	1.35
36	1	2298	U	N1-C2	-5.16	1.33	1.38
38	4	96	A	N1-C2	-5.16	1.29	1.34
80	6	480	G	C5-C6	5.16	1.47	1.42
85	5	492	U	N3-C4	5.16	1.43	1.38
85	5	513	G	C6-N1	-5.16	1.35	1.39
36	1	591	G	N9-C8	-5.16	1.34	1.37
36	1	901	G	C2-N3	-5.16	1.28	1.32
36	1	1386	A	C6-N6	-5.16	1.29	1.33
36	1	1801	U	N1-C6	-5.16	1.33	1.38
36	1	2601	A	N1-C2	-5.16	1.29	1.34
36	1	2633	U	N3-C4	-5.16	1.33	1.38
36	1	2805	G	N7-C5	-5.16	1.36	1.39
36	1	3114	A	N9-C8	-5.16	1.33	1.37
37	3	5	G	C6-N1	-5.16	1.35	1.39
80	6	98	U	N1-C2	-5.16	1.33	1.38
80	6	496	G	C6-N1	5.16	1.43	1.39
80	6	601	A	N7-C5	-5.16	1.36	1.39
85	5	824	C	C2-O2	-5.16	1.19	1.24
85	5	1099	A	N7-C5	-5.16	1.36	1.39
85	5	2278	C	C4-C5	-5.16	1.38	1.43
85	5	268	A	C6-N1	-5.15	1.31	1.35
85	5	1836	C	N1-C2	-5.15	1.34	1.40
1	2	962	A	N3-C4	-5.15	1.31	1.34
1	2	1125	A	N7-C5	-5.15	1.36	1.39
1	2	1583	A	N9-C4	-5.15	1.34	1.37
36	1	18	G	O3'-P	-5.15	1.54	1.61
36	1	1147	G	C5-C4	-5.15	1.34	1.38
36	1	1760	A	N7-C5	5.15	1.42	1.39
85	5	165	A	N9-C4	5.15	1.41	1.37
85	5	1780	G	C6-N1	-5.15	1.35	1.39
85	5	2273	G	N3-C4	-5.15	1.31	1.35
38	8	45	C	N1-C6	-5.15	1.34	1.37
68	o2	119	VAL	CB-CG1	-5.15	1.42	1.52
36	1	360	G	N7-C5	-5.15	1.36	1.39
36	1	378	A	N3-C4	-5.15	1.31	1.34
36	1	655	C	C2-O2	-5.15	1.19	1.24
36	1	1494	U	N1-C2	-5.15	1.33	1.38
36	1	2862	U	C4'-C3'	-5.15	1.47	1.52
38	4	15	G	C6-N1	-5.15	1.35	1.39
80	6	486	G	N9-C8	5.15	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1772	U	C5-C6	5.15	1.38	1.34
85	5	2250	G	N9-C4	-5.15	1.33	1.38
36	1	1162	U	C4-O4	-5.15	1.19	1.23
36	1	1313	G	C5-C6	-5.15	1.37	1.42
44	L7	24	GLU	CB-CG	5.15	1.61	1.52
80	6	1728	A	C5-C6	-5.15	1.36	1.41
85	5	533	A	N7-C5	-5.15	1.36	1.39
85	5	3133	C	C2-O2	-5.15	1.19	1.24
1	2	822	U	C2-N3	5.15	1.41	1.37
1	2	1552	A	N9-C4	5.15	1.41	1.37
36	1	1658	G	N3-C4	-5.15	1.31	1.35
36	1	1877	U	N3-C4	-5.15	1.33	1.38
36	1	2121	G	N9-C8	-5.15	1.34	1.37
36	1	2730	G	C2-N2	-5.15	1.29	1.34
36	1	2934	A	C6-N1	-5.15	1.31	1.35
36	1	3142	A	N9-C4	-5.15	1.34	1.37
44	L7	192	GLY	C-N	-5.15	1.24	1.34
73	O7	27	PHE	CD1-CE1	-5.15	1.28	1.39
85	5	669	U	C2-N3	-5.15	1.34	1.37
85	5	819	U	C2'-C1'	-5.15	1.47	1.53
85	5	1047	A	C6-N6	-5.15	1.29	1.33
85	5	1351	U	C4-C5	5.15	1.48	1.43
85	5	2433	U	N1-C6	-5.15	1.33	1.38
85	5	2867	C	N3-C4	-5.15	1.30	1.33
85	5	3055	U	C2-O2	-5.15	1.17	1.22
85	5	3085	G	C2-N3	-5.15	1.28	1.32
36	1	838	G	N7-C5	-5.15	1.36	1.39
85	5	1727	G	N3-C4	-5.15	1.31	1.35
85	5	1761	C	N1-C2	5.15	1.45	1.40
85	5	2387	A	N3-C4	-5.15	1.31	1.34
1	2	737	A	C5-C6	5.14	1.45	1.41
36	1	798	G	N1-C2	-5.14	1.33	1.37
36	1	861	C	N1-C6	-5.14	1.34	1.37
36	1	1321	G	N7-C5	-5.14	1.36	1.39
36	1	1364	C	N3-C4	-5.14	1.30	1.33
36	1	1829	G	N9-C8	-5.14	1.34	1.37
36	1	2106	A	C6-N1	5.14	1.39	1.35
36	1	2618	G	C2-N2	-5.14	1.29	1.34
54	M8	153	PHE	CD2-CE2	-5.14	1.28	1.39
85	5	350	C	C2-N3	-5.14	1.31	1.35
85	5	1129	A	C6-N6	-5.14	1.29	1.33
85	5	1569	U	N3-C4	5.14	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	1640	G	N3-C4	-5.14	1.31	1.35
85	5	1882	G	N7-C5	-5.14	1.36	1.39
85	5	3080	G	N9-C4	-5.14	1.33	1.38
85	5	3244	A	N9-C4	5.14	1.41	1.37
37	7	57	G	N9-C4	-5.14	1.33	1.38
1	2	716	A	N3-C4	5.14	1.38	1.34
36	1	39	A	N7-C5	5.14	1.42	1.39
36	1	583	G	C5-C4	-5.14	1.34	1.38
36	1	609	G	C5-C4	-5.14	1.34	1.38
36	1	678	G	C5-C6	-5.14	1.37	1.42
36	1	701	G	C6-N1	-5.14	1.35	1.39
36	1	1217	A	N9-C4	5.14	1.41	1.37
36	1	3067	C	N1-C2	-5.14	1.35	1.40
38	4	107	G	N9-C4	-5.14	1.33	1.38
80	6	1126	G	N9-C8	-5.14	1.34	1.37
11	s9	81	VAL	CB-CG1	-5.14	1.42	1.52
85	5	1470	U	C2-N3	-5.14	1.34	1.37
85	5	2668	U	N3-C4	5.14	1.43	1.38
38	8	31	G	N7-C5	-5.14	1.36	1.39
64	n8	98	THR	C-N	5.14	1.45	1.34
69	o3	21	ARG	CG-CD	5.14	1.64	1.51
36	1	440	A	P-O5'	5.14	1.64	1.59
36	1	3308	C	C4-C5	-5.14	1.38	1.43
38	4	135	G	N3-C4	-5.14	1.31	1.35
85	5	1944	U	C2-N3	-5.14	1.34	1.37
85	5	2682	C	C2-N3	-5.14	1.31	1.35
1	2	1778	U	N1-C2	5.14	1.43	1.38
36	1	585	A	N9-C8	-5.14	1.33	1.37
36	1	719	U	C2-O2	5.14	1.26	1.22
36	1	1289	G	N9-C4	-5.14	1.33	1.38
36	1	1852	G	C2'-C1'	-5.14	1.47	1.53
36	1	2207	A	N9-C8	5.14	1.41	1.37
36	1	2726	C	N1-C2	-5.14	1.35	1.40
36	1	2813	A	C6-N1	-5.14	1.31	1.35
36	1	2819	A	C6-N1	5.14	1.39	1.35
36	1	2968	G	N3-C4	-5.14	1.31	1.35
36	1	3309	G	C2-N3	-5.14	1.28	1.32
38	4	107	G	N9-C8	-5.14	1.34	1.37
80	6	872	G	C6-N1	5.14	1.43	1.39
85	5	519	A	N9-C8	-5.14	1.33	1.37
85	5	1675	G	N1-C2	-5.14	1.33	1.37
85	5	1902	G	P-O5'	-5.14	1.54	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2162	U	N3-C4	-5.14	1.33	1.38
85	5	2312	A	C6-N1	-5.14	1.31	1.35
85	5	2380	U	C4'-C3'	-5.14	1.47	1.52
85	5	2793	G	N9-C8	-5.14	1.34	1.37
37	7	64	A	N9-C4	5.14	1.41	1.37
36	1	118	U	N1-C2	-5.14	1.33	1.38
36	1	2986	U	C2-O2	-5.14	1.17	1.22
38	4	45	C	N1-C2	-5.14	1.35	1.40
85	5	363	G	C6-N1	-5.14	1.35	1.39
85	5	1851	G	C3'-C2'	-5.14	1.47	1.52
44	17	39	GLU	CD-OE1	5.14	1.31	1.25
36	1	1287	A	N3-C4	-5.14	1.31	1.34
36	1	1752	A	N9-C4	-5.14	1.34	1.37
36	1	1915	A	N7-C5	-5.14	1.36	1.39
37	3	19	C	N1-C6	5.14	1.40	1.37
80	6	1784	C	C2-O2	-5.14	1.19	1.24
85	5	440	A	N3-C4	5.14	1.38	1.34
85	5	1690	C	N1-C6	-5.14	1.34	1.37
85	5	2356	A	P-O5'	-5.14	1.54	1.59
85	5	2411	U	N1-C2	-5.14	1.33	1.38
37	7	57	G	C5-C4	-5.14	1.34	1.38
1	2	601	A	C5-C6	-5.13	1.36	1.41
1	2	1148	G	N9-C8	5.13	1.41	1.37
36	1	1868	G	C6-N1	-5.13	1.35	1.39
36	1	1916	U	N1-C2	-5.13	1.33	1.38
36	1	3004	C	C5'-C4'	-5.13	1.45	1.51
36	1	3140	G	N1-C2	-5.13	1.33	1.37
37	3	55	A	C6-N1	-5.13	1.31	1.35
85	5	2949	U	C4-C5	-5.13	1.39	1.43
1	2	260	U	N1-C6	5.13	1.42	1.38
36	1	2663	G	N3-C4	-5.13	1.31	1.35
80	6	1727	G	N9-C8	-5.13	1.34	1.37
1	2	627	C	C4-C5	-5.13	1.38	1.43
1	2	1003	A	N3-C4	-5.13	1.31	1.34
36	1	690	A	C6-N1	-5.13	1.31	1.35
36	1	2632	G	N3-C4	-5.13	1.31	1.35
36	1	2820	A	C6-N1	-5.13	1.31	1.35
44	L7	176	TYR	CE1-CZ	-5.13	1.31	1.38
80	6	1747	G	C6-O6	-5.13	1.19	1.24
85	5	707	U	C2-O2	-5.13	1.17	1.22
85	5	751	A	N9-C8	-5.13	1.33	1.37
85	5	855	U	C2-N3	5.13	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	7	44	C	N3-C4	5.13	1.37	1.33
36	1	1208	U	C2-N3	-5.13	1.34	1.37
36	1	1407	A	N9-C8	-5.13	1.33	1.37
85	5	213	A	N7-C5	-5.13	1.36	1.39
85	5	769	G	N3-C4	-5.13	1.31	1.35
85	5	2133	U	C4-O4	-5.13	1.19	1.23
85	5	2188	A	N9-C8	-5.13	1.33	1.37
85	5	2934	A	C6-N1	-5.13	1.31	1.35
85	5	3085	G	N9-C4	-5.13	1.33	1.38
36	1	647	A	C6-N1	-5.13	1.31	1.35
36	1	1841	A	N9-C8	-5.13	1.33	1.37
36	1	2592	G	N9-C4	-5.13	1.33	1.38
36	1	2598	G	C6-N1	-5.13	1.35	1.39
36	1	3378	C	C2-O2	-5.13	1.19	1.24
37	3	41	G	N9-C4	-5.13	1.33	1.38
40	L3	158	VAL	CB-CG2	-5.13	1.42	1.52
80	6	51	A	C6-N1	-5.13	1.31	1.35
80	6	577	G	C6-N1	5.13	1.43	1.39
85	5	907	G	C6-N1	-5.13	1.35	1.39
85	5	2414	G	N9-C4	-5.13	1.33	1.38
85	5	3223	A	N3-C4	-5.13	1.31	1.34
38	8	44	A	C5-C6	-5.13	1.36	1.41
9	S7	98	ILE	C-N	5.13	1.45	1.34
36	1	1061	A	N3-C4	-5.13	1.31	1.34
36	1	1935	G	N9-C8	-5.13	1.34	1.37
36	1	2888	U	N1-C6	-5.13	1.33	1.38
36	1	2946	A	N1-C2	-5.13	1.29	1.34
36	1	3034	C	C4-C5	-5.13	1.38	1.43
36	1	3256	G	N9-C8	5.13	1.41	1.37
38	4	131	A	N3-C4	-5.13	1.31	1.34
80	6	241	U	C4-O4	5.13	1.27	1.23
80	6	871	G	N1-C2	5.13	1.41	1.37
85	5	2117	A	N7-C5	-5.13	1.36	1.39
85	5	2787	G	N3-C4	-5.13	1.31	1.35
44	17	38	LYS	CD-CE	5.13	1.64	1.51
47	m0	146	ASP	CB-CG	5.13	1.62	1.51
1	2	1362	C	N1-C6	5.12	1.40	1.37
80	6	783	G	N1-C2	-5.12	1.33	1.37
85	5	2663	G	C6-N1	5.12	1.43	1.39
85	5	2890	A	N9-C4	-5.12	1.34	1.37
38	8	10	A	C5-C4	-5.12	1.35	1.38
36	1	1048	A	N9-C4	-5.12	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2408	U	C5-C6	-5.12	1.29	1.34
80	6	657	U	C2-N3	5.12	1.41	1.37
85	5	216	G	C5-C6	-5.12	1.37	1.42
85	5	634	C	N1-C2	-5.12	1.35	1.40
85	5	1297	C	N3-C4	-5.12	1.30	1.33
85	5	2790	A	N7-C5	-5.12	1.36	1.39
85	5	3012	A	C5-C4	-5.12	1.35	1.38
85	5	3310	A	C6-N1	-5.12	1.31	1.35
85	5	3314	A	C6-N1	-5.12	1.31	1.35
36	1	805	G	C6-N1	-5.12	1.35	1.39
36	1	925	A	C6-N1	-5.12	1.31	1.35
36	1	1170	A	C2'-C1'	-5.12	1.47	1.53
36	1	2214	A	C5-C6	-5.12	1.36	1.41
36	1	3101	G	C6-N1	-5.12	1.35	1.39
45	L8	233	TRP	CE3-CZ3	-5.12	1.29	1.38
59	N3	4	ASN	CB-CG	5.12	1.62	1.51
85	5	237	G	C6-N1	5.12	1.43	1.39
85	5	1079	A	N3-C4	-5.12	1.31	1.34
85	5	1368	U	C4-C5	-5.12	1.39	1.43
85	5	2671	A	N7-C5	-5.12	1.36	1.39
85	5	3034	C	C2-N3	-5.12	1.31	1.35
85	5	3108	G	N7-C5	-5.12	1.36	1.39
53	m7	60	PHE	CD2-CE2	-5.12	1.29	1.39
71	o5	70	TYR	CD1-CE1	-5.12	1.31	1.39
36	1	562	C	N3-C4	-5.12	1.30	1.33
36	1	838	G	C2-N3	-5.12	1.28	1.32
36	1	2607	G	C5-C6	-5.12	1.37	1.42
85	5	1858	A	N7-C5	-5.12	1.36	1.39
85	5	1922	A	C5-C6	-5.12	1.36	1.41
61	n5	83	VAL	CB-CG1	-5.12	1.42	1.52
1	2	971	A	C5-C6	-5.12	1.36	1.41
36	1	1002	A	N9-C4	-5.12	1.34	1.37
36	1	1377	G	C5-C6	-5.12	1.37	1.42
36	1	2508	U	N3-C4	5.12	1.43	1.38
36	1	3123	A	C5-C4	-5.12	1.35	1.38
36	1	3213	A	N3-C4	-5.12	1.31	1.34
85	5	248	U	N1-C6	5.12	1.42	1.38
85	5	1380	G	N9-C8	-5.12	1.34	1.37
85	5	1465	A	C6-N1	-5.12	1.31	1.35
85	5	1654	A	C5-C4	-5.12	1.35	1.38
85	5	2337	C	N3-C4	-5.12	1.30	1.33
85	5	2864	A	C6-N6	-5.12	1.29	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
52	m6	135	TYR	CD2-CE2	-5.12	1.31	1.39
36	1	627	U	N1-C2	-5.12	1.33	1.38
80	6	589	C	N1-C6	5.12	1.40	1.37
85	5	3239	G	N9-C4	-5.12	1.33	1.38
1	2	239	C	N1-C6	5.12	1.40	1.37
36	1	97	U	N1-C6	-5.12	1.33	1.38
36	1	1708	C	C2-O2	-5.12	1.19	1.24
36	1	2956	A	N9-C8	-5.12	1.33	1.37
80	6	972	G	C5-C6	-5.12	1.37	1.42
80	6	1143	A	C5-C4	5.12	1.42	1.38
80	6	1411	A	N9-C4	-5.12	1.34	1.37
85	5	2382	G	C8-N7	-5.12	1.27	1.30
85	5	3309	G	O3'-P	-5.12	1.55	1.61
1	2	428	A	C6-N1	-5.11	1.31	1.35
36	1	1354	G	N7-C5	5.11	1.42	1.39
36	1	1654	A	N9-C8	-5.11	1.33	1.37
85	5	2262	A	N9-C8	-5.11	1.33	1.37
85	5	2324	A	C5-C4	-5.11	1.35	1.38
85	5	2337	C	N1-C2	-5.11	1.35	1.40
85	5	2882	U	C2-O2	-5.11	1.17	1.22
85	5	3128	G	N1-C2	-5.11	1.33	1.37
85	5	3157	U	C2-N3	5.11	1.41	1.37
1	2	1633	U	C2-O2	-5.11	1.17	1.22
36	1	1891	A	C5-C4	-5.11	1.35	1.38
36	1	3211	C	N1-C6	-5.11	1.34	1.37
80	6	770	A	N9-C8	-5.11	1.33	1.37
85	5	2333	C	C4-N4	-5.11	1.29	1.33
85	5	2636	A	C6-N1	-5.11	1.31	1.35
85	5	2642	A	C6-N1	-5.11	1.31	1.35
85	5	3318	G	N9-C8	-5.11	1.34	1.37
1	2	469	C	C2-N3	-5.11	1.31	1.35
36	1	105	C	C4-C5	-5.11	1.38	1.43
36	1	389	A	N3-C4	-5.11	1.31	1.34
36	1	1740	U	N1-C2	-5.11	1.33	1.38
80	6	103	A	N7-C5	-5.11	1.36	1.39
80	6	1590	G	N9-C4	-5.11	1.33	1.38
85	5	193	C	C2-N3	-5.11	1.31	1.35
85	5	300	G	C6-N1	-5.11	1.35	1.39
85	5	1779	C	C2'-C1'	5.11	1.58	1.53
85	5	2686	A	N9-C8	-5.11	1.33	1.37
85	5	3018	C	C2-O2	-5.11	1.19	1.24
37	7	80	G	C2-N2	-5.11	1.29	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2	776	A	N7-C5	5.11	1.42	1.39
36	1	1370	G	C5-C4	-5.11	1.34	1.38
36	1	1897	G	N7-C5	-5.11	1.36	1.39
85	5	408	A	C4'-C3'	-5.11	1.47	1.52
85	5	1846	C	N1-C6	-5.11	1.34	1.37
1	2	831	C	N1-C2	5.11	1.45	1.40
36	1	1405	U	N1-C6	-5.11	1.33	1.38
80	6	825	U	C2-N3	5.11	1.41	1.37
85	5	2404	A	C5-C4	5.11	1.42	1.38
85	5	2438	A	C5-C4	5.11	1.42	1.38
85	5	3135	U	N1-C2	-5.11	1.33	1.38
38	8	9	A	N9-C4	5.11	1.41	1.37
73	o7	49	TRP	CB-CG	-5.11	1.41	1.50
36	1	3223	A	N3-C4	-5.11	1.31	1.34
80	6	1303	U	N1-C6	-5.11	1.33	1.38
85	5	353	G	N1-C2	-5.11	1.33	1.37
85	5	1117	G	C3'-C2'	-5.11	1.47	1.52
85	5	1139	G	C8-N7	-5.11	1.27	1.30
85	5	1366	A	N7-C5	-5.11	1.36	1.39
85	5	2360	C	C4'-C3'	-5.11	1.47	1.52
85	5	3132	C	N1-C6	-5.11	1.34	1.37
85	5	3158	G	N3-C4	-5.11	1.31	1.35
85	5	3174	A	N7-C5	5.11	1.42	1.39
52	m6	4	GLU	CG-CD	-5.11	1.44	1.51
36	1	1112	A	C3'-C2'	-5.10	1.47	1.52
36	1	1325	U	C2'-C1'	-5.10	1.47	1.53
85	5	1112	A	C6-N6	-5.10	1.29	1.33
85	5	1867	A	N9-C8	-5.10	1.33	1.37
85	5	2239	G	N1-C2	-5.10	1.33	1.37
85	5	2608	G	C5-C4	-5.10	1.34	1.38
36	1	519	A	N3-C4	-5.10	1.31	1.34
36	1	1108	U	N1-C2	-5.10	1.33	1.38
36	1	1468	A	C5-C6	-5.10	1.36	1.41
36	1	1765	U	C4-O4	5.10	1.27	1.23
36	1	3198	U	C2-N3	-5.10	1.34	1.37
85	5	1294	A	C5-C6	-5.10	1.36	1.41
85	5	2256	A	N9-C8	5.10	1.41	1.37
85	5	2813	A	C5-C6	-5.10	1.36	1.41
85	5	2943	G	C2-N3	-5.10	1.28	1.32
37	7	43	U	C2-O2	-5.10	1.17	1.22
36	1	937	G	C2-N2	-5.10	1.29	1.34
36	1	1839	A	N3-C4	-5.10	1.31	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2618	G	N7-C5	-5.10	1.36	1.39
36	1	2729	U	C2-N3	5.10	1.41	1.37
80	6	39	A	N7-C5	-5.10	1.36	1.39
80	6	320	U	C2-O2	5.10	1.26	1.22
85	5	2618	G	C6-O6	-5.10	1.19	1.24
85	5	2928	C	C2-O2	-5.10	1.19	1.24
1	2	1653	G	N7-C5	-5.10	1.36	1.39
85	5	710	A	C5-C6	-5.10	1.36	1.41
85	5	1462	A	C5-C6	-5.10	1.36	1.41
85	5	1835	A	N9-C4	-5.10	1.34	1.37
85	5	1928	G	N9-C8	5.10	1.41	1.37
85	5	2149	A	C5-C4	-5.10	1.35	1.38
38	8	92	A	N9-C8	5.10	1.41	1.37
1	2	999	C	N1-C6	-5.10	1.34	1.37
36	1	88	A	P-OP2	-5.10	1.40	1.49
36	1	157	A	N9-C4	-5.10	1.34	1.37
36	1	198	A	N9-C4	-5.10	1.34	1.37
36	1	299	G	C6-N1	5.10	1.43	1.39
36	1	1352	A	P-OP1	5.10	1.57	1.49
36	1	2377	G	N1-C2	-5.10	1.33	1.37
36	1	2697	A	N1-C2	-5.10	1.29	1.34
36	1	2752	U	C2-O2	-5.10	1.17	1.22
36	1	3057	U	N3-C4	-5.10	1.33	1.38
37	3	73	C	N1-C6	5.10	1.40	1.37
80	6	1674	C	N1-C6	-5.10	1.34	1.37
85	5	174	C	N1-C2	5.10	1.45	1.40
85	5	390	G	C2'-C1'	-5.10	1.47	1.53
85	5	707	U	N1-C6	-5.10	1.33	1.38
85	5	2354	C	C3'-C2'	-5.10	1.47	1.52
85	5	2800	G	C6-N1	-5.10	1.35	1.39
54	m8	96	PHE	CB-CG	-5.10	1.42	1.51
47	M0	50	VAL	CB-CG2	-5.10	1.42	1.52
69	O3	94	PHE	CD2-CE2	-5.10	1.29	1.39
85	5	825	U	N1-C6	-5.10	1.33	1.38
85	5	2385	G	N9-C4	-5.10	1.33	1.38
85	5	3100	U	C2-N3	-5.10	1.34	1.37
85	5	3289	G	N9-C4	5.10	1.42	1.38
1	2	1726	U	N1-C2	-5.09	1.33	1.38
36	1	688	G	C5-C6	5.09	1.47	1.42
36	1	940	G	C8-N7	-5.09	1.27	1.30
36	1	1349	G	N7-C5	5.09	1.42	1.39
36	1	1785	U	N1-C6	-5.09	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	394	C	C4-C5	-5.09	1.38	1.43
80	6	930	A	N9-C4	-5.09	1.34	1.37
80	6	1645	G	N3-C4	-5.09	1.31	1.35
85	5	410	U	C5-C6	5.09	1.38	1.34
85	5	722	G	C5-C4	-5.09	1.34	1.38
85	5	921	A	C6-N1	-5.09	1.31	1.35
85	5	1226	G	N3-C4	-5.09	1.31	1.35
85	5	1336	U	C4-O4	-5.09	1.19	1.23
85	5	1406	A	N7-C5	-5.09	1.36	1.39
85	5	3305	A	C2-N3	-5.09	1.28	1.33
37	7	89	G	C6-N1	-5.09	1.35	1.39
36	1	164	A	N9-C8	5.09	1.41	1.37
36	1	1171	G	N9-C8	-5.09	1.34	1.37
36	1	1884	A	C5-C4	-5.09	1.35	1.38
36	1	2147	A	C3'-C2'	-5.09	1.47	1.52
80	6	103	A	C5-C6	-5.09	1.36	1.41
80	6	574	G	N7-C5	-5.09	1.36	1.39
36	1	329	U	C2-O2	-5.09	1.17	1.22
36	1	651	G	N7-C5	-5.09	1.36	1.39
36	1	3140	G	C6-O6	-5.09	1.19	1.24
80	6	1007	C	N3-C4	-5.09	1.30	1.33
85	5	881	C	N3-C4	-5.09	1.30	1.33
85	5	956	U	C4-O4	-5.09	1.19	1.23
85	5	1609	C	N1-C2	-5.09	1.35	1.40
36	1	80	G	C5-C4	-5.09	1.34	1.38
36	1	2153	U	N3-C4	-5.09	1.33	1.38
36	1	2746	A	N7-C5	-5.09	1.36	1.39
37	3	37	G	C6-N1	5.09	1.43	1.39
85	5	594	U	C4'-C3'	-5.09	1.47	1.52
85	5	1114	U	C4-O4	5.09	1.27	1.23
85	5	1674	G	C6-N1	-5.09	1.35	1.39
85	5	1910	A	N3-C4	-5.09	1.31	1.34
85	5	2433	U	C4-C5	-5.09	1.39	1.43
85	5	2914	G	C3'-C2'	-5.09	1.47	1.52
85	5	3209	A	N3-C4	5.09	1.38	1.34
36	1	407	A	C5-C6	-5.09	1.36	1.41
36	1	412	G	N9-C4	-5.09	1.33	1.38
36	1	2663	G	N9-C8	-5.09	1.34	1.37
36	1	2787	G	C5-C6	-5.09	1.37	1.42
85	5	1245	A	N9-C4	-5.09	1.34	1.37
85	5	2676	A	C5-C6	-5.09	1.36	1.41
36	1	1147	G	C8-N7	-5.09	1.27	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1211	U	C2-N3	-5.09	1.34	1.37
36	1	1952	G	N9-C4	5.09	1.42	1.38
36	1	2643	A	C6-N6	-5.09	1.29	1.33
36	1	3268	A	N7-C5	-5.09	1.36	1.39
36	1	3282	U	N3-C4	5.09	1.43	1.38
36	1	3336	A	N9-C4	-5.09	1.34	1.37
41	L4	181	VAL	CB-CG2	-5.09	1.42	1.52
80	6	1449	U	C2-N3	5.09	1.41	1.37
80	6	1784	C	C5-C6	-5.09	1.30	1.34
85	5	339	C	N1-C2	-5.09	1.35	1.40
85	5	2231	C	C2-O2	-5.09	1.19	1.24
85	5	3059	G	N1-C2	-5.09	1.33	1.37
36	1	2502	A	C5-C4	5.08	1.42	1.38
36	1	2502	A	C5-C6	5.08	1.45	1.41
36	1	2622	C	C2-O2	-5.08	1.19	1.24
36	1	2717	U	C2-N3	-5.08	1.34	1.37
85	5	2291	A	C6-N6	-5.08	1.29	1.33
36	1	535	G	N7-C5	-5.08	1.36	1.39
36	1	1805	C	N3-C4	-5.08	1.30	1.33
36	1	1805	C	N1-C6	-5.08	1.34	1.37
36	1	2747	A	N3-C4	-5.08	1.31	1.34
37	3	1	G	N3-C4	-5.08	1.31	1.35
37	3	94	C	N1-C2	-5.08	1.35	1.40
46	L9	59	ASN	CB-CG	5.08	1.62	1.51
64	N8	136	GLU	CG-CD	5.08	1.59	1.51
80	6	215	A	N9-C8	5.08	1.41	1.37
80	6	328	A	C5-C4	-5.08	1.35	1.38
80	6	418	G	C5-C6	-5.08	1.37	1.42
80	6	789	A	C6-N1	-5.08	1.31	1.35
80	6	1649	G	C5-C4	5.08	1.42	1.38
85	5	1738	C	N1-C2	-5.08	1.35	1.40
85	5	3105	U	C2-O2	-5.08	1.17	1.22
76	q0	94	SER	CB-OG	-5.08	1.35	1.42
1	2	1162	G	N3-C4	-5.08	1.31	1.35
36	1	107	A	N9-C8	-5.08	1.33	1.37
36	1	409	A	N9-C4	-5.08	1.34	1.37
36	1	697	A	C5-C6	-5.08	1.36	1.41
36	1	856	G	N1-C2	-5.08	1.33	1.37
36	1	2617	U	N1-C2	-5.08	1.33	1.38
38	4	8	C	C2-N3	-5.08	1.31	1.35
80	6	438	A	C5-C4	-5.08	1.35	1.38
80	6	934	C	N1-C2	5.08	1.45	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	999	G	C6-N1	-5.08	1.35	1.39
85	5	1664	G	N9-C4	-5.08	1.33	1.38
85	5	1922	A	C6-N1	-5.08	1.31	1.35
85	5	2524	A	N7-C5	-5.08	1.36	1.39
85	5	2864	A	N7-C5	-5.08	1.36	1.39
85	5	2887	A	N9-C4	-5.08	1.34	1.37
85	5	3011	A	N9-C8	-5.08	1.33	1.37
85	5	3276	G	N9-C8	5.08	1.41	1.37
85	5	3276	G	P-O5'	5.08	1.64	1.59
85	5	3376	A	C6-N1	-5.08	1.31	1.35
38	8	99	C	N1-C2	-5.08	1.35	1.40
51	m5	41	ARG	CG-CD	5.08	1.64	1.51
36	1	2575	G	N1-C2	5.08	1.41	1.37
49	M3	119	TYR	CE2-CZ	-5.08	1.31	1.38
80	6	751	G	N9-C8	-5.08	1.34	1.37
85	5	341	G	N9-C4	-5.08	1.33	1.38
85	5	1436	U	N1-C2	-5.08	1.33	1.38
85	5	1481	A	P-O5'	-5.08	1.54	1.59
1	2	1728	G	N9-C8	-5.08	1.34	1.37
36	1	2197	C	N3-C4	-5.08	1.30	1.33
36	1	3008	A	N3-C4	-5.08	1.31	1.34
36	1	3173	G	C8-N7	-5.08	1.27	1.30
36	1	3192	U	C4-O4	5.08	1.27	1.23
80	6	1649	G	C6-N1	5.08	1.43	1.39
4	s2	167	VAL	CB-CG1	-5.08	1.42	1.52
29	d7	40	CYS	CB-SG	5.08	1.90	1.82
85	5	53	G	N3-C4	-5.08	1.31	1.35
85	5	163	C	N1-C2	5.08	1.45	1.40
85	5	626	U	N3-C4	5.08	1.43	1.38
85	5	807	A	C6-N6	-5.08	1.29	1.33
85	5	1000	C	C2-N3	-5.08	1.31	1.35
85	5	2097	U	N1-C2	5.08	1.43	1.38
85	5	2153	U	N1-C6	-5.08	1.33	1.38
85	5	2362	C	P-OP2	-5.08	1.40	1.49
36	1	508	U	N1-C6	-5.08	1.33	1.38
36	1	1539	A	N9-C4	-5.08	1.34	1.37
36	1	3288	G	N9-C8	5.08	1.41	1.37
1	2	887	G	C5-C6	5.08	1.47	1.42
1	2	1542	A	N9-C4	-5.08	1.34	1.37
1	2	1588	G	N9-C4	-5.08	1.33	1.38
36	1	54	C	N1-C2	-5.08	1.35	1.40
36	1	1363	A	C2'-C1'	-5.08	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	1786	G	C6-N1	-5.08	1.35	1.39
36	1	2965	U	C4-C5	-5.08	1.39	1.43
36	1	3326	G	C8-N7	-5.08	1.27	1.30
57	N1	84	TYR	CD2-CE2	5.08	1.47	1.39
85	5	1173	U	N3-C4	-5.08	1.33	1.38
85	5	2820	A	P-O5'	-5.08	1.54	1.59
85	5	2834	G	N3-C4	-5.08	1.31	1.35
36	1	1128	U	C4'-C3'	-5.07	1.47	1.52
37	3	84	A	C5-C6	-5.07	1.36	1.41
49	M3	167	PHE	CB-CG	-5.07	1.42	1.51
85	5	653	A	C6-N6	-5.07	1.29	1.33
85	5	668	G	N9-C8	-5.07	1.34	1.37
85	5	1174	G	N7-C5	-5.07	1.36	1.39
85	5	1915	A	C6-N6	-5.07	1.29	1.33
85	5	1953	G	N9-C8	5.07	1.41	1.37
85	5	2522	G	N9-C8	5.07	1.41	1.37
38	8	20	U	C4-C5	-5.07	1.39	1.43
38	8	81	U	C2-O2	5.07	1.26	1.22
44	17	75	TYR	CE2-CZ	-5.07	1.31	1.38
61	n5	114	VAL	CB-CG2	-5.07	1.42	1.52
36	1	845	G	N3-C4	-5.07	1.31	1.35
36	1	2345	A	C5-C6	-5.07	1.36	1.41
85	5	373	A	N9-C4	-5.07	1.34	1.37
85	5	1417	G	C5-C6	-5.07	1.37	1.42
85	5	1613	A	N9-C8	-5.07	1.33	1.37
85	5	2638	C	C4-C5	-5.07	1.38	1.43
85	5	2856	G	C6-N1	-5.07	1.35	1.39
1	2	957	A	C6-N1	-5.07	1.32	1.35
36	1	280	U	C4'-C3'	-5.07	1.47	1.52
36	1	710	A	N7-C5	-5.07	1.36	1.39
36	1	772	U	N1-C2	-5.07	1.33	1.38
36	1	819	U	N1-C2	-5.07	1.33	1.38
36	1	2200	U	C2-N3	-5.07	1.34	1.37
36	1	2778	G	N3-C4	-5.07	1.31	1.35
36	1	3244	A	N3-C4	-5.07	1.31	1.34
37	3	73	C	C2-O2	5.07	1.29	1.24
80	6	9	U	N1-C6	-5.07	1.33	1.38
80	6	535	A	C5-C6	-5.07	1.36	1.41
85	5	835	G	C5-C4	-5.07	1.34	1.38
79	q3	59	CYS	CB-SG	-5.07	1.73	1.81
36	1	54	C	C5-C6	-5.07	1.30	1.34
36	1	228	U	N3-C4	-5.07	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2108	C	N3-C4	-5.07	1.30	1.33
85	5	660	A	N3-C4	-5.07	1.31	1.34
85	5	2981	U	N3-C4	-5.07	1.33	1.38
38	8	158	U	N1-C2	5.07	1.43	1.38
1	2	1097	G	N7-C5	-5.07	1.36	1.39
36	1	357	A	N9-C4	-5.07	1.34	1.37
36	1	649	A	C6-N1	-5.07	1.32	1.35
36	1	787	G	N9-C4	-5.07	1.33	1.38
36	1	1338	C	N1-C2	-5.07	1.35	1.40
36	1	1578	C	C5-C6	5.07	1.38	1.34
36	1	1705	U	N1-C2	5.07	1.43	1.38
37	3	67	G	N9-C4	-5.07	1.33	1.38
80	6	1011	G	N3-C4	-5.07	1.31	1.35
80	6	1024	U	N1-C6	-5.07	1.33	1.38
85	5	72	C	N1-C6	-5.07	1.34	1.37
85	5	658	G	N9-C4	-5.07	1.33	1.38
85	5	1103	A	C2-N3	5.07	1.38	1.33
85	5	1407	A	P-OP2	-5.07	1.40	1.49
85	5	1541	G	N3-C4	5.07	1.39	1.35
85	5	3048	A	N9-C8	-5.07	1.33	1.37
85	5	3215	A	N7-C5	-5.07	1.36	1.39
91	P	75	C	N3-C4	5.07	1.37	1.33
1	2	737	A	N3-C4	5.07	1.37	1.34
1	2	1449	G	N3-C4	5.07	1.39	1.35
36	1	1800	A	N7-C5	-5.07	1.36	1.39
36	1	2910	A	C8-N7	-5.07	1.28	1.31
36	1	2966	G	N9-C8	-5.07	1.34	1.37
80	6	164	A	N9-C4	-5.07	1.34	1.37
80	6	1199	G	N9-C4	-5.07	1.33	1.38
85	5	26	A	C3'-C2'	-5.07	1.47	1.52
85	5	1171	G	C2'-C1'	-5.07	1.47	1.53
85	5	2803	A	C5-C6	-5.07	1.36	1.41
85	5	3018	C	N3-C4	-5.07	1.30	1.33
36	1	607	A	N9-C8	-5.06	1.33	1.37
36	1	948	C	C5-C6	-5.06	1.30	1.34
36	1	1210	U	C2-N3	-5.06	1.34	1.37
36	1	1288	U	C2-N3	-5.06	1.34	1.37
1	2	164	A	N9-C4	-5.06	1.34	1.37
11	S9	158	PHE	C-N	-5.06	1.22	1.34
36	1	363	G	P-OP1	-5.06	1.40	1.49
36	1	1467	A	N1-C2	-5.06	1.29	1.34
36	1	2407	C	N3-C4	-5.06	1.30	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2632	G	N1-C2	-5.06	1.33	1.37
56	N0	97	VAL	CB-CG1	-5.06	1.42	1.52
80	6	506	A	C6-N1	5.06	1.39	1.35
80	6	1787	C	N1-C2	-5.06	1.35	1.40
85	5	514	G	C2-N3	-5.06	1.28	1.32
85	5	1213	G	N3-C4	-5.06	1.31	1.35
85	5	1250	G	O3'-P	5.06	1.67	1.61
85	5	2267	C	C4-N4	-5.06	1.29	1.33
85	5	2328	U	N1-C6	-5.06	1.33	1.38
85	5	3095	U	N1-C6	-5.06	1.33	1.38
44	17	87	VAL	CB-CG1	-5.06	1.42	1.52
47	m0	46	PHE	CB-CG	-5.06	1.42	1.51
36	1	950	G	C5-C4	-5.06	1.34	1.38
36	1	1294	A	C5-C4	-5.06	1.35	1.38
36	1	1498	A	N3-C4	-5.06	1.31	1.34
36	1	2147	A	C5-C6	-5.06	1.36	1.41
85	5	1254	C	O3'-P	5.06	1.67	1.61
85	5	2142	A	C6-N6	-5.06	1.29	1.33
38	8	61	A	N9-C8	-5.06	1.33	1.37
36	1	597	G	N1-C2	-5.06	1.33	1.37
36	1	2311	G	C6-N1	-5.06	1.36	1.39
36	1	2641	U	N1-C6	-5.06	1.33	1.38
36	1	2686	A	N3-C4	-5.06	1.31	1.34
36	1	2885	C	N1-C2	-5.06	1.35	1.40
67	O1	25	PHE	CB-CG	-5.06	1.42	1.51
80	6	228	G	N7-C5	5.06	1.42	1.39
80	6	1364	G	C6-N1	5.06	1.43	1.39
85	5	381	U	C2-N3	5.06	1.41	1.37
85	5	981	U	C5-C6	5.06	1.38	1.34
85	5	1377	G	C5-C4	-5.06	1.34	1.38
53	m7	21	TYR	CG-CD2	-5.06	1.32	1.39
36	1	363	G	N9-C8	-5.06	1.34	1.37
36	1	618	C	N3-C4	-5.06	1.30	1.33
36	1	847	A	C5-C4	-5.06	1.35	1.38
36	1	1058	U	N1-C6	-5.06	1.33	1.38
36	1	1421	G	C8-N7	-5.06	1.27	1.30
36	1	1491	A	N3-C4	-5.06	1.31	1.34
36	1	2409	G	N1-C2	-5.06	1.33	1.37
37	3	74	C	N1-C6	5.06	1.40	1.37
85	5	3053	G	C8-N7	-5.06	1.27	1.30
36	1	1301	A	N9-C4	-5.06	1.34	1.37
36	1	2729	U	N1-C2	-5.06	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2891	U	N1-C6	-5.06	1.33	1.38
53	M7	152	GLU	CB-CG	-5.06	1.42	1.52
80	6	526	A	C5-C6	-5.06	1.36	1.41
85	5	248	U	P-OP1	5.06	1.57	1.49
85	5	1104	G	C6-O6	-5.06	1.19	1.24
85	5	2743	A	N7-C5	-5.06	1.36	1.39
85	5	2855	U	O3'-P	-5.06	1.55	1.61
1	2	355	G	N9-C8	-5.05	1.34	1.37
1	2	1710	G	N7-C5	-5.05	1.36	1.39
36	1	135	C	C2-N3	5.05	1.39	1.35
36	1	559	A	N3-C4	-5.05	1.31	1.34
36	1	636	C	C2-O2	-5.05	1.20	1.24
36	1	1324	U	C2-N3	-5.05	1.34	1.37
36	1	2911	A	P-O5'	-5.05	1.54	1.59
38	4	10	A	N9-C8	-5.05	1.33	1.37
50	M4	63	VAL	CB-CG2	-5.05	1.42	1.52
85	5	2658	G	N7-C5	-5.05	1.36	1.39
85	5	3273	A	C6-N6	-5.05	1.29	1.33
85	5	3334	U	C4-O4	-5.05	1.19	1.23
46	19	186	PHE	CD1-CE1	-5.05	1.29	1.39
36	1	324	A	C6-N1	-5.05	1.32	1.35
36	1	2224	A	C5-C4	-5.05	1.35	1.38
36	1	2348	A	N7-C5	-5.05	1.36	1.39
36	1	2619	G	N9-C4	-5.05	1.33	1.38
85	5	2671	A	N9-C8	-5.05	1.33	1.37
85	5	2727	A	C5-C6	-5.05	1.36	1.41
85	5	2985	C	C5-C6	-5.05	1.30	1.34
41	14	252	GLU	CG-CD	5.05	1.59	1.51
36	1	971	G	C6-N1	-5.05	1.36	1.39
36	1	992	A	N7-C5	-5.05	1.36	1.39
36	1	1352	A	C8-N7	5.05	1.35	1.31
36	1	3000	A	C1'-N9	-5.05	1.39	1.46
85	5	1121	U	C4-O4	-5.05	1.19	1.23
85	5	2233	A	N9-C8	-5.05	1.33	1.37
85	5	2970	C	N1-C2	-5.05	1.35	1.40
1	2	1305	A	N3-C4	-5.05	1.31	1.34
36	1	1340	G	N3-C4	-5.05	1.31	1.35
36	1	1473	G	N9-C4	-5.05	1.33	1.38
36	1	1914	G	N3-C4	-5.05	1.31	1.35
36	1	2410	U	P-O5'	-5.05	1.54	1.59
36	1	3349	C	N3-C4	5.05	1.37	1.33
80	6	102	U	C4-C5	-5.05	1.39	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	758	U	C2-N3	-5.05	1.34	1.37
80	6	1644	C	N3-C4	-5.05	1.30	1.33
80	6	1673	G	N9-C8	-5.05	1.34	1.37
85	5	607	A	N9-C8	-5.05	1.33	1.37
85	5	3200	G	C6-O6	-5.05	1.19	1.24
85	5	3333	G	C6-N1	-5.05	1.36	1.39
36	1	36	C	N1-C6	-5.05	1.34	1.37
50	M4	40	ASP	CB-CG	-5.05	1.41	1.51
80	6	550	A	N7-C5	-5.05	1.36	1.39
85	5	374	A	C5-C6	-5.05	1.36	1.41
85	5	950	G	C6-N1	-5.05	1.36	1.39
85	5	2202	C	N1-C2	-5.05	1.35	1.40
85	5	2275	A	N1-C2	-5.05	1.29	1.34
85	5	3359	A	N9-C4	5.05	1.40	1.37
36	1	103	G	N3-C4	-5.05	1.31	1.35
36	1	335	G	C2-N3	-5.05	1.28	1.32
36	1	351	A	N9-C4	-5.05	1.34	1.37
36	1	818	C	C4-C5	-5.05	1.39	1.43
36	1	1368	U	C2-O2	-5.05	1.17	1.22
36	1	1585	C	N3-C4	5.05	1.37	1.33
36	1	2149	A	N9-C8	-5.05	1.33	1.37
36	1	3043	C	N3-C4	-5.05	1.30	1.33
36	1	3087	A	C3'-C2'	-5.05	1.47	1.52
44	L7	195	PHE	CB-CG	-5.05	1.42	1.51
80	6	78	A	N9-C8	-5.05	1.33	1.37
80	6	669	G	N3-C4	5.05	1.39	1.35
85	5	1318	A	C6-N6	-5.05	1.29	1.33
36	1	1587	A	P-O5'	-5.04	1.54	1.59
36	1	2962	U	N3-C4	-5.04	1.33	1.38
85	5	2828	G	N9-C8	-5.04	1.34	1.37
37	7	87	G	C5-C4	-5.04	1.34	1.38
36	1	1619	A	C6-N6	5.04	1.38	1.33
36	1	2347	U	C2-O2	-5.04	1.17	1.22
36	1	2397	A	N9-C8	-5.04	1.33	1.37
36	1	2871	G	P-OP2	-5.04	1.40	1.49
36	1	2889	C	N1-C2	5.04	1.45	1.40
36	1	2969	A	N9-C4	-5.04	1.34	1.37
36	1	3171	U	N3-C4	5.04	1.43	1.38
36	1	3372	A	C6-N1	-5.04	1.32	1.35
80	6	538	A	N3-C4	-5.04	1.31	1.34
85	5	613	G	N9-C4	-5.04	1.33	1.38
85	5	692	A	N7-C5	-5.04	1.36	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	2108	C	N1-C6	-5.04	1.34	1.37
85	5	2743	A	N9-C8	-5.04	1.33	1.37
1	2	240	U	P-O5'	5.04	1.64	1.59
1	2	881	A	N9-C4	5.04	1.40	1.37
36	1	1151	U	O3'-P	-5.04	1.55	1.61
36	1	1302	A	C5-C4	-5.04	1.35	1.38
36	1	1566	A	C6-N1	5.04	1.39	1.35
36	1	2355	G	C5-C6	-5.04	1.37	1.42
36	1	2959	C	N1-C2	-5.04	1.35	1.40
40	L3	84	VAL	CB-CG1	-5.04	1.42	1.52
85	5	170	G	N9-C4	5.04	1.42	1.38
85	5	714	G	N3-C4	-5.04	1.31	1.35
85	5	982	C	C4-C5	-5.04	1.39	1.43
85	5	1521	G	C5-C4	-5.04	1.34	1.38
85	5	3206	C	C4-C5	-5.04	1.39	1.43
38	8	150	G	C6-N1	-5.04	1.36	1.39
91	p	75	C	N3-C4	5.04	1.37	1.33
36	1	1875	G	C6-N1	-5.04	1.36	1.39
36	1	1928	G	C6-O6	-5.04	1.19	1.24
36	1	2974	U	N1-C6	-5.04	1.33	1.38
37	3	13	A	C5-C6	-5.04	1.36	1.41
38	4	70	G	C5'-C4'	-5.04	1.45	1.51
85	5	655	C	C4-N4	-5.04	1.29	1.33
85	5	1752	A	C5-C6	-5.04	1.36	1.41
36	1	329	U	C4-O4	-5.04	1.19	1.23
36	1	894	G	C5-C4	-5.04	1.34	1.38
36	1	1731	A	N3-C4	-5.04	1.31	1.34
36	1	1820	U	C3'-O3'	5.04	1.49	1.42
36	1	1868	G	N1-C2	-5.04	1.33	1.37
36	1	2984	C	C2-O2	-5.04	1.20	1.24
38	4	6	U	C2-O2	-5.04	1.17	1.22
38	4	36	G	P-OP1	-5.04	1.40	1.49
38	4	103	G	C2-N3	5.04	1.36	1.32
80	6	1321	A	N3-C4	-5.04	1.31	1.34
85	5	62	A	C5-C6	-5.04	1.36	1.41
85	5	682	U	N1-C6	-5.04	1.33	1.38
85	5	1919	G	C5-C4	-5.04	1.34	1.38
85	5	2889	C	N1-C6	-5.04	1.34	1.37
85	5	3382	U	N1-C6	5.04	1.42	1.38
37	7	78	U	C2-O2	-5.04	1.17	1.22
36	1	949	C	C4-C5	-5.04	1.39	1.43
36	1	1758	G	N9-C4	5.04	1.42	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	1	2679	A	O3'-P	-5.04	1.55	1.61
36	1	2991	A	C6-N6	5.04	1.38	1.33
41	L4	300	ARG	CG-CD	5.04	1.64	1.51
80	6	230	C	N1-C6	5.04	1.40	1.37
85	5	42	C	N1-C6	-5.04	1.34	1.37
85	5	172	G	C5-C4	5.04	1.41	1.38
85	5	1112	A	N9-C8	-5.04	1.33	1.37
85	5	1713	G	C6-N1	-5.04	1.36	1.39
1	2	145	A	C6-N1	-5.04	1.32	1.35
1	2	1413	U	C2-N3	-5.04	1.34	1.37
1	2	1643	A	C5-C4	-5.04	1.35	1.38
36	1	981	U	C5-C6	5.04	1.38	1.34
36	1	1916	U	C2-N3	-5.04	1.34	1.37
36	1	2589	G	N3-C4	-5.04	1.31	1.35
38	4	15	G	N7-C5	-5.04	1.36	1.39
80	6	1265	G	N7-C5	5.04	1.42	1.39
85	5	628	A	N9-C8	-5.04	1.33	1.37
85	5	854	G	C8-N7	-5.04	1.27	1.30
85	5	1209	G	N9-C8	-5.04	1.34	1.37
85	5	2348	A	N9-C4	-5.04	1.34	1.37
85	5	2826	U	O3'-P	-5.04	1.55	1.61
85	5	2828	G	N1-C2	-5.04	1.33	1.37
85	5	2891	U	P-O5'	-5.04	1.54	1.59
85	5	3313	U	N3-C4	-5.04	1.33	1.38
36	1	3367	C	C2-N3	-5.03	1.31	1.35
44	L7	214	TRP	CE3-CZ3	-5.03	1.29	1.38
80	6	78	A	N9-C4	-5.03	1.34	1.37
85	5	2934	A	N1-C2	-5.03	1.29	1.34
85	5	3055	U	N1-C6	-5.03	1.33	1.38
36	1	1387	G	N7-C5	-5.03	1.36	1.39
36	1	1871	U	C2-O2	-5.03	1.17	1.22
36	1	2250	G	N9-C8	-5.03	1.34	1.37
80	6	1091	A	O3'-P	5.03	1.67	1.61
85	5	784	A	C6-N1	-5.03	1.32	1.35
85	5	2383	C	C2-N3	-5.03	1.31	1.35
48	m1	127	PHE	CD2-CE2	-5.03	1.29	1.39
51	m5	132	VAL	CB-CG2	-5.03	1.42	1.52
36	1	419	G	N9-C4	-5.03	1.33	1.38
36	1	645	A	C5-C6	5.03	1.45	1.41
36	1	795	G	C6-O6	5.03	1.28	1.24
36	1	3276	G	N9-C8	5.03	1.41	1.37
80	6	20	G	N3-C4	-5.03	1.31	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	222	A	N9-C4	5.03	1.40	1.37
80	6	279	G	N1-C2	5.03	1.41	1.37
80	6	537	G	C5-C6	-5.03	1.37	1.42
3	s1	117	TRP	CB-CG	-5.03	1.41	1.50
85	5	935	U	C2-N3	-5.03	1.34	1.37
85	5	1839	A	C6-N6	-5.03	1.29	1.33
85	5	1892	G	C4'-C3'	-5.03	1.47	1.52
85	5	2638	C	N1-C2	-5.03	1.35	1.40
85	5	2932	U	C2-O2	-5.03	1.17	1.22
85	5	3336	A	N7-C5	-5.03	1.36	1.39
85	5	680	G	N1-C2	-5.03	1.33	1.37
85	5	815	G	C2-N2	-5.03	1.29	1.34
85	5	2379	U	C3'-C2'	-5.03	1.47	1.52
1	2	1329	A	N9-C4	5.03	1.40	1.37
8	S6	122	GLU	CG-CD	5.03	1.59	1.51
36	1	134	U	C2-O2	5.03	1.26	1.22
36	1	870	G	N3-C4	-5.03	1.31	1.35
36	1	1392	G	N3-C4	-5.03	1.31	1.35
36	1	1392	G	N1-C2	-5.03	1.33	1.37
36	1	3161	C	N3-C4	5.03	1.37	1.33
56	N0	59	VAL	CB-CG1	-5.03	1.42	1.52
80	6	1318	G	N9-C4	-5.03	1.33	1.38
85	5	394	G	C6-O6	5.03	1.28	1.24
85	5	2131	A	N7-C5	-5.03	1.36	1.39
85	5	2395	G	N1-C2	-5.03	1.33	1.37
38	8	22	U	C4-O4	-5.03	1.19	1.23
68	o2	99	ASN	CB-CG	-5.03	1.39	1.51
1	2	1542	A	C5-C6	-5.03	1.36	1.41
36	1	35	A	P-OP1	-5.03	1.40	1.49
36	1	214	G	N9-C8	-5.03	1.34	1.37
80	6	86	A	C6-N1	-5.03	1.32	1.35
80	6	977	A	C5-C6	-5.03	1.36	1.41
80	6	983	A	N7-C5	-5.03	1.36	1.39
85	5	368	G	N9-C8	-5.03	1.34	1.37
85	5	968	G	C5-C4	-5.03	1.34	1.38
85	5	1139	G	C2-N2	-5.03	1.29	1.34
85	5	1764	U	N3-C4	5.03	1.43	1.38
38	8	34	U	N1-C6	-5.03	1.33	1.38
38	8	107	G	N7-C5	-5.03	1.36	1.39
36	1	198	A	C5-C6	-5.02	1.36	1.41
36	1	367	A	C5-C4	-5.02	1.35	1.38
44	L7	203	TRP	C-N	-5.02	1.24	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	119	A	C5-C6	-5.02	1.36	1.41
85	5	1301	A	N9-C8	-5.02	1.33	1.37
1	2	1541	U	C4-O4	-5.02	1.19	1.23
36	1	432	G	N9-C8	-5.02	1.34	1.37
36	1	1805	C	C2-O2	-5.02	1.20	1.24
38	4	79	A	C2-N3	5.02	1.38	1.33
80	6	148	A	N3-C4	-5.02	1.31	1.34
80	6	157	A	N3-C4	-5.02	1.31	1.34
80	6	315	A	C5-C4	-5.02	1.35	1.38
80	6	449	C	C2-O2	-5.02	1.20	1.24
28	d6	23	CYS	CB-SG	-5.02	1.73	1.81
85	5	189	G	C6-O6	-5.02	1.19	1.24
85	5	275	U	C2-O2	-5.02	1.17	1.22
85	5	510	G	C2-N3	-5.02	1.28	1.32
85	5	1455	U	C4-O4	-5.02	1.19	1.23
85	5	1591	G	C6-O6	5.02	1.28	1.24
85	5	2730	G	C5-C6	-5.02	1.37	1.42
1	2	337	G	N7-C5	-5.02	1.36	1.39
1	2	959	G	C6-N1	-5.02	1.36	1.39
1	2	1786	G	C6-N1	5.02	1.43	1.39
36	1	1079	A	N7-C5	-5.02	1.36	1.39
80	6	1132	A	N9-C4	-5.02	1.34	1.37
80	6	1324	G	P-OP2	5.02	1.57	1.49
85	5	353	G	N7-C5	-5.02	1.36	1.39
85	5	2271	A	C5-C4	-5.02	1.35	1.38
85	5	2895	G	N9-C4	-5.02	1.33	1.38
38	8	13	A	N1-C2	-5.02	1.29	1.34
1	2	1128	U	N1-C2	-5.02	1.34	1.38
36	1	1343	A	O3'-P	-5.02	1.55	1.61
36	1	2223	A	N9-C4	-5.02	1.34	1.37
80	6	1388	A	N3-C4	-5.02	1.31	1.34
85	5	2338	C	C4'-C3'	-5.02	1.47	1.52
85	5	2889	C	P-OP1	-5.02	1.40	1.49
57	n1	63	VAL	CB-CG2	-5.02	1.42	1.52
36	1	275	U	C4-O4	5.02	1.27	1.23
36	1	384	A	C6-N6	-5.02	1.29	1.33
36	1	390	G	C5-C6	-5.02	1.37	1.42
36	1	862	U	C4-C5	-5.02	1.39	1.43
36	1	889	U	C5-C6	-5.02	1.29	1.34
36	1	2401	A	C5-C4	5.02	1.42	1.38
36	1	2681	U	C2-O2	-5.02	1.17	1.22
36	1	2886	U	N3-C4	5.02	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
80	6	448	C	C2-N3	-5.02	1.31	1.35
80	6	952	A	C6-N1	-5.02	1.32	1.35
85	5	282	G	C5-C6	-5.02	1.37	1.42
85	5	727	G	P-O5'	-5.02	1.54	1.59
85	5	1439	U	C2-N3	-5.02	1.34	1.37
85	5	1536	G	N7-C5	-5.02	1.36	1.39
85	5	2121	G	N3-C4	-5.02	1.31	1.35
85	5	3081	C	C2-O2	-5.02	1.20	1.24
47	m0	46	PHE	CD1-CE1	-5.02	1.29	1.39
67	o1	64	VAL	CB-CG1	-5.02	1.42	1.52
36	1	1696	A	C6-N1	-5.02	1.32	1.35
36	1	2658	G	C5-C4	-5.02	1.34	1.38
36	1	2759	U	N1-C6	-5.02	1.33	1.38
38	4	21	C	C4'-C3'	-5.02	1.47	1.52
80	6	16	G	N7-C5	-5.02	1.36	1.39
36	1	867	G	C2-N2	-5.01	1.29	1.34
36	1	2873	U	N1-C2	-5.01	1.34	1.38
85	5	1404	G	N9-C8	-5.01	1.34	1.37
85	5	2133	U	N3-C4	-5.01	1.33	1.38
85	5	2691	A	C5-C6	-5.01	1.36	1.41
85	5	3097	C	C2-N3	-5.01	1.31	1.35
40	l3	154	TYR	CD1-CE1	-5.01	1.31	1.39
1	2	878	G	C5-C4	5.01	1.41	1.38
36	1	439	C	C2-O2	5.01	1.28	1.24
36	1	1833	G	N9-C8	-5.01	1.34	1.37
36	1	2174	G	N1-C2	-5.01	1.33	1.37
38	4	72	A	C5-C6	-5.01	1.36	1.41
80	6	119	A	N7-C5	-5.01	1.36	1.39
85	5	345	G	C5-C6	-5.01	1.37	1.42
85	5	947	G	C5-C6	-5.01	1.37	1.42
85	5	2360	C	P-OP2	-5.01	1.40	1.49
38	8	109	A	C6-N1	-5.01	1.32	1.35
1	2	600	U	C2-N3	-5.01	1.34	1.37
1	2	1612	G	N3-C4	-5.01	1.31	1.35
36	1	1296	C	N3-C4	-5.01	1.30	1.33
36	1	2127	U	C2-N3	-5.01	1.34	1.37
36	1	2584	G	C6-N1	-5.01	1.36	1.39
80	6	544	A	N7-C5	5.01	1.42	1.39
80	6	1081	A	N1-C2	5.01	1.38	1.34
85	5	441	U	O3'-P	5.01	1.67	1.61
85	5	1169	A	N3-C4	-5.01	1.31	1.34
85	5	2190	U	C2-N3	-5.01	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	l2	143	GLU	CD-OE2	5.01	1.31	1.25
54	m8	96	PHE	C-N	-5.01	1.24	1.34
36	1	2346	C	N3-C4	-5.01	1.30	1.33
36	1	3217	C	N3-C4	-5.01	1.30	1.33
80	6	278	U	N1-C2	5.01	1.43	1.38
80	6	1784	C	N1-C6	-5.01	1.34	1.37
85	5	632	G	N9-C8	-5.01	1.34	1.37
85	5	807	A	N7-C5	-5.01	1.36	1.39
85	5	1022	U	N1-C6	5.01	1.42	1.38
85	5	2928	C	O3'-P	-5.01	1.55	1.61
85	5	2940	A	N9-C4	-5.01	1.34	1.37
40	l3	6	TYR	CE1-CZ	-5.01	1.32	1.38
36	1	708	G	N9-C8	-5.01	1.34	1.37
36	1	1291	A	N7-C5	-5.01	1.36	1.39
36	1	2919	A	C6-N1	-5.01	1.32	1.35
85	5	220	G	N3-C4	-5.01	1.31	1.35
85	5	3329	U	N1-C2	-5.01	1.34	1.38
36	1	967	A	C4'-C3'	-5.01	1.47	1.52
36	1	1667	A	C6-N1	-5.01	1.32	1.35
36	1	1881	A	C5-C4	-5.01	1.35	1.38
85	5	94	G	C8-N7	-5.01	1.27	1.30
85	5	1001	G	C5-C6	5.01	1.47	1.42
85	5	1104	G	N1-C2	-5.01	1.33	1.37
85	5	2811	A	N3-C4	-5.01	1.31	1.34
85	5	2885	C	C5-C6	-5.01	1.30	1.34
44	l7	235	PHE	CG-CD2	-5.01	1.31	1.38
61	n5	123	TYR	CD1-CE1	-5.01	1.31	1.39
36	1	1181	U	C2-O2	-5.00	1.17	1.22
85	5	1132	C	N1-C2	-5.00	1.35	1.40
36	1	61	A	C6-N6	-5.00	1.29	1.33
36	1	213	A	C5-C4	-5.00	1.35	1.38
36	1	395	A	N3-C4	-5.00	1.31	1.34
36	1	498	A	N3-C4	-5.00	1.31	1.34
36	1	515	C	N3-C4	5.00	1.37	1.33
36	1	742	G	N9-C8	5.00	1.41	1.37
36	1	973	A	N3-C4	-5.00	1.31	1.34
36	1	1100	U	C2-O2	-5.00	1.17	1.22
36	1	1484	U	C4-O4	-5.00	1.19	1.23
36	1	2297	U	N3-C4	-5.00	1.33	1.38
36	1	2786	G	N1-C2	-5.00	1.33	1.37
80	6	3	U	N1-C6	-5.00	1.33	1.38
80	6	656	G	C6-N1	5.00	1.43	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	5	557	A	N3-C4	-5.00	1.31	1.34
85	5	2134	G	C4'-C3'	-5.00	1.47	1.52
85	5	2593	A	N7-C5	-5.00	1.36	1.39
85	5	2763	U	C4-C5	-5.00	1.39	1.43
85	5	3271	G	C2-N3	5.00	1.36	1.32
36	1	815	G	N7-C5	-5.00	1.36	1.39
36	1	1528	G	N1-C2	-5.00	1.33	1.37
36	1	2108	C	C2-N3	-5.00	1.31	1.35
36	1	2385	G	P-O5'	-5.00	1.54	1.59
36	1	3102	G	N3-C4	-5.00	1.31	1.35
36	1	3130	A	N9-C8	-5.00	1.33	1.37
80	6	576	G	N7-C5	-5.00	1.36	1.39
85	5	327	A	N1-C2	-5.00	1.29	1.34
85	5	1712	G	C5-C6	-5.00	1.37	1.42
85	5	2850	G	C6-O6	5.00	1.28	1.24

All (45668) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2707	C	N3-C4-C5	-50.63	101.65	121.90
80	6	54	C	N3-C4-C5	-49.41	102.13	121.90
80	6	1070	C	N3-C4-C5	-42.39	104.94	121.90
80	6	818	C	N3-C4-C5	-42.29	104.98	121.90
80	6	1498	G	C5-N7-C8	-42.11	83.24	104.30
85	5	748	U	N3-C4-C5	-38.17	91.70	114.60
85	5	1935	G	C5-N7-C8	-35.76	86.42	104.30
85	5	2707	C	C6-N1-C2	-35.67	106.03	120.30
85	5	2989	U	O5'-P-OP2	-34.95	68.76	110.70
80	6	1051	G	C5-N7-C8	-33.82	87.39	104.30
80	6	1673	G	C5-C6-N1	-33.06	94.97	111.50
37	7	63	A	C5-C6-N1	-32.73	101.33	117.70
80	6	420	A	C5-C6-N1	-32.52	101.44	117.70
80	6	1498	G	N7-C8-N9	32.50	129.35	113.10
85	5	2208	A	C5-C6-N1	-32.24	101.58	117.70
85	5	2603	G	C5-N7-C8	-32.06	88.27	104.30
85	5	2751	G	C5-N7-C8	-32.00	88.30	104.30
85	5	1662	G	C5-C6-N1	-31.87	95.56	111.50
85	5	3239	G	C5-N7-C8	-31.19	88.70	104.30
80	6	122	U	C4-C5-C6	-30.76	101.24	119.70
80	6	1498	G	C4-C5-N7	30.31	122.92	110.80
85	5	383	G	C5-C6-N1	-30.29	96.35	111.50
85	5	2964	G	N1-C6-O6	-30.23	101.76	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1649	G	C5-N7-C8	-30.13	89.23	104.30
80	6	423	G	C5-N7-C8	-30.05	89.27	104.30
85	5	2124	G	C5-C6-N1	-29.93	96.53	111.50
85	5	777	U	C4-C5-C6	-29.89	101.76	119.70
80	6	1155	G	C5-N7-C8	-29.75	89.42	104.30
85	5	748	U	C6-N1-C2	-29.60	103.24	121.00
80	6	1109	G	C5-N7-C8	-29.07	89.77	104.30
85	5	774	G	C5-C6-N1	-28.98	97.01	111.50
80	6	1070	C	C6-N1-C2	-28.63	108.85	120.30
80	6	1051	G	N7-C8-N9	28.54	127.37	113.10
36	1	672	A	C2-N3-C4	-28.39	96.41	110.60
85	5	3327	G	C5-C6-N1	-28.32	97.34	111.50
85	5	1133	A	N1-C6-N6	28.12	135.47	118.60
85	5	2603	G	N7-C8-N9	28.10	127.15	113.10
85	5	2751	G	N7-C8-N9	28.02	127.11	113.10
85	5	1772	U	N3-C4-C5	-27.99	97.81	114.60
85	5	1413	G	C5-N7-C8	-27.79	90.41	104.30
36	1	640	U	N1-C2-N3	27.67	131.50	114.90
85	5	1935	G	C4-C5-N7	27.55	121.82	110.80
80	6	204	G	C5-N7-C8	-27.53	90.53	104.30
85	5	1149	G	C8-N9-C4	-27.39	95.44	106.40
80	6	347	G	C5-C6-N1	-27.39	97.81	111.50
80	6	1672	G	C5-N7-C8	-26.91	90.84	104.30
85	5	2707	C	N1-C2-O2	-26.85	102.79	118.90
85	5	2417	U	N3-C4-C5	-26.70	98.58	114.60
85	5	2877	G	C5-N7-C8	-26.58	91.01	104.30
80	6	1673	G	C4-C5-N7	-26.50	100.20	110.80
91	p	74	C	O5'-P-OP2	-26.44	78.97	110.70
85	5	1935	G	N7-C8-N9	26.33	126.27	113.10
85	5	2877	G	N7-C8-N9	26.32	126.26	113.10
85	5	2724	U	N3-C4-C5	-26.18	98.89	114.60
85	5	1542	G	C5-N7-C8	-26.17	91.21	104.30
37	7	65	G	O5'-P-OP1	-26.02	79.48	110.70
80	6	1353	U	C4-C5-C6	-25.79	104.23	119.70
36	1	921	A	N1-C6-N6	-25.66	103.20	118.60
85	5	1149	G	C5-N7-C8	-25.65	91.48	104.30
85	5	963	G	O5'-P-OP2	-25.53	80.06	110.70
36	1	585	A	C2-N3-C4	-25.50	97.85	110.60
85	5	1133	A	C5-C6-N1	-25.50	104.95	117.70
80	6	1109	G	N7-C8-N9	25.46	125.83	113.10
80	6	122	U	C5-C6-N1	25.27	135.34	122.70
85	5	3239	G	C4-C5-N7	25.10	120.84	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1165	A	C2-N3-C4	-24.89	98.15	110.60
85	5	2850	G	N1-C6-O6	24.89	134.83	119.90
80	6	1294	G	C5-N7-C8	-24.87	91.86	104.30
85	5	2283	G	N1-C6-O6	24.83	134.80	119.90
85	5	1149	G	N7-C8-N9	24.80	125.50	113.10
80	6	264	G	C5-N7-C8	-24.70	91.95	104.30
80	6	678	A	C5-N7-C8	-24.58	91.61	103.90
36	1	267	G	N1-C6-O6	24.53	134.62	119.90
85	5	777	U	C5-C6-N1	24.42	134.91	122.70
36	1	645	A	N1-C6-N6	-24.41	103.95	118.60
36	1	59	G	N1-C6-O6	24.38	134.53	119.90
36	1	645	A	N9-C4-C5	24.35	115.54	105.80
80	6	1293	U	C4-C5-C6	-24.33	105.10	119.70
85	5	1661	G	C5-N7-C8	-24.32	92.14	104.30
37	7	100	C	C6-N1-C2	24.24	130.00	120.30
36	1	645	A	C6-N1-C2	-24.23	104.06	118.60
80	6	678	A	N7-C8-N9	24.05	125.83	113.80
85	5	1889	G	C5-C6-O6	-24.02	114.19	128.60
85	5	3050	U	N3-C2-O2	-24.01	105.39	122.20
85	5	2857	C	OP1-P-OP2	-24.00	83.59	119.60
37	7	85	G	N1-C6-O6	24.00	134.30	119.90
80	6	1498	G	C8-N9-C4	-23.82	96.87	106.40
80	6	1143	A	C5-N7-C8	-23.80	92.00	103.90
85	5	2663	G	N1-C6-O6	23.73	134.14	119.90
85	5	693	A	O5'-P-OP1	-23.71	82.24	110.70
80	6	423	G	N7-C8-N9	23.69	124.94	113.10
85	5	1375	G	C5-C6-N1	-23.55	99.72	111.50
85	5	2273	G	C5-C6-O6	23.51	142.71	128.60
80	6	1213	G	N1-C6-O6	23.50	134.00	119.90
80	6	1107	G	O5'-P-OP2	-23.48	82.53	110.70
85	5	1897	G	N1-C6-O6	23.48	133.99	119.90
80	6	1051	G	C4-C5-N7	23.40	120.16	110.80
85	5	2376	G	N7-C8-N9	23.34	124.77	113.10
36	1	1433	A	C8-N9-C4	-23.34	96.47	105.80
85	5	2406	C	N3-C4-C5	-23.33	112.57	121.90
80	6	469	C	C6-N1-C2	23.31	129.62	120.30
36	1	957	C	N1-C2-O2	-23.27	104.94	118.90
85	5	2964	G	C5-C6-O6	23.22	142.53	128.60
36	1	808	A	C5-C6-N1	23.19	129.29	117.70
85	5	1281	G	C5-N7-C8	-23.18	92.71	104.30
85	5	1805	C	C6-N1-C2	23.05	129.52	120.30
36	1	2636	A	C8-N9-C4	-23.04	96.58	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2888	U	C5-C4-O4	-23.02	112.09	125.90
80	6	871	G	C5-C6-N1	-23.00	100.00	111.50
80	6	420	A	C4-C5-C6	22.98	128.49	117.00
36	1	2972	G	C5-C6-O6	-22.97	114.82	128.60
36	1	928	C	C2-N3-C4	-22.96	108.42	119.90
80	6	1649	G	N7-C8-N9	22.91	124.56	113.10
80	6	1051	G	C8-N9-C4	-22.85	97.26	106.40
36	1	307	A	N1-C6-N6	-22.80	104.92	118.60
36	1	2873	U	N1-C2-N3	22.75	128.55	114.90
36	1	796	U	N1-C2-N3	22.67	128.50	114.90
36	1	3000	A	C8-N9-C4	22.61	114.84	105.80
85	5	3245	A	C2-N3-C4	-22.60	99.30	110.60
85	5	2707	C	N3-C4-N4	22.60	133.82	118.00
85	5	748	U	C5-C4-O4	22.59	139.45	125.90
85	5	1124	U	N3-C4-C5	-22.55	101.07	114.60
36	1	921	A	C5-C6-N1	22.55	128.97	117.70
36	1	435	C	C6-N1-C2	22.54	129.32	120.30
85	5	748	U	C2-N3-C4	22.54	140.52	127.00
80	6	410	A	O5'-P-OP2	-22.53	83.67	110.70
85	5	826	G	N1-C6-O6	22.53	133.42	119.90
80	6	871	G	N1-C6-O6	22.51	133.41	119.90
36	1	427	C	N1-C2-O2	-22.48	105.41	118.90
85	5	2376	G	C5-N7-C8	-22.46	93.07	104.30
85	5	2707	C	C5-C6-N1	22.37	132.18	121.00
85	5	2142	A	N1-C6-N6	-22.26	105.24	118.60
85	5	751	A	O5'-P-OP2	-22.25	84.00	110.70
85	5	425	G	C2-N3-C4	-22.25	100.78	111.90
85	5	2707	C	C2-N3-C4	22.25	131.02	119.90
36	1	942	U	N3-C4-C5	-22.22	101.27	114.60
85	5	721	G	N1-C6-O6	22.22	133.23	119.90
85	5	2656	A	C2-N3-C4	-22.20	99.50	110.60
85	5	2156	C	C6-N1-C2	22.19	129.18	120.30
85	5	2751	G	C4-C5-N7	22.16	119.66	110.80
36	1	702	C	C6-N1-C2	-22.11	111.46	120.30
85	5	2417	U	N3-C4-O4	22.11	134.87	119.40
36	1	967	A	C2-N3-C4	-22.09	99.55	110.60
36	1	1364	C	N3-C4-C5	22.09	130.73	121.90
37	7	45	A	N1-C6-N6	-22.08	105.35	118.60
85	5	1661	G	N7-C8-N9	21.98	124.09	113.10
85	5	2416	U	O5'-P-OP2	-21.98	84.33	110.70
85	5	2821	C	N1-C2-O2	-21.97	105.72	118.90
85	5	1862	U	N3-C4-C5	-21.95	101.43	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	798	G	N1-C6-O6	21.95	133.07	119.90
85	5	2725	U	N3-C4-C5	-21.95	101.43	114.60
80	6	1155	G	N7-C8-N9	21.94	124.07	113.10
85	5	1542	G	C4-C5-N7	21.93	119.57	110.80
80	6	54	C	C4-C5-C6	21.85	128.32	117.40
85	5	963	G	N1-C6-O6	-21.84	106.79	119.90
80	6	54	C	C6-N1-C2	-21.78	111.59	120.30
85	5	2319	U	N3-C4-C5	-21.76	101.54	114.60
36	1	2971	A	C8-N9-C4	-21.76	97.10	105.80
85	5	870	G	C5-N7-C8	-21.73	93.43	104.30
36	1	921	A	C6-N1-C2	-21.71	105.58	118.60
80	6	1143	A	N7-C8-N9	21.68	124.64	113.80
80	6	1649	G	C4-C5-N7	21.66	119.46	110.80
36	1	1904	C	C6-N1-C2	-21.61	111.66	120.30
36	1	802	C	C6-N1-C2	-21.60	111.66	120.30
85	5	1934	G	N1-C6-O6	21.59	132.85	119.90
38	8	3	A	O5'-P-OP2	21.58	136.59	110.70
85	5	2296	A	N1-C6-N6	-21.56	105.66	118.60
38	4	14	C	C6-N1-C2	21.54	128.92	120.30
85	5	1390	A	N1-C6-N6	-21.51	105.69	118.60
85	5	1413	G	N7-C8-N9	21.51	123.85	113.10
80	6	423	G	C8-N9-C4	-21.49	97.80	106.40
36	1	3275	U	C5-C6-N1	21.48	133.44	122.70
85	5	41	G	O5'-P-OP2	-21.45	84.96	110.70
85	5	2603	G	C4-C5-N7	21.43	119.37	110.80
85	5	2405	C	N3-C2-O2	-21.42	106.91	121.90
36	1	703	G	N1-C6-O6	-21.38	107.07	119.90
80	6	1155	G	C4-C5-N7	21.37	119.35	110.80
85	5	2603	G	C8-N9-C4	-21.33	97.87	106.40
85	5	2775	U	C5-C6-N1	-21.30	112.05	122.70
85	5	2403	G	N1-C6-O6	21.29	132.68	119.90
36	1	609	G	C5-C6-O6	-21.28	115.83	128.60
80	6	204	G	N7-C8-N9	21.24	123.72	113.10
85	5	2724	U	C6-N1-C2	-21.24	108.26	121.00
85	5	407	A	C8-N9-C4	-21.20	97.32	105.80
85	5	3089	C	C6-N1-C2	-21.19	111.82	120.30
80	6	347	G	N1-C6-O6	21.19	132.61	119.90
85	5	918	C	N3-C2-O2	21.16	136.71	121.90
85	5	2944	U	C5-C4-O4	21.15	138.59	125.90
80	6	818	C	C6-N1-C2	-21.15	111.84	120.30
85	5	3239	G	N7-C8-N9	21.13	123.67	113.10
36	1	1337	A	O5'-P-OP2	-21.12	85.35	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	508	U	N3-C4-C5	-21.12	101.93	114.60
85	5	2877	G	C8-N9-C4	-21.08	97.97	106.40
80	6	818	C	N3-C4-N4	21.04	132.73	118.00
85	5	1133	A	C4-C5-C6	21.03	127.52	117.00
36	1	672	A	C5-C6-N1	-21.03	107.19	117.70
85	5	283	G	C5-C6-O6	-20.98	116.01	128.60
36	1	585	A	C5-C6-N1	-20.98	107.21	117.70
85	5	1413	G	C4-C5-N7	20.96	119.19	110.80
36	1	1389	G	C5-C6-O6	-20.96	116.03	128.60
80	6	1417	A	O5'-P-OP2	20.95	135.84	110.70
85	5	2368	A	C8-N9-C4	-20.94	97.42	105.80
85	5	3161	C	C6-N1-C2	-20.89	111.94	120.30
80	6	1353	U	C5-C6-N1	20.84	133.12	122.70
36	1	641	C	C6-N1-C2	-20.82	111.97	120.30
36	1	2758	A	C8-N9-C4	20.78	114.11	105.80
85	5	508	U	C6-N1-C2	-20.78	108.53	121.00
85	5	915	A	O5'-P-OP1	-20.75	85.80	110.70
85	5	3039	C	N1-C2-O2	-20.75	106.45	118.90
85	5	2742	C	C6-N1-C2	20.73	128.59	120.30
85	5	2751	G	C8-N9-C4	-20.70	98.12	106.40
1	2	630	A	C8-N9-C4	20.69	114.08	105.80
85	5	2732	G	C5-C6-N1	-20.69	101.16	111.50
85	5	941	G	C5-C6-N1	20.66	121.83	111.50
37	7	85	G	C6-C5-N7	-20.63	118.02	130.40
85	5	2610	G	N1-C6-O6	20.61	132.26	119.90
85	5	2163	C	C6-N1-C2	-20.57	112.07	120.30
36	1	3367	C	C6-N1-C2	20.57	128.53	120.30
36	1	645	A	C5-C6-N1	20.54	127.97	117.70
85	5	2192	C	N3-C4-C5	-20.54	113.69	121.90
80	6	1131	A	C8-N9-C4	-20.51	97.60	105.80
85	5	1149	G	C5-C6-O6	-20.49	116.31	128.60
36	1	645	A	C2-N3-C4	20.48	120.84	110.60
36	1	2889	C	N1-C2-O2	20.45	131.17	118.90
85	5	101	G	O5'-P-OP2	-20.38	86.24	110.70
85	5	813	G	N1-C6-O6	20.38	132.12	119.90
85	5	2724	U	C4-C5-C6	20.37	131.92	119.70
85	5	2354	C	N3-C4-C5	-20.36	113.76	121.90
80	6	54	C	C2-N3-C4	20.34	130.07	119.90
85	5	330	G	C5-N7-C8	-20.34	94.13	104.30
85	5	2801	A	C5-C6-N1	20.32	127.86	117.70
85	5	798	G	C6-C5-N7	-20.28	118.23	130.40
85	5	813	G	C5-C6-O6	-20.28	116.43	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1070	C	C4-C5-C6	20.26	127.53	117.40
85	5	3308	C	O5'-P-OP2	-20.26	86.39	110.70
80	6	423	G	C4-C5-N7	20.17	118.87	110.80
85	5	1433	A	C8-N9-C4	-20.15	97.74	105.80
85	5	1662	G	C4-C5-N7	-20.14	102.74	110.80
37	7	85	G	C5-C6-O6	-20.14	116.52	128.60
36	1	54	C	C6-N1-C2	20.13	128.35	120.30
85	5	2300	G	N1-C6-O6	-20.13	107.82	119.90
85	5	2318	U	N3-C4-C5	-20.12	102.53	114.60
80	6	1109	G	C8-N9-C4	-20.08	98.37	106.40
85	5	734	C	C6-N1-C2	20.07	128.33	120.30
85	5	2288	G	N1-C2-N3	20.05	135.93	123.90
85	5	3089	C	N3-C4-C5	-20.04	113.89	121.90
36	1	1198	C	C6-N1-C2	-20.04	112.28	120.30
36	1	3362	A	N1-C6-N6	20.01	130.61	118.60
36	1	645	A	N3-C4-C5	-20.01	112.80	126.80
80	6	565	C	C5-C4-N4	20.00	134.20	120.20
85	5	2715	A	C8-N9-C4	-20.00	97.80	105.80
36	1	672	A	N1-C6-N6	20.00	130.60	118.60
85	5	358	G	C2-N3-C4	-19.99	101.91	111.90
85	5	2273	G	C5-C6-N1	-19.97	101.52	111.50
80	6	54	C	N3-C4-N4	19.97	131.98	118.00
38	4	144	G	C4-C5-N7	-19.94	102.82	110.80
80	6	1294	G	C4-C5-N7	19.94	118.78	110.80
36	1	942	U	C4-C5-C6	19.93	131.66	119.70
36	1	2889	C	N3-C2-O2	-19.87	107.99	121.90
36	1	2991	A	C5-C6-N1	-19.86	107.77	117.70
38	8	110	C	C6-N1-C2	-19.84	112.36	120.30
85	5	1444	G	N1-C6-O6	19.80	131.78	119.90
36	1	197	G	C4-C5-N7	19.76	118.70	110.80
85	5	1934	G	C5-C6-N1	-19.75	101.62	111.50
38	4	52	A	N1-C6-N6	-19.72	106.77	118.60
80	6	1214	U	N3-C4-O4	19.71	133.20	119.40
1	2	1436	G	C8-N9-C4	19.71	114.28	106.40
36	1	676	G	C8-N9-C4	-19.70	98.52	106.40
80	6	204	G	C4-C5-N7	19.67	118.67	110.80
36	1	1375	G	C5-C6-N1	-19.67	101.67	111.50
37	7	63	A	C4-C5-C6	19.66	126.83	117.00
36	1	2760	C	C6-N1-C2	19.66	128.16	120.30
36	1	3275	U	C2-N3-C4	19.64	138.78	127.00
36	1	2991	A	N1-C6-N6	19.63	130.38	118.60
36	1	2419	A	O5'-P-OP1	-19.60	87.18	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	645	A	C8-N9-C4	-19.59	97.97	105.80
36	1	580	C	C6-N1-C2	-19.59	112.47	120.30
85	5	591	G	N1-C6-O6	19.56	131.64	119.90
85	5	2968	G	N1-C6-O6	-19.55	108.17	119.90
85	5	1897	G	C6-C5-N7	-19.55	118.67	130.40
80	6	420	A	N1-C6-N6	19.55	130.33	118.60
85	5	1753	G	N1-C6-O6	19.55	131.63	119.90
36	1	397	A	N1-C6-N6	-19.54	106.88	118.60
80	6	1294	G	N7-C8-N9	19.54	122.87	113.10
36	1	1435	A	C8-N9-C4	-19.54	97.99	105.80
36	1	1115	G	C2-N3-C4	-19.51	102.14	111.90
36	1	283	G	C4-C5-N7	19.51	118.60	110.80
36	1	2811	A	C8-N9-C4	-19.49	98.00	105.80
38	4	116	G	C8-N9-C4	19.48	114.19	106.40
36	1	2808	A	N1-C6-N6	19.46	130.27	118.60
85	5	3019	U	N1-C2-O2	19.45	136.41	122.80
85	5	2864	A	C5-C6-N1	19.45	127.42	117.70
85	5	658	G	C8-N9-C4	-19.43	98.63	106.40
36	1	56	G	C5-C6-O6	-19.41	116.95	128.60
85	5	383	G	C6-N1-C2	19.38	136.73	125.10
85	5	410	U	C6-N1-C2	-19.35	109.39	121.00
85	5	216	G	N1-C6-O6	19.32	131.50	119.90
85	5	600	G	N1-C6-O6	19.32	131.49	119.90
85	5	2199	G	N1-C6-O6	19.32	131.49	119.90
85	5	1519	G	C5-C6-O6	-19.30	117.02	128.60
85	5	2741	C	N1-C2-O2	-19.27	107.33	118.90
80	6	1672	G	C4-C5-C6	-19.27	107.24	118.80
36	1	79	U	N1-C2-N3	19.27	126.46	114.90
36	1	49	A	C8-N9-C4	19.26	113.50	105.80
85	5	194	U	N3-C2-O2	-19.22	108.75	122.20
85	5	640	U	N3-C4-O4	19.19	132.83	119.40
36	1	1131	G	O5'-P-OP2	-19.18	87.68	110.70
85	5	1114	U	O5'-P-OP2	-19.17	87.69	110.70
85	5	2187	G	O5'-P-OP1	-19.14	87.73	110.70
85	5	106	A	C8-N9-C4	19.14	113.46	105.80
85	5	2403	G	C5-C6-N1	-19.13	101.94	111.50
85	5	1661	G	O5'-P-OP2	-19.12	87.76	110.70
85	5	1149	G	C4-C5-N7	19.11	118.44	110.80
36	1	55	G	C8-N9-C4	19.10	114.04	106.40
36	1	600	G	N1-C6-O6	19.09	131.36	119.90
80	6	469	C	N1-C2-N3	-19.08	105.85	119.20
85	5	1404	G	C2-N3-C4	-19.07	102.36	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1672	G	N7-C8-N9	19.06	122.63	113.10
85	5	870	G	N7-C8-N9	19.05	122.63	113.10
85	5	638	C	C6-N1-C2	-19.04	112.68	120.30
85	5	1205	A	C5-C6-N1	19.02	127.21	117.70
36	1	49	A	N7-C8-N9	-19.01	104.29	113.80
38	4	113	U	O5'-P-OP2	-19.01	87.89	110.70
38	4	108	C	N1-C2-O2	-19.00	107.50	118.90
36	1	671	U	O5'-P-OP2	-18.97	87.93	110.70
85	5	1312	C	N3-C4-C5	-18.95	114.32	121.90
85	5	813	G	C4-C5-N7	18.92	118.37	110.80
36	1	2758	A	N7-C8-N9	-18.89	104.35	113.80
36	1	2873	U	C5-C4-O4	18.88	137.23	125.90
85	5	3198	U	C5-C4-O4	-18.88	114.58	125.90
85	5	2893	C	N3-C2-O2	18.86	135.10	121.90
85	5	3050	U	N1-C2-O2	18.84	135.99	122.80
85	5	2376	G	C8-N9-C4	-18.82	98.87	106.40
85	5	2646	C	N3-C4-C5	18.81	129.43	121.90
1	2	1010	A	N1-C6-N6	18.80	129.88	118.60
36	1	221	A	O5'-P-OP1	-18.80	88.14	110.70
85	5	519	A	N1-C6-N6	18.80	129.88	118.60
36	1	286	U	N3-C2-O2	-18.78	109.05	122.20
85	5	653	A	C5-N7-C8	-18.77	94.52	103.90
80	6	32	U	N3-C4-C5	-18.76	103.34	114.60
80	6	264	G	N7-C8-N9	18.76	122.48	113.10
85	5	1696	A	O5'-P-OP2	-18.75	88.20	110.70
85	5	2142	A	C5-C6-N1	18.75	127.07	117.70
36	1	1165	A	N1-C2-N3	18.73	138.66	129.30
85	5	2395	G	C5-N7-C8	-18.73	94.94	104.30
80	6	646	C	C6-N1-C2	-18.73	112.81	120.30
85	5	2799	A	N1-C2-N3	18.72	138.66	129.30
85	5	651	G	C2-N3-C4	-18.68	102.56	111.90
85	5	2876	C	C2-N3-C4	-18.68	110.56	119.90
85	5	818	C	C6-N1-C2	18.68	127.77	120.30
36	1	54	C	N3-C4-C5	18.67	129.37	121.90
36	1	1519	G	O5'-P-OP2	-18.67	88.30	110.70
85	5	2320	A	C2-N3-C4	-18.66	101.27	110.60
36	1	2960	C	N3-C2-O2	-18.64	108.85	121.90
36	1	1154	A	C6-N1-C2	-18.61	107.44	118.60
85	5	2177	G	C5-C6-N1	-18.60	102.20	111.50
80	6	119	A	C2-N3-C4	-18.59	101.31	110.60
85	5	1180	A	O5'-P-OP1	-18.58	88.40	110.70
36	1	346	C	C2-N3-C4	-18.58	110.61	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2401	A	C2-N3-C4	-18.57	101.31	110.60
85	5	1434	G	O5'-P-OP2	-18.57	88.42	110.70
36	1	2720	G	O5'-P-OP2	-18.56	88.43	110.70
85	5	1156	C	N1-C2-O2	-18.56	107.77	118.90
36	1	940	G	O5'-P-OP1	-18.55	88.44	110.70
85	5	2944	U	N3-C2-O2	-18.54	109.22	122.20
85	5	2936	A	N1-C6-N6	-18.51	107.49	118.60
85	5	1662	G	C2-N3-C4	-18.51	102.64	111.90
36	1	427	C	C6-N1-C2	-18.50	112.90	120.30
36	1	857	G	C5-C6-N1	-18.49	102.25	111.50
36	1	1389	G	C4-C5-N7	18.49	118.19	110.80
38	4	94	C	C2-N3-C4	-18.48	110.66	119.90
80	6	818	C	C2-N3-C4	18.47	129.14	119.90
91	p	74	C	O5'-P-OP1	-18.47	88.54	110.70
85	5	3271	G	C5-C6-N1	18.46	120.73	111.50
36	1	3379	C	N3-C4-C5	-18.45	114.52	121.90
85	5	653	A	N1-C6-N6	18.44	129.67	118.60
85	5	1133	A	C6-C5-N7	-18.43	119.40	132.30
80	6	872	G	N1-C6-O6	18.43	130.96	119.90
85	5	208	C	O5'-P-OP1	-18.43	88.59	110.70
36	1	967	A	N1-C2-N3	18.42	138.51	129.30
85	5	1152	G	C5-N7-C8	-18.42	95.09	104.30
85	5	2884	C	C6-N1-C2	-18.41	112.93	120.30
80	6	1672	G	C4-C5-N7	18.41	118.16	110.80
85	5	295	A	C2-N3-C4	-18.40	101.40	110.60
85	5	1884	A	N1-C2-N3	18.40	138.50	129.30
80	6	1293	U	C5-C6-N1	18.38	131.89	122.70
36	1	2619	G	N1-C6-O6	-18.38	108.87	119.90
85	5	2852	C	C6-N1-C2	18.36	127.64	120.30
85	5	2943	G	N1-C6-O6	18.35	130.91	119.90
36	1	3212	C	C6-N1-C2	18.35	127.64	120.30
85	5	2300	G	C5-C6-N1	18.34	120.67	111.50
85	5	978	G	N1-C6-O6	-18.33	108.90	119.90
36	1	216	G	O5'-P-OP1	-18.33	88.70	110.70
36	1	936	A	O5'-P-OP2	-18.33	88.70	110.70
36	1	987	U	O5'-P-OP2	-18.33	88.71	110.70
36	1	1495	U	C5-C6-N1	-18.30	113.55	122.70
36	1	2715	A	N1-C6-N6	-18.30	107.62	118.60
36	1	640	U	C6-N1-C2	-18.29	110.03	121.00
36	1	3103	A	C2-N3-C4	-18.27	101.46	110.60
37	7	45	A	C5-C6-N1	18.27	126.84	117.70
36	1	2983	C	N3-C2-O2	-18.27	109.11	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3026	G	C5-C6-N1	-18.25	102.38	111.50
85	5	1444	G	C5-C6-N1	-18.23	102.38	111.50
37	7	85	G	C4-C5-N7	18.22	118.09	110.80
36	1	2890	A	C8-N9-C4	-18.22	98.51	105.80
36	1	3207	U	C5-C4-O4	18.22	136.83	125.90
85	5	2801	A	C2-N3-C4	18.21	119.71	110.60
85	5	2790	A	C2-N3-C4	-18.20	101.50	110.60
38	4	47	C	N3-C2-O2	-18.20	109.16	121.90
85	5	1192	C	N3-C2-O2	-18.20	109.16	121.90
36	1	2645	G	N1-C2-N3	18.20	134.82	123.90
85	5	437	G	N1-C6-O6	-18.19	108.99	119.90
36	1	1398	U	O5'-P-OP2	-18.18	88.88	110.70
85	5	2794	G	C5-C6-O6	-18.17	117.70	128.60
80	6	987	G	C5-N7-C8	-18.17	95.22	104.30
80	6	463	U	N3-C4-O4	18.16	132.11	119.40
85	5	701	G	C8-N9-C4	18.16	113.67	106.40
36	1	684	G	C4-C5-N7	18.16	118.06	110.80
36	1	2349	U	O5'-P-OP2	-18.15	88.92	110.70
85	5	1662	G	C4-C5-C6	18.13	129.68	118.80
85	5	208	C	C6-N1-C2	-18.13	113.05	120.30
37	7	11	A	O5'-P-OP1	-18.13	88.94	110.70
85	5	1281	G	N7-C8-N9	18.13	122.16	113.10
85	5	2970	C	C6-N1-C2	18.11	127.55	120.30
80	6	1727	G	C5-C6-N1	-18.11	102.44	111.50
85	5	345	G	C5-C6-N1	-18.11	102.45	111.50
85	5	2124	G	N1-C6-O6	18.10	130.76	119.90
80	6	818	C	C4-C5-C6	18.09	126.44	117.40
38	4	42	G	O5'-P-OP2	-18.08	89.01	110.70
85	5	657	A	C5-N7-C8	-18.07	94.87	103.90
36	1	1169	A	N1-C6-N6	-18.04	107.78	118.60
36	1	343	U	N1-C2-N3	18.03	125.72	114.90
85	5	580	C	C6-N1-C2	-18.02	113.09	120.30
85	5	2929	C	N3-C2-O2	-18.00	109.30	121.90
85	5	2881	C	N1-C2-O2	-17.99	108.11	118.90
85	5	2619	G	N1-C6-O6	-17.98	109.11	119.90
85	5	942	U	C6-N1-C2	-17.97	110.22	121.00
85	5	1482	A	O5'-P-OP2	-17.97	89.14	110.70
85	5	2794	G	C5-C6-N1	17.96	120.48	111.50
85	5	1343	A	C2-N3-C4	-17.95	101.63	110.60
85	5	2933	A	N1-C6-N6	-17.94	107.83	118.60
85	5	1903	U	N3-C4-C5	-17.93	103.84	114.60
85	5	1152	G	N7-C8-N9	17.93	122.06	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1213	G	C5-C6-O6	-17.92	117.85	128.60
85	5	3215	A	N1-C6-N6	17.91	129.35	118.60
85	5	2142	A	C2-N3-C4	17.91	119.56	110.60
80	6	1651	A	OP1-P-O3'	17.90	144.59	105.20
36	1	2632	G	O5'-P-OP2	-17.89	89.23	110.70
85	5	96	G	C2-N3-C4	-17.88	102.96	111.90
36	1	2960	C	N1-C2-O2	17.88	129.63	118.90
85	5	3018	C	O5'-P-OP2	-17.88	89.25	110.70
36	1	197	G	C5-C6-O6	-17.86	117.88	128.60
85	5	1519	G	C4-C5-N7	17.86	117.94	110.80
85	5	2725	U	C2-N3-C4	17.85	137.71	127.00
85	5	1542	G	N7-C8-N9	17.81	122.00	113.10
80	6	1143	A	C4-C5-C6	-17.81	108.09	117.00
36	1	1791	C	N1-C2-O2	-17.80	108.22	118.90
85	5	2644	C	C5-C6-N1	-17.79	112.11	121.00
36	1	2618	G	N1-C2-N3	17.78	134.57	123.90
85	5	1311	G	O5'-P-OP2	-17.78	89.37	110.70
85	5	3300	U	O5'-P-OP2	-17.76	89.38	110.70
36	1	610	G	C2-N3-C4	-17.76	103.02	111.90
36	1	1371	G	C2-N3-C4	-17.75	103.02	111.90
85	5	2893	C	N1-C2-O2	-17.74	108.25	118.90
36	1	17	G	C5-C6-O6	-17.73	117.96	128.60
36	1	2637	A	C6-N1-C2	-17.72	107.97	118.60
85	5	753	C	N3-C4-C5	17.70	128.98	121.90
85	5	1111	U	C5-C4-O4	-17.69	115.29	125.90
36	1	224	C	C2-N3-C4	17.68	128.74	119.90
85	5	3245	A	C5-C6-N1	-17.66	108.87	117.70
85	5	1399	A	C5-C6-N1	-17.66	108.87	117.70
80	6	1673	G	C2-N3-C4	-17.66	103.07	111.90
36	1	98	G	N1-C2-N3	17.65	134.49	123.90
36	1	59	G	C6-C5-N7	-17.65	119.81	130.40
36	1	2288	G	O5'-P-OP1	-17.65	89.52	110.70
85	5	82	C	N3-C4-C5	-17.64	114.84	121.90
36	1	178	U	N3-C2-O2	-17.63	109.86	122.20
80	6	54	C	N1-C2-O2	-17.62	108.33	118.90
36	1	1406	A	C5-C6-N1	17.62	126.51	117.70
36	1	2344	U	O5'-P-OP2	-17.59	89.59	110.70
38	8	20	U	N1-C2-O2	-17.59	110.49	122.80
80	6	419	G	C5-N7-C8	-17.57	95.51	104.30
36	1	751	A	C5-N7-C8	-17.57	95.11	103.90
36	1	2617	U	C5-C4-O4	17.57	136.44	125.90
36	1	625	G	N1-C6-O6	-17.56	109.36	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	857	G	C2-N3-C4	-17.55	103.12	111.90
85	5	1192	C	N1-C2-O2	17.55	129.43	118.90
36	1	2874	G	C5-C6-N1	-17.54	102.73	111.50
85	5	283	G	C4-C5-N7	17.54	117.82	110.80
85	5	2654	C	C6-N1-C2	-17.54	113.28	120.30
85	5	873	C	C6-N1-C2	-17.54	113.29	120.30
85	5	359	U	C5-C6-N1	17.54	131.47	122.70
85	5	2376	G	C6-C5-N7	-17.52	119.89	130.40
36	1	201	A	C2-N3-C4	-17.52	101.84	110.60
38	8	3	A	C5-C6-N1	17.51	126.45	117.70
85	5	3378	C	O5'-P-OP2	-17.50	89.70	110.70
85	5	635	G	C5-C6-O6	-17.50	118.10	128.60
85	5	2393	G	O5'-P-OP2	-17.49	89.71	110.70
36	1	870	G	C5-C6-O6	-17.48	118.11	128.60
36	1	2209	U	C5-C6-N1	17.47	131.44	122.70
36	1	796	U	N3-C2-O2	-17.47	109.97	122.20
85	5	1133	A	C2-N3-C4	-17.47	101.86	110.60
36	1	2618	G	N1-C2-N2	-17.46	100.49	116.20
85	5	1205	A	C6-N1-C2	-17.46	108.13	118.60
85	5	2405	C	C2-N3-C4	-17.44	111.18	119.90
36	1	159	A	C2-N3-C4	-17.43	101.88	110.60
36	1	2824	G	C5-C6-N1	-17.43	102.78	111.50
36	1	646	A	N1-C2-N3	17.43	138.01	129.30
36	1	1432	C	C6-N1-C2	-17.43	113.33	120.30
80	6	1498	G	C4-C5-C6	-17.42	108.35	118.80
85	5	1116	G	O5'-P-OP1	-17.41	89.81	110.70
85	5	774	G	C2-N3-C4	-17.40	103.20	111.90
37	3	91	G	C8-N9-C4	-17.40	99.44	106.40
85	5	798	G	C5-C6-N1	-17.38	102.81	111.50
36	1	942	U	C6-N1-C2	-17.38	110.57	121.00
36	1	2607	G	C8-N9-C4	17.38	113.35	106.40
85	5	2406	C	C6-N1-C2	-17.38	113.35	120.30
36	1	499	G	N1-C6-O6	17.38	130.32	119.90
80	6	678	A	C4-C5-C6	-17.37	108.31	117.00
36	1	33	G	O5'-P-OP2	-17.37	89.86	110.70
80	6	347	G	C4-C5-C6	17.37	129.22	118.80
85	5	1373	A	O5'-P-OP2	-17.36	89.87	110.70
85	5	96	G	N1-C6-O6	17.35	130.31	119.90
85	5	1872	C	N3-C2-O2	-17.35	109.75	121.90
36	1	1314	C	C6-N1-C2	-17.35	113.36	120.30
36	1	2121	G	C4-C5-N7	-17.34	103.86	110.80
36	1	2739	A	N1-C6-N6	17.34	129.00	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1308	A	C8-N9-C4	-17.34	98.87	105.80
85	5	2385	G	C5-C6-N1	-17.34	102.83	111.50
80	6	463	U	N3-C4-C5	-17.33	104.20	114.60
36	1	299	G	N1-C6-O6	17.33	130.30	119.90
85	5	3029	A	N1-C6-N6	-17.33	108.20	118.60
38	4	43	A	C5-C6-N1	17.32	126.36	117.70
85	5	2756	C	N1-C2-O2	-17.32	108.51	118.90
85	5	942	U	N1-C2-N3	17.31	125.29	114.90
85	5	2409	G	N1-C6-O6	-17.31	109.51	119.90
36	1	156	G	C5-C6-O6	-17.31	118.21	128.60
36	1	640	U	C4-C5-C6	17.31	130.09	119.70
36	1	3330	A	C2-N3-C4	17.30	119.25	110.60
38	8	3	A	OP1-P-OP2	-17.29	93.67	119.60
85	5	374	A	C8-N9-C4	-17.28	98.89	105.80
38	8	114	G	N1-C6-O6	17.28	130.27	119.90
85	5	2911	A	O5'-P-OP2	-17.28	89.97	110.70
85	5	345	G	N1-C6-O6	17.27	130.26	119.90
85	5	963	G	N3-C4-C5	-17.26	119.97	128.60
36	1	1175	C	N1-C2-O2	-17.25	108.55	118.90
36	1	49	A	C5-N7-C8	17.25	112.52	103.90
85	5	3136	G	OP1-P-OP2	-17.25	93.73	119.60
36	1	2138	A	C5-N7-C8	-17.24	95.28	103.90
85	5	2943	G	C5-N7-C8	-17.24	95.68	104.30
85	5	657	A	C4-C5-N7	17.22	119.31	110.70
85	5	3133	C	C6-N1-C2	-17.22	113.41	120.30
37	3	26	C	O5'-P-OP2	-17.22	90.04	110.70
36	1	1192	C	C4-C5-C6	17.21	126.01	117.40
36	1	2139	A	N1-C6-N6	-17.21	108.27	118.60
36	1	363	G	OP1-P-OP2	-17.20	93.80	119.60
36	1	2983	C	C5-C6-N1	-17.20	112.40	121.00
85	5	653	A	C4-C5-N7	17.20	119.30	110.70
85	5	1019	G	N1-C6-O6	-17.19	109.59	119.90
85	5	2215	A	C2-N3-C4	-17.18	102.01	110.60
85	5	2284	C	C6-N1-C2	17.17	127.17	120.30
36	1	1508	C	C6-N1-C2	-17.17	113.43	120.30
36	1	934	G	C8-N9-C4	-17.16	99.53	106.40
85	5	2278	C	C4-C5-C6	-17.16	108.82	117.40
36	1	984	G	C5-C6-O6	-17.15	118.31	128.60
85	5	518	G	C4-C5-N7	-17.15	103.94	110.80
85	5	3091	A	N1-C6-N6	-17.15	108.31	118.60
36	1	2824	G	C2-N3-C4	-17.15	103.33	111.90
85	5	2354	C	N1-C2-O2	-17.13	108.62	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	7	102	A	C2-N3-C4	-17.13	102.03	110.60
80	6	32	U	N3-C4-O4	17.12	131.39	119.40
85	5	1852	G	C8-N9-C4	-17.11	99.55	106.40
85	5	2395	G	C4-C5-N7	17.11	117.65	110.80
85	5	787	G	C5-C6-N1	-17.10	102.95	111.50
85	5	1006	A	O5'-P-OP2	-17.10	90.18	110.70
85	5	418	A	N1-C6-N6	17.10	128.86	118.60
85	5	2335	G	C6-N1-C2	-17.09	114.85	125.10
85	5	774	G	N1-C6-O6	17.09	130.15	119.90
36	1	2334	U	C5-C6-N1	-17.08	114.16	122.70
38	4	103	G	N3-C4-C5	-17.08	120.06	128.60
85	5	641	C	O5'-P-OP1	-17.08	90.21	110.70
85	5	2243	A	O5'-P-OP1	-17.08	90.21	110.70
36	1	1791	C	N3-C4-C5	-17.06	115.07	121.90
36	1	1383	G	N1-C6-O6	17.06	130.14	119.90
36	1	655	C	C6-N1-C2	-17.05	113.48	120.30
37	7	63	A	C4-C5-N7	-17.05	102.17	110.70
36	1	2375	G	C6-N1-C2	-17.05	114.87	125.10
85	5	652	G	OP1-P-OP2	-17.05	94.03	119.60
37	3	86	U	C6-N1-C2	17.05	131.23	121.00
36	1	2979	U	N3-C2-O2	-17.04	110.27	122.20
85	5	2278	C	N1-C2-O2	17.04	129.12	118.90
36	1	3330	A	C5-C6-N1	17.04	126.22	117.70
85	5	919	U	O5'-P-OP1	17.04	131.14	110.70
85	5	1934	G	N3-C2-N2	-17.03	107.98	119.90
85	5	2847	A	C8-N9-C4	17.03	112.61	105.80
36	1	2173	U	N1-C2-N3	17.02	125.11	114.90
36	1	350	C	N1-C2-O2	17.02	129.11	118.90
85	5	371	G	O5'-P-OP1	-17.02	90.28	110.70
85	5	2358	A	O5'-P-OP1	-17.02	90.28	110.70
36	1	1115	G	N1-C2-N3	17.01	134.11	123.90
36	1	120	G	N1-C6-O6	-17.01	109.69	119.90
85	5	2943	G	C6-C5-N7	-17.01	120.20	130.40
37	3	120	C	N3-C2-O2	-17.00	110.00	121.90
36	1	3103	A	O5'-P-OP2	-17.00	90.31	110.70
85	5	2156	C	C5-C6-N1	-17.00	112.50	121.00
85	5	3008	A	C2-N3-C4	-16.98	102.11	110.60
36	1	1589	A	N9-C4-C5	16.97	112.59	105.80
85	5	957	C	C6-N1-C2	-16.97	113.51	120.30
85	5	2267	C	N3-C4-C5	16.96	128.68	121.90
85	5	345	G	C4-C5-C6	16.95	128.97	118.80
85	5	2124	G	C2-N3-C4	-16.95	103.43	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3136	G	N1-C2-N3	16.94	134.06	123.90
36	1	1852	G	N1-C6-O6	16.94	130.06	119.90
85	5	2607	G	N3-C2-N2	-16.94	108.04	119.90
85	5	3036	G	N1-C6-O6	16.94	130.06	119.90
85	5	2661	G	C5-C6-N1	16.93	119.97	111.50
85	5	1897	G	N7-C8-N9	16.92	121.56	113.10
36	1	1389	G	C5-C6-N1	16.92	119.96	111.50
36	1	1683	A	N1-C6-N6	16.91	128.75	118.60
85	5	2208	A	C4-C5-C6	16.90	125.45	117.00
36	1	2617	U	N1-C2-N3	16.90	125.04	114.90
36	1	2866	U	O5'-P-OP2	-16.90	90.42	110.70
85	5	2928	C	N1-C2-O2	-16.90	108.76	118.90
85	5	3294	A	C6-N1-C2	-16.90	108.46	118.60
36	1	405	U	C5-C4-O4	-16.89	115.76	125.90
85	5	1897	G	C5-N7-C8	-16.89	95.85	104.30
80	6	987	G	N7-C8-N9	16.88	121.54	113.10
85	5	798	G	C2-N3-C4	-16.88	103.46	111.90
85	5	869	G	N1-C6-O6	-16.88	109.77	119.90
85	5	722	G	N1-C6-O6	16.88	130.03	119.90
85	5	2358	A	O5'-P-OP2	16.87	130.95	110.70
85	5	2724	U	N3-C4-O4	16.87	131.21	119.40
36	1	2991	A	C2-N3-C4	-16.87	102.17	110.60
85	5	2381	G	C6-C5-N7	-16.86	120.28	130.40
36	1	637	C	N3-C4-C5	16.86	128.65	121.90
85	5	638	C	N3-C4-C5	-16.86	115.16	121.90
80	6	1143	A	N1-C6-N6	-16.85	108.49	118.60
85	5	1492	G	C2-N3-C4	-16.84	103.48	111.90
85	5	928	C	O5'-P-OP2	-16.82	90.51	110.70
37	7	65	G	O5'-P-OP2	16.82	130.89	110.70
36	1	806	A	O5'-P-OP1	-16.82	90.52	110.70
85	5	645	A	N1-C6-N6	-16.81	108.51	118.60
85	5	2745	G	C5-C6-N1	-16.81	103.10	111.50
38	8	111	A	C8-N9-C4	-16.81	99.08	105.80
36	1	2617	U	N3-C4-C5	-16.80	104.52	114.60
36	1	96	G	C4-C5-N7	16.80	117.52	110.80
37	7	115	G	C5-C6-O6	-16.79	118.52	128.60
36	1	755	A	O5'-P-OP2	-16.79	90.55	110.70
36	1	2598	G	O5'-P-OP2	-16.79	90.56	110.70
85	5	2644	C	N3-C2-O2	-16.78	110.15	121.90
37	7	88	G	N1-C2-N3	16.78	133.97	123.90
85	5	2745	G	C5-C6-O6	16.78	138.66	128.60
36	1	2886	U	N3-C4-O4	16.77	131.14	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1308	A	O5'-P-OP1	-16.76	90.59	110.70
36	1	2983	C	C2-N3-C4	-16.76	111.52	119.90
36	1	1801	U	N1-C2-N3	16.76	124.95	114.90
80	6	1657	U	O5'-P-OP1	16.76	130.81	110.70
85	5	1296	C	C6-N1-C2	-16.75	113.60	120.30
36	1	2827	U	C5-C4-O4	-16.75	115.85	125.90
85	5	1064	A	O5'-P-OP2	-16.75	90.60	110.70
36	1	187	A	C8-N9-C4	-16.75	99.10	105.80
85	5	2415	C	N3-C2-O2	-16.75	110.18	121.90
80	6	1673	G	C4-C5-C6	16.74	128.85	118.80
85	5	890	C	C6-N1-C2	-16.74	113.60	120.30
85	5	776	U	C5-C6-N1	-16.74	114.33	122.70
85	5	826	G	C5-C6-O6	-16.74	118.56	128.60
80	6	264	G	C4-C5-N7	16.74	117.49	110.80
36	1	2942	C	C6-N1-C2	16.73	126.99	120.30
85	5	2223	A	C8-N9-C4	-16.73	99.11	105.80
85	5	748	U	C4-C5-C6	16.72	129.73	119.70
36	1	1380	G	C2-N3-C4	-16.72	103.54	111.90
36	1	1790	G	N1-C6-O6	16.70	129.92	119.90
80	6	103	A	C8-N9-C4	-16.70	99.12	105.80
36	1	665	A	O5'-P-OP1	-16.70	90.66	110.70
85	5	2966	G	N1-C6-O6	16.70	129.92	119.90
36	1	1003	A	C5-C6-N1	-16.68	109.36	117.70
36	1	2622	C	C6-N1-C2	-16.68	113.63	120.30
37	7	79	A	O5'-P-OP1	-16.68	90.68	110.70
36	1	363	G	O5'-P-OP2	16.67	130.71	110.70
85	5	820	A	C8-N9-C4	-16.67	99.13	105.80
37	3	74	C	C4-C5-C6	-16.66	109.07	117.40
36	1	693	A	O5'-P-OP1	-16.66	90.71	105.70
85	5	3225	C	N3-C4-N4	16.66	129.66	118.00
36	1	161	G	O5'-P-OP2	-16.65	90.72	105.70
36	1	808	A	C6-N1-C2	-16.65	108.61	118.60
36	1	3025	C	C6-N1-C2	16.65	126.96	120.30
85	5	2617	U	O5'-P-OP2	-16.64	90.72	105.70
85	5	2935	U	N3-C4-C5	-16.64	104.61	114.60
80	6	25	C	C2-N3-C4	16.64	128.22	119.90
85	5	2717	U	N1-C2-O2	-16.64	111.15	122.80
36	1	282	G	C8-N9-C4	-16.64	99.75	106.40
85	5	658	G	N7-C8-N9	16.63	121.41	113.10
36	1	928	C	C5-C6-N1	-16.62	112.69	121.00
85	5	647	A	C6-N1-C2	-16.62	108.63	118.60
36	1	1852	G	C4-C5-N7	16.61	117.44	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	641	C	N3-C2-O2	16.59	133.51	121.90
80	6	757	A	C5-C6-N1	-16.59	109.41	117.70
85	5	599	C	C2-N3-C4	-16.58	111.61	119.90
85	5	409	A	C2-N3-C4	16.58	118.89	110.60
38	4	92	A	C2-N3-C4	-16.58	102.31	110.60
85	5	2977	G	C6-N1-C2	-16.57	115.16	125.10
85	5	1865	A	C2-N3-C4	-16.57	102.32	110.60
36	1	711	A	C8-N9-C4	16.57	112.43	105.80
36	1	321	C	O5'-P-OP2	-16.56	90.79	105.70
85	5	2846	U	O4'-C1'-N1	-16.56	94.95	108.20
85	5	954	U	N3-C2-O2	-16.56	110.61	122.20
85	5	2199	G	C5-C6-O6	-16.55	118.67	128.60
36	1	660	A	O5'-P-OP2	-16.55	90.81	105.70
36	1	1156	C	C2-N3-C4	-16.54	111.63	119.90
36	1	957	C	N3-C4-C5	-16.52	115.29	121.90
36	1	2816	G	N1-C6-O6	16.52	129.81	119.90
36	1	85	A	C2-N3-C4	-16.51	102.34	110.60
36	1	1148	G	C5-C6-O6	-16.51	118.69	128.60
85	5	2707	C	N3-C2-O2	16.51	133.46	121.90
38	8	3	A	C5-C6-N6	-16.51	110.49	123.70
36	1	959	C	C6-N1-C2	16.50	126.90	120.30
36	1	683	U	N1-C2-O2	-16.50	111.25	122.80
36	1	907	G	C8-N9-C4	16.50	113.00	106.40
36	1	1148	G	N1-C6-O6	16.49	129.79	119.90
85	5	16	A	C8-N9-C4	16.49	112.40	105.80
85	5	1935	G	C4-C5-C6	-16.49	108.91	118.80
85	5	2283	G	C5-C6-O6	-16.49	118.71	128.60
85	5	2799	A	C6-N1-C2	-16.48	108.71	118.60
80	6	1070	C	C2-N3-C4	16.48	128.14	119.90
85	5	141	C	N3-C2-O2	16.48	133.44	121.90
80	6	1294	G	C8-N9-C4	-16.48	99.81	106.40
85	5	649	A	C5-N7-C8	-16.47	95.66	103.90
36	1	1111	U	N1-C2-O2	-16.47	111.27	122.80
85	5	391	A	O5'-P-OP2	-16.46	90.89	105.70
85	5	2233	A	N1-C6-N6	-16.45	108.73	118.60
85	5	1432	C	N3-C2-O2	-16.45	110.39	121.90
36	1	625	G	C5-C6-O6	16.43	138.46	128.60
85	5	2925	C	C6-N1-C2	16.43	126.87	120.30
36	1	2616	C	C6-N1-C2	-16.42	113.73	120.30
85	5	2417	U	C4-C5-C6	16.42	129.55	119.70
85	5	2653	C	N1-C2-O2	-16.41	109.05	118.90
36	1	1467	A	C5-C6-N1	16.41	125.91	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	948	C	C6-N1-C2	16.41	126.86	120.30
85	5	2376	G	O5'-P-OP2	-16.40	90.94	105.70
85	5	1944	U	N1-C2-N3	16.40	124.74	114.90
85	5	2283	G	C4-C5-N7	16.39	117.36	110.80
85	5	1343	A	C5-C6-N1	-16.38	109.51	117.70
36	1	640	U	N1-C2-O2	-16.38	111.33	122.80
85	5	1884	A	C2-N3-C4	-16.38	102.41	110.60
36	1	796	U	C2-N3-C4	-16.37	117.18	127.00
36	1	1467	A	N1-C6-N6	-16.37	108.78	118.60
80	6	420	A	C2-N3-C4	-16.37	102.42	110.60
80	6	270	C	C6-N1-C2	16.37	126.85	120.30
80	6	1649	G	N3-C4-C5	16.37	136.78	128.60
36	1	797	U	N1-C2-O2	-16.36	111.35	122.80
85	5	2296	A	C5-C6-N1	16.35	125.88	117.70
36	1	2777	G	C8-N9-C4	-16.34	99.86	106.40
36	1	676	G	N3-C4-C5	-16.33	120.44	128.60
85	5	2851	A	C8-N9-C4	-16.33	99.27	105.80
85	5	1292	C	N1-C2-O2	-16.32	109.11	118.90
36	1	1359	C	C6-N1-C2	16.32	126.83	120.30
36	1	1508	C	N3-C4-C5	-16.32	115.37	121.90
85	5	918	C	C2-N3-C4	16.32	128.06	119.90
36	1	1527	C	C6-N1-C2	16.32	126.83	120.30
36	1	283	G	C5-N7-C8	-16.31	96.14	104.30
85	5	2406	C	N1-C2-O2	-16.31	109.11	118.90
85	5	39	A	N1-C2-N3	16.31	137.46	129.30
85	5	2376	G	N1-C6-O6	16.30	129.68	119.90
85	5	1155	C	C6-N1-C2	-16.30	113.78	120.30
1	2	553	G	N1-C6-O6	16.30	129.68	119.90
36	1	684	G	C5-C6-O6	-16.29	118.83	128.60
36	1	690	A	N1-C6-N6	-16.29	108.83	118.60
36	1	1339	C	N3-C2-O2	-16.28	110.50	121.90
36	1	17	G	C4-C5-N7	16.28	117.31	110.80
38	4	41	A	N1-C6-N6	-16.28	108.83	118.60
36	1	2719	U	C5-C6-N1	-16.27	114.56	122.70
36	1	370	U	N3-C2-O2	-16.27	110.81	122.20
36	1	2811	A	N1-C2-N3	16.27	137.43	129.30
85	5	652	G	C4-C5-N7	-16.27	104.29	110.80
85	5	2966	G	C6-C5-N7	-16.27	120.64	130.40
36	1	942	U	N1-C2-N3	16.26	124.66	114.90
36	1	2381	G	C8-N9-C4	-16.26	99.90	106.40
85	5	1415	U	N3-C4-C5	-16.26	104.84	114.60
85	5	2906	C	O5'-P-OP2	-16.25	91.07	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	7	87	G	N1-C6-O6	16.25	129.65	119.90
36	1	2890	A	N9-C4-C5	16.25	112.30	105.80
85	5	3119	U	N1-C2-O2	-16.25	111.42	122.80
85	5	1662	G	N3-C2-N2	-16.24	108.53	119.90
36	1	1502	C	N1-C2-O2	-16.24	109.16	118.90
85	5	1772	U	C4-C5-C6	16.24	129.44	119.70
36	1	2174	G	N1-C2-N3	16.24	133.64	123.90
80	6	1659	A	C2-N3-C4	-16.24	102.48	110.60
36	1	2896	A	C2-N3-C4	-16.23	102.48	110.60
36	1	1307	G	O5'-P-OP2	-16.23	91.09	105.70
85	5	948	C	C6-N1-C2	16.23	126.79	120.30
85	5	1733	G	C5-N7-C8	-16.23	96.19	104.30
36	1	2169	G	N1-C6-O6	-16.22	110.17	119.90
85	5	2124	G	C4-C5-C6	16.22	128.53	118.80
36	1	2937	G	N1-C6-O6	-16.22	110.17	119.90
85	5	2663	G	C5-C6-O6	-16.22	118.87	128.60
85	5	1404	G	C5-C6-N1	-16.21	103.39	111.50
36	1	1312	C	N3-C4-C5	-16.21	115.42	121.90
85	5	600	G	C6-C5-N7	-16.20	120.68	130.40
36	1	2629	U	N1-C2-O2	-16.20	111.46	122.80
85	5	2964	G	C4-C5-N7	-16.20	104.32	110.80
85	5	1677	G	N1-C6-O6	-16.20	110.18	119.90
47	m0	90	ARG	NE-CZ-NH1	-16.20	112.20	120.30
85	5	644	G	C5-C6-N1	-16.19	103.41	111.50
85	5	653	A	C5-C6-N6	-16.19	110.75	123.70
85	5	748	U	C5-C6-N1	16.19	130.79	122.70
36	1	2121	G	C5-C6-O6	16.19	138.31	128.60
38	4	94	C	C5-C6-N1	-16.19	112.91	121.00
85	5	813	G	C5-N7-C8	-16.19	96.21	104.30
80	6	32	U	C6-N1-C2	-16.18	111.29	121.00
85	5	635	G	N1-C6-O6	16.18	129.61	119.90
36	1	2811	A	C6-N1-C2	-16.18	108.89	118.60
80	6	1673	G	N9-C4-C5	16.17	111.87	105.40
36	1	1585	C	N3-C4-N4	16.16	129.31	118.00
85	5	358	G	N1-C6-O6	16.16	129.59	119.90
36	1	857	G	C8-N9-C4	-16.16	99.94	106.40
80	6	1672	G	N3-C4-C5	16.15	136.67	128.60
85	5	1935	G	N3-C4-C5	16.15	136.68	128.60
36	1	645	A	C4-C5-N7	-16.14	102.63	110.70
85	5	332	C	O5'-P-OP2	-16.14	91.18	105.70
85	5	870	G	O5'-P-OP2	-16.13	91.18	105.70
85	5	1604	G	N1-C6-O6	-16.12	110.23	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	921	A	C6-N1-C2	-16.11	108.93	118.60
85	5	933	A	C6-N1-C2	-16.11	108.94	118.60
85	5	194	U	N1-C2-N3	16.09	124.55	114.90
85	5	1124	U	C4-C5-C6	16.09	129.35	119.70
36	1	217	U	N1-C2-N3	16.08	124.55	114.90
85	5	1124	U	C5-C4-O4	16.08	135.55	125.90
85	5	2754	G	N1-C2-N3	16.08	133.55	123.90
85	5	1476	G	C8-N9-C4	16.07	112.83	106.40
85	5	1349	G	C8-N9-C4	16.07	112.83	106.40
85	5	407	A	N1-C2-N3	16.07	137.33	129.30
85	5	1114	U	N3-C4-C5	-16.07	104.96	114.60
36	1	867	G	C5-C6-N1	-16.06	103.47	111.50
36	1	128	G	O5'-P-OP1	-16.05	91.25	105.70
85	5	1420	C	N3-C4-N4	-16.05	106.77	118.00
85	5	2412	G	O5'-P-OP2	-16.05	91.26	105.70
85	5	2559	U	C5-C6-N1	-16.04	114.68	122.70
85	5	345	G	C6-C5-N7	-16.03	120.78	130.40
85	5	2943	G	C8-N9-C4	-16.03	99.99	106.40
36	1	793	C	N3-C2-O2	16.03	133.12	121.90
85	5	1440	G	C5-N7-C8	-16.02	96.29	104.30
36	1	1949	G	O5'-P-OP1	-16.02	91.28	105.70
36	1	2873	U	N3-C2-O2	-16.02	110.99	122.20
85	5	2908	G	C5-N7-C8	-16.01	96.29	104.30
85	5	1889	G	N1-C6-O6	16.01	129.50	119.90
85	5	1897	G	C5-C6-O6	-16.01	119.00	128.60
85	5	1152	G	C8-N9-C4	-16.00	100.00	106.40
85	5	2615	G	N1-C6-O6	15.99	129.49	119.90
85	5	1895	A	N9-C4-C5	-15.98	99.41	105.80
85	5	3206	C	N3-C2-O2	-15.98	110.71	121.90
1	2	813	U	N3-C2-O2	-15.98	111.02	122.20
80	6	410	A	O5'-P-OP1	15.98	129.87	110.70
36	1	3025	C	C5-C6-N1	-15.97	113.02	121.00
85	5	743	C	N3-C4-C5	-15.95	115.52	121.90
36	1	921	A	C2-N3-C4	15.95	118.58	110.60
85	5	387	A	C8-N9-C4	-15.95	99.42	105.80
85	5	660	A	N1-C6-N6	-15.94	109.04	118.60
36	1	1634	G	C8-N9-C4	-15.94	100.03	106.40
36	1	2127	U	N1-C2-O2	-15.93	111.65	122.80
37	3	5	G	N1-C6-O6	-15.93	110.34	119.90
85	5	1901	A	N1-C6-N6	-15.92	109.05	118.60
36	1	923	C	N1-C2-O2	15.92	128.45	118.90
80	6	1634	C	N1-C2-O2	15.92	128.45	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2351	U	N3-C2-O2	-15.92	111.06	122.20
36	1	3361	G	N1-C6-O6	-15.91	110.35	119.90
36	1	867	G	N1-C2-N3	15.91	133.45	123.90
85	5	1173	U	O5'-P-OP1	15.90	129.78	110.70
85	5	1937	U	O5'-P-OP2	-15.90	91.39	105.70
36	1	901	G	C5-C6-O6	-15.89	119.06	128.60
85	5	2994	A	C6-N1-C2	-15.89	109.07	118.60
85	5	304	G	N3-C2-N2	-15.89	108.78	119.90
85	5	1307	G	O5'-P-OP2	-15.89	91.40	105.70
85	5	2775	U	C2-N3-C4	-15.88	117.47	127.00
36	1	2733	A	C4-C5-C6	15.88	124.94	117.00
85	5	3388	C	N3-C4-N4	-15.88	106.89	118.00
85	5	1661	G	C8-N9-C4	-15.87	100.05	106.40
36	1	2355	G	C5-C6-N1	-15.86	103.57	111.50
85	5	963	G	C5-C6-N1	15.86	119.43	111.50
85	5	2615	G	C4-C5-N7	15.85	117.14	110.80
85	5	1113	G	C2-N3-C4	-15.85	103.98	111.90
36	1	2886	U	N3-C4-C5	-15.84	105.09	114.60
85	5	813	G	C6-C5-N7	-15.84	120.90	130.40
36	1	80	G	N1-C6-O6	-15.84	110.40	119.90
85	5	326	U	C5-C6-N1	15.83	130.62	122.70
80	6	619	A	N1-C6-N6	-15.83	109.10	118.60
85	5	2095	G	C8-N9-C4	15.82	112.73	106.40
36	1	901	G	N1-C6-O6	15.82	129.39	119.90
36	1	2138	A	N7-C8-N9	15.81	121.70	113.80
80	6	1775	U	C5-C6-N1	-15.81	114.80	122.70
85	5	2610	G	C6-C5-N7	-15.80	120.92	130.40
36	1	1760	A	C2-N3-C4	15.80	118.50	110.60
36	1	1346	G	C2-N3-C4	-15.80	104.00	111.90
85	5	2428	U	N1-C2-O2	-15.79	111.75	122.80
85	5	1198	C	O5'-P-OP1	-15.79	91.49	105.70
36	1	2401	A	C5-N7-C8	-15.78	96.01	103.90
85	5	2278	C	N3-C4-C5	15.78	128.21	121.90
85	5	815	G	C8-N9-C4	15.78	112.71	106.40
36	1	992	A	N1-C2-N3	15.77	137.19	129.30
36	1	711	A	N7-C8-N9	-15.77	105.92	113.80
85	5	1424	C	N3-C4-C5	15.76	128.21	121.90
80	6	1109	G	C4-C5-N7	15.76	117.10	110.80
85	5	937	G	N1-C2-N3	15.75	133.35	123.90
85	5	2754	G	N1-C6-O6	-15.75	110.45	119.90
85	5	3098	G	C5-C6-O6	-15.75	119.15	128.60
36	1	609	G	C5-C6-N1	15.75	119.37	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2432	A	C8-N9-C4	-15.75	99.50	105.80
36	1	397	A	C5-C6-N1	15.74	125.57	117.70
85	5	922	U	N3-C2-O2	-15.74	111.18	122.20
85	5	2884	C	C5-C6-N1	15.74	128.87	121.00
85	5	582	G	N1-C6-O6	15.73	129.34	119.90
85	5	1012	G	C2-N3-C4	-15.73	104.04	111.90
36	1	3081	C	C6-N1-C2	15.72	126.59	120.30
85	5	2304	C	N1-C2-O2	-15.72	109.47	118.90
36	1	3340	G	C8-N9-C4	-15.71	100.11	106.40
85	5	1399	A	C2-N3-C4	-15.71	102.74	110.60
85	5	2312	A	C6-N1-C2	-15.71	109.17	118.60
85	5	2326	A	C8-N9-C4	15.70	112.08	105.80
85	5	83	U	O5'-P-OP2	-15.70	91.57	105.70
85	5	1185	C	N3-C2-O2	-15.70	110.91	121.90
85	5	499	G	C2-N3-C4	-15.69	104.06	111.90
85	5	2964	G	C6-C5-N7	15.69	139.81	130.40
85	5	2281	A	O5'-P-OP2	-15.67	91.59	105.70
85	5	327	A	C5-C6-N1	15.66	125.53	117.70
85	5	206	G	C8-N9-C4	-15.66	100.14	106.40
38	8	7	U	O5'-P-OP2	-15.66	91.61	105.70
85	5	2707	C	C4-C5-C6	15.66	125.23	117.40
80	6	565	C	C4-C5-C6	15.65	125.23	117.40
85	5	50	U	N3-C4-O4	15.65	130.35	119.40
85	5	1167	U	N1-C2-N3	15.64	124.29	114.90
36	1	2877	G	N1-C2-N3	15.64	133.28	123.90
85	5	2399	A	C2-N3-C4	-15.64	102.78	110.60
36	1	1522	U	N1-C2-N3	15.63	124.28	114.90
85	5	2403	G	N3-C2-N2	-15.62	108.96	119.90
36	1	1847	A	C5-C6-N6	15.61	136.19	123.70
85	5	653	A	C6-C5-N7	-15.61	121.37	132.30
36	1	690	A	C5-C6-N6	15.60	136.18	123.70
80	6	33	U	N3-C4-C5	-15.60	105.24	114.60
85	5	2283	G	C5-N7-C8	-15.60	96.50	104.30
36	1	2872	A	O5'-P-OP2	-15.60	91.66	105.70
85	5	1045	C	N3-C4-C5	-15.59	115.66	121.90
85	5	2754	G	C5-C6-O6	15.59	137.95	128.60
85	5	1934	G	C4-C5-C6	15.59	128.15	118.80
85	5	2943	G	C4-C5-N7	15.59	117.03	110.80
36	1	2972	G	N1-C6-O6	15.58	129.25	119.90
36	1	3085	G	C8-N9-C4	-15.58	100.17	106.40
1	2	87	C	C6-N1-C2	-15.57	114.07	120.30
85	5	1125	U	O5'-P-OP1	-15.57	91.69	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	604	G	O5'-P-OP1	-15.56	91.69	105.70
36	1	716	A	C8-N9-C4	15.56	112.03	105.80
80	6	565	C	N3-C4-C5	-15.56	115.67	121.90
80	6	1117	U	N3-C4-O4	15.56	130.29	119.40
36	1	610	G	C5-C6-N1	-15.55	103.72	111.50
85	5	1897	G	C4-C5-N7	15.54	117.02	110.80
38	8	92	A	C5-N7-C8	-15.54	96.13	103.90
36	1	2715	A	O5'-P-OP1	-15.54	91.71	105.70
85	5	1519	G	N1-C6-O6	15.53	129.22	119.90
38	4	114	G	N3-C4-C5	15.53	136.36	128.60
38	4	152	G	C5-C6-N1	-15.53	103.74	111.50
85	5	672	A	N1-C6-N6	-15.53	109.28	118.60
36	1	2607	G	N1-C6-O6	15.52	129.21	119.90
38	4	38	U	N3-C2-O2	-15.52	111.34	122.20
38	4	49	G	C8-N9-C4	15.50	112.60	106.40
85	5	1772	U	C2-N3-C4	15.50	136.30	127.00
85	5	2850	G	C5-C6-O6	-15.50	119.30	128.60
36	1	2180	G	N1-C6-O6	15.50	129.20	119.90
36	1	2811	A	N9-C4-C5	15.50	112.00	105.80
36	1	2816	G	C5-C6-N1	-15.50	103.75	111.50
36	1	1395	G	O5'-P-OP2	-15.49	91.76	105.70
80	6	757	A	C2-N3-C4	-15.49	102.86	110.60
36	1	2379	U	C5-C4-O4	-15.49	116.61	125.90
85	5	283	G	C5-C6-N1	15.49	119.24	111.50
85	5	870	G	N3-C4-N9	-15.49	116.71	126.00
36	1	2972	G	N1-C2-N3	-15.48	114.61	123.90
38	4	103	G	C5-C6-N1	15.47	119.24	111.50
85	5	649	A	C8-N9-C4	-15.47	99.61	105.80
36	1	802	C	N3-C4-C5	-15.47	115.71	121.90
36	1	3101	G	N1-C6-O6	-15.47	110.62	119.90
85	5	1412	G	O5'-P-OP1	15.46	129.26	110.70
85	5	1376	C	C6-N1-C2	-15.46	114.12	120.30
85	5	2416	U	C6-N1-C2	-15.46	111.72	121.00
36	1	1419	A	O5'-P-OP1	15.46	129.25	110.70
80	6	702	G	C5-C6-O6	-15.46	119.32	128.60
36	1	2373	A	O5'-P-OP1	-15.46	91.79	105.70
85	5	1128	U	O5'-P-OP2	-15.45	91.79	105.70
85	5	2891	U	N3-C2-O2	-15.45	111.38	122.20
85	5	2303	A	C8-N9-C4	15.45	111.98	105.80
36	1	1429	G	N1-C2-N3	15.45	133.17	123.90
36	1	867	G	C4-C5-N7	-15.44	104.62	110.80
36	1	632	G	C4-C5-N7	15.44	116.97	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2636	A	N9-C4-C5	15.43	111.97	105.80
85	5	656	A	N1-C6-N6	15.43	127.86	118.60
85	5	215	G	C8-N9-C4	-15.43	100.23	106.40
36	1	636	C	C2-N3-C4	-15.42	112.19	119.90
36	1	644	G	O5'-P-OP1	-15.42	91.82	105.70
38	4	56	G	C2-N3-C4	-15.42	104.19	111.90
85	5	3327	G	N3-C2-N2	-15.42	109.11	119.90
36	1	201	A	C5-C6-N1	-15.42	109.99	117.70
38	8	109	A	C8-N9-C4	-15.41	99.63	105.80
36	1	3134	A	O5'-P-OP2	-15.41	91.83	105.70
85	5	1488	G	C8-N9-C4	-15.41	100.24	106.40
36	1	1371	G	C8-N9-C4	15.40	112.56	106.40
85	5	2355	G	C2-N3-C4	-15.40	104.20	111.90
85	5	1310	G	C8-N9-C4	-15.40	100.24	106.40
36	1	3362	A	C5-N7-C8	-15.40	96.20	103.90
85	5	1361	U	N1-C2-O2	-15.40	112.02	122.80
37	7	31	U	C5-C6-N1	15.39	130.40	122.70
36	1	775	A	N1-C6-N6	15.39	127.83	118.60
38	4	142	C	C6-N1-C2	-15.39	114.14	120.30
80	6	1143	A	C5-C6-N1	15.39	125.39	117.70
36	1	578	A	C5-C6-N1	15.38	125.39	117.70
85	5	873	C	N3-C2-O2	-15.38	111.14	121.90
85	5	622	A	C8-N9-C4	15.37	111.95	105.80
85	5	2379	U	O5'-P-OP2	-15.37	91.86	105.70
37	7	60	G	O5'-P-OP2	-15.37	91.87	105.70
36	1	2121	G	N1-C6-O6	-15.37	110.68	119.90
80	6	295	A	C8-N9-C4	15.36	111.94	105.80
37	7	84	A	C8-N9-C4	-15.36	99.66	105.80
36	1	2635	A	O5'-P-OP2	-15.36	91.88	105.70
85	5	2724	U	N1-C2-N3	15.36	124.12	114.90
36	1	648	C	C6-N1-C2	-15.35	114.16	120.30
85	5	2888	U	N3-C4-O4	15.35	130.14	119.40
85	5	2117	A	C6-N1-C2	-15.35	109.39	118.60
36	1	579	G	O5'-P-OP2	-15.34	91.89	105.70
38	4	137	C	N3-C4-C5	-15.34	115.76	121.90
85	5	950	G	C8-N9-C4	15.34	112.54	106.40
85	5	2943	G	N7-C8-N9	15.34	120.77	113.10
80	6	58	U	C6-N1-C2	-15.34	111.80	121.00
85	5	2977	G	C5-C6-N1	15.34	119.17	111.50
36	1	957	C	C4-C5-C6	15.34	125.07	117.40
80	6	95	G	N1-C6-O6	-15.34	110.70	119.90
85	5	640	U	N1-C2-O2	-15.33	112.07	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3060	C	N1-C2-O2	-15.32	109.71	118.90
36	1	3022	G	C5-C6-O6	-15.32	119.41	128.60
36	1	600	G	C5-C6-O6	-15.31	119.41	128.60
36	1	2619	G	C5-C6-N1	15.31	119.16	111.50
80	6	1143	A	C8-N9-C4	-15.31	99.67	105.80
37	7	116	C	N3-C2-O2	15.31	132.62	121.90
36	1	1392	G	C6-N1-C2	-15.31	115.91	125.10
80	6	358	U	C6-N1-C2	-15.31	111.82	121.00
85	5	2617	U	N3-C4-C5	-15.30	105.42	114.60
85	5	101	G	O5'-P-OP1	15.30	129.06	110.70
85	5	407	A	N9-C4-C5	15.30	111.92	105.80
36	1	187	A	N7-C8-N9	15.30	121.45	113.80
85	5	1897	G	C8-N9-C4	-15.30	100.28	106.40
85	5	3245	A	N1-C6-N6	15.30	127.78	118.60
1	2	1640	U	N1-C2-O2	15.29	133.51	122.80
36	1	1426	C	C2-N3-C4	-15.30	112.25	119.90
36	1	510	G	C6-C5-N7	-15.29	121.23	130.40
85	5	1011	A	N1-C2-N3	15.28	136.94	129.30
85	5	2702	A	C2-N3-C4	-15.29	102.96	110.60
36	1	98	G	C2-N3-C4	-15.27	104.26	111.90
36	1	1919	G	C8-N9-C4	-15.27	100.29	106.40
85	5	506	U	C5-C6-N1	-15.27	115.06	122.70
85	5	2376	G	C4-C5-N7	15.27	116.91	110.80
85	5	2375	G	C6-N1-C2	-15.27	115.94	125.10
36	1	915	A	O5'-P-OP1	-15.27	91.96	105.70
36	1	2366	C	O5'-P-OP2	-15.26	91.96	105.70
85	5	2429	G	C2-N3-C4	-15.26	104.27	111.90
85	5	197	G	O5'-P-OP2	-15.26	91.97	105.70
85	5	2273	G	C4-C5-N7	-15.26	104.70	110.80
85	5	1301	A	N1-C2-N3	15.25	136.93	129.30
85	5	213	A	C8-N9-C4	-15.25	99.70	105.80
85	5	408	A	O5'-P-OP2	-15.24	91.98	105.70
85	5	2900	A	N1-C6-N6	-15.23	109.46	118.60
85	5	2953	U	N3-C2-O2	-15.23	111.54	122.20
85	5	1374	G	C4-C5-N7	15.23	116.89	110.80
38	4	47	C	N1-C2-O2	15.22	128.03	118.90
85	5	2800	G	N1-C6-O6	-15.21	110.77	119.90
36	1	328	U	N1-C2-N3	15.21	124.03	114.90
36	1	1505	C	N3-C4-C5	15.21	127.98	121.90
85	5	1848	G	C4-C5-N7	15.20	116.88	110.80
85	5	1852	G	N7-C8-N9	15.20	120.70	113.10
36	1	3298	C	C6-N1-C2	15.19	126.38	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	652	G	N7-C8-N9	-15.19	105.50	113.10
85	5	2863	G	N1-C6-O6	-15.20	110.78	119.90
36	1	400	G	C4-C5-N7	15.19	116.88	110.80
85	5	658	G	C5-N7-C8	-15.19	96.70	104.30
85	5	2846	U	C5-C6-N1	15.19	130.30	122.70
85	5	2877	G	C4-C5-N7	15.19	116.88	110.80
36	1	1495	U	N1-C2-O2	-15.19	112.17	122.80
36	1	5	G	N1-C6-O6	15.18	129.01	119.90
85	5	1909	A	C5-N7-C8	-15.18	96.31	103.90
85	5	2628	A	C5-C6-N6	15.18	135.84	123.70
85	5	2610	G	C5-C6-O6	-15.18	119.49	128.60
80	6	960	U	O5'-P-OP1	-15.18	92.04	105.70
36	1	578	A	C6-N1-C2	-15.17	109.50	118.60
36	1	928	C	N1-C2-O2	-15.17	109.80	118.90
36	1	1429	G	N1-C2-N2	-15.17	102.55	116.20
85	5	119	U	N3-C2-O2	-15.16	111.58	122.20
36	1	1139	G	C5-C6-N1	-15.16	103.92	111.50
38	8	11	C	O5'-P-OP1	-15.16	92.06	105.70
85	5	644	G	C5-C6-O6	15.16	137.69	128.60
85	5	748	U	N1-C2-N3	15.16	124.00	114.90
85	5	3127	A	O5'-P-OP1	-15.15	92.07	105.70
37	7	17	A	C8-N9-C4	15.15	111.86	105.80
36	1	1822	C	C6-N1-C2	-15.14	114.24	120.30
36	1	412	G	N1-C6-O6	-15.14	110.81	119.90
85	5	1149	G	N1-C6-O6	15.14	128.99	119.90
85	5	2403	G	OP1-P-OP2	-15.14	96.89	119.60
38	4	151	C	N3-C4-C5	-15.14	115.84	121.90
85	5	2861	U	O5'-P-OP2	-15.13	92.08	105.70
36	1	96	G	C5-N7-C8	-15.12	96.74	104.30
36	1	651	G	N1-C6-O6	-15.12	110.83	119.90
1	2	67	A	C8-N9-C4	15.12	111.85	105.80
36	1	665	A	C5-C6-N1	15.12	125.26	117.70
85	5	138	U	O5'-P-OP2	-15.11	92.10	105.70
36	1	785	G	C5-C6-N1	15.11	119.06	111.50
36	1	522	A	N1-C6-N6	15.11	127.67	118.60
38	4	41	A	O5'-P-OP1	-15.11	92.10	105.70
85	5	1389	G	C8-N9-C4	15.11	112.44	106.40
85	5	2389	C	C2-N3-C4	-15.11	112.34	119.90
36	1	328	U	C6-N1-C2	-15.10	111.94	121.00
36	1	1157	G	C8-N9-C4	-15.10	100.36	106.40
36	1	3258	U	O5'-P-OP1	-15.10	92.11	105.70
85	5	2981	U	N1-C2-N3	15.09	123.96	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	583	G	C5-C6-N1	-15.09	103.96	111.50
85	5	2369	G	C5-C6-N1	15.09	119.04	111.50
85	5	3181	C	N3-C4-C5	-15.09	115.86	121.90
85	5	647	A	N1-C2-N3	15.08	136.84	129.30
80	6	1673	G	C5-C6-O6	15.08	137.65	128.60
85	5	37	U	C4-C5-C6	15.08	128.75	119.70
36	1	2280	A	N1-C6-N6	-15.07	109.56	118.60
85	5	1440	G	N1-C6-O6	15.07	128.94	119.90
85	5	2958	A	C8-N9-C4	-15.07	99.77	105.80
36	1	3057	U	C5-C4-O4	15.07	134.94	125.90
36	1	3135	U	C4-C5-C6	15.07	128.74	119.70
85	5	1069	C	N3-C4-C5	15.07	127.93	121.90
85	5	1129	A	O5'-P-OP2	-15.07	92.14	105.70
85	5	879	U	O5'-P-OP1	-15.06	92.14	105.70
80	6	879	G	N1-C6-O6	-15.06	110.86	119.90
85	5	425	G	N1-C2-N3	15.06	132.94	123.90
36	1	1921	A	C8-N9-C4	-15.05	99.78	105.80
80	6	32	U	C4-C5-C6	15.05	128.73	119.70
85	5	3178	A	C5-C6-N1	-15.04	110.18	117.70
85	5	111	C	C6-N1-C2	15.04	126.32	120.30
80	6	872	G	C5-C6-N1	-15.03	103.98	111.50
85	5	2644	C	C2-N3-C4	-15.03	112.38	119.90
85	5	410	U	N1-C2-N3	15.03	123.92	114.90
85	5	2974	U	N1-C2-O2	-15.03	112.28	122.80
36	1	1426	C	N3-C2-O2	-15.02	111.38	121.90
36	1	387	A	C8-N9-C4	-15.02	99.79	105.80
36	1	2350	C	C5-C6-N1	-15.02	113.49	121.00
85	5	2416	U	N3-C4-O4	15.01	129.91	119.40
38	8	15	G	N1-C6-O6	-15.01	110.90	119.90
36	1	3031	G	O5'-P-OP2	-15.00	92.20	105.70
80	6	1200	G	N1-C6-O6	15.00	128.90	119.90
85	5	2381	G	C8-N9-C4	-15.00	100.40	106.40
80	6	335	U	N3-C2-O2	-15.00	111.70	122.20
36	1	957	C	N1-C2-N3	14.99	129.70	119.20
85	5	2621	G	N3-C2-N2	-14.99	109.41	119.90
85	5	213	A	C6-N1-C2	-14.99	109.61	118.60
85	5	1895	A	C8-N9-C4	14.98	111.79	105.80
36	1	1599	G	O5'-P-OP2	-14.98	92.22	105.70
85	5	2429	G	C5-C6-N1	-14.98	104.01	111.50
85	5	795	G	N1-C6-O6	14.98	128.89	119.90
80	6	1115	U	C5-C6-N1	-14.97	115.21	122.70
36	1	320	G	O5'-P-OP2	-14.97	92.23	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	787	G	C4-C5-N7	-14.97	104.81	110.80
80	6	1673	G	C5-N7-C8	14.97	111.78	104.30
85	5	2663	G	C6-C5-N7	-14.96	121.42	130.40
37	7	45	A	O5'-P-OP2	-14.97	92.23	105.70
85	5	1190	A	N1-C6-N6	-14.96	109.62	118.60
36	1	914	A	N1-C6-N6	-14.95	109.63	118.60
85	5	57	A	C8-N9-C4	14.96	111.78	105.80
36	1	2216	G	C8-N9-C4	-14.95	100.42	106.40
36	1	324	A	N1-C2-N3	14.95	136.78	129.30
36	1	1289	G	C2-N3-C4	-14.95	104.43	111.90
85	5	3177	G	C2-N3-C4	-14.95	104.43	111.90
85	5	715	A	C6-N1-C2	-14.94	109.64	118.60
36	1	2376	G	O5'-P-OP2	-14.94	92.25	105.70
85	5	1310	G	N7-C8-N9	14.94	120.57	113.10
36	1	1166	G	N1-C6-O6	14.94	128.86	119.90
85	5	2297	U	N1-C2-O2	-14.93	112.35	122.80
38	4	99	C	C6-N1-C2	14.93	126.27	120.30
85	5	1156	C	C6-N1-C2	-14.93	114.33	120.30
85	5	2623	G	C8-N9-C4	14.93	112.37	106.40
80	6	1599	C	N1-C2-O2	14.93	127.86	118.90
85	5	902	G	C5-C6-O6	-14.93	119.64	128.60
85	5	2767	U	N3-C4-O4	14.93	129.85	119.40
36	1	267	G	C6-C5-N7	-14.92	121.44	130.40
85	5	1047	A	C5-N7-C8	-14.92	96.44	103.90
85	5	947	G	C2-N3-C4	-14.92	104.44	111.90
36	1	921	A	N9-C4-C5	14.92	111.77	105.80
85	5	1295	G	C2-N3-C4	-14.92	104.44	111.90
80	6	1779	U	O5'-P-OP1	-14.92	92.27	105.70
85	5	3330	A	C5-C6-N1	14.92	125.16	117.70
36	1	933	A	C8-N9-C4	-14.91	99.83	105.80
85	5	810	A	C5-N7-C8	-14.91	96.44	103.90
38	4	31	G	C4-C5-N7	14.90	116.76	110.80
36	1	1062	A	C8-N9-C4	-14.90	99.84	105.80
36	1	1759	C	C6-N1-C2	14.90	126.26	120.30
80	6	1643	U	N3-C2-O2	-14.90	111.77	122.20
1	2	1637	G	C5-C6-N1	14.89	118.95	111.50
36	1	2670	G	N1-C6-O6	14.89	128.84	119.90
85	5	1361	U	O5'-P-OP2	14.89	128.57	110.70
85	5	920	A	C8-N9-C4	-14.89	99.84	105.80
85	5	1367	G	C5-C6-N1	-14.89	104.05	111.50
85	5	2199	G	C6-C5-N7	-14.89	121.47	130.40
85	5	638	C	N3-C2-O2	-14.88	111.48	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	703	G	C5-C6-O6	14.88	137.53	128.60
36	1	1132	C	N1-C2-N3	14.88	129.61	119.20
36	1	2609	A	O5'-P-OP1	14.87	128.55	110.70
85	5	2728	G	O5'-P-OP2	-14.88	92.31	105.70
85	5	2318	U	C4-C5-C6	14.87	128.62	119.70
85	5	2656	A	C5-C6-N1	-14.87	110.27	117.70
85	5	3325	G	C2-N3-C4	-14.87	104.47	111.90
85	5	773	G	N1-C6-O6	14.85	128.81	119.90
37	7	63	A	C6-N1-C2	14.85	127.51	118.60
36	1	1196	C	C6-N1-C2	14.85	126.24	120.30
36	1	1678	G	C8-N9-C4	-14.85	100.46	106.40
37	7	88	G	C6-N1-C2	-14.85	116.19	125.10
36	1	515	C	O5'-P-OP2	-14.85	92.34	105.70
85	5	410	U	N3-C4-C5	-14.85	105.69	114.60
85	5	701	G	N7-C8-N9	-14.84	105.68	113.10
85	5	607	A	C5-C6-N6	14.84	135.57	123.70
85	5	963	G	C6-N1-C2	-14.84	116.20	125.10
80	6	469	C	N1-C2-O2	14.84	127.80	118.90
85	5	1424	C	O5'-P-OP1	-14.84	92.35	105.70
85	5	1599	G	C8-N9-C4	14.84	112.33	106.40
85	5	358	G	C5-C6-N1	-14.83	104.08	111.50
80	6	1119	G	C8-N9-C4	-14.83	100.47	106.40
85	5	1292	C	N3-C2-O2	14.83	132.28	121.90
36	1	2831	G	O5'-P-OP1	-14.83	92.36	105.70
85	5	306	A	C8-N9-C4	14.83	111.73	105.80
36	1	798	G	OP1-P-OP2	-14.82	97.37	119.60
36	1	870	G	N1-C6-O6	14.82	128.79	119.90
36	1	1459	C	N1-C2-N3	14.82	129.57	119.20
36	1	1847	A	N1-C6-N6	-14.82	109.71	118.60
85	5	1113	G	C5-C6-N1	-14.82	104.09	111.50
36	1	2645	G	C4-C5-N7	-14.81	104.87	110.80
85	5	1155	C	C5-C4-N4	-14.81	109.83	120.20
85	5	2726	C	C5-C4-N4	14.81	130.57	120.20
85	5	922	U	N1-C2-O2	14.81	133.16	122.80
85	5	1879	A	C5-N7-C8	-14.81	96.50	103.90
36	1	338	A	N1-C2-N3	14.81	136.70	129.30
85	5	3120	C	C2-N3-C4	14.80	127.30	119.90
36	1	3109	G	N1-C6-O6	-14.80	111.02	119.90
85	5	2762	A	C8-N9-C4	-14.80	99.88	105.80
85	5	3240	C	N3-C4-C5	14.80	127.82	121.90
36	1	110	G	C2-N3-C4	-14.79	104.50	111.90
36	1	2715	A	C5-C6-N1	14.79	125.10	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2915	U	N1-C2-O2	-14.79	112.45	122.80
85	5	2830	G	C5-C6-N1	-14.79	104.11	111.50
85	5	1428	A	N1-C6-N6	-14.79	109.73	118.60
85	5	1919	G	C8-N9-C4	-14.78	100.49	106.40
36	1	761	A	C2-N3-C4	-14.78	103.21	110.60
85	5	407	A	C4-C5-C6	14.78	124.39	117.00
85	5	244	G	C8-N9-C4	14.77	112.31	106.40
85	5	826	G	C6-C5-N7	-14.77	121.54	130.40
85	5	110	G	OP1-P-OP2	-14.77	97.44	119.60
85	5	1656	A	O5'-P-OP2	-14.77	92.41	105.70
36	1	1110	U	O5'-P-OP2	-14.77	92.41	105.70
85	5	2920	U	N1-C2-O2	-14.77	112.46	122.80
85	5	1124	U	N3-C2-O2	-14.76	111.87	122.20
85	5	812	G	C5-C6-N1	-14.76	104.12	111.50
1	2	1283	A	N1-C6-N6	-14.75	109.75	118.60
85	5	1862	U	N3-C4-O4	14.75	129.73	119.40
85	5	878	G	C8-N9-C4	-14.75	100.50	106.40
1	2	1315	C	C6-N1-C2	-14.74	114.40	120.30
80	6	1498	G	C8-N9-C1'	14.74	146.16	127.00
36	1	1397	C	N1-C2-O2	-14.73	110.06	118.90
36	1	25	U	N1-C2-O2	-14.73	112.49	122.80
85	5	383	G	C5-C6-O6	14.73	137.44	128.60
36	1	39	A	N1-C6-N6	-14.73	109.76	118.60
85	5	345	G	C2-N3-C4	-14.72	104.54	111.90
36	1	2868	U	N3-C2-O2	-14.72	111.90	122.20
85	5	2380	U	N1-C2-O2	-14.72	112.50	122.80
85	5	1393	A	C8-N9-C4	-14.72	99.91	105.80
36	1	363	G	N1-C6-O6	-14.71	111.07	119.90
36	1	267	G	C4-C5-N7	14.71	116.68	110.80
36	1	1154	A	C5-C6-N1	14.71	125.06	117.70
85	5	518	G	C5-C6-O6	14.71	137.43	128.60
85	5	1753	G	C5-C6-O6	-14.71	119.78	128.60
85	5	1413	G	C8-N9-C4	-14.70	100.52	106.40
85	5	774	G	C4-C5-C6	14.69	127.61	118.80
36	1	909	G	C8-N9-C4	14.69	112.28	106.40
85	5	2421	U	N1-C2-N3	14.69	123.71	114.90
36	1	3373	U	C5-C6-N1	-14.68	115.36	122.70
85	5	98	G	C5-C6-N1	14.68	118.84	111.50
85	5	756	U	N1-C2-O2	-14.68	112.53	122.80
85	5	2400	G	C4-C5-N7	14.68	116.67	110.80
85	5	2737	C	N3-C4-C5	-14.68	116.03	121.90
36	1	168	U	N1-C2-N3	14.67	123.70	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	871	U	N3-C2-O2	14.67	132.47	122.20
85	5	1375	G	C2-N3-C4	-14.67	104.56	111.90
85	5	2208	A	C6-N1-C2	14.67	127.40	118.60
85	5	2943	G	C5-C6-O6	-14.67	119.80	128.60
36	1	2388	U	O5'-P-OP1	14.67	128.30	110.70
36	1	88	A	N1-C2-N3	14.67	136.63	129.30
38	4	110	C	N1-C2-O2	-14.67	110.10	118.90
38	4	67	U	C5-C6-N1	-14.66	115.37	122.70
85	5	3225	C	C5-C4-N4	-14.66	109.94	120.20
36	1	2800	G	C6-N1-C2	-14.66	116.31	125.10
80	6	576	G	N1-C6-O6	14.66	128.69	119.90
85	5	2824	G	N3-C2-N2	-14.66	109.64	119.90
36	1	2374	C	N1-C2-O2	14.66	127.69	118.90
85	5	513	G	C4-C5-N7	-14.66	104.94	110.80
1	2	312	A	C8-N9-C4	-14.65	99.94	105.80
37	3	88	G	O5'-P-OP2	-14.65	92.51	105.70
36	1	1408	G	C5-C6-O6	-14.65	119.81	128.60
36	1	2617	U	C4-C5-C6	14.65	128.49	119.70
85	5	1399	A	C6-N1-C2	14.65	127.39	118.60
85	5	3172	A	C6-N1-C2	-14.65	109.81	118.60
85	5	358	G	N3-C4-C5	14.64	135.92	128.60
85	5	1879	A	O5'-P-OP1	14.64	128.27	110.70
85	5	509	U	C5-C4-O4	14.64	134.68	125.90
85	5	1855	U	N3-C2-O2	-14.64	111.95	122.20
36	1	1426	C	C5-C6-N1	-14.64	113.68	121.00
37	7	84	A	C6-N1-C2	-14.64	109.82	118.60
85	5	801	A	N1-C2-N3	14.63	136.62	129.30
85	5	921	A	C5-C6-N1	14.62	125.01	117.70
85	5	89	A	C2-N3-C4	-14.62	103.29	110.60
85	5	1889	G	C4-C5-N7	14.62	116.65	110.80
85	5	2761	G	C5-C6-O6	-14.62	119.83	128.60
85	5	1661	G	C4-C5-N7	14.62	116.65	110.80
85	5	3348	G	C8-N9-C4	14.61	112.25	106.40
80	6	1750	A	C8-N9-C4	14.61	111.64	105.80
85	5	3000	A	N1-C6-N6	14.61	127.37	118.60
85	5	686	G	C2-N3-C4	-14.61	104.60	111.90
36	1	2417	U	N3-C4-C5	14.61	123.36	114.60
36	1	651	G	C5-N7-C8	14.60	111.60	104.30
36	1	2682	C	C5-C6-N1	-14.60	113.70	121.00
36	1	2401	A	C4-C5-N7	14.59	118.00	110.70
36	1	3311	C	N3-C4-C5	14.59	127.74	121.90
80	6	475	A	C5-C6-N1	14.59	125.00	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	408	A	N1-C6-N6	-14.59	109.84	118.60
85	5	2188	A	C2-N3-C4	-14.59	103.30	110.60
1	2	1640	U	N1-C2-N3	-14.58	106.15	114.90
36	1	806	A	C2-N3-C4	-14.58	103.31	110.60
85	5	1849	C	C4-C5-C6	14.58	124.69	117.40
36	1	583	G	N1-C2-N3	14.57	132.64	123.90
36	1	1825	G	N3-C4-C5	14.57	135.89	128.60
36	1	2816	G	C2-N3-C4	-14.57	104.61	111.90
38	4	152	G	C2-N3-C4	-14.57	104.62	111.90
37	7	63	A	C5-N7-C8	14.57	111.18	103.90
85	5	1152	G	C6-C5-N7	-14.56	121.66	130.40
85	5	2628	A	N1-C6-N6	-14.56	109.86	118.60
80	6	1672	G	N1-C6-O6	-14.56	111.16	119.90
36	1	653	A	C4-C5-N7	14.56	117.98	110.70
36	1	3143	C	N1-C2-O2	-14.56	110.16	118.90
85	5	1281	G	C4-C5-N7	14.56	116.62	110.80
1	2	1716	C	N1-C2-O2	-14.56	110.17	118.90
36	1	2401	A	N1-C6-N6	14.56	127.33	118.60
85	5	942	U	N3-C4-C5	-14.56	105.86	114.60
85	5	2863	G	OP1-P-O3'	14.55	137.21	105.20
36	1	346	C	C5-C6-N1	-14.54	113.73	121.00
36	1	641	C	N3-C4-C5	-14.54	116.08	121.90
80	6	463	U	N1-C2-O2	-14.54	112.62	122.80
85	5	779	G	O5'-P-OP1	-14.54	92.61	105.70
37	7	94	C	N3-C4-C5	14.54	127.72	121.90
85	5	225	C	C6-N1-C2	-14.54	114.48	120.30
85	5	994	G	N1-C6-O6	-14.54	111.18	119.90
38	8	92	A	C4-C5-N7	14.54	117.97	110.70
36	1	932	U	C2-N3-C4	-14.53	118.28	127.00
38	4	80	A	C8-N9-C4	14.53	111.61	105.80
36	1	154	U	O5'-P-OP1	-14.53	92.62	105.70
36	1	267	G	C5-C6-N1	-14.53	104.24	111.50
80	6	358	U	N3-C4-C5	-14.53	105.88	114.60
85	5	2907	G	C2-N3-C4	-14.53	104.64	111.90
36	1	400	G	C5-C6-O6	-14.52	119.89	128.60
36	1	640	U	C2-N3-C4	-14.52	118.29	127.00
36	1	2937	G	C8-N9-C4	14.52	112.21	106.40
85	5	208	C	O5'-P-OP2	14.52	128.13	110.70
85	5	2284	C	N1-C2-N3	-14.52	109.04	119.20
36	1	857	G	N7-C8-N9	14.52	120.36	113.10
36	1	2379	U	N1-C2-N3	14.52	123.61	114.90
85	5	1542	G	C5-C6-O6	-14.51	119.89	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	224	C	C5-C6-N1	14.51	128.25	121.00
36	1	353	G	N1-C6-O6	-14.51	111.19	119.90
36	1	378	A	C8-N9-C4	14.51	111.60	105.80
85	5	219	A	O5'-P-OP1	-14.51	92.64	105.70
36	1	1375	G	C4-C5-C6	14.51	127.50	118.80
85	5	886	C	C6-N1-C2	-14.51	114.50	120.30
85	5	2656	A	N1-C2-N3	14.51	136.55	129.30
37	7	39	C	O5'-P-OP2	-14.51	92.64	105.70
85	5	941	G	N1-C6-O6	-14.50	111.20	119.90
38	8	110	C	N3-C4-C5	-14.50	116.10	121.90
36	1	2410	U	C5-C4-O4	-14.50	117.20	125.90
36	1	2618	G	N1-C6-O6	-14.50	111.20	119.90
80	6	1643	U	C5-C6-N1	-14.49	115.45	122.70
36	1	233	C	C5-C6-N1	-14.49	113.75	121.00
36	1	2758	A	C5-N7-C8	14.49	111.14	103.90
80	6	1449	U	N3-C4-C5	-14.49	105.91	114.60
85	5	409	A	C5-C6-N1	14.48	124.94	117.70
85	5	3052	G	C4-C5-N7	-14.48	105.01	110.80
85	5	645	A	C2-N3-C4	14.48	117.84	110.60
85	5	3190	C	C6-N1-C2	-14.48	114.51	120.30
85	5	1370	G	O5'-P-OP1	-14.48	92.67	105.70
85	5	2644	C	O5'-P-OP1	-14.48	92.67	105.70
36	1	2610	G	C8-N9-C4	-14.47	100.61	106.40
85	5	788	C	N3-C4-C5	-14.47	116.11	121.90
85	5	1480	G	N1-C6-O6	14.47	128.58	119.90
85	5	2994	A	C8-N9-C4	-14.47	100.01	105.80
85	5	1140	G	C8-N9-C4	14.47	112.19	106.40
85	5	3086	A	C2-N3-C4	-14.47	103.37	110.60
36	1	936	A	C2-N3-C4	-14.46	103.37	110.60
85	5	2420	C	N3-C4-N4	14.46	128.12	118.00
85	5	2798	C	N3-C4-N4	-14.46	107.88	118.00
85	5	652	G	C8-N9-C4	14.46	112.18	106.40
85	5	1321	G	C2-N3-C4	-14.46	104.67	111.90
80	6	1673	G	N1-C2-N3	14.45	132.57	123.90
85	5	1006	A	C8-N9-C4	14.46	111.58	105.80
36	1	1308	A	N7-C8-N9	14.45	121.03	113.80
85	5	3216	G	O5'-P-OP2	-14.45	92.69	105.70
85	5	2944	U	C6-N1-C2	-14.45	112.33	121.00
85	5	2863	G	C8-N9-C4	-14.44	100.62	106.40
36	1	678	G	N1-C6-O6	14.44	128.56	119.90
36	1	388	G	C8-N9-C4	-14.44	100.62	106.40
36	1	2824	G	N3-C4-C5	14.44	135.82	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2732	G	C2-N3-C4	-14.43	104.68	111.90
36	1	427	C	N3-C4-C5	-14.43	116.13	121.90
36	1	1339	C	C6-N1-C2	-14.43	114.53	120.30
37	3	86	U	N1-C2-N3	-14.43	106.24	114.90
85	5	2995	A	N1-C2-N3	14.43	136.51	129.30
80	6	1673	G	N3-C2-N2	-14.43	109.80	119.90
80	6	48	G	O5'-P-OP2	-14.42	92.72	105.70
37	7	4	U	N3-C2-O2	-14.42	112.11	122.20
85	5	2775	U	N1-C2-N3	14.41	123.55	114.90
80	6	1641	C	N3-C4-C5	-14.41	116.14	121.90
36	1	2771	U	C5-C4-O4	-14.41	117.25	125.90
36	1	949	C	N1-C2-O2	-14.40	110.26	118.90
85	5	2155	G	C8-N9-C4	14.40	112.16	106.40
85	5	2843	U	N3-C2-O2	-14.40	112.12	122.20
85	5	3102	G	C2-N3-C4	-14.40	104.70	111.90
80	6	1678	A	C2-N3-C4	-14.40	103.40	110.60
85	5	96	G	C5-C6-N1	-14.39	104.30	111.50
1	2	1396	U	N3-C2-O2	-14.39	112.12	122.20
36	1	578	A	O5'-P-OP1	-14.39	92.75	105.70
85	5	2290	C	O5'-P-OP2	-14.39	92.75	105.70
36	1	609	G	C4-C5-N7	14.39	116.56	110.80
36	1	1165	A	C5-C6-N1	-14.39	110.50	117.70
85	5	2352	A	C8-N9-C4	14.39	111.56	105.80
85	5	2683	U	O5'-P-OP1	-14.39	92.75	105.70
36	1	927	C	C5-C6-N1	14.39	128.19	121.00
80	6	1264	G	C6-C5-N7	14.39	139.03	130.40
37	7	80	G	C6-N1-C2	-14.39	116.47	125.10
36	1	1151	U	N3-C4-C5	-14.38	105.97	114.60
37	3	34	C	N1-C2-O2	-14.38	110.27	118.90
85	5	141	C	N1-C2-O2	-14.38	110.27	118.90
36	1	932	U	C5-C6-N1	-14.38	115.51	122.70
36	1	2896	A	C5-C6-N1	-14.38	110.51	117.70
36	1	511	G	N3-C2-N2	-14.38	109.83	119.90
36	1	2711	C	O5'-P-OP1	-14.37	92.77	105.70
36	1	2954	U	N3-C4-O4	14.37	129.46	119.40
85	5	1718	G	N1-C6-O6	14.37	128.52	119.90
80	6	591	A	C8-N9-C4	14.37	111.55	105.80
85	5	607	A	N1-C6-N6	-14.37	109.98	118.60
85	5	3377	G	C2-N3-C4	14.37	119.08	111.90
36	1	63	A	N1-C6-N6	14.36	127.22	118.60
36	1	59	G	C5-C6-O6	-14.36	119.98	128.60
85	5	600	G	C5-C6-O6	-14.36	119.98	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	25	U	N3-C4-C5	-14.36	105.99	114.60
80	6	1663	G	OP1-P-OP2	-14.36	98.07	119.60
85	5	1221	A	O5'-P-OP1	-14.36	92.78	105.70
85	5	649	A	N7-C8-N9	14.36	120.98	113.80
1	2	1575	A	C8-N9-C4	-14.35	100.06	105.80
36	1	992	A	C2-N3-C4	-14.34	103.43	110.60
36	1	2719	U	C2-N3-C4	-14.34	118.39	127.00
36	1	2927	C	O5'-P-OP2	-14.34	92.79	105.70
38	8	3	A	C2-N3-C4	14.34	117.77	110.60
80	6	1109	G	C4-C5-C6	-14.34	110.20	118.80
36	1	899	U	N1-C2-N3	14.34	123.50	114.90
36	1	1136	A	N1-C2-N3	14.34	136.47	129.30
36	1	1703	U	C5-C6-N1	14.34	129.87	122.70
36	1	2201	G	N1-C6-O6	14.34	128.50	119.90
85	5	499	G	C5-C6-N1	-14.34	104.33	111.50
36	1	2908	G	C5-C6-N1	14.33	118.67	111.50
37	7	80	G	N1-C6-O6	-14.33	111.30	119.90
85	5	421	G	O5'-P-OP2	-14.33	92.80	105.70
85	5	1200	A	N1-C6-N6	14.33	127.20	118.60
36	1	1375	G	C2-N3-C4	-14.33	104.74	111.90
38	4	27	U	N3-C2-O2	-14.32	112.18	122.20
85	5	2607	G	N1-C6-O6	14.32	128.49	119.90
36	1	793	C	N1-C2-O2	-14.31	110.31	118.90
36	1	3367	C	C5-C6-N1	-14.31	113.84	121.00
85	5	1935	G	C8-N9-C4	-14.31	100.67	106.40
85	5	2862	U	C5-C6-N1	-14.31	115.55	122.70
85	5	3104	U	N3-C2-O2	14.31	132.22	122.20
85	5	1306	G	N7-C8-N9	14.31	120.25	113.10
36	1	1173	U	N1-C2-N3	14.31	123.48	114.90
36	1	1522	U	C2-N3-C4	-14.30	118.42	127.00
85	5	238	A	O5'-P-OP1	-14.30	92.83	105.70
85	5	3054	U	C6-N1-C2	-14.30	112.42	121.00
80	6	1115	U	C6-N1-C2	14.30	129.58	121.00
1	2	92	A	C8-N9-C4	14.30	111.52	105.80
36	1	1140	G	C5-C6-O6	14.30	137.18	128.60
36	1	3082	C	O5'-P-OP1	-14.30	92.83	105.70
36	1	1893	A	C2-N3-C4	-14.29	103.45	110.60
85	5	1430	U	O5'-P-OP2	-14.29	92.83	105.70
85	5	1131	G	N1-C6-O6	14.29	128.48	119.90
36	1	1207	G	N1-C6-O6	14.29	128.47	119.90
85	5	2927	C	C5-C6-N1	14.29	128.15	121.00
85	5	31	C	C2-N3-C4	-14.29	112.76	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2368	A	N7-C8-N9	14.29	120.94	113.80
36	1	151	A	N1-C6-N6	14.28	127.17	118.60
85	5	274	G	C5-C6-N1	-14.28	104.36	111.50
85	5	2698	G	N1-C6-O6	-14.28	111.33	119.90
36	1	3264	G	C8-N9-C4	14.27	112.11	106.40
85	5	2282	U	C5-C6-N1	-14.27	115.56	122.70
36	1	636	C	C5-C4-N4	-14.27	110.21	120.20
36	1	2956	A	C6-N1-C2	-14.27	110.04	118.60
85	5	2335	G	N3-C4-C5	-14.26	121.47	128.60
85	5	3085	G	O5'-P-OP2	-14.26	92.86	105.70
80	6	570	A	O5'-P-OP2	-14.26	92.87	105.70
85	5	1330	A	C6-N1-C2	-14.26	110.05	118.60
85	5	672	A	C5-C6-N1	14.26	124.83	117.70
85	5	2871	G	C8-N9-C4	-14.25	100.70	106.40
36	1	2619	G	O5'-P-OP1	-14.25	92.88	105.70
36	1	400	G	C8-N9-C4	-14.24	100.70	106.40
85	5	2830	G	C4-C5-N7	-14.24	105.11	110.80
85	5	2721	A	C8-N9-C4	-14.24	100.11	105.80
85	5	1297	C	C6-N1-C2	-14.23	114.61	120.30
85	5	2132	C	C2-N3-C4	-14.23	112.78	119.90
85	5	227	G	O5'-P-OP1	-14.23	92.89	105.70
85	5	37	U	N3-C4-C5	-14.23	106.06	114.60
36	1	54	C	C2-N3-C4	-14.23	112.78	119.90
80	6	1418	G	N1-C6-O6	14.23	128.44	119.90
36	1	2811	A	N7-C8-N9	14.22	120.91	113.80
85	5	2417	U	C6-N1-C2	-14.22	112.47	121.00
80	6	446	A	C8-N9-C4	-14.21	100.12	105.80
80	6	1649	G	N3-C4-N9	-14.21	117.47	126.00
80	6	459	G	N1-C6-O6	14.21	128.42	119.90
36	1	2355	G	N1-C6-O6	14.20	128.42	119.90
38	4	115	C	C2-N3-C4	-14.20	112.80	119.90
36	1	751	A	N7-C8-N9	14.20	120.90	113.80
36	1	823	C	N1-C2-O2	-14.20	110.38	118.90
85	5	1838	G	C5-C6-O6	-14.20	120.08	128.60
85	5	1895	A	C5-C6-N6	-14.20	112.34	123.70
36	1	2401	A	C5-C6-N1	-14.20	110.60	117.70
36	1	2105	G	C8-N9-C4	-14.19	100.72	106.40
85	5	2715	A	N9-C4-C5	14.19	111.47	105.80
36	1	80	G	N1-C2-N3	14.19	132.41	123.90
36	1	2736	A	C2-N3-C4	-14.19	103.51	110.60
85	5	1432	C	C2-N3-C4	-14.19	112.81	119.90
36	1	2306	C	N1-C2-O2	14.18	127.41	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2954	U	C5-C4-O4	14.18	134.41	125.90
85	5	3178	A	C4-C5-C6	14.18	124.09	117.00
36	1	425	G	N1-C2-N2	-14.18	103.44	116.20
36	1	2777	G	N9-C4-C5	14.17	111.07	105.40
80	6	1023	A	O5'-P-OP1	-14.17	92.95	105.70
36	1	2179	C	C6-N1-C2	-14.17	114.63	120.30
85	5	1429	G	N1-C2-N2	-14.17	103.45	116.20
36	1	651	G	C4-C5-N7	-14.16	105.13	110.80
85	5	3107	U	C5-C4-O4	-14.16	117.40	125.90
85	5	1543	G	C8-N9-C4	-14.16	100.74	106.40
80	6	871	G	C2-N3-C4	-14.15	104.82	111.90
85	5	3309	G	C8-N9-C4	-14.15	100.74	106.40
36	1	3000	A	C2-N3-C4	-14.15	103.52	110.60
85	5	974	G	N3-C2-N2	-14.15	109.99	119.90
85	5	2312	A	C5-C6-N1	14.15	124.78	117.70
36	1	286	U	C6-N1-C2	-14.14	112.51	121.00
36	1	2752	U	N1-C2-N3	14.14	123.38	114.90
38	8	18	U	O5'-P-OP2	-14.14	92.97	105.70
85	5	518	G	N3-C2-N2	-14.14	110.00	119.90
85	5	2930	A	C8-N9-C4	14.14	111.46	105.80
85	5	1432	C	N3-C4-C5	14.14	127.56	121.90
80	6	842	C	C6-N1-C2	-14.13	114.65	120.30
85	5	1221	A	O5'-P-OP2	14.13	127.66	110.70
80	6	1090	C	P-O3'-C3'	-14.13	102.75	119.70
36	1	2637	A	N1-C2-N3	14.12	136.36	129.30
36	1	2873	U	C4-C5-C6	14.12	128.17	119.70
80	6	1145	U	N3-C4-O4	14.12	129.28	119.40
85	5	391	A	O5'-P-OP1	14.12	127.64	110.70
85	5	2760	C	N1-C2-O2	-14.12	110.43	118.90
85	5	689	U	C5-C6-N1	-14.12	115.64	122.70
36	1	2621	G	N1-C6-O6	14.11	128.37	119.90
38	8	96	A	C5-C6-N1	14.11	124.76	117.70
36	1	3103	A	C5-C6-N1	-14.11	110.65	117.70
85	5	2187	G	O5'-P-OP2	14.11	127.63	110.70
36	1	2733	A	N1-C2-N3	14.10	136.35	129.30
36	1	363	G	N1-C2-N2	-14.10	103.51	116.20
36	1	942	U	N3-C4-O4	14.10	129.27	119.40
80	6	987	G	C8-N9-C4	-14.10	100.76	106.40
85	5	61	A	C2-N3-C4	-14.10	103.55	110.60
85	5	1868	G	C6-C5-N7	-14.10	121.94	130.40
36	1	25	U	O5'-P-OP2	14.09	127.61	110.70
36	1	727	G	N1-C2-N2	-14.09	103.52	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2173	U	C6-N1-C2	-14.09	112.55	121.00
85	5	1903	U	C6-N1-C2	-14.09	112.54	121.00
36	1	1183	C	N3-C4-C5	14.09	127.54	121.90
80	6	1751	C	C6-N1-C2	14.09	125.94	120.30
85	5	2768	U	O5'-P-OP1	-14.09	93.02	105.70
80	6	825	U	N3-C2-O2	14.09	132.06	122.20
36	1	883	A	N1-C2-N3	14.09	136.34	129.30
85	5	3036	G	C5-C6-N1	-14.09	104.46	111.50
85	5	753	C	C4-C5-C6	-14.08	110.36	117.40
36	1	1184	A	O5'-P-OP2	-14.08	93.03	105.70
38	4	131	A	C5-C6-N1	14.08	124.74	117.70
80	6	1017	U	C6-N1-C2	-14.08	112.55	121.00
36	1	1760	A	C5-C6-N1	14.07	124.74	117.70
36	1	2895	G	C8-N9-C4	14.07	112.03	106.40
36	1	796	U	C6-N1-C2	-14.07	112.56	121.00
36	1	2871	G	C5-N7-C8	-14.07	97.27	104.30
85	5	61	A	N1-C2-N3	14.07	136.34	129.30
80	6	1672	G	C5-C6-N1	14.07	118.53	111.50
85	5	755	A	O5'-P-OP2	-14.07	93.04	105.70
80	6	941	A	N1-C6-N6	-14.06	110.16	118.60
85	5	3215	A	C5-N7-C8	-14.06	96.87	103.90
36	1	2618	G	C6-N1-C2	-14.06	116.66	125.10
80	6	340	U	N1-C2-O2	-14.06	112.96	122.80
85	5	216	G	C2-N3-C4	-14.06	104.87	111.90
85	5	3008	A	N1-C2-N3	14.06	136.33	129.30
85	5	880	G	C4-C5-N7	-14.06	105.18	110.80
38	4	13	A	C8-N9-C4	-14.06	100.18	105.80
85	5	3335	A	N1-C6-N6	14.06	127.03	118.60
36	1	3000	A	N7-C8-N9	-14.06	106.77	113.80
37	3	41	G	N1-C6-O6	14.06	128.33	119.90
80	6	555	A	C8-N9-C4	-14.05	100.18	105.80
80	6	1017	U	O5'-P-OP1	-14.05	93.05	105.70
85	5	1406	A	C5-C6-N1	14.05	124.73	117.70
85	5	1742	U	C5-C6-N1	14.05	129.73	122.70
85	5	587	U	N1-C2-N3	-14.05	106.47	114.90
36	1	913	A	O5'-P-OP1	-14.04	93.06	105.70
85	5	2416	U	N3-C4-C5	-14.04	106.17	114.60
38	4	138	A	N1-C6-N6	14.04	127.02	118.60
36	1	1666	G	N1-C6-O6	14.03	128.32	119.90
85	5	960	U	C5-C4-O4	-14.03	117.48	125.90
38	8	15	G	C6-N1-C2	-14.03	116.68	125.10
85	5	582	G	N1-C2-N3	14.03	132.32	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1094	G	C8-N9-C4	14.03	112.01	106.40
36	1	2201	G	C6-C5-N7	-14.03	121.98	130.40
36	1	3362	A	C6-C5-N7	-14.02	122.48	132.30
36	1	2752	U	C5-C6-N1	-14.02	115.69	122.70
36	1	2601	A	N7-C8-N9	-14.02	106.79	113.80
36	1	2636	A	N7-C8-N9	14.02	120.81	113.80
85	5	330	G	C5-C6-O6	-14.02	120.19	128.60
37	7	74	C	O5'-P-OP1	-14.02	93.08	105.70
85	5	413	U	N1-C2-O2	-14.01	112.99	122.80
85	5	2414	G	C8-N9-C4	14.01	112.00	106.40
36	1	168	U	C5-C6-N1	-14.01	115.70	122.70
85	5	2319	U	C2-N3-C4	14.01	135.41	127.00
80	6	122	U	C2-N3-C4	14.01	135.40	127.00
80	6	1000	C	C2-N3-C4	-14.01	112.90	119.90
37	7	63	A	C5-C6-N6	14.01	134.90	123.70
36	1	3274	A	C8-N9-C4	-14.00	100.20	105.80
85	5	2820	A	C5-N7-C8	-14.00	96.90	103.90
36	1	2810	C	OP1-P-OP2	-14.00	98.60	119.60
36	1	337	G	C2-N3-C4	-14.00	104.90	111.90
80	6	947	U	C5-C6-N1	14.00	129.70	122.70
85	5	295	A	N9-C4-C5	-14.00	100.20	105.80
85	5	816	A	N1-C6-N6	-13.99	110.20	118.60
36	1	646	A	N9-C4-C5	13.99	111.40	105.80
85	5	1000	C	C6-N1-C2	13.99	125.90	120.30
85	5	870	G	C8-N9-C4	-13.99	100.81	106.40
36	1	1760	A	N1-C6-N6	-13.98	110.21	118.60
85	5	1903	U	N3-C4-O4	13.98	129.19	119.40
36	1	522	A	C2-N3-C4	-13.98	103.61	110.60
85	5	2316	G	O5'-P-OP2	-13.97	93.12	105.70
37	7	46	A	C8-N9-C4	-13.97	100.21	105.80
85	5	2369	G	C6-N1-C2	-13.97	116.72	125.10
85	5	358	G	N3-C2-N2	-13.97	110.12	119.90
37	7	49	G	N1-C6-O6	13.97	128.28	119.90
36	1	2719	U	N1-C2-N3	13.97	123.28	114.90
85	5	1448	U	C5-C6-N1	-13.97	115.72	122.70
85	5	2300	G	C6-N1-C2	-13.97	116.72	125.10
1	2	1024	G	O5'-P-OP1	-13.97	93.13	105.70
36	1	1897	G	C5-C6-N1	13.96	118.48	111.50
36	1	1461	A	N1-C6-N6	13.96	126.98	118.60
1	2	1107	A	C2-N3-C4	-13.96	103.62	110.60
36	1	1433	A	N9-C4-C5	13.96	111.38	105.80
36	1	1192	C	C5-C6-N1	-13.95	114.02	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	206	A	C8-N9-C4	-13.95	100.22	105.80
85	5	723	U	C5-C6-N1	-13.95	115.72	122.70
36	1	497	C	C5-C6-N1	-13.95	114.03	121.00
85	5	1536	G	O5'-P-OP1	-13.95	93.15	105.70
85	5	3136	G	O5'-P-OP1	13.95	127.44	110.70
85	5	2351	U	N1-C2-O2	13.94	132.56	122.80
85	5	908	G	C5-C6-O6	-13.94	120.23	128.60
36	1	180	C	N3-C4-C5	13.94	127.47	121.90
85	5	1841	A	N1-C6-N6	13.94	126.96	118.60
85	5	1300	G	O5'-P-OP2	-13.93	93.16	105.70
36	1	999	G	C5-C6-N1	13.93	118.47	111.50
36	1	2427	U	N3-C4-C5	13.93	122.96	114.60
36	1	3030	G	C8-N9-C4	-13.93	100.83	106.40
38	4	108	C	N3-C4-C5	-13.93	116.33	121.90
85	5	1293	U	N1-C2-N3	13.93	123.26	114.90
1	2	1257	C	C6-N1-C2	-13.92	114.73	120.30
1	2	1010	A	C5-N7-C8	-13.92	96.94	103.90
36	1	2186	U	C5-C4-O4	13.92	134.25	125.90
85	5	96	G	N3-C4-C5	13.92	135.56	128.60
85	5	229	G	N3-C2-N2	-13.92	110.16	119.90
85	5	1944	U	C6-N1-C2	-13.92	112.65	121.00
36	1	499	G	C4-C5-N7	13.92	116.37	110.80
37	7	91	G	N3-C4-C5	-13.92	121.64	128.60
36	1	1371	G	N1-C2-N3	13.92	132.25	123.90
85	5	2863	G	C5-C6-O6	13.91	136.95	128.60
36	1	3080	G	C5-C6-N1	13.91	118.46	111.50
80	6	1138	A	N1-C6-N6	-13.91	110.25	118.60
85	5	1403	C	C2-N3-C4	-13.91	112.94	119.90
36	1	672	A	N3-C4-C5	13.91	136.53	126.80
85	5	587	U	C6-N1-C2	13.91	129.34	121.00
36	1	56	G	C4-C5-N7	13.90	116.36	110.80
38	8	3	A	O5'-P-OP1	-13.90	93.19	105.70
80	6	1041	G	C8-N9-C4	-13.90	100.84	106.40
36	1	780	A	N1-C2-N3	13.90	136.25	129.30
36	1	1433	A	C6-N1-C2	-13.90	110.26	118.60
36	1	2099	A	C5-C6-N1	-13.90	110.75	117.70
85	5	3026	G	C5-C6-O6	-13.89	120.26	128.60
85	5	2400	G	C5-N7-C8	-13.89	97.35	104.30
36	1	512	U	N3-C4-C5	-13.89	106.27	114.60
85	5	2375	G	C8-N9-C4	-13.89	100.84	106.40
38	4	123	G	C5-C6-O6	-13.89	120.27	128.60
85	5	2960	C	C4-C5-C6	13.88	124.34	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3135	U	N1-C2-N3	13.88	123.23	114.90
36	1	3187	A	C5-C6-N1	13.88	124.64	117.70
85	5	965	A	C5-N7-C8	-13.88	96.96	103.90
80	6	1418	G	C5-C6-N1	-13.88	104.56	111.50
85	5	777	U	C6-N1-C1'	13.88	140.63	121.20
36	1	846	A	C2-N3-C4	-13.88	103.66	110.60
85	5	2966	G	C4-C5-N7	13.87	116.35	110.80
36	1	924	G	C8-N9-C4	-13.87	100.85	106.40
85	5	2767	U	N3-C4-C5	-13.87	106.28	114.60
85	5	2888	U	C2-N3-C4	-13.87	118.68	127.00
85	5	1131	G	N3-C2-N2	-13.87	110.19	119.90
85	5	2607	G	C2-N3-C4	-13.87	104.97	111.90
36	1	363	G	C5-C6-N1	13.86	118.43	111.50
36	1	653	A	C5-N7-C8	-13.86	96.97	103.90
36	1	758	C	N1-C2-O2	-13.86	110.58	118.90
85	5	658	G	O5'-P-OP2	-13.86	93.22	105.70
85	5	3149	G	O5'-P-OP1	13.86	127.33	110.70
36	1	3382	U	O5'-P-OP2	-13.86	93.23	105.70
80	6	368	U	N3-C2-O2	-13.86	112.50	122.20
85	5	394	G	C5-C6-N1	-13.86	104.57	111.50
85	5	508	U	C5-C6-N1	13.86	129.63	122.70
36	1	2355	G	C2-N3-C4	-13.86	104.97	111.90
36	1	2917	G	C2-N3-C4	13.86	118.83	111.90
36	1	846	A	C5-C6-N1	-13.85	110.77	117.70
36	1	928	C	N1-C2-N3	13.85	128.89	119.20
85	5	3052	G	N1-C6-O6	-13.85	111.59	119.90
80	6	403	G	C2-N3-C4	-13.84	104.98	111.90
80	6	609	U	C5-C6-N1	-13.84	115.78	122.70
36	1	789	A	C8-N9-C4	-13.84	100.26	105.80
85	5	1668	G	O5'-P-OP2	-13.84	93.25	105.70
80	6	324	U	C5-C6-N1	13.83	129.62	122.70
85	5	3036	G	C6-C5-N7	-13.83	122.10	130.40
85	5	3178	A	N1-C2-N3	13.83	136.22	129.30
85	5	2880	U	C6-N1-C2	-13.83	112.70	121.00
80	6	1136	U	N3-C2-O2	-13.83	112.52	122.20
38	8	92	A	N1-C6-N6	13.82	126.89	118.60
36	1	956	U	N1-C2-O2	-13.82	113.12	122.80
85	5	3010	U	N3-C2-O2	-13.82	112.52	122.20
36	1	1196	C	N1-C2-O2	13.82	127.19	118.90
38	4	128	U	C5-C6-N1	-13.82	115.79	122.70
80	6	1027	A	C2-N3-C4	-13.82	103.69	110.60
80	6	1649	G	C8-N9-C4	-13.82	100.87	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	499	G	C6-C5-N7	-13.81	122.11	130.40
36	1	2427	U	N1-C2-O2	13.81	132.47	122.80
37	3	29	C	C6-N1-C2	-13.81	114.77	120.30
80	6	1498	G	C5-C6-N1	13.81	118.41	111.50
85	5	776	U	N3-C4-O4	-13.81	109.73	119.40
36	1	2379	U	C2-N3-C4	-13.81	118.72	127.00
1	2	530	C	C6-N1-C2	13.80	125.82	120.30
36	1	2697	A	C8-N9-C4	-13.80	100.28	105.80
85	5	308	A	C2-N3-C4	-13.80	103.70	110.60
36	1	1346	G	N1-C2-N3	13.80	132.18	123.90
36	1	1408	G	N1-C6-O6	13.80	128.18	119.90
85	5	1295	G	N1-C2-N3	13.80	132.18	123.90
85	5	2761	G	C5-C6-N1	13.80	118.40	111.50
36	1	267	G	C5-N7-C8	-13.80	97.40	104.30
85	5	2616	C	N1-C2-O2	-13.80	110.62	118.90
36	1	499	G	C8-N9-C4	-13.80	100.88	106.40
85	5	633	C	N3-C4-C5	-13.79	116.38	121.90
36	1	3022	G	C4-C5-N7	13.79	116.32	110.80
85	5	3247	G	C8-N9-C4	13.79	111.92	106.40
85	5	1113	G	N1-C2-N3	13.79	132.17	123.90
85	5	2986	U	O5'-P-OP1	13.79	127.25	110.70
36	1	102	C	N1-C2-O2	-13.78	110.63	118.90
36	1	341	G	C8-N9-C4	-13.78	100.89	106.40
85	5	226	C	O5'-P-OP1	-13.78	93.30	105.70
85	5	3194	C	N3-C2-O2	-13.78	112.25	121.90
36	1	3362	A	C4-C5-N7	13.78	117.59	110.70
36	1	1445	U	N1-C2-O2	-13.78	113.16	122.80
38	4	146	U	N1-C2-O2	-13.78	113.16	122.80
85	5	3271	G	N3-C4-C5	-13.78	121.71	128.60
85	5	3304	U	N3-C2-O2	-13.78	112.56	122.20
36	1	1801	U	C4-C5-C6	13.77	127.96	119.70
38	8	14	C	C2-N3-C4	-13.77	113.01	119.90
36	1	2699	G	N1-C6-O6	13.77	128.16	119.90
85	5	1589	A	C8-N9-C4	-13.77	100.29	105.80
80	6	1535	U	C5-C6-N1	-13.77	115.82	122.70
85	5	352	A	O5'-P-OP1	-13.77	93.31	105.70
85	5	2283	G	C6-C5-N7	-13.77	122.14	130.40
36	1	1307	G	N1-C2-N3	13.76	132.16	123.90
36	1	2606	G	O5'-P-OP2	-13.76	93.32	105.70
36	1	2607	G	C2-N3-C4	-13.76	105.02	111.90
85	5	793	C	C6-N1-C2	-13.76	114.80	120.30
36	1	85	A	C5-C6-N1	-13.75	110.82	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1196	C	N1-C2-N3	-13.75	109.57	119.20
37	3	79	A	C2-N3-C4	-13.75	103.72	110.60
85	5	942	U	N1-C2-O2	-13.75	113.17	122.80
85	5	2890	A	N9-C4-C5	13.75	111.30	105.80
36	1	1592	G	C5-C6-N1	-13.75	104.62	111.50
36	1	2175	U	C5-C4-O4	13.75	134.15	125.90
80	6	1294	G	C6-C5-N7	-13.75	122.15	130.40
1	2	1195	G	C5-C6-O6	-13.75	120.35	128.60
85	5	1851	G	N1-C6-O6	13.74	128.15	119.90
36	1	499	G	C5-N7-C8	-13.74	97.43	104.30
36	1	2137	U	N3-C2-O2	-13.74	112.58	122.20
85	5	67	A	C8-N9-C4	13.74	111.30	105.80
85	5	1868	G	C5-C6-O6	-13.74	120.35	128.60
85	5	2976	A	N9-C4-C5	13.74	111.30	105.80
85	5	39	A	C2-N3-C4	-13.74	103.73	110.60
85	5	208	C	C5-C6-N1	13.74	127.87	121.00
36	1	1644	C	N3-C4-C5	-13.74	116.41	121.90
36	1	2701	U	N3-C2-O2	-13.74	112.58	122.20
80	6	360	A	N1-C6-N6	-13.74	110.36	118.60
85	5	1408	G	N3-C2-N2	-13.74	110.28	119.90
85	5	2410	U	N1-C2-O2	-13.74	113.18	122.80
36	1	64	G	N9-C4-C5	13.73	110.89	105.40
80	6	628	G	N1-C2-N3	13.73	132.14	123.90
85	5	1609	C	C6-N1-C2	13.73	125.79	120.30
36	1	3270	U	N3-C4-O4	-13.73	109.79	119.40
36	1	2293	C	C5-C4-N4	-13.73	110.59	120.20
85	5	1301	A	C2-N3-C4	-13.73	103.74	110.60
85	5	657	A	N1-C6-N6	13.72	126.83	118.60
36	1	2370	G	C5-C6-N1	13.72	118.36	111.50
85	5	397	A	C4-C5-N7	-13.72	103.84	110.70
36	1	3275	U	N1-C2-N3	-13.72	106.67	114.90
85	5	2615	G	C5-N7-C8	-13.72	97.44	104.30
36	1	917	A	C5-C6-N1	13.72	124.56	117.70
36	1	1853	U	N3-C2-O2	-13.72	112.60	122.20
36	1	2237	C	C6-N1-C2	13.72	125.79	120.30
85	5	356	C	C2-N3-C4	-13.72	113.04	119.90
36	1	1199	C	N1-C2-O2	-13.72	110.67	118.90
36	1	2317	A	O5'-P-OP2	-13.72	93.36	105.70
85	5	410	U	N3-C2-O2	-13.72	112.60	122.20
85	5	650	C	N3-C4-C5	13.71	127.39	121.90
36	1	789	A	N1-C6-N6	-13.71	110.37	118.60
36	1	706	A	C2-N3-C4	-13.71	103.75	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3175	U	N1-C2-O2	-13.70	113.21	122.80
36	1	515	C	N3-C4-C5	-13.70	116.42	121.90
80	6	423	G	N3-C4-N9	-13.70	117.78	126.00
85	5	2637	A	N1-C2-N3	13.70	136.15	129.30
85	5	2649	A	N7-C8-N9	13.70	120.65	113.80
85	5	2620	G	C5-N7-C8	-13.69	97.46	104.30
36	1	645	A	OP1-P-OP2	-13.69	99.07	119.60
36	1	2758	A	N1-C6-N6	-13.69	110.39	118.60
36	1	2138	A	C4-C5-N7	13.68	117.54	110.70
85	5	649	A	C4-C5-N7	13.68	117.54	110.70
36	1	331	G	C5-C6-O6	-13.68	120.39	128.60
80	6	1751	C	O5'-P-OP2	-13.68	93.39	105.70
85	5	1868	G	N1-C6-O6	13.68	128.11	119.90
85	5	2652	U	N3-C2-O2	13.68	131.78	122.20
38	4	43	A	C5-C6-N6	-13.68	112.76	123.70
85	5	2644	C	N3-C4-N4	-13.68	108.42	118.00
85	5	974	G	O5'-P-OP1	13.68	127.11	110.70
85	5	1407	A	OP1-P-OP2	-13.68	99.09	119.60
80	6	1729	C	N1-C2-O2	-13.67	110.70	118.90
80	6	163	G	N3-C4-N9	-13.67	117.80	126.00
36	1	2400	G	C4-C5-N7	13.67	116.27	110.80
80	6	295	A	N7-C8-N9	-13.66	106.97	113.80
80	6	305	C	N1-C2-O2	-13.66	110.70	118.90
85	5	2369	G	O5'-P-OP2	-13.66	93.40	105.70
85	5	1434	G	N3-C2-N2	-13.66	110.34	119.90
36	1	1157	G	N9-C4-C5	13.66	110.86	105.40
36	1	2818	U	C5-C4-O4	-13.66	117.71	125.90
36	1	2837	A	N1-C2-N3	13.65	136.13	129.30
36	1	64	G	C8-N9-C4	-13.65	100.94	106.40
85	5	2925	C	O5'-P-OP1	13.65	127.08	110.70
85	5	1322	U	C4-C5-C6	13.65	127.89	119.70
36	1	2726	C	N1-C2-N3	13.65	128.75	119.20
85	5	3086	A	N1-C2-N3	13.65	136.12	129.30
85	5	1370	G	N1-C6-O6	-13.65	111.71	119.90
85	5	2365	C	N1-C2-O2	-13.65	110.71	118.90
85	5	591	G	C5-C6-N1	-13.64	104.68	111.50
85	5	1488	G	N7-C8-N9	13.64	119.92	113.10
85	5	2967	A	N1-C6-N6	-13.64	110.42	118.60
36	1	2816	G	C4-C5-C6	13.64	126.98	118.80
1	2	1115	A	N1-C6-N6	-13.63	110.42	118.60
85	5	1161	G	C5-C6-N1	13.63	118.32	111.50
36	1	1753	G	C4-C5-N7	13.63	116.25	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1889	G	O5'-P-OP1	13.63	127.06	110.70
85	5	3025	C	C5-C6-N1	-13.63	114.18	121.00
80	6	264	G	C8-N9-C4	-13.63	100.95	106.40
80	6	1214	U	C5-C4-O4	-13.62	117.73	125.90
85	5	777	U	N3-C4-C5	13.62	122.77	114.60
37	3	28	C	C6-N1-C2	-13.62	114.85	120.30
85	5	204	A	C5-C6-N1	13.62	124.51	117.70
85	5	2970	C	C5-C6-N1	-13.62	114.19	121.00
80	6	1549	C	C6-N1-C2	-13.62	114.85	120.30
85	5	640	U	N3-C4-C5	-13.61	106.43	114.60
37	7	102	A	C5-C6-N1	-13.61	110.89	117.70
85	5	3198	U	C5-C6-N1	13.61	129.50	122.70
36	1	76	G	N3-C4-C5	-13.61	121.80	128.60
36	1	1619	A	N1-C6-N6	13.61	126.76	118.60
36	1	3135	U	N3-C4-C5	-13.61	106.44	114.60
38	4	109	A	C8-N9-C4	-13.61	100.36	105.80
85	5	3128	G	C8-N9-C4	-13.60	100.96	106.40
85	5	229	G	N1-C2-N3	13.60	132.06	123.90
85	5	1139	G	N1-C2-N3	13.60	132.06	123.90
85	5	1662	G	N1-C6-O6	13.60	128.06	119.90
85	5	2759	U	N1-C2-N3	13.60	123.06	114.90
85	5	2296	A	OP1-P-OP2	-13.60	99.20	119.60
85	5	330	G	C4-C5-N7	13.59	116.24	110.80
36	1	1207	G	C5-C6-O6	-13.59	120.45	128.60
36	1	2297	U	N3-C2-O2	-13.59	112.69	122.20
36	1	249	U	N3-C2-O2	-13.59	112.69	122.20
36	1	388	G	N7-C8-N9	13.59	119.89	113.10
80	6	1653	C	N1-C2-O2	-13.59	110.75	118.90
85	5	1078	U	C2-N3-C4	13.59	135.15	127.00
85	5	1827	C	C6-N1-C2	13.59	125.73	120.30
1	2	307	G	C4-C5-N7	-13.58	105.37	110.80
36	1	2972	G	C4-C5-N7	13.58	116.23	110.80
85	5	957	C	N1-C2-N3	13.58	128.71	119.20
36	1	102	C	O5'-P-OP2	-13.58	93.48	105.70
38	4	111	A	C5-C6-N1	-13.58	110.91	117.70
36	1	2972	G	C2-N3-C4	13.58	118.69	111.90
85	5	2841	G	C8-N9-C4	13.58	111.83	106.40
85	5	3099	C	C6-N1-C2	13.58	125.73	120.30
36	1	2927	C	N3-C4-C5	13.58	127.33	121.90
80	6	1749	A	C2-N3-C4	-13.57	103.81	110.60
36	1	1603	A	N1-C6-N6	-13.57	110.46	118.60
36	1	121	A	O5'-P-OP2	-13.57	93.49	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1045	C	C2-N3-C4	13.56	126.68	119.90
85	5	1114	U	C5-C4-O4	13.56	134.04	125.90
36	1	2871	G	N7-C8-N9	13.56	119.88	113.10
36	1	260	C	C6-N1-C2	13.56	125.72	120.30
36	1	2887	A	O5'-P-OP2	-13.56	93.50	105.70
36	1	110	G	N3-C2-N2	-13.55	110.41	119.90
80	6	427	C	N1-C2-O2	-13.55	110.77	118.90
85	5	1412	G	O5'-P-OP2	-13.55	93.50	105.70
85	5	3330	A	C6-N1-C2	-13.55	110.47	118.60
36	1	2706	G	C5-C6-O6	-13.55	120.47	128.60
36	1	2811	A	N1-C6-N6	-13.54	110.47	118.60
36	1	2945	G	N1-C6-O6	13.54	128.03	119.90
85	5	1871	U	N3-C2-O2	-13.54	112.72	122.20
85	5	1884	A	C4-C5-C6	13.54	123.77	117.00
36	1	3046	A	O5'-P-OP1	-13.54	93.51	105.70
85	5	984	G	N1-C6-O6	13.54	128.03	119.90
36	1	585	A	N3-C4-C5	13.54	136.28	126.80
80	6	1670	G	N1-C6-O6	13.54	128.02	119.90
80	6	1592	A	C8-N9-C4	-13.54	100.39	105.80
80	6	1654	G	C2-N3-C4	-13.54	105.13	111.90
36	1	1553	U	N1-C2-O2	-13.54	113.33	122.80
36	1	3362	A	C2-N3-C4	-13.54	103.83	110.60
85	5	581	U	O5'-P-OP1	-13.54	93.52	105.70
85	5	3327	G	C4-C5-C6	13.54	126.92	118.80
38	4	56	G	C8-N9-C4	13.53	111.81	106.40
80	6	560	U	OP2-P-O3'	13.53	134.97	105.20
36	1	1425	U	N1-C2-N3	13.53	123.02	114.90
85	5	3376	A	P-O3'-C3'	-13.53	103.46	119.70
80	6	1641	C	C6-N1-C2	-13.53	114.89	120.30
85	5	1374	G	C5-C6-O6	-13.53	120.48	128.60
85	5	639	G	C2-N3-C4	-13.53	105.14	111.90
85	5	1543	G	N7-C8-N9	13.52	119.86	113.10
85	5	1669	C	N1-C2-O2	-13.52	110.79	118.90
85	5	2283	G	C2-N3-C4	-13.52	105.14	111.90
36	1	420	G	C5-C6-O6	-13.52	120.49	128.60
36	1	2886	U	N1-C2-O2	-13.52	113.34	122.80
85	5	376	G	O5'-P-OP1	-13.52	93.53	105.70
36	1	425	G	OP1-P-OP2	-13.52	99.32	119.60
80	6	1727	G	C4-C5-N7	-13.51	105.40	110.80
85	5	2767	U	C5-C6-N1	13.50	129.45	122.70
36	1	277	G	C2-N3-C4	13.50	118.65	111.90
85	5	2980	U	C4-C5-C6	13.50	127.80	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	40	A	C8-N9-C4	-13.50	100.40	105.80
36	1	883	A	C8-N9-C4	-13.50	100.40	105.80
85	5	2619	G	C5-C6-N1	13.50	118.25	111.50
36	1	1398	U	C5-C4-O4	13.50	134.00	125.90
36	1	968	G	C5-C6-O6	-13.49	120.50	128.60
80	6	31	C	C6-N1-C2	-13.49	114.90	120.30
85	5	701	G	C5-N7-C8	13.49	111.05	104.30
85	5	1437	C	C6-N1-C2	-13.49	114.90	120.30
1	2	1185	A	N1-C6-N6	-13.49	110.51	118.60
85	5	1450	G	N3-C2-N2	-13.49	110.46	119.90
36	1	1375	G	N1-C2-N3	13.49	131.99	123.90
36	1	910	G	C8-N9-C4	-13.49	101.00	106.40
36	1	914	A	N1-C2-N3	13.48	136.04	129.30
1	2	908	G	C5-C6-O6	-13.48	120.51	128.60
1	2	47	A	C8-N9-C4	-13.48	100.41	105.80
36	1	1373	A	C6-N1-C2	-13.48	110.51	118.60
85	5	880	G	C6-N1-C2	-13.48	117.01	125.10
85	5	1291	A	C8-N9-C4	13.48	111.19	105.80
36	1	2719	U	N1-C2-O2	-13.48	113.36	122.80
80	6	420	A	N1-C2-N3	13.48	136.04	129.30
36	1	134	U	C6-N1-C2	13.48	129.09	121.00
85	5	333	G	C2-N3-C4	-13.48	105.16	111.90
85	5	607	A	N1-C2-N3	13.48	136.04	129.30
85	5	3183	A	N1-C2-N3	13.47	136.04	129.30
36	1	3016	A	C2-N3-C4	-13.47	103.86	110.60
85	5	2908	G	C4-C5-N7	13.47	116.19	110.80
36	1	194	U	C5-C6-N1	13.47	129.43	122.70
36	1	761	A	C5-C6-N1	-13.47	110.97	117.70
80	6	358	U	N3-C4-O4	13.47	128.83	119.40
85	5	82	C	N1-C2-O2	-13.47	110.82	118.90
85	5	594	U	O5'-P-OP2	-13.47	93.58	105.70
85	5	2353	G	C6-C5-N7	-13.47	122.32	130.40
85	5	3079	U	N1-C2-O2	-13.47	113.37	122.80
36	1	271	C	N1-C2-O2	-13.46	110.82	118.90
80	6	405	C	C6-N1-C2	13.47	125.69	120.30
36	1	2653	C	C6-N1-C2	-13.46	114.91	120.30
36	1	427	C	N1-C2-N3	13.46	128.62	119.20
85	5	1293	U	C5-C6-N1	-13.46	115.97	122.70
85	5	359	U	C6-N1-C2	-13.46	112.93	121.00
85	5	866	A	C8-N9-C4	13.46	111.18	105.80
85	5	3271	G	N1-C6-O6	-13.45	111.83	119.90
36	1	641	C	N1-C2-O2	-13.45	110.83	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	568	G	N1-C6-O6	13.45	127.97	119.90
85	5	2710	C	OP1-P-OP2	-13.45	99.42	119.60
36	1	918	C	N3-C2-O2	13.45	131.31	121.90
85	5	2319	U	N3-C4-O4	13.45	128.81	119.40
36	1	33	G	O5'-P-OP1	-13.44	93.60	105.70
37	7	64	A	C5-C6-N1	13.45	124.42	117.70
36	1	1548	C	N3-C4-C5	-13.44	116.52	121.90
85	5	2359	C	C5-C4-N4	-13.44	110.79	120.20
36	1	3278	C	N1-C2-O2	13.44	126.96	118.90
80	6	204	G	C4-C5-C6	-13.44	110.74	118.80
80	6	1747	G	C8-N9-C4	13.44	111.78	106.40
85	5	95	A	C5-C6-N1	13.44	124.42	117.70
36	1	914	A	C4-C5-N7	-13.44	103.98	110.70
85	5	809	G	N7-C8-N9	13.44	119.82	113.10
36	1	2699	G	C5-C6-O6	-13.43	120.54	128.60
85	5	918	C	C5-C6-N1	13.43	127.72	121.00
85	5	3061	G	O5'-P-OP1	-13.43	93.61	105.70
37	7	100	C	C5-C6-N1	-13.43	114.28	121.00
36	1	940	G	C5-C6-N1	13.43	118.22	111.50
36	1	713	U	C5-C6-N1	-13.43	115.99	122.70
85	5	2875	U	O5'-P-OP1	-13.43	93.61	105.70
85	5	990	U	O5'-P-OP1	13.43	126.81	110.70
85	5	2968	G	C6-N1-C2	-13.43	117.04	125.10
85	5	3198	U	N3-C4-O4	13.43	128.80	119.40
85	5	3207	U	N3-C4-C5	-13.43	106.55	114.60
36	1	324	A	C8-N9-C4	-13.42	100.43	105.80
36	1	2125	A	C5-N7-C8	-13.42	97.19	103.90
36	1	2160	G	C5-C6-O6	13.42	136.65	128.60
38	4	103	G	C2-N3-C4	13.42	118.61	111.90
38	4	104	A	C8-N9-C4	-13.42	100.43	105.80
85	5	326	U	C2-N3-C4	13.42	135.06	127.00
85	5	748	U	N3-C4-O4	13.42	128.80	119.40
85	5	965	A	C4-C5-N7	13.42	117.41	110.70
36	1	3104	U	O5'-P-OP1	-13.42	93.62	105.70
36	1	3367	C	N3-C4-C5	13.42	127.27	121.90
38	4	40	A	O5'-P-OP1	-13.42	93.62	105.70
85	5	330	G	N7-C8-N9	13.42	119.81	113.10
36	1	282	G	C5-C6-O6	13.42	136.65	128.60
85	5	721	G	C5-C6-O6	-13.42	120.55	128.60
85	5	942	U	N3-C4-O4	13.42	128.79	119.40
36	1	73	C	C6-N1-C2	-13.41	114.93	120.30
36	1	2560	C	N1-C2-O2	13.41	126.95	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1541	G	N1-C2-N3	-13.41	115.85	123.90
85	5	2662	G	C8-N9-C4	-13.41	101.03	106.40
85	5	1041	U	C5-C6-N1	-13.41	116.00	122.70
85	5	1201	C	O5'-P-OP2	13.41	126.79	110.70
85	5	2936	A	C5-C6-N1	13.41	124.41	117.70
85	5	2146	C	N3-C4-C5	-13.41	116.54	121.90
36	1	742	G	C5-N7-C8	-13.40	97.60	104.30
85	5	391	A	N1-C6-N6	-13.40	110.56	118.60
38	8	97	A	N1-C2-N3	13.40	136.00	129.30
36	1	1383	G	C6-C5-N7	-13.40	122.36	130.40
85	5	2964	G	N9-C4-C5	13.40	110.76	105.40
36	1	138	U	C5-C6-N1	-13.40	116.00	122.70
38	4	131	A	C6-N1-C2	-13.40	110.56	118.60
38	8	51	G	C8-N9-C4	-13.40	101.04	106.40
36	1	2978	U	N3-C2-O2	-13.39	112.82	122.20
85	5	1119	C	N3-C4-N4	13.39	127.38	118.00
85	5	3327	G	N1-C6-O6	13.39	127.94	119.90
80	6	1673	G	N3-C4-N9	-13.39	117.96	126.00
85	5	1110	U	N3-C2-O2	-13.39	112.83	122.20
36	1	975	C	N3-C4-C5	-13.39	116.54	121.90
85	5	2980	U	N1-C2-N3	13.39	122.93	114.90
85	5	333	G	N1-C2-N3	13.39	131.93	123.90
85	5	3388	C	C5-C4-N4	13.39	129.57	120.20
36	1	3177	G	N1-C6-O6	-13.39	111.87	119.90
1	2	630	A	N7-C8-N9	-13.38	107.11	113.80
36	1	2733	A	C5-C6-N1	-13.38	111.01	117.70
36	1	1166	G	C4-C5-N7	13.38	116.15	110.80
85	5	1819	U	C5-C4-O4	13.38	133.93	125.90
85	5	1592	G	C8-N9-C4	-13.38	101.05	106.40
85	5	295	A	N1-C6-N6	13.38	126.62	118.60
85	5	748	U	C6-N1-C1'	13.37	139.92	121.20
85	5	518	G	N9-C4-C5	13.37	110.75	105.40
38	4	37	A	C8-N9-C4	-13.37	100.45	105.80
85	5	3311	C	C2-N3-C4	13.37	126.58	119.90
1	2	420	A	N1-C2-N3	13.37	135.98	129.30
36	1	1157	G	N1-C2-N3	13.37	131.92	123.90
80	6	627	C	N3-C4-C5	-13.37	116.55	121.90
36	1	499	G	N7-C8-N9	13.36	119.78	113.10
85	5	809	G	C5-N7-C8	-13.36	97.62	104.30
38	8	109	A	O5'-P-OP2	-13.36	93.67	105.70
36	1	2113	A	N1-C6-N6	-13.36	110.58	118.60
38	4	56	G	C5-C6-N1	-13.36	104.82	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2425	G	N3-C4-C5	13.36	135.28	128.60
85	5	667	C	C6-N1-C2	13.36	125.64	120.30
36	1	742	G	C8-N9-C4	-13.36	101.06	106.40
36	1	1847	A	C2-N3-C4	-13.35	103.92	110.60
85	5	2649	A	C5-N7-C8	-13.35	97.22	103.90
36	1	2940	A	C5-C6-N1	13.35	124.38	117.70
36	1	921	A	N3-C4-C5	-13.35	117.46	126.80
36	1	2385	G	C4-C5-N7	-13.35	105.46	110.80
36	1	2825	C	C6-N1-C2	-13.35	114.96	120.30
37	7	60	G	O5'-P-OP1	13.35	126.71	110.70
36	1	267	G	N3-C4-C5	13.34	135.27	128.60
36	1	2416	U	O5'-P-OP2	-13.34	93.69	105.70
85	5	867	G	C4-C5-N7	13.34	116.14	110.80
85	5	1131	G	C5-C6-N1	-13.34	104.83	111.50
80	6	1032	G	C8-N9-C4	13.34	111.74	106.40
36	1	400	G	C5-N7-C8	-13.34	97.63	104.30
36	1	2808	A	C5-N7-C8	-13.34	97.23	103.90
36	1	970	A	C8-N9-C4	-13.33	100.47	105.80
85	5	530	G	C5-C6-O6	-13.33	120.60	128.60
37	7	61	G	C8-N9-C4	13.33	111.73	106.40
36	1	904	A	N1-C6-N6	-13.33	110.61	118.60
36	1	1906	G	OP1-P-OP2	-13.33	99.61	119.60
36	1	510	G	N1-C6-O6	13.32	127.89	119.90
36	1	1629	U	N1-C2-O2	-13.32	113.47	122.80
80	6	783	G	N1-C6-O6	-13.32	111.91	119.90
1	2	1716	C	N3-C2-O2	13.32	131.22	121.90
85	5	3312	U	N3-C4-O4	13.32	128.72	119.40
36	1	338	A	C8-N9-C4	-13.32	100.47	105.80
37	7	103	A	C5-C6-N1	13.31	124.36	117.70
36	1	59	G	N7-C8-N9	13.31	119.76	113.10
36	1	978	G	C5-C6-O6	-13.31	120.61	128.60
85	5	1136	A	C2-N3-C4	-13.31	103.94	110.60
85	5	926	A	C2-N3-C4	-13.31	103.94	110.60
85	5	2958	A	C6-N1-C2	-13.31	110.61	118.60
36	1	89	A	OP1-P-OP2	-13.31	99.64	119.60
85	5	693	A	C8-N9-C4	-13.31	100.48	105.80
85	5	948	C	N3-C2-O2	13.30	131.21	121.90
85	5	3200	G	C4-C5-N7	13.30	116.12	110.80
36	1	2224	A	N1-C6-N6	-13.30	110.62	118.60
85	5	1693	C	N3-C2-O2	-13.30	112.59	121.90
85	5	2984	C	N3-C2-O2	-13.30	112.59	121.90
36	1	326	U	C6-N1-C2	-13.30	113.02	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2147	A	C2-N3-C4	-13.30	103.95	110.60
85	5	2994	A	C5-C6-N1	13.30	124.35	117.70
36	1	1434	G	N7-C8-N9	13.30	119.75	113.10
36	1	2972	G	C8-N9-C4	-13.29	101.08	106.40
85	5	2124	G	C4-C5-N7	-13.30	105.48	110.80
36	1	1468	A	C2-N3-C4	-13.29	103.95	110.60
85	5	1829	G	N1-C6-O6	13.29	127.88	119.90
36	1	1847	A	N1-C2-N3	13.29	135.94	129.30
38	4	107	G	C8-N9-C4	13.29	111.72	106.40
85	5	407	A	N7-C8-N9	13.29	120.44	113.80
36	1	2863	G	C6-C5-N7	-13.28	122.43	130.40
80	6	110	U	N3-C4-C5	-13.28	106.63	114.60
1	2	449	C	C6-N1-C2	-13.28	114.99	120.30
37	3	23	A	C8-N9-C4	-13.28	100.49	105.80
36	1	2160	G	C4-C5-N7	-13.28	105.49	110.80
85	5	2187	G	C6-C5-N7	-13.28	122.43	130.40
36	1	701	G	C4-C5-N7	-13.28	105.49	110.80
85	5	793	C	C5-C6-N1	13.28	127.64	121.00
36	1	96	G	C2-N3-C4	-13.28	105.26	111.90
36	1	201	A	C8-N9-C4	13.27	111.11	105.80
80	6	466	U	N1-C2-N3	13.27	122.86	114.90
36	1	1137	C	C6-N1-C2	13.27	125.61	120.30
37	7	29	C	C2-N3-C4	-13.27	113.26	119.90
85	5	1690	C	C6-N1-C2	-13.27	114.99	120.30
36	1	925	A	C8-N9-C4	-13.27	100.49	105.80
36	1	1432	C	N3-C2-O2	-13.27	112.61	121.90
36	1	2374	C	N3-C2-O2	-13.27	112.61	121.90
85	5	393	U	C6-N1-C2	-13.27	113.04	121.00
85	5	641	C	C2-N3-C4	13.27	126.53	119.90
85	5	2158	A	C6-N1-C2	-13.27	110.64	118.60
36	1	412	G	C5-C6-O6	13.26	136.56	128.60
85	5	2388	U	N3-C2-O2	13.26	131.49	122.20
36	1	1433	A	N7-C8-N9	13.26	120.43	113.80
85	5	31	C	N3-C4-C5	13.26	127.20	121.90
85	5	1078	U	N3-C4-C5	-13.26	106.64	114.60
85	5	2884	C	N3-C4-C5	-13.26	116.60	121.90
85	5	3178	A	C2-N3-C4	-13.26	103.97	110.60
85	5	53	G	C8-N9-C4	13.26	111.70	106.40
85	5	2288	G	C6-N1-C2	-13.26	117.15	125.10
38	8	110	C	C4-C5-C6	13.26	124.03	117.40
85	5	347	G	C8-N9-C4	-13.25	101.10	106.40
38	8	138	A	C5-N7-C8	13.25	110.53	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1303	A	N1-C6-N6	13.25	126.55	118.60
36	1	646	A	C8-N9-C4	-13.25	100.50	105.80
38	4	84	C	C5-C6-N1	-13.25	114.38	121.00
85	5	2646	C	C2-N3-C4	-13.25	113.28	119.90
85	5	2898	G	C5-C6-N1	-13.25	104.88	111.50
85	5	3215	A	C5-C6-N6	-13.25	113.10	123.70
85	5	798	G	C4-C5-C6	13.25	126.75	118.80
85	5	1256	G	C8-N9-C4	13.25	111.70	106.40
85	5	2613	U	N1-C2-O2	-13.25	113.53	122.80
80	6	562	G	N1-C6-O6	13.24	127.84	119.90
80	6	1127	G	C2-N3-C4	-13.24	105.28	111.90
80	6	1294	G	N1-C6-O6	13.24	127.84	119.90
80	6	1280	C	N3-C4-C5	-13.24	116.60	121.90
85	5	48	A	C6-N1-C2	-13.24	110.66	118.60
36	1	1303	A	N1-C6-N6	-13.24	110.66	118.60
36	1	2601	A	C6-N1-C2	-13.24	110.66	118.60
85	5	1197	A	C4-C5-N7	-13.23	104.08	110.70
36	1	2598	G	O5'-P-OP1	13.23	126.58	110.70
1	2	73	U	N1-C2-O2	13.23	132.06	122.80
36	1	662	U	C4-C5-C6	-13.23	111.76	119.70
36	1	2982	A	C2-N3-C4	13.23	117.22	110.60
85	5	2335	G	N1-C2-N3	13.23	131.84	123.90
85	5	2864	A	C4-C5-C6	-13.23	110.38	117.00
36	1	1449	A	N1-C6-N6	-13.23	110.66	118.60
80	6	565	C	C5-C6-N1	-13.23	114.39	121.00
85	5	2405	C	C5-C6-N1	-13.23	114.39	121.00
85	5	2798	C	C5-C4-N4	13.23	129.46	120.20
36	1	57	A	C2-N3-C4	-13.22	103.99	110.60
36	1	3054	U	C5-C6-N1	-13.22	116.09	122.70
80	6	268	C	C6-N1-C2	13.22	125.59	120.30
80	6	818	C	N1-C2-O2	-13.22	110.97	118.90
36	1	1512	U	N1-C2-O2	-13.22	113.55	122.80
37	3	74	C	N3-C2-O2	13.21	131.15	121.90
80	6	204	G	N3-C4-C5	13.21	135.21	128.60
37	7	79	A	N1-C6-N6	13.21	126.53	118.60
36	1	1320	C	N3-C4-C5	-13.21	116.62	121.90
36	1	2150	G	C2-N3-C4	-13.21	105.29	111.90
80	6	1053	G	C8-N9-C4	-13.21	101.12	106.40
85	5	266	A	N1-C6-N6	-13.21	110.67	118.60
85	5	2715	A	C4-C5-C6	13.21	123.61	117.00
85	5	1134	G	N1-C2-N3	13.21	131.82	123.90
80	6	1735	U	N3-C2-O2	-13.20	112.96	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3006	A	N1-C2-N3	13.20	135.90	129.30
38	8	134	G	C8-N9-C4	13.20	111.68	106.40
36	1	76	G	C5-C6-N1	13.20	118.10	111.50
80	6	941	A	C2-N3-C4	13.20	117.20	110.60
36	1	2222	A	C8-N9-C4	-13.20	100.52	105.80
85	5	508	U	C5-C4-O4	13.20	133.82	125.90
85	5	2710	C	N1-C2-O2	-13.20	110.98	118.90
80	6	1651	A	OP2-P-O3'	-13.19	76.17	105.20
36	1	326	U	C5-C6-N1	13.19	129.30	122.70
36	1	499	G	C5-C6-O6	-13.19	120.69	128.60
36	1	1121	U	C6-N1-C2	13.19	128.91	121.00
80	6	678	A	C8-N9-C4	-13.19	100.53	105.80
85	5	3267	A	C6-N1-C2	-13.19	110.69	118.60
80	6	423	G	C4-C5-C6	-13.18	110.89	118.80
80	6	1748	G	N1-C6-O6	13.18	127.81	119.90
85	5	2620	G	C4-C5-N7	13.18	116.07	110.80
36	1	1124	U	C5-C6-N1	13.18	129.29	122.70
36	1	1154	A	N3-C4-C5	-13.18	117.57	126.80
80	6	1643	U	C2-N3-C4	-13.18	119.09	127.00
85	5	2617	U	N1-C2-O2	-13.18	113.57	122.80
85	5	918	C	N1-C2-N3	-13.18	109.97	119.20
85	5	2620	G	C8-N9-C4	-13.18	101.13	106.40
85	5	2960	C	N1-C2-N3	13.18	128.43	119.20
36	1	666	A	C6-N1-C2	-13.18	110.69	118.60
36	1	1822	C	O5'-P-OP1	-13.17	93.84	105.70
36	1	1902	G	N1-C6-O6	13.17	127.80	119.90
36	1	3311	C	C6-N1-C2	13.17	125.57	120.30
36	1	2890	A	O5'-P-OP1	13.17	126.50	110.70
36	1	1414	G	N1-C6-O6	13.17	127.80	119.90
85	5	942	U	C4-C5-C6	13.17	127.60	119.70
85	5	957	C	N3-C2-O2	-13.17	112.68	121.90
85	5	1199	C	N1-C2-O2	-13.17	111.00	118.90
1	2	1643	A	C5-C6-N1	13.17	124.28	117.70
85	5	1149	G	C8-N9-C1'	13.17	144.12	127.00
36	1	1103	A	C2-N3-C4	13.16	117.18	110.60
36	1	1182	A	N1-C6-N6	13.16	126.50	118.60
36	1	1308	A	C2-N3-C4	-13.16	104.02	110.60
85	5	947	G	C5-C6-N1	-13.16	104.92	111.50
85	5	2147	A	C5-C6-N1	13.16	124.28	117.70
85	5	2302	G	C5-C6-O6	13.16	136.50	128.60
1	2	1128	U	C5-C6-N1	13.16	129.28	122.70
36	1	824	C	N3-C2-O2	-13.16	112.69	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3016	A	C5-C6-N1	-13.16	111.12	117.70
85	5	1450	G	C5-C6-O6	-13.16	120.70	128.60
36	1	780	A	C2-N3-C4	-13.16	104.02	110.60
36	1	2975	U	O5'-P-OP2	-13.16	93.86	105.70
36	1	3046	A	N1-C6-N6	13.16	126.49	118.60
85	5	2829	U	N3-C4-O4	13.16	128.61	119.40
36	1	2808	A	C4-C5-N7	13.15	117.28	110.70
40	13	4	ARG	NE-CZ-NH1	13.15	126.88	120.30
36	1	808	A	N1-C6-N6	-13.15	110.71	118.60
36	1	2286	U	N1-C2-N3	13.15	122.79	114.90
36	1	2364	G	C5-C6-O6	13.15	136.49	128.60
85	5	2231	C	N3-C4-C5	-13.15	116.64	121.90
1	2	48	G	O5'-P-OP2	-13.15	93.87	105.70
36	1	1389	G	C2-N3-C4	13.15	118.47	111.90
36	1	2728	G	C5-C6-N1	13.15	118.07	111.50
85	5	1393	A	N1-C6-N6	-13.15	110.71	118.60
36	1	364	G	C2-N3-C4	-13.14	105.33	111.90
80	6	1051	G	C4-C5-C6	-13.14	110.91	118.80
36	1	895	A	C2-N3-C4	-13.14	104.03	110.60
36	1	676	G	N7-C8-N9	13.14	119.67	113.10
36	1	2300	G	C8-N9-C4	-13.14	101.14	106.40
36	1	2971	A	C4-C5-C6	13.14	123.57	117.00
85	5	2985	C	N3-C4-C5	13.14	127.16	121.90
1	2	1250	G	C8-N9-C4	-13.13	101.15	106.40
36	1	222	A	O5'-P-OP2	-13.13	93.88	105.70
36	1	338	A	N9-C4-C5	13.13	111.05	105.80
36	1	1799	A	C5-C6-N6	13.13	134.20	123.70
85	5	2652	U	O5'-P-OP2	-13.13	93.88	105.70
37	3	82	G	N9-C4-C5	13.13	110.65	105.40
85	5	1420	C	N3-C4-C5	13.13	127.15	121.90
85	5	1772	U	C5-C4-O4	13.13	133.78	125.90
38	4	7	U	N1-C2-O2	-13.13	113.61	122.80
38	4	66	A	C5-C6-N1	-13.12	111.14	117.70
85	5	518	G	C5-C6-N1	-13.13	104.94	111.50
85	5	2550	U	N1-C2-N3	13.12	122.78	114.90
1	2	1436	G	N7-C8-N9	-13.12	106.54	113.10
36	1	30	G	N1-C2-N3	13.12	131.77	123.90
85	5	24	G	N1-C6-O6	-13.12	112.03	119.90
85	5	2352	A	N7-C8-N9	-13.12	107.24	113.80
85	5	971	G	C5-C6-O6	-13.12	120.73	128.60
85	5	1171	G	O5'-P-OP2	-13.12	93.89	105.70
36	1	872	U	OP1-P-OP2	-13.12	99.92	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1105	A	C2-N3-C4	-13.12	104.04	110.60
36	1	1139	G	N3-C2-N2	-13.12	110.72	119.90
36	1	1183	C	O5'-P-OP1	13.12	126.44	110.70
85	5	802	C	N1-C2-O2	-13.12	111.03	118.90
85	5	2888	U	O5'-P-OP1	-13.12	93.89	105.70
37	7	39	C	N3-C4-C5	-13.12	116.65	121.90
38	8	23	U	N3-C2-O2	-13.12	113.02	122.20
36	1	421	G	C5-C6-N1	13.12	118.06	111.50
80	6	1002	G	C8-N9-C4	-13.11	101.15	106.40
85	5	189	G	N1-C6-O6	-13.11	112.03	119.90
1	2	370	A	N1-C6-N6	-13.11	110.73	118.60
38	4	110	C	O5'-P-OP2	-13.11	93.90	105.70
85	5	1519	G	C5-N7-C8	-13.11	97.74	104.30
85	5	2313	A	OP1-P-OP2	-13.11	99.93	119.60
36	1	3026	G	N1-C6-O6	13.11	127.77	119.90
85	5	1903	U	N1-C2-O2	-13.11	113.62	122.80
80	6	637	C	O5'-P-OP2	-13.11	93.91	105.70
36	1	59	G	C8-N9-C4	-13.10	101.16	106.40
80	6	129	U	N1-C2-N3	-13.10	107.04	114.90
80	6	1042	G	C8-N9-C4	-13.10	101.16	106.40
85	5	1865	A	C5-C6-N1	-13.10	111.15	117.70
85	5	2339	C	C6-N1-C2	-13.10	115.06	120.30
85	5	2830	G	N1-C2-N3	13.10	131.76	123.90
85	5	2899	C	N3-C4-C5	-13.10	116.66	121.90
36	1	1062	A	N7-C8-N9	13.10	120.35	113.80
36	1	2619	G	C6-N1-C2	-13.10	117.24	125.10
85	5	2283	G	N3-C4-C5	13.10	135.15	128.60
1	2	565	C	N3-C2-O2	-13.10	112.73	121.90
85	5	1792	C	C4-C5-C6	13.10	123.95	117.40
80	6	1195	C	N3-C4-C5	-13.09	116.66	121.90
36	1	97	U	N1-C2-O2	-13.09	113.64	122.80
38	4	68	G	C2-N3-C4	-13.09	105.36	111.90
38	4	111	A	C2-N3-C4	-13.09	104.06	110.60
85	5	3311	C	N3-C2-O2	13.09	131.06	121.90
85	5	2850	G	C8-N9-C4	13.09	111.64	106.40
85	5	3212	C	N1-C2-O2	-13.09	111.05	118.90
85	5	957	C	C4-C5-C6	13.08	123.94	117.40
85	5	1414	G	N7-C8-N9	13.08	119.64	113.10
36	1	2941	A	O5'-P-OP2	-13.08	93.93	105.70
85	5	1433	A	N9-C4-C5	13.08	111.03	105.80
1	2	354	C	N3-C4-C5	-13.08	116.67	121.90
36	1	2647	A	C8-N9-C4	-13.08	100.57	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	999	G	C2-N3-C4	13.07	118.44	111.90
85	5	1517	G	O5'-P-OP2	-13.07	93.93	105.70
85	5	1901	A	C8-N9-C4	-13.07	100.57	105.80
85	5	2656	A	C5-N7-C8	-13.07	97.36	103.90
80	6	1740	A	O5'-P-OP2	-13.07	93.94	105.70
36	1	935	U	N3-C4-O4	13.07	128.55	119.40
36	1	1888	U	N3-C2-O2	-13.07	113.05	122.20
85	5	3328	G	C8-N9-C4	-13.07	101.17	106.40
38	8	66	A	C8-N9-C4	-13.07	100.57	105.80
37	7	80	G	C5-C6-N1	13.07	118.03	111.50
85	5	270	U	C5-C6-N1	13.06	129.23	122.70
36	1	53	G	N1-C2-N3	13.06	131.74	123.90
85	5	291	C	C5-C6-N1	-13.06	114.47	121.00
85	5	1085	A	C2-N3-C4	-13.06	104.07	110.60
85	5	1424	C	C6-N1-C2	13.06	125.53	120.30
36	1	2819	A	O5'-P-OP2	-13.06	93.94	105.70
38	8	15	G	N1-C2-N3	13.06	131.74	123.90
80	6	420	A	C6-C5-N7	-13.06	123.16	132.30
85	5	1131	G	O5'-P-OP2	-13.06	93.95	105.70
85	5	506	U	C4-C5-C6	13.05	127.53	119.70
36	1	2855	U	C5-C6-N1	-13.05	116.17	122.70
38	4	58	G	OP1-P-OP2	-13.05	100.02	119.60
85	5	431	U	N3-C4-C5	-13.05	106.77	114.60
85	5	777	U	C2-N1-C1'	-13.05	102.04	117.70
85	5	3072	C	N3-C4-C5	-13.05	116.68	121.90
36	1	1589	A	C8-N9-C4	-13.05	100.58	105.80
85	5	341	G	C5-C6-N1	-13.05	104.98	111.50
85	5	1483	G	C2-N3-C4	13.05	118.42	111.90
36	1	638	C	C2-N3-C4	13.05	126.42	119.90
38	4	97	A	N1-C2-N3	13.04	135.82	129.30
85	5	1001	G	C5-C6-O6	13.04	136.43	128.60
85	5	1294	A	N1-C2-N3	13.04	135.82	129.30
85	5	2375	G	C5-C6-N1	13.04	118.02	111.50
79	Q3	23	ARG	NE-CZ-NH1	-13.03	113.78	120.30
80	6	1137	A	C2-N3-C4	-13.03	104.08	110.60
85	5	652	G	C5-N7-C8	13.03	110.82	104.30
36	1	2699	G	C4-C5-N7	13.03	116.01	110.80
85	5	93	C	N3-C4-N4	13.03	127.12	118.00
85	5	213	A	C5-C6-N1	13.03	124.21	117.70
36	1	904	A	C2-N3-C4	-13.02	104.09	110.60
37	3	94	C	N1-C2-O2	-13.02	111.09	118.90
85	5	2937	G	OP1-P-OP2	-13.02	100.07	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	307	A	N9-C4-C5	13.02	111.01	105.80
36	1	3103	A	N1-C2-N3	13.02	135.81	129.30
36	1	426	G	O5'-P-OP1	-13.02	93.98	105.70
85	5	364	G	C2-N3-C4	-13.02	105.39	111.90
85	5	2761	G	C6-N1-C2	-13.02	117.29	125.10
85	5	3313	U	O5'-P-OP2	-13.01	93.99	105.70
38	4	52	A	C6-N1-C2	-13.01	110.79	118.60
80	6	957	G	N1-C6-O6	13.01	127.71	119.90
36	1	37	U	N1-C2-N3	13.01	122.70	114.90
36	1	857	G	C6-C5-N7	-13.01	122.59	130.40
36	1	804	C	C4-C5-C6	-13.01	110.90	117.40
36	1	1753	G	C5-C6-O6	-13.01	120.80	128.60
36	1	2237	C	C5-C6-N1	-13.01	114.50	121.00
37	3	20	A	C8-N9-C4	-13.01	100.60	105.80
85	5	2140	U	N3-C2-O2	-13.01	113.10	122.20
36	1	408	A	C4-C5-N7	-13.00	104.20	110.70
36	1	2293	C	C5-C6-N1	13.00	127.50	121.00
36	1	2370	G	N1-C6-O6	-13.00	112.10	119.90
85	5	2757	U	N1-C2-N3	13.00	122.70	114.90
85	5	898	U	OP1-P-OP2	-13.00	100.10	119.60
85	5	1413	G	C5-C6-O6	-13.00	120.80	128.60
85	5	3085	G	C5-C6-O6	13.00	136.40	128.60
85	5	1869	C	C6-N1-C2	13.00	125.50	120.30
36	1	1425	U	N3-C2-O2	-12.99	113.10	122.20
36	1	1901	A	N1-C6-N6	-12.99	110.80	118.60
85	5	3065	G	C2-N3-C4	-12.99	105.40	111.90
37	7	54	U	N3-C2-O2	-12.99	113.10	122.20
36	1	283	G	C6-C5-N7	-12.99	122.61	130.40
85	5	308	A	C5-C6-N1	-12.99	111.20	117.70
36	1	1417	G	C8-N9-C4	12.99	111.59	106.40
36	1	1435	A	N9-C4-C5	12.99	111.00	105.80
80	6	1014	G	N1-C2-N3	12.99	131.69	123.90
36	1	1151	U	C6-N1-C2	-12.99	113.21	121.00
38	4	41	A	C5-C6-N6	12.99	134.09	123.70
85	5	1895	A	C4-C5-N7	12.99	117.19	110.70
85	5	2968	G	C6-C5-N7	12.99	138.19	130.40
36	1	1429	G	C6-N1-C2	-12.98	117.31	125.10
36	1	808	A	C2-N3-C4	12.98	117.09	110.60
36	1	2119	A	C5-C6-N6	-12.98	113.31	123.70
85	5	407	A	C6-N1-C2	-12.98	110.81	118.60
85	5	2936	A	C8-N9-C4	-12.98	100.61	105.80
36	1	1426	C	N1-C2-N3	12.97	128.28	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1871	U	N1-C2-N3	12.97	122.68	114.90
85	5	394	G	C5-C6-O6	12.97	136.38	128.60
85	5	644	G	C4-C5-N7	-12.97	105.61	110.80
36	1	1165	A	O5'-P-OP2	-12.97	94.03	105.70
38	4	52	A	C5-C6-N1	12.97	124.19	117.70
36	1	44	U	N3-C4-O4	-12.97	110.32	119.40
38	4	80	A	N7-C8-N9	-12.97	107.31	113.80
85	5	1306	G	C5-N7-C8	-12.97	97.81	104.30
85	5	2093	A	C4-C5-N7	12.97	117.19	110.70
85	5	532	A	C8-N9-C4	-12.97	100.61	105.80
85	5	1792	C	N1-C2-O2	-12.97	111.12	118.90
85	5	2927	C	C6-N1-C2	-12.97	115.11	120.30
36	1	2847	A	N1-C6-N6	12.97	126.38	118.60
36	1	2916	U	N1-C2-O2	12.96	131.88	122.80
85	5	1322	U	C5-C6-N1	-12.96	116.22	122.70
85	5	1496	C	N1-C2-O2	12.96	126.68	118.90
36	1	636	C	C6-N1-C2	-12.96	115.11	120.30
36	1	294	U	C5-C4-O4	12.96	133.68	125.90
80	6	335	U	OP1-P-O3'	12.96	133.72	105.20
85	5	1488	G	C5-N7-C8	-12.96	97.82	104.30
36	1	1132	C	C4-C5-C6	12.96	123.88	117.40
36	1	2160	G	N1-C6-O6	-12.96	112.12	119.90
85	5	1000	C	N3-C4-C5	12.96	127.08	121.90
36	1	633	C	C2-N3-C4	-12.95	113.43	119.90
64	n8	46	ASP	CB-CG-OD1	12.95	129.96	118.30
85	5	1440	G	N7-C8-N9	12.95	119.57	113.10
36	1	1297	C	C2-N3-C4	-12.95	113.43	119.90
36	1	57	A	N1-C6-N6	12.94	126.36	118.60
36	1	96	G	O5'-P-OP2	-12.94	94.05	105.70
80	6	1147	A	C8-N9-C4	-12.94	100.62	105.80
85	5	1171	G	O5'-P-OP1	12.94	126.23	110.70
85	5	1594	A	C8-N9-C4	-12.94	100.62	105.80
85	5	880	G	C5-N7-C8	12.94	110.77	104.30
36	1	2689	A	O5'-P-OP1	-12.94	94.06	105.70
36	1	2870	C	OP1-P-O3'	12.94	133.66	105.20
85	5	408	A	N1-C2-N3	12.94	135.77	129.30
85	5	1294	A	C2-N3-C4	-12.94	104.13	110.60
36	1	408	A	N9-C4-C5	12.93	110.97	105.80
85	5	1301	A	N7-C8-N9	12.93	120.26	113.80
85	5	1759	C	N1-C2-O2	12.93	126.66	118.90
37	7	100	C	N3-C2-O2	12.93	130.95	121.90
36	1	751	A	O5'-P-OP2	-12.93	94.07	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1483	G	N1-C6-O6	-12.93	112.14	119.90
80	6	1670	G	N1-C2-N3	12.93	131.66	123.90
85	5	1434	G	N1-C6-O6	12.93	127.66	119.90
1	2	87	C	N3-C4-C5	-12.92	116.73	121.90
36	1	37	U	C4-C5-C6	12.92	127.45	119.70
36	1	1383	G	C5-C6-O6	-12.92	120.85	128.60
85	5	1115	G	C8-N9-C4	-12.92	101.23	106.40
85	5	1662	G	C5-C6-O6	12.92	136.35	128.60
85	5	2648	G	C2-N3-C4	-12.92	105.44	111.90
36	1	3120	C	C6-N1-C2	12.92	125.47	120.30
85	5	2177	G	C2-N3-C4	-12.92	105.44	111.90
85	5	2385	G	C2-N3-C4	-12.92	105.44	111.90
36	1	2144	A	C5-C6-N1	12.91	124.16	117.70
85	5	3052	G	N9-C4-C5	12.91	110.56	105.40
36	1	1169	A	C5-C6-N1	12.91	124.16	117.70
36	1	1801	U	N3-C2-O2	-12.91	113.17	122.20
36	1	2756	C	O5'-P-OP1	12.90	126.18	110.70
85	5	1446	A	N1-C6-N6	-12.90	110.86	118.60
36	1	2375	G	C5-C6-N1	12.90	117.95	111.50
85	5	581	U	C5-C6-N1	12.90	129.15	122.70
36	1	1794	G	C5-C6-N1	-12.90	105.05	111.50
36	1	2693	C	C6-N1-C2	12.90	125.46	120.30
85	5	2980	U	N1-C2-O2	-12.90	113.77	122.80
85	5	1598	G	C5-C6-N1	12.90	117.95	111.50
36	1	1513	G	C5-C6-N1	12.89	117.95	111.50
85	5	2223	A	N1-C6-N6	-12.89	110.86	118.60
36	1	994	G	N1-C6-O6	-12.89	112.17	119.90
38	4	27	U	N1-C2-O2	12.89	131.82	122.80
1	2	1128	U	N3-C2-O2	12.89	131.22	122.20
85	5	1662	G	O5'-P-OP1	-12.89	94.10	105.70
85	5	1200	A	C8-N9-C4	12.89	110.95	105.80
85	5	2830	G	C2-N3-C4	-12.89	105.46	111.90
36	1	677	A	C6-N1-C2	-12.88	110.87	118.60
85	5	966	U	C6-N1-C2	-12.88	113.27	121.00
85	5	2825	C	C6-N1-C2	12.89	125.45	120.30
85	5	981	U	O5'-P-OP1	-12.88	94.10	105.70
36	1	1433	A	C5-C6-N1	12.88	124.14	117.70
37	3	17	A	N1-C2-N3	12.88	135.74	129.30
85	5	1407	A	C2-N3-C4	-12.88	104.16	110.60
85	5	2160	G	C6-N1-C2	-12.88	117.37	125.10
85	5	2843	U	N1-C2-O2	12.88	131.82	122.80
85	5	2980	U	N3-C4-C5	-12.88	106.87	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	957	C	C6-N1-C2	-12.88	115.15	120.30
36	1	2695	A	O5'-P-OP1	-12.88	94.11	105.70
36	1	2777	G	N1-C6-O6	-12.88	112.17	119.90
36	1	3046	A	C4-C5-C6	12.88	123.44	117.00
85	5	653	A	O5'-P-OP2	-12.88	94.11	105.70
36	1	1794	G	C2-N3-C4	-12.88	105.46	111.90
85	5	826	G	C4-C5-N7	12.87	115.95	110.80
36	1	972	A	O5'-P-OP2	-12.87	94.12	105.70
85	5	2979	U	N3-C2-O2	-12.87	113.19	122.20
91	p	75	C	C6-N1-C2	12.87	125.45	120.30
85	5	658	G	C2-N3-C4	-12.87	105.47	111.90
36	1	2627	C	C5-C6-N1	-12.87	114.57	121.00
85	5	2907	G	N1-C6-O6	12.87	127.62	119.90
85	5	1165	A	C6-N1-C2	-12.86	110.88	118.60
85	5	2864	A	C5-N7-C8	-12.86	97.47	103.90
85	5	920	A	N7-C8-N9	12.86	120.23	113.80
36	1	2401	A	C6-C5-N7	-12.86	123.30	132.30
85	5	867	G	C5-N7-C8	-12.86	97.87	104.30
85	5	1476	G	C2-N3-C4	-12.86	105.47	111.90
85	5	3022	G	O5'-P-OP1	-12.86	94.13	105.70
91	P	75	C	C6-N1-C2	12.86	125.44	120.30
85	5	3029	A	OP1-P-OP2	-12.86	100.31	119.60
36	1	859	G	C6-C5-N7	-12.86	122.69	130.40
36	1	947	G	C2-N3-C4	-12.86	105.47	111.90
85	5	2271	A	N1-C6-N6	-12.86	110.89	118.60
80	6	789	A	C8-N9-C4	-12.86	100.66	105.80
80	6	923	A	C2-N3-C4	-12.85	104.17	110.60
85	5	90	C	N1-C2-O2	-12.85	111.19	118.90
85	5	363	G	C4-C5-N7	12.85	115.94	110.80
85	5	2857	C	O5'-P-OP2	12.85	126.12	110.70
85	5	2896	A	C2-N3-C4	-12.85	104.17	110.60
85	5	3144	G	O5'-P-OP2	12.85	126.12	110.70
36	1	1173	U	C2-N3-C4	-12.85	119.29	127.00
85	5	3039	C	C2-N3-C4	-12.85	113.48	119.90
85	5	3067	C	C5-C6-N1	-12.85	114.58	121.00
36	1	187	A	C5-N7-C8	-12.85	97.48	103.90
36	1	3197	G	C2-N3-C4	-12.84	105.48	111.90
80	6	590	C	O5'-P-OP1	-12.84	94.14	105.70
85	5	1293	U	C2-N3-C4	-12.84	119.30	127.00
36	1	71	A	N1-C6-N6	-12.84	110.90	118.60
85	5	397	A	C5-N7-C8	12.84	110.32	103.90
85	5	2425	G	N1-C6-O6	12.84	127.60	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	806	A	N1-C6-N6	12.83	126.30	118.60
37	7	79	A	N9-C4-C5	-12.83	100.67	105.80
85	5	2191	U	C5-C4-O4	12.83	133.60	125.90
85	5	2745	G	O5'-P-OP1	12.83	126.09	110.70
36	1	633	C	N3-C4-C5	12.83	127.03	121.90
80	6	475	A	C8-N9-C4	-12.82	100.67	105.80
85	5	1121	U	C6-N1-C2	12.82	128.69	121.00
85	5	2379	U	N1-C2-N3	12.82	122.59	114.90
85	5	425	G	C5-C6-N1	-12.82	105.09	111.50
85	5	2981	U	N3-C2-O2	-12.82	113.23	122.20
36	1	186	U	OP1-P-OP2	-12.82	100.38	119.60
85	5	1483	G	N3-C4-C5	-12.82	122.19	128.60
85	5	2837	A	O5'-P-OP2	-12.81	94.17	105.70
80	6	1382	A	O5'-P-OP1	12.81	126.08	110.70
85	5	656	A	C5-C6-N6	-12.81	113.45	123.70
36	1	358	G	C5-C6-N1	12.81	117.91	111.50
85	5	1648	A	C2-N3-C4	-12.81	104.19	110.60
36	1	1294	A	N1-C6-N6	-12.81	110.91	118.60
85	5	509	U	N3-C4-C5	-12.81	106.91	114.60
85	5	3172	A	C5-C6-N1	12.81	124.11	117.70
1	2	1637	G	N3-C4-C5	-12.81	122.20	128.60
36	1	2371	G	O5'-P-OP2	-12.81	94.17	105.70
38	4	7	U	N3-C4-O4	12.81	128.37	119.40
85	5	2319	U	C6-N1-C2	-12.80	113.32	121.00
36	1	2808	A	C5-C6-N6	-12.80	113.46	123.70
80	6	323	A	C8-N9-C4	-12.80	100.68	105.80
85	5	3327	G	C2-N3-C4	-12.80	105.50	111.90
36	1	2601	A	C8-N9-C4	12.80	110.92	105.80
85	5	1330	A	C8-N9-C4	-12.80	100.68	105.80
36	1	3266	G	C4-C5-N7	-12.80	105.68	110.80
80	6	331	A	N1-C2-N3	12.79	135.70	129.30
85	5	809	G	C8-N9-C4	-12.79	101.28	106.40
85	5	1438	U	N3-C4-C5	-12.79	106.92	114.60
85	5	2888	U	N3-C2-O2	-12.79	113.24	122.20
36	1	1440	G	O5'-P-OP2	-12.79	94.19	105.70
38	4	69	U	C5-C6-N1	-12.79	116.30	122.70
85	5	1088	U	C6-N1-C2	-12.79	113.33	121.00
85	5	2603	G	N3-C4-N9	-12.79	118.33	126.00
1	2	245	U	N3-C4-O4	-12.79	110.45	119.40
80	6	1781	A	C8-N9-C4	-12.79	100.69	105.80
85	5	2381	G	N7-C8-N9	12.79	119.49	113.10
85	5	2850	G	C6-C5-N7	-12.79	122.73	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2914	G	C5-C6-N1	12.79	117.89	111.50
85	5	2984	C	C4-C5-C6	12.79	123.79	117.40
85	5	142	C	C6-N1-C2	12.79	125.42	120.30
85	5	39	A	C5-N7-C8	-12.78	97.51	103.90
85	5	919	U	C5-C6-N1	-12.79	116.31	122.70
85	5	1772	U	N3-C4-O4	12.79	128.35	119.40
80	6	204	G	C8-N9-C4	-12.78	101.29	106.40
36	1	986	U	N3-C4-C5	12.78	122.27	114.60
36	1	2621	G	C5-C6-O6	-12.78	120.93	128.60
36	1	1472	U	C5-C6-N1	-12.78	116.31	122.70
1	2	1507	A	C8-N9-C4	-12.78	100.69	105.80
36	1	2334	U	C2-N3-C4	-12.78	119.33	127.00
36	1	2629	U	N3-C2-O2	12.78	131.14	122.20
85	5	805	G	N1-C2-N3	12.78	131.57	123.90
85	5	1309	U	OP1-P-OP2	12.78	138.76	119.60
85	5	1004	U	C5-C6-N1	12.77	129.09	122.70
85	5	2239	G	N3-C4-C5	12.77	134.99	128.60
85	5	3141	A	C8-N9-C4	-12.77	100.69	105.80
36	1	307	A	C5-C6-N1	12.77	124.08	117.70
38	4	106	C	C4-C5-C6	12.77	123.78	117.40
36	1	600	G	C4-C5-N7	12.77	115.91	110.80
36	1	2146	C	C6-N1-C2	-12.77	115.19	120.30
85	5	1005	G	C2-N3-C4	-12.77	105.52	111.90
85	5	946	U	C4-C5-C6	12.77	127.36	119.70
80	6	1664	C	C6-N1-C2	12.77	125.41	120.30
85	5	1191	U	C6-N1-C2	12.77	128.66	121.00
36	1	1154	A	N1-C6-N6	-12.76	110.94	118.60
85	5	3302	U	N3-C2-O2	12.76	131.13	122.20
36	1	3278	C	N3-C2-O2	-12.76	112.97	121.90
85	5	2349	U	C5-C4-O4	-12.76	118.24	125.90
85	5	919	U	O5'-P-OP2	-12.76	94.22	105.70
85	5	418	A	C4-C5-N7	12.76	117.08	110.70
36	1	3332	U	C5-C4-O4	-12.75	118.25	125.90
36	1	224	C	N3-C4-C5	-12.75	116.80	121.90
38	8	63	G	O5'-P-OP1	12.75	126.00	110.70
1	2	18	C	C6-N1-C2	-12.75	115.20	120.30
36	1	2983	C	C4-C5-C6	12.75	123.77	117.40
36	1	2125	A	C4-C5-N7	12.75	117.07	110.70
80	6	1663	G	N1-C6-O6	12.75	127.55	119.90
37	7	52	G	C8-N9-C4	12.75	111.50	106.40
36	1	716	A	N9-C4-C5	-12.74	100.70	105.80
36	1	1931	U	N3-C4-O4	-12.74	110.48	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2395	G	N1-C6-O6	12.74	127.55	119.90
36	1	2855	U	C4-C5-C6	12.74	127.35	119.70
36	1	2979	U	O5'-P-OP1	-12.74	94.23	105.70
85	5	1322	U	N1-C2-O2	-12.74	113.88	122.80
36	1	663	C	C6-N1-C2	-12.74	115.20	120.30
1	2	1111	C	N3-C2-O2	-12.74	112.98	121.90
85	5	2300	G	N3-C4-C5	-12.74	122.23	128.60
85	5	2966	G	N7-C8-N9	12.74	119.47	113.10
36	1	104	G	N1-C6-O6	12.74	127.54	119.90
85	5	366	A	C2-N3-C4	-12.74	104.23	110.60
85	5	73	C	C4-C5-C6	12.73	123.77	117.40
85	5	915	A	OP1-P-OP2	12.73	138.70	119.60
85	5	2257	C	C6-N1-C2	-12.73	115.21	120.30
85	5	1879	A	C2-N3-C4	-12.73	104.23	110.60
36	1	1058	U	N3-C4-O4	12.73	128.31	119.40
80	6	1581	C	C6-N1-C2	12.73	125.39	120.30
36	1	1345	G	C2-N3-C4	-12.73	105.53	111.90
85	5	886	C	N3-C4-C5	-12.73	116.81	121.90
36	1	43	A	C5-C6-N1	-12.73	111.34	117.70
36	1	193	C	OP1-P-OP2	-12.73	100.51	119.60
80	6	261	U	N1-C2-O2	12.73	131.71	122.80
36	1	799	G	O5'-P-OP2	-12.72	94.25	105.70
36	1	2427	U	N3-C4-O4	-12.72	110.49	119.40
80	6	557	G	C8-N9-C4	12.72	111.49	106.40
85	5	689	U	C2-N3-C4	-12.72	119.37	127.00
85	5	2353	G	C5-C6-O6	-12.72	120.97	128.60
36	1	1921	A	C2-N3-C4	12.72	116.96	110.60
36	1	2165	G	C8-N9-C4	-12.72	101.31	106.40
80	6	1498	G	N3-C4-N9	-12.72	118.37	126.00
85	5	757	C	C6-N1-C2	12.72	125.39	120.30
36	1	2868	U	N1-C2-O2	12.71	131.70	122.80
85	5	2156	C	C2-N3-C4	-12.71	113.54	119.90
36	1	1831	U	C6-N1-C2	-12.71	113.37	121.00
80	6	46	A	C2-N3-C4	-12.71	104.25	110.60
80	6	110	U	C2-N3-C4	12.71	134.63	127.00
85	5	2847	A	N7-C8-N9	-12.71	107.44	113.80
85	5	206	G	C2-N3-C4	12.71	118.25	111.90
85	5	1671	C	O5'-P-OP1	-12.71	94.26	105.70
85	5	2652	U	C5-C6-N1	12.71	129.05	122.70
85	5	2977	G	N3-C2-N2	-12.70	111.01	119.90
36	1	71	A	N9-C4-C5	12.70	110.88	105.80
36	1	1886	A	N9-C4-C5	12.70	110.88	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	3	114	U	N1-C2-O2	12.70	131.69	122.80
85	5	2876	C	N3-C4-C5	12.70	126.98	121.90
36	1	625	G	C8-N9-C4	12.70	111.48	106.40
85	5	643	U	N3-C4-O4	12.70	128.29	119.40
85	5	2899	C	C4-C5-C6	12.70	123.75	117.40
85	5	3130	A	C6-N1-C2	-12.70	110.98	118.60
85	5	1178	G	N3-C4-C5	-12.70	122.25	128.60
36	1	426	G	N3-C4-C5	-12.69	122.25	128.60
38	8	117	C	N1-C2-O2	-12.69	111.28	118.90
36	1	360	G	N1-C2-N2	-12.69	104.78	116.20
85	5	809	G	C4-C5-N7	12.69	115.88	110.80
85	5	1124	U	C6-N1-C2	-12.69	113.39	121.00
38	8	121	U	N3-C2-O2	-12.69	113.32	122.20
36	1	337	G	N1-C6-O6	12.69	127.51	119.90
36	1	1304	A	N1-C6-N6	-12.69	110.99	118.60
80	6	96	G	C8-N9-C4	-12.69	101.33	106.40
36	1	143	G	N3-C4-C5	-12.68	122.26	128.60
85	5	2710	C	N3-C2-O2	12.68	130.78	121.90
36	1	3174	A	C8-N9-C4	-12.68	100.73	105.80
1	2	568	G	C8-N9-C4	12.68	111.47	106.40
36	1	1474	A	C8-N9-C4	-12.68	100.73	105.80
85	5	2942	C	C6-N1-C2	-12.68	115.23	120.30
85	5	2995	A	N9-C4-C5	12.68	110.87	105.80
36	1	2412	G	N3-C4-C5	-12.67	122.26	128.60
80	6	576	G	C5-C6-O6	-12.67	121.00	128.60
85	5	640	U	N3-C2-O2	12.67	131.07	122.20
85	5	1197	A	C5-N7-C8	12.67	110.24	103.90
36	1	107	A	C6-N1-C2	-12.67	111.00	118.60
36	1	675	C	C6-N1-C2	-12.67	115.23	120.30
36	1	1904	C	C5-C6-N1	12.67	127.33	121.00
85	5	692	A	N1-C6-N6	12.67	126.20	118.60
85	5	2187	G	C2-N3-C4	-12.67	105.57	111.90
85	5	2553	U	N1-C2-N3	12.67	122.50	114.90
85	5	46	U	N3-C4-O4	12.66	128.26	119.40
85	5	1139	G	C2-N3-C4	-12.66	105.57	111.90
85	5	921	A	N9-C4-C5	12.66	110.86	105.80
85	5	1006	A	N1-C6-N6	-12.66	111.00	118.60
85	5	2702	A	N1-C2-N3	12.66	135.63	129.30
36	1	1182	A	C5-C6-N1	-12.65	111.37	117.70
85	5	2900	A	O5'-P-OP2	-12.65	94.31	105.70
38	8	97	A	C2-N3-C4	-12.65	104.27	110.60
36	1	1797	A	C8-N9-C4	12.65	110.86	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
52	M6	160	ARG	NE-CZ-NH1	-12.65	113.97	120.30
80	6	25	C	N1-C2-O2	12.65	126.49	118.90
85	5	3225	C	C5-C6-N1	12.65	127.33	121.00
36	1	1289	G	N1-C6-O6	12.65	127.49	119.90
80	6	1019	A	C8-N9-C4	12.65	110.86	105.80
85	5	106	A	N9-C4-C5	-12.65	100.74	105.80
85	5	2856	G	OP2-P-O3'	12.65	133.03	105.20
36	1	319	A	C5-C6-N6	12.64	133.82	123.70
38	4	116	G	C2-N3-C4	-12.64	105.58	111.90
36	1	2412	G	N1-C6-O6	-12.64	112.31	119.90
80	6	58	U	N3-C4-C5	-12.64	107.02	114.60
85	5	788	C	C4-C5-C6	12.64	123.72	117.40
85	5	1190	A	N9-C4-C5	12.64	110.86	105.80
85	5	1497	C	N3-C4-N4	12.64	126.85	118.00
36	1	1385	C	OP1-P-OP2	12.64	138.56	119.60
85	5	36	C	N3-C2-O2	-12.64	113.05	121.90
85	5	1349	G	N7-C8-N9	-12.64	106.78	113.10
85	5	2976	A	N1-C6-N6	-12.64	111.02	118.60
36	1	1769	G	C5-C6-O6	-12.64	121.02	128.60
36	1	2293	C	N3-C4-N4	12.63	126.84	118.00
85	5	3036	G	C4-C5-C6	12.64	126.38	118.80
85	5	1083	G	N1-C6-O6	-12.63	112.32	119.90
85	5	2704	A	O5'-P-OP1	-12.63	94.33	105.70
85	5	2919	A	C8-N9-C4	12.63	110.85	105.80
85	5	3039	C	N1-C2-N3	12.63	128.04	119.20
85	5	343	U	N1-C2-N3	12.63	122.48	114.90
85	5	2386	A	C8-N9-C4	-12.63	100.75	105.80
85	5	2615	G	C5-C6-O6	-12.63	121.02	128.60
36	1	425	G	N1-C2-N3	12.62	131.47	123.90
36	1	815	G	O5'-P-OP2	-12.62	94.34	105.70
36	1	1175	C	C6-N1-C2	12.62	125.35	120.30
36	1	2650	U	O5'-P-OP1	-12.62	94.34	105.70
85	5	1673	G	C6-N1-C2	-12.62	117.53	125.10
85	5	3347	A	C8-N9-C4	12.62	110.85	105.80
85	5	3350	C	C5-C6-N1	12.62	127.31	121.00
85	5	1012	G	N3-C4-C5	12.62	134.91	128.60
80	6	1107	G	OP1-P-OP2	12.62	138.52	119.60
36	1	773	G	N3-C2-N2	-12.61	111.07	119.90
85	5	1909	A	C4-C5-N7	12.61	117.01	110.70
85	5	2626	A	N9-C4-C5	12.62	110.85	105.80
1	2	813	U	N1-C2-O2	12.61	131.63	122.80
36	1	3128	G	C8-N9-C4	-12.61	101.36	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	994	G	N3-C4-C5	-12.61	122.29	128.60
38	4	80	A	O5'-P-OP2	-12.61	94.35	105.70
80	6	25	C	C5-C6-N1	12.61	127.31	121.00
80	6	423	G	C8-N9-C1'	12.61	143.39	127.00
85	5	30	G	OP1-P-OP2	-12.61	100.69	119.60
85	5	215	G	O5'-P-OP1	-12.61	94.35	105.70
38	4	154	C	N1-C2-O2	-12.61	111.34	118.90
85	5	1323	G	N1-C6-O6	-12.60	112.34	119.90
38	4	144	G	C5-C6-O6	12.60	136.16	128.60
85	5	215	G	C5-C6-O6	12.60	136.16	128.60
85	5	356	C	N1-C2-O2	-12.60	111.34	118.90
85	5	658	G	C6-C5-N7	-12.60	122.84	130.40
36	1	440	A	N1-C2-N3	-12.60	123.00	129.30
85	5	583	G	N1-C6-O6	12.60	127.46	119.90
85	5	3335	A	C5-C6-N6	-12.60	113.62	123.70
85	5	339	C	C5-C6-N1	12.59	127.30	121.00
36	1	3344	A	N7-C8-N9	12.59	120.10	113.80
85	5	1824	U	N1-C2-N3	12.59	122.45	114.90
36	1	425	G	C2-N3-C4	-12.59	105.61	111.90
80	6	938	G	O5'-P-OP1	-12.59	94.37	105.70
85	5	1069	C	N3-C4-N4	-12.59	109.19	118.00
36	1	1495	U	C4-C5-C6	12.59	127.25	119.70
36	1	971	G	C5-C6-N1	12.58	117.79	111.50
36	1	2691	A	C8-N9-C4	12.58	110.83	105.80
37	3	120	C	C4-C5-C6	12.58	123.69	117.40
52	M6	49	ARG	NE-CZ-NH1	12.58	126.59	120.30
36	1	935	U	C4-C5-C6	12.58	127.25	119.70
80	6	1213	G	C6-C5-N7	-12.58	122.85	130.40
36	1	3305	A	C8-N9-C4	-12.58	100.77	105.80
85	5	3136	G	C6-N1-C2	-12.58	117.55	125.10
36	1	1434	G	N1-C6-O6	12.57	127.44	119.90
85	5	2747	A	OP1-P-OP2	-12.57	100.74	119.60
85	5	3019	U	N3-C2-O2	-12.57	113.40	122.20
85	5	433	A	C2-N3-C4	-12.57	104.31	110.60
85	5	2643	A	N1-C6-N6	12.57	126.14	118.60
36	1	1289	G	C5-C6-N1	-12.57	105.22	111.50
36	1	1759	C	C5-C6-N1	-12.57	114.72	121.00
36	1	2121	G	C5-N7-C8	12.57	110.58	104.30
36	1	2628	A	C8-N9-C4	-12.57	100.77	105.80
85	5	641	C	C5-C6-N1	12.57	127.28	121.00
85	5	798	G	N7-C8-N9	12.57	119.38	113.10
80	6	420	A	C8-N9-C4	-12.56	100.77	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2657	A	N1-C6-N6	-12.56	111.06	118.60
38	4	14	C	N1-C2-N3	-12.56	110.41	119.20
85	5	2629	U	N3-C2-O2	12.56	131.00	122.20
36	1	1794	G	N1-C6-O6	12.56	127.44	119.90
85	5	1362	G	N1-C6-O6	-12.56	112.36	119.90
37	7	77	G	C4-C5-N7	-12.56	105.78	110.80
36	1	199	A	C8-N9-C4	-12.56	100.78	105.80
36	1	1140	G	C5-C6-N1	-12.56	105.22	111.50
36	1	1459	C	C6-N1-C2	-12.55	115.28	120.30
36	1	2772	C	N3-C2-O2	-12.55	113.11	121.90
36	1	2799	A	N1-C2-N3	12.56	135.58	129.30
36	1	180	C	N1-C2-O2	12.55	126.43	118.90
36	1	960	U	N1-C2-N3	-12.55	107.37	114.90
85	5	867	G	N1-C6-O6	12.55	127.43	119.90
85	5	2326	A	N7-C8-N9	-12.55	107.52	113.80
85	5	2758	A	C8-N9-C4	-12.55	100.78	105.80
85	5	2851	A	O5'-P-OP1	12.55	125.76	110.70
36	1	2706	G	N1-C6-O6	12.55	127.43	119.90
85	5	808	A	C8-N9-C4	-12.55	100.78	105.80
37	7	77	G	C5-N7-C8	12.55	110.58	104.30
36	1	168	U	N3-C2-O2	-12.55	113.42	122.20
85	5	2933	A	C5-C6-N1	12.55	123.97	117.70
36	1	1678	G	N7-C8-N9	12.55	119.37	113.10
1	2	1486	A	C8-N9-C4	-12.54	100.78	105.80
85	5	1673	G	N3-C4-C5	-12.55	122.33	128.60
37	7	10	C	C5-C6-N1	-12.55	114.73	121.00
36	1	1694	U	C5-C6-N1	-12.54	116.43	122.70
85	5	1473	G	C8-N9-C4	12.54	111.42	106.40
1	2	538	A	N9-C4-C5	-12.54	100.78	105.80
36	1	60	A	O5'-P-OP2	-12.54	94.41	105.70
85	5	3187	A	C8-N9-C4	12.54	110.82	105.80
1	2	1584	G	O5'-P-OP2	-12.54	94.42	105.70
85	5	911	C	C5-C6-N1	12.54	127.27	121.00
85	5	2995	A	C8-N9-C4	-12.54	100.78	105.80
36	1	935	U	N1-C2-N3	12.54	122.42	114.90
36	1	1154	A	N9-C4-C5	12.54	110.81	105.80
85	5	1111	U	N3-C4-C5	12.54	122.12	114.60
85	5	3052	G	C5-C6-O6	12.54	136.12	128.60
36	1	644	G	C5-C6-O6	12.54	136.12	128.60
36	1	1043	C	OP1-P-OP2	-12.53	100.80	119.60
1	2	1107	A	C5-C6-N1	-12.53	111.43	117.70
1	2	110	U	N3-C2-O2	-12.53	113.43	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	583	G	C2-N3-C4	-12.53	105.64	111.90
36	1	1927	G	C2-N3-C4	-12.53	105.64	111.90
85	5	2665	U	C5-C6-N1	12.53	128.97	122.70
85	5	2924	U	N3-C2-O2	-12.53	113.43	122.20
85	5	2966	G	C8-N9-C4	-12.53	101.39	106.40
85	5	3239	G	C5-C6-O6	-12.53	121.08	128.60
80	6	1155	G	C8-N9-C4	-12.53	101.39	106.40
36	1	3026	G	C2-N3-C4	-12.53	105.64	111.90
85	5	948	C	O5'-P-OP1	12.53	125.73	110.70
85	5	1729	A	C8-N9-C4	-12.53	100.79	105.80
38	8	92	A	N7-C8-N9	12.53	120.06	113.80
36	1	197	G	C5-N7-C8	-12.52	98.04	104.30
36	1	434	U	C5-C6-N1	-12.52	116.44	122.70
36	1	970	A	C6-N1-C2	-12.52	111.09	118.60
85	5	2678	A	N1-C6-N6	-12.52	111.09	118.60
36	1	299	G	C5-C6-N1	-12.52	105.24	111.50
36	1	2754	G	N1-C2-N3	12.52	131.41	123.90
85	5	1161	G	C2-N3-C4	12.52	118.16	111.90
36	1	965	A	N1-C6-N6	-12.52	111.09	118.60
85	5	50	U	C5-C4-O4	-12.52	118.39	125.90
85	5	73	C	C5-C6-N1	-12.52	114.74	121.00
85	5	795	G	C6-C5-N7	-12.52	122.89	130.40
85	5	1171	G	N3-C2-N2	-12.52	111.14	119.90
85	5	1674	G	C5-C6-O6	12.52	136.11	128.60
85	5	777	U	C5-C4-O4	-12.51	118.39	125.90
85	5	2316	G	C5-C6-O6	12.51	136.11	128.60
85	5	1152	G	C2-N3-C4	-12.51	105.64	111.90
36	1	2812	C	C6-N1-C2	12.51	125.30	120.30
85	5	56	G	C5-C6-O6	-12.51	121.09	128.60
85	5	2811	A	N1-C6-N6	-12.51	111.10	118.60
36	1	1364	C	C5-C4-N4	-12.51	111.45	120.20
37	3	40	C	C6-N1-C2	-12.51	115.30	120.30
80	6	1755	A	C8-N9-C4	-12.51	100.80	105.80
1	2	1128	U	N1-C2-O2	-12.50	114.05	122.80
36	1	843	A	C2-N3-C4	-12.50	104.35	110.60
36	1	2224	A	C5-C6-N1	12.50	123.95	117.70
80	6	1727	G	C4-C5-C6	12.50	126.30	118.80
85	5	36	C	C2-N3-C4	-12.50	113.65	119.90
36	1	3309	G	C2-N3-C4	-12.50	105.65	111.90
85	5	220	G	OP1-P-OP2	12.50	138.35	119.60
1	2	1098	U	C5-C6-N1	-12.49	116.45	122.70
36	1	2859	U	N3-C2-O2	12.49	130.95	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	659	G	C8-N9-C4	-12.49	101.40	106.40
36	1	2379	U	N1-C2-O2	-12.49	114.06	122.80
85	5	2774	C	C4-C5-C6	12.49	123.64	117.40
36	1	1426	C	C4-C5-C6	12.49	123.64	117.40
36	1	1527	C	N3-C4-C5	12.49	126.89	121.90
85	5	645	A	C5-C6-N1	12.48	123.94	117.70
85	5	1909	A	C8-N9-C4	-12.48	100.81	105.80
85	5	715	A	C5-C6-N1	12.48	123.94	117.70
38	8	81	U	N3-C4-O4	-12.48	110.66	119.40
85	5	355	A	C8-N9-C4	-12.48	100.81	105.80
85	5	2405	C	O5'-P-OP2	-12.48	94.47	105.70
85	5	3315	G	C8-N9-C4	-12.48	101.41	106.40
36	1	684	G	N1-C6-O6	12.47	127.39	119.90
85	5	122	A	N1-C6-N6	-12.47	111.11	118.60
85	5	674	G	O5'-P-OP1	12.47	125.67	110.70
85	5	788	C	N1-C2-O2	-12.47	111.42	118.90
85	5	2973	G	N1-C2-N3	12.47	131.38	123.90
36	1	1193	A	N1-C2-N3	-12.47	123.06	129.30
36	1	1685	C	N1-C2-O2	12.47	126.38	118.90
85	5	2335	G	C5-C6-N1	12.47	117.74	111.50
80	6	1673	G	N1-C6-O6	12.47	127.38	119.90
36	1	843	A	C5-C6-N1	-12.47	111.47	117.70
36	1	1888	U	N1-C2-N3	12.47	122.38	114.90
36	1	581	U	O5'-P-OP2	12.46	125.66	110.70
36	1	2138	A	C8-N9-C4	-12.46	100.81	105.80
85	5	2351	U	N3-C4-O4	-12.46	110.67	119.40
1	2	442	C	C6-N1-C2	-12.46	115.31	120.30
36	1	569	A	C8-N9-C4	12.46	110.78	105.80
36	1	968	G	C5-C6-N1	12.46	117.73	111.50
36	1	1394	A	C5-C6-N1	12.46	123.93	117.70
36	1	3021	A	N1-C6-N6	-12.46	111.12	118.60
36	1	2403	G	OP1-P-OP2	-12.46	100.91	119.60
80	6	1014	G	C2-N3-C4	-12.46	105.67	111.90
36	1	52	A	C5-C6-N1	12.46	123.93	117.70
36	1	2691	A	N1-C6-N6	-12.46	111.13	118.60
38	4	32	C	O5'-P-OP1	12.46	125.65	110.70
36	1	2364	G	O5'-P-OP2	-12.46	94.49	105.70
36	1	2937	G	C6-C5-N7	12.46	137.87	130.40
85	5	1462	A	N1-C6-N6	12.46	126.07	118.60
36	1	1211	U	C5-C6-N1	-12.45	116.47	122.70
36	1	2965	U	N1-C2-O2	-12.45	114.09	122.80
36	1	2983	C	N1-C2-N3	12.44	127.91	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1537	C	C5-C6-N1	12.45	127.22	121.00
85	5	2250	G	C8-N9-C4	12.44	111.38	106.40
85	5	2942	C	N3-C4-N4	12.44	126.71	118.00
38	8	117	C	N3-C4-C5	-12.45	116.92	121.90
1	2	1637	G	C6-N1-C2	-12.44	117.64	125.10
85	5	2701	U	C5-C4-O4	-12.44	118.44	125.90
85	5	2830	G	C5-N7-C8	12.44	110.52	104.30
36	1	1380	G	N1-C2-N3	12.44	131.36	123.90
85	5	1935	G	N3-C4-N9	-12.44	118.54	126.00
80	6	678	A	C5-C6-N1	12.44	123.92	117.70
36	1	3011	A	C8-N9-C4	12.43	110.77	105.80
85	5	609	G	C2-N3-C4	-12.43	105.68	111.90
36	1	678	G	C6-C5-N7	-12.43	122.94	130.40
36	1	267	G	C5-C6-O6	-12.43	121.14	128.60
36	1	934	G	C5-N7-C8	-12.43	98.08	104.30
85	5	599	C	N1-C2-O2	-12.43	111.44	118.90
36	1	3133	C	N3-C4-C5	-12.43	116.93	121.90
85	5	98	G	C6-N1-C2	-12.43	117.64	125.10
85	5	2374	C	O5'-P-OP2	-12.43	94.51	105.70
85	5	3206	C	N1-C2-O2	12.43	126.36	118.90
85	5	2976	A	C4-C5-N7	-12.43	104.49	110.70
36	1	2754	G	N1-C2-N2	-12.43	105.02	116.20
85	5	1201	C	O5'-P-OP1	-12.43	94.52	105.70
85	5	2613	U	C5-C4-O4	12.42	133.35	125.90
37	7	6	C	C2-N3-C4	-12.42	113.69	119.90
36	1	2364	G	N3-C2-N2	-12.42	111.21	119.90
36	1	2400	G	C5-C6-O6	-12.42	121.15	128.60
80	6	951	A	C8-N9-C4	12.42	110.77	105.80
85	5	933	A	C5-C6-N1	12.42	123.91	117.70
36	1	1520	G	C2-N3-C4	12.41	118.11	111.90
38	4	79	A	C8-N9-C4	12.41	110.77	105.80
85	5	795	G	C5-C6-N1	-12.41	105.29	111.50
36	1	1703	U	C6-N1-C2	-12.41	113.56	121.00
36	1	2363	A	N1-C6-N6	-12.41	111.15	118.60
85	5	921	A	C8-N9-C4	-12.41	100.84	105.80
85	5	3026	G	N1-C6-O6	12.41	127.34	119.90
36	1	2685	C	N3-C4-C5	-12.41	116.94	121.90
85	5	920	A	C5-N7-C8	-12.41	97.70	103.90
85	5	1133	A	O5'-P-OP1	12.40	125.59	110.70
85	5	1375	G	N3-C4-N9	-12.40	118.56	126.00
38	8	33	A	O5'-P-OP2	12.40	125.59	110.70
36	1	2908	G	C6-N1-C2	-12.40	117.66	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2388	U	N1-C2-O2	-12.40	114.12	122.80
85	5	2858	U	C6-N1-C2	-12.40	113.56	121.00
36	1	1160	C	O5'-P-OP1	-12.40	94.54	105.70
36	1	3216	G	C8-N9-C4	-12.39	101.44	106.40
85	5	221	A	O5'-P-OP1	-12.39	94.55	105.70
85	5	1450	G	N1-C6-O6	12.39	127.34	119.90
1	2	607	G	N1-C6-O6	12.39	127.33	119.90
85	5	798	G	C5-N7-C8	-12.39	98.11	104.30
85	5	1083	G	C5-C6-O6	12.39	136.03	128.60
85	5	2208	A	C5-C6-N6	12.39	133.61	123.70
85	5	2379	U	C5-C4-O4	12.39	133.33	125.90
85	5	897	U	OP1-P-O3'	12.39	132.46	105.20
36	1	2323	G	N1-C6-O6	-12.39	112.47	119.90
85	5	704	U	C6-N1-C2	-12.39	113.57	121.00
85	5	707	U	N1-C2-N3	12.39	122.33	114.90
85	5	1790	G	N1-C2-N3	12.39	131.33	123.90
38	8	125	U	C5-C6-N1	12.39	128.90	122.70
36	1	1852	G	N3-C4-C5	12.39	134.79	128.60
85	5	1408	G	C6-N1-C2	-12.38	117.67	125.10
36	1	2098	C	C6-N1-C2	-12.38	115.35	120.30
85	5	2602	G	C2-N3-C4	-12.38	105.71	111.90
85	5	2636	A	C2-N3-C4	12.38	116.79	110.60
36	1	701	G	N1-C2-N3	12.38	131.33	123.90
85	5	2335	G	N1-C2-N2	-12.37	105.06	116.20
36	1	928	C	N3-C4-C5	12.37	126.85	121.90
85	5	1292	C	O5'-P-OP2	-12.37	94.56	105.70
36	1	76	G	C6-N1-C2	-12.37	117.68	125.10
36	1	3273	A	C6-N1-C2	-12.37	111.18	118.60
80	6	1754	A	O5'-P-OP1	-12.37	94.57	105.70
37	3	74	C	N3-C4-C5	12.37	126.85	121.90
36	1	2362	C	C5-C6-N1	12.37	127.18	121.00
85	5	1729	A	N7-C8-N9	12.36	119.98	113.80
36	1	672	A	N1-C2-N3	12.36	135.48	129.30
80	6	53	G	N1-C2-N3	12.36	131.32	123.90
85	5	425	G	N1-C6-O6	12.36	127.32	119.90
85	5	725	G	O5'-P-OP2	-12.36	94.58	105.70
85	5	808	A	C5-C6-N1	12.36	123.88	117.70
85	5	1155	C	N3-C4-N4	12.36	126.65	118.00
36	1	672	A	C6-C5-N7	-12.36	123.65	132.30
36	1	18	G	N1-C6-O6	12.36	127.31	119.90
85	5	2968	G	C5-C6-N1	12.36	117.68	111.50
85	5	2979	U	N1-C2-O2	12.36	131.45	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	88	U	N3-C2-O2	-12.36	113.55	122.20
36	1	1003	A	C2-N3-C4	-12.36	104.42	110.60
85	5	397	A	C6-N1-C2	-12.36	111.19	118.60
85	5	511	G	C5-C6-N1	-12.36	105.32	111.50
85	5	629	U	N3-C2-O2	12.36	130.85	122.20
37	7	76	A	C2-N3-C4	-12.36	104.42	110.60
36	1	3130	A	N1-C2-N3	12.35	135.48	129.30
85	5	434	U	N1-C2-O2	-12.35	114.15	122.80
85	5	2527	G	C8-N9-C4	12.35	111.34	106.40
36	1	2943	G	C6-C5-N7	-12.35	122.99	130.40
38	4	40	A	N7-C8-N9	12.35	119.97	113.80
85	5	2129	U	N1-C2-N3	12.35	122.31	114.90
36	1	891	G	C8-N9-C4	12.35	111.34	106.40
36	1	2363	A	C5-C6-N6	12.35	133.58	123.70
85	5	674	G	OP1-P-OP2	-12.35	101.08	119.60
36	1	918	C	N1-C2-O2	-12.34	111.49	118.90
36	1	942	U	O5'-P-OP2	-12.34	94.59	105.70
36	1	3229	G	N1-C6-O6	12.34	127.30	119.90
36	1	73	C	N3-C4-C5	-12.34	116.97	121.90
36	1	1353	U	O5'-P-OP2	-12.34	94.60	105.70
36	1	1368	U	C5-C4-O4	-12.34	118.50	125.90
36	1	1459	C	N1-C2-O2	-12.34	111.50	118.90
36	1	2614	G	O5'-P-OP2	-12.34	94.60	105.70
36	1	2940	A	C2-N3-C4	12.34	116.77	110.60
80	6	558	U	O5'-P-OP2	-12.34	94.60	105.70
85	5	933	A	O5'-P-OP2	-12.34	94.60	105.70
36	1	363	G	C6-N1-C2	-12.33	117.70	125.10
36	1	2610	G	N1-C2-N3	12.33	131.30	123.90
85	5	1165	A	N1-C6-N6	-12.33	111.20	118.60
85	5	2284	C	N1-C2-O2	12.33	126.30	118.90
38	4	52	A	N9-C4-C5	12.33	110.73	105.80
80	6	871	G	C4-C5-C6	12.33	126.20	118.80
85	5	2752	U	O5'-P-OP1	-12.33	94.60	105.70
85	5	2956	A	C2-N3-C4	-12.33	104.43	110.60
80	6	643	G	C5-C6-O6	-12.33	121.20	128.60
85	5	3327	G	C8-N9-C4	-12.33	101.47	106.40
1	2	1263	C	N3-C4-C5	-12.33	116.97	121.90
36	1	934	G	N7-C8-N9	12.33	119.26	113.10
85	5	678	G	C5-C6-N1	-12.33	105.34	111.50
85	5	920	A	OP1-P-OP2	-12.33	101.11	119.60
85	5	1306	G	C8-N9-C4	-12.33	101.47	106.40
36	1	96	G	O5'-P-OP1	12.32	125.49	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3109	G	C5-C6-N1	12.32	117.66	111.50
38	8	25	G	O5'-P-OP2	-12.32	94.61	105.70
85	5	3138	U	N3-C4-O4	12.32	128.03	119.40
85	5	2273	G	N9-C4-C5	12.32	110.33	105.40
85	5	2933	A	C6-N1-C2	-12.32	111.21	118.60
85	5	3119	U	N3-C2-O2	12.32	130.82	122.20
1	2	1093	G	N1-C6-O6	-12.31	112.51	119.90
36	1	684	G	N9-C4-C5	-12.31	100.47	105.40
80	6	1773	C	N3-C4-C5	-12.31	116.97	121.90
85	5	1198	C	N3-C4-C5	12.31	126.83	121.90
85	5	2950	G	C8-N9-C4	-12.31	101.47	106.40
85	5	291	C	C4-C5-C6	12.31	123.56	117.40
85	5	564	G	C5-C6-O6	-12.31	121.21	128.60
85	5	1041	U	C6-N1-C2	12.31	128.39	121.00
85	5	1908	A	C8-N9-C4	-12.31	100.88	105.80
36	1	1367	G	N1-C6-O6	12.31	127.28	119.90
80	6	119	A	C5-C6-N1	-12.31	111.55	117.70
85	5	2346	C	N3-C4-C5	-12.31	116.98	121.90
85	5	2374	C	C2-N3-C4	-12.31	113.75	119.90
85	5	944	C	N3-C4-C5	-12.31	116.98	121.90
36	1	1377	G	C5-C6-O6	-12.30	121.22	128.60
36	1	1801	U	C5-C6-N1	-12.30	116.55	122.70
38	4	92	A	C5-C6-N1	-12.30	111.55	117.70
38	4	102	U	C4-C5-C6	12.30	127.08	119.70
85	5	783	A	C2-N3-C4	-12.30	104.45	110.60
36	1	337	G	C5-C6-N1	-12.30	105.35	111.50
36	1	2637	A	C5-C6-N1	12.30	123.85	117.70
36	1	3311	C	C4-C5-C6	-12.30	111.25	117.40
85	5	725	G	C5-N7-C8	12.30	110.45	104.30
85	5	1671	C	O5'-P-OP2	12.30	125.46	110.70
36	1	963	G	N1-C6-O6	12.30	127.28	119.90
36	1	600	G	C6-C5-N7	-12.29	123.02	130.40
85	5	215	G	O5'-P-OP2	12.29	125.45	110.70
85	5	908	G	C4-C5-N7	12.29	115.72	110.80
85	5	1332	A	C2-N3-C4	-12.29	104.45	110.60
85	5	1488	G	C5-C6-O6	-12.30	121.22	128.60
85	5	2814	G	O5'-P-OP2	12.29	125.45	110.70
36	1	575	G	N3-C2-N2	-12.29	111.30	119.90
36	1	3091	A	C2-N3-C4	-12.29	104.45	110.60
85	5	630	A	C5-C6-N6	12.29	133.53	123.70
36	1	229	G	N3-C2-N2	-12.29	111.30	119.90
85	5	229	G	C2-N3-C4	-12.29	105.76	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2915	U	N3-C2-O2	12.29	130.80	122.20
36	1	654	C	C6-N1-C2	-12.29	115.39	120.30
80	6	482	U	C5-C6-N1	12.29	128.84	122.70
85	5	668	G	O5'-P-OP2	-12.28	94.64	105.70
85	5	2880	U	O5'-P-OP1	-12.28	94.64	105.70
36	1	80	G	C5-C6-O6	12.28	135.97	128.60
80	6	335	U	C6-N1-C2	-12.28	113.63	121.00
36	1	1050	U	N3-C2-O2	-12.28	113.60	122.20
85	5	3271	G	C2-N3-C4	12.28	118.04	111.90
36	1	80	G	C8-N9-C4	12.28	111.31	106.40
38	4	96	A	C5-C6-N1	12.28	123.84	117.70
1	2	598	U	N1-C2-N3	12.28	122.27	114.90
36	1	2816	G	N1-C2-N3	12.28	131.27	123.90
85	5	1321	G	N1-C6-O6	12.28	127.27	119.90
36	1	25	U	N3-C4-O4	12.27	127.99	119.40
36	1	633	C	C5-C6-N1	-12.27	114.86	121.00
36	1	2169	G	C5-N7-C8	12.27	110.44	104.30
85	5	2406	C	N3-C4-N4	12.27	126.59	118.00
36	1	3362	A	N7-C8-N9	12.27	119.94	113.80
85	5	1330	A	C5-C6-N1	12.27	123.84	117.70
85	5	2333	C	N3-C2-O2	12.27	130.49	121.90
36	1	1193	A	C4-C5-N7	12.27	116.83	110.70
38	4	61	A	O5'-P-OP1	-12.27	94.66	105.70
80	6	122	U	N1-C2-N3	-12.27	107.54	114.90
85	5	2239	G	C5-N7-C8	-12.27	98.17	104.30
36	1	1450	G	C5-N7-C8	-12.27	98.17	104.30
36	1	935	U	N1-C2-O2	-12.27	114.21	122.80
36	1	2983	C	O5'-P-OP1	-12.27	94.66	105.70
85	5	327	A	O5'-P-OP2	-12.27	94.66	105.70
36	1	806	A	C8-N9-C4	12.26	110.71	105.80
36	1	1515	A	OP1-P-OP2	-12.26	101.20	119.60
85	5	2404	A	O5'-P-OP2	-12.26	94.66	105.70
1	2	1588	G	C2-N3-C4	-12.26	105.77	111.90
36	1	662	U	C5-C6-N1	12.26	128.83	122.70
36	1	2617	U	N3-C2-O2	-12.26	113.62	122.20
85	5	366	A	N1-C2-N3	12.26	135.43	129.30
85	5	1193	A	C2-N3-C4	-12.26	104.47	110.60
85	5	3245	A	C6-C5-N7	-12.26	123.72	132.30
80	6	1131	A	N7-C8-N9	12.26	119.93	113.80
85	5	899	U	N1-C2-N3	12.26	122.25	114.90
1	2	1083	G	N1-C6-O6	12.26	127.25	119.90
85	5	1117	G	C4-C5-N7	12.26	115.70	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1197	A	C6-N1-C2	-12.26	111.25	118.60
85	5	1440	G	N3-C4-N9	-12.26	118.64	126.00
85	5	3008	A	C8-N9-C4	12.26	110.70	105.80
38	8	130	C	C6-N1-C2	-12.26	115.40	120.30
36	1	2601	A	C5-C6-N1	12.25	123.83	117.70
36	1	2691	A	O5'-P-OP1	12.25	125.40	110.70
85	5	774	G	C4-C5-N7	-12.25	105.90	110.80
36	1	2350	C	C4-C5-C6	12.25	123.53	117.40
38	4	63	G	C5-C6-N1	12.25	117.63	111.50
38	4	137	C	N3-C4-N4	12.25	126.58	118.00
85	5	508	U	O5'-P-OP1	-12.25	94.67	105.70
1	2	1726	U	N3-C4-C5	-12.25	107.25	114.60
36	1	919	U	O5'-P-OP1	12.25	125.40	110.70
85	5	2764	C	N3-C4-C5	12.25	126.80	121.90
85	5	2912	G	C8-N9-C4	-12.25	101.50	106.40
80	6	122	U	C2-N1-C1'	-12.24	103.01	117.70
80	6	742	U	N3-C2-O2	12.24	130.77	122.20
85	5	358	G	C6-C5-N7	-12.24	123.05	130.40
85	5	3061	G	O5'-P-OP2	12.24	125.39	110.70
36	1	1825	G	C4-C5-N7	12.24	115.70	110.80
85	5	154	U	N3-C4-O4	12.24	127.97	119.40
37	7	45	A	C6-N1-C2	-12.24	111.25	118.60
36	1	700	C	N3-C4-C5	-12.24	117.00	121.90
36	1	1156	C	C5-C6-N1	-12.24	114.88	121.00
36	1	2791	G	N3-C2-N2	-12.24	111.33	119.90
36	1	787	G	C5-C6-O6	-12.23	121.26	128.60
36	1	924	G	N7-C8-N9	12.23	119.22	113.10
36	1	1100	U	N1-C2-O2	-12.23	114.24	122.80
36	1	1100	U	N3-C2-O2	12.23	130.76	122.20
85	5	230	U	N1-C2-N3	12.23	122.24	114.90
85	5	2821	C	N3-C2-O2	12.23	130.46	121.90
38	8	21	C	O5'-P-OP1	-12.23	94.69	105.70
80	6	652	G	C4-C5-N7	-12.23	105.91	110.80
36	1	2697	A	N1-C6-N6	-12.23	111.26	118.60
85	5	604	G	N1-C6-O6	12.23	127.24	119.90
85	5	3037	U	N1-C2-O2	-12.23	114.24	122.80
85	5	2752	U	N1-C2-N3	12.23	122.24	114.90
85	5	1401	A	C5-C6-N6	-12.22	113.92	123.70
80	6	1117	U	C5-C4-O4	-12.22	118.57	125.90
85	5	2788	C	N3-C2-O2	12.22	130.46	121.90
37	7	77	G	C2-N3-C4	12.22	118.01	111.90
1	2	1563	C	C6-N1-C2	12.22	125.19	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	400	G	N7-C8-N9	12.22	119.21	113.10
36	1	647	A	OP1-P-OP2	-12.22	101.27	119.60
85	5	1306	G	C4-C5-N7	12.22	115.69	110.80
36	1	2851	A	C5-C6-N6	12.22	133.47	123.70
85	5	1411	C	O5'-P-OP1	12.22	125.36	110.70
36	1	665	A	C6-N1-C2	-12.22	111.27	118.60
80	6	339	C	C6-N1-C2	-12.22	115.41	120.30
1	2	73	U	N3-C2-O2	-12.21	113.65	122.20
36	1	651	G	N3-C4-C5	-12.21	122.50	128.60
38	4	111	A	C4-C5-C6	12.21	123.11	117.00
80	6	105	A	N1-C6-N6	12.21	125.93	118.60
80	6	702	G	N1-C6-O6	12.21	127.23	119.90
85	5	970	A	C8-N9-C4	12.21	110.69	105.80
85	5	2362	C	N1-C2-O2	12.21	126.23	118.90
85	5	2401	A	C2-N3-C4	12.21	116.71	110.60
1	2	1190	C	C5-C6-N1	-12.21	114.90	121.00
36	1	1391	C	C6-N1-C2	12.21	125.18	120.30
85	5	2649	A	C8-N9-C4	-12.21	100.92	105.80
36	1	1055	A	O5'-P-OP1	-12.20	94.72	105.70
85	5	1370	G	O5'-P-OP2	12.21	125.35	110.70
85	5	508	U	N1-C2-N3	12.20	122.22	114.90
36	1	3016	A	N1-C6-N6	12.20	125.92	118.60
85	5	1492	G	N3-C4-C5	12.20	134.70	128.60
85	5	1849	C	C5-C6-N1	-12.20	114.90	121.00
85	5	3184	A	C5-N7-C8	-12.20	97.80	103.90
91	P	75	C	C5-C4-N4	-12.20	111.66	120.20
85	5	2407	C	O5'-P-OP2	-12.20	94.72	105.70
85	5	3200	G	C5-N7-C8	-12.20	98.20	104.30
85	5	798	G	C8-N9-C4	-12.20	101.52	106.40
85	5	413	U	N3-C4-O4	12.20	127.94	119.40
85	5	2293	C	N3-C2-O2	-12.20	113.36	121.90
85	5	3271	G	C6-N1-C2	-12.20	117.78	125.10
80	6	920	U	C5-C6-N1	12.19	128.80	122.70
85	5	2880	U	N1-C2-N3	12.20	122.22	114.90
38	8	121	U	C6-N1-C2	-12.20	113.68	121.00
80	6	81	G	OP1-P-O3'	12.19	132.02	105.20
85	5	2339	C	C5-C6-N1	12.19	127.10	121.00
80	6	1641	C	N1-C2-O2	-12.19	111.59	118.90
80	6	1070	C	N3-C4-N4	12.19	126.53	118.00
85	5	353	G	O5'-P-OP2	-12.19	94.73	105.70
85	5	2986	U	N3-C4-C5	-12.19	107.29	114.60
36	1	1175	C	N3-C2-O2	12.19	130.43	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1152	G	N1-C6-O6	12.19	127.21	119.90
85	5	1317	A	C5-N7-C8	-12.19	97.81	103.90
85	5	2368	A	N9-C4-C5	12.19	110.67	105.80
36	1	643	U	N3-C4-O4	12.18	127.93	119.40
37	3	79	A	N1-C2-N3	12.18	135.39	129.30
38	4	33	A	C2-N3-C4	-12.18	104.51	110.60
85	5	2339	C	N1-C2-O2	12.18	126.21	118.90
36	1	811	U	N1-C2-N3	12.18	122.21	114.90
36	1	30	G	C2-N3-C4	-12.18	105.81	111.90
36	1	927	C	N3-C4-N4	12.18	126.53	118.00
36	1	2279	A	C8-N9-C4	-12.18	100.93	105.80
37	3	77	G	C8-N9-C4	-12.18	101.53	106.40
85	5	1043	C	C6-N1-C2	12.18	125.17	120.30
37	7	84	A	N9-C4-C5	12.18	110.67	105.80
85	5	2850	G	C4-C5-C6	12.18	126.11	118.80
36	1	2988	C	N1-C2-O2	-12.17	111.59	118.90
85	5	216	G	C6-C5-N7	-12.17	123.10	130.40
85	5	1399	A	N3-C4-C5	12.17	135.32	126.80
85	5	3264	G	N1-C6-O6	12.17	127.20	119.90
36	1	3182	G	C2-N3-C4	-12.17	105.81	111.90
85	5	3173	G	N1-C2-N3	12.17	131.20	123.90
37	7	16	U	C5-C6-N1	-12.17	116.61	122.70
37	7	20	A	N1-C6-N6	-12.17	111.30	118.60
36	1	68	C	C6-N1-C2	12.17	125.17	120.30
36	1	1191	U	N3-C2-O2	12.17	130.72	122.20
36	1	1553	U	N3-C2-O2	12.17	130.72	122.20
1	2	1490	G	O5'-P-OP1	-12.17	94.75	105.70
85	5	2112	U	O5'-P-OP2	-12.17	94.75	105.70
91	p	75	C	C5-C4-N4	-12.17	111.68	120.20
80	6	122	U	C6-N1-C1'	12.16	138.23	121.20
85	5	2142	A	C6-N1-C2	-12.16	111.30	118.60
85	5	2632	G	O5'-P-OP2	-12.16	94.75	105.70
85	5	2661	G	C6-N1-C2	-12.16	117.80	125.10
36	1	653	A	C5-C6-N6	-12.16	113.97	123.70
36	1	878	G	C5-C6-N1	-12.16	105.42	111.50
36	1	2936	A	OP1-P-OP2	-12.16	101.36	119.60
85	5	787	G	C4-C5-C6	12.16	126.10	118.80
36	1	319	A	N1-C6-N6	-12.16	111.31	118.60
36	1	1424	C	N1-C2-O2	-12.16	111.60	118.90
36	1	2501	U	C5-C6-N1	12.16	128.78	122.70
36	1	2945	G	C4-C5-N7	12.16	115.67	110.80
36	1	3228	C	O5'-P-OP1	12.16	125.29	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	122	U	C5-C4-O4	-12.16	118.60	125.90
85	5	32	U	O5'-P-OP2	-12.16	94.76	105.70
1	2	10	G	N1-C6-O6	-12.16	112.61	119.90
36	1	806	A	N9-C4-C5	-12.16	100.94	105.80
85	5	3312	U	C5-C6-N1	12.16	128.78	122.70
36	1	2730	G	N3-C2-N2	-12.16	111.39	119.90
80	6	1051	G	N1-C6-O6	-12.16	112.61	119.90
85	5	1112	A	C6-N1-C2	-12.16	111.31	118.60
85	5	3325	G	N3-C4-C5	12.16	134.68	128.60
36	1	1434	G	C8-N9-C4	-12.15	101.54	106.40
36	1	2350	C	C2-N3-C4	-12.15	113.82	119.90
80	6	1744	A	C8-N9-C4	12.15	110.66	105.80
85	5	1919	G	N3-C2-N2	-12.15	111.39	119.90
37	7	75	G	C5-C6-N1	-12.15	105.42	111.50
80	6	555	A	C5-C6-N1	12.15	123.78	117.70
80	6	1643	U	N1-C2-N3	12.15	122.19	114.90
85	5	811	U	C5-C6-N1	-12.15	116.62	122.70
1	2	1654	A	C2-N3-C4	-12.15	104.52	110.60
36	1	638	C	N3-C4-C5	-12.15	117.04	121.90
36	1	2704	A	N1-C2-N3	12.15	135.38	129.30
38	4	35	C	N1-C2-O2	-12.15	111.61	118.90
85	5	2280	A	N1-C2-N3	12.15	135.38	129.30
85	5	2302	G	C8-N9-C4	-12.15	101.54	106.40
85	5	1293	U	N1-C2-O2	-12.14	114.30	122.80
85	5	1649	U	N1-C2-O2	-12.14	114.30	122.80
36	1	222	A	C5-N7-C8	-12.14	97.83	103.90
80	6	163	G	C2-N3-C4	-12.14	105.83	111.90
85	5	2127	U	C5-C4-O4	-12.14	118.61	125.90
85	5	1788	C	N3-C4-C5	-12.14	117.04	121.90
85	5	3181	C	O5'-P-OP2	-12.14	94.77	105.70
36	1	2215	A	C2-N3-C4	-12.14	104.53	110.60
85	5	2256	A	N1-C2-N3	-12.14	123.23	129.30
85	5	1423	C	N1-C2-O2	-12.14	111.62	118.90
36	1	1413	G	C5-N7-C8	-12.13	98.23	104.30
36	1	2295	A	C8-N9-C4	-12.13	100.95	105.80
1	2	563	U	N3-C2-O2	-12.13	113.71	122.20
36	1	1808	G	C4-C5-N7	-12.13	105.95	110.80
80	6	18	C	C5-C6-N1	12.13	127.06	121.00
85	5	2321	A	OP1-P-OP2	-12.13	101.41	119.60
36	1	1346	G	N3-C2-N2	-12.13	111.41	119.90
36	1	586	C	N3-C2-O2	12.12	130.39	121.90
36	1	3344	A	C5-N7-C8	-12.12	97.84	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2594	C	O5'-P-OP2	-12.13	94.79	105.70
85	5	2316	G	N1-C2-N3	12.12	131.18	123.90
85	5	1879	A	C4-C5-N7	12.12	116.76	110.70
85	5	2887	A	N9-C4-C5	12.12	110.65	105.80
36	1	178	U	N1-C2-O2	12.12	131.28	122.80
36	1	865	U	C5-C6-N1	-12.12	116.64	122.70
38	8	56	G	N1-C6-O6	12.12	127.17	119.90
80	6	322	G	N1-C6-O6	12.12	127.17	119.90
80	6	1586	A	C8-N9-C4	12.12	110.65	105.80
85	5	2231	C	C4-C5-C6	12.12	123.46	117.40
80	6	1109	G	N3-C4-N9	-12.12	118.73	126.00
80	6	478	A	C2-N3-C4	-12.11	104.54	110.60
85	5	776	U	C5-C4-O4	12.11	133.17	125.90
85	5	937	G	C5-N7-C8	12.12	110.36	104.30
85	5	1316	C	N1-C2-O2	-12.11	111.63	118.90
36	1	1490	A	C2-N3-C4	-12.11	104.54	110.60
36	1	3008	A	C5-N7-C8	-12.11	97.84	103.90
85	5	124	U	N3-C2-O2	-12.11	113.72	122.20
85	5	1414	G	C8-N9-C4	-12.11	101.56	106.40
80	6	1368	G	C8-N9-C4	12.11	111.24	106.40
85	5	907	G	C5-C6-N1	12.11	117.55	111.50
85	5	2116	G	C6-C5-N7	-12.11	123.14	130.40
85	5	2372	A	C5-C6-N1	12.11	123.75	117.70
85	5	2898	G	C2-N3-C4	-12.11	105.84	111.90
85	5	2929	C	C2-N3-C4	-12.11	113.84	119.90
85	5	2963	C	N1-C2-O2	-12.11	111.63	118.90
36	1	1351	U	C5-C6-N1	12.11	128.75	122.70
85	5	2608	G	N1-C6-O6	12.11	127.16	119.90
85	5	2769	A	O5'-P-OP2	-12.11	94.81	105.70
1	2	573	C	C6-N1-C2	12.10	125.14	120.30
36	1	3229	G	C5-C6-O6	-12.10	121.34	128.60
85	5	341	G	N3-C4-N9	-12.10	118.74	126.00
36	1	2134	G	N1-C6-O6	-12.10	112.64	119.90
36	1	2706	G	C6-C5-N7	-12.10	123.14	130.40
85	5	283	G	C5-N7-C8	-12.10	98.25	104.30
85	5	2213	A	C8-N9-C4	12.10	110.64	105.80
36	1	2599	U	O5'-P-OP1	-12.10	94.81	105.70
36	1	2961	G	N1-C2-N3	12.10	131.16	123.90
80	6	652	G	C4-C5-C6	-12.10	111.54	118.80
85	5	2387	A	O5'-P-OP2	-12.10	94.81	105.70
36	1	307	A	C6-N1-C2	-12.10	111.34	118.60
36	1	2360	C	C4-C5-C6	12.10	123.45	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3054	U	N1-C2-N3	12.10	122.16	114.90
85	5	1251	A	C8-N9-C4	-12.10	100.96	105.80
36	1	79	U	N1-C2-O2	-12.09	114.33	122.80
36	1	1415	U	C5-C6-N1	-12.09	116.65	122.70
36	1	1899	G	N1-C6-O6	-12.09	112.64	119.90
36	1	2411	U	C2-N3-C4	-12.09	119.74	127.00
80	6	422	G	C5-C6-O6	-12.09	121.34	128.60
36	1	694	C	C6-N1-C2	-12.09	115.46	120.30
85	5	818	C	C5-C6-N1	-12.09	114.95	121.00
36	1	1112	A	C5-C6-N1	12.09	123.74	117.70
85	5	2935	U	C4-C5-C6	12.09	126.95	119.70
36	1	1919	G	N1-C6-O6	12.09	127.15	119.90
36	1	82	C	N1-C2-O2	-12.08	111.65	118.90
36	1	652	G	C6-N1-C2	-12.08	117.85	125.10
36	1	2119	A	N1-C6-N6	12.08	125.85	118.60
80	6	104	A	O5'-P-OP2	-12.08	94.83	105.70
85	5	958	C	O5'-P-OP1	-12.08	94.83	105.70
85	5	2757	U	N3-C4-C5	-12.08	107.35	114.60
36	1	2640	A	C5-C6-N1	12.08	123.74	117.70
38	4	144	G	C5-N7-C8	12.08	110.34	104.30
85	5	1609	C	C5-C4-N4	-12.08	111.75	120.20
36	1	2627	C	C2-N3-C4	-12.08	113.86	119.90
36	1	2890	A	N1-C6-N6	-12.08	111.36	118.60
80	6	1050	G	N1-C6-O6	12.08	127.15	119.90
85	5	748	U	N1-C2-O2	-12.08	114.35	122.80
36	1	954	U	N1-C2-O2	-12.07	114.35	122.80
85	5	114	A	N1-C6-N6	12.07	125.84	118.60
85	5	957	C	N3-C4-C5	-12.07	117.07	121.90
85	5	2801	A	C6-N1-C2	-12.07	111.36	118.60
85	5	6	A	C8-N9-C4	12.07	110.63	105.80
36	1	222	A	N7-C8-N9	12.07	119.83	113.80
36	1	1323	G	C6-N1-C2	-12.07	117.86	125.10
36	1	2738	A	C6-N1-C2	-12.07	111.36	118.60
37	3	80	G	C5-N7-C8	12.07	110.33	104.30
85	5	1165	A	N1-C2-N3	12.07	135.34	129.30
85	5	2790	A	N1-C2-N3	12.07	135.34	129.30
36	1	753	C	N1-C2-O2	-12.07	111.66	118.90
36	1	804	C	C5-C4-N4	-12.07	111.75	120.20
36	1	966	U	N1-C2-O2	-12.07	114.35	122.80
85	5	728	G	OP1-P-OP2	-12.07	101.50	119.60
85	5	963	G	C4-C5-N7	-12.07	105.97	110.80
85	5	2702	A	C5-C6-N1	-12.07	111.67	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1636	C	C6-N1-C2	-12.06	115.47	120.30
36	1	2554	A	C8-N9-C4	12.06	110.63	105.80
36	1	2746	A	N9-C4-C5	12.06	110.62	105.80
38	4	103	G	C6-N1-C2	-12.06	117.86	125.10
80	6	1118	G	C2-N3-C4	-12.06	105.87	111.90
36	1	2788	C	N3-C2-O2	12.06	130.34	121.90
85	5	2369	G	N1-C6-O6	-12.06	112.66	119.90
85	5	2411	U	N1-C2-N3	12.06	122.14	114.90
36	1	2882	U	O5'-P-OP2	-12.06	94.85	105.70
38	4	107	G	O5'-P-OP1	-12.06	94.85	105.70
85	5	2942	C	N3-C4-C5	-12.06	117.08	121.90
36	1	189	G	C8-N9-C4	-12.05	101.58	106.40
36	1	742	G	N7-C8-N9	12.05	119.13	113.10
36	1	2207	A	C2-N3-C4	12.06	116.63	110.60
85	5	1609	C	N3-C4-N4	12.06	126.44	118.00
36	1	1754	G	C5-C6-O6	-12.05	121.37	128.60
80	6	1719	A	O5'-P-OP1	-12.05	94.85	105.70
85	5	2604	U	O5'-P-OP2	-12.05	94.85	105.70
85	5	31	C	N3-C2-O2	-12.05	113.46	121.90
85	5	2287	C	C6-N1-C2	-12.05	115.48	120.30
36	1	903	U	C4-C5-C6	12.05	126.93	119.70
36	1	3219	G	C5-C6-N1	-12.05	105.47	111.50
36	1	3344	A	C8-N9-C4	-12.05	100.98	105.80
85	5	291	C	N1-C2-O2	-12.05	111.67	118.90
38	8	14	C	C5-C6-N1	-12.05	114.97	121.00
1	2	364	G	C8-N9-C4	-12.05	101.58	106.40
38	4	152	G	N3-C2-N2	-12.05	111.47	119.90
36	1	54	C	C5-C6-N1	-12.05	114.98	121.00
36	1	1656	A	C5-N7-C8	12.05	109.92	103.90
80	6	425	A	C5-C6-N1	12.05	123.72	117.70
85	5	127	G	C8-N9-C4	12.05	111.22	106.40
85	5	1060	U	OP1-P-O3'	12.05	131.71	105.20
36	1	719	U	C5-C4-O4	-12.04	118.67	125.90
36	1	2951	G	O5'-P-OP1	-12.04	94.86	105.70
36	1	3375	A	C5-C6-N1	-12.04	111.68	117.70
37	3	80	G	C4-C5-N7	-12.04	105.98	110.80
85	5	1202	A	N1-C2-N3	12.05	135.32	129.30
80	6	273	G	N1-C6-O6	12.04	127.13	119.90
85	5	421	G	OP1-P-O3'	12.04	131.70	105.20
85	5	2754	G	C4-C5-N7	-12.04	105.98	110.80
80	6	453	U	N3-C4-C5	-12.04	107.38	114.60
36	1	2174	G	N1-C2-N2	-12.04	105.36	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	504	A	C5-N7-C8	-12.04	97.88	103.90
85	5	2117	A	C5-C6-N1	12.04	123.72	117.70
85	5	2665	U	C6-N1-C2	-12.04	113.78	121.00
1	2	429	G	C8-N9-C4	-12.04	101.59	106.40
36	1	335	G	N3-C2-N2	-12.04	111.47	119.90
36	1	577	C	C6-N1-C2	-12.03	115.49	120.30
80	6	1659	A	N1-C2-N3	12.04	135.32	129.30
36	1	856	G	C5-C6-N1	12.03	117.52	111.50
36	1	39	A	C5-C6-N1	12.03	123.72	117.70
85	5	2644	C	C5-C4-N4	12.03	128.62	120.20
36	1	59	G	C5-C6-N1	-12.03	105.49	111.50
36	1	1548	C	N3-C2-O2	12.03	130.32	121.90
85	5	104	G	N1-C6-O6	12.03	127.12	119.90
36	1	925	A	N1-C2-N3	12.03	135.31	129.30
36	1	981	U	N1-C2-O2	-12.03	114.38	122.80
36	1	1416	C	N3-C4-C5	12.03	126.71	121.90
36	1	693	A	N1-C6-N6	12.02	125.81	118.60
36	1	2507	C	C6-N1-C2	-12.02	115.49	120.30
1	2	1224	G	C8-N9-C4	-12.02	101.59	106.40
36	1	278	U	C6-N1-C2	-12.02	113.79	121.00
85	5	1863	G	C5-C6-N1	-12.02	105.49	111.50
36	1	2972	G	C5-N7-C8	-12.01	98.29	104.30
85	5	402	A	O5'-P-OP2	-12.01	94.89	105.70
85	5	978	G	C5-C6-N1	12.01	117.51	111.50
37	7	42	A	O5'-P-OP1	-12.01	94.89	105.70
36	1	1931	U	C5-C6-N1	-12.01	116.69	122.70
80	6	777	C	C6-N1-C2	-12.01	115.50	120.30
85	5	2732	G	N1-C6-O6	12.01	127.11	119.90
36	1	1450	G	C5-C6-N1	12.01	117.50	111.50
85	5	2757	U	C4-C5-C6	12.01	126.91	119.70
85	5	3046	A	N1-C2-N3	12.01	135.30	129.30
36	1	2616	C	C5-C6-N1	12.01	127.00	121.00
37	3	101	G	C2-N3-C4	-12.01	105.90	111.90
85	5	1446	A	C5-N7-C8	12.01	109.90	103.90
80	6	102	U	N3-C2-O2	12.01	130.60	122.20
36	1	422	A	OP1-P-OP2	-12.00	101.59	119.60
85	5	1301	A	C8-N9-C4	-12.00	101.00	105.80
85	5	2906	C	N1-C2-O2	-12.00	111.70	118.90
38	8	24	G	C5-C6-N1	12.00	117.50	111.50
1	2	1774	A	N1-C6-N6	12.00	125.80	118.60
85	5	2658	G	O5'-P-OP2	-12.00	94.90	105.70
85	5	2825	C	C4-C5-C6	-12.00	111.40	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	654	C	N3-C4-C5	-12.00	117.10	121.90
36	1	867	G	C4-C5-C6	12.00	126.00	118.80
36	1	2953	U	C5-C6-N1	12.00	128.70	122.70
85	5	1805	C	C5-C6-N1	-12.00	115.00	121.00
85	5	2637	A	C8-N9-C4	-12.00	101.00	105.80
85	5	2778	G	C5-C6-O6	-12.00	121.40	128.60
85	5	3267	A	C5-C6-N1	12.00	123.70	117.70
85	5	1828	A	N1-C6-N6	-11.99	111.40	118.60
36	1	941	G	O5'-P-OP2	-11.99	94.91	105.70
36	1	2756	C	N3-C2-O2	-11.99	113.50	121.90
85	5	2326	A	C5-N7-C8	11.99	109.90	103.90
85	5	3127	A	C5-C6-N1	11.99	123.70	117.70
85	5	3248	C	N1-C2-O2	-11.99	111.70	118.90
36	1	3025	C	C2-N3-C4	-11.99	113.91	119.90
36	1	3300	U	N1-C2-N3	11.99	122.09	114.90
36	1	2800	G	N3-C4-C5	-11.99	122.61	128.60
85	5	1923	C	C5-C6-N1	11.99	126.99	121.00
85	5	1178	G	C8-N9-C4	-11.99	101.61	106.40
85	5	3312	U	N3-C4-C5	-11.99	107.41	114.60
80	6	1537	C	C2-N3-C4	11.98	125.89	119.90
36	1	652	G	C5-C6-N1	11.98	117.49	111.50
36	1	1379	G	N1-C2-N3	11.98	131.09	123.90
85	5	704	U	C5-C6-N1	11.98	128.69	122.70
36	1	585	A	C6-C5-N7	-11.98	123.91	132.30
37	7	115	G	C4-C5-N7	11.98	115.59	110.80
36	1	2670	G	C6-C5-N7	-11.98	123.21	130.40
38	4	148	G	O5'-P-OP2	-11.98	94.92	105.70
36	1	701	G	C6-N1-C2	-11.98	117.91	125.10
36	1	1852	G	C5-N7-C8	-11.98	98.31	104.30
38	4	23	U	C5-C4-O4	11.98	133.09	125.90
85	5	1001	G	N1-C6-O6	-11.98	112.71	119.90
85	5	1134	G	O5'-P-OP2	-11.98	94.92	105.70
85	5	2791	G	C6-N1-C2	-11.98	117.91	125.10
80	6	590	C	N1-C2-O2	-11.98	111.72	118.90
85	5	974	G	C8-N9-C4	-11.98	101.61	106.40
85	5	1159	A	N1-C6-N6	11.98	125.79	118.60
85	5	1446	A	C4-C5-N7	-11.98	104.71	110.70
38	4	17	A	N1-C2-N3	11.97	135.29	129.30
85	5	1458	U	C6-N1-C2	-11.97	113.81	121.00
85	5	3327	G	C4-C5-N7	-11.97	106.01	110.80
85	5	1152	G	C4-C5-N7	11.97	115.59	110.80
36	1	1852	G	C6-C5-N7	-11.97	123.22	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3133	C	C6-N1-C2	-11.97	115.51	120.30
80	6	327	U	N3-C4-O4	11.97	127.78	119.40
80	6	438	A	O5'-P-OP2	-11.97	94.92	105.70
85	5	1128	U	C5-C4-O4	-11.97	118.72	125.90
85	5	2401	A	O5'-P-OP1	-11.97	94.93	105.70
36	1	2343	C	C6-N1-C2	11.97	125.09	120.30
85	5	1862	U	C2-N3-C4	11.97	134.18	127.00
36	1	1089	G	C8-N9-C4	11.96	111.19	106.40
85	5	994	G	C2-N3-C4	11.96	117.88	111.90
40	13	4	ARG	NE-CZ-NH2	-11.96	114.32	120.30
80	6	127	G	N1-C6-O6	11.96	127.08	119.90
36	1	1636	U	N3-C2-O2	11.96	130.57	122.20
80	6	119	A	N1-C2-N3	11.96	135.28	129.30
85	5	400	G	C8-N9-C4	-11.96	101.62	106.40
85	5	2418	G	C2-N3-C4	11.96	117.88	111.90
36	1	2399	A	C5-N7-C8	-11.96	97.92	103.90
36	1	2858	U	N3-C4-C5	-11.96	107.42	114.60
85	5	743	C	C4-C5-C6	11.96	123.38	117.40
85	5	2305	G	C5-C6-N1	11.96	117.48	111.50
85	5	2316	G	N1-C6-O6	-11.96	112.73	119.90
36	1	1371	G	C5-C6-N1	-11.95	105.52	111.50
85	5	652	G	C5-C6-O6	11.96	135.77	128.60
36	1	713	U	C2-N3-C4	-11.95	119.83	127.00
36	1	697	A	N1-C6-N6	11.95	125.77	118.60
36	1	1470	U	C5-C6-N1	-11.95	116.72	122.70
36	1	2323	G	C5-C6-N1	11.95	117.48	111.50
85	5	786	A	C4-C5-C6	11.95	122.97	117.00
85	5	2873	U	N1-C2-N3	11.95	122.07	114.90
36	1	1473	G	N1-C6-O6	11.95	127.07	119.90
36	1	3135	U	N3-C4-O4	11.95	127.77	119.40
85	5	581	U	C6-N1-C2	-11.95	113.83	121.00
85	5	2355	G	N1-C2-N3	11.95	131.07	123.90
36	1	1897	G	C5-C6-O6	-11.95	121.43	128.60
36	1	2647	A	N1-C6-N6	11.95	125.77	118.60
85	5	279	U	N3-C2-O2	11.94	130.56	122.20
85	5	595	G	N1-C2-N3	11.95	131.07	123.90
36	1	2551	U	O5'-P-OP1	-11.94	94.95	105.70
36	1	535	G	N1-C2-N3	11.94	131.06	123.90
85	5	2726	C	N1-C2-O2	-11.94	111.73	118.90
36	1	3022	G	C5-C6-N1	11.94	117.47	111.50
38	4	103	G	N1-C6-O6	-11.94	112.74	119.90
80	6	151	G	C8-N9-C4	-11.94	101.62	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	633	C	N1-C2-O2	-11.94	111.74	118.90
85	5	721	G	C6-C5-N7	-11.94	123.24	130.40
85	5	2147	A	C8-N9-C4	-11.94	101.02	105.80
85	5	244	G	N9-C4-C5	-11.94	100.62	105.40
37	7	50	U	C5-C6-N1	11.94	128.67	122.70
38	8	15	G	N9-C4-C5	11.94	110.17	105.40
36	1	3200	G	O5'-P-OP1	-11.94	94.96	105.70
36	1	1672	U	C5-C6-N1	11.94	128.67	122.70
85	5	61	A	C4-C5-C6	11.94	122.97	117.00
85	5	2233	A	C5-C6-N6	11.94	133.25	123.70
85	5	2550	U	C5-C4-O4	11.94	133.06	125.90
85	5	2621	G	O5'-P-OP2	-11.94	94.96	105.70
85	5	2709	C	N1-C2-O2	-11.94	111.74	118.90
85	5	2744	U	N3-C4-O4	11.94	127.75	119.40
85	5	2812	C	C6-N1-C2	-11.94	115.53	120.30
85	5	911	C	C6-N1-C2	-11.93	115.53	120.30
85	5	1499	C	C6-N1-C2	-11.93	115.53	120.30
85	5	2627	C	N1-C2-O2	-11.93	111.74	118.90
85	5	1898	G	C4-C5-N7	-11.93	106.03	110.80
85	5	2984	C	N1-C2-N3	11.93	127.55	119.20
38	4	10	A	O5'-P-OP2	-11.93	94.96	105.70
80	6	373	G	N1-C6-O6	-11.93	112.74	119.90
85	5	737	G	N1-C6-O6	-11.93	112.74	119.90
36	1	1112	A	C6-N1-C2	-11.93	111.44	118.60
85	5	862	U	OP1-P-OP2	-11.93	101.71	119.60
85	5	1462	A	C2-N3-C4	-11.93	104.64	110.60
85	5	2363	A	C5-N7-C8	-11.93	97.94	103.90
36	1	2284	C	C6-N1-C2	-11.93	115.53	120.30
80	6	464	A	C2-N3-C4	-11.93	104.64	110.60
85	5	2644	C	N1-C2-N3	11.93	127.55	119.20
85	5	3376	A	O5'-P-OP1	-11.93	94.97	105.70
36	1	168	U	C4-C5-C6	11.92	126.85	119.70
36	1	1311	G	N3-C2-N2	-11.92	111.55	119.90
36	1	2718	U	N3-C2-O2	-11.92	113.85	122.20
37	7	71	G	C8-N9-C4	11.92	111.17	106.40
85	5	2389	C	N3-C4-C5	11.92	126.67	121.90
85	5	2400	G	C6-C5-N7	-11.92	123.25	130.40
37	3	78	U	N3-C2-O2	11.92	130.54	122.20
36	1	315	C	C5-C6-N1	11.92	126.96	121.00
85	5	519	A	C5-C6-N6	-11.92	114.16	123.70
85	5	1872	C	C6-N1-C2	-11.92	115.53	120.30
85	5	3294	A	N1-C2-N3	11.92	135.26	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1414	G	N3-C2-N2	-11.92	111.56	119.90
36	1	1540	U	N1-C2-O2	-11.92	114.46	122.80
36	1	2623	G	C2-N3-C4	-11.92	105.94	111.90
36	1	3128	G	N3-C4-C5	-11.92	122.64	128.60
37	3	121	U	N3-C2-O2	11.92	130.54	122.20
85	5	2395	G	C5-C6-O6	-11.92	121.45	128.60
85	5	817	A	O5'-P-OP1	-11.91	94.98	105.70
36	1	307	A	O5'-P-OP2	-11.91	94.98	105.70
36	1	2742	C	C6-N1-C2	11.91	125.06	120.30
38	4	112	U	O5'-P-OP1	-11.91	94.98	105.70
85	5	1432	C	N1-C2-N3	11.91	127.54	119.20
36	1	1406	A	C6-N1-C2	-11.91	111.45	118.60
80	6	122	U	N3-C4-C5	11.91	121.75	114.60
80	6	1015	U	C5-C4-O4	11.91	133.05	125.90
36	1	784	A	C4-C5-C6	11.91	122.95	117.00
85	5	275	U	N3-C2-O2	-11.91	113.86	122.20
36	1	3175	U	N3-C2-O2	-11.91	113.87	122.20
85	5	1786	G	C8-N9-C4	-11.91	101.64	106.40
80	6	103	A	N7-C8-N9	11.90	119.75	113.80
85	5	3245	A	C4-C5-N7	11.90	116.65	110.70
38	8	38	U	O5'-P-OP2	-11.90	94.99	105.70
36	1	1919	G	N7-C8-N9	11.90	119.05	113.10
80	6	475	A	C6-N1-C2	-11.90	111.46	118.60
85	5	1175	C	N3-C4-C5	11.90	126.66	121.90
85	5	3141	A	N1-C2-N3	11.90	135.25	129.30
85	5	3302	U	C6-N1-C2	11.90	128.14	121.00
1	2	1612	G	C8-N9-C4	-11.90	101.64	106.40
36	1	3042	U	N1-C2-O2	-11.90	114.47	122.80
80	6	33	U	C6-N1-C2	-11.90	113.86	121.00
38	4	106	C	C5-C6-N1	-11.89	115.05	121.00
36	1	1118	C	C6-N1-C2	-11.89	115.54	120.30
36	1	1467	A	C6-N1-C2	-11.89	111.47	118.60
85	5	295	A	C4-C5-N7	11.89	116.65	110.70
36	1	2433	U	C5-C4-O4	-11.89	118.77	125.90
85	5	2272	G	C2-N3-C4	11.89	117.84	111.90
85	5	2659	G	OP1-P-OP2	-11.89	101.77	119.60
36	1	1162	U	N1-C2-N3	11.89	122.03	114.90
36	1	547	G	N1-C6-O6	11.89	127.03	119.90
36	1	3135	U	C6-N1-C2	-11.89	113.87	121.00
85	5	3377	G	C5-C6-O6	-11.89	121.47	128.60
80	6	95	G	C4-C5-N7	-11.88	106.05	110.80
80	6	1659	A	C5-C6-N1	-11.88	111.76	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	355	A	N1-C2-N3	11.88	135.24	129.30
36	1	936	A	C5-C6-N1	-11.88	111.76	117.70
36	1	1734	G	C8-N9-C4	11.88	111.15	106.40
36	1	2974	U	C6-N1-C2	-11.88	113.87	121.00
85	5	1399	A	N1-C6-N6	11.88	125.73	118.60
85	5	937	G	C4-C5-N7	-11.88	106.05	110.80
85	5	1406	A	C5-C6-N6	-11.88	114.20	123.70
85	5	1411	C	O5'-P-OP2	-11.88	95.01	105.70
85	5	2725	U	C5-C6-N1	11.88	128.64	122.70
85	5	2871	G	N7-C8-N9	11.88	119.04	113.10
85	5	3161	C	C5-C6-N1	11.88	126.94	121.00
36	1	973	A	N1-C2-N3	11.88	135.24	129.30
85	5	531	G	O5'-P-OP1	-11.88	95.01	105.70
85	5	581	U	N3-C4-O4	11.88	127.71	119.40
85	5	820	A	N7-C8-N9	11.88	119.74	113.80
85	5	863	C	C2-N3-C4	-11.88	113.96	119.90
85	5	2221	G	C8-N9-C4	11.88	111.15	106.40
80	6	9	U	N1-C2-O2	-11.87	114.49	122.80
1	2	1253	G	C8-N9-C4	11.87	111.15	106.40
36	1	658	G	N1-C2-N3	11.87	131.02	123.90
36	1	2096	A	C8-N9-C4	-11.87	101.05	105.80
85	5	2531	C	N1-C2-O2	11.87	126.02	118.90
36	1	1933	A	C5-N7-C8	-11.87	97.97	103.90
36	1	2822	U	N1-C2-O2	-11.87	114.49	122.80
85	5	2288	G	N1-C2-N2	-11.87	105.52	116.20
85	5	2928	C	C6-N1-C2	-11.87	115.55	120.30
1	2	1132	G	C2-N3-C4	11.87	117.83	111.90
80	6	263	C	N1-C2-O2	-11.87	111.78	118.90
80	6	1051	G	C5-C6-N1	11.87	117.43	111.50
85	5	1011	A	C2-N3-C4	-11.87	104.67	110.60
85	5	2654	C	C5-C6-N1	11.87	126.93	121.00
80	6	1636	C	C6-N1-C2	-11.87	115.55	120.30
85	5	868	C	C6-N1-C2	11.87	125.05	120.30
85	5	2725	U	C5-C4-O4	11.87	133.02	125.90
85	5	3102	G	C5-C6-O6	11.86	135.72	128.60
36	1	1297	C	C5-C6-N1	-11.86	115.07	121.00
80	6	1656	U	O5'-P-OP1	11.86	124.93	110.70
85	5	1432	C	C6-N1-C2	-11.86	115.56	120.30
85	5	2643	A	C5-C6-N6	-11.86	114.21	123.70
85	5	2994	A	C5-C6-N6	-11.86	114.21	123.70
36	1	2871	G	C8-N9-C4	-11.86	101.66	106.40
36	1	2937	G	C5-C6-N1	11.86	117.43	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	95	G	C5-C6-O6	-11.86	121.49	128.60
85	5	693	A	N7-C8-N9	11.86	119.73	113.80
85	5	862	U	N1-C2-O2	-11.86	114.50	122.80
85	5	2860	U	O5'-P-OP2	-11.86	95.03	105.70
36	1	110	G	N1-C2-N3	11.85	131.01	123.90
1	2	594	A	N1-C6-N6	-11.85	111.49	118.60
80	6	422	G	N1-C6-O6	11.85	127.01	119.90
85	5	83	U	C4-C5-C6	11.85	126.81	119.70
85	5	867	G	C6-C5-N7	-11.85	123.29	130.40
85	5	1409	G	O5'-P-OP2	-11.85	95.03	105.70
85	5	2136	C	N1-C2-N3	11.85	127.50	119.20
80	6	646	C	C5-C6-N1	11.85	126.92	121.00
80	6	1070	C	C5-C4-N4	11.85	128.50	120.20
37	7	73	C	N1-C2-O2	11.85	126.01	118.90
36	1	2725	U	N3-C2-O2	-11.85	113.91	122.20
85	5	2192	C	C2-N3-C4	11.85	125.82	119.90
36	1	614	C	N1-C2-O2	-11.85	111.79	118.90
37	3	56	A	C8-N9-C4	11.85	110.54	105.80
80	6	73	U	N3-C2-O2	11.85	130.49	122.20
85	5	930	U	N3-C4-C5	11.85	121.71	114.60
36	1	1822	C	N3-C2-O2	-11.84	113.61	121.90
36	1	3305	A	N9-C4-C5	11.84	110.54	105.80
85	5	2346	C	N3-C4-N4	11.84	126.29	118.00
85	5	2775	U	C4-C5-C6	11.84	126.81	119.70
85	5	3388	C	N3-C2-O2	-11.84	113.61	121.90
36	1	977	C	N3-C4-C5	-11.84	117.16	121.90
80	6	18	C	C6-N1-C2	-11.84	115.56	120.30
80	6	1053	G	N7-C8-N9	11.84	119.02	113.10
85	5	2619	G	C6-C5-N7	11.84	137.50	130.40
85	5	3379	C	O5'-P-OP2	11.84	124.90	110.70
38	8	75	G	OP1-P-O3'	11.84	131.24	105.20
36	1	904	A	C5-C6-N6	11.83	133.17	123.70
36	1	1526	U	N3-C2-O2	-11.83	113.92	122.20
85	5	3057	U	N1-C2-O2	11.83	131.08	122.80
85	5	1590	G	C8-N9-C4	-11.83	101.67	106.40
85	5	3167	A	C8-N9-C4	-11.83	101.07	105.80
85	5	3339	A	C8-N9-C4	-11.83	101.07	105.80
36	1	714	G	N1-C6-O6	-11.83	112.80	119.90
80	6	617	U	N1-C2-N3	11.83	122.00	114.90
85	5	1343	A	N1-C6-N6	11.83	125.70	118.60
1	2	957	A	C8-N9-C4	11.83	110.53	105.80
36	1	609	G	C5-N7-C8	-11.83	98.39	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	630	A	C5-C6-N1	11.83	123.61	117.70
36	1	2309	A	O5'-P-OP1	-11.83	95.06	105.70
80	6	590	C	C6-N1-C2	-11.83	115.57	120.30
85	5	1433	A	N7-C8-N9	11.83	119.71	113.80
36	1	18	G	C5-N7-C8	-11.82	98.39	104.30
36	1	159	A	N9-C4-C5	-11.82	101.07	105.80
36	1	324	A	N9-C4-C5	11.82	110.53	105.80
36	1	867	G	C2-N3-C4	-11.82	105.99	111.90
36	1	2362	C	O5'-P-OP2	-11.82	95.06	105.70
85	5	354	U	N3-C4-O4	11.82	127.68	119.40
85	5	2416	U	N1-C2-N3	11.82	122.00	114.90
85	5	2718	U	C5-C6-N1	-11.82	116.79	122.70
36	1	1386	A	C5-C6-N1	11.82	123.61	117.70
38	4	67	U	C4-C5-C6	11.82	126.79	119.70
38	4	144	G	N9-C4-C5	11.82	110.13	105.40
85	5	1512	U	C5-C4-O4	11.82	132.99	125.90
85	5	3333	G	C2-N3-C4	-11.81	105.99	111.90
36	1	606	C	O5'-P-OP2	-11.81	95.07	105.70
36	1	1578	C	N3-C4-C5	-11.81	117.17	121.90
85	5	2223	A	N9-C4-C5	11.81	110.53	105.80
36	1	1585	C	C6-N1-C2	-11.81	115.58	120.30
85	5	937	G	C8-N9-C4	11.81	111.12	106.40
85	5	2680	A	C5-C6-N1	11.81	123.61	117.70
85	5	3388	C	C5-C6-N1	-11.81	115.09	121.00
85	5	1879	A	N7-C8-N9	11.81	119.70	113.80
37	7	65	G	C4-C5-N7	11.81	115.52	110.80
85	5	569	A	N7-C8-N9	-11.81	107.90	113.80
85	5	354	U	O5'-P-OP1	11.81	124.87	110.70
85	5	2158	A	C5-C6-N1	11.81	123.60	117.70
85	5	3153	U	N3-C4-C5	11.81	121.69	114.60
36	1	920	A	N1-C6-N6	-11.80	111.52	118.60
85	5	216	G	C5-C6-N1	-11.80	105.60	111.50
85	5	688	G	O5'-P-OP1	-11.80	95.08	105.70
85	5	2619	G	C8-N9-C4	11.80	111.12	106.40
36	1	2175	U	N3-C4-O4	-11.80	111.14	119.40
36	1	159	A	C8-N9-C4	11.80	110.52	105.80
85	5	33	G	O5'-P-OP2	-11.80	95.08	105.70
85	5	690	A	N1-C6-N6	-11.80	111.52	118.60
85	5	1077	U	N3-C4-C5	11.80	121.68	114.60
85	5	350	C	O5'-P-OP1	-11.80	95.08	105.70
37	7	26	C	C6-N1-C2	-11.80	115.58	120.30
36	1	315	C	O5'-P-OP2	-11.79	95.08	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1005	G	N1-C6-O6	11.79	126.98	119.90
85	5	1588	A	N1-C6-N6	-11.79	111.52	118.60
36	1	1132	C	C6-N1-C2	-11.79	115.58	120.30
85	5	880	G	N1-C2-N3	11.79	130.97	123.90
85	5	1190	A	N1-C2-N3	11.79	135.20	129.30
85	5	2731	U	N1-C2-N3	11.79	121.97	114.90
36	1	201	A	N1-C2-N3	11.79	135.19	129.30
1	2	1010	A	C6-C5-N7	-11.79	124.05	132.30
36	1	323	A	N7-C8-N9	-11.79	107.91	113.80
36	1	2636	A	N1-C6-N6	-11.79	111.53	118.60
36	1	1098	A	C8-N9-C4	-11.79	101.09	105.80
36	1	1888	U	C2-N3-C4	-11.79	119.93	127.00
85	5	2629	U	N1-C2-O2	-11.79	114.55	122.80
1	2	325	G	C5-C6-N1	-11.78	105.61	111.50
36	1	241	G	N1-C6-O6	11.78	126.97	119.90
85	5	274	G	N1-C6-O6	11.78	126.97	119.90
85	5	2685	C	N3-C4-C5	11.78	126.61	121.90
37	7	100	C	N1-C2-O2	-11.78	111.83	118.90
36	1	1468	A	N1-C2-N3	11.78	135.19	129.30
36	1	274	G	C8-N9-C4	11.78	111.11	106.40
36	1	1595	U	OP1-P-OP2	-11.78	101.93	119.60
36	1	2440	G	C4-C5-N7	-11.78	106.09	110.80
80	6	1651	A	C8-N9-C4	-11.78	101.09	105.80
38	8	56	G	C5-C6-N1	-11.78	105.61	111.50
80	6	66	U	N3-C2-O2	11.78	130.44	122.20
85	5	2190	U	N1-C2-N3	11.78	121.97	114.90
36	1	753	C	N3-C2-O2	11.78	130.14	121.90
36	1	927	C	C6-N1-C2	-11.78	115.59	120.30
36	1	3204	C	N3-C4-C5	11.78	126.61	121.90
36	1	3277	U	N1-C2-N3	-11.78	107.83	114.90
36	1	2197	C	C6-N1-C2	11.78	125.01	120.30
38	4	115	C	C5-C6-N1	-11.78	115.11	121.00
80	6	540	G	C8-N9-C4	11.78	111.11	106.40
85	5	1880	U	N1-C2-N3	11.78	121.97	114.90
85	5	2933	A	N9-C4-C5	11.78	110.51	105.80
36	1	284	A	C8-N9-C4	-11.77	101.09	105.80
85	5	1781	C	C5-C6-N1	11.77	126.89	121.00
36	1	22	G	C6-N1-C2	-11.77	118.04	125.10
80	6	92	A	C2-N3-C4	-11.77	104.71	110.60
85	5	863	C	N3-C4-C5	11.77	126.61	121.90
1	2	144	U	N3-C2-O2	-11.77	113.96	122.20
36	1	57	A	C5-C6-N1	-11.77	111.81	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	217	U	N1-C2-O2	-11.77	114.56	122.80
36	1	1400	G	C4-C5-N7	-11.77	106.09	110.80
36	1	2324	A	C8-N9-C4	-11.77	101.09	105.80
80	6	25	C	N1-C2-N3	-11.77	110.96	119.20
85	5	1197	A	N1-C2-N3	11.77	135.18	129.30
1	2	1647	C	C6-N1-C2	-11.77	115.59	120.30
36	1	513	G	O5'-P-OP1	-11.77	95.11	105.70
36	1	3083	G	C5-C6-N1	11.77	117.38	111.50
85	5	48	A	N1-C2-N3	11.77	135.18	129.30
85	5	1375	G	C6-N1-C2	11.77	132.16	125.10
85	5	2747	A	O5'-P-OP1	11.77	124.82	110.70
1	2	1010	A	C4-C5-N7	11.76	116.58	110.70
36	1	369	A	C5-N7-C8	-11.76	98.02	103.90
36	1	1433	A	N3-C4-C5	-11.76	118.56	126.80
36	1	1603	A	C2-N3-C4	11.76	116.48	110.60
85	5	400	G	O5'-P-OP1	-11.76	95.11	105.70
85	5	941	G	C6-N1-C2	-11.76	118.04	125.10
85	5	1908	A	C2-N3-C4	11.76	116.48	110.60
36	1	2650	U	N3-C2-O2	-11.76	113.97	122.20
36	1	632	G	C5-N7-C8	-11.76	98.42	104.30
36	1	860	G	N1-C6-O6	11.76	126.95	119.90
36	1	914	A	C5-N7-C8	11.76	109.78	103.90
85	5	202	G	C8-N9-C4	11.76	111.10	106.40
36	1	59	G	C4-C5-N7	11.76	115.50	110.80
36	1	371	G	N1-C6-O6	11.76	126.95	119.90
80	6	347	G	C2-N3-C4	-11.76	106.02	111.90
85	5	681	U	N3-C4-C5	-11.76	107.55	114.60
85	5	830	A	N1-C2-N3	11.76	135.18	129.30
85	5	2324	A	N1-C6-N6	11.76	125.66	118.60
85	5	3079	U	O5'-P-OP2	11.76	124.81	110.70
80	6	1757	G	C8-N9-C4	11.76	111.10	106.40
85	5	1001	G	C4-C5-N7	-11.76	106.10	110.80
85	5	2229	A	N1-C2-N3	11.76	135.18	129.30
36	1	1372	C	C5-C6-N1	-11.75	115.12	121.00
80	6	1100	G	C6-C5-N7	-11.75	123.35	130.40
1	2	264	G	C8-N9-C4	11.75	111.10	106.40
85	5	194	U	C2-N3-C4	-11.75	119.95	127.00
36	1	421	G	N1-C6-O6	-11.75	112.85	119.90
38	4	116	G	C5-C6-N1	-11.75	105.63	111.50
36	1	3110	C	C6-N1-C2	-11.75	115.60	120.30
80	6	1145	U	N1-C2-O2	-11.75	114.58	122.80
85	5	880	G	N7-C8-N9	-11.75	107.23	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1869	C	N3-C4-C5	11.75	126.60	121.90
36	1	1841	A	O5'-P-OP1	-11.74	95.13	105.70
85	5	2396	G	C8-N9-C4	-11.74	101.70	106.40
85	5	2824	G	N1-C6-O6	11.74	126.95	119.90
36	1	619	A	N1-C6-N6	11.74	125.64	118.60
36	1	2939	G	C5-C6-O6	11.74	135.65	128.60
37	3	82	G	N1-C2-N3	11.74	130.94	123.90
38	8	72	A	C2-N3-C4	-11.74	104.73	110.60
36	1	352	A	O5'-P-OP1	-11.74	95.13	105.70
36	1	1495	U	N1-C2-N3	11.74	121.94	114.90
85	5	747	A	N1-C2-N3	11.74	135.17	129.30
38	8	34	U	C4-C5-C6	11.74	126.74	119.70
36	1	1617	G	N1-C6-O6	11.73	126.94	119.90
36	1	2237	C	N3-C4-C5	11.73	126.59	121.90
85	5	911	C	N3-C4-C5	-11.73	117.21	121.90
85	5	1186	G	C8-N9-C4	-11.73	101.71	106.40
85	5	2809	C	O5'-P-OP2	-11.73	95.14	105.70
36	1	721	G	N1-C6-O6	11.73	126.94	119.90
36	1	1887	A	N1-C2-N3	11.73	135.17	129.30
85	5	2790	A	C5-C6-N1	-11.73	111.83	117.70
85	5	3223	A	C5-C6-N1	11.73	123.57	117.70
1	2	1254	G	O5'-P-OP2	-11.73	95.14	105.70
36	1	608	A	C8-N9-C4	-11.73	101.11	105.80
36	1	638	C	C5-C6-N1	11.73	126.86	121.00
85	5	2724	U	N1-C2-O2	-11.73	114.59	122.80
1	2	1715	A	N1-C2-N3	11.73	135.16	129.30
36	1	324	A	N7-C8-N9	11.73	119.66	113.80
38	4	89	A	C2-N3-C4	-11.73	104.74	110.60
80	6	427	C	N1-C2-N3	11.73	127.41	119.20
85	5	383	G	N3-C4-C5	11.73	134.46	128.60
36	1	178	U	N3-C4-O4	-11.73	111.19	119.40
85	5	1834	U	N3-C4-C5	-11.73	107.56	114.60
85	5	1346	G	N1-C6-O6	11.72	126.93	119.90
36	1	1434	G	C5-N7-C8	-11.72	98.44	104.30
36	1	1502	C	O5'-P-OP2	-11.72	95.15	105.70
1	2	1396	U	N1-C2-O2	11.72	131.00	122.80
36	1	2760	C	N3-C4-C5	11.72	126.59	121.90
85	5	2892	A	O5'-P-OP2	-11.72	95.16	105.70
85	5	3141	A	C4-C5-C6	11.72	122.86	117.00
1	2	573	C	C5-C6-N1	-11.72	115.14	121.00
85	5	1272	C	C6-N1-C2	-11.72	115.61	120.30
37	7	65	G	C5-N7-C8	-11.71	98.44	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	212	G	C2-N3-C4	11.71	117.75	111.90
36	1	388	G	C5-N7-C8	-11.71	98.44	104.30
80	6	441	A	N1-C2-N3	11.71	135.16	129.30
85	5	672	A	C4-C5-C6	-11.71	111.14	117.00
85	5	1077	U	C6-N1-C2	11.71	128.03	121.00
85	5	2318	U	N3-C4-O4	11.71	127.60	119.40
85	5	2854	U	C5-C4-O4	-11.71	118.87	125.90
85	5	2911	A	C8-N9-C4	-11.71	101.12	105.80
36	1	789	A	N7-C8-N9	11.71	119.65	113.80
80	6	1131	A	C5-C6-N1	11.71	123.55	117.70
85	5	2939	G	C2-N3-C4	-11.71	106.05	111.90
38	8	73	U	N3-C2-O2	-11.71	114.00	122.20
36	1	1666	G	C5-C6-N1	-11.71	105.65	111.50
85	5	2385	G	N3-C4-N9	-11.71	118.98	126.00
36	1	1532	C	C6-N1-C2	11.71	124.98	120.30
85	5	88	A	C5-C6-N1	-11.71	111.85	117.70
36	1	37	U	N1-C2-O2	-11.70	114.61	122.80
36	1	1389	G	N1-C2-N3	-11.70	116.88	123.90
36	1	2876	C	N1-C2-O2	-11.70	111.88	118.90
80	6	884	A	C8-N9-C4	11.70	110.48	105.80
37	7	38	U	N1-C2-O2	-11.70	114.61	122.80
85	5	584	G	C4-C5-N7	-11.70	106.12	110.80
36	1	275	U	N3-C4-C5	-11.70	107.58	114.60
91	p	75	C	N3-C2-O2	11.70	130.09	121.90
36	1	168	U	C2-N3-C4	-11.70	119.98	127.00
36	1	656	A	C8-N9-C4	-11.70	101.12	105.80
85	5	3102	G	N1-C2-N3	11.70	130.92	123.90
36	1	2881	C	C5-C6-N1	-11.70	115.15	121.00
38	4	115	C	N3-C4-C5	11.70	126.58	121.90
80	6	768	C	C6-N1-C2	11.70	124.98	120.30
85	5	2157	G	C5-C6-N1	11.69	117.35	111.50
85	5	2429	G	N1-C2-N3	11.70	130.92	123.90
85	5	2793	G	N1-C6-O6	11.69	126.92	119.90
85	5	2903	A	N1-C6-N6	-11.70	111.58	118.60
85	5	3210	A	C5-C6-N1	11.70	123.55	117.70
36	1	267	G	C2-N3-C4	-11.69	106.05	111.90
36	1	1796	G	C5-C6-O6	-11.69	121.58	128.60
36	1	2116	G	C5-C6-O6	11.69	135.62	128.60
85	5	3223	A	N1-C6-N6	-11.69	111.58	118.60
36	1	960	U	C6-N1-C2	11.69	128.01	121.00
36	1	2706	G	C4-C5-N7	11.69	115.48	110.80
80	6	427	C	C2-N3-C4	-11.69	114.06	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	197	G	C6-C5-N7	-11.69	123.39	130.40
85	5	910	G	N1-C6-O6	11.69	126.91	119.90
85	5	793	C	C5-C4-N4	-11.69	112.02	120.20
36	1	299	G	N3-C4-C5	11.69	134.44	128.60
85	5	282	G	C8-N9-C4	-11.69	101.73	106.40
36	1	516	A	C2-N3-C4	-11.68	104.76	110.60
85	5	917	A	C5-N7-C8	-11.68	98.06	103.90
36	1	938	C	N1-C2-O2	-11.68	111.89	118.90
85	5	381	U	N3-C4-C5	-11.68	107.59	114.60
36	1	1112	A	O5'-P-OP2	-11.68	95.19	105.70
36	1	2607	G	N9-C4-C5	-11.68	100.73	105.40
37	3	29	C	N3-C2-O2	-11.68	113.72	121.90
85	5	1466	G	C5-C6-N1	-11.68	105.66	111.50
85	5	2415	C	C2-N3-C4	-11.68	114.06	119.90
85	5	2986	U	O5'-P-OP2	-11.68	95.19	105.70
36	1	1181	U	N3-C2-O2	-11.68	114.03	122.20
36	1	2834	G	N1-C2-N2	-11.68	105.69	116.20
85	5	1792	C	N3-C4-C5	-11.68	117.23	121.90
85	5	2160	G	C5-C6-N1	11.68	117.34	111.50
36	1	1548	C	C2-N3-C4	11.68	125.74	119.90
85	5	1890	U	O5'-P-OP2	-11.68	95.19	105.70
85	5	1852	G	C5-N7-C8	-11.68	98.46	104.30
36	1	641	C	N3-C4-N4	11.67	126.17	118.00
36	1	1134	G	N3-C4-C5	-11.67	122.76	128.60
36	1	2528	G	N1-C6-O6	11.67	126.90	119.90
85	5	1337	A	O5'-P-OP2	-11.67	95.19	105.70
38	4	93	U	C5-C4-O4	11.67	132.90	125.90
1	2	411	C	C6-N1-C2	-11.67	115.63	120.30
80	6	1589	C	C6-N1-C2	-11.67	115.63	120.30
85	5	1447	G	N3-C4-N9	11.67	133.00	126.00
85	5	2738	A	C6-N1-C2	-11.67	111.60	118.60
36	1	71	A	C6-N1-C2	-11.67	111.60	118.60
80	6	842	C	N3-C4-C5	-11.67	117.23	121.90
85	5	206	G	N3-C4-C5	-11.67	122.77	128.60
85	5	1375	G	N1-C6-O6	11.67	126.90	119.90
85	5	3181	C	O5'-P-OP1	11.67	124.70	110.70
36	1	2746	A	C5-C6-N6	11.66	133.03	123.70
37	3	110	G	C4-C5-N7	-11.66	106.13	110.80
85	5	344	A	O5'-P-OP1	-11.66	95.20	105.70
85	5	1667	A	C4-C5-N7	11.66	116.53	110.70
85	5	2769	A	C8-N9-C4	11.66	110.47	105.80
36	1	515	C	N3-C2-O2	11.66	130.06	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3270	U	C5-C4-O4	11.66	132.90	125.90
80	6	204	G	N3-C4-N9	-11.66	119.00	126.00
85	5	652	G	N1-C6-O6	-11.66	112.90	119.90
85	5	2353	G	N1-C6-O6	11.66	126.90	119.90
85	5	2828	G	C4-C5-N7	11.66	115.47	110.80
91	P	75	C	N3-C2-O2	11.66	130.06	121.90
85	5	1317	A	N1-C6-N6	11.66	125.60	118.60
80	6	1654	G	C5-C6-N1	-11.66	105.67	111.50
85	5	1536	G	N1-C6-O6	11.66	126.90	119.90
85	5	2215	A	C4-C5-N7	11.66	116.53	110.70
85	5	2693	C	C2-N3-C4	-11.66	114.07	119.90
85	5	2984	C	N3-C4-C5	-11.66	117.24	121.90
36	1	901	G	N3-C2-N2	-11.66	111.74	119.90
36	1	1382	G	C6-N1-C2	-11.66	118.11	125.10
85	5	1069	C	N3-C2-O2	-11.66	113.74	121.90
36	1	1004	U	N1-C2-N3	11.66	121.89	114.90
36	1	1790	G	C5-C6-O6	-11.66	121.61	128.60
85	5	2405	C	N1-C2-O2	11.65	125.89	118.90
1	2	16	G	N3-C4-C5	-11.65	122.78	128.60
36	1	656	A	O5'-P-OP2	-11.65	95.22	105.70
37	3	114	U	N3-C2-O2	-11.65	114.05	122.20
36	1	1801	U	C2-N3-C4	-11.65	120.01	127.00
85	5	3184	A	N1-C6-N6	11.65	125.59	118.60
36	1	2137	U	N1-C2-O2	11.65	130.95	122.80
85	5	910	G	C4-C5-N7	11.65	115.46	110.80
85	5	2852	C	N3-C4-C5	11.65	126.56	121.90
38	8	138	A	C4-C5-N7	-11.65	104.88	110.70
1	2	1469	G	C2-N3-C4	-11.64	106.08	111.90
1	2	1535	U	C5-C6-N1	11.64	128.52	122.70
36	1	18	G	C8-N9-C4	-11.64	101.74	106.40
36	1	90	C	C6-N1-C2	11.64	124.96	120.30
36	1	596	C	N3-C2-O2	-11.64	113.75	121.90
36	1	1424	C	C2-N3-C4	-11.64	114.08	119.90
85	5	1190	A	C5-C6-N6	11.64	133.01	123.70
36	1	970	A	C5-N7-C8	-11.64	98.08	103.90
36	1	1854	C	C6-N1-C2	-11.64	115.64	120.30
85	5	917	A	C8-N9-C4	-11.64	101.14	105.80
38	8	54	A	C8-N9-C4	-11.64	101.14	105.80
85	5	1250	G	OP2-P-O3'	11.64	130.81	105.20
36	1	673	U	OP1-P-OP2	-11.64	102.14	119.60
36	1	2610	G	N7-C8-N9	11.64	118.92	113.10
85	5	2728	G	N1-C2-N2	-11.64	105.72	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1131	A	C2-N3-C4	11.64	116.42	110.60
85	5	644	G	N9-C4-C5	11.64	110.06	105.40
85	5	652	G	C6-C5-N7	11.64	137.38	130.40
85	5	1199	C	N3-C2-O2	11.64	130.05	121.90
85	5	2395	G	N7-C8-N9	11.64	118.92	113.10
37	7	80	G	N1-C2-N3	11.64	130.88	123.90
36	1	1178	G	C6-N1-C2	-11.63	118.12	125.10
36	1	2519	A	N1-C6-N6	11.63	125.58	118.60
80	6	46	A	N1-C2-N3	11.64	135.12	129.30
80	6	972	G	C4-C5-N7	11.64	115.45	110.80
80	6	459	G	C5-C6-O6	-11.63	121.62	128.60
80	6	1169	G	C8-N9-C4	-11.63	101.75	106.40
36	1	393	U	C6-N1-C2	-11.63	114.02	121.00
85	5	965	A	O5'-P-OP2	-11.63	95.23	105.70
85	5	1368	U	O5'-P-OP1	-11.63	95.23	105.70
85	5	3067	C	C2-N3-C4	-11.63	114.08	119.90
85	5	2675	C	C5-C6-N1	11.63	126.81	121.00
85	5	3135	U	C5-C4-O4	11.63	132.88	125.90
36	1	800	G	C2-N3-C4	-11.63	106.09	111.90
36	1	1202	A	N1-C6-N6	11.63	125.58	118.60
36	1	1493	G	N1-C2-N3	11.63	130.88	123.90
80	6	1788	G	C2-N3-C4	-11.63	106.09	111.90
85	5	2742	C	N3-C4-C5	11.63	126.55	121.90
85	5	592	A	C2-N3-C4	-11.63	104.79	110.60
77	q1	21	ARG	NE-CZ-NH1	-11.63	114.49	120.30
36	1	1375	G	N9-C4-C5	11.63	110.05	105.40
85	5	509	U	N1-C2-N3	11.63	121.88	114.90
85	5	2814	G	N1-C6-O6	11.63	126.88	119.90
36	1	925	A	N9-C4-C5	11.62	110.45	105.80
38	4	32	C	N3-C4-C5	11.62	126.55	121.90
80	6	20	G	O5'-P-OP1	-11.62	95.24	105.70
85	5	2900	A	N7-C8-N9	-11.62	107.99	113.80
36	1	1148	G	C4-C5-N7	11.62	115.45	110.80
85	5	981	U	C5-C6-N1	11.62	128.51	122.70
85	5	1903	U	C5-C6-N1	11.62	128.51	122.70
36	1	88	A	C4-C5-N7	-11.62	104.89	110.70
36	1	2928	C	C4-C5-C6	11.62	123.21	117.40
36	1	2629	U	O5'-P-OP1	-11.61	95.25	105.70
36	1	3248	C	N1-C2-O2	-11.61	111.93	118.90
85	5	437	G	C5-C6-N1	11.61	117.31	111.50
85	5	880	G	O5'-P-OP2	-11.61	95.25	105.70
85	5	1152	G	O5'-P-OP1	-11.61	95.25	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	7	65	G	N7-C8-N9	11.61	118.91	113.10
38	8	79	A	C8-N9-C4	-11.61	101.16	105.80
85	5	349	A	C8-N9-C4	-11.61	101.16	105.80
85	5	1779	C	O4'-C1'-N1	-11.61	98.91	108.20
85	5	2134	G	C8-N9-C4	11.61	111.04	106.40
36	1	1644	C	C6-N1-C2	-11.61	115.66	120.30
85	5	2620	G	N7-C8-N9	11.61	118.90	113.10
36	1	3026	G	C4-C5-C6	11.60	125.76	118.80
85	5	2830	G	C8-N9-C4	11.60	111.04	106.40
85	5	715	A	N1-C6-N6	-11.60	111.64	118.60
85	5	1429	G	C5-C6-N1	11.60	117.30	111.50
85	5	2704	A	OP2-P-O3'	11.60	130.72	105.20
85	5	1019	G	C5-C6-O6	11.60	135.56	128.60
85	5	2938	G	C5-C6-N1	11.60	117.30	111.50
80	6	596	C	N1-C2-O2	-11.60	111.94	118.90
85	5	349	A	C5-C6-N1	11.60	123.50	117.70
85	5	734	C	N3-C4-C5	11.60	126.54	121.90
85	5	917	A	N7-C8-N9	11.60	119.60	113.80
38	8	11	C	N3-C4-C5	-11.60	117.26	121.90
85	5	64	G	C8-N9-C4	-11.59	101.76	106.40
85	5	795	G	C2-N3-C4	-11.59	106.10	111.90
80	6	419	G	N7-C8-N9	11.59	118.90	113.10
38	8	2	A	C8-N9-C4	-11.59	101.16	105.80
36	1	208	C	C6-N1-C2	-11.59	115.66	120.30
36	1	375	A	N1-C6-N6	-11.59	111.65	118.60
36	1	2873	U	C5-C6-N1	-11.59	116.91	122.70
80	6	1148	C	N3-C2-O2	-11.59	113.79	121.90
36	1	2906	C	C2-N3-C4	-11.59	114.11	119.90
85	5	1116	G	N1-C6-O6	-11.59	112.95	119.90
85	5	3094	A	C5-C6-N1	-11.59	111.91	117.70
85	5	3300	U	C4-C5-C6	11.59	126.65	119.70
1	2	343	C	C6-N1-C2	-11.59	115.67	120.30
80	6	442	C	O5'-P-OP2	-11.59	95.27	105.70
36	1	89	A	N9-C4-C5	11.59	110.43	105.80
36	1	883	A	N9-C4-C5	11.58	110.43	105.80
36	1	898	U	C5-C4-O4	-11.58	118.95	125.90
36	1	2434	U	N3-C2-O2	-11.58	114.09	122.20
80	6	1010	C	N3-C4-C5	-11.58	117.27	121.90
80	6	1755	A	O5'-P-OP1	-11.58	95.28	105.70
85	5	1355	A	C5-C6-N1	-11.58	111.91	117.70
85	5	3105	U	C5-C6-N1	-11.58	116.91	122.70
1	2	553	G	C6-C5-N7	-11.58	123.45	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	590	G	C5-C6-O6	-11.58	121.65	128.60
80	6	1645	G	C5-N7-C8	-11.58	98.51	104.30
36	1	400	G	C6-C5-N7	-11.58	123.45	130.40
36	1	1450	G	C4-C5-N7	11.58	115.43	110.80
85	5	139	G	C5-C6-O6	-11.58	121.66	128.60
85	5	872	U	C5-C4-O4	-11.57	118.95	125.90
38	8	62	C	N3-C2-O2	11.57	130.00	121.90
36	1	2209	U	C5-C4-O4	-11.57	118.96	125.90
36	1	2687	G	O5'-P-OP2	-11.57	95.28	105.70
36	1	1371	G	N7-C8-N9	-11.57	107.31	113.10
80	6	82	U	O5'-P-OP2	-11.57	95.28	105.70
85	5	2900	A	C8-N9-C4	11.57	110.43	105.80
38	4	16	G	C6-N1-C2	-11.57	118.16	125.10
80	6	151	G	N9-C4-C5	11.57	110.03	105.40
85	5	1462	A	O5'-P-OP2	11.57	124.58	110.70
85	5	1878	G	C5-C6-N1	11.57	117.28	111.50
85	5	2167	A	C8-N9-C4	-11.57	101.17	105.80
85	5	2626	A	N1-C2-N3	11.57	135.09	129.30
36	1	2647	A	C5-C6-N6	-11.57	114.45	123.70
36	1	2726	C	N1-C2-O2	-11.57	111.96	118.90
85	5	2208	A	C2-N3-C4	-11.57	104.82	110.60
85	5	774	G	N3-C2-N2	-11.56	111.81	119.90
85	5	910	G	C5-N7-C8	-11.56	98.52	104.30
85	5	1596	C	C4-C5-C6	11.56	123.18	117.40
85	5	2716	U	C5-C4-O4	11.56	132.84	125.90
80	6	1421	A	C8-N9-C4	11.56	110.42	105.80
85	5	725	G	C4-C5-N7	-11.56	106.18	110.80
85	5	1155	C	C5-C6-N1	11.56	126.78	121.00
85	5	2624	G	C8-N9-C4	-11.56	101.78	106.40
36	1	2802	A	C2-N3-C4	-11.56	104.82	110.60
36	1	77	A	N1-C2-N3	11.56	135.08	129.30
36	1	895	A	C5-N7-C8	-11.56	98.12	103.90
85	5	393	U	N3-C4-O4	11.56	127.49	119.40
85	5	2208	A	C4-C5-N7	-11.56	104.92	110.70
85	5	2420	C	C5-C4-N4	-11.56	112.11	120.20
85	5	2599	U	N1-C2-O2	-11.56	114.71	122.80
85	5	2642	A	C2-N3-C4	-11.56	104.82	110.60
85	5	2642	A	O5'-P-OP2	-11.56	95.30	105.70
85	5	2950	G	N7-C8-N9	11.56	118.88	113.10
36	1	405	U	N1-C2-O2	11.56	130.89	122.80
36	1	224	C	N3-C2-O2	11.55	129.99	121.90
85	5	643	U	C5-C4-O4	-11.55	118.97	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	280	U	O5'-P-OP1	-11.55	95.30	105.70
36	1	697	A	O5'-P-OP1	-11.55	95.30	105.70
80	6	1789	G	C6-N1-C2	-11.55	118.17	125.10
85	5	711	A	C2-N3-C4	-11.55	104.82	110.60
85	5	984	G	C6-C5-N7	-11.55	123.47	130.40
80	6	28	A	C8-N9-C4	-11.55	101.18	105.80
85	5	207	U	C5-C4-O4	-11.55	118.97	125.90
85	5	383	G	C2-N3-C4	-11.55	106.12	111.90
38	8	52	A	C8-N9-C4	-11.55	101.18	105.80
1	2	312	A	N1-C2-N3	11.55	135.07	129.30
36	1	1513	G	C6-N1-C2	-11.55	118.17	125.10
37	7	65	G	C8-N9-C4	-11.55	101.78	106.40
36	1	41	G	C8-N9-C4	-11.55	101.78	106.40
36	1	1152	G	N3-C2-N2	-11.55	111.82	119.90
36	1	2827	U	N3-C4-O4	11.54	127.48	119.40
85	5	649	A	C5-C6-N6	-11.54	114.46	123.70
85	5	997	A	C6-N1-C2	-11.54	111.67	118.60
80	6	548	G	N3-C2-N2	-11.54	111.82	119.90
85	5	2613	U	N1-C2-N3	11.54	121.83	114.90
85	5	2693	C	C5-C6-N1	-11.54	115.23	121.00
85	5	2925	C	C5-C6-N1	-11.54	115.23	121.00
85	5	2944	U	N3-C4-O4	-11.54	111.32	119.40
36	1	1852	G	N9-C4-C5	-11.54	100.78	105.40
85	5	787	G	O5'-P-OP1	-11.54	95.32	105.70
85	5	1194	G	C2-N3-C4	11.54	117.67	111.90
85	5	1418	A	N1-C6-N6	11.54	125.52	118.60
36	1	1348	U	N1-C2-N3	-11.53	107.98	114.90
85	5	2267	C	C2-N3-C4	-11.54	114.13	119.90
36	1	1111	U	C2-N3-C4	-11.53	120.08	127.00
36	1	2380	U	C4-C5-C6	-11.53	112.78	119.70
85	5	2272	G	C5-C6-O6	-11.53	121.68	128.60
36	1	2646	C	C4-C5-C6	11.53	123.17	117.40
85	5	2903	A	N1-C2-N3	11.53	135.06	129.30
85	5	1598	G	N1-C6-O6	-11.53	112.98	119.90
36	1	826	G	N1-C6-O6	11.53	126.82	119.90
80	6	594	A	N1-C6-N6	-11.53	111.68	118.60
36	1	2136	C	N3-C4-C5	-11.53	117.29	121.90
80	6	396	G	N1-C2-N2	-11.53	105.83	116.20
85	5	1382	G	C4-C5-N7	11.53	115.41	110.80
36	1	913	A	C5-N7-C8	-11.52	98.14	103.90
36	1	2205	U	O5'-P-OP2	-11.52	95.33	105.70
80	6	778	G	C5-C6-N1	11.52	117.26	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1107	C	N1-C2-O2	-11.52	111.99	118.90
36	1	18	G	N7-C8-N9	11.52	118.86	113.10
80	6	565	C	N3-C4-N4	-11.52	109.94	118.00
85	5	195	U	N1-C2-O2	-11.52	114.74	122.80
85	5	760	G	N1-C6-O6	11.52	126.81	119.90
36	1	1825	G	N9-C4-C5	-11.52	100.79	105.40
85	5	404	G	C8-N9-C4	-11.52	101.79	106.40
85	5	703	G	O5'-P-OP1	-11.52	95.33	105.70
85	5	2865	U	N1-C2-N3	-11.52	107.99	114.90
85	5	2820	A	N7-C8-N9	11.52	119.56	113.80
36	1	815	G	N3-C2-N2	-11.51	111.84	119.90
80	6	1653	C	C4-C5-C6	11.51	123.16	117.40
85	5	82	C	C4-C5-C6	11.51	123.16	117.40
85	5	1070	U	N3-C2-O2	-11.51	114.14	122.20
85	5	3332	U	C5-C4-O4	-11.51	118.99	125.90
37	7	77	G	N1-C6-O6	-11.51	112.99	119.90
37	7	109	G	C8-N9-C4	-11.51	101.80	106.40
85	5	2181	C	C6-N1-C2	11.51	124.90	120.30
85	5	743	C	C6-N1-C2	-11.51	115.70	120.30
85	5	878	G	N7-C8-N9	11.51	118.86	113.10
85	5	3240	C	C4-C5-C6	-11.51	111.64	117.40
36	1	1413	G	N1-C6-O6	11.51	126.80	119.90
80	6	54	C	N3-C2-O2	11.51	129.95	121.90
85	5	1005	G	C5-C6-N1	-11.51	105.75	111.50
85	5	1313	G	C5-C6-N1	-11.51	105.75	111.50
85	5	2430	A	C2-N3-C4	-11.51	104.85	110.60
85	5	3019	U	O5'-P-OP1	-11.51	95.35	105.70
85	5	3215	A	C4-C5-N7	11.51	116.45	110.70
36	1	1122	U	C6-N1-C2	-11.50	114.10	121.00
36	1	773	G	N1-C2-N2	11.50	126.55	116.20
85	5	1301	A	C5-N7-C8	-11.50	98.15	103.90
85	5	2698	G	C5-C6-O6	11.50	135.50	128.60
38	8	41	A	OP2-P-O3'	11.50	130.51	105.20
36	1	2149	A	C8-N9-C4	11.50	110.40	105.80
85	5	1205	A	C8-N9-C4	-11.50	101.20	105.80
36	1	1307	G	C6-N1-C2	-11.50	118.20	125.10
38	4	66	A	C2-N3-C4	-11.50	104.85	110.60
80	6	1044	U	O5'-P-OP2	-11.50	95.35	105.70
37	3	82	G	C4-C5-N7	-11.49	106.20	110.80
80	6	335	U	N1-C2-N3	11.49	121.80	114.90
80	6	347	G	C4-C5-N7	-11.49	106.20	110.80
85	5	645	A	N9-C4-C5	11.49	110.40	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1448	U	C6-N1-C2	11.49	127.90	121.00
36	1	2758	A	C6-C5-N7	11.49	140.34	132.30
85	5	808	A	C5-C6-N6	-11.49	114.51	123.70
36	1	343	U	C2-N3-C4	-11.49	120.11	127.00
85	5	769	G	C8-N9-C4	11.49	111.00	106.40
85	5	1725	C	N1-C2-O2	-11.49	112.01	118.90
36	1	379	C	N1-C2-O2	-11.48	112.01	118.90
36	1	1805	C	C2-N3-C4	-11.48	114.16	119.90
85	5	1494	U	N1-C2-N3	11.48	121.79	114.90
85	5	2220	A	C8-N9-C4	-11.48	101.21	105.80
85	5	2303	A	N1-C6-N6	11.48	125.49	118.60
37	7	115	G	C5-C6-N1	11.48	117.24	111.50
80	6	628	G	C2-N3-C4	-11.48	106.16	111.90
80	6	561	G	N1-C6-O6	11.48	126.79	119.90
85	5	108	A	C8-N9-C4	11.48	110.39	105.80
85	5	1012	G	N1-C6-O6	11.48	126.79	119.90
85	5	1474	A	C2-N3-C4	-11.48	104.86	110.60
85	5	1693	C	N1-C2-O2	11.48	125.79	118.90
85	5	2187	G	N7-C8-N9	11.48	118.84	113.10
37	7	75	G	N3-C4-C5	11.48	134.34	128.60
85	5	2403	G	C4-C5-C6	11.48	125.69	118.80
36	1	105	C	C5-C4-N4	-11.47	112.17	120.20
36	1	229	G	C8-N9-C4	-11.47	101.81	106.40
85	5	1667	A	C5-N7-C8	-11.47	98.16	103.90
36	1	1005	G	C8-N9-C4	11.47	110.99	106.40
85	5	174	C	N3-C4-C5	11.47	126.49	121.90
85	5	1409	G	N1-C2-N2	-11.47	105.88	116.20
85	5	2603	G	N3-C4-C5	11.47	134.34	128.60
37	3	87	G	C8-N9-C4	-11.47	101.81	106.40
85	5	2156	C	N3-C4-C5	11.47	126.49	121.90
85	5	3373	U	C2-N3-C4	-11.47	120.12	127.00
36	1	577	C	N3-C4-C5	-11.47	117.31	121.90
36	1	1725	C	N1-C2-O2	-11.47	112.02	118.90
36	1	2709	C	N3-C2-O2	-11.47	113.87	121.90
80	6	578	U	C5-C6-N1	-11.47	116.97	122.70
85	5	1201	C	N3-C4-N4	11.47	126.03	118.00
85	5	2389	C	OP1-P-OP2	-11.47	102.40	119.60
1	2	54	C	C6-N1-C2	-11.47	115.71	120.30
36	1	751	A	C4-C5-N7	11.47	116.43	110.70
36	1	974	G	N1-C6-O6	-11.46	113.02	119.90
37	7	95	A	C8-N9-C4	-11.47	101.21	105.80
1	2	433	C	C6-N1-C2	-11.46	115.72	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	28	C	O5'-P-OP2	-11.46	95.39	105.70
36	1	1045	C	N3-C4-C5	-11.46	117.32	121.90
36	1	1643	A	C5-C6-N1	11.46	123.43	117.70
85	5	513	G	N3-C4-C5	-11.46	122.87	128.60
37	7	103	A	C2-N3-C4	11.46	116.33	110.60
1	2	1765	A	C5-C6-N1	-11.46	111.97	117.70
36	1	2136	C	N3-C2-O2	11.46	129.92	121.90
36	1	2647	A	C5-N7-C8	-11.46	98.17	103.90
85	5	755	A	C5-C6-N6	-11.46	114.53	123.70
85	5	2731	U	O5'-P-OP1	-11.46	95.39	105.70
85	5	3180	A	N1-C6-N6	-11.46	111.73	118.60
1	2	1714	A	N1-C6-N6	11.46	125.47	118.60
36	1	755	A	C5-C6-N1	11.46	123.43	117.70
36	1	2645	G	C6-N1-C2	-11.46	118.23	125.10
36	1	2719	U	C4-C5-C6	11.46	126.57	119.70
36	1	2187	G	C2-N3-C4	-11.45	106.17	111.90
80	6	110	U	C5-C4-O4	11.45	132.77	125.90
85	5	2124	G	N1-C2-N3	11.46	130.77	123.90
85	5	2392	C	N3-C4-C5	11.45	126.48	121.90
36	1	1578	C	C2-N3-C4	11.45	125.62	119.90
85	5	1281	G	C8-N9-C4	-11.45	101.82	106.40
85	5	2624	G	N7-C8-N9	11.45	118.83	113.10
85	5	1035	G	N3-C4-C5	-11.45	122.88	128.60
85	5	1424	C	C4-C5-C6	-11.45	111.67	117.40
36	1	2223	A	C2-N3-C4	-11.45	104.88	110.60
36	1	2631	U	N3-C2-O2	-11.45	114.19	122.20
85	5	3239	G	N3-C4-C5	11.45	134.32	128.60
36	1	43	A	C6-N1-C2	11.45	125.47	118.60
36	1	657	A	C5-N7-C8	-11.45	98.18	103.90
36	1	2953	U	C6-N1-C2	-11.45	114.13	121.00
85	5	1373	A	C5-C6-N1	11.45	123.42	117.70
85	5	2344	U	N1-C2-N3	11.45	121.77	114.90
85	5	2922	G	C5-C6-O6	-11.44	121.73	128.60
36	1	387	A	N9-C4-C5	11.44	110.38	105.80
36	1	1563	C	N3-C4-C5	11.44	126.48	121.90
85	5	418	A	C5-N7-C8	-11.44	98.18	103.90
85	5	845	G	C5-C6-N1	11.44	117.22	111.50
85	5	1873	U	N3-C4-O4	11.44	127.41	119.40
85	5	2138	A	O5'-P-OP2	-11.44	95.40	105.70
36	1	2134	G	O5'-P-OP1	-11.44	95.41	105.70
85	5	193	C	C6-N1-C2	11.44	124.88	120.30
85	5	2775	U	N3-C2-O2	-11.44	114.19	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1202	A	C8-N9-C4	-11.44	101.23	105.80
37	7	76	A	C5-C6-N1	-11.44	111.98	117.70
36	1	1794	G	C6-C5-N7	-11.43	123.54	130.40
36	1	2326	A	C8-N9-C4	11.43	110.37	105.80
36	1	2972	G	N1-C2-N2	11.43	126.49	116.20
38	8	142	C	C2-N3-C4	-11.43	114.18	119.90
36	1	848	A	N1-C6-N6	-11.43	111.74	118.60
80	6	1151	A	C8-N9-C4	-11.43	101.23	105.80
36	1	293	C	C6-N1-C2	11.43	124.87	120.30
85	5	1067	U	O5'-P-OP1	-11.43	95.42	105.70
85	5	1116	G	C5-C6-O6	11.43	135.46	128.60
36	1	231	G	O5'-P-OP2	-11.43	95.42	105.70
36	1	1754	G	N1-C6-O6	11.43	126.76	119.90
36	1	1913	A	C2-N3-C4	11.43	116.31	110.60
85	5	2405	C	N1-C2-N3	11.43	127.20	119.20
85	5	2851	A	N1-C2-N3	11.43	135.01	129.30
85	5	3299	A	C4-C5-N7	-11.43	104.99	110.70
36	1	2859	U	N1-C2-O2	-11.42	114.80	122.80
85	5	2372	A	C2-N3-C4	11.42	116.31	110.60
1	2	245	U	C5-C6-N1	-11.42	116.99	122.70
36	1	233	C	C4-C5-C6	11.42	123.11	117.40
85	5	907	G	O5'-P-OP2	-11.42	95.42	105.70
85	5	2397	A	C5-C6-N1	11.42	123.41	117.70
85	5	2876	C	C5-C6-N1	-11.42	115.29	121.00
85	5	56	G	N1-C6-O6	11.42	126.75	119.90
85	5	3047	U	C5-C4-O4	11.42	132.75	125.90
85	5	3272	C	C6-N1-C2	11.42	124.87	120.30
85	5	50	U	C5-C6-N1	11.42	128.41	122.70
85	5	1112	A	C5-C6-N1	11.42	123.41	117.70
85	5	2120	A	O5'-P-OP2	-11.41	95.43	105.70
85	5	2767	U	C6-N1-C2	-11.41	114.15	121.00
36	1	1173	U	C5-C6-N1	-11.41	116.99	122.70
80	6	128	U	C5-C6-N1	-11.41	116.99	122.70
37	7	84	A	C5-C6-N1	11.41	123.41	117.70
80	6	1656	U	N3-C2-O2	11.41	130.19	122.20
36	1	1825	G	C8-N9-C4	11.41	110.96	106.40
85	5	1441	G	C5-C6-O6	-11.41	121.75	128.60
85	5	2095	G	N7-C8-N9	-11.41	107.39	113.10
85	5	2988	C	O5'-P-OP2	-11.41	95.43	105.70
36	1	644	G	N9-C4-C5	11.41	109.96	105.40
36	1	3241	G	C4-C5-N7	-11.41	106.24	110.80
80	6	415	C	C6-N1-C2	-11.41	115.74	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	778	U	OP1-P-OP2	-11.41	102.49	119.60
85	5	2278	C	N1-C2-N3	-11.41	111.22	119.20
38	8	43	A	O5'-P-OP2	-11.41	95.43	105.70
36	1	257	U	O5'-P-OP2	11.40	124.38	110.70
36	1	1298	C	C5-C6-N1	-11.40	115.30	121.00
36	1	1529	A	C2-N3-C4	-11.40	104.90	110.60
36	1	2613	U	N3-C4-C5	-11.40	107.76	114.60
80	6	1136	U	N1-C2-O2	11.40	130.78	122.80
36	1	1182	A	C2-N3-C4	-11.40	104.90	110.60
36	1	3099	C	N3-C2-O2	11.40	129.88	121.90
36	1	3108	G	N1-C6-O6	-11.40	113.06	119.90
80	6	1137	A	N3-C4-C5	11.40	134.78	126.80
36	1	1383	G	C4-C5-N7	11.40	115.36	110.80
36	1	1430	U	O5'-P-OP2	-11.40	95.44	105.70
85	5	219	A	C5-C6-N1	-11.40	112.00	117.70
85	5	588	G	C2-N3-C4	11.40	117.60	111.90
38	8	110	C	N1-C2-N3	11.40	127.18	119.20
36	1	3107	U	N3-C2-O2	-11.40	114.22	122.20
85	5	656	A	C6-C5-N7	-11.40	124.32	132.30
1	2	835	C	C6-N1-C2	11.39	124.86	120.30
85	5	755	A	N1-C6-N6	11.39	125.44	118.60
36	1	104	G	C6-C5-N7	-11.39	123.57	130.40
36	1	2954	U	N1-C2-O2	-11.39	114.83	122.80
80	6	364	G	N1-C2-N3	11.39	130.74	123.90
85	5	1197	A	N9-C4-C5	11.39	110.36	105.80
85	5	2404	A	N1-C2-N3	-11.39	123.60	129.30
37	7	85	G	C5-N7-C8	-11.39	98.61	104.30
36	1	59	G	C5-N7-C8	-11.39	98.61	104.30
36	1	1759	C	N3-C4-C5	11.39	126.45	121.90
85	5	1101	G	O5'-P-OP2	-11.39	95.45	105.70
36	1	3025	C	N3-C4-C5	11.39	126.45	121.90
80	6	1118	G	C5-C6-N1	-11.39	105.81	111.50
85	5	698	U	N1-C2-O2	-11.39	114.83	122.80
85	5	1434	G	C5-C6-O6	-11.39	121.77	128.60
54	m8	151	ARG	NE-CZ-NH1	-11.39	114.61	120.30
1	2	606	A	C2-N3-C4	-11.39	104.91	110.60
80	6	356	G	N1-C6-O6	-11.39	113.07	119.90
80	6	1129	U	C5-C4-O4	11.38	132.73	125.90
85	5	689	U	N1-C2-N3	11.39	121.73	114.90
85	5	2142	A	N9-C4-C5	11.38	110.35	105.80
85	5	2239	G	C4-C5-N7	11.38	115.35	110.80
85	5	3043	C	N3-C2-O2	11.39	129.87	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	886	C	C6-N1-C2	11.38	124.85	120.30
36	1	2802	A	OP2-P-O3'	11.38	130.24	105.20
80	6	143	G	C6-C5-N7	-11.38	123.57	130.40
85	5	121	A	N1-C6-N6	11.38	125.43	118.60
85	5	668	G	N1-C6-O6	-11.38	113.07	119.90
85	5	2140	U	OP1-P-OP2	-11.38	102.53	119.60
36	1	2982	A	C5-C6-N1	11.38	123.39	117.70
38	4	41	A	C4-C5-N7	-11.38	105.01	110.70
36	1	278	U	C5-C4-O4	11.38	132.73	125.90
36	1	329	U	N1-C2-N3	11.38	121.73	114.90
36	1	752	C	N3-C4-N4	-11.38	110.03	118.00
36	1	2679	A	C8-N9-C4	11.38	110.35	105.80
36	1	3188	G	C5-N7-C8	-11.38	98.61	104.30
85	5	1162	U	N3-C4-O4	11.38	127.36	119.40
85	5	2795	U	C5-C4-O4	-11.38	119.07	125.90
1	2	1727	A	N1-C2-N3	11.38	134.99	129.30
36	1	646	A	C6-N1-C2	-11.38	111.78	118.60
36	1	1079	A	N1-C2-N3	11.38	134.99	129.30
80	6	306	U	C5-C6-N1	-11.38	117.01	122.70
85	5	772	U	N3-C2-O2	11.38	130.16	122.20
36	1	1666	G	C8-N9-C4	-11.37	101.85	106.40
36	1	1933	A	N7-C8-N9	11.37	119.49	113.80
36	1	2174	G	C2-N3-C4	-11.37	106.21	111.90
36	1	2200	U	N1-C2-O2	-11.37	114.84	122.80
85	5	774	G	N1-C2-N3	11.38	130.72	123.90
85	5	1442	U	O5'-P-OP1	-11.37	95.46	105.70
36	1	2169	G	N3-C4-C5	-11.37	122.91	128.60
36	1	3079	U	N1-C2-O2	-11.37	114.84	122.80
80	6	1675	C	N3-C4-C5	-11.37	117.35	121.90
85	5	1304	A	O5'-P-OP2	-11.37	95.46	105.70
36	1	1457	U	N1-C2-O2	-11.37	114.84	122.80
80	6	1529	C	C6-N1-C2	-11.37	115.75	120.30
85	5	914	A	C2-N3-C4	-11.37	104.92	110.60
85	5	1324	U	O5'-P-OP2	-11.37	95.47	105.70
85	5	3120	C	N1-C2-O2	11.37	125.72	118.90
36	1	386	A	N1-C6-N6	11.37	125.42	118.60
36	1	1413	G	N7-C8-N9	11.37	118.78	113.10
36	1	2233	A	O5'-P-OP1	-11.37	95.47	105.70
36	1	1603	A	N9-C4-C5	11.37	110.35	105.80
36	1	3091	A	N1-C2-N3	11.37	134.98	129.30
80	6	387	A	N1-C6-N6	-11.37	111.78	118.60
85	5	2716	U	N1-C2-N3	11.37	121.72	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	397	A	N1-C6-N6	-11.36	111.78	118.60
36	1	115	A	N1-C6-N6	-11.36	111.78	118.60
80	6	1677	C	N1-C2-O2	11.36	125.72	118.90
85	5	3029	A	C5-C6-N6	11.36	132.79	123.70
36	1	1585	C	N1-C2-O2	-11.36	112.08	118.90
38	4	131	A	C5-C6-N6	-11.36	114.61	123.70
85	5	1440	G	N3-C2-N2	-11.36	111.95	119.90
85	5	1862	U	C4-C5-C6	11.36	126.52	119.70
85	5	2851	A	N7-C8-N9	11.36	119.48	113.80
85	5	3128	G	N7-C8-N9	11.36	118.78	113.10
36	1	702	C	O5'-P-OP1	11.36	124.33	110.70
36	1	2760	C	N3-C2-O2	11.36	129.85	121.90
85	5	2375	G	O5'-P-OP1	-11.36	95.48	105.70
68	o2	33	ARG	NE-CZ-NH2	-11.36	114.62	120.30
36	1	711	A	C6-N1-C2	-11.35	111.79	118.60
85	5	1454	A	N1-C6-N6	11.35	125.41	118.60
85	5	1476	G	N1-C2-N3	11.35	130.71	123.90
85	5	1729	A	C5-N7-C8	-11.35	98.22	103.90
36	1	2647	A	C4-C5-N7	11.35	116.38	110.70
85	5	2234	G	C8-N9-C4	11.35	110.94	106.40
85	5	2385	G	N3-C4-C5	11.35	134.28	128.60
37	7	60	G	C8-N9-C4	-11.35	101.86	106.40
85	5	1769	G	C5-C6-O6	-11.35	121.79	128.60
36	1	2180	G	C6-C5-N7	-11.35	123.59	130.40
36	1	2323	G	C6-N1-C2	-11.35	118.29	125.10
38	4	140	G	C5-C6-N1	-11.35	105.83	111.50
85	5	427	C	O5'-P-OP2	-11.35	95.49	105.70
85	5	1307	G	C5-C6-O6	-11.35	121.79	128.60
91	P	75	C	N3-C4-N4	11.35	125.94	118.00
38	4	121	U	N1-C2-N3	11.35	121.71	114.90
80	6	569	C	C4-C5-C6	11.35	123.07	117.40
85	5	965	A	C5-C6-N1	11.35	123.37	117.70
85	5	1045	C	C5-C6-N1	11.35	126.67	121.00
85	5	2995	A	N1-C6-N6	-11.35	111.79	118.60
85	5	3177	G	N3-C2-N2	-11.35	111.96	119.90
36	1	621	A	N7-C8-N9	11.34	119.47	113.80
36	1	2689	A	C5-C6-N6	11.34	132.77	123.70
85	5	3312	U	O5'-P-OP1	11.34	124.31	110.70
36	1	1375	G	C8-N9-C4	-11.34	101.86	106.40
1	2	1023	G	C8-N9-C4	-11.34	101.86	106.40
36	1	3052	G	C2-N3-C4	-11.34	106.23	111.90
85	5	359	U	N3-C4-O4	11.34	127.34	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	673	U	N1-C2-O2	-11.34	114.86	122.80
85	5	2864	A	C4-C5-N7	11.34	116.37	110.70
36	1	936	A	C5-C6-N6	11.34	132.77	123.70
36	1	3310	A	N1-C6-N6	11.34	125.40	118.60
80	6	1353	U	N3-C4-C5	11.34	121.40	114.60
85	5	1879	A	C6-C5-N7	-11.34	124.36	132.30
37	7	116	C	N1-C2-O2	-11.34	112.10	118.90
36	1	2617	U	C6-N1-C2	-11.34	114.20	121.00
85	5	994	G	C5-C6-N1	11.34	117.17	111.50
85	5	1848	G	N9-C4-C5	-11.34	100.87	105.40
85	5	2353	G	C4-C5-N7	11.34	115.33	110.80
85	5	2729	U	N3-C2-O2	11.34	130.13	122.20
85	5	3215	A	N7-C8-N9	11.34	119.47	113.80
38	8	16	G	OP1-P-OP2	-11.34	102.60	119.60
36	1	857	G	C4-C5-C6	11.33	125.60	118.80
36	1	2125	A	N1-C6-N6	11.33	125.40	118.60
36	1	497	C	C2-N3-C4	-11.33	114.23	119.90
80	6	1672	G	N3-C4-N9	-11.33	119.20	126.00
85	5	76	G	N1-C6-O6	11.33	126.70	119.90
85	5	1122	U	N1-C2-O2	-11.33	114.87	122.80
85	5	1433	A	C2-N3-C4	11.33	116.27	110.60
85	5	2179	C	N3-C4-C5	-11.33	117.37	121.90
38	8	80	A	C8-N9-C4	-11.33	101.27	105.80
36	1	584	G	N1-C2-N3	11.33	130.70	123.90
36	1	2879	C	N3-C2-O2	11.33	129.83	121.90
85	5	45	A	C5-N7-C8	-11.33	98.23	103.90
85	5	844	G	N1-C2-N3	11.33	130.70	123.90
36	1	93	C	O5'-P-OP2	-11.33	95.50	105.70
85	5	656	A	C5-N7-C8	-11.33	98.24	103.90
85	5	1404	G	N1-C2-N3	11.33	130.70	123.90
85	5	1773	C	C6-N1-C2	-11.33	115.77	120.30
85	5	2190	U	N1-C2-O2	-11.33	114.87	122.80
85	5	2850	G	C5-C6-N1	-11.33	105.84	111.50
36	1	1158	A	OP1-P-OP2	-11.32	102.61	119.60
85	5	215	G	N1-C2-N3	11.32	130.69	123.90
85	5	327	A	C2-N3-C4	11.32	116.26	110.60
85	5	1093	A	C8-N9-C4	11.32	110.33	105.80
85	5	1619	A	C2-N3-C4	-11.32	104.94	110.60
85	5	2414	G	N9-C4-C5	-11.32	100.87	105.40
85	5	3292	A	N1-C6-N6	11.32	125.39	118.60
85	5	1418	A	N1-C2-N3	11.32	134.96	129.30
36	1	3011	A	N7-C8-N9	-11.32	108.14	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	918	C	N3-C4-N4	11.32	125.92	118.00
85	5	1934	G	C2-N3-C4	-11.32	106.24	111.90
85	5	1401	A	C6-N1-C2	-11.32	111.81	118.60
36	1	993	G	O5'-P-OP2	-11.32	95.52	105.70
36	1	3309	G	N1-C2-N3	11.32	130.69	123.90
36	1	1351	U	N3-C4-O4	11.32	127.32	119.40
80	6	1661	U	O5'-P-OP2	-11.32	95.52	105.70
85	5	228	U	C5-C4-O4	-11.32	119.11	125.90
85	5	958	C	N3-C2-O2	-11.32	113.98	121.90
1	2	389	G	N1-C6-O6	-11.31	113.11	119.90
36	1	89	A	O5'-P-OP1	11.31	124.28	110.70
85	5	3003	G	C2-N3-C4	-11.31	106.24	111.90
85	5	2721	A	N7-C8-N9	11.31	119.46	113.80
85	5	3140	G	C8-N9-C4	-11.31	101.88	106.40
38	8	111	A	N7-C8-N9	11.31	119.46	113.80
37	3	94	C	N3-C4-N4	11.31	125.92	118.00
36	1	2752	U	C2-N3-C4	-11.31	120.21	127.00
85	5	723	U	C6-N1-C2	11.31	127.79	121.00
85	5	1609	C	N3-C2-O2	11.31	129.82	121.90
36	1	18	G	C6-C5-N7	-11.31	123.61	130.40
36	1	435	C	N3-C2-O2	11.31	129.82	121.90
80	6	957	G	C5-C6-N1	-11.31	105.85	111.50
80	6	1264	G	C4-C5-C6	-11.31	112.02	118.80
85	5	1063	G	C8-N9-C4	-11.31	101.88	106.40
36	1	1949	G	C5-C6-O6	-11.31	121.82	128.60
38	4	128	U	C6-N1-C2	11.31	127.78	121.00
85	5	1879	A	N1-C6-N6	11.30	125.38	118.60
85	5	3045	G	O5'-P-OP2	-11.31	95.52	105.70
36	1	1323	G	N1-C6-O6	-11.30	113.12	119.90
85	5	1662	G	N3-C4-N9	-11.30	119.22	126.00
1	2	1110	G	C4-C5-N7	-11.30	106.28	110.80
36	1	104	G	C4-C5-N7	11.30	115.32	110.80
36	1	1101	G	N3-C2-N2	-11.30	111.99	119.90
85	5	1173	U	O5'-P-OP2	-11.30	95.53	105.70
85	5	2753	G	N7-C8-N9	11.30	118.75	113.10
85	5	2841	G	N9-C4-C5	-11.30	100.88	105.40
85	5	3223	A	C2-N3-C4	11.30	116.25	110.60
85	5	2355	G	C5-C6-N1	-11.30	105.85	111.50
85	5	2960	C	C2-N3-C4	-11.30	114.25	119.90
36	1	2185	G	N3-C2-N2	-11.30	111.99	119.90
36	1	2968	G	C2-N3-C4	-11.30	106.25	111.90
1	2	67	A	N7-C8-N9	-11.29	108.15	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	198	A	C8-N9-C4	-11.29	101.28	105.80
36	1	374	A	O5'-P-OP2	-11.29	95.54	105.70
36	1	1364	C	C2-N3-C4	-11.29	114.25	119.90
36	1	2282	U	N3-C2-O2	-11.29	114.29	122.20
85	5	1892	G	C5-C6-O6	-11.29	121.82	128.60
91	p	75	C	N3-C4-N4	11.29	125.91	118.00
36	1	1109	U	N3-C4-O4	11.29	127.31	119.40
85	5	1393	A	N9-C4-C5	11.29	110.32	105.80
38	4	108	C	C4-C5-C6	11.29	123.05	117.40
80	6	1014	G	C5-C6-N1	-11.29	105.86	111.50
80	6	1100	G	C6-N1-C2	-11.29	118.33	125.10
85	5	164	A	N1-C6-N6	11.29	125.37	118.60
85	5	1345	G	C5-C6-O6	11.29	135.37	128.60
85	5	1499	C	N1-C2-O2	-11.29	112.13	118.90
36	1	342	A	C6-N1-C2	-11.29	111.83	118.60
36	1	2610	G	C2-N3-C4	-11.29	106.26	111.90
85	5	810	A	C4-C5-N7	11.29	116.34	110.70
85	5	1088	U	C5-C6-N1	11.29	128.34	122.70
38	8	103	G	C5-C6-O6	-11.29	121.83	128.60
36	1	859	G	C5-C6-N1	-11.29	105.86	111.50
36	1	886	C	C4-C5-C6	-11.29	111.76	117.40
36	1	1415	U	C4-C5-C6	11.29	126.47	119.70
38	8	77	A	C8-N9-C4	11.29	110.31	105.80
36	1	2980	U	N3-C4-O4	11.28	127.30	119.40
37	3	23	A	N7-C8-N9	11.28	119.44	113.80
85	5	1390	A	C5-C6-N6	11.29	132.73	123.70
85	5	2891	U	N1-C2-O2	11.28	130.70	122.80
85	5	2973	G	C8-N9-C4	-11.29	101.89	106.40
36	1	2244	A	O5'-P-OP2	-11.28	95.55	105.70
80	6	1645	G	N3-C2-N2	-11.28	112.00	119.90
85	5	1474	A	N1-C6-N6	11.28	125.37	118.60
85	5	1929	G	N1-C2-N2	-11.28	106.05	116.20
36	1	785	G	O5'-P-OP1	-11.28	95.55	105.70
36	1	973	A	C5-C6-N6	11.28	132.72	123.70
38	4	65	A	N1-C2-N3	11.28	134.94	129.30
36	1	2182	A	C6-N1-C2	-11.28	111.83	118.60
85	5	1246	G	N1-C6-O6	11.28	126.67	119.90
85	5	2680	A	C6-N1-C2	-11.28	111.83	118.60
85	5	2864	A	O5'-P-OP2	-11.28	95.55	105.70
85	5	3003	G	N1-C2-N3	11.28	130.67	123.90
36	1	242	C	C2-N3-C4	11.28	125.54	119.90
36	1	2202	C	C5-C6-N1	11.28	126.64	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	3	80	G	N7-C8-N9	-11.28	107.46	113.10
85	5	420	G	N7-C8-N9	-11.28	107.46	113.10
85	5	3299	A	N9-C4-C5	11.28	110.31	105.80
36	1	2670	G	C5-C6-O6	-11.27	121.84	128.60
85	5	1184	A	N1-C2-N3	11.27	134.94	129.30
85	5	2871	G	OP1-P-OP 2	-11.27	102.69	119.60
36	1	2670	G	C2-N3-C4	-11.27	106.27	111.90
85	5	1391	C	C5-C4-N4	-11.27	112.31	120.20
85	5	2385	G	C5-C6-O6	11.27	135.36	128.60
1	2	1715	A	N9-C4-C5	11.27	110.31	105.80
36	1	747	A	C2-N3-C4	-11.27	104.97	110.60
36	1	3102	G	C5-C6-O6	11.27	135.36	128.60
85	5	1094	U	N1-C2-N3	-11.27	108.14	114.90
85	5	880	G	N3-C2-N2	-11.27	112.01	119.90
36	1	1324	U	C5-C6-N1	-11.27	117.07	122.70
85	5	3120	C	C5-C6-N1	11.27	126.63	121.00
1	2	857	C	C5-C6-N1	11.26	126.63	121.00
85	5	919	U	C2-N3-C4	-11.26	120.24	127.00
85	5	1865	A	N1-C2-N3	11.26	134.93	129.30
85	5	2752	U	N3-C2-O2	-11.26	114.32	122.20
1	2	57	G	N1-C6-O6	11.26	126.66	119.90
80	6	526	A	C8-N9-C4	-11.26	101.30	105.80
80	6	1742	U	N3-C4-O4	11.26	127.28	119.40
85	5	1443	G	N1-C6-O6	11.26	126.66	119.90
85	5	2790	A	N1-C6-N6	11.26	125.36	118.60
38	8	33	A	C5-C6-N6	-11.26	114.69	123.70
36	1	325	A	OP1-P-OP 2	-11.26	102.71	119.60
36	1	1611	G	C5-C6-N1	-11.26	105.87	111.50
36	1	2893	C	N3-C2-O2	-11.26	114.02	121.90
85	5	1323	G	C8-N9-C4	-11.26	101.90	106.40
85	5	3128	G	C5-N7-C8	-11.26	98.67	104.30
36	1	510	G	C2-N3-C4	-11.25	106.27	111.90
36	1	1512	U	N3-C4-C5	-11.25	107.85	114.60
36	1	2323	G	N3-C4-C5	-11.25	122.97	128.60
36	1	3327	G	C5-C6-N1	-11.25	105.87	111.50
85	5	286	U	N3-C2-O2	-11.25	114.32	122.20
85	5	397	A	N7-C8-N9	-11.25	108.17	113.80
85	5	1103	A	C2-N3-C4	11.25	116.23	110.60
85	5	2164	A	N1-C2-N3	11.25	134.93	129.30
85	5	3015	G	C6-N1-C2	-11.25	118.35	125.10
36	1	944	C	N3-C2-O2	11.25	129.78	121.90
85	5	928	C	N3-C4-C5	-11.25	117.40	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2757	U	C6-N1-C2	-11.25	114.25	121.00
80	6	643	G	N1-C6-O6	11.25	126.65	119.90
80	6	1095	U	N3-C4-C5	-11.25	107.85	114.60
85	5	644	G	C8-N9-C4	-11.25	101.90	106.40
85	5	982	C	N3-C4-C5	11.25	126.40	121.90
85	5	1381	A	C2-N3-C4	-11.25	104.97	110.60
85	5	1416	C	C5-C4-N4	-11.25	112.33	120.20
36	1	1178	G	N1-C2-N3	11.25	130.65	123.90
80	6	1068	C	C6-N1-C2	11.25	124.80	120.30
85	5	1130	A	C5-C6-N1	11.25	123.32	117.70
85	5	2764	C	C4-C5-C6	-11.25	111.78	117.40
1	2	256	A	N1-C6-N6	-11.24	111.85	118.60
36	1	552	G	C8-N9-C4	-11.24	101.90	106.40
36	1	858	A	N9-C4-C5	11.24	110.30	105.80
36	1	1115	G	C6-C5-N7	-11.24	123.65	130.40
80	6	32	U	N1-C2-N3	11.24	121.65	114.90
85	5	929	A	O5'-P-OP2	-11.24	95.58	105.70
85	5	2409	G	C5-C6-N1	11.24	117.12	111.50
85	5	2425	G	C4-C5-N7	11.24	115.30	110.80
36	1	1753	G	N1-C6-O6	11.24	126.64	119.90
85	5	1909	A	N7-C8-N9	11.24	119.42	113.80
38	8	63	G	C2-N3-C4	-11.24	106.28	111.90
36	1	389	A	N1-C6-N6	-11.24	111.86	118.60
85	5	569	A	C8-N9-C4	11.24	110.30	105.80
85	5	2854	U	N3-C4-O4	11.24	127.27	119.40
36	1	2739	A	C5-C6-N6	-11.24	114.71	123.70
85	5	2873	U	OP1-P-OP2	-11.24	102.74	119.60
36	1	515	C	N3-C4-N4	11.24	125.86	118.00
85	5	1055	A	O5'-P-OP2	-11.24	95.59	105.70
85	5	1281	G	C4-C5-C6	-11.24	112.06	118.80
1	2	1653	G	C2-N3-C4	-11.23	106.28	111.90
85	5	2895	G	N1-C2-N3	11.23	130.64	123.90
36	1	73	C	N1-C2-O2	-11.23	112.16	118.90
36	1	604	G	O5'-P-OP1	-11.23	95.59	105.70
36	1	2759	U	N3-C4-O4	11.23	127.26	119.40
85	5	870	G	N3-C4-C5	11.23	134.22	128.60
85	5	1348	U	C5-C6-N1	11.23	128.32	122.70
36	1	1209	G	N3-C2-N2	-11.23	112.04	119.90
85	5	2408	U	N1-C2-N3	11.23	121.64	114.90
85	5	2637	A	N9-C4-C5	11.23	110.29	105.80
36	1	1222	G	C4-C5-N7	-11.23	106.31	110.80
85	5	386	A	C5-C6-N6	11.23	132.68	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	805	G	C6-N1-C2	-11.23	118.36	125.10
85	5	3072	C	C6-N1-C2	-11.23	115.81	120.30
36	1	120	G	C5-C6-O6	11.22	135.34	128.60
36	1	3046	A	C2-N3-C4	-11.22	104.99	110.60
36	1	2145	A	O5'-P-OP2	-11.22	95.60	105.70
85	5	1835	A	C2-N3-C4	-11.22	104.99	110.60
85	5	2927	C	C2-N3-C4	11.22	125.51	119.90
1	2	613	G	C5-C6-N1	11.22	117.11	111.50
36	1	230	U	N1-C2-O2	-11.22	114.95	122.80
36	1	2169	G	C4-C5-N7	-11.22	106.31	110.80
85	5	3022	G	C8-N9-C4	-11.22	101.91	106.40
36	1	1370	G	N1-C2-N3	11.22	130.63	123.90
36	1	1679	A	O5'-P-OP1	-11.21	95.61	105.70
36	1	3301	U	C5-C4-O4	11.22	132.63	125.90
36	1	2862	U	C5-C6-N1	-11.21	117.09	122.70
85	5	2915	U	C5-C4-O4	-11.21	119.17	125.90
36	1	197	G	C5-C6-N1	11.21	117.11	111.50
36	1	1134	G	N9-C4-C5	11.21	109.89	105.40
36	1	1401	A	C2-N3-C4	-11.21	104.99	110.60
37	7	10	C	C4-C5-C6	11.21	123.01	117.40
36	1	1308	A	C5-N7-C8	-11.21	98.30	103.90
36	1	2715	A	C2-N3-C4	11.21	116.20	110.60
36	1	1659	U	C6-N1-C2	-11.21	114.28	121.00
85	5	1317	A	C4-C5-N7	11.21	116.31	110.70
38	4	58	G	N1-C2-N2	-11.21	106.11	116.20
85	5	94	G	C8-N9-C4	11.21	110.88	106.40
85	5	216	G	N9-C4-C5	-11.21	100.92	105.40
85	5	2303	A	C2-N3-C4	-11.21	105.00	110.60
85	5	2976	A	N1-C2-N3	11.21	134.90	129.30
36	1	711	A	C5-N7-C8	11.21	109.50	103.90
38	4	36	G	O5'-P-OP1	-11.21	95.61	105.70
85	5	2364	G	C8-N9-C4	-11.21	101.92	106.40
38	4	17	A	C8-N9-C4	-11.20	101.32	105.80
80	6	403	G	C4-C5-N7	11.20	115.28	110.80
85	5	2908	G	N7-C8-N9	11.21	118.70	113.10
36	1	30	G	O5'-P-OP1	11.20	124.14	110.70
36	1	2740	A	C5-N7-C8	-11.20	98.30	103.90
38	4	103	G	N3-C4-N9	11.20	132.72	126.00
85	5	3190	C	N3-C2-O2	-11.20	114.06	121.90
85	5	3194	C	N1-C2-O2	11.20	125.62	118.90
36	1	340	C	C4-C5-C6	11.20	123.00	117.40
80	6	630	A	O5'-P-OP2	-11.20	95.62	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	987	U	O5'-P-OP1	11.20	124.14	110.70
36	1	3054	U	C4-C5-C6	11.20	126.42	119.70
38	4	109	A	N7-C8-N9	11.20	119.40	113.80
85	5	866	A	N9-C4-C5	-11.20	101.32	105.80
1	2	93	A	N1-C2-N3	11.20	134.90	129.30
36	1	1710	C	N3-C2-O2	-11.20	114.06	121.90
36	1	2939	G	C4-C5-N7	-11.20	106.32	110.80
37	3	80	G	OP1-P-OP2	-11.20	102.80	119.60
85	5	2116	G	O5'-P-OP2	-11.20	95.62	105.70
38	8	90	U	C5-C4-O4	-11.20	119.18	125.90
36	1	53	G	C4-C5-N7	-11.19	106.32	110.80
1	2	1715	A	C8-N9-C4	-11.19	101.32	105.80
36	1	1147	G	N1-C6-O6	-11.19	113.19	119.90
36	1	2754	G	N1-C6-O6	-11.19	113.19	119.90
85	5	1175	C	C4-C5-C6	-11.19	111.80	117.40
80	6	413	U	C2-N3-C4	-11.19	120.28	127.00
85	5	2669	G	N3-C2-N2	-11.19	112.07	119.90
85	5	2828	G	C5-C6-O6	-11.19	121.89	128.60
36	1	2761	G	O5'-P-OP2	-11.19	95.63	105.70
80	6	381	C	OP2-P-O3'	11.19	129.81	105.20
85	5	1405	U	N1-C2-N3	11.19	121.61	114.90
37	7	43	U	N1-C2-N3	11.19	121.61	114.90
1	2	1083	G	C2-N3-C4	-11.18	106.31	111.90
36	1	2384	A	O5'-P-OP1	-11.18	95.64	105.70
85	5	653	A	N7-C8-N9	11.18	119.39	113.80
85	5	1343	A	O5'-P-OP2	-11.18	95.64	105.70
36	1	33	G	N3-C2-N2	-11.18	112.07	119.90
38	4	147	U	O5'-P-OP1	-11.18	95.64	105.70
36	1	854	G	N1-C2-N3	11.18	130.61	123.90
36	1	960	U	C4-C5-C6	-11.18	112.99	119.70
85	5	1133	A	N1-C2-N3	11.18	134.89	129.30
85	5	2741	C	N3-C2-O2	11.18	129.73	121.90
36	1	2381	G	N7-C8-N9	11.18	118.69	113.10
36	1	2620	G	C5-C6-N1	11.18	117.09	111.50
85	5	930	U	C4-C5-C6	-11.18	112.99	119.70
37	7	91	G	O5'-P-OP1	-11.18	95.64	105.70
38	8	15	G	C8-N9-C4	-11.18	101.93	106.40
38	8	24	G	C6-N1-C2	-11.18	118.39	125.10
1	2	426	G	O5'-P-OP1	-11.18	95.64	105.70
1	2	555	A	C2-N3-C4	11.18	116.19	110.60
1	2	1152	G	C8-N9-C4	-11.18	101.93	106.40
36	1	1288	U	C5-C6-N1	-11.18	117.11	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2861	U	C5-C6-N1	-11.18	117.11	122.70
38	4	28	C	C6-N1-C2	-11.18	115.83	120.30
85	5	651	G	C5-C6-N1	-11.18	105.91	111.50
85	5	786	A	N1-C6-N6	11.18	125.31	118.60
85	5	1168	U	N1-C2-N3	11.18	121.61	114.90
85	5	1809	A	N1-C2-N3	11.18	134.89	129.30
36	1	885	U	N3-C4-C5	11.17	121.30	114.60
37	3	33	U	C5-C6-N1	-11.17	117.11	122.70
80	6	3	U	C5-C6-N1	-11.17	117.11	122.70
85	5	1137	C	C2-N3-C4	-11.17	114.31	119.90
37	7	91	G	N1-C2-N3	11.17	130.60	123.90
36	1	613	G	OP1-P-OP2	-11.17	102.84	119.60
36	1	1175	C	C5-C6-N1	-11.17	115.42	121.00
85	5	760	G	C4-C5-N7	11.17	115.27	110.80
85	5	2195	C	N3-C4-N4	-11.17	110.18	118.00
85	5	2759	U	C2-N3-C4	-11.17	120.30	127.00
1	2	1132	G	C5-C6-N1	11.17	117.08	111.50
36	1	591	G	C5-C6-N1	-11.17	105.92	111.50
36	1	984	G	C4-C5-N7	11.17	115.27	110.80
1	2	411	C	N3-C4-C5	-11.17	117.43	121.90
36	1	2380	U	C5-C4-O4	-11.17	119.20	125.90
80	6	1142	A	O5'-P-OP2	-11.17	95.65	105.70
85	5	1798	A	N1-C6-N6	-11.17	111.90	118.60
85	5	2356	A	C5-N7-C8	-11.17	98.32	103.90
85	5	2848	G	N9-C4-C5	11.17	109.87	105.40
85	5	41	G	C2-N3-C4	-11.16	106.32	111.90
85	5	2376	G	OP1-P-OP2	11.16	136.35	119.60
36	1	63	A	C4-C5-N7	11.16	116.28	110.70
36	1	368	G	C2-N3-C4	-11.16	106.32	111.90
38	4	93	U	N3-C4-C5	-11.16	107.90	114.60
80	6	127	G	C5-C6-N1	-11.16	105.92	111.50
85	5	2135	U	OP1-P-O3'	11.16	129.76	105.20
36	1	2778	G	C4-C5-N7	11.16	115.27	110.80
37	3	43	U	C5-C6-N1	-11.16	117.12	122.70
85	5	914	A	O5'-P-OP1	-11.16	95.66	105.70
36	1	1603	A	C6-N1-C2	-11.16	111.91	118.60
85	5	1181	U	O5'-P-OP1	-11.16	95.66	105.70
85	5	3033	A	OP1-P-OP2	-11.16	102.86	119.60
85	5	3345	G	N1-C6-O6	11.16	126.59	119.90
36	1	342	A	C5-C6-N1	11.16	123.28	117.70
36	1	2295	A	N7-C8-N9	11.16	119.38	113.80
80	6	1020	A	N1-C6-N6	-11.16	111.91	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3204	C	C2-N3-C4	-11.16	114.32	119.90
36	1	751	A	N1-C6-N6	11.15	125.29	118.60
36	1	903	U	N1-C2-N3	11.15	121.59	114.90
85	5	2636	A	N1-C6-N6	-11.15	111.91	118.60
85	5	3051	U	O5'-P-OP2	-11.15	95.66	105.70
37	7	82	G	C8-N9-C4	-11.15	101.94	106.40
36	1	2379	U	N3-C4-O4	11.15	127.21	119.40
85	5	2928	C	N3-C4-C5	-11.15	117.44	121.90
36	1	2161	G	C5-C6-N1	11.15	117.08	111.50
80	6	280	U	C5-C4-O4	-11.15	119.21	125.90
85	5	400	G	O5'-P-OP2	11.15	124.08	110.70
38	8	52	A	O5'-P-OP1	-11.15	95.67	105.70
36	1	1146	C	C5-C6-N1	11.15	126.57	121.00
36	1	2986	U	N1-C2-N3	11.15	121.59	114.90
85	5	555	U	N1-C2-O2	-11.15	115.00	122.80
85	5	2374	C	C4-C5-C6	11.15	122.97	117.40
36	1	1799	A	N1-C6-N6	-11.15	111.91	118.60
38	4	20	U	O5'-P-OP2	-11.15	95.67	105.70
38	4	147	U	C6-N1-C2	-11.15	114.31	121.00
85	5	366	A	C5-C6-N1	-11.15	112.13	117.70
85	5	2935	U	N3-C4-O4	11.15	127.20	119.40
80	6	323	A	N7-C8-N9	11.14	119.37	113.80
85	5	2877	G	C4-C5-C6	-11.14	112.11	118.80
1	2	354	C	C4-C5-C6	11.14	122.97	117.40
36	1	586	C	C6-N1-C2	11.14	124.76	120.30
36	1	1785	U	C5-C6-N1	-11.14	117.13	122.70
85	5	588	G	C5-C6-N1	11.14	117.07	111.50
85	5	1153	A	C6-N1-C2	-11.14	111.91	118.60
85	5	1484	U	N3-C4-C5	-11.14	107.91	114.60
85	5	2317	A	C5-C6-N1	11.14	123.27	117.70
85	5	2640	A	C5-C6-N6	-11.14	114.78	123.70
36	1	3229	G	C4-C5-N7	11.14	115.26	110.80
38	4	110	C	C5-C6-N1	-11.14	115.43	121.00
80	6	143	G	C4-C5-N7	11.14	115.26	110.80
80	6	327	U	C5-C6-N1	11.14	128.27	122.70
80	6	758	U	N3-C2-O2	-11.14	114.40	122.20
85	5	382	U	C4-C5-C6	11.14	126.38	119.70
85	5	1662	G	N1-C2-N3	11.14	130.59	123.90
36	1	2689	A	N1-C6-N6	-11.14	111.92	118.60
85	5	1850	A	C8-N9-C4	-11.14	101.34	105.80
36	1	2647	A	N7-C8-N9	11.14	119.37	113.80
85	5	561	C	N3-C2-O2	-11.14	114.10	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3382	U	O5'-P-OP2	-11.14	95.67	105.70
85	5	1208	U	C5-C4-O4	11.14	132.58	125.90
36	1	148	G	C4-C5-N7	-11.13	106.35	110.80
36	1	641	C	N1-C2-N3	11.14	127.00	119.20
85	5	30	G	C2-N3-C4	-11.14	106.33	111.90
85	5	46	U	C5-C4-O4	-11.14	119.22	125.90
85	5	2607	G	C5-C6-N1	-11.14	105.93	111.50
36	1	369	A	C8-N9-C4	-11.13	101.35	105.80
36	1	497	C	C6-N1-C2	11.13	124.75	120.30
36	1	3133	C	C4-C5-C6	11.13	122.97	117.40
36	1	2623	G	C5-N7-C8	-11.13	98.73	104.30
36	1	3380	U	C5-C6-N1	11.13	128.27	122.70
85	5	2661	G	N1-C6-O6	-11.13	113.22	119.90
36	1	3085	G	N7-C8-N9	11.13	118.67	113.10
80	6	1119	G	N7-C8-N9	11.13	118.67	113.10
85	5	1370	G	N1-C2-N3	11.13	130.58	123.90
85	5	1443	G	C6-C5-N7	-11.13	123.72	130.40
1	2	93	A	C4-C5-N7	-11.13	105.14	110.70
80	6	1051	G	C8-N9-C1'	11.13	141.46	127.00
85	5	311	C	C2-N3-C4	-11.13	114.34	119.90
85	5	1012	G	C5-C6-N1	-11.13	105.94	111.50
85	5	2656	A	N7-C8-N9	11.13	119.36	113.80
85	5	2661	G	OP1-P-O3'	11.13	129.68	105.20
85	5	2804	A	C6-N1-C2	-11.13	111.92	118.60
85	5	3086	A	C4-C5-C6	11.12	122.56	117.00
1	2	137	U	N3-C2-O2	-11.12	114.41	122.20
36	1	56	G	C5-C6-N1	11.12	117.06	111.50
85	5	393	U	N3-C4-C5	-11.12	107.93	114.60
36	1	2830	G	N1-C6-O6	11.12	126.57	119.90
85	5	587	U	N3-C2-O2	11.12	129.99	122.20
85	5	2272	G	C5-C6-N1	11.12	117.06	111.50
38	8	75	G	C8-N9-C4	-11.12	101.95	106.40
85	5	879	U	C5-C6-N1	-11.12	117.14	122.70
1	2	1703	G	C8-N9-C4	11.12	110.85	106.40
36	1	680	G	C8-N9-C4	11.12	110.85	106.40
36	1	2375	G	N3-C4-C5	-11.12	123.04	128.60
80	6	603	U	OP1-P-O3'	11.12	129.66	105.20
85	5	2664	C	C5-C6-N1	11.12	126.56	121.00
85	5	3104	U	N1-C2-O2	-11.12	115.02	122.80
37	7	13	A	C5-C6-N1	11.12	123.26	117.70
36	1	3008	A	N7-C8-N9	11.12	119.36	113.80
85	5	1322	U	N1-C2-N3	11.12	121.57	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2344	U	OP1-P-OP2	-11.12	102.92	119.60
36	1	54	C	O5'-P-OP2	-11.12	95.70	105.70
36	1	2612	U	O5'-P-OP1	-11.12	95.70	105.70
36	1	712	G	N1-C6-O6	11.11	126.57	119.90
37	3	15	C	C6-N1-C2	11.11	124.75	120.30
85	5	1296	C	N3-C2-O2	-11.11	114.12	121.90
36	1	3210	A	OP1-P-OP2	-11.11	102.93	119.60
85	5	542	G	N9-C4-C5	-11.11	100.95	105.40
85	5	1919	G	C6-C5-N7	-11.11	123.73	130.40
85	5	3110	C	C6-N1-C2	11.11	124.74	120.30
36	1	1920	U	C4-C5-C6	11.11	126.36	119.70
36	1	2333	C	C2-N3-C4	-11.11	114.35	119.90
36	1	3208	G	N1-C6-O6	-11.11	113.23	119.90
85	5	420	G	C8-N9-C4	11.11	110.84	106.40
85	5	803	C	C5-C6-N1	11.11	126.55	121.00
37	7	85	G	N9-C4-C5	-11.11	100.96	105.40
36	1	1918	C	C6-N1-C2	-11.10	115.86	120.30
36	1	859	G	C4-C5-C6	11.10	125.46	118.80
36	1	1603	A	C5-C6-N1	11.10	123.25	117.70
36	1	2419	A	C5-C6-N6	11.10	132.58	123.70
85	5	179	C	N1-C2-O2	11.10	125.56	118.90
85	5	309	U	N3-C4-O4	11.10	127.17	119.40
85	5	2413	A	N1-C6-N6	11.10	125.26	118.60
85	5	2610	G	C4-C5-C6	11.10	125.46	118.80
36	1	504	A	N1-C2-N3	11.10	134.85	129.30
36	1	879	U	C4-C5-C6	-11.10	113.04	119.70
36	1	1589	A	N1-C2-N3	11.10	134.85	129.30
36	1	1673	G	C5-C6-N1	-11.10	105.95	111.50
36	1	3085	G	N1-C2-N3	11.10	130.56	123.90
85	5	1656	A	OP1-P-OP2	11.10	136.25	119.60
85	5	639	G	N3-C2-N2	-11.10	112.13	119.90
85	5	2282	U	N1-C2-N3	11.10	121.56	114.90
1	2	1016	C	N3-C4-C5	11.10	126.34	121.90
36	1	2385	G	N3-C2-N2	-11.10	112.13	119.90
85	5	73	C	C2-N3-C4	-11.10	114.35	119.90
85	5	3330	A	C8-N9-C4	-11.10	101.36	105.80
36	1	2315	G	C6-N1-C2	-11.09	118.44	125.10
85	5	937	G	N7-C8-N9	-11.09	107.55	113.10
38	8	4	C	N3-C2-O2	-11.09	114.14	121.90
1	2	1083	G	C5-C6-N1	-11.09	105.95	111.50
36	1	3283	U	N3-C2-O2	11.09	129.96	122.20
38	8	103	G	C6-C5-N7	-11.09	123.75	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	596	C	N1-C2-N3	11.09	126.96	119.20
36	1	933	A	N7-C8-N9	11.09	119.34	113.80
36	1	1431	G	N1-C6-O6	-11.09	113.25	119.90
36	1	1652	G	OP1-P-OP2	11.09	136.23	119.60
85	5	3181	C	N1-C2-O2	-11.09	112.25	118.90
1	2	109	G	C5-C6-N1	-11.09	105.96	111.50
36	1	2341	A	N1-C6-N6	-11.09	111.95	118.60
36	1	2418	G	C2-N3-C4	11.09	117.44	111.90
36	1	2847	A	C5-C6-N6	-11.09	114.83	123.70
85	5	2986	U	C4-C5-C6	11.09	126.35	119.70
80	6	1771	U	N1-C2-O2	-11.09	115.04	122.80
85	5	60	A	N9-C4-C5	11.09	110.23	105.80
85	5	1882	G	C4-C5-N7	11.09	115.23	110.80
85	5	3124	G	C5-C6-N1	-11.09	105.96	111.50
36	1	395	A	C8-N9-C4	-11.08	101.37	105.80
36	1	942	U	N3-C2-O2	-11.08	114.44	122.20
36	1	914	A	C5-C6-N6	11.08	132.57	123.70
36	1	1134	G	C8-N9-C4	-11.08	101.97	106.40
36	1	2627	C	C6-N1-C2	11.08	124.73	120.30
36	1	2969	A	C2-N3-C4	-11.08	105.06	110.60
85	5	2811	A	O5'-P-OP1	-11.08	95.72	105.70
80	6	1742	U	N3-C2-O2	11.08	129.96	122.20
85	5	348	A	N1-C2-N3	11.08	134.84	129.30
80	6	469	C	C2-N3-C4	11.08	125.44	119.90
36	1	1877	U	C5-C4-O4	11.08	132.55	125.90
36	1	2693	C	C5-C6-N1	-11.08	115.46	121.00
36	1	1361	U	N3-C4-O4	11.08	127.15	119.40
36	1	2980	U	OP1-P-O3'	11.08	129.57	105.20
80	6	1592	A	N7-C8-N9	11.08	119.34	113.80
85	5	802	C	N3-C2-O2	11.08	129.65	121.90
36	1	397	A	C6-N1-C2	-11.07	111.96	118.60
36	1	1594	A	N1-C6-N6	-11.07	111.96	118.60
36	1	1680	G	C8-N9-C4	11.07	110.83	106.40
36	1	1690	C	C6-N1-C2	11.07	124.73	120.30
80	6	50	C	N1-C2-O2	-11.07	112.26	118.90
85	5	3047	U	N1-C2-N3	11.07	121.55	114.90
80	6	163	G	N3-C4-C5	11.07	134.14	128.60
36	1	76	G	N1-C6-O6	-11.07	113.26	119.90
36	1	2944	U	C6-N1-C2	-11.07	114.36	121.00
80	6	871	G	C6-C5-N7	-11.07	123.76	130.40
85	5	398	A	O5'-P-OP2	-11.07	95.74	105.70
85	5	2432	A	N9-C4-C5	11.07	110.23	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2888	U	N1-C2-N3	11.07	121.54	114.90
36	1	916	G	N1-C6-O6	-11.07	113.26	119.90
85	5	21	G	C8-N9-C4	11.07	110.83	106.40
85	5	971	G	O5'-P-OP2	-11.07	95.74	105.70
85	5	119	U	C5-C6-N1	-11.07	117.17	122.70
85	5	2623	G	N7-C8-N9	-11.07	107.57	113.10
36	1	347	G	C6-C5-N7	-11.06	123.76	130.40
36	1	1470	U	C4-C5-C6	11.06	126.34	119.70
1	2	16	G	C5-C6-N1	11.06	117.03	111.50
38	4	29	U	N1-C2-O2	11.06	130.54	122.80
36	1	858	A	C8-N9-C4	-11.06	101.38	105.80
85	5	2968	G	N1-C2-N3	11.06	130.54	123.90
85	5	2986	U	N1-C2-N3	11.06	121.54	114.90
80	6	544	A	C8-N9-C4	11.06	110.22	105.80
80	6	1027	A	N3-C4-C5	11.06	134.54	126.80
36	1	653	A	N1-C6-N6	11.06	125.23	118.60
80	6	1652	C	C6-N1-C2	-11.06	115.88	120.30
38	8	24	G	N3-C4-C5	-11.06	123.07	128.60
36	1	511	G	N9-C4-C5	11.05	109.82	105.40
36	1	666	A	N1-C2-N3	11.05	134.83	129.30
80	6	1656	U	N1-C2-N3	-11.06	108.27	114.90
36	1	55	G	N7-C8-N9	-11.05	107.57	113.10
36	1	370	U	N1-C2-N3	11.05	121.53	114.90
36	1	1358	C	N1-C2-O2	-11.05	112.27	118.90
36	1	1585	C	C5-C6-N1	11.05	126.53	121.00
36	1	3286	G	C2-N3-C4	11.05	117.43	111.90
37	3	73	C	OP1-P-OP2	-11.05	103.02	119.60
85	5	729	C	N3-C4-N4	11.05	125.74	118.00
85	5	961	C	O5'-P-OP1	-11.05	95.75	105.70
85	5	2825	C	N3-C4-C5	11.05	126.32	121.90
85	5	2908	G	N3-C4-C5	11.05	134.13	128.60
1	2	1711	A	C5-C6-N1	-11.05	112.17	117.70
36	1	981	U	C5-C6-N1	11.05	128.22	122.70
36	1	1637	A	C8-N9-C4	11.05	110.22	105.80
36	1	1920	U	N1-C2-N3	11.05	121.53	114.90
36	1	3232	G	C8-N9-C4	-11.05	101.98	106.40
80	6	1293	U	N3-C4-C5	11.05	121.23	114.60
85	5	2357	A	O5'-P-OP2	-11.05	95.75	105.70
85	5	2948	C	C5-C4-N4	-11.05	112.47	120.20
37	7	91	G	C6-N1-C2	-11.05	118.47	125.10
1	2	1010	A	N7-C8-N9	11.05	119.32	113.80
36	1	935	U	N3-C4-C5	-11.05	107.97	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1379	G	OP1-P-OP2	-11.05	103.03	119.60
36	1	1514	G	O5'-P-OP2	-11.05	95.76	105.70
36	1	3273	A	C5-C6-N1	11.05	123.22	117.70
37	3	82	G	C8-N9-C4	-11.05	101.98	106.40
85	5	647	A	N9-C4-C5	11.05	110.22	105.80
85	5	1007	U	C5-C6-N1	-11.05	117.18	122.70
85	5	2725	U	C6-N1-C2	-11.05	114.37	121.00
1	2	517	U	C6-N1-C2	-11.05	114.37	121.00
85	5	2110	G	C2-N3-C4	-11.04	106.38	111.90
85	5	3262	U	O5'-P-OP2	-11.04	95.76	105.70
36	1	88	A	N9-C4-C5	11.04	110.22	105.80
36	1	872	U	O5'-P-OP1	11.04	123.95	110.70
38	4	7	U	N3-C4-C5	-11.04	107.98	114.60
80	6	1200	G	C5-C6-O6	-11.04	121.98	128.60
85	5	725	G	C8-N9-C4	11.04	110.82	106.40
36	1	357	A	C2-N3-C4	-11.04	105.08	110.60
36	1	947	G	O5'-P-OP1	-11.04	95.77	105.70
36	1	1452	A	C8-N9-C4	11.04	110.22	105.80
36	1	2244	A	C8-N9-C4	11.04	110.22	105.80
85	5	3133	C	N3-C4-N4	11.04	125.73	118.00
85	5	3224	G	O5'-P-OP1	-11.04	95.77	105.70
38	8	33	A	N1-C6-N6	11.04	125.22	118.60
36	1	621	A	C8-N9-C4	-11.04	101.39	105.80
36	1	880	G	C5-C6-O6	11.04	135.22	128.60
36	1	1318	A	N1-C2-N3	11.04	134.82	129.30
37	3	94	C	N3-C4-C5	-11.04	117.49	121.90
85	5	236	G	N1-C2-N2	11.03	126.13	116.20
85	5	1272	C	C5-C6-N1	11.04	126.52	121.00
85	5	1884	A	C5-C6-N1	-11.03	112.18	117.70
85	5	2302	G	OP1-P-OP2	-11.04	103.05	119.60
1	2	748	G	C2-N3-C4	11.03	117.42	111.90
85	5	2884	C	C2-N3-C4	11.03	125.42	119.90
85	5	3141	A	N7-C8-N9	11.03	119.31	113.80
36	1	3052	G	C5-C6-N1	-11.03	105.99	111.50
85	5	3324	C	N1-C2-O2	-11.03	112.28	118.90
36	1	1643	A	C2-N3-C4	11.03	116.11	110.60
36	1	2621	G	C8-N9-C4	-11.03	101.99	106.40
36	1	899	U	C5-C6-N1	-11.03	117.19	122.70
36	1	1823	A	C4-C5-C6	11.03	122.51	117.00
85	5	650	C	C2-N3-C4	-11.03	114.39	119.90
80	6	109	G	C2-N3-C4	-11.02	106.39	111.90
85	5	1170	A	C4-C5-C6	11.02	122.51	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	439	C	C2-N3-C4	11.02	125.41	119.90
36	1	659	G	N7-C8-N9	11.02	118.61	113.10
36	1	1155	C	N3-C4-C5	11.02	126.31	121.90
36	1	1823	A	N1-C6-N6	11.02	125.21	118.60
36	1	2951	G	N1-C6-O6	-11.02	113.29	119.90
85	5	2420	C	N3-C2-O2	11.02	129.62	121.90
85	5	3245	A	C5-N7-C8	-11.02	98.39	103.90
36	1	907	G	N3-C4-N9	11.02	132.61	126.00
36	1	2640	A	C6-N1-C2	-11.02	111.99	118.60
85	5	568	G	C5-C6-O6	-11.02	121.99	128.60
85	5	1003	A	N1-C6-N6	11.02	125.21	118.60
80	6	1670	G	C6-C5-N7	-11.02	123.79	130.40
85	5	2615	G	C6-C5-N7	-11.02	123.79	130.40
80	6	466	U	N3-C2-O2	-11.02	114.49	122.20
36	1	127	G	O5'-P-OP1	-11.01	95.79	105.70
85	5	2320	A	N1-C2-N3	11.01	134.81	129.30
36	1	2138	A	N1-C6-N6	11.01	125.21	118.60
85	5	363	G	C6-N1-C2	-11.01	118.49	125.10
85	5	921	A	C2-N3-C4	11.01	116.11	110.60
85	5	2831	G	C5-C6-O6	-11.01	121.99	128.60
36	1	1488	G	C5-C6-O6	11.01	135.21	128.60
36	1	2394	G	N1-C6-O6	-11.01	113.29	119.90
85	5	1007	U	N1-C2-O2	-11.01	115.09	122.80
80	6	575	C	C2-N3-C4	-11.01	114.39	119.90
36	1	913	A	C5-C6-N6	-11.01	114.89	123.70
36	1	2991	A	C6-C5-N7	-11.01	124.59	132.30
80	6	554	C	N1-C2-O2	11.01	125.50	118.90
85	5	213	A	N9-C4-C5	11.01	110.20	105.80
85	5	2615	G	N3-C4-C5	11.01	134.10	128.60
85	5	2735	U	C6-N1-C2	-11.01	114.40	121.00
36	1	3311	C	N1-C2-O2	11.00	125.50	118.90
80	6	1723	U	C5-C6-N1	-11.00	117.20	122.70
85	5	188	U	C5-C6-N1	11.00	128.20	122.70
85	5	1655	G	O5'-P-OP2	-11.00	95.80	105.70
36	1	286	U	N1-C2-O2	11.00	130.50	122.80
36	1	894	G	C6-C5-N7	-11.00	123.80	130.40
85	5	584	G	N3-C4-C5	-11.00	123.10	128.60
85	5	2381	G	C5-N7-C8	-11.00	98.80	104.30
80	6	1732	A	C2-N3-C4	-11.00	105.10	110.60
85	5	118	U	O5'-P-OP1	-11.00	95.80	105.70
38	8	95	G	C5-C6-N1	11.00	117.00	111.50
1	2	1440	C	C5-C6-N1	11.00	126.50	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	684	G	N3-C4-C5	11.00	134.10	128.60
36	1	2168	A	N1-C6-N6	-11.00	112.00	118.60
36	1	2610	G	C6-C5-N7	-11.00	123.80	130.40
80	6	1727	G	N1-C6-O6	11.00	126.50	119.90
85	5	773	G	C5-C6-N1	-11.00	106.00	111.50
85	5	2152	A	C5-C6-N1	-11.00	112.20	117.70
36	1	657	A	C4-C5-N7	10.99	116.20	110.70
80	6	619	A	C8-N9-C4	-10.99	101.40	105.80
85	5	375	A	OP1-P-O3'	10.99	129.39	105.20
85	5	722	G	C5-C6-O6	-10.99	122.00	128.60
80	6	1473	U	N3-C4-C5	-10.99	108.00	114.60
80	6	1529	C	N3-C4-C5	-10.99	117.50	121.90
85	5	434	U	N3-C2-O2	10.99	129.90	122.20
85	5	767	U	C5-C4-O4	10.99	132.50	125.90
85	5	1878	G	C8-N9-C4	-10.99	102.00	106.40
38	4	119	C	O5'-P-OP2	-10.99	95.81	105.70
36	1	10	C	C6-N1-C2	10.99	124.70	120.30
36	1	3242	G	C8-N9-C4	10.99	110.80	106.40
80	6	265	A	O5'-P-OP2	-10.99	95.81	105.70
80	6	1498	G	N3-C4-C5	10.99	134.09	128.60
85	5	50	U	N1-C2-O2	-10.99	115.11	122.80
85	5	1514	G	C8-N9-C4	-10.99	102.00	106.40
85	5	1886	A	N1-C2-N3	-10.99	123.81	129.30
36	1	507	U	N3-C4-C5	-10.99	108.01	114.60
36	1	1366	A	C5-N7-C8	-10.99	98.41	103.90
80	6	1656	U	OP1-P-OP2	-10.99	103.12	119.60
85	5	2753	G	C5-N7-C8	-10.99	98.81	104.30
85	5	2951	G	C8-N9-C4	-10.99	102.00	106.40
85	5	3270	U	O5'-P-OP1	-10.99	95.81	105.70
36	1	2298	U	C5-C4-O4	10.99	132.49	125.90
38	8	24	G	N1-C6-O6	-10.99	113.31	119.90
36	1	1202	A	C4-C5-N7	10.98	116.19	110.70
80	6	1382	A	OP1-P-OP2	-10.98	103.12	119.60
85	5	420	G	C4-C5-N7	-10.98	106.41	110.80
85	5	1447	G	C5-C6-N1	10.98	116.99	111.50
36	1	650	C	C5-C6-N1	10.98	126.49	121.00
36	1	982	C	N3-C2-O2	10.98	129.59	121.90
36	1	1799	A	C2-N3-C4	-10.98	105.11	110.60
85	5	216	G	C4-C5-N7	10.98	115.19	110.80
85	5	1203	A	N1-C2-N3	10.98	134.79	129.30
85	5	881	C	N3-C2-O2	-10.98	114.22	121.90
1	2	1135	A	C8-N9-C4	-10.98	101.41	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	140	C	N3-C4-C5	10.98	126.29	121.90
36	1	648	C	O5'-P-OP1	-10.98	95.82	105.70
36	1	1517	G	O5'-P-OP2	-10.98	95.82	105.70
85	5	508	U	O5'-P-OP2	10.98	123.87	110.70
85	5	2215	A	N3-C4-C5	10.98	134.48	126.80
36	1	283	G	N7-C8-N9	10.97	118.59	113.10
36	1	1906	G	C6-C5-N7	-10.97	123.81	130.40
85	5	614	C	N1-C2-O2	10.97	125.48	118.90
36	1	535	G	N3-C2-N2	-10.97	112.22	119.90
36	1	1132	C	C2-N3-C4	-10.97	114.41	119.90
85	5	273	A	C2-N3-C4	-10.97	105.11	110.60
85	5	625	G	N3-C2-N2	-10.97	112.22	119.90
85	5	2819	A	O5'-P-OP2	-10.97	95.82	105.70
36	1	143	G	C6-N1-C2	-10.97	118.52	125.10
36	1	1058	U	C5-C4-O4	-10.97	119.32	125.90
36	1	2732	G	C4-C5-N7	10.97	115.19	110.80
36	1	2945	G	C5-C6-O6	-10.97	122.02	128.60
85	5	810	A	N7-C8-N9	10.97	119.29	113.80
85	5	1004	U	C6-N1-C2	-10.97	114.42	121.00
85	5	2953	U	N1-C2-O2	10.97	130.48	122.80
38	4	96	A	C6-N1-C2	-10.97	112.02	118.60
85	5	104	G	C2-N3-C4	-10.97	106.42	111.90
85	5	1809	A	C2-N3-C4	-10.97	105.11	110.60
36	1	1685	C	N3-C2-O2	-10.97	114.22	121.90
36	1	2338	C	C5-C6-N1	-10.97	115.52	121.00
75	O9	45	ARG	NE-CZ-NH2	-10.97	114.82	120.30
85	5	220	G	O5'-P-OP2	-10.97	95.83	105.70
38	8	33	A	OP1-P-OP2	-10.97	103.15	119.60
85	5	374	A	N9-C4-C5	10.97	110.19	105.80
85	5	2273	G	N3-C4-N9	-10.97	119.42	126.00
36	1	859	G	N1-C6-O6	10.96	126.48	119.90
36	1	1154	A	C2-N3-C4	10.96	116.08	110.60
85	5	963	G	C5-N7-C8	10.96	109.78	104.30
85	5	2744	U	O5'-P-OP1	10.96	123.86	110.70
36	1	903	U	C6-N1-C2	-10.96	114.42	121.00
80	6	126	A	N1-C6-N6	-10.96	112.02	118.60
85	5	645	A	C6-N1-C2	-10.96	112.02	118.60
85	5	1662	G	N9-C4-C5	10.96	109.78	105.40
85	5	3010	U	N1-C2-N3	10.96	121.48	114.90
36	1	1151	U	C5-C6-N1	10.96	128.18	122.70
80	6	1015	U	N1-C2-N3	10.96	121.47	114.90
85	5	1321	G	C5-C6-N1	-10.96	106.02	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1887	A	C5-N7-C8	-10.96	98.42	103.90
80	6	1657	U	N1-C2-N3	-10.96	108.33	114.90
85	5	1869	C	N3-C2-O2	10.96	129.57	121.90
85	5	2627	C	N3-C4-C5	-10.96	117.52	121.90
80	6	1164	G	C5-C6-O6	-10.96	122.03	128.60
37	7	21	G	C8-N9-C4	-10.95	102.02	106.40
1	2	110	U	C6-N1-C2	-10.95	114.43	121.00
85	5	1429	G	C6-N1-C2	-10.95	118.53	125.10
85	5	3333	G	N1-C2-N3	10.95	130.47	123.90
36	1	55	G	N9-C4-C5	-10.95	101.02	105.40
36	1	1930	A	C8-N9-C4	-10.95	101.42	105.80
36	1	2701	U	C4-C5-C6	10.95	126.27	119.70
80	6	1109	G	N1-C6-O6	-10.95	113.33	119.90
85	5	206	G	N9-C4-C5	10.95	109.78	105.40
85	5	407	A	O5'-P-OP1	-10.95	95.85	105.70
85	5	1418	A	C4-C5-C6	10.95	122.47	117.00
85	5	2953	U	N3-C4-O4	10.95	127.06	119.40
36	1	107	A	C5-C6-N1	10.95	123.17	117.70
36	1	510	G	C4-C5-N7	10.95	115.18	110.80
36	1	845	G	C4-C5-N7	-10.95	106.42	110.80
36	1	2105	G	N7-C8-N9	10.95	118.57	113.10
36	1	2729	U	N3-C2-O2	10.95	129.86	122.20
85	5	1187	C	N3-C4-C5	10.95	126.28	121.90
36	1	2848	G	O5'-P-OP2	-10.95	95.85	105.70
85	5	57	A	N1-C6-N6	10.94	125.17	118.60
85	5	930	U	N1-C2-N3	-10.94	108.33	114.90
85	5	1483	G	C4-C5-N7	-10.95	106.42	110.80
85	5	2830	G	N7-C8-N9	-10.95	107.63	113.10
85	5	3373	U	C5-C6-N1	-10.94	117.23	122.70
36	1	5	G	C5-C6-N1	-10.94	106.03	111.50
36	1	677	A	C5-C6-N1	10.94	123.17	117.70
85	5	960	U	C5-C6-N1	10.94	128.17	122.70
85	5	3343	G	C5-C6-N1	-10.94	106.03	111.50
36	1	1834	U	C4-C5-C6	10.94	126.27	119.70
80	6	1742	U	N1-C2-O2	-10.94	115.14	122.80
85	5	2638	C	C6-N1-C2	-10.94	115.92	120.30
85	5	3042	U	C5-C4-O4	-10.94	119.33	125.90
1	2	891	U	N3-C4-O4	-10.94	111.74	119.40
1	2	1152	G	N3-C4-C5	-10.94	123.13	128.60
38	4	148	G	OP1-P-OP2	10.94	136.01	119.60
36	1	1898	G	C5-C6-N1	10.94	116.97	111.50
36	1	3275	U	C4-C5-C6	-10.94	113.14	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2238	G	OP1-P-OP2	-10.94	103.19	119.60
85	5	1362	G	N1-C2-N2	-10.94	106.36	116.20
80	6	1629	G	C4-C5-N7	-10.94	106.43	110.80
36	1	1400	G	C5-N7-C8	10.93	109.77	104.30
1	2	873	C	C6-N1-C2	10.93	124.67	120.30
80	6	1748	G	C8-N9-C4	10.93	110.77	106.40
85	5	3028	G	N1-C2-N2	-10.93	106.36	116.20
37	7	117	A	N1-C2-N3	10.93	134.77	129.30
36	1	92	G	N1-C2-N2	-10.93	106.36	116.20
80	6	941	A	C5-C6-N1	10.93	123.17	117.70
85	5	2425	G	C2-N3-C4	-10.93	106.43	111.90
38	8	21	C	N3-C2-O2	-10.93	114.25	121.90
36	1	22	G	C5-C6-N1	10.93	116.96	111.50
36	1	1330	A	C2-N3-C4	-10.93	105.14	110.60
36	1	3110	C	N3-C4-C5	-10.93	117.53	121.90
36	1	3142	A	N1-C2-N3	10.93	134.76	129.30
80	6	551	G	C5-C6-N1	-10.93	106.04	111.50
85	5	99	A	C8-N9-C4	10.93	110.17	105.80
85	5	1934	G	C6-C5-N7	-10.93	123.84	130.40
85	5	2876	C	N1-C2-O2	-10.93	112.34	118.90
85	5	2699	G	C8-N9-C4	10.93	110.77	106.40
85	5	3036	G	O5'-P-OP2	-10.93	95.87	105.70
37	7	114	U	C4-C5-C6	10.93	126.26	119.70
85	5	974	G	N9-C4-C5	10.92	109.77	105.40
36	1	745	C	C6-N1-C2	10.92	124.67	120.30
85	5	820	A	N9-C4-C5	10.92	110.17	105.80
85	5	2317	A	N1-C6-N6	-10.92	112.05	118.60
36	1	186	U	C5-C4-O4	10.92	132.45	125.90
36	1	948	C	C5-C6-N1	-10.92	115.54	121.00
36	1	1399	A	C2-N3-C4	-10.92	105.14	110.60
85	5	56	G	O5'-P-OP2	-10.92	95.87	105.70
85	5	2375	G	N3-C4-C5	-10.92	123.14	128.60
36	1	638	C	C6-N1-C2	-10.92	115.93	120.30
85	5	3057	U	N3-C2-O2	-10.92	114.56	122.20
36	1	2714	G	C5-N7-C8	-10.92	98.84	104.30
85	5	3138	U	O5'-P-OP2	-10.92	95.88	105.70
80	6	396	G	C5-C6-O6	10.91	135.15	128.60
80	6	446	A	N7-C8-N9	10.91	119.26	113.80
36	1	2984	C	C5-C6-N1	10.91	126.46	121.00
80	6	447	U	N3-C4-O4	10.91	127.04	119.40
1	2	131	C	C6-N1-C2	-10.91	115.94	120.30
36	1	1339	C	N1-C2-O2	10.91	125.45	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1359	C	C5-C6-N1	-10.91	115.55	121.00
36	1	2628	A	C5-C6-N1	10.91	123.16	117.70
38	4	92	A	N1-C2-N3	10.91	134.75	129.30
80	6	1086	A	C5-C6-N1	10.91	123.16	117.70
85	5	951	A	C5-C6-N1	-10.91	112.25	117.70
85	5	1136	A	N1-C2-N3	10.91	134.75	129.30
85	5	1368	U	C5-C4-O4	-10.91	119.36	125.90
36	1	704	U	N3-C4-O4	10.91	127.03	119.40
85	5	1508	C	C4-C5-C6	10.91	122.85	117.40
85	5	1855	U	C6-N1-C2	-10.91	114.46	121.00
85	5	1889	G	O5'-P-OP2	-10.91	95.88	105.70
85	5	3173	G	O5'-P-OP2	-10.91	95.88	105.70
36	1	515	C	N1-C2-O2	-10.90	112.36	118.90
36	1	865	U	N3-C4-O4	-10.90	111.77	119.40
36	1	2319	U	C6-N1-C2	-10.90	114.46	121.00
36	1	2959	C	N1-C2-O2	-10.90	112.36	118.90
85	5	1880	U	C5-C4-O4	10.90	132.44	125.90
85	5	1440	G	C8-N9-C4	-10.90	102.04	106.40
85	5	2116	G	N1-C6-O6	10.90	126.44	119.90
85	5	2400	G	N7-C8-N9	10.90	118.55	113.10
85	5	3244	A	N1-C6-N6	-10.90	112.06	118.60
36	1	305	U	N1-C2-N3	10.90	121.44	114.90
36	1	1802	C	C2-N3-C4	10.90	125.35	119.90
36	1	1952	G	C8-N9-C4	-10.90	102.04	106.40
36	1	2874	G	C2-N3-C4	-10.90	106.45	111.90
85	5	1065	A	O5'-P-OP1	-10.90	95.89	105.70
85	5	1102	A	C2-N3-C4	-10.90	105.15	110.60
85	5	2831	G	C6-N1-C2	-10.90	118.56	125.10
85	5	3204	C	C5-C6-N1	-10.90	115.55	121.00
36	1	1211	U	C2-N3-C4	-10.90	120.46	127.00
85	5	2520	A	O5'-P-OP1	-10.90	95.89	105.70
36	1	610	G	N3-C4-C5	10.90	134.05	128.60
36	1	1363	A	N1-C6-N6	-10.90	112.06	118.60
85	5	2951	G	C5-N7-C8	-10.90	98.85	104.30
85	5	2786	G	C2-N3-C4	-10.89	106.45	111.90
36	1	2197	C	N3-C4-C5	10.89	126.26	121.90
85	5	734	C	N1-C2-N3	-10.89	111.58	119.20
85	5	2350	C	C4-C5-C6	10.89	122.85	117.40
38	8	4	C	C2-N3-C4	-10.89	114.45	119.90
36	1	907	G	N3-C2-N2	10.89	127.52	119.90
85	5	1604	G	N3-C4-C5	-10.89	123.15	128.60
1	2	56	U	N3-C2-O2	-10.89	114.58	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	205	C	C6-N1-C2	-10.89	115.94	120.30
85	5	99	A	C2-N3-C4	-10.89	105.16	110.60
85	5	638	C	N1-C2-O2	10.89	125.43	118.90
85	5	725	G	N7-C8-N9	-10.89	107.66	113.10
85	5	3377	G	C5-N7-C8	-10.89	98.86	104.30
36	1	905	U	N1-C2-O2	-10.89	115.18	122.80
85	5	1178	G	C6-N1-C2	-10.89	118.57	125.10
85	5	3072	C	N3-C4-N4	10.89	125.62	118.00
85	5	3180	A	O5'-P-OP1	-10.89	95.90	105.70
85	5	3319	U	C5-C6-N1	-10.89	117.26	122.70
36	1	2939	G	N1-C6-O6	-10.89	113.37	119.90
80	6	211	U	C2-N3-C4	-10.89	120.47	127.00
36	1	1195	A	O5'-P-OP1	-10.88	95.90	105.70
85	5	1186	G	O5'-P-OP2	-10.88	95.90	105.70
85	5	3245	A	N3-C4-C5	10.88	134.42	126.80
36	1	2241	U	N3-C4-C5	-10.88	108.07	114.60
80	6	622	A	O5'-P-OP2	10.88	123.76	110.70
37	7	41	G	C5-C6-N1	-10.88	106.06	111.50
36	1	1328	C	C6-N1-C2	-10.88	115.95	120.30
37	3	84	A	C8-N9-C4	-10.88	101.45	105.80
80	6	327	U	C6-N1-C2	-10.88	114.47	121.00
85	5	1555	U	N3-C2-O2	-10.88	114.58	122.20
38	8	112	U	O5'-P-OP1	-10.88	95.91	105.70
1	2	1457	G	C8-N9-C4	10.88	110.75	106.40
85	5	2120	A	C8-N9-C4	-10.88	101.45	105.80
36	1	636	C	N1-C2-N3	10.88	126.81	119.20
36	1	2376	G	C5-N7-C8	-10.88	98.86	104.30
36	1	2427	U	O5'-P-OP2	-10.88	95.91	105.70
36	1	3188	G	C8-N9-C4	-10.88	102.05	106.40
36	1	3378	C	N1-C2-O2	-10.87	112.38	118.90
80	6	565	C	N1-C2-N3	10.88	126.81	119.20
80	6	1164	G	C4-C5-N7	10.88	115.15	110.80
80	6	914	G	C8-N9-C4	10.87	110.75	106.40
85	5	84	U	C5-C6-N1	-10.87	117.26	122.70
85	5	1420	C	O5'-P-OP1	10.87	123.75	110.70
85	5	1047	A	C4-C5-N7	10.87	116.14	110.70
85	5	2340	U	C5-C4-O4	-10.87	119.38	125.90
85	5	2428	U	N3-C2-O2	10.87	129.81	122.20
85	5	2417	U	C2-N3-C4	10.87	133.52	127.00
85	5	3390	G	C4-C5-N7	10.87	115.15	110.80
36	1	665	A	C5-C6-N6	-10.87	115.01	123.70
85	5	106	A	N7-C8-N9	-10.87	108.37	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	947	G	O5'-P-OP2	-10.87	95.92	105.70
36	1	2182	A	N1-C2-N3	10.87	134.73	129.30
36	1	2945	G	C6-C5-N7	-10.87	123.88	130.40
80	6	1623	C	N1-C2-O2	-10.86	112.38	118.90
85	5	932	U	C2-N3-C4	-10.87	120.48	127.00
85	5	1488	G	N1-C6-O6	10.87	126.42	119.90
85	5	2928	C	N1-C2-N3	10.86	126.81	119.20
37	7	38	U	N3-C4-O4	10.87	127.01	119.40
36	1	154	U	C5-C6-N1	-10.86	117.27	122.70
1	2	111	U	N3-C4-O4	10.86	127.00	119.40
36	1	1933	A	N1-C2-N3	10.86	134.73	129.30
80	6	591	A	N7-C8-N9	-10.86	108.37	113.80
85	5	817	A	C5-C6-N6	-10.86	115.01	123.70
85	5	3131	U	C6-N1-C1'	-10.86	106.00	121.20
85	5	2927	C	N3-C4-C5	-10.86	117.56	121.90
36	1	811	U	N3-C2-O2	-10.86	114.60	122.20
36	1	839	C	N3-C2-O2	10.86	129.50	121.90
85	5	1544	G	C8-N9-C4	10.86	110.74	106.40
1	2	312	A	N9-C4-C5	10.86	110.14	105.80
1	2	1542	A	N1-C6-N6	10.86	125.11	118.60
36	1	1428	A	N1-C6-N6	10.86	125.11	118.60
36	1	1654	A	C6-N1-C2	-10.86	112.09	118.60
36	1	2291	A	C8-N9-C4	-10.86	101.46	105.80
36	1	2339	C	O5'-P-OP1	-10.86	95.93	105.70
80	6	1722	A	C8-N9-C4	10.86	110.14	105.80
85	5	900	G	C8-N9-C4	-10.86	102.06	106.40
36	1	3046	A	C5-C6-N1	-10.86	112.27	117.70
85	5	534	U	N3-C2-O2	-10.86	114.60	122.20
85	5	814	U	C5-C6-N1	10.86	128.13	122.70
85	5	2811	A	C6-N1-C2	-10.86	112.09	118.60
1	2	908	G	C5-C6-N1	10.85	116.93	111.50
80	6	578	U	N1-C2-O2	-10.85	115.20	122.80
85	5	513	G	C5-N7-C8	10.85	109.73	104.30
36	1	125	C	N3-C4-C5	10.85	126.24	121.90
36	1	1062	A	C5-N7-C8	-10.85	98.47	103.90
85	5	37	U	N1-C2-N3	10.85	121.41	114.90
85	5	2303	A	N7-C8-N9	-10.85	108.37	113.80
85	5	3210	A	C5-C6-N6	-10.85	115.02	123.70
37	7	77	G	N7-C8-N9	-10.85	107.67	113.10
80	6	91	G	OP1-P-OP2	-10.85	103.33	119.60
85	5	1486	G	N1-C2-N3	10.85	130.41	123.90
36	1	1903	U	N3-C4-O4	10.85	126.99	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	18	G	C2-N3-C4	-10.85	106.48	111.90
36	1	813	G	N1-C6-O6	10.85	126.41	119.90
80	6	987	G	C4-C5-N7	10.85	115.14	110.80
85	5	2239	G	C2-N3-C4	-10.85	106.48	111.90
36	1	1312	C	N3-C4-N4	10.85	125.59	118.00
36	1	1655	G	C6-N1-C2	-10.85	118.59	125.10
85	5	2400	G	C8-N9-C4	-10.85	102.06	106.40
85	5	2606	G	N1-C6-O6	-10.85	113.39	119.90
85	5	3092	C	N1-C2-O2	10.85	125.41	118.90
36	1	1392	G	N3-C4-C5	-10.84	123.18	128.60
36	1	1673	G	C4-C5-C6	10.84	125.31	118.80
37	3	33	U	C5-C4-O4	10.84	132.41	125.90
80	6	1755	A	O5'-P-OP2	10.84	123.71	110.70
85	5	530	G	C4-C5-N7	10.84	115.14	110.80
1	2	1633	U	C5-C6-N1	-10.84	117.28	122.70
36	1	2726	C	C6-N1-C2	-10.84	115.96	120.30
38	8	73	U	N1-C2-O2	10.84	130.39	122.80
36	1	3340	G	N7-C8-N9	10.84	118.52	113.10
85	5	649	A	C6-C5-N7	-10.84	124.71	132.30
85	5	1863	G	C4-C5-N7	-10.84	106.47	110.80
85	5	2185	G	C2-N3-C4	-10.84	106.48	111.90
85	5	2981	U	C6-N1-C2	-10.84	114.50	121.00
36	1	402	A	N1-C6-N6	-10.84	112.10	118.60
36	1	1345	G	N3-C4-C5	10.84	134.02	128.60
80	6	358	U	C5-C6-N1	10.84	128.12	122.70
37	7	6	C	N1-C2-N3	10.84	126.78	119.20
1	2	1325	C	C6-N1-C2	-10.83	115.97	120.30
36	1	1306	G	N1-C6-O6	10.83	126.40	119.90
36	1	1320	C	C4-C5-C6	10.83	122.82	117.40
36	1	2715	A	C6-N1-C2	-10.83	112.10	118.60
38	4	44	A	O5'-P-OP2	10.83	123.70	110.70
85	5	1555	U	C5-C6-N1	-10.83	117.28	122.70
85	5	2227	C	C4-C5-C6	10.83	122.82	117.40
85	5	3245	A	N9-C4-C5	-10.83	101.47	105.80
41	14	202	ARG	NE-CZ-NH1	10.83	125.72	120.30
36	1	856	G	C6-N1-C2	-10.83	118.60	125.10
80	6	463	U	N3-C2-O2	10.83	129.78	122.20
80	6	1748	G	C5-C6-N1	-10.83	106.08	111.50
85	5	855	U	N3-C4-C5	-10.83	108.10	114.60
85	5	2396	G	N7-C8-N9	10.83	118.52	113.10
36	1	645	A	N1-C2-N3	10.83	134.71	129.30
36	1	1400	G	N7-C8-N9	-10.83	107.69	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2138	A	C6-C5-N7	-10.83	124.72	132.30
85	5	361	A	N1-C6-N6	-10.83	112.10	118.60
85	5	1487	G	N1-C6-O6	-10.83	113.40	119.90
85	5	3069	G	C5-C6-N1	10.83	116.91	111.50
36	1	1931	U	C6-N1-C2	10.82	127.50	121.00
85	5	601	U	O5'-P-OP2	-10.82	95.96	105.70
85	5	2732	G	C4-C5-C6	10.82	125.29	118.80
1	2	561	G	N9-C4-C5	10.82	109.73	105.40
36	1	1483	G	C4-C5-N7	-10.82	106.47	110.80
36	1	2186	U	O5'-P-OP2	-10.82	95.96	105.70
80	6	349	U	C5-C4-O4	10.82	132.39	125.90
80	6	678	A	N1-C6-N6	-10.82	112.11	118.60
80	6	1118	G	N1-C6-O6	10.82	126.39	119.90
85	5	64	G	N1-C6-O6	10.82	126.39	119.90
85	5	1382	G	C5-C6-O6	-10.82	122.11	128.60
85	5	1076	C	C5-C6-N1	-10.82	115.59	121.00
36	1	970	A	N1-C2-N3	10.82	134.71	129.30
37	7	51	A	C8-N9-C4	-10.82	101.47	105.80
1	2	1637	G	N1-C6-O6	-10.82	113.41	119.90
36	1	1933	A	C2-N3-C4	-10.82	105.19	110.60
36	1	2836	C	C4-C5-C6	10.82	122.81	117.40
37	3	72	A	C2-N3-C4	-10.82	105.19	110.60
85	5	1035	G	N1-C6-O6	-10.82	113.41	119.90
85	5	1142	G	N1-C2-N3	10.82	130.39	123.90
38	8	28	C	C6-N1-C2	10.82	124.63	120.30
88	n4	54	LEU	CB-CG-CD1	-10.82	92.61	111.00
85	5	1159	A	C5-C6-N6	-10.81	115.05	123.70
36	1	1075	A	C5-C6-N1	10.81	123.11	117.70
36	1	1413	G	C4-C5-N7	10.81	115.12	110.80
80	6	1663	G	C6-C5-N7	-10.81	123.91	130.40
85	5	2883	U	C4-C5-C6	10.81	126.19	119.70
36	1	2917	G	C8-N9-C4	-10.81	102.08	106.40
85	5	1804	A	C2-N3-C4	-10.81	105.19	110.60
85	5	2702	A	C4-C5-C6	10.81	122.41	117.00
36	1	2515	A	C8-N9-C4	-10.81	101.48	105.80
80	6	53	G	O5'-P-OP2	-10.81	95.97	105.70
85	5	656	A	C4-C5-N7	10.81	116.10	110.70
85	5	1367	G	N1-C6-O6	10.81	126.39	119.90
85	5	2163	C	N3-C4-C5	-10.81	117.58	121.90
85	5	1596	C	N3-C4-C5	-10.81	117.58	121.90
36	1	2800	G	C5-C6-N1	10.80	116.90	111.50
36	1	3343	G	N1-C6-O6	10.80	126.38	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2098	C	N3-C4-C5	-10.80	117.58	121.90
36	1	2378	C	C5-C4-N4	-10.80	112.64	120.20
36	1	2396	G	O5'-P-OP2	-10.80	95.98	105.70
80	6	445	A	N1-C2-N3	-10.80	123.90	129.30
38	8	34	U	N3-C4-O4	10.80	126.96	119.40
1	2	1631	A	O5'-P-OP2	-10.80	95.98	105.70
36	1	58	G	N1-C6-O6	-10.80	113.42	119.90
36	1	944	C	C6-N1-C2	10.80	124.62	120.30
36	1	2201	G	C2-N3-C4	-10.80	106.50	111.90
80	6	1722	A	N1-C6-N6	-10.80	112.12	118.60
85	5	198	A	C8-N9-C4	10.80	110.12	105.80
85	5	1850	A	O5'-P-OP1	-10.80	95.98	105.70
1	2	961	A	C8-N9-C4	-10.79	101.48	105.80
85	5	2872	A	O5'-P-OP2	10.80	123.66	110.70
1	2	1087	U	O5'-P-OP2	-10.79	95.98	105.70
36	1	657	A	N7-C8-N9	10.79	119.20	113.80
36	1	1400	G	C8-N9-C4	10.79	110.72	106.40
36	1	2961	G	C8-N9-C4	-10.79	102.08	106.40
85	5	2617	U	C6-N1-C2	-10.79	114.52	121.00
78	q2	77	CYS	CA-CB-SG	-10.79	94.57	114.00
36	1	1802	C	C5-C6-N1	10.79	126.40	121.00
36	1	2660	G	C5-C6-N1	10.79	116.89	111.50
36	1	3060	C	C5-C6-N1	-10.79	115.60	121.00
80	6	464	A	OP1-P-OP2	-10.79	103.41	119.60
85	5	421	G	N1-C2-N3	10.79	130.38	123.90
85	5	216	G	N3-C4-C5	10.79	134.00	128.60
85	5	671	U	N3-C2-O2	10.79	129.75	122.20
85	5	1698	C	O5'-P-OP2	-10.79	95.99	105.70
85	5	1733	G	N7-C8-N9	10.79	118.50	113.10
1	2	324	U	O5'-P-OP2	-10.79	95.99	105.70
38	4	100	U	C6-N1-C2	10.79	127.47	121.00
80	6	419	G	C4-C5-N7	10.79	115.12	110.80
85	5	682	U	N1-C2-O2	-10.79	115.25	122.80
85	5	2863	G	O5'-P-OP1	10.79	123.65	110.70
36	1	346	C	N1-C2-O2	-10.79	112.43	118.90
36	1	1394	A	C5-C6-N6	-10.79	115.07	123.70
36	1	1693	C	N3-C4-C5	-10.79	117.58	121.90
85	5	2302	G	N9-C4-C5	10.79	109.72	105.40
85	5	3186	A	N1-C2-N3	10.79	134.69	129.30
36	1	37	U	N3-C4-C5	-10.79	108.13	114.60
36	1	2945	G	C2-N3-C4	-10.79	106.51	111.90
36	1	678	G	C4-C5-C6	10.78	125.27	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1353	U	C6-N1-C1'	10.78	136.30	121.20
85	5	1444	G	C2-N3-C4	-10.79	106.51	111.90
85	5	1889	G	OP1-P-OP2	-10.79	103.42	119.60
85	5	3126	C	N3-C4-N4	-10.79	110.45	118.00
85	5	734	C	N1-C2-O2	10.78	125.37	118.90
36	1	2401	A	N7-C8-N9	10.78	119.19	113.80
36	1	2840	C	N3-C2-O2	-10.78	114.35	121.90
38	4	142	C	N3-C4-N4	10.78	125.55	118.00
80	6	1657	U	C2-N3-C4	10.78	133.47	127.00
85	5	657	A	C5-C6-N6	-10.78	115.07	123.70
85	5	2130	G	N3-C2-N2	-10.78	112.35	119.90
36	1	946	U	C4-C5-C6	10.78	126.17	119.70
36	1	1730	G	N1-C2-N3	10.78	130.37	123.90
85	5	2786	G	N1-C2-N3	10.78	130.37	123.90
85	5	2915	U	C2-N3-C4	-10.78	120.53	127.00
85	5	2952	G	N1-C6-O6	10.78	126.37	119.90
85	5	90	C	N3-C4-C5	-10.78	117.59	121.90
36	1	727	G	N3-C2-N2	10.78	127.44	119.90
36	1	1664	G	C2-N3-C4	-10.78	106.51	111.90
38	4	104	A	N7-C8-N9	10.78	119.19	113.80
85	5	2695	A	C6-N1-C2	-10.78	112.14	118.60
1	2	90	C	C6-N1-C2	-10.77	115.99	120.30
36	1	228	U	N3-C2-O2	-10.77	114.66	122.20
36	1	1596	C	C6-N1-C2	10.77	124.61	120.30
1	2	1167	A	O5'-P-OP1	-10.77	96.00	105.70
36	1	369	A	N7-C8-N9	10.77	119.19	113.80
36	1	721	G	C5-C6-O6	-10.77	122.14	128.60
36	1	1459	C	C4-C5-C6	10.77	122.79	117.40
36	1	2621	G	C6-C5-N7	-10.77	123.94	130.40
80	6	328	A	C8-N9-C4	-10.77	101.49	105.80
80	6	1703	C	C5-C6-N1	10.77	126.39	121.00
85	5	413	U	N3-C2-O2	10.77	129.74	122.20
85	5	508	U	N1-C2-O2	-10.77	115.26	122.80
85	5	2829	U	C5-C4-O4	-10.77	119.44	125.90
36	1	1529	A	C5-N7-C8	-10.77	98.51	103.90
36	1	3277	U	N1-C2-O2	10.77	130.34	122.80
85	5	301	G	C4-C5-N7	-10.77	106.49	110.80
36	1	1111	U	N1-C2-N3	10.77	121.36	114.90
36	1	2754	G	C2-N3-C4	-10.77	106.52	111.90
85	5	946	U	C5-C6-N1	-10.77	117.31	122.70
85	5	1491	A	C5-C6-N1	10.77	123.08	117.70
85	5	2879	C	N3-C2-O2	10.77	129.44	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3382	U	N1-C2-O2	10.77	130.34	122.80
1	2	404	G	C8-N9-C4	10.77	110.71	106.40
36	1	104	G	C5-C6-O6	-10.77	122.14	128.60
1	2	553	G	C5-C6-O6	-10.77	122.14	128.60
38	4	63	G	C8-N9-C4	-10.77	102.09	106.40
80	6	467	G	C8-N9-C4	10.77	110.71	106.40
85	5	184	U	C5-C6-N1	-10.77	117.32	122.70
85	5	1203	A	N9-C4-C5	10.77	110.11	105.80
85	5	2215	A	N9-C4-C5	-10.77	101.49	105.80
36	1	1785	U	C6-N1-C2	10.76	127.46	121.00
85	5	571	U	C4-C5-C6	10.76	126.16	119.70
36	1	2192	C	C6-N1-C2	-10.76	116.00	120.30
85	5	630	A	C5-C6-N1	-10.76	112.32	117.70
85	5	2759	U	C4-C5-C6	10.76	126.16	119.70
85	5	686	G	C5-C6-N1	-10.76	106.12	111.50
36	1	197	G	N9-C4-C5	-10.76	101.10	105.40
1	2	1128	U	N3-C4-O4	10.76	126.93	119.40
36	1	837	A	O5'-P-OP1	10.76	123.61	110.70
85	5	805	G	O5'-P-OP2	-10.76	96.02	105.70
85	5	2249	G	C8-N9-C4	-10.76	102.10	106.40
85	5	2662	G	N3-C4-C5	-10.76	123.22	128.60
36	1	3386	G	N1-C6-O6	10.76	126.36	119.90
37	7	99	G	N1-C6-O6	-10.76	113.45	119.90
36	1	646	A	C4-C5-C6	10.76	122.38	117.00
36	1	688	G	C4-C5-N7	-10.76	106.50	110.80
36	1	1453	A	N1-C6-N6	-10.76	112.15	118.60
36	1	2142	A	OP1-P-O3'	10.76	128.86	105.20
36	1	1495	U	C2-N3-C4	-10.75	120.55	127.00
36	1	2224	A	C6-N1-C2	-10.75	112.15	118.60
85	5	1017	C	C5-C6-N1	10.75	126.38	121.00
85	5	1691	U	N3-C2-O2	-10.75	114.67	122.20
85	5	810	A	C5-C6-N1	10.75	123.08	117.70
85	5	990	U	N3-C2-O2	-10.75	114.67	122.20
85	5	2142	A	N3-C4-C5	-10.75	119.27	126.80
85	5	3209	A	O5'-P-OP2	-10.75	96.02	105.70
38	8	138	A	N7-C8-N9	-10.75	108.42	113.80
85	5	394	G	C6-N1-C2	10.75	131.55	125.10
36	1	800	G	C5-C6-N1	-10.75	106.13	111.50
36	1	2355	G	C6-C5-N7	-10.75	123.95	130.40
36	1	2807	U	N3-C4-O4	10.75	126.93	119.40
80	6	554	C	N3-C2-O2	-10.75	114.38	121.90
85	5	1458	U	N3-C4-O4	10.75	126.92	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2737	C	N1-C2-O2	-10.75	112.45	118.90
85	5	2124	G	N3-C2-N2	-10.75	112.38	119.90
36	1	913	A	N1-C6-N6	10.75	125.05	118.60
36	1	1124	U	N3-C2-O2	-10.75	114.68	122.20
36	1	1164	G	C6-N1-C2	-10.75	118.65	125.10
36	1	1204	A	C8-N9-C4	10.75	110.10	105.80
85	5	225	C	C5-C6-N1	10.75	126.37	121.00
36	1	903	U	N3-C4-C5	-10.74	108.15	114.60
85	5	2762	A	N9-C4-C5	10.74	110.10	105.80
85	5	2876	C	N1-C2-N3	10.74	126.72	119.20
36	1	622	A	N1-C6-N6	10.74	125.05	118.60
36	1	1377	G	N1-C6-O6	10.74	126.34	119.90
85	5	1924	U	C2-N3-C4	-10.74	120.56	127.00
85	5	2329	C	N1-C2-O2	-10.74	112.45	118.90
85	5	2920	U	N1-C2-N3	10.74	121.34	114.90
37	3	63	A	C6-N1-C2	-10.74	112.16	118.60
85	5	542	G	N1-C6-O6	10.74	126.34	119.90
85	5	937	G	C6-N1-C2	-10.74	118.66	125.10
85	5	3172	A	C5-C6-N6	-10.74	115.11	123.70
85	5	1174	G	O5'-P-OP1	-10.74	96.03	105.70
85	5	1284	C	O5'-P-OP1	-10.74	96.03	105.70
37	7	6	C	C5-C6-N1	-10.74	115.63	121.00
36	1	2624	G	O5'-P-OP1	-10.74	96.04	105.70
36	1	3330	A	N3-C4-C5	-10.74	119.28	126.80
37	3	31	U	C6-N1-C2	-10.74	114.56	121.00
85	5	3046	A	C4-C5-C6	10.74	122.37	117.00
85	5	3376	A	N1-C2-N3	10.74	134.67	129.30
36	1	266	A	O5'-P-OP2	-10.73	96.04	105.70
80	6	942	G	C5-C6-O6	-10.73	122.16	128.60
85	5	2185	G	N1-C2-N3	10.73	130.34	123.90
36	1	282	G	N9-C4-C5	10.73	109.69	105.40
36	1	614	C	C5-C4-N4	-10.73	112.69	120.20
85	5	582	G	C5-C6-N1	-10.73	106.13	111.50
85	5	1775	G	O5'-P-OP1	-10.73	96.04	105.70
85	5	2396	G	C5-N7-C8	-10.73	98.93	104.30
1	2	809	U	N3-C4-C5	-10.73	108.16	114.60
36	1	2836	C	N3-C4-C5	-10.73	117.61	121.90
38	4	130	C	N1-C2-O2	-10.73	112.46	118.90
85	5	28	C	C2-N3-C4	-10.73	114.53	119.90
85	5	2784	G	N1-C2-N2	-10.73	106.54	116.20
85	5	729	C	C5-C4-N4	-10.73	112.69	120.20
36	1	2290	C	N3-C4-C5	-10.73	117.61	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	718	G	C8-N9-C4	-10.73	102.11	106.40
36	1	585	A	C6-N1-C2	10.72	125.03	118.60
85	5	630	A	C8-N9-C4	10.72	110.09	105.80
36	1	2326	A	C5-C6-N6	10.72	132.28	123.70
85	5	717	C	N1-C2-O2	10.72	125.33	118.90
36	1	692	A	C2-N3-C4	10.72	115.96	110.60
36	1	871	U	C6-N1-C2	10.72	127.43	121.00
36	1	1525	G	C8-N9-C4	-10.72	102.11	106.40
36	1	725	G	C2-N3-C4	-10.72	106.54	111.90
36	1	2228	A	N1-C6-N6	10.72	125.03	118.60
80	6	972	G	C5-C6-O6	-10.72	122.17	128.60
36	1	602	A	C5-C6-N1	-10.72	112.34	117.70
1	2	8	U	OP1-P-OP2	10.72	135.68	119.60
1	2	996	A	C5-C6-N1	10.72	123.06	117.70
36	1	342	A	N1-C6-N6	-10.72	112.17	118.60
85	5	218	G	O5'-P-OP2	-10.72	96.06	105.70
85	5	2816	G	C4-C5-C6	10.72	125.23	118.80
85	5	2889	C	C4-C5-C6	-10.72	112.04	117.40
85	5	3019	U	C2-N3-C4	10.72	133.43	127.00
85	5	3091	A	C6-N1-C2	-10.72	112.17	118.60
37	7	72	A	C2-N3-C4	10.72	115.96	110.60
36	1	1425	U	C5-C6-N1	-10.72	117.34	122.70
85	5	326	U	O5'-P-OP2	-10.72	96.06	105.70
85	5	875	G	N1-C6-O6	-10.72	113.47	119.90
85	5	1697	A	C5-C6-N1	-10.72	112.34	117.70
85	5	2960	C	N3-C2-O2	-10.71	114.40	121.90
36	1	970	A	N7-C8-N9	10.71	119.16	113.80
36	1	1003	A	C4-C5-C6	10.71	122.36	117.00
85	5	1500	G	OP1-P-OP2	-10.71	103.53	119.60
36	1	3270	U	N3-C2-O2	-10.71	114.70	122.20
85	5	395	A	C6-N1-C2	-10.71	112.17	118.60
85	5	2155	G	C5-C6-N1	10.71	116.86	111.50
36	1	998	A	C5-N7-C8	-10.71	98.55	103.90
36	1	2393	G	C5-C6-N1	10.71	116.85	111.50
38	4	100	U	N1-C2-N3	-10.71	108.47	114.90
85	5	381	U	N3-C4-O4	10.71	126.90	119.40
80	6	1585	U	C6-N1-C2	10.71	127.42	121.00
85	5	1062	A	N1-C6-N6	-10.71	112.17	118.60
85	5	2215	A	C5-N7-C8	-10.71	98.55	103.90
38	8	140	G	C8-N9-C4	-10.71	102.12	106.40
85	5	995	U	N1-C2-N3	10.71	121.32	114.90
85	5	2941	A	N9-C4-C5	10.71	110.08	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	743	C	C6-N1-C2	10.70	124.58	120.30
36	1	1349	G	C2-N3-C4	10.70	117.25	111.90
36	1	2860	U	OP1-P-OP2	-10.70	103.55	119.60
36	1	2202	C	C5-C4-N4	-10.70	112.71	120.20
36	1	2315	G	N1-C2-N3	10.70	130.32	123.90
38	4	130	C	C5-C4-N4	-10.70	112.71	120.20
85	5	2187	G	C8-N9-C4	-10.70	102.12	106.40
85	5	2192	C	C5-C4-N4	10.70	127.69	120.20
85	5	2305	G	C6-N1-C2	-10.70	118.68	125.10
36	1	569	A	N1-C6-N6	10.70	125.02	118.60
36	1	1067	U	C5-C6-N1	-10.70	117.35	122.70
1	2	1250	G	N7-C8-N9	10.70	118.45	113.10
36	1	2282	U	N1-C2-O2	10.70	130.29	122.80
36	1	2607	G	O5'-P-OP2	-10.70	96.07	105.70
85	5	58	G	O5'-P-OP1	10.70	123.54	110.70
85	5	722	G	C4-C5-C6	10.70	125.22	118.80
85	5	777	U	N3-C2-O2	10.70	129.69	122.20
85	5	1430	U	N3-C2-O2	10.70	129.69	122.20
85	5	2883	U	N3-C4-C5	-10.70	108.18	114.60
85	5	2944	U	N1-C2-N3	10.70	121.32	114.90
38	8	55	U	O5'-P-OP1	-10.70	96.07	105.70
38	8	58	G	OP1-P-OP2	-10.70	103.55	119.60
1	2	361	C	N1-C2-O2	-10.70	112.48	118.90
36	1	711	A	C5-C6-N1	10.70	123.05	117.70
36	1	857	G	N1-C2-N3	10.70	130.32	123.90
36	1	1633	C	C6-N1-C2	-10.70	116.02	120.30
36	1	1325	U	C5-C6-N1	-10.70	117.35	122.70
36	1	2366	C	C5-C4-N4	10.70	127.69	120.20
85	5	402	A	C6-N1-C2	-10.70	112.18	118.60
85	5	1415	U	C4-C5-C6	10.70	126.12	119.70
85	5	124	U	C5-C6-N1	-10.70	117.35	122.70
85	5	658	G	C4-C5-N7	10.70	115.08	110.80
85	5	664	U	N3-C4-O4	10.70	126.89	119.40
85	5	2523	A	N1-C6-N6	-10.70	112.18	118.60
1	2	362	G	C2-N3-C4	-10.69	106.55	111.90
1	2	1195	G	N1-C6-O6	10.69	126.32	119.90
36	1	4	U	N3-C2-O2	10.69	129.68	122.20
80	6	107	C	C5-C6-N1	-10.69	115.65	121.00
36	1	282	G	N7-C8-N9	10.69	118.45	113.10
36	1	2136	C	N1-C2-O2	-10.69	112.48	118.90
36	1	3152	U	C5-C4-O4	10.69	132.31	125.90
80	6	1417	A	OP1-P-OP2	-10.69	103.56	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	363	G	C5-C6-O6	-10.69	122.19	128.60
85	5	787	G	C2-N3-C4	-10.69	106.56	111.90
85	5	869	G	C5-C6-N1	10.69	116.85	111.50
85	5	2764	C	OP1-P-OP2	-10.69	103.56	119.60
37	3	53	U	C4-C5-C6	10.69	126.11	119.70
85	5	672	A	C8-N9-C4	-10.69	101.52	105.80
85	5	281	G	OP1-P-OP2	-10.69	103.57	119.60
85	5	2195	C	C5-C4-N4	10.69	127.68	120.20
1	2	1183	G	N1-C6-O6	10.69	126.31	119.90
36	1	379	C	C6-N1-C2	10.69	124.57	120.30
36	1	1173	U	N3-C2-O2	-10.69	114.72	122.20
36	1	2759	U	N3-C4-C5	-10.69	108.19	114.60
85	5	1849	C	N3-C2-O2	-10.69	114.42	121.90
85	5	2993	G	C5-C6-O6	-10.69	122.19	128.60
38	8	125	U	C4-C5-C6	-10.69	113.29	119.70
36	1	63	A	C5-C6-N6	-10.68	115.15	123.70
36	1	2141	U	C5-C4-O4	10.68	132.31	125.90
36	1	2169	G	N3-C4-N9	10.68	132.41	126.00
36	1	3130	A	C6-N1-C2	-10.68	112.19	118.60
80	6	317	C	N3-C4-N4	10.68	125.48	118.00
85	5	1467	A	C5-N7-C8	10.68	109.24	103.90
85	5	2638	C	N1-C2-O2	-10.68	112.49	118.90
85	5	3234	A	C8-N9-C4	10.68	110.07	105.80
36	1	3182	G	N1-C2-N3	10.68	130.31	123.90
80	6	1423	U	C5-C6-N1	-10.68	117.36	122.70
85	5	270	U	C5-C4-O4	-10.68	119.49	125.90
85	5	1837	U	N3-C4-O4	10.68	126.88	119.40
38	8	155	A	C2-N3-C4	10.68	115.94	110.60
1	2	1724	U	C4-C5-C6	10.68	126.11	119.70
36	1	198	A	N7-C8-N9	10.68	119.14	113.80
85	5	1017	C	N1-C2-O2	10.68	125.31	118.90
1	2	1100	U	N3-C4-O4	10.68	126.88	119.40
36	1	1185	C	C6-N1-C2	10.68	124.57	120.30
36	1	2995	A	O5'-P-OP1	10.68	123.51	110.70
37	7	46	A	N9-C4-C5	10.68	110.07	105.80
36	1	610	G	N3-C4-N9	-10.68	119.59	126.00
36	1	281	G	C8-N9-C4	-10.68	102.13	106.40
36	1	315	C	C4-C5-C6	-10.68	112.06	117.40
36	1	1480	G	C4-C5-N7	10.68	115.07	110.80
36	1	1375	G	C5-C6-O6	10.68	135.00	128.60
36	1	2896	A	N1-C2-N3	10.68	134.64	129.30
80	6	1750	A	N7-C8-N9	-10.68	108.46	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1151	U	N3-C4-O4	10.68	126.87	119.40
85	5	402	A	N3-C4-C5	-10.68	119.33	126.80
36	1	312	C	N3-C4-C5	-10.67	117.63	121.90
38	4	111	A	N1-C2-N3	10.67	134.64	129.30
80	6	33	U	C4-C5-C6	10.67	126.10	119.70
85	5	3239	G	C4-C5-C6	-10.67	112.40	118.80
85	5	3062	G	C8-N9-C4	-10.67	102.13	106.40
36	1	676	G	C4-C5-C6	10.67	125.20	118.80
36	1	2651	G	O5'-P-OP1	-10.67	96.10	105.70
80	6	317	C	N1-C2-O2	-10.67	112.50	118.90
80	6	1678	A	O5'-P-OP2	-10.67	96.10	105.70
85	5	2977	G	N1-C6-O6	-10.67	113.50	119.90
36	1	697	A	C2-N3-C4	-10.67	105.27	110.60
85	5	48	A	O5'-P-OP1	-10.67	96.10	105.70
36	1	131	C	N3-C2-O2	-10.67	114.43	121.90
85	5	2398	A	O5'-P-OP1	-10.67	96.10	105.70
36	1	1372	C	C2-N3-C4	-10.67	114.57	119.90
36	1	2645	G	N3-C2-N2	-10.67	112.43	119.90
80	6	1675	C	N3-C4-N4	10.67	125.47	118.00
85	5	1375	G	C4-C5-C6	10.67	125.20	118.80
85	5	1440	G	C2-N3-C4	-10.67	106.57	111.90
85	5	2873	U	O5'-P-OP2	10.67	123.50	110.70
85	5	2333	C	N1-C2-O2	-10.67	112.50	118.90
1	2	420	A	C6-N1-C2	-10.66	112.20	118.60
36	1	255	A	O5'-P-OP1	10.66	123.50	110.70
85	5	284	A	OP2-P-O3'	10.66	128.66	105.20
85	5	556	U	O5'-P-OP1	-10.66	96.10	105.70
85	5	1143	A	C2-N3-C4	-10.66	105.27	110.60
36	1	2699	G	N9-C4-C5	-10.66	101.14	105.40
36	1	2986	U	C6-N1-C2	-10.66	114.60	121.00
80	6	451	A	C2-N3-C4	-10.66	105.27	110.60
85	5	1067	U	N1-C2-O2	-10.66	115.34	122.80
85	5	1887	A	N1-C6-N6	10.66	125.00	118.60
85	5	2240	G	C8-N9-C4	10.66	110.66	106.40
85	5	3074	G	C5-C6-N1	10.66	116.83	111.50
37	7	117	A	C2-N3-C4	-10.66	105.27	110.60
38	4	95	G	N1-C6-O6	10.66	126.30	119.90
85	5	186	U	OP1-P-OP2	-10.66	103.61	119.60
85	5	2731	U	C6-N1-C2	-10.66	114.61	121.00
85	5	2833	A	N1-C2-N3	10.66	134.63	129.30
36	1	818	C	N3-C4-C5	-10.66	117.64	121.90
85	5	281	G	N3-C2-N2	-10.66	112.44	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	671	U	N1-C2-O2	-10.65	115.34	122.80
37	3	120	C	N1-C2-O2	10.65	125.29	118.90
36	1	797	U	C5-C4-O4	-10.65	119.51	125.90
36	1	2201	G	C4-C5-N7	10.65	115.06	110.80
80	6	377	G	N1-C2-N2	-10.65	106.61	116.20
85	5	2692	A	N1-C2-N3	10.65	134.63	129.30
85	5	213	A	N3-C4-C5	-10.65	119.34	126.80
85	5	304	G	C8-N9-C4	-10.65	102.14	106.40
85	5	855	U	N3-C4-O4	10.65	126.86	119.40
1	2	1099	A	N1-C6-N6	10.65	124.99	118.60
36	1	906	A	C5-C6-N1	10.65	123.03	117.70
36	1	1322	U	C4-C5-C6	10.65	126.09	119.70
85	5	1110	U	N1-C2-O2	10.65	130.26	122.80
85	5	2295	A	C8-N9-C4	-10.65	101.54	105.80
85	5	2421	U	C2-N3-C4	-10.65	120.61	127.00
36	1	1636	U	N1-C2-O2	-10.65	115.35	122.80
38	4	15	G	C5-C6-N1	10.65	116.83	111.50
80	6	1030	A	C2-N3-C4	-10.65	105.28	110.60
80	6	1100	G	N1-C2-N2	-10.65	106.62	116.20
80	6	1137	A	C8-N9-C4	10.65	110.06	105.80
1	2	1092	G	C5-C6-N1	-10.65	106.18	111.50
1	2	1492	C	C6-N1-C2	-10.65	116.04	120.30
1	2	1652	U	C5-C6-N1	10.65	128.02	122.70
36	1	225	C	O5'-P-OP1	-10.65	96.12	105.70
36	1	1126	G	C6-C5-N7	-10.65	124.01	130.40
80	6	1663	G	C5-C6-N1	-10.65	106.18	111.50
85	5	704	U	N3-C4-O4	10.65	126.85	119.40
85	5	2871	G	N1-C6-O6	-10.65	113.51	119.90
85	5	2879	C	N1-C2-O2	-10.65	112.51	118.90
85	5	727	G	O5'-P-OP1	-10.65	96.12	105.70
36	1	2180	G	C2-N3-C4	-10.64	106.58	111.90
1	2	328	A	N1-C6-N6	10.64	124.99	118.60
85	5	1697	A	C2-N3-C4	-10.64	105.28	110.60
85	5	1928	G	C4-C5-N7	10.64	115.06	110.80
36	1	2622	C	N3-C4-C5	-10.64	117.64	121.90
85	5	1910	A	C2-N3-C4	-10.64	105.28	110.60
85	5	2354	C	N3-C2-O2	10.64	129.35	121.90
80	6	1109	G	C5-C6-N1	10.64	116.82	111.50
85	5	2848	G	C5-C6-O6	10.64	134.99	128.60
85	5	3093	C	C6-N1-C2	10.64	124.56	120.30
36	1	981	U	O5'-P-OP2	-10.64	96.13	105.70
36	1	2746	A	N1-C2-N3	10.64	134.62	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3138	U	N3-C2-O2	10.64	129.65	122.20
85	5	224	C	N1-C2-O2	10.64	125.28	118.90
85	5	1915	A	C6-N1-C2	-10.64	112.22	118.60
85	5	2551	U	N3-C4-C5	10.64	120.98	114.60
85	5	635	G	N1-C2-N2	10.64	125.77	116.20
85	5	2121	G	C8-N9-C4	10.64	110.66	106.40
85	5	2935	U	N1-C2-O2	-10.64	115.35	122.80
85	5	3175	U	N1-C2-N3	10.64	121.28	114.90
38	8	131	A	N1-C6-N6	-10.64	112.22	118.60
36	1	979	U	N3-C2-O2	-10.63	114.76	122.20
36	1	2699	G	O5'-P-OP1	-10.63	96.13	105.70
85	5	686	G	N1-C2-N3	10.64	130.28	123.90
85	5	2199	G	C4-C5-N7	10.64	115.05	110.80
85	5	2924	U	N1-C2-N3	10.64	121.28	114.90
85	5	2509	U	N3-C2-O2	-10.63	114.76	122.20
1	2	1010	A	C5-C6-N6	-10.63	115.19	123.70
36	1	1193	A	C5-N7-C8	-10.63	98.58	103.90
38	4	36	G	N3-C2-N2	-10.63	112.46	119.90
80	6	678	A	C4-C5-N7	10.63	116.02	110.70
85	5	811	U	C2-N3-C4	-10.63	120.62	127.00
85	5	925	A	N1-C6-N6	10.63	124.98	118.60
85	5	1662	G	C5-N7-C8	10.63	109.61	104.30
85	5	1938	U	O5'-P-OP2	-10.63	96.13	105.70
85	5	2301	U	N1-C2-O2	-10.63	115.36	122.80
85	5	2709	C	N3-C2-O2	10.63	129.34	121.90
85	5	2966	G	C5-C6-O6	-10.63	122.22	128.60
85	5	2994	A	N3-C4-C5	-10.63	119.36	126.80
85	5	3104	U	C6-N1-C2	10.63	127.38	121.00
36	1	1331	U	O5'-P-OP2	-10.63	96.13	105.70
36	1	2347	U	O5'-P-OP2	-10.63	96.13	105.70
80	6	1585	U	C5-C6-N1	-10.63	117.39	122.70
85	5	2374	C	C5-C6-N1	-10.63	115.69	121.00
37	7	88	G	N3-C4-C5	-10.63	123.29	128.60
37	7	96	U	N1-C2-O2	-10.63	115.36	122.80
38	4	146	U	N3-C2-O2	10.63	129.64	122.20
36	1	2127	U	N1-C2-N3	10.62	121.28	114.90
36	1	2411	U	N1-C2-N3	10.62	121.28	114.90
85	5	600	G	C4-C5-C6	10.62	125.17	118.80
85	5	2356	A	C4-C5-N7	10.63	116.01	110.70
85	5	3131	U	C5-C4-O4	-10.63	119.52	125.90
85	5	1895	A	N1-C6-N6	10.62	124.97	118.60
36	1	967	A	C5-C6-N6	10.62	132.20	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1121	U	C5-C6-N1	-10.62	117.39	122.70
36	1	1549	U	OP1-P-OP2	10.62	135.53	119.60
1	2	1448	C	N3-C2-O2	-10.62	114.47	121.90
80	6	652	G	C8-N9-C4	-10.62	102.15	106.40
85	5	1351	U	O5'-P-OP2	-10.62	96.14	105.70
85	5	979	U	O5'-P-OP1	10.62	123.45	110.70
85	5	2954	U	C5-C6-N1	-10.62	117.39	122.70
38	8	70	G	N1-C2-N3	10.62	130.27	123.90
1	2	455	C	C6-N1-C2	10.62	124.55	120.30
36	1	1520	G	O5'-P-OP2	10.62	123.44	110.70
36	1	1899	G	C8-N9-C4	-10.62	102.15	106.40
80	6	1104	U	C5-C6-N1	10.62	128.01	122.70
85	5	554	A	N1-C6-N6	10.62	124.97	118.60
85	5	1075	A	C8-N9-C4	10.62	110.05	105.80
85	5	2880	U	C5-C4-O4	10.62	132.27	125.90
1	2	448	C	N3-C4-C5	-10.62	117.65	121.90
36	1	268	A	N9-C4-C5	10.62	110.05	105.80
36	1	328	U	N3-C2-O2	-10.62	114.77	122.20
36	1	1612	A	C4-C5-C6	10.62	122.31	117.00
80	6	1284	C	C5-C6-N1	-10.62	115.69	121.00
36	1	2384	A	C8-N9-C4	-10.62	101.55	105.80
85	5	388	G	OP1-P-OP2	-10.62	103.67	119.60
85	5	3340	G	C5-C6-N1	10.62	116.81	111.50
36	1	17	G	C5-N7-C8	-10.61	98.99	104.30
36	1	1050	U	O5'-P-OP1	-10.62	96.15	105.70
80	6	1650	U	C5-C4-O4	-10.62	119.53	125.90
85	5	865	U	O5'-P-OP2	10.62	123.44	110.70
36	1	79	U	C2-N3-C4	-10.61	120.63	127.00
36	1	1933	A	C8-N9-C4	-10.61	101.56	105.80
80	6	464	A	C5-C6-N1	-10.61	112.39	117.70
85	5	713	U	N3-C4-O4	10.61	126.83	119.40
85	5	3198	U	O5'-P-OP2	-10.61	96.15	105.70
85	5	1463	U	C5-C4-O4	10.61	132.27	125.90
36	1	802	C	N1-C2-N3	10.61	126.63	119.20
36	1	1789	G	N9-C4-C5	-10.61	101.16	105.40
36	1	343	U	C5-C6-N1	-10.61	117.40	122.70
36	1	757	C	N1-C2-O2	-10.61	112.53	118.90
36	1	1002	A	C4-C5-N7	10.61	116.00	110.70
36	1	2824	G	N3-C4-N9	-10.61	119.63	126.00
80	6	1565	C	N3-C4-C5	10.61	126.14	121.90
85	5	2774	C	N3-C2-O2	-10.61	114.47	121.90
36	1	17	G	N1-C6-O6	10.61	126.26	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1802	C	C2-N3-C4	-10.61	114.60	119.90
80	6	173	A	N1-C6-N6	10.60	124.96	118.60
1	2	386	G	N1-C6-O6	-10.60	113.54	119.90
36	1	1375	G	C4-C5-N7	-10.60	106.56	110.80
36	1	2835	U	C4-C5-C6	10.60	126.06	119.70
85	5	1131	G	N1-C2-N2	10.60	125.74	116.20
85	5	3133	C	C5-C6-N1	10.60	126.30	121.00
36	1	1818	U	N3-C2-O2	10.60	129.62	122.20
36	1	1852	G	C2-N3-C4	-10.60	106.60	111.90
36	1	1899	G	N3-C4-C5	-10.60	123.30	128.60
36	1	1906	G	C2-N3-C4	-10.60	106.60	111.90
36	1	2151	C	C6-N1-C2	-10.60	116.06	120.30
36	1	2341	A	C6-N1-C2	-10.60	112.24	118.60
36	1	2670	G	C4-C5-N7	10.60	115.04	110.80
37	3	109	G	C5-C6-O6	-10.60	122.24	128.60
85	5	2653	C	N3-C2-O2	10.60	129.32	121.90
85	5	3139	A	N1-C2-N3	10.60	134.60	129.30
85	5	2145	A	C5-N7-C8	-10.60	98.60	103.90
1	2	1461	G	C8-N9-C4	-10.60	102.16	106.40
36	1	1886	A	C8-N9-C4	-10.60	101.56	105.80
36	1	2165	G	C5-C6-N1	-10.60	106.20	111.50
36	1	3306	U	N3-C4-C5	10.60	120.96	114.60
36	1	2727	A	O5'-P-OP2	-10.60	96.16	105.70
80	6	677	G	C8-N9-C4	10.60	110.64	106.40
80	6	726	C	C6-N1-C2	-10.60	116.06	120.30
85	5	2420	C	N1-C2-O2	-10.60	112.54	118.90
85	5	2858	U	O5'-P-OP1	10.60	123.41	110.70
36	1	1698	C	C6-N1-C2	-10.59	116.06	120.30
36	1	2609	A	N1-C2-N3	10.59	134.60	129.30
85	5	303	G	C8-N9-C4	-10.59	102.16	106.40
85	5	3124	G	C2-N3-C4	-10.59	106.60	111.90
80	6	546	U	N1-C2-O2	-10.59	115.39	122.80
36	1	268	A	N1-C2-N3	10.59	134.59	129.30
85	5	54	C	N1-C2-O2	-10.59	112.55	118.90
85	5	704	U	N3-C4-C5	-10.59	108.25	114.60
85	5	1290	A	C2-N3-C4	-10.59	105.31	110.60
85	5	2791	G	N1-C2-N3	10.59	130.25	123.90
85	5	3022	G	N1-C6-O6	-10.59	113.55	119.90
85	5	3105	U	C5-C4-O4	10.59	132.25	125.90
1	2	195	G	N1-C6-O6	-10.59	113.55	119.90
36	1	758	C	C6-N1-C2	-10.59	116.06	120.30
80	6	1740	A	O5'-P-OP1	10.59	123.40	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	822	G	N3-C2-N2	-10.59	112.49	119.90
85	5	2161	G	N3-C4-C5	-10.59	123.31	128.60
80	6	1784	C	N3-C4-C5	10.59	126.13	121.90
85	5	1503	A	C8-N9-C4	10.59	110.03	105.80
36	1	198	A	C5-N7-C8	-10.58	98.61	103.90
36	1	1107	C	N3-C4-C5	-10.58	117.67	121.90
36	1	2369	G	N3-C4-C5	-10.58	123.31	128.60
38	8	3	A	N1-C2-N3	-10.58	124.01	129.30
85	5	291	C	C2-N3-C4	-10.58	114.61	119.90
85	5	721	G	C5-C6-N1	-10.58	106.21	111.50
85	5	3316	A	C5-C6-N1	-10.58	112.41	117.70
85	5	920	A	C4-C5-N7	10.58	115.99	110.70
85	5	1426	C	N3-C2-O2	10.58	129.31	121.90
36	1	299	G	C4-C5-N7	10.58	115.03	110.80
36	1	1400	G	N1-C2-N3	10.58	130.25	123.90
36	1	2669	G	C2-N3-C4	-10.58	106.61	111.90
85	5	98	G	C4-C5-N7	10.58	115.03	110.80
1	2	785	G	C8-N9-C4	-10.58	102.17	106.40
80	6	35	U	N1-C2-N3	10.58	121.25	114.90
85	5	654	C	N1-C2-O2	-10.58	112.55	118.90
85	5	657	A	O5'-P-OP1	10.58	123.40	110.70
85	5	3173	G	N1-C2-N2	-10.58	106.68	116.20
85	5	960	U	N3-C4-O4	10.58	126.81	119.40
36	1	1202	A	C5-C6-N6	-10.58	115.24	123.70
36	1	1512	U	N1-C2-N3	10.58	121.25	114.90
38	4	140	G	N1-C6-O6	10.58	126.25	119.90
36	1	1869	C	N3-C4-C5	-10.57	117.67	121.90
36	1	1609	C	N1-C2-O2	-10.57	112.56	118.90
38	4	7	U	C4-C5-C6	10.57	126.04	119.70
85	5	1295	G	C5-C6-O6	10.57	134.94	128.60
85	5	1444	G	C6-C5-N7	-10.57	124.06	130.40
37	7	75	G	N1-C6-O6	10.57	126.24	119.90
38	8	20	U	C5-C4-O4	-10.57	119.56	125.90
36	1	648	C	N1-C2-O2	-10.57	112.56	118.90
36	1	2134	G	C5-C6-N1	10.57	116.79	111.50
36	1	2243	A	C6-N1-C2	-10.57	112.26	118.60
80	6	1645	G	C4-C5-N7	10.57	115.03	110.80
85	5	220	G	N3-C2-N2	10.57	127.30	119.90
85	5	1293	U	C4-C5-C6	10.57	126.04	119.70
36	1	311	C	N3-C4-C5	-10.57	117.67	121.90
36	1	2584	G	C2-N3-C4	-10.57	106.61	111.90
80	6	570	A	C8-N9-C4	-10.57	101.57	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1550	A	C5-N7-C8	-10.57	98.61	103.90
85	5	1485	G	OP1-P-OP2	-10.57	103.75	119.60
85	5	2894	C	C4-C5-C6	10.57	122.68	117.40
1	2	25	C	C6-N1-C2	10.57	124.53	120.30
36	1	1398	U	N3-C4-C5	-10.57	108.26	114.60
36	1	2956	A	N1-C2-N3	10.57	134.58	129.30
85	5	1317	A	C5-C6-N6	-10.57	115.25	123.70
85	5	1356	U	N1-C2-N3	-10.57	108.56	114.90
85	5	1838	G	C4-C5-N7	10.57	115.03	110.80
1	2	849	G	C5-C6-N1	10.56	116.78	111.50
36	1	21	G	N1-C2-N3	10.56	130.24	123.90
36	1	1804	A	C2-N3-C4	-10.56	105.32	110.60
36	1	3301	U	N3-C2-O2	-10.56	114.81	122.20
38	4	84	C	C4-C5-C6	10.56	122.68	117.40
85	5	339	C	N1-C2-O2	-10.56	112.56	118.90
85	5	2187	G	C5-N7-C8	-10.56	99.02	104.30
1	2	92	A	N7-C8-N9	-10.56	108.52	113.80
36	1	940	G	C2-N3-C4	10.56	117.18	111.90
85	5	494	G	C5-C6-O6	-10.56	122.26	128.60
85	5	3000	A	C5-C6-N6	-10.56	115.25	123.70
36	1	1372	C	N1-C2-O2	-10.56	112.56	118.90
1	2	1727	A	C2-N3-C4	-10.56	105.32	110.60
36	1	981	U	N3-C4-C5	-10.56	108.27	114.60
36	1	3367	C	C2-N3-C4	-10.56	114.62	119.90
80	6	1720	G	C5-C6-O6	-10.56	122.27	128.60
85	5	1849	C	N1-C2-N3	10.56	126.59	119.20
36	1	2615	G	O5'-P-OP2	-10.56	96.20	105.70
85	5	78	U	N3-C2-O2	-10.56	114.81	122.20
85	5	1449	A	C5-C6-N1	10.56	122.98	117.70
36	1	241	G	C5-C6-O6	-10.55	122.27	128.60
36	1	1107	C	C4-C5-C6	10.55	122.68	117.40
80	6	992	A	C5-C6-N1	10.55	122.98	117.70
85	5	908	G	C5-N7-C8	-10.55	99.02	104.30
85	5	1855	U	N1-C2-N3	10.55	121.23	114.90
36	1	1796	G	C6-C5-N7	-10.55	124.07	130.40
85	5	1369	A	C5-C6-N1	-10.55	112.42	117.70
36	1	3041	U	N1-C2-O2	-10.55	115.42	122.80
85	5	344	A	C8-N9-C4	-10.55	101.58	105.80
85	5	681	U	O5'-P-OP2	-10.55	96.20	105.70
85	5	782	U	N3-C4-C5	-10.55	108.27	114.60
85	5	1500	G	N1-C2-N3	10.55	130.23	123.90
85	5	1769	G	O5'-P-OP2	10.55	123.36	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	522	A	C2-N3-C4	-10.55	105.33	110.60
36	1	269	G	N3-C4-C5	10.55	133.87	128.60
36	1	1748	G	N1-C2-N3	10.55	130.23	123.90
37	3	2	G	N1-C2-N3	10.55	130.23	123.90
80	6	713	A	C8-N9-C4	-10.55	101.58	105.80
85	5	1017	C	C2-N3-C4	10.55	125.17	119.90
85	5	1130	A	C6-N1-C2	-10.55	112.27	118.60
36	1	1407	A	C5-C6-N1	10.55	122.97	117.70
1	2	157	A	O5'-P-OP2	-10.54	96.21	105.70
1	2	1224	G	N7-C8-N9	10.54	118.37	113.10
80	6	1549	C	N3-C4-C5	-10.54	117.68	121.90
85	5	798	G	C4-C5-N7	10.54	115.02	110.80
85	5	1382	G	C5-N7-C8	-10.55	99.03	104.30
85	5	3177	G	C5-C6-N1	-10.54	106.23	111.50
1	2	868	G	C5-C6-N1	-10.54	106.23	111.50
1	2	1018	G	N1-C6-O6	-10.54	113.58	119.90
36	1	158	G	N1-C2-N3	10.54	130.22	123.90
36	1	828	A	C2-N3-C4	-10.54	105.33	110.60
36	1	2227	C	C4-C5-C6	10.54	122.67	117.40
36	1	3145	C	N1-C2-O2	-10.54	112.58	118.90
80	6	390	G	C5-C6-O6	-10.54	122.28	128.60
85	5	809	G	C6-C5-N7	-10.54	124.08	130.40
36	1	2601	A	C5-N7-C8	10.54	109.17	103.90
38	4	61	A	C5-C6-N6	-10.54	115.27	123.70
80	6	1662	G	C5-C6-N1	-10.54	106.23	111.50
85	5	799	G	C2-N3-C4	10.54	117.17	111.90
85	5	865	U	N1-C2-O2	-10.54	115.42	122.80
36	1	684	G	C5-N7-C8	-10.54	99.03	104.30
36	1	907	G	N7-C8-N9	-10.54	107.83	113.10
36	1	1670	C	C2-N3-C4	-10.54	114.63	119.90
85	5	1093	A	O5'-P-OP2	-10.54	96.22	105.70
85	5	2381	G	C4-C5-C6	10.54	125.12	118.80
85	5	2922	G	N1-C6-O6	10.54	126.22	119.90
36	1	2607	G	N3-C4-C5	10.53	133.87	128.60
36	1	2632	G	C6-N1-C2	-10.53	118.78	125.10
85	5	430	U	N1-C2-O2	-10.53	115.43	122.80
85	5	590	G	C4-C5-N7	10.53	115.01	110.80
85	5	616	G	N1-C6-O6	10.53	126.22	119.90
36	1	2186	U	O5'-P-OP1	10.53	123.34	110.70
85	5	3273	A	C8-N9-C4	-10.53	101.59	105.80
80	6	1091	A	OP1-P-O3'	10.53	128.37	105.20
85	5	30	G	N1-C2-N2	-10.53	106.72	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1316	C	C6-N1-C2	-10.53	116.09	120.30
85	5	2177	G	C4-C5-C6	10.53	125.12	118.80
85	5	2338	C	C6-N1-C2	10.53	124.51	120.30
38	8	103	G	N1-C6-O6	10.53	126.22	119.90
36	1	588	G	N1-C6-O6	-10.53	113.58	119.90
36	1	947	G	N1-C2-N3	10.53	130.22	123.90
36	1	1656	A	N7-C8-N9	-10.53	108.53	113.80
36	1	2192	C	N1-C2-N3	10.53	126.57	119.20
85	5	982	C	C4-C5-C6	-10.53	112.14	117.40
85	5	1184	A	N1-C6-N6	-10.53	112.28	118.60
85	5	2616	C	N3-C2-O2	10.53	129.27	121.90
36	1	1529	A	C8-N9-C4	-10.53	101.59	105.80
36	1	2244	A	N7-C8-N9	-10.53	108.54	113.80
85	5	39	A	C6-N1-C2	-10.53	112.28	118.60
85	5	1727	G	N1-C2-N2	-10.53	106.73	116.20
80	6	984	G	N3-C2-N2	-10.53	112.53	119.90
36	1	1548	C	C5-C6-N1	10.52	126.26	121.00
36	1	2169	G	C2-N3-C4	10.52	117.16	111.90
36	1	2369	G	N1-C6-O6	-10.52	113.59	119.90
85	5	89	A	C5-C6-N1	-10.52	112.44	117.70
36	1	989	A	N9-C4-C5	-10.52	101.59	105.80
85	5	582	G	C4-C5-C6	10.52	125.11	118.80
85	5	948	C	N1-C2-O2	-10.52	112.58	118.90
85	5	2292	U	N3-C4-C5	-10.52	108.29	114.60
36	1	1131	G	OP1-P-OP2	10.52	135.38	119.60
85	5	596	C	N3-C4-C5	-10.52	117.69	121.90
85	5	921	A	N3-C4-C5	-10.52	119.43	126.80
85	5	718	G	N7-C8-N9	10.52	118.36	113.10
85	5	2715	A	N7-C8-N9	10.52	119.06	113.80
85	5	2936	A	C2-N3-C4	10.52	115.86	110.60
85	5	1935	G	OP1-P-OP2	-10.52	103.82	119.60
85	5	2954	U	N3-C4-O4	-10.52	112.04	119.40
85	5	3309	G	N7-C8-N9	10.52	118.36	113.10
36	1	1134	G	O5'-P-OP1	-10.52	96.23	105.70
80	6	783	G	C5-C6-N1	10.52	116.76	111.50
36	1	1659	U	N3-C4-C5	-10.52	108.29	114.60
36	1	1877	U	N1-C2-N3	10.52	121.21	114.90
36	1	3191	G	C2-N3-C4	-10.52	106.64	111.90
85	5	9	U	N3-C2-O2	10.52	129.56	122.20
85	5	2643	A	C4-C5-N7	10.52	115.96	110.70
85	5	639	G	N3-C4-C5	10.51	133.86	128.60
85	5	644	G	N1-C2-N3	10.51	130.21	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1754	G	C8-N9-C4	-10.51	102.19	106.40
62	n6	13	ARG	NE-CZ-NH1	10.51	125.56	120.30
36	1	2295	A	C5-N7-C8	-10.51	98.64	103.90
80	6	45	U	N3-C2-O2	-10.51	114.84	122.20
36	1	25	U	N3-C2-O2	10.51	129.56	122.20
1	2	1283	A	C5-C6-N6	10.51	132.10	123.70
36	1	2983	C	N3-C4-N4	-10.51	110.64	118.00
36	1	3049	A	C8-N9-C4	10.51	110.00	105.80
36	1	3297	U	N1-C2-O2	-10.51	115.44	122.80
85	5	898	U	C2-N3-C4	10.51	133.30	127.00
85	5	2656	A	C6-C5-N7	-10.51	124.95	132.30
1	2	961	A	N1-C2-N3	10.50	134.55	129.30
36	1	365	A	N1-C2-N3	10.50	134.55	129.30
36	1	604	G	C8-N9-C4	-10.50	102.20	106.40
36	1	2784	G	C8-N9-C4	10.50	110.60	106.40
47	M0	120	GLY	C-N-CA	10.50	147.96	121.70
36	1	1208	U	N1-C2-O2	10.50	130.15	122.80
38	4	84	C	C2-N3-C4	-10.50	114.65	119.90
85	5	1327	C	C5-C4-N4	-10.50	112.85	120.20
85	5	1466	G	C4-C5-C6	10.50	125.10	118.80
85	5	2800	G	C5-C6-N1	10.50	116.75	111.50
36	1	1948	G	N1-C6-O6	10.50	126.20	119.90
85	5	383	G	N1-C6-O6	10.50	126.20	119.90
85	5	2186	U	O5'-P-OP2	-10.50	96.25	105.70
85	5	2747	A	C6-N1-C2	-10.50	112.30	118.60
36	1	1499	C	O5'-P-OP2	-10.50	96.25	105.70
80	6	907	A	C8-N9-C4	-10.50	101.60	105.80
80	6	1155	G	C4-C5-C6	-10.50	112.50	118.80
85	5	1142	G	N3-C2-N2	-10.50	112.55	119.90
85	5	2414	G	N3-C4-C5	10.50	133.85	128.60
85	5	3135	U	N1-C2-N3	10.50	121.20	114.90
36	1	499	G	N3-C2-N2	-10.49	112.56	119.90
36	1	1548	C	N1-C2-O2	-10.49	112.60	118.90
80	6	926	A	C5-N7-C8	-10.49	98.65	103.90
85	5	258	G	N1-C6-O6	10.49	126.20	119.90
85	5	1064	A	OP1-P-OP2	10.49	135.34	119.60
85	5	1804	A	C4-C5-C6	10.49	122.25	117.00
36	1	596	C	C4-C5-C6	10.49	122.65	117.40
36	1	1460	A	OP1-P-OP2	-10.49	103.86	119.60
36	1	1675	G	C5-C6-N1	10.49	116.75	111.50
85	5	1919	G	N1-C6-O6	10.49	126.19	119.90
85	5	2171	G	N1-C6-O6	-10.49	113.60	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2972	G	C4-C5-N7	10.49	115.00	110.80
1	2	752	A	N1-C6-N6	-10.49	112.31	118.60
36	1	1386	A	C6-N1-C2	-10.49	112.31	118.60
36	1	1855	U	N3-C2-O2	-10.49	114.86	122.20
80	6	314	C	C6-N1-C2	-10.49	116.10	120.30
85	5	1184	A	N7-C8-N9	-10.49	108.56	113.80
85	5	3135	U	N3-C4-O4	-10.49	112.06	119.40
38	4	107	G	N7-C8-N9	-10.49	107.86	113.10
85	5	420	G	C5-N7-C8	10.49	109.54	104.30
85	5	794	U	O5'-P-OP2	-10.49	96.26	105.70
85	5	1467	A	N7-C8-N9	-10.49	108.56	113.80
1	2	9	U	O5'-P-OP1	-10.48	96.26	105.70
1	2	86	A	C5-C6-N1	-10.48	112.46	117.70
1	2	857	C	C6-N1-C2	-10.48	116.11	120.30
36	1	591	G	N1-C6-O6	10.48	126.19	119.90
85	5	417	A	O5'-P-OP1	10.48	123.28	110.70
36	1	1157	G	N3-C2-N2	-10.48	112.56	119.90
36	1	2399	A	C5-C6-N6	-10.48	115.31	123.70
85	5	2273	G	C2-N3-C4	-10.48	106.66	111.90
36	1	2139	A	C5-C6-N6	10.48	132.09	123.70
80	6	818	C	C5-C6-N1	10.48	126.24	121.00
36	1	820	A	C5-C6-N1	10.48	122.94	117.70
36	1	1210	U	O5'-P-OP2	-10.48	96.27	105.70
36	1	2400	G	C5-C6-N1	10.48	116.74	111.50
80	6	591	A	C5-C6-N1	10.48	122.94	117.70
85	5	1303	A	C2-N3-C4	-10.48	105.36	110.60
85	5	1415	U	C6-N1-C2	-10.48	114.71	121.00
36	1	2748	A	N1-C6-N6	10.48	124.89	118.60
36	1	3005	A	C5-N7-C8	-10.48	98.66	103.90
85	5	530	G	C6-N1-C2	-10.48	118.81	125.10
85	5	1733	G	C2-N3-C4	-10.48	106.66	111.90
85	5	2400	G	C5-C6-O6	-10.48	122.31	128.60
1	2	1711	A	C2-N3-C4	-10.47	105.36	110.60
36	1	515	C	C5-C6-N1	10.47	126.24	121.00
36	1	2613	U	N1-C2-N3	10.47	121.19	114.90
80	6	404	G	C5-C6-O6	10.47	134.88	128.60
80	6	1110	G	C5-C6-O6	10.47	134.88	128.60
36	1	1585	C	C5-C4-N4	-10.47	112.87	120.20
36	1	2387	A	N9-C4-C5	-10.47	101.61	105.80
36	1	2645	G	C2-N3-C4	-10.47	106.66	111.90
1	2	821	G	N1-C6-O6	10.47	126.18	119.90
36	1	325	A	C2-N3-C4	10.47	115.83	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	657	A	O5'-P-OP2	10.47	123.26	110.70
36	1	706	A	N1-C2-N3	10.47	134.54	129.30
36	1	1919	G	C6-C5-N7	-10.47	124.12	130.40
85	5	837	A	C8-N9-C4	10.47	109.99	105.80
36	1	2146	C	N1-C2-O2	-10.47	112.62	118.90
36	1	2198	A	N9-C4-C5	10.47	109.99	105.80
36	1	2777	G	C5-C6-O6	10.47	134.88	128.60
38	4	31	G	C5-N7-C8	-10.47	99.07	104.30
85	5	2283	G	N9-C4-C5	-10.47	101.21	105.40
85	5	3388	C	C2-N3-C4	-10.47	114.67	119.90
38	8	70	G	C4-C5-N7	-10.47	106.61	110.80
36	1	711	A	N1-C6-N6	-10.46	112.32	118.60
36	1	1013	G	N1-C6-O6	10.46	126.18	119.90
36	1	1933	A	N1-C6-N6	10.47	124.88	118.60
36	1	2173	U	N1-C2-O2	-10.46	115.47	122.80
80	6	1107	G	O5'-P-OP1	10.46	123.26	110.70
85	5	2794	G	C4-C5-N7	10.47	114.99	110.80
36	1	178	U	C5-C4-O4	10.46	132.18	125.90
36	1	797	U	N3-C4-O4	10.46	126.72	119.40
37	3	8	G	C4-C5-N7	10.46	114.98	110.80
85	5	3095	U	N1-C2-N3	10.46	121.18	114.90
36	1	2345	A	C2-N3-C4	-10.46	105.37	110.60
36	1	2907	G	C8-N9-C4	-10.46	102.22	106.40
36	1	2993	G	N1-C6-O6	-10.46	113.62	119.90
85	5	2611	U	O5'-P-OP2	-10.46	96.29	105.70
36	1	1394	A	C8-N9-C4	10.46	109.98	105.80
85	5	423	A	C5-C6-N6	-10.46	115.33	123.70
85	5	508	U	C6-N1-C1'	10.46	135.84	121.20
85	5	2821	C	N3-C4-C5	-10.46	117.72	121.90
1	2	538	A	C8-N9-C4	10.46	109.98	105.80
36	1	924	G	N1-C2-N3	10.46	130.17	123.90
37	3	42	A	N1-C6-N6	10.46	124.88	118.60
36	1	186	U	C6-N1-C2	-10.46	114.73	121.00
36	1	410	U	O5'-P-OP2	10.46	123.25	110.70
85	5	3090	U	N1-C2-O2	-10.46	115.48	122.80
36	1	2151	C	N1-C2-O2	-10.45	112.63	118.90
85	5	2312	A	N9-C4-C5	10.45	109.98	105.80
85	5	2519	A	C8-N9-C4	-10.46	101.62	105.80
36	1	655	C	N3-C4-C5	-10.45	117.72	121.90
80	6	471	A	N1-C2-N3	10.45	134.53	129.30
36	1	417	A	N1-C6-N6	10.45	124.87	118.60
36	1	1004	U	C6-N1-C2	-10.45	114.73	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1201	C	C5-C4-N4	-10.45	112.88	120.20
36	1	3362	A	C5-C6-N1	-10.45	112.47	117.70
85	5	793	C	N3-C4-N4	10.45	125.32	118.00
80	6	543	C	C5-C6-N1	10.45	126.22	121.00
36	1	1115	G	N1-C2-N2	-10.45	106.80	116.20
36	1	2144	A	N1-C6-N6	-10.45	112.33	118.60
36	1	2237	C	C2-N3-C4	-10.45	114.68	119.90
85	5	2310	U	O5'-P-OP1	-10.45	96.30	105.70
85	5	2756	C	O5'-P-OP2	-10.45	96.30	105.70
36	1	653	A	C6-C5-N7	-10.45	124.99	132.30
36	1	3022	G	C5-N7-C8	-10.45	99.08	104.30
36	1	3266	G	N9-C4-C5	10.45	109.58	105.40
85	5	1397	C	C4-C5-C6	10.45	122.62	117.40
38	4	14	C	N3-C2-O2	10.45	129.21	121.90
80	6	885	G	N1-C6-O6	10.45	126.17	119.90
85	5	1403	C	C5-C6-N1	-10.45	115.78	121.00
85	5	3301	U	O5'-P-OP2	-10.45	96.30	105.70
36	1	157	A	C6-N1-C2	-10.44	112.33	118.60
36	1	1412	G	O5'-P-OP1	-10.44	96.30	105.70
80	6	14	C	N1-C2-O2	-10.44	112.64	118.90
80	6	1053	G	C5-N7-C8	-10.44	99.08	104.30
85	5	301	G	C8-N9-C4	10.44	110.58	106.40
85	5	1423	C	C6-N1-C2	-10.44	116.12	120.30
85	5	2652	U	C2-N3-C4	10.44	133.27	127.00
36	1	568	G	C5-C6-N1	-10.44	106.28	111.50
80	6	1720	G	N1-C6-O6	10.44	126.16	119.90
85	5	3128	G	N1-C6-O6	-10.44	113.64	119.90
85	5	3328	G	N1-C6-O6	-10.44	113.64	119.90
85	5	2740	A	C8-N9-C4	-10.44	101.62	105.80
36	1	1683	A	C8-N9-C4	-10.44	101.63	105.80
36	1	2095	G	C8-N9-C4	10.44	110.57	106.40
36	1	2798	C	C6-N1-C2	-10.44	116.13	120.30
85	5	2618	G	C6-N1-C2	-10.44	118.84	125.10
38	8	40	A	N1-C2-N3	10.44	134.52	129.30
38	8	42	G	OP1-P-OP2	-10.44	103.95	119.60
36	1	406	G	C8-N9-C4	-10.43	102.23	106.40
36	1	511	G	C8-N9-C4	-10.43	102.23	106.40
36	1	643	U	O5'-P-OP1	10.43	123.22	110.70
85	5	618	C	C5-C6-N1	-10.43	115.78	121.00
85	5	657	A	N7-C8-N9	10.43	119.02	113.80
85	5	1343	A	N3-C4-C5	10.43	134.10	126.80
36	1	1881	A	C8-N9-C4	10.43	109.97	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2144	A	C2-N3-C4	10.43	115.82	110.60
80	6	1015	U	N3-C4-C5	-10.43	108.34	114.60
85	5	1160	C	C5-C4-N4	10.43	127.50	120.20
85	5	1357	G	N1-C6-O6	-10.43	113.64	119.90
85	5	1429	G	N3-C2-N2	10.43	127.20	119.90
85	5	1512	U	N3-C4-C5	-10.43	108.34	114.60
85	5	2137	U	OP1-P-OP2	-10.43	103.95	119.60
85	5	3350	C	C2-N3-C4	10.43	125.12	119.90
36	1	2788	C	N1-C2-O2	-10.43	112.64	118.90
85	5	496	C	N1-C2-O2	10.43	125.16	118.90
85	5	1434	G	C5-N7-C8	-10.43	99.08	104.30
36	1	2405	C	N3-C4-N4	10.43	125.30	118.00
36	1	2623	G	C4-C5-N7	10.43	114.97	110.80
85	5	215	G	N1-C2-N2	-10.43	106.81	116.20
85	5	872	U	N3-C4-C5	10.43	120.86	114.60
85	5	2904	U	C5-C4-O4	-10.43	119.64	125.90
85	5	3271	G	N3-C4-N9	10.43	132.26	126.00
1	2	1073	C	N3-C4-C5	-10.43	117.73	121.90
85	5	2978	U	OP1-P-O3'	10.43	128.14	105.20
38	8	138	A	N1-C2-N3	10.43	134.51	129.30
85	5	930	U	C6-N1-C2	10.43	127.25	121.00
85	5	1805	C	N3-C4-C5	10.43	126.07	121.90
85	5	2136	C	C4-C5-C6	10.43	122.61	117.40
85	5	2099	A	C2-N3-C4	10.43	115.81	110.60
1	2	22	A	N1-C6-N6	10.42	124.85	118.60
36	1	334	A	O5'-P-OP1	10.42	123.21	110.70
85	5	344	A	N7-C8-N9	10.42	119.01	113.80
80	6	402	C	O5'-P-OP2	-10.42	96.32	105.70
80	6	419	G	C4-C5-C6	-10.42	112.55	118.80
85	5	59	G	C5-C6-O6	-10.42	122.35	128.60
85	5	315	C	O5'-P-OP2	-10.42	96.32	105.70
85	5	270	U	C4-C5-C6	-10.42	113.45	119.70
1	2	359	A	C8-N9-C4	10.42	109.97	105.80
80	6	1490	C	C6-N1-C2	-10.42	116.13	120.30
36	1	1344	G	O5'-P-OP2	-10.42	96.32	105.70
80	6	420	A	N7-C8-N9	10.42	119.01	113.80
80	6	1000	C	C4-C5-C6	10.42	122.61	117.40
80	6	1119	G	C5-N7-C8	-10.42	99.09	104.30
85	5	775	A	C8-N9-C4	-10.42	101.63	105.80
85	5	924	G	N1-C6-O6	-10.42	113.65	119.90
85	5	1348	U	C2-N3-C4	10.42	133.25	127.00
85	5	2888	U	OP1-P-OP2	-10.42	103.97	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2103	U	OP1-P-OP2	10.42	135.22	119.60
80	6	263	C	N3-C2-O2	10.42	129.19	121.90
80	6	768	C	C5-C6-N1	-10.42	115.79	121.00
80	6	1137	A	O5'-P-OP1	10.42	123.20	110.70
85	5	282	G	N1-C2-N2	-10.42	106.83	116.20
85	5	3306	U	O5'-P-OP2	-10.42	96.33	105.70
1	2	420	A	N1-C6-N6	-10.41	112.35	118.60
36	1	2407	C	C5-C4-N4	-10.41	112.91	120.20
36	1	2857	C	O5'-P-OP2	10.41	123.20	110.70
80	6	356	G	C6-N1-C2	-10.41	118.85	125.10
80	6	923	A	C5-C6-N1	-10.41	112.49	117.70
85	5	809	G	C5-C6-O6	-10.41	122.35	128.60
36	1	993	G	C5-C6-N1	10.41	116.71	111.50
36	1	3276	G	N3-C4-C5	10.41	133.81	128.60
80	6	546	U	N3-C2-O2	10.41	129.49	122.20
85	5	2381	G	N1-C2-N3	10.41	130.15	123.90
36	1	251	G	C2-N3-C4	10.41	117.11	111.90
36	1	879	U	N3-C4-C5	10.41	120.85	114.60
36	1	3187	A	C2-N3-C4	10.41	115.81	110.60
85	5	1656	A	C6-N1-C2	-10.41	112.35	118.60
36	1	3259	U	C6-N1-C2	-10.41	114.75	121.00
85	5	2576	G	C5-C6-N1	-10.41	106.30	111.50
36	1	339	C	N1-C2-O2	-10.41	112.66	118.90
36	1	665	A	O5'-P-OP2	-10.41	96.33	105.70
36	1	1738	C	C6-N1-C2	10.41	124.46	120.30
36	1	2714	G	C4-C5-N7	10.41	114.96	110.80
38	4	1	A	N1-C6-N6	10.41	124.84	118.60
85	5	424	G	C5-C6-O6	-10.41	122.36	128.60
85	5	1497	C	C5-C6-N1	10.41	126.20	121.00
85	5	1674	G	O5'-P-OP1	-10.41	96.33	105.70
36	1	432	G	O5'-P-OP1	10.40	123.19	110.70
36	1	2297	U	C5-C4-O4	10.40	132.14	125.90
36	1	2698	G	C8-N9-C4	10.40	110.56	106.40
36	1	2968	G	N7-C8-N9	10.40	118.30	113.10
36	1	3080	G	N1-C6-O6	-10.40	113.66	119.90
85	5	1443	G	O5'-P-OP1	-10.40	96.34	105.70
85	5	1928	G	O5'-P-OP2	-10.40	96.33	105.70
85	5	3086	A	C5-C6-N1	-10.40	112.50	117.70
85	5	3106	A	N1-C6-N6	-10.40	112.36	118.60
85	5	37	U	N3-C4-O4	10.40	126.68	119.40
1	2	1654	A	C5-C6-N1	-10.40	112.50	117.70
85	5	618	C	C6-N1-C2	10.40	124.46	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	817	A	C2-N3-C4	10.40	115.80	110.60
36	1	2873	U	C6-N1-C2	-10.40	114.76	121.00
36	1	2933	A	C5-N7-C8	-10.40	98.70	103.90
85	5	2988	C	C6-N1-C2	10.40	124.46	120.30
85	5	1159	A	C4-C5-N7	10.39	115.90	110.70
36	1	871	U	N1-C2-O2	-10.39	115.53	122.80
36	1	1157	G	N3-C4-C5	-10.39	123.40	128.60
36	1	1440	G	N1-C6-O6	10.39	126.14	119.90
80	6	188	A	C5-C6-N1	-10.39	112.50	117.70
85	5	1119	C	C5-C4-N4	-10.39	112.92	120.20
85	5	1306	G	O5'-P-OP2	-10.39	96.35	105.70
85	5	2912	G	N9-C4-C5	10.39	109.56	105.40
1	2	386	G	C5-C6-O6	10.39	134.83	128.60
36	1	609	G	C2-N3-C4	10.39	117.09	111.90
36	1	647	A	C5-C6-N6	10.39	132.01	123.70
36	1	1123	U	C5-C4-O4	-10.39	119.67	125.90
36	1	1143	A	N1-C2-N3	10.39	134.50	129.30
85	5	278	U	N3-C2-O2	10.39	129.47	122.20
38	8	98	U	N3-C2-O2	10.39	129.47	122.20
67	o1	62	ARG	NE-CZ-NH1	-10.39	115.10	120.30
85	5	298	U	OP1-P-OP2	10.39	135.18	119.60
85	5	599	C	N1-C2-N3	10.39	126.47	119.20
85	5	2200	U	C5-C6-N1	-10.39	117.51	122.70
85	5	2619	G	C4-C5-C6	-10.39	112.57	118.80
85	5	2696	A	C5-C6-N1	10.39	122.89	117.70
1	2	1393	A	N1-C2-N3	10.38	134.49	129.30
36	1	3066	U	C5-C4-O4	10.39	132.13	125.90
85	5	1509	A	C8-N9-C4	10.39	109.95	105.80
36	1	284	A	O5'-P-OP2	-10.38	96.36	105.70
36	1	793	C	C6-N1-C2	10.38	124.45	120.30
36	1	2825	C	N3-C2-O2	-10.38	114.63	121.90
37	7	5	G	C8-N9-C4	10.38	110.55	106.40
1	2	942	U	N3-C2-O2	-10.38	114.93	122.20
1	2	1481	G	C5-N7-C8	10.38	109.49	104.30
36	1	292	U	N1-C2-O2	-10.38	115.53	122.80
85	5	1604	G	C5-C6-O6	10.38	134.83	128.60
36	1	356	C	O5'-P-OP2	-10.38	96.36	105.70
36	1	968	G	C6-N1-C2	-10.38	118.87	125.10
36	1	1103	A	O5'-P-OP2	10.38	123.16	110.70
36	1	2290	C	OP1-P-OP2	-10.38	104.03	119.60
38	4	53	A	N1-C6-N6	-10.38	112.37	118.60
80	6	934	C	N1-C2-O2	10.38	125.13	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1447	G	N3-C2-N2	10.38	127.17	119.90
85	5	121	A	C5-C6-N6	-10.38	115.40	123.70
85	5	1246	G	C8-N9-C4	-10.38	102.25	106.40
85	5	2898	G	N3-C2-N2	-10.38	112.63	119.90
85	5	3207	U	C5-C4-O4	10.38	132.13	125.90
36	1	999	G	N1-C6-O6	-10.38	113.67	119.90
38	4	52	A	C2-N3-C4	10.38	115.79	110.60
80	6	911	U	N3-C2-O2	-10.38	114.94	122.20
85	5	215	G	N7-C8-N9	10.38	118.29	113.10
1	2	910	C	N1-C2-O2	-10.38	112.67	118.90
36	1	1666	G	C6-C5-N7	-10.38	124.17	130.40
36	1	2124	G	N1-C6-O6	10.38	126.12	119.90
36	1	353	G	C5-C6-O6	10.37	134.82	128.60
80	6	770	A	O5'-P-OP2	-10.37	96.36	105.70
85	5	916	G	C4-C5-N7	-10.37	106.65	110.80
85	5	1356	U	N3-C2-O2	10.37	129.46	122.20
85	5	1880	U	C5-C6-N1	-10.37	117.51	122.70
1	2	57	G	O5'-P-OP2	-10.37	96.36	105.70
1	2	840	U	O5'-P-OP2	-10.37	96.37	105.70
36	1	299	G	C6-C5-N7	-10.37	124.18	130.40
36	1	1399	A	C5-C6-N1	-10.37	112.51	117.70
38	4	108	C	N1-C2-N3	10.37	126.46	119.20
85	5	542	G	C5-C6-O6	-10.37	122.38	128.60
37	7	90	U	N1-C2-N3	10.37	121.12	114.90
36	1	142	C	C6-N1-C2	-10.37	116.15	120.30
36	1	2855	U	N1-C2-N3	10.37	121.12	114.90
85	5	1362	G	C5-C6-O6	10.37	134.82	128.60
85	5	2699	G	N1-C6-O6	10.37	126.12	119.90
85	5	3220	G	N1-C6-O6	-10.37	113.68	119.90
37	3	42	A	C4-C5-C6	10.37	122.18	117.00
80	6	1002	G	N7-C8-N9	10.37	118.28	113.10
85	5	144	A	OP1-P-OP2	-10.37	104.05	119.60
36	1	378	A	N1-C2-N3	10.37	134.48	129.30
36	1	585	A	N1-C6-N6	10.37	124.82	118.60
36	1	1763	U	N3-C2-O2	10.37	129.46	122.20
38	4	38	U	N1-C2-N3	10.37	121.12	114.90
85	5	1772	U	C6-N1-C2	-10.37	114.78	121.00
85	5	1904	C	N3-C4-C5	10.37	126.05	121.90
85	5	2343	C	C6-N1-C2	10.36	124.45	120.30
85	5	2409	G	C8-N9-C4	-10.36	102.25	106.40
36	1	2714	G	N3-C4-C5	10.36	133.78	128.60
37	3	52	G	O5'-P-OP1	-10.36	96.37	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	3	119	U	C5-C4-O4	10.36	132.12	125.90
85	5	1201	C	C5-C4-N4	-10.36	112.95	120.20
85	5	2339	C	C2-N1-C1'	10.36	130.20	118.80
36	1	96	G	N3-C4-C5	10.36	133.78	128.60
36	1	834	U	C5-C6-N1	-10.36	117.52	122.70
36	1	1462	A	N1-C2-N3	10.36	134.48	129.30
36	1	1834	U	N3-C4-C5	-10.36	108.38	114.60
85	5	99	A	O5'-P-OP2	-10.36	96.38	105.70
1	2	307	G	C5-C6-O6	10.36	134.81	128.60
36	1	694	C	O5'-P-OP2	-10.36	96.38	105.70
36	1	1348	U	C6-N1-C2	10.36	127.21	121.00
36	1	651	G	C6-N1-C2	-10.36	118.89	125.10
36	1	3343	G	C5-C6-N1	-10.36	106.32	111.50
85	5	2798	C	N3-C2-O2	-10.36	114.65	121.90
37	7	109	G	N7-C8-N9	10.36	118.28	113.10
1	2	1477	C	C6-N1-C2	-10.35	116.16	120.30
36	1	184	U	C5-C6-N1	-10.35	117.52	122.70
36	1	1100	U	C6-N1-C2	10.35	127.21	121.00
36	1	2697	A	N9-C4-C5	10.35	109.94	105.80
36	1	3102	G	N1-C2-N2	-10.35	106.88	116.20
36	1	2183	A	N1-C6-N6	10.35	124.81	118.60
80	6	1789	G	N1-C2-N3	10.35	130.11	123.90
38	8	17	A	C4-C5-N7	10.35	115.88	110.70
37	3	82	G	C4-C5-C6	10.35	125.01	118.80
36	1	730	C	N3-C4-C5	10.35	126.04	121.90
36	1	1124	U	N1-C2-O2	10.35	130.04	122.80
36	1	1708	C	O5'-P-OP2	-10.35	96.39	105.70
36	1	2150	G	N1-C2-N3	10.35	130.11	123.90
85	5	2114	C	C4-C5-C6	-10.35	112.22	117.40
85	5	647	A	C4-C5-C6	10.35	122.17	117.00
85	5	2603	G	C8-N9-C1'	10.35	140.45	127.00
85	5	2711	C	N3-C4-N4	10.35	125.24	118.00
85	5	2794	G	C2-N3-C4	10.35	117.08	111.90
36	1	625	G	N7-C8-N9	-10.35	107.93	113.10
36	1	1598	G	N3-C2-N2	-10.35	112.66	119.90
36	1	2845	A	N1-C6-N6	10.35	124.81	118.60
85	5	1246	G	C6-C5-N7	-10.35	124.19	130.40
85	5	2993	G	C2-N3-C4	10.35	117.07	111.90
85	5	2608	G	N3-C2-N2	-10.35	112.66	119.90
85	5	2872	A	OP1-P-OP2	-10.35	104.08	119.60
36	1	1372	C	N1-C2-N3	10.34	126.44	119.20
85	5	2316	G	C4-C5-N7	-10.34	106.66	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3146	G	C2-N3-C4	-10.34	106.73	111.90
36	1	878	G	C2-N3-C4	-10.34	106.73	111.90
36	1	1466	G	C5-C6-N1	-10.34	106.33	111.50
1	2	586	G	C2-N3-C4	10.34	117.07	111.90
36	1	2556	C	N3-C4-N4	-10.34	110.76	118.00
36	1	2687	G	C8-N9-C4	-10.34	102.26	106.40
85	5	1137	C	C5-C6-N1	-10.34	115.83	121.00
85	5	1253	U	C5-C4-O4	-10.34	119.70	125.90
85	5	3136	G	N3-C2-N2	-10.34	112.66	119.90
36	1	81	C	O5'-P-OP1	-10.34	96.39	105.70
36	1	555	U	C5-C6-N1	-10.34	117.53	122.70
36	1	810	A	C5-N7-C8	-10.34	98.73	103.90
36	1	2417	U	C5-C4-O4	-10.34	119.70	125.90
85	5	1007	U	O5'-P-OP1	10.34	123.11	110.70
85	5	1089	G	C5-C6-O6	-10.34	122.40	128.60
36	1	2608	G	N1-C6-O6	10.34	126.10	119.90
80	6	96	G	N9-C4-C5	10.34	109.53	105.40
85	5	1085	A	N1-C2-N3	10.34	134.47	129.30
85	5	1878	G	C2-N3-C4	10.34	117.07	111.90
1	2	1637	G	C8-N9-C4	-10.33	102.27	106.40
36	1	857	G	N1-C6-O6	10.33	126.10	119.90
80	6	600	U	C5-C4-O4	-10.33	119.70	125.90
36	1	637	C	P-O3'-C3'	10.33	132.10	119.70
85	5	2391	G	N1-C6-O6	-10.33	113.70	119.90
36	1	2635	A	C5-C6-N6	10.33	131.97	123.70
36	1	1041	U	C5-C6-N1	-10.33	117.54	122.70
36	1	2645	G	C5-N7-C8	10.33	109.47	104.30
85	5	604	G	N3-C2-N2	-10.33	112.67	119.90
85	5	2655	U	O5'-P-OP2	-10.33	96.40	105.70
85	5	3093	C	N3-C4-C5	-10.33	117.77	121.90
38	8	51	G	N7-C8-N9	10.33	118.27	113.10
36	1	1124	U	C6-N1-C2	-10.33	114.80	121.00
80	6	761	G	N1-C6-O6	-10.33	113.70	119.90
85	5	823	C	N1-C2-O2	-10.33	112.70	118.90
85	5	1142	G	C6-N1-C2	-10.33	118.90	125.10
85	5	2121	G	N1-C2-N3	10.33	130.10	123.90
1	2	81	G	N1-C6-O6	10.33	126.10	119.90
85	5	809	G	N1-C6-O6	10.33	126.09	119.90
85	5	1391	C	N3-C4-N4	10.33	125.23	118.00
1	2	1707	U	N3-C2-O2	10.32	129.43	122.20
36	1	945	C	N3-C2-O2	10.32	129.13	121.90
36	1	575	G	C4-C5-N7	-10.32	106.67	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1681	U	N3-C2-O2	-10.32	114.97	122.20
36	1	2362	C	C2-N3-C4	10.32	125.06	119.90
36	1	3328	G	C8-N9-C4	-10.32	102.27	106.40
80	6	979	A	C8-N9-C4	-10.32	101.67	105.80
85	5	75	G	N1-C6-O6	10.32	126.09	119.90
85	5	1850	A	N9-C4-C5	10.32	109.93	105.80
85	5	1886	A	C4-C5-C6	-10.32	111.84	117.00
85	5	2211	U	O5'-P-OP1	-10.32	96.41	105.70
36	1	2955	U	O5'-P-OP1	-10.32	96.41	105.70
85	5	437	G	C4-C5-C6	-10.32	112.61	118.80
85	5	886	C	O5'-P-OP1	-10.32	96.41	105.70
85	5	1910	A	OP2-P-O3'	10.32	127.91	105.20
85	5	2833	A	C6-N1-C2	-10.32	112.41	118.60
36	1	15	C	N1-C2-O2	-10.32	112.71	118.90
36	1	979	U	C6-N1-C2	-10.32	114.81	121.00
36	1	1289	G	N3-C4-C5	10.32	133.76	128.60
38	8	79	A	C5-C6-N1	-10.32	112.54	117.70
36	1	1518	U	N1-C2-N3	10.32	121.09	114.90
36	1	2884	C	C4-C5-C6	-10.32	112.24	117.40
85	5	2256	A	N9-C4-C5	-10.32	101.67	105.80
36	1	2878	G	N1-C6-O6	10.31	126.09	119.90
37	3	101	G	N1-C2-N3	10.31	130.09	123.90
85	5	1592	G	N9-C4-C5	10.31	109.53	105.40
80	6	1264	G	C4-C5-N7	-10.31	106.67	110.80
85	5	2338	C	O5'-P-OP2	-10.31	96.42	105.70
85	5	2980	U	N3-C4-O4	10.31	126.62	119.40
36	1	1338	C	OP1-P-OP2	-10.31	104.14	119.60
85	5	49	A	C5-C6-N6	-10.31	115.45	123.70
85	5	938	C	N1-C2-O2	-10.31	112.71	118.90
36	1	614	C	N3-C4-C5	10.31	126.02	121.90
36	1	2106	A	C8-N9-C4	10.31	109.92	105.80
36	1	2364	G	N3-C4-N9	-10.31	119.81	126.00
36	1	3393	U	C5-C4-O4	-10.31	119.72	125.90
85	5	902	G	N1-C6-O6	10.31	126.08	119.90
85	5	1347	U	O5'-P-OP2	-10.31	96.42	105.70
85	5	2242	A	N7-C8-N9	-10.31	108.65	113.80
85	5	2810	C	O5'-P-OP1	10.31	123.07	110.70
85	5	2978	U	N3-C2-O2	-10.31	114.98	122.20
38	8	114	G	C5-C6-O6	-10.31	122.42	128.60
85	5	651	G	N1-C2-N3	10.31	130.08	123.90
1	2	254	A	N9-C4-C5	-10.30	101.68	105.80
37	7	49	G	C4-C5-C6	10.30	124.98	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	320	G	OP1-P-OP2	10.30	135.05	119.60
85	5	351	A	N1-C2-N3	10.30	134.45	129.30
85	5	658	G	OP1-P-OP2	10.30	135.06	119.60
85	5	1196	C	C6-N1-C2	10.30	124.42	120.30
85	5	2641	U	N3-C4-O4	10.30	126.61	119.40
85	5	2208	A	N1-C6-N6	10.30	124.78	118.60
36	1	984	G	C5-C6-N1	10.30	116.65	111.50
85	5	40	A	C2-N3-C4	-10.30	105.45	110.60
85	5	3089	C	N3-C4-N4	10.30	125.21	118.00
36	1	906	A	C2-N3-C4	10.30	115.75	110.60
36	1	1370	G	C2-N3-C4	-10.30	106.75	111.90
80	6	478	A	C5-C6-N1	-10.30	112.55	117.70
1	2	1088	C	C6-N1-C2	-10.30	116.18	120.30
80	6	455	C	C5-C4-N4	-10.30	112.99	120.20
85	5	1450	G	C5-N7-C8	-10.30	99.15	104.30
85	5	3153	U	N1-C2-O2	10.30	130.01	122.80
85	5	3041	U	N3-C4-C5	10.30	120.78	114.60
36	1	1196	C	C2-N3-C4	10.29	125.05	119.90
36	1	2112	U	N1-C2-N3	-10.29	108.72	114.90
85	5	1872	C	N1-C2-O2	10.29	125.08	118.90
85	5	2164	A	C2-N3-C4	-10.29	105.45	110.60
85	5	3016	A	N1-C6-N6	10.29	124.78	118.60
85	5	3294	A	C5-C6-N1	10.29	122.85	117.70
37	7	84	A	N7-C8-N9	10.29	118.95	113.80
36	1	283	G	N1-C6-O6	10.29	126.08	119.90
36	1	1126	G	C8-N9-C4	-10.29	102.28	106.40
36	1	1383	G	C5-N7-C8	-10.29	99.15	104.30
36	1	1464	G	C8-N9-C4	10.29	110.52	106.40
80	6	305	C	N3-C4-N4	10.29	125.20	118.00
85	5	136	G	C8-N9-C4	-10.29	102.28	106.40
1	2	859	G	N9-C4-C5	-10.29	101.28	105.40
36	1	981	U	N3-C2-O2	10.29	129.40	122.20
36	1	1678	G	N1-C6-O6	10.29	126.07	119.90
36	1	2387	A	C8-N9-C4	10.29	109.92	105.80
36	1	2754	G	C5-C6-O6	10.29	134.77	128.60
36	1	2816	G	C6-C5-N7	-10.29	124.23	130.40
36	1	3175	U	N1-C2-O2	10.29	130.00	122.80
85	5	2297	U	O5'-P-OP1	-10.29	96.44	105.70
85	5	2643	A	C5-N7-C8	-10.29	98.76	103.90
80	6	1670	G	C2-N3-C4	-10.29	106.76	111.90
85	5	3207	U	C4-C5-C6	10.29	125.87	119.70
85	5	358	G	N3-C4-N9	-10.28	119.83	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	418	A	N9-C4-C5	-10.28	101.69	105.80
38	4	22	U	O5'-P-OP1	10.28	123.04	110.70
85	5	1191	U	C5-C6-N1	-10.28	117.56	122.70
85	5	1310	G	C5-N7-C8	-10.28	99.16	104.30
85	5	3141	A	C2-N3-C4	-10.28	105.46	110.60
36	1	380	U	C6-N1-C2	-10.28	114.83	121.00
36	1	843	A	N1-C6-N6	10.28	124.77	118.60
80	6	935	U	N3-C4-C5	-10.28	108.43	114.60
85	5	682	U	N3-C2-O2	10.28	129.40	122.20
85	5	2952	G	O5'-P-OP1	-10.28	96.44	105.70
85	5	759	U	C5-C4-O4	-10.28	119.73	125.90
85	5	2319	U	C5-C6-N1	10.28	127.84	122.70
37	7	77	G	N3-C4-C5	-10.28	123.46	128.60
36	1	180	C	C4-C5-C6	-10.28	112.26	117.40
38	4	50	C	C4-C5-C6	10.28	122.54	117.40
85	5	168	U	N3-C4-O4	-10.28	112.20	119.40
85	5	2644	C	C4-C5-C6	10.28	122.54	117.40
36	1	512	U	C4-C5-C6	10.28	125.86	119.70
36	1	1094	U	C6-N1-C2	-10.28	114.83	121.00
85	5	37	U	C6-N1-C2	-10.28	114.83	121.00
85	5	57	A	N9-C4-C5	-10.28	101.69	105.80
85	5	632	G	O5'-P-OP2	-10.28	96.45	105.70
36	1	2132	C	O5'-P-OP2	-10.28	96.45	105.70
85	5	2680	A	N1-C6-N6	-10.28	112.44	118.60
1	2	1016	C	N3-C2-O2	-10.27	114.71	121.90
36	1	418	A	O5'-P-OP1	-10.27	96.45	105.70
36	1	2206	G	C5-C6-O6	-10.27	122.44	128.60
36	1	2345	A	N1-C2-N3	10.27	134.44	129.30
36	1	3048	A	O5'-P-OP1	-10.27	96.45	105.70
85	5	1045	C	C6-N1-C2	-10.27	116.19	120.30
85	5	1912	U	N1-C2-O2	-10.27	115.61	122.80
36	1	2231	C	C6-N1-C2	10.27	124.41	120.30
80	6	151	G	O5'-P-OP1	-10.27	96.46	105.70
85	5	60	A	C8-N9-C4	-10.27	101.69	105.80
85	5	745	C	N1-C2-O2	-10.27	112.74	118.90
85	5	2879	C	C4-C5-C6	-10.27	112.27	117.40
85	5	2903	A	C5-C6-N6	10.27	131.92	123.70
85	5	2993	G	C5-C6-N1	10.27	116.63	111.50
85	5	3164	C	C6-N1-C2	10.27	124.41	120.30
36	1	727	G	C6-C5-N7	-10.27	124.24	130.40
36	1	917	A	C8-N9-C4	10.27	109.91	105.80
36	1	939	U	O5'-P-OP1	10.27	123.02	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	275	U	N1-C2-N3	10.27	121.06	114.90
85	5	742	G	C8-N9-C4	-10.27	102.29	106.40
85	5	1444	G	C4-C5-C6	10.27	124.96	118.80
85	5	2213	A	C2-N3-C4	-10.27	105.47	110.60
85	5	2371	G	C2-N3-C4	-10.27	106.77	111.90
85	5	2894	C	N1-C2-N3	10.27	126.39	119.20
36	1	878	G	C5-C6-O6	10.26	134.76	128.60
36	1	1447	G	N1-C6-O6	-10.26	113.74	119.90
36	1	3051	U	C4-C5-C6	-10.26	113.54	119.70
85	5	1899	G	N9-C4-C5	10.26	109.51	105.40
85	5	2977	G	N9-C4-C5	10.26	109.51	105.40
36	1	2319	U	N3-C4-C5	-10.26	108.44	114.60
36	1	3148	U	N3-C4-C5	-10.26	108.44	114.60
80	6	1100	G	N1-C2-N3	10.26	130.06	123.90
85	5	47	C	O5'-P-OP1	10.26	123.02	110.70
85	5	525	C	N1-C2-O2	-10.26	112.74	118.90
85	5	1367	G	N7-C8-N9	10.26	118.23	113.10
85	5	801	A	C5-N7-C8	10.26	109.03	103.90
85	5	1871	U	N1-C2-N3	10.26	121.06	114.90
85	5	2291	A	C5-C6-N1	10.26	122.83	117.70
85	5	2738	A	O5'-P-OP2	-10.26	96.46	105.70
85	5	2846	U	O5'-P-OP2	10.26	123.02	110.70
36	1	333	G	C8-N9-C4	10.26	110.50	106.40
36	1	945	C	N1-C2-O2	-10.26	112.74	118.90
36	1	1193	A	N9-C4-C5	-10.26	101.70	105.80
36	1	1819	U	C5-C6-N1	10.26	127.83	122.70
80	6	1122	G	C2-N3-C4	-10.26	106.77	111.90
85	5	657	A	C2-N3-C4	-10.26	105.47	110.60
37	7	39	C	O5'-P-OP1	10.26	123.01	110.70
36	1	331	G	N1-C6-O6	10.26	126.06	119.90
36	1	621	A	C5-N7-C8	-10.26	98.77	103.90
36	1	1306	G	C6-C5-N7	-10.26	124.25	130.40
85	5	1542	G	N3-C4-C5	10.26	133.73	128.60
1	2	561	G	C4-C5-N7	-10.26	106.70	110.80
36	1	914	A	N9-C4-C5	10.26	109.90	105.80
36	1	962	A	C6-N1-C2	-10.26	112.45	118.60
85	5	198	A	C2-N3-C4	-10.26	105.47	110.60
85	5	1885	U	C5-C6-N1	-10.26	117.57	122.70
1	2	428	A	N1-C6-N6	-10.25	112.45	118.60
36	1	973	A	C5-C6-N1	-10.25	112.57	117.70
85	5	240	U	N1-C2-O2	10.25	129.98	122.80
36	1	1334	U	O5'-P-OP2	-10.25	96.47	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2974	U	N1-C2-N3	10.25	121.05	114.90
85	5	58	G	OP1-P-OP2	-10.25	104.22	119.60
85	5	339	C	C6-N1-C2	-10.25	116.20	120.30
85	5	2598	G	O5'-P-OP1	10.25	123.00	110.70
36	1	1324	U	O5'-P-OP2	-10.25	96.48	105.70
36	1	2942	C	OP1-P-OP2	-10.25	104.23	119.60
36	1	3027	A	C5-C6-N1	-10.25	112.58	117.70
80	6	1656	U	C2-N3-C4	10.25	133.15	127.00
80	6	1680	G	C6-N1-C2	-10.25	118.95	125.10
36	1	2637	A	N9-C4-C5	10.24	109.90	105.80
36	1	3114	A	C5-C6-N1	10.24	122.82	117.70
85	5	1698	C	N1-C2-O2	-10.24	112.75	118.90
85	5	3037	U	N3-C4-C5	-10.24	108.45	114.60
85	5	3210	A	C5-N7-C8	-10.24	98.78	103.90
36	1	648	C	N1-C2-N3	10.24	126.37	119.20
36	1	1334	U	C4-C5-C6	10.24	125.84	119.70
38	4	94	C	C6-N1-C2	10.24	124.40	120.30
85	5	52	A	C8-N9-C4	10.24	109.90	105.80
85	5	1313	G	O5'-P-OP2	-10.24	96.48	105.70
85	5	2380	U	N1-C2-N3	10.24	121.05	114.90
85	5	2911	A	N7-C8-N9	10.24	118.92	113.80
85	5	3327	G	N9-C4-C5	10.24	109.50	105.40
36	1	585	A	C4-C5-N7	10.24	115.82	110.70
36	1	1343	A	O5'-P-OP2	-10.24	96.48	105.70
85	5	40	A	O5'-P-OP1	-10.24	96.48	105.70
85	5	157	A	C6-N1-C2	-10.24	112.46	118.60
85	5	1761	C	N1-C2-N3	-10.24	112.03	119.20
85	5	1934	G	N1-C2-N3	10.24	130.04	123.90
40	13	196	ARG	NE-CZ-NH2	-10.24	115.18	120.30
36	1	1437	C	C4-C5-C6	10.24	122.52	117.40
36	1	2735	U	O5'-P-OP2	-10.24	96.49	105.70
85	5	119	U	N1-C2-O2	10.24	129.97	122.80
36	1	71	A	N1-C2-N3	10.23	134.42	129.30
36	1	1166	G	C6-C5-N7	-10.23	124.26	130.40
85	5	1107	C	C4-C5-C6	10.23	122.52	117.40
38	8	22	U	C5-C4-O4	-10.23	119.76	125.90
36	1	694	C	N3-C4-C5	-10.23	117.81	121.90
85	5	694	C	O5'-P-OP2	-10.23	96.49	105.70
85	5	1005	G	N3-C4-C5	10.23	133.72	128.60
85	5	3040	A	C2-N3-C4	-10.23	105.48	110.60
36	1	2703	A	O5'-P-OP2	-10.23	96.49	105.70
36	1	2683	U	N3-C2-O2	10.23	129.36	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	L4	95	ARG	NE-CZ-NH1	-10.23	115.19	120.30
85	5	27	C	N1-C2-O2	-10.23	112.76	118.90
85	5	1097	G	C5-C6-O6	10.23	134.74	128.60
80	6	54	C	C5-C6-N1	10.23	126.11	121.00
36	1	1552	G	C4-C5-C6	10.23	124.94	118.80
85	5	3194	C	C6-N1-C2	-10.23	116.21	120.30
36	1	2890	A	C6-N1-C2	-10.23	112.46	118.60
85	5	981	U	N3-C4-O4	10.23	126.56	119.40
85	5	2402	A	O5'-P-OP2	-10.23	96.50	105.70
85	5	2595	A	C8-N9-C4	-10.23	101.71	105.80
85	5	2640	A	N1-C6-N6	10.23	124.74	118.60
36	1	1389	G	C5-N7-C8	-10.22	99.19	104.30
36	1	2221	G	C5-C6-N1	-10.22	106.39	111.50
36	1	2978	U	OP1-P-O3'	10.22	127.70	105.20
38	4	149	A	C2-N3-C4	-10.22	105.49	110.60
80	6	83	G	N1-C6-O6	10.22	126.03	119.90
85	5	691	A	O5'-P-OP1	-10.22	96.50	105.70
85	5	2745	G	O5'-P-OP2	-10.22	96.50	105.70
85	5	2995	A	C6-N1-C2	-10.22	112.47	118.60
85	5	3090	U	O5'-P-OP1	-10.22	96.50	105.70
85	5	3175	U	O5'-P-OP2	-10.22	96.50	105.70
1	2	28	A	C2-N3-C4	-10.22	105.49	110.60
36	1	98	G	C6-N1-C2	-10.22	118.97	125.10
80	6	417	A	O5'-P-OP2	-10.22	96.50	105.70
85	5	950	G	N9-C4-C5	-10.22	101.31	105.40
85	5	1497	C	C5-C4-N4	-10.22	113.05	120.20
85	5	2254	U	C4-C5-C6	10.22	125.83	119.70
85	5	2277	C	O5'-P-OP2	-10.22	96.50	105.70
85	5	2288	G	C2-N3-C4	-10.22	106.79	111.90
38	8	15	G	N3-C4-C5	-10.22	123.49	128.60
38	8	92	A	O5'-P-OP1	-10.22	96.50	105.70
36	1	879	U	N3-C4-O4	-10.22	112.25	119.40
36	1	1745	C	O5'-P-OP2	-10.22	96.50	105.70
85	5	627	U	C5-C4-O4	10.22	132.03	125.90
36	1	2939	G	N1-C2-N3	10.22	130.03	123.90
85	5	1204	A	N1-C2-N3	10.22	134.41	129.30
85	5	1430	U	C6-N1-C2	10.22	127.13	121.00
85	5	2368	A	N1-C2-N3	10.22	134.41	129.30
85	5	2973	G	C2-N3-C4	-10.22	106.79	111.90
36	1	709	A	C5-N7-C8	10.22	109.01	103.90
36	1	3379	C	C4-C5-C6	10.22	122.51	117.40
80	6	1649	G	N1-C6-O6	10.22	126.03	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	895	A	C2-N3-C4	-10.22	105.49	110.60
1	2	36	C	C6-N1-C2	10.21	124.39	120.30
85	5	1188	U	C4-C5-C6	10.21	125.83	119.70
85	5	2663	G	C4-C5-C6	10.22	124.93	118.80
85	5	3099	C	N3-C2-O2	10.21	129.05	121.90
1	2	824	U	O5'-P-OP2	-10.21	96.51	105.70
36	1	1101	G	C4-C5-N7	-10.21	106.72	110.80
36	1	1122	U	N1-C2-O2	-10.21	115.65	122.80
36	1	2279	A	C5-C6-N1	10.21	122.81	117.70
85	5	343	U	N3-C4-C5	-10.21	108.47	114.60
85	5	725	G	C8-N9-C1'	-10.21	113.72	127.00
85	5	1474	A	C5-C6-N1	-10.21	112.59	117.70
85	5	2302	G	N1-C6-O6	-10.21	113.77	119.90
80	6	1017	U	N3-C4-O4	10.21	126.55	119.40
85	5	392	G	C8-N9-C4	-10.21	102.32	106.40
85	5	918	C	N3-C4-C5	-10.21	117.82	121.90
85	5	2774	C	O5'-P-OP1	-10.21	96.51	105.70
85	5	919	U	N1-C2-O2	-10.21	115.65	122.80
85	5	1895	A	C4-C5-C6	-10.21	111.89	117.00
85	5	3137	C	C6-N1-C2	10.21	124.38	120.30
36	1	53	G	C8-N9-C4	10.21	110.48	106.40
36	1	1765	U	N3-C4-O4	10.21	126.55	119.40
36	1	2246	G	N3-C2-N2	-10.21	112.75	119.90
85	5	11	A	C8-N9-C4	-10.21	101.72	105.80
36	1	2614	G	N1-C2-N3	10.21	130.02	123.90
85	5	1006	A	N7-C8-N9	-10.21	108.70	113.80
85	5	3071	U	N3-C4-C5	-10.21	108.47	114.60
85	5	3093	C	N1-C2-O2	-10.21	112.78	118.90
85	5	3127	A	O5'-P-OP2	10.21	122.95	110.70
85	5	3370	A	C8-N9-C4	-10.21	101.72	105.80
36	1	290	G	C6-N1-C2	-10.21	118.98	125.10
36	1	907	G	N9-C4-C5	-10.21	101.32	105.40
36	1	1585	C	N3-C4-C5	-10.21	117.82	121.90
38	4	29	U	O5'-P-OP1	-10.21	96.52	105.70
80	6	324	U	C6-N1-C2	-10.21	114.88	121.00
85	5	375	A	O5'-P-OP1	10.21	122.95	110.70
85	5	1080	A	OP1-P-OP2	-10.21	104.29	119.60
85	5	3105	U	N1-C2-N3	10.21	121.02	114.90
85	5	1433	A	O5'-P-OP1	-10.20	96.52	105.70
1	2	1643	A	C8-N9-C4	10.20	109.88	105.80
36	1	2246	G	C5-C6-O6	10.20	134.72	128.60
36	1	94	G	C5-C6-N1	10.20	116.60	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	154	U	N3-C4-C5	-10.20	108.48	114.60
85	5	1404	G	N3-C4-N9	-10.20	119.88	126.00
85	5	3177	G	N1-C2-N3	10.20	130.02	123.90
85	5	2698	G	C4-C5-N7	-10.20	106.72	110.80
85	5	3065	G	N1-C2-N3	10.20	130.02	123.90
85	5	2358	A	C6-N1-C2	-10.20	112.48	118.60
85	5	2963	C	N3-C4-C5	-10.20	117.82	121.90
36	1	3044	G	OP1-P-OP2	-10.20	104.30	119.60
36	1	1156	C	N1-C2-N3	10.20	126.34	119.20
80	6	942	G	C4-C5-N7	10.20	114.88	110.80
80	6	997	G	N1-C2-N3	10.20	130.02	123.90
85	5	425	G	N3-C4-C5	10.20	133.70	128.60
85	5	715	A	N1-C2-N3	10.20	134.40	129.30
85	5	1172	G	C5-C6-O6	-10.20	122.48	128.60
85	5	2734	A	C8-N9-C4	-10.20	101.72	105.80
36	1	134	U	N1-C2-N3	-10.19	108.78	114.90
36	1	369	A	C4-C5-N7	10.19	115.80	110.70
36	1	2736	A	C5-C6-N1	-10.20	112.60	117.70
36	1	2772	C	O5'-P-OP1	-10.19	96.53	105.70
85	5	326	U	N3-C4-C5	-10.19	108.48	114.60
37	7	9	C	C2-N3-C4	-10.19	114.80	119.90
38	4	90	U	N1-C2-O2	-10.19	115.67	122.80
36	1	331	G	C6-N1-C2	-10.19	118.98	125.10
36	1	1184	A	N7-C8-N9	-10.19	108.70	113.80
36	1	1297	C	C4-C5-C6	10.19	122.50	117.40
36	1	1740	U	N1-C2-O2	-10.19	115.67	122.80
85	5	2717	U	N3-C2-O2	10.19	129.33	122.20
36	1	2337	C	N1-C2-O2	-10.19	112.79	118.90
36	1	3390	G	N1-C6-O6	10.19	126.01	119.90
85	5	1312	C	N1-C2-O2	-10.19	112.79	118.90
36	1	1371	G	C4-C5-N7	-10.19	106.72	110.80
80	6	540	G	O5'-P-OP1	-10.19	96.53	105.70
36	1	323	A	C8-N9-C4	10.18	109.87	105.80
36	1	559	A	C2-N3-C4	-10.18	105.51	110.60
36	1	995	U	C5-C4-O4	-10.18	119.79	125.90
80	6	1047	G	C4-C5-N7	10.18	114.87	110.80
80	6	1385	G	C5-N7-C8	-10.18	99.21	104.30
85	5	417	A	O5'-P-OP2	-10.18	96.53	105.70
85	5	1506	A	C5-N7-C8	-10.18	98.81	103.90
85	5	3327	G	C5-C6-O6	10.18	134.71	128.60
36	1	1202	A	C5-N7-C8	-10.18	98.81	103.90
36	1	3239	G	N3-C4-C5	10.18	133.69	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	3	2	G	C4-C5-N7	-10.18	106.73	110.80
80	6	339	C	N1-C2-O2	-10.18	112.79	118.90
85	5	1408	G	O5'-P-OP2	-10.18	96.53	105.70
85	5	1418	A	C6-N1-C2	-10.18	112.49	118.60
36	1	5	G	N3-C2-N2	-10.18	112.78	119.90
36	1	299	G	C6-N1-C2	10.18	131.21	125.10
36	1	1387	G	C8-N9-C4	-10.18	102.33	106.40
85	5	592	A	N1-C6-N6	10.18	124.71	118.60
80	6	1065	A	C5-N7-C8	-10.18	98.81	103.90
85	5	182	U	N3-C2-O2	10.18	129.33	122.20
36	1	1287	A	N1-C2-N3	10.18	134.39	129.30
36	1	1392	G	C5-C6-N1	10.18	116.59	111.50
36	1	2433	U	N1-C2-N3	-10.18	108.79	114.90
85	5	1171	G	OP1-P-OP2	-10.18	104.34	119.60
85	5	2754	G	C6-N1-C2	-10.18	118.99	125.10
1	2	433	C	O5'-P-OP1	-10.17	96.54	105.70
85	5	1913	A	C8-N9-C4	-10.17	101.73	105.80
36	1	1376	C	N3-C4-C5	-10.17	117.83	121.90
36	1	1532	C	O5'-P-OP2	-10.17	96.54	105.70
80	6	1113	A	N1-C2-N3	10.17	134.39	129.30
36	1	178	U	O5'-P-OP2	-10.17	96.55	105.70
36	1	695	C	C2-N3-C4	-10.17	114.81	119.90
36	1	1920	U	C5-C6-N1	-10.17	117.61	122.70
36	1	1915	A	N1-C2-N3	10.17	134.38	129.30
36	1	2712	U	C5-C4-O4	10.17	132.00	125.90
36	1	2807	U	N1-C2-O2	-10.17	115.68	122.80
80	6	1655	A	N1-C6-N6	-10.17	112.50	118.60
85	5	1330	A	N9-C4-C5	10.17	109.87	105.80
85	5	2406	C	C5-C6-N1	10.17	126.08	121.00
85	5	499	G	C6-C5-N7	-10.17	124.30	130.40
85	5	630	A	C2-N3-C4	-10.17	105.52	110.60
85	5	2619	G	O5'-P-OP2	10.17	122.90	110.70
38	8	12	A	OP1-P-OP2	-10.17	104.35	119.60
36	1	2185	G	N9-C4-C5	10.17	109.47	105.40
36	1	2297	U	O5'-P-OP2	-10.17	96.55	105.70
36	1	3274	A	N7-C8-N9	10.17	118.88	113.80
85	5	1486	G	N3-C2-N2	-10.17	112.78	119.90
85	5	1878	G	N3-C4-C5	-10.17	123.52	128.60
36	1	2968	G	C8-N9-C4	-10.17	102.33	106.40
80	6	395	U	C5-C6-N1	-10.17	117.62	122.70
85	5	201	A	N1-C6-N6	10.17	124.70	118.60
85	5	2729	U	C6-N1-C2	10.17	127.10	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	7	91	G	C4-C5-N7	-10.17	106.73	110.80
36	1	2519	A	C5-C6-N1	-10.16	112.62	117.70
38	4	97	A	N9-C4-C5	10.16	109.87	105.80
85	5	1484	U	C4-C5-C6	10.16	125.80	119.70
85	5	1915	A	N1-C2-N3	10.16	134.38	129.30
85	5	2939	G	C8-N9-C4	10.16	110.47	106.40
36	1	1466	G	C2-N3-C4	-10.16	106.82	111.90
36	1	1694	U	C6-N1-C2	10.16	127.10	121.00
38	4	66	A	OP1-P-OP2	-10.16	104.36	119.60
80	6	1490	C	C5-C6-N1	10.16	126.08	121.00
85	5	2220	A	N7-C8-N9	10.16	118.88	113.80
1	2	338	C	C5-C6-N1	-10.16	115.92	121.00
36	1	2698	G	N7-C8-N9	-10.16	108.02	113.10
38	4	114	G	N3-C4-N9	-10.16	119.90	126.00
80	6	44	U	O5'-P-OP1	10.16	122.89	110.70
80	6	325	G	O5'-P-OP1	-10.16	96.56	105.70
85	5	2869	U	C5-C6-N1	-10.16	117.62	122.70
36	1	751	A	C8-N9-C4	-10.16	101.74	105.80
36	1	867	G	C5-N7-C8	10.16	109.38	104.30
36	1	960	U	O5'-P-OP2	-10.16	96.56	105.70
36	1	1175	C	C2-N3-C4	-10.16	114.82	119.90
36	1	3008	A	C8-N9-C4	-10.16	101.74	105.80
36	1	2851	A	N1-C6-N6	-10.16	112.51	118.60
85	5	1545	A	C5-N7-C8	-10.16	98.82	103.90
85	5	2559	U	N3-C2-O2	-10.15	115.09	122.20
37	7	77	G	C6-C5-N7	10.15	136.49	130.40
38	4	149	A	N1-C2-N3	10.15	134.38	129.30
85	5	1939	G	C5-C6-N1	-10.15	106.42	111.50
36	1	2399	A	N7-C8-N9	10.15	118.88	113.80
36	1	2980	U	C5-C6-N1	10.15	127.78	122.70
80	6	1100	G	N3-C4-C5	-10.15	123.53	128.60
85	5	303	G	N1-C6-O6	-10.15	113.81	119.90
78	q2	17	CYS	CA-CB-SG	10.15	132.27	114.00
85	5	651	G	N3-C4-C5	10.15	133.68	128.60
85	5	2363	A	C8-N9-C4	-10.15	101.74	105.80
85	5	2767	U	C2-N3-C4	10.15	133.09	127.00
1	2	1083	G	C4-C5-C6	10.15	124.89	118.80
36	1	64	G	N3-C2-N2	-10.15	112.80	119.90
36	1	228	U	N3-C4-C5	10.15	120.69	114.60
36	1	1884	A	N1-C6-N6	-10.15	112.51	118.60
85	5	774	G	C5-N7-C8	10.15	109.37	104.30
85	5	1172	G	C6-N1-C2	-10.15	119.01	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1824	U	C6-N1-C2	-10.15	114.91	121.00
85	5	2602	G	C5-C6-O6	10.15	134.69	128.60
36	1	56	G	N1-C6-O6	10.14	125.99	119.90
36	1	210	U	N3-C2-O2	-10.14	115.10	122.20
36	1	210	U	N1-C2-O2	10.14	129.90	122.80
36	1	267	G	N7-C8-N9	10.14	118.17	113.10
36	1	866	A	N1-C6-N6	10.14	124.69	118.60
80	6	1304	G	N1-C6-O6	-10.14	113.81	119.90
36	1	104	G	C5-N7-C8	-10.14	99.23	104.30
36	1	3330	A	C6-N1-C2	-10.14	112.51	118.60
85	5	208	C	N3-C4-N4	10.14	125.10	118.00
85	5	760	G	C5-N7-C8	-10.14	99.23	104.30
85	5	1938	U	N3-C2-O2	10.14	129.30	122.20
1	2	1740	G	C8-N9-C4	-10.14	102.34	106.40
36	1	210	U	N3-C4-C5	10.14	120.68	114.60
36	1	704	U	N1-C2-O2	-10.14	115.70	122.80
36	1	2857	C	OP1-P-OP2	-10.14	104.39	119.60
36	1	3299	A	C5-C6-N1	-10.14	112.63	117.70
36	1	3373	U	C6-N1-C2	10.14	127.08	121.00
85	5	1368	U	N3-C2-O2	10.14	129.30	122.20
36	1	1405	U	N1-C2-O2	-10.14	115.70	122.80
85	5	295	A	C8-N9-C4	10.14	109.86	105.80
85	5	1404	G	N1-C6-O6	10.14	125.98	119.90
85	5	1790	G	C4-C5-C6	10.14	124.88	118.80
36	1	677	A	C8-N9-C4	-10.14	101.74	105.80
85	5	1170	A	N1-C2-N3	10.14	134.37	129.30
85	5	2830	G	C4-C5-C6	10.14	124.88	118.80
36	1	809	G	C2-N3-C4	-10.14	106.83	111.90
37	3	17	A	C6-N1-C2	-10.14	112.52	118.60
37	3	92	A	C8-N9-C4	10.14	109.86	105.80
85	5	193	C	C5-C6-N1	-10.14	115.93	121.00
85	5	2425	G	N9-C4-C5	-10.14	101.34	105.40
85	5	3231	U	C6-N1-C2	-10.14	114.92	121.00
36	1	2229	A	N1-C2-N3	-10.14	124.23	129.30
36	1	555	U	N3-C2-O2	-10.13	115.11	122.20
36	1	1122	U	N3-C4-C5	-10.13	108.52	114.60
36	1	1156	C	N1-C2-O2	-10.14	112.82	118.90
36	1	1497	C	C5-C6-N1	-10.13	115.93	121.00
36	1	2964	G	N1-C6-O6	-10.13	113.82	119.90
36	1	3154	C	N1-C2-O2	-10.13	112.82	118.90
80	6	1755	A	N7-C8-N9	10.13	118.87	113.80
85	5	92	G	C5-C6-N1	10.13	116.57	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1367	G	N9-C4-C5	-10.13	101.35	105.40
85	5	139	G	C4-C5-N7	10.13	114.85	110.80
36	1	1306	G	C5-C6-N1	-10.13	106.44	111.50
36	1	2198	A	N1-C6-N6	-10.13	112.52	118.60
36	1	3120	C	O5'-P-OP1	-10.13	96.58	105.70
80	6	211	U	C5-C6-N1	-10.13	117.63	122.70
80	6	1455	G	N1-C6-O6	10.13	125.98	119.90
85	5	1904	C	N3-C2-O2	-10.13	114.81	121.90
80	6	609	U	C2-N3-C4	-10.13	120.92	127.00
80	6	1322	A	C8-N9-C4	10.13	109.85	105.80
85	5	300	G	N1-C6-O6	-10.13	113.82	119.90
85	5	817	A	C5-C6-N1	10.13	122.77	117.70
85	5	1739	U	N1-C2-N3	10.13	120.98	114.90
85	5	1009	A	N1-C6-N6	10.13	124.68	118.60
85	5	1481	A	C8-N9-C4	-10.13	101.75	105.80
36	1	413	U	N3-C2-O2	-10.13	115.11	122.20
36	1	2126	A	O5'-P-OP1	10.13	122.85	110.70
80	6	937	C	C6-N1-C2	-10.13	116.25	120.30
85	5	2291	A	OP1-P-OP2	-10.13	104.41	119.60
85	5	3230	G	C2-N3-C4	-10.13	106.83	111.90
36	1	3215	A	N9-C4-C5	10.13	109.85	105.80
85	5	331	G	N1-C6-O6	-10.12	113.83	119.90
36	1	701	G	C5-N7-C8	10.12	109.36	104.30
80	6	1104	U	N3-C2-O2	10.12	129.28	122.20
85	5	1461	A	C6-N1-C2	-10.12	112.53	118.60
85	5	582	G	C6-C5-N7	-10.12	124.33	130.40
85	5	1367	G	C8-N9-C4	-10.12	102.35	106.40
38	8	80	A	N7-C8-N9	10.12	118.86	113.80
36	1	895	A	N7-C8-N9	10.12	118.86	113.80
80	6	1011	G	N1-C6-O6	10.12	125.97	119.90
85	5	683	U	C5-C6-N1	10.12	127.76	122.70
36	1	138	U	C6-N1-C2	10.12	127.07	121.00
36	1	790	U	N3-C4-O4	-10.12	112.32	119.40
36	1	1445	U	N3-C2-O2	10.12	129.28	122.20
36	1	894	G	C8-N9-C4	-10.11	102.35	106.40
80	6	266	A	N1-C2-N3	10.12	134.36	129.30
80	6	1013	A	C8-N9-C4	-10.11	101.75	105.80
80	6	1463	C	C6-N1-C2	10.12	124.35	120.30
85	5	898	U	N1-C2-N3	-10.11	108.83	114.90
85	5	3047	U	N3-C2-O2	-10.11	115.12	122.20
1	2	254	A	C8-N9-C4	10.11	109.84	105.80
36	1	790	U	C5-C4-O4	10.11	131.97	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	986	G	O5'-P-OP1	10.11	122.83	110.70
85	5	2369	G	N1-C2-N3	10.11	129.97	123.90
85	5	1520	G	C8-N9-C4	-10.11	102.36	106.40
1	2	64	U	N1-C2-O2	-10.11	115.72	122.80
36	1	354	U	C6-N1-C2	-10.11	114.93	121.00
36	1	2650	U	N1-C2-N3	10.11	120.97	114.90
36	1	2801	A	O5'-P-OP2	-10.11	96.60	105.70
80	6	373	G	C5-C6-O6	10.11	134.67	128.60
80	6	521	A	C5-C6-N6	10.11	131.79	123.70
80	6	571	G	N1-C6-O6	-10.11	113.83	119.90
36	1	52	A	C6-N1-C2	-10.11	112.54	118.60
38	4	65	A	C2-N3-C4	-10.11	105.55	110.60
85	5	2129	U	O5'-P-OP1	-10.11	96.60	105.70
85	5	2742	C	C5-C6-N1	-10.11	115.95	121.00
36	1	2918	G	C8-N9-C4	-10.11	102.36	106.40
36	1	3148	U	C5-C6-N1	10.11	127.75	122.70
36	1	3320	A	C8-N9-C4	-10.11	101.76	105.80
85	5	1121	U	N3-C2-O2	10.11	129.27	122.20
85	5	1214	U	N1-C2-N3	10.11	120.96	114.90
85	5	1942	U	C6-N1-C2	-10.11	114.94	121.00
38	8	2	A	N1-C6-N6	-10.11	112.54	118.60
36	1	237	G	O5'-P-OP2	-10.10	96.61	105.70
36	1	515	C	C2-N3-C4	10.10	124.95	119.90
36	1	839	C	O5'-P-OP2	-10.10	96.61	105.70
36	1	2291	A	N9-C4-C5	10.10	109.84	105.80
80	6	953	G	C8-N9-C4	10.10	110.44	106.40
85	5	363	G	C5-N7-C8	-10.10	99.25	104.30
85	5	1124	U	C2-N3-C4	10.10	133.06	127.00
85	5	1309	U	O5'-P-OP1	-10.10	96.61	105.70
85	5	2386	A	N7-C8-N9	10.10	118.85	113.80
36	1	1314	C	N1-C2-N3	10.10	126.27	119.20
36	1	1340	G	C6-N1-C2	-10.10	119.04	125.10
85	5	1592	G	C5-C6-N1	-10.10	106.45	111.50
85	5	2576	G	N1-C6-O6	10.10	125.96	119.90
37	7	43	U	C5-C4-O4	10.10	131.96	125.90
38	8	23	U	N1-C2-N3	10.10	120.96	114.90
85	5	689	U	O5'-P-OP1	-10.10	96.61	105.70
85	5	958	C	C6-N1-C2	-10.10	116.26	120.30
85	5	1668	G	C4-C5-N7	-10.10	106.76	110.80
85	5	2930	A	N7-C8-N9	-10.10	108.75	113.80
85	5	3010	U	C5-C4-O4	10.10	131.96	125.90
1	2	603	U	N3-C2-O2	-10.10	115.13	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	535	G	C2-N3-C4	-10.10	106.85	111.90
38	8	66	A	N9-C4-C5	10.10	109.84	105.80
36	1	899	U	C5-C4-O4	10.10	131.96	125.90
85	5	837	A	N7-C8-N9	-10.10	108.75	113.80
85	5	1742	U	N3-C4-O4	10.10	126.47	119.40
85	5	3066	U	C5-C4-O4	10.10	131.96	125.90
36	1	376	G	C2-N3-C4	-10.09	106.85	111.90
36	1	709	A	N7-C8-N9	-10.09	108.75	113.80
36	1	2758	A	C2-N3-C4	10.09	115.65	110.60
38	4	108	C	C6-N1-C2	-10.09	116.26	120.30
80	6	619	A	C5-C6-N1	10.09	122.75	117.70
80	6	1001	A	C8-N9-C4	-10.09	101.76	105.80
85	5	647	A	OP1-P-OP2	-10.09	104.46	119.60
85	5	1473	G	C4-C5-N7	-10.09	106.76	110.80
85	5	1537	A	OP1-P-OP2	-10.09	104.46	119.60
37	7	87	G	C5-C6-O6	-10.09	122.54	128.60
85	5	2153	U	N3-C4-O4	10.09	126.47	119.40
85	5	2312	A	C8-N9-C4	-10.09	101.76	105.80
85	5	2399	A	N1-C2-N3	10.09	134.35	129.30
36	1	744	A	C8-N9-C4	10.09	109.84	105.80
36	1	2811	A	C5-N7-C8	-10.09	98.85	103.90
80	6	308	C	N1-C2-O2	10.09	124.95	118.90
80	6	426	G	C4-C5-C6	10.09	124.86	118.80
85	5	647	A	C4-C5-N7	-10.09	105.66	110.70
85	5	753	C	C6-N1-C2	10.09	124.34	120.30
85	5	2380	U	O5'-P-OP2	-10.09	96.62	105.70
36	1	700	C	C4-C5-C6	10.09	122.44	117.40
85	5	2335	G	N1-C6-O6	-10.09	113.85	119.90
36	1	80	G	N7-C8-N9	-10.09	108.06	113.10
36	1	323	A	C5-N7-C8	10.09	108.94	103.90
36	1	656	A	C5-N7-C8	-10.09	98.86	103.90
36	1	939	U	C5-C4-O4	-10.09	119.85	125.90
36	1	2307	G	C2-N3-C4	-10.09	106.86	111.90
36	1	2443	A	N1-C6-N6	10.09	124.65	118.60
36	1	2869	U	N3-C4-O4	10.09	126.46	119.40
85	5	2375	G	N9-C4-C5	10.09	109.43	105.40
85	5	2756	C	C6-N1-C2	-10.09	116.27	120.30
85	5	3350	C	C4-C5-C6	-10.09	112.36	117.40
46	19	31	ARG	NE-CZ-NH2	10.09	125.34	120.30
36	1	964	G	N1-C2-N2	10.08	125.28	116.20
36	1	1206	G	C8-N9-C4	-10.08	102.37	106.40
36	1	3295	A	C6-N1-C2	-10.08	112.55	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	103	G	C4-C5-N7	-10.08	106.77	110.80
85	5	3299	A	N1-C2-N3	10.08	134.34	129.30
36	1	676	G	C6-C5-N7	-10.08	124.35	130.40
85	5	1203	A	C6-N1-C2	-10.08	112.55	118.60
85	5	2231	C	C6-N1-C2	-10.08	116.27	120.30
85	5	2625	C	N1-C2-O2	-10.08	112.85	118.90
1	2	1060	C	C6-N1-C2	-10.08	116.27	120.30
36	1	1861	G	N1-C2-N3	-10.08	117.85	123.90
80	6	1656	U	C5-C6-N1	10.08	127.74	122.70
85	5	91	G	N1-C2-N3	10.08	129.95	123.90
85	5	1872	C	N3-C4-N4	-10.08	110.94	118.00
85	5	2866	U	OP1-P-OP2	-10.08	104.48	119.60
85	5	3039	C	C4-C5-C6	10.08	122.44	117.40
36	1	433	A	C8-N9-C4	10.08	109.83	105.80
85	5	367	A	C5-C6-N6	-10.08	115.64	123.70
36	1	2369	G	C4-C5-N7	-10.08	106.77	110.80
36	1	3051	U	N3-C2-O2	10.08	129.25	122.20
80	6	463	U	C4-C5-C6	10.08	125.75	119.70
85	5	928	C	C5-C4-N4	10.08	127.25	120.20
85	5	2899	C	C6-N1-C2	-10.08	116.27	120.30
36	1	1507	G	C5-C6-O6	-10.07	122.56	128.60
36	1	1544	G	C5-C6-N1	10.07	116.54	111.50
36	1	3184	A	C5-C6-N1	10.07	122.74	117.70
80	6	81	G	O5'-P-OP2	-10.07	96.63	105.70
85	5	2768	U	O5'-P-OP2	10.07	122.79	110.70
85	5	684	G	O5'-P-OP2	-10.07	96.63	105.70
36	1	3053	G	N1-C2-N3	10.07	129.94	123.90
85	5	646	A	C2-N3-C4	-10.07	105.56	110.60
85	5	1508	C	N1-C2-N3	10.07	126.25	119.20
1	2	509	G	N1-C6-O6	10.07	125.94	119.90
36	1	402	A	C6-N1-C2	-10.07	112.56	118.60
36	1	656	A	N7-C8-N9	10.07	118.83	113.80
36	1	1896	A	O5'-P-OP1	-10.07	96.64	105.70
36	1	2359	C	N3-C4-C5	-10.07	117.87	121.90
85	5	968	G	C8-N9-C4	10.07	110.43	106.40
85	5	1886	A	O5'-P-OP2	-10.07	96.64	105.70
85	5	2636	A	O5'-P-OP1	-10.07	96.64	105.70
85	5	3003	G	N3-C2-N2	-10.07	112.85	119.90
36	1	1430	U	OP1-P-OP2	10.07	134.70	119.60
36	1	2632	G	C5-C6-N1	10.07	116.53	111.50
85	5	1120	A	O5'-P-OP2	-10.07	96.64	105.70
85	5	1346	G	C8-N9-C4	-10.07	102.37	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1609	C	O5'-P-OP2	-10.07	96.64	105.70
85	5	2861	U	N1-C2-N3	10.07	120.94	114.90
36	1	280	U	C4-C5-C6	10.06	125.74	119.70
36	1	1192	C	N3-C4-C5	-10.06	117.88	121.90
36	1	1870	C	N1-C2-O2	-10.06	112.86	118.90
36	1	2878	G	N3-C2-N2	-10.06	112.86	119.90
80	6	43	A	C6-N1-C2	-10.06	112.56	118.60
85	5	128	G	C4-C5-N7	-10.06	106.77	110.80
85	5	433	A	C5-C6-N1	-10.06	112.67	117.70
85	5	966	U	C5-C6-N1	10.06	127.73	122.70
85	5	1649	U	N3-C2-O2	10.06	129.25	122.20
85	5	2181	C	N3-C2-O2	10.06	128.94	121.90
85	5	2876	C	O5'-P-OP2	-10.06	96.64	105.70
1	2	748	G	C5-C6-O6	-10.06	122.56	128.60
36	1	70	A	C2-N3-C4	-10.06	105.57	110.60
36	1	2705	A	C8-N9-C4	10.06	109.82	105.80
38	4	72	A	C2-N3-C4	-10.06	105.57	110.60
85	5	1390	A	N9-C4-C5	10.06	109.82	105.80
85	5	2356	A	C8-N9-C4	-10.06	101.78	105.80
85	5	2976	A	C5-C6-N6	10.06	131.75	123.70
85	5	3379	C	N3-C4-C5	-10.06	117.88	121.90
38	4	88	A	N1-C6-N6	-10.06	112.56	118.60
85	5	342	A	C5-C6-N1	10.06	122.73	117.70
85	5	816	A	C8-N9-C4	-10.06	101.78	105.80
36	1	2746	A	N1-C6-N6	-10.06	112.57	118.60
36	1	2863	G	N1-C6-O6	10.06	125.93	119.90
80	6	95	G	C5-C6-O6	10.06	134.63	128.60
36	1	33	G	C6-N1-C2	-10.05	119.07	125.10
36	1	2752	U	N3-C2-O2	-10.06	115.16	122.20
36	1	2822	U	N3-C2-O2	10.06	129.24	122.20
38	4	40	A	C5-N7-C8	-10.06	98.87	103.90
36	1	885	U	N3-C4-O4	-10.05	112.36	119.40
85	5	1446	A	C2-N3-C4	10.05	115.63	110.60
85	5	2189	U	N3-C4-C5	-10.05	108.57	114.60
36	1	1793	C	N3-C2-O2	-10.05	114.86	121.90
85	5	2304	C	N1-C2-N3	10.05	126.24	119.20
36	1	262	U	N3-C2-O2	10.05	129.24	122.20
36	1	1183	C	C5-C4-N4	-10.05	113.16	120.20
85	5	34	A	OP2-P-O3'	10.05	127.31	105.20
85	5	425	G	C6-C5-N7	-10.05	124.37	130.40
85	5	514	G	C8-N9-C4	-10.05	102.38	106.40
85	5	1069	C	C2-N3-C4	-10.05	114.88	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	951	A	C2-N3-C4	-10.05	105.58	110.60
36	1	2364	G	C4-C5-N7	-10.05	106.78	110.80
85	5	910	G	N3-C4-C5	10.05	133.62	128.60
85	5	1060	U	O5'-P-OP2	-10.05	96.66	105.70
85	5	2815	G	C2-N3-C4	10.05	116.92	111.90
85	5	2240	G	N1-C6-O6	-10.05	113.87	119.90
36	1	76	G	C8-N9-C4	-10.05	102.38	106.40
36	1	211	A	N1-C2-N3	10.05	134.32	129.30
36	1	564	G	C4-C5-N7	-10.04	106.78	110.80
36	1	2695	A	N1-C6-N6	-10.05	112.57	118.60
85	5	187	A	O5'-P-OP2	10.05	122.76	110.70
85	5	2363	A	C6-C5-N7	-10.05	125.27	132.30
38	4	33	A	C5-C6-N1	-10.04	112.68	117.70
85	5	3182	G	C6-N1-C2	-10.04	119.07	125.10
1	2	608	U	C5-C6-N1	-10.04	117.68	122.70
36	1	2361	A	OP2-P-O3'	10.04	127.29	105.20
80	6	897	C	C4-C5-C6	10.04	122.42	117.40
85	5	41	G	C8-N9-C4	10.04	110.42	106.40
85	5	329	U	N3-C2-O2	-10.04	115.17	122.20
85	5	2160	G	N1-C6-O6	-10.04	113.88	119.90
36	1	185	C	O5'-P-OP2	-10.04	96.67	105.70
80	6	632	U	N3-C2-O2	-10.04	115.17	122.20
85	5	760	G	C6-C5-N7	-10.04	124.38	130.40
85	5	1440	G	C5-C6-N1	-10.04	106.48	111.50
85	5	3373	U	N3-C2-O2	-10.04	115.17	122.20
38	8	8	C	C6-N1-C2	-10.04	116.28	120.30
36	1	658	G	C2-N3-C4	-10.04	106.88	111.90
36	1	2298	U	N3-C4-O4	-10.04	112.37	119.40
85	5	1346	G	C6-C5-N7	-10.04	124.38	130.40
85	5	2385	G	C6-N1-C2	10.04	131.12	125.10
85	5	2894	C	C6-N1-C2	-10.04	116.28	120.30
1	2	440	U	C5-C6-N1	-10.03	117.68	122.70
36	1	3057	U	O5'-P-OP1	-10.03	96.67	105.70
36	1	3069	G	N1-C6-O6	-10.04	113.88	119.90
85	5	1704	A	C5-C6-N1	-10.03	112.68	117.70
85	5	2364	G	N7-C8-N9	10.03	118.12	113.10
85	5	2411	U	C2-N3-C4	-10.03	120.98	127.00
36	1	350	C	N3-C2-O2	-10.03	114.88	121.90
36	1	2176	U	N1-C2-N3	10.03	120.92	114.90
36	1	914	A	C6-N1-C2	-10.03	112.58	118.60
36	1	2095	G	C5-C6-N1	10.03	116.52	111.50
36	1	2398	A	C6-N1-C2	-10.03	112.58	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	204	A	N1-C6-N6	-10.03	112.58	118.60
85	5	1447	G	N3-C4-C5	-10.03	123.58	128.60
80	6	15	U	N3-C2-O2	-10.03	115.18	122.20
85	5	622	A	N7-C8-N9	-10.03	108.78	113.80
85	5	1295	G	C5-C6-N1	-10.03	106.49	111.50
85	5	2888	U	C2-N1-C1'	10.03	129.73	117.70
85	5	3018	C	C2-N3-C4	-10.03	114.89	119.90
1	2	105	A	N1-C6-N6	-10.03	112.58	118.60
36	1	1157	G	C4-C5-N7	-10.03	106.79	110.80
36	1	2419	A	C2-N3-C4	-10.03	105.59	110.60
36	1	2790	A	O5'-P-OP2	-10.03	96.68	105.70
36	1	2806	U	O5'-P-OP2	-10.03	96.68	105.70
85	5	311	C	N3-C4-N4	-10.03	110.98	118.00
85	5	372	A	OP1-P-OP2	10.03	134.64	119.60
85	5	542	G	C4-C5-N7	10.03	114.81	110.80
85	5	1184	A	C4-C5-N7	-10.03	105.69	110.70
36	1	97	U	N3-C2-O2	10.02	129.22	122.20
36	1	189	G	O5'-P-OP1	-10.02	96.68	105.70
36	1	1425	U	C2-N3-C4	-10.02	120.98	127.00
36	1	1893	A	C5-N7-C8	-10.02	98.89	103.90
38	4	9	A	C5-C6-N1	10.02	122.71	117.70
38	4	80	A	O5'-P-OP1	10.02	122.73	110.70
85	5	2405	C	N3-C4-C5	10.02	125.91	121.90
85	5	2966	G	C5-N7-C8	-10.02	99.29	104.30
36	1	212	G	O5'-P-OP1	10.02	122.73	110.70
85	5	640	U	OP1-P-OP2	-10.02	104.57	119.60
85	5	1331	U	N1-C2-N3	10.02	120.91	114.90
85	5	1543	G	C5-N7-C8	-10.02	99.29	104.30
85	5	2373	A	C8-N9-C4	-10.02	101.79	105.80
85	5	2863	G	N1-C2-N2	-10.02	107.18	116.20
36	1	585	A	N9-C4-C5	-10.02	101.79	105.80
36	1	2401	A	N3-C4-C5	10.02	133.81	126.80
41	L4	203	ARG	NE-CZ-NH1	10.02	125.31	120.30
36	1	143	G	N1-C6-O6	-10.02	113.89	119.90
36	1	597	G	C5-C6-N1	10.02	116.51	111.50
36	1	1010	G	O5'-P-OP2	-10.02	96.68	105.70
80	6	35	U	C4-C5-C6	10.02	125.71	119.70
85	5	609	G	N1-C6-O6	10.02	125.91	119.90
85	5	2297	U	N3-C2-O2	10.02	129.21	122.20
85	5	2364	G	C5-N7-C8	-10.02	99.29	104.30
36	1	2403	G	N3-C2-N2	-10.02	112.89	119.90
36	1	2852	C	N3-C2-O2	-10.02	114.89	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	374	A	N7-C8-N9	10.02	118.81	113.80
37	3	28	C	O5'-P-OP2	10.02	122.72	110.70
85	5	916	G	N3-C2-N2	-10.02	112.89	119.90
85	5	1471	U	C5-C6-N1	-10.02	117.69	122.70
85	5	2283	G	C5-C6-N1	-10.02	106.49	111.50
85	5	2735	U	C5-C6-N1	10.02	127.71	122.70
85	5	2887	A	C8-N9-C4	-10.02	101.79	105.80
85	5	2960	C	C6-N1-C2	-10.02	116.29	120.30
85	5	3390	G	N1-C6-O6	10.02	125.91	119.90
37	7	27	A	N1-C6-N6	10.02	124.61	118.60
36	1	363	G	N1-C2-N3	10.01	129.91	123.90
36	1	436	A	N1-C6-N6	10.01	124.61	118.60
85	5	1193	A	C5-C6-N6	10.01	131.71	123.70
36	1	908	G	O4'-C1'-N9	-10.01	100.19	108.20
36	1	2807	U	N3-C2-O2	10.01	129.21	122.20
80	6	1663	G	O5'-P-OP1	10.01	122.71	110.70
85	5	393	U	C5-C6-N1	10.01	127.70	122.70
85	5	2906	C	O5'-P-OP1	10.01	122.71	110.70
85	5	1440	G	C6-C5-N7	-10.01	124.39	130.40
85	5	1790	G	C2-N3-C4	-10.01	106.90	111.90
85	5	2974	U	C2-N3-C4	-10.01	120.99	127.00
85	5	3202	G	N1-C2-N3	10.01	129.91	123.90
38	4	116	G	N7-C8-N9	-10.01	108.10	113.10
85	5	1604	G	C4-C5-N7	-10.01	106.80	110.80
85	5	2619	G	C2-N3-C4	10.01	116.90	111.90
36	1	182	U	N3-C4-O4	-10.01	112.40	119.40
36	1	2387	A	C2-N3-C4	-10.01	105.60	110.60
36	1	2957	G	C8-N9-C4	10.01	110.40	106.40
80	6	611	U	C5-C6-N1	-10.01	117.70	122.70
80	6	1777	G	N3-C2-N2	-10.01	112.89	119.90
85	5	109	A	OP2-P-O3'	10.01	127.21	105.20
85	5	348	A	C2-N3-C4	-10.01	105.60	110.60
85	5	875	G	N9-C4-C5	10.01	109.40	105.40
85	5	1173	U	N1-C2-O2	10.01	129.80	122.80
85	5	2320	A	C5-C6-N1	-10.01	112.70	117.70
85	5	3120	C	C4-C5-C6	-10.01	112.40	117.40
36	1	635	G	C6-N1-C2	-10.00	119.10	125.10
36	1	1518	U	C2-N3-C4	-10.00	121.00	127.00
85	5	983	A	C8-N9-C4	-10.00	101.80	105.80
37	7	28	C	N1-C2-O2	-10.00	112.90	118.90
41	14	138	ARG	NE-CZ-NH1	-10.00	115.30	120.30
36	1	239	G	N7-C8-N9	10.00	118.10	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	3	116	C	N3-C4-C5	10.00	125.90	121.90
85	5	972	A	C4-C5-C6	10.00	122.00	117.00
85	5	1534	A	C4-C5-C6	10.00	122.00	117.00
36	1	3080	G	C2-N3-C4	10.00	116.90	111.90
38	4	2	A	C2-N3-C4	-10.00	105.60	110.60
85	5	963	G	C2-N3-C4	10.00	116.90	111.90
85	5	1140	G	N9-C4-C5	-10.00	101.40	105.40
85	5	1181	U	O5'-P-OP2	10.00	122.70	110.70
85	5	2200	U	N1-C2-N3	10.00	120.90	114.90
47	m0	3	ARG	NE-CZ-NH1	10.00	125.30	120.30
85	5	2970	C	C4-C5-C6	10.00	122.40	117.40
1	2	1083	G	C6-C5-N7	-9.99	124.40	130.40
36	1	952	A	C8-N9-C4	-9.99	101.80	105.80
80	6	168	A	C8-N9-C4	-9.99	101.80	105.80
80	6	1353	U	C2-N3-C4	9.99	133.00	127.00
85	5	303	G	OP1-P-OP2	9.99	134.59	119.60
38	8	112	U	C4-C5-C6	-9.99	113.70	119.70
36	1	637	C	C2-N3-C4	-9.99	114.90	119.90
36	1	2746	A	C8-N9-C4	-9.99	101.80	105.80
85	5	970	A	N7-C8-N9	-9.99	108.80	113.80
85	5	1401	A	C5-C6-N1	9.99	122.70	117.70
85	5	1857	C	C6-N1-C2	-9.99	116.30	120.30
85	5	2584	G	C8-N9-C4	-9.99	102.40	106.40
85	5	3071	U	C4-C5-C6	9.99	125.70	119.70
36	1	640	U	N3-C4-O4	9.99	126.39	119.40
36	1	1526	U	N1-C2-N3	9.99	120.89	114.90
38	4	58	G	N1-C2-N3	9.99	129.89	123.90
80	6	1726	G	C8-N9-C4	9.99	110.40	106.40
85	5	220	G	N1-C2-N2	-9.99	107.21	116.20
85	5	382	U	N1-C2-N3	9.99	120.89	114.90
85	5	513	G	N9-C4-C5	9.99	109.40	105.40
85	5	2117	A	N3-C4-C5	-9.99	119.81	126.80
85	5	2185	G	O5'-P-OP1	-9.99	96.71	105.70
85	5	1425	U	N1-C2-N3	9.99	120.89	114.90
85	5	2968	G	C8-N9-C4	9.99	110.40	106.40
85	5	1885	U	O5'-P-OP2	-9.99	96.71	105.70
36	1	685	G	O5'-P-OP2	-9.99	96.71	105.70
36	1	2245	C	C6-N1-C2	-9.99	116.31	120.30
36	1	3057	U	N3-C4-O4	-9.99	112.41	119.40
68	o2	47	ARG	NE-CZ-NH1	9.99	125.29	120.30
36	1	215	G	N3-C2-N2	-9.98	112.91	119.90
36	1	1107	C	N3-C4-N4	9.98	124.99	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1203	A	N1-C6-N6	-9.98	112.61	118.60
37	3	78	U	C5-C4-O4	-9.98	119.91	125.90
38	4	102	U	N3-C4-C5	-9.98	108.61	114.60
80	6	1650	U	N3-C4-O4	9.98	126.39	119.40
85	5	3214	U	N3-C4-O4	-9.98	112.41	119.40
85	5	2234	G	N9-C4-C5	-9.98	101.41	105.40
1	2	1079	C	C6-N1-C2	-9.98	116.31	120.30
85	5	1169	A	O5'-P-OP2	-9.98	96.72	105.70
36	1	2873	U	N3-C4-C5	-9.98	108.61	114.60
36	1	2968	G	C5-C6-N1	-9.98	106.51	111.50
85	5	308	A	N1-C2-N3	9.98	134.29	129.30
85	5	664	U	C5-C4-O4	-9.98	119.91	125.90
85	5	1361	U	N3-C2-O2	9.98	129.19	122.20
85	5	2740	A	O5'-P-OP1	9.98	122.68	110.70
36	1	582	G	N3-C4-C5	9.98	133.59	128.60
37	3	28	C	OP1-P-OP2	-9.98	104.63	119.60
37	3	112	G	C8-N9-C4	-9.98	102.41	106.40
85	5	674	G	N3-C4-N9	-9.98	120.01	126.00
85	5	2155	G	N9-C4-C5	-9.98	101.41	105.40
37	7	23	A	C5-C6-N1	9.98	122.69	117.70
36	1	986	U	C2-N3-C4	-9.98	121.01	127.00
36	1	1323	G	C4-C5-N7	-9.98	106.81	110.80
36	1	2888	U	C2-N3-C4	-9.98	121.01	127.00
85	5	2636	A	N1-C2-N3	-9.98	124.31	129.30
85	5	2843	U	N3-C4-O4	-9.98	112.42	119.40
85	5	2878	G	C8-N9-C4	-9.98	102.41	106.40
36	1	3188	G	N7-C8-N9	9.97	118.09	113.10
36	1	209	A	O5'-P-OP1	-9.97	96.72	105.70
36	1	577	C	N1-C2-O2	-9.97	112.92	118.90
85	5	984	G	C2-N3-C4	-9.97	106.91	111.90
85	5	3033	A	C6-N1-C2	-9.97	112.62	118.60
36	1	973	A	C2-N3-C4	-9.97	105.61	110.60
36	1	1377	G	OP1-P-OP2	9.97	134.56	119.60
85	5	1803	C	C6-N1-C2	9.97	124.29	120.30
36	1	569	A	C2-N3-C4	-9.97	105.62	110.60
36	1	569	A	N7-C8-N9	-9.97	108.81	113.80
36	1	1683	A	C6-C5-N7	-9.97	125.32	132.30
36	1	1751	G	C8-N9-C4	9.97	110.39	106.40
36	1	2119	A	C4-C5-N7	9.97	115.68	110.70
36	1	2128	C	O5'-P-OP2	-9.97	96.73	105.70
85	5	1155	C	C2-N1-C1'	9.97	129.77	118.80
85	5	2361	A	C8-N9-C4	-9.97	101.81	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	508	U	C2-N3-C4	9.97	132.98	127.00
85	5	1119	C	C4-C5-C6	9.97	122.38	117.40
85	5	1886	A	C5-N7-C8	-9.97	98.92	103.90
85	5	2317	A	C6-N1-C2	-9.97	112.62	118.60
85	5	2929	C	N1-C2-O2	9.97	124.88	118.90
37	3	120	C	C5-C6-N1	-9.97	116.02	121.00
36	1	983	A	N1-C2-N3	9.96	134.28	129.30
36	1	2861	U	N1-C2-N3	9.96	120.88	114.90
85	5	571	U	N1-C2-N3	9.96	120.88	114.90
85	5	2176	U	N1-C2-N3	9.97	120.88	114.90
85	5	2527	G	N7-C8-N9	-9.97	108.12	113.10
85	5	2700	G	C5-C6-O6	-9.97	122.62	128.60
85	5	1849	C	C2-N3-C4	-9.96	114.92	119.90
37	7	116	C	C5-C6-N1	9.96	125.98	121.00
36	1	1307	G	N1-C6-O6	-9.96	113.92	119.90
36	1	2937	G	C4-C5-C6	-9.96	112.82	118.80
36	1	3365	U	N1-C2-N3	9.96	120.88	114.90
37	7	77	G	C5-C6-N1	9.96	116.48	111.50
85	5	3138	U	C5-C6-N1	9.96	127.68	122.70
1	2	448	C	C6-N1-C2	-9.96	116.32	120.30
36	1	627	U	N3-C4-C5	-9.96	108.63	114.60
80	6	386	G	C5-C6-N1	9.96	116.48	111.50
85	5	811	U	OP1-P-OP2	-9.96	104.67	119.60
85	5	1895	A	C5-C6-N1	9.96	122.68	117.70
85	5	2201	G	C5-N7-C8	9.96	109.28	104.30
85	5	2397	A	N1-C6-N6	-9.96	112.62	118.60
85	5	3143	C	N3-C4-C5	-9.96	117.92	121.90
85	5	2339	C	N3-C2-O2	-9.96	114.93	121.90
85	5	2952	G	N7-C8-N9	9.96	118.08	113.10
36	1	699	A	C2-N3-C4	-9.95	105.62	110.60
36	1	2238	G	C5-C6-O6	-9.95	122.63	128.60
36	1	2607	G	C5-C6-N1	-9.96	106.52	111.50
80	6	1567	U	N3-C4-C5	9.96	120.57	114.60
85	5	2410	U	C6-N1-C2	-9.96	115.03	121.00
80	6	1653	C	C5-C6-N1	-9.95	116.02	121.00
37	7	77	G	C8-N9-C4	9.95	110.38	106.40
36	1	1313	G	C5-N7-C8	-9.95	99.32	104.30
36	1	1333	C	OP1-P-OP2	-9.95	104.67	119.60
37	3	49	G	C8-N9-C4	9.95	110.38	106.40
80	6	264	G	C8-N9-C1'	9.95	139.94	127.00
85	5	2390	A	O5'-P-OP2	-9.95	96.74	105.70
85	5	3023	U	N3-C4-O4	9.95	126.37	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2740	A	C8-N9-C4	-9.95	101.82	105.80
80	6	562	G	C2-N3-C4	-9.95	106.92	111.90
36	1	648	C	N3-C4-C5	-9.95	117.92	121.90
36	1	2376	G	C8-N9-C4	-9.95	102.42	106.40
85	5	1414	G	C5-N7-C8	-9.95	99.33	104.30
1	2	1271	G	N1-C6-O6	-9.95	113.93	119.90
36	1	43	A	N3-C4-C5	9.95	133.76	126.80
36	1	582	G	O5'-P-OP2	-9.95	96.75	105.70
36	1	709	A	C2-N3-C4	9.95	115.57	110.60
36	1	2639	G	C8-N9-C4	-9.94	102.42	106.40
36	1	2727	A	N1-C2-N3	9.95	134.27	129.30
80	6	1266	U	C5-C6-N1	9.95	127.67	122.70
85	5	780	A	C2-N3-C4	-9.95	105.63	110.60
1	2	16	G	C6-N1-C2	-9.94	119.13	125.10
80	6	624	G	N3-C4-C5	9.94	133.57	128.60
1	2	1297	U	N3-C2-O2	-9.94	115.24	122.20
36	1	206	G	C5-C6-O6	-9.94	122.64	128.60
36	1	921	A	C4-C5-N7	-9.94	105.73	110.70
36	1	1115	G	C8-N9-C4	-9.94	102.42	106.40
85	5	524	U	C5-C6-N1	-9.94	117.73	122.70
36	1	1131	G	C6-N1-C2	-9.94	119.14	125.10
80	6	86	A	C5-C6-N1	9.94	122.67	117.70
85	5	61	A	C5-C6-N1	-9.94	112.73	117.70
85	5	1848	G	C5-N7-C8	-9.94	99.33	104.30
85	5	2415	C	N1-C2-O2	9.94	124.86	118.90
85	5	3052	G	N1-C2-N3	9.94	129.87	123.90
37	7	107	C	O5'-P-OP1	9.94	122.63	110.70
85	5	2718	U	N1-C2-N3	9.94	120.86	114.90
85	5	1176	C	C5-C6-N1	9.94	125.97	121.00
36	1	159	A	C5-C6-N1	-9.94	112.73	117.70
36	1	1148	G	N9-C4-C5	-9.94	101.42	105.40
85	5	2372	A	C8-N9-C4	-9.94	101.82	105.80
38	8	103	G	N1-C2-N3	9.94	129.86	123.90
1	2	332	U	O5'-P-OP2	-9.94	96.76	105.70
1	2	956	A	N1-C2-N3	9.94	134.27	129.30
36	1	718	G	C5-N7-C8	-9.94	99.33	104.30
36	1	927	C	N3-C4-C5	-9.94	117.92	121.90
36	1	2403	G	C5-C6-N1	-9.94	106.53	111.50
36	1	3203	U	N1-C2-O2	-9.94	115.85	122.80
38	4	1	A	C5-N7-C8	-9.94	98.93	103.90
85	5	381	U	N1-C2-O2	-9.94	115.85	122.80
85	5	714	G	O5'-P-OP1	-9.94	96.76	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1523	U	N1-C2-O2	9.94	129.75	122.80
38	4	102	U	N1-C2-N3	9.93	120.86	114.90
36	1	346	C	C4-C5-C6	9.93	122.37	117.40
36	1	1502	C	N3-C2-O2	9.93	128.85	121.90
36	1	2397	A	C2-N3-C4	-9.93	105.63	110.60
36	1	3006	A	C8-N9-C4	-9.93	101.83	105.80
36	1	2403	G	C8-N9-C4	-9.93	102.43	106.40
36	1	2675	C	C5-C6-N1	-9.93	116.03	121.00
80	6	677	G	N3-C4-C5	9.93	133.57	128.60
85	5	418	A	C6-C5-N7	-9.93	125.35	132.30
85	5	497	C	C5-C4-N4	9.93	127.15	120.20
85	5	1673	G	C5-C6-N1	9.93	116.47	111.50
85	5	1880	U	N3-C4-O4	-9.93	112.45	119.40
36	1	334	A	C8-N9-C4	-9.93	101.83	105.80
37	3	86	U	N3-C2-O2	9.93	129.15	122.20
85	5	3307	A	C5-C6-N1	-9.93	112.73	117.70
36	1	1753	G	N9-C4-C5	-9.93	101.43	105.40
36	1	1764	U	N3-C4-O4	9.93	126.35	119.40
36	1	3127	A	O5'-P-OP2	-9.93	96.77	105.70
36	1	3376	A	N1-C2-N3	9.93	134.26	129.30
85	5	1370	G	N1-C2-N2	-9.93	107.27	116.20
36	1	1520	G	N1-C6-O6	-9.93	113.94	119.90
85	5	64	G	C6-C5-N7	-9.93	124.44	130.40
85	5	2988	C	C2-N3-C4	-9.93	114.94	119.90
80	6	1395	G	C5-C6-N1	-9.92	106.54	111.50
85	5	655	C	N1-C2-O2	-9.92	112.95	118.90
85	5	1127	G	O5'-P-OP2	-9.92	96.77	105.70
85	5	2188	A	N1-C2-N3	9.92	134.26	129.30
38	8	48	A	N1-C6-N6	-9.92	112.65	118.60
38	8	71	A	C8-N9-C4	9.92	109.77	105.80
36	1	677	A	OP1-P-OP2	-9.92	104.72	119.60
36	1	2721	A	C2-N3-C4	-9.92	105.64	110.60
36	1	2799	A	C6-N1-C2	-9.92	112.65	118.60
80	6	86	A	N1-C6-N6	-9.92	112.65	118.60
80	6	364	G	C6-C5-N7	-9.92	124.45	130.40
85	5	121	A	N9-C4-C5	-9.92	101.83	105.80
85	5	2352	A	C5-N7-C8	9.92	108.86	103.90
85	5	3271	G	N3-C2-N2	9.92	126.84	119.90
36	1	230	U	C2-N3-C4	-9.92	121.05	127.00
36	1	1698	C	N1-C2-N3	9.92	126.14	119.20
85	5	2602	G	N1-C2-N3	9.92	129.85	123.90
36	1	28	C	N1-C2-N3	9.92	126.14	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	969	C	N1-C2-O2	-9.92	112.95	118.90
36	1	2341	A	C5-C6-N1	9.92	122.66	117.70
85	5	3149	G	C4-C5-N7	9.92	114.77	110.80
1	2	780	G	C2-N3-C4	-9.91	106.94	111.90
36	1	131	C	N3-C4-C5	9.91	125.86	121.90
80	6	58	U	C5-C6-N1	9.91	127.66	122.70
36	1	405	U	C2-N1-C1'	9.91	129.59	117.70
36	1	1000	C	C5-C4-N4	-9.91	113.26	120.20
36	1	2731	U	N3-C4-O4	9.91	126.34	119.40
36	1	3289	G	N1-C6-O6	-9.91	113.95	119.90
80	6	1117	U	O5'-P-OP2	-9.91	96.78	105.70
85	5	668	G	C5-C6-O6	9.91	134.55	128.60
85	5	1386	A	OP1-P-OP2	9.91	134.47	119.60
85	5	2652	U	OP1-P-OP2	9.91	134.47	119.60
36	1	939	U	OP1-P-OP2	-9.91	104.74	119.60
36	1	1115	G	C5-C6-N1	-9.91	106.55	111.50
36	1	2637	A	C8-N9-C4	-9.91	101.84	105.80
36	1	2982	A	C6-N1-C2	-9.91	112.65	118.60
80	6	253	A	C8-N9-C4	9.91	109.76	105.80
85	5	295	A	N3-C4-C5	9.91	133.74	126.80
1	2	10	G	C2-N3-C4	9.91	116.85	111.90
36	1	433	A	C2-N3-C4	-9.91	105.65	110.60
36	1	779	G	N1-C2-N3	9.91	129.84	123.90
36	1	1435	A	N7-C8-N9	9.91	118.75	113.80
36	1	1734	G	C2-N3-C4	-9.91	106.95	111.90
36	1	1791	C	N3-C2-O2	9.91	128.84	121.90
36	1	3000	A	N3-C4-C5	9.91	133.73	126.80
36	1	3228	C	N3-C4-N4	-9.91	111.07	118.00
85	5	1185	C	C6-N1-C2	-9.91	116.34	120.30
85	5	1449	A	C5-N7-C8	9.91	108.85	103.90
85	5	2533	G	C4-C5-N7	9.91	114.76	110.80
85	5	2745	G	C2-N3-C4	-9.91	106.95	111.90
1	2	953	A	O5'-P-OP1	-9.90	96.79	105.70
36	1	1099	A	C2-N3-C4	-9.90	105.65	110.60
36	1	1074	U	O5'-P-OP2	9.90	122.58	110.70
36	1	2418	G	N1-C2-N3	-9.90	117.96	123.90
36	1	2740	A	N7-C8-N9	9.90	118.75	113.80
80	6	1279	C	N3-C2-O2	-9.90	114.97	121.90
85	5	28	C	C5-C6-N1	-9.90	116.05	121.00
85	5	1440	G	N3-C4-C5	9.90	133.55	128.60
85	5	2216	G	C8-N9-C4	-9.90	102.44	106.40
1	2	307	G	C5-N7-C8	9.90	109.25	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	630	A	O5'-P-OP2	-9.90	96.79	105.70
36	1	59	G	N3-C2-N2	-9.90	112.97	119.90
36	1	158	G	C2-N3-C4	-9.90	106.95	111.90
36	1	401	U	N3-C2-O2	-9.90	115.27	122.20
36	1	1576	G	N1-C6-O6	9.90	125.84	119.90
36	1	1789	G	C4-C5-N7	9.90	114.76	110.80
36	1	2992	U	N3-C4-C5	-9.90	108.66	114.60
80	6	770	A	C8-N9-C4	9.90	109.76	105.80
85	5	915	A	C5-C6-N1	9.90	122.65	117.70
85	5	2113	A	C8-N9-C4	9.90	109.76	105.80
36	1	2728	G	OP1-P-OP2	9.90	134.45	119.60
85	5	2692	A	C6-N1-C2	-9.90	112.66	118.60
38	8	15	G	C5-C6-O6	9.90	134.54	128.60
38	4	80	A	C5-C6-N6	9.90	131.62	123.70
80	6	537	G	C5-C6-O6	-9.90	122.66	128.60
85	5	76	G	C6-C5-N7	-9.90	124.46	130.40
85	5	801	A	C4-C5-N7	-9.90	105.75	110.70
85	5	1139	G	N1-C2-N2	-9.90	107.29	116.20
85	5	2355	G	C6-C5-N7	-9.90	124.46	130.40
38	8	42	G	C2-N3-C4	-9.90	106.95	111.90
36	1	1213	G	C5-C6-N1	9.89	116.45	111.50
80	6	1725	U	N3-C4-C5	-9.89	108.66	114.60
85	5	1129	A	C5-N7-C8	-9.89	98.95	103.90
36	1	2149	A	N7-C8-N9	-9.89	108.85	113.80
36	1	3255	U	C5-C6-N1	-9.89	117.75	122.70
80	6	645	C	C5-C6-N1	9.89	125.95	121.00
36	1	43	A	C8-N9-C4	9.89	109.76	105.80
36	1	2687	G	N9-C4-C5	9.89	109.36	105.40
85	5	937	G	N3-C2-N2	-9.89	112.98	119.90
85	5	3311	C	N1-C2-N3	-9.89	112.28	119.20
36	1	1373	A	C5-C6-N1	9.89	122.64	117.70
36	1	2652	U	O5'-P-OP2	-9.89	96.80	105.70
36	1	3114	A	N1-C6-N6	-9.89	112.67	118.60
80	6	451	A	C5-C6-N1	-9.89	112.76	117.70
85	5	1167	U	C4-C5-C6	9.89	125.63	119.70
85	5	3332	U	N1-C2-O2	-9.89	115.88	122.80
80	6	1777	G	C2-N3-C4	-9.89	106.96	111.90
85	5	629	U	N3-C4-O4	9.89	126.32	119.40
36	1	3182	G	N1-C2-N2	-9.89	107.30	116.20
85	5	371	G	N3-C4-N9	-9.89	120.07	126.00
36	1	1913	A	C5-C6-N6	-9.88	115.79	123.70
36	1	2290	C	C4-C5-C6	9.88	122.34	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3106	A	C5-N7-C8	-9.88	98.96	103.90
80	6	453	U	C6-N1-C2	-9.88	115.07	121.00
85	5	708	G	C6-C5-N7	-9.88	124.47	130.40
85	5	2878	G	N1-C6-O6	9.88	125.83	119.90
1	2	1771	G	C2-N3-C4	-9.88	106.96	111.90
36	1	564	G	N1-C6-O6	-9.88	113.97	119.90
36	1	2795	U	O5'-P-OP1	-9.88	96.81	105.70
85	5	1513	G	C6-C5-N7	-9.88	124.47	130.40
85	5	2740	A	N7-C8-N9	9.88	118.74	113.80
85	5	3382	U	N3-C2-O2	-9.88	115.28	122.20
36	1	389	A	N9-C4-C5	9.88	109.75	105.80
36	1	1903	U	N3-C4-C5	-9.88	108.67	114.60
80	6	540	G	N1-C6-O6	-9.88	113.97	119.90
85	5	53	G	C2-N3-C4	-9.88	106.96	111.90
80	6	800	U	C6-N1-C2	-9.88	115.07	121.00
80	6	1682	U	N3-C4-O4	9.88	126.31	119.40
85	5	349	A	N7-C8-N9	9.88	118.74	113.80
85	5	1922	A	C2-N3-C4	-9.88	105.66	110.60
37	7	10	C	C2-N3-C4	-9.88	114.96	119.90
1	2	1185	A	C2-N3-C4	9.87	115.54	110.60
36	1	805	G	C6-N1-C2	-9.88	119.17	125.10
36	1	3042	U	N3-C2-O2	9.88	129.11	122.20
80	6	1	U	O5'-P-OP2	-9.88	96.81	105.70
80	6	967	A	C2-N3-C4	9.88	115.54	110.60
85	5	1449	A	C6-N1-C2	-9.88	112.67	118.60
36	1	3102	G	N1-C2-N3	9.87	129.82	123.90
80	6	314	C	N3-C4-C5	-9.88	117.95	121.90
85	5	2258	U	N3-C2-O2	-9.88	115.29	122.20
85	5	315	C	OP1-P-OP2	9.87	134.41	119.60
85	5	706	A	C2-N3-C4	-9.87	105.66	110.60
85	5	1651	U	N3-C4-C5	-9.87	108.68	114.60
36	1	1401	A	C8-N9-C4	9.87	109.75	105.80
36	1	2276	G	C5-C6-N1	9.87	116.44	111.50
85	5	1357	G	N1-C2-N3	9.87	129.82	123.90
85	5	2188	A	C5-C6-N1	-9.87	112.76	117.70
36	1	12	A	N1-C6-N6	-9.87	112.68	118.60
85	5	867	G	N7-C8-N9	9.87	118.03	113.10
36	1	80	G	C2-N3-C4	-9.87	106.97	111.90
36	1	2886	U	C4-C5-C6	9.87	125.62	119.70
36	1	2977	G	O5'-P-OP2	-9.87	96.82	105.70
85	5	980	A	N1-C6-N6	-9.87	112.68	118.60
85	5	1154	A	C2-N3-C4	9.87	115.53	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2177	G	C5-C6-O6	9.87	134.52	128.60
85	5	2618	G	N3-C4-C5	-9.87	123.67	128.60
36	1	239	G	C8-N9-C4	-9.87	102.45	106.40
38	4	37	A	C5-C6-N1	9.87	122.63	117.70
36	1	882	A	O5'-P-OP2	-9.86	96.82	105.70
36	1	1182	A	C4-C5-C6	9.86	121.93	117.00
36	1	2159	U	N1-C2-O2	9.86	129.71	122.80
85	5	73	C	N1-C2-N3	9.86	126.10	119.20
85	5	689	U	N1-C2-O2	-9.87	115.89	122.80
38	8	138	A	C4-C5-C6	9.87	121.93	117.00
85	5	2915	U	O5'-P-OP2	-9.86	96.82	105.70
36	1	108	A	C5-C6-N1	9.86	122.63	117.70
36	1	1678	G	C5-N7-C8	-9.86	99.37	104.30
36	1	2837	A	C6-N1-C2	-9.86	112.68	118.60
37	3	41	G	C5-C6-N1	-9.86	106.57	111.50
80	6	884	A	N7-C8-N9	-9.86	108.87	113.80
85	5	641	C	N1-C2-N3	-9.86	112.30	119.20
80	6	422	G	C4-C5-N7	9.86	114.75	110.80
85	5	2777	G	N1-C6-O6	9.86	125.82	119.90
85	5	3089	C	C4-C5-C6	9.86	122.33	117.40
1	2	56	U	N1-C2-O2	9.86	129.70	122.80
36	1	494	G	O5'-P-OP2	-9.86	96.83	105.70
36	1	2861	U	C2-N3-C4	-9.86	121.08	127.00
36	1	2936	A	N1-C2-N3	9.86	134.23	129.30
36	1	3066	U	N3-C2-O2	-9.86	115.30	122.20
80	6	1100	G	C5-C6-O6	-9.86	122.69	128.60
85	5	306	A	N7-C8-N9	-9.86	108.87	113.80
85	5	1534	A	OP1-P-OP2	-9.86	104.81	119.60
85	5	1928	G	N3-C4-C5	9.86	133.53	128.60
36	1	1313	G	C4-C5-N7	9.86	114.74	110.80
36	1	978	G	N1-C6-O6	9.86	125.81	119.90
36	1	1796	G	N1-C6-O6	9.86	125.81	119.90
80	6	742	U	N3-C4-O4	9.86	126.30	119.40
80	6	1410	A	C2-N3-C4	-9.86	105.67	110.60
85	5	408	A	C4-C5-N7	-9.86	105.77	110.70
36	1	1368	U	N1-C2-N3	9.85	120.81	114.90
36	1	2796	G	O5'-P-OP1	-9.85	96.83	105.70
85	5	55	G	C5-C6-N1	-9.85	106.57	111.50
85	5	2727	A	N1-C6-N6	-9.85	112.69	118.60
1	2	1541	U	N3-C4-C5	9.85	120.51	114.60
36	1	1443	G	C5-N7-C8	-9.85	99.38	104.30
36	1	1527	C	N1-C2-N3	-9.85	112.30	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3152	U	N3-C4-O4	-9.85	112.50	119.40
85	5	1793	C	N3-C4-C5	-9.85	117.96	121.90
85	5	1804	A	C5-C6-N1	-9.85	112.77	117.70
85	5	2329	C	C4-C5-C6	9.85	122.33	117.40
85	5	3076	C	N1-C2-O2	-9.85	112.99	118.90
36	1	1521	G	C8-N9-C4	-9.85	102.46	106.40
36	1	1904	C	N1-C2-O2	-9.85	112.99	118.90
36	1	3075	G	C8-N9-C4	9.85	110.34	106.40
36	1	3221	C	N1-C2-O2	-9.85	112.99	118.90
80	6	606	A	C8-N9-C4	-9.85	101.86	105.80
80	6	1171	A	C8-N9-C4	-9.85	101.86	105.80
85	5	2328	U	N1-C2-N3	9.85	120.81	114.90
85	5	2652	U	N1-C2-N3	-9.85	108.99	114.90
80	6	645	C	C6-N1-C2	-9.85	116.36	120.30
80	6	1165	G	C8-N9-C4	9.85	110.34	106.40
36	1	1796	G	C4-C5-N7	9.85	114.74	110.80
36	1	2433	U	C4-C5-C6	-9.85	113.79	119.70
85	5	1184	A	C6-N1-C2	-9.85	112.69	118.60
85	5	234	G	N1-C6-O6	9.85	125.81	119.90
1	2	1127	U	C6-N1-C2	-9.84	115.09	121.00
1	2	1756	C	C6-N1-C2	-9.84	116.36	120.30
1	2	1768	U	C5-C6-N1	-9.84	117.78	122.70
80	6	943	C	O5'-P-OP2	-9.84	96.84	105.70
36	1	2170	U	C2-N3-C4	-9.84	121.09	127.00
36	1	2744	U	C4-C5-C6	9.84	125.61	119.70
36	1	2834	G	N1-C2-N3	9.84	129.81	123.90
36	1	2904	U	O5'-P-OP1	9.84	122.51	110.70
80	6	22	A	N1-C6-N6	-9.84	112.69	118.60
80	6	467	G	N7-C8-N9	-9.84	108.18	113.10
85	5	851	C	C4-C5-C6	9.84	122.32	117.40
85	5	1285	G	N3-C4-C5	-9.84	123.68	128.60
85	5	2093	A	C5-N7-C8	-9.84	98.98	103.90
85	5	2223	A	N7-C8-N9	9.84	118.72	113.80
85	5	2647	A	C5-N7-C8	-9.84	98.98	103.90
1	2	1148	G	C4-C5-N7	9.84	114.74	110.80
36	1	859	G	C8-N9-C4	-9.84	102.46	106.40
85	5	954	U	N1-C2-N3	9.84	120.81	114.90
1	2	1311	G	C8-N9-C4	9.84	110.34	106.40
36	1	2302	G	N1-C6-O6	-9.84	114.00	119.90
36	1	2943	G	C4-C5-N7	9.84	114.74	110.80
85	5	2295	A	N7-C8-N9	9.84	118.72	113.80
36	1	3377	G	N1-C6-O6	9.84	125.80	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
57	N1	12	ARG	NE-CZ-NH1	-9.84	115.38	120.30
85	5	397	A	C2-N3-C4	9.84	115.52	110.60
36	1	1301	A	O5'-P-OP1	-9.84	96.84	105.70
36	1	1476	G	N7-C8-N9	-9.84	108.18	113.10
37	3	3	U	N3-C2-O2	-9.84	115.31	122.20
85	5	1828	A	C8-N9-C4	-9.84	101.86	105.80
85	5	2606	G	C5-C6-O6	9.84	134.50	128.60
85	5	2810	C	OP1-P-OP2	-9.84	104.84	119.60
80	6	290	G	N3-C2-N2	-9.84	113.02	119.90
85	5	204	A	C6-N1-C2	-9.84	112.70	118.60
37	7	72	A	C5-C6-N1	9.84	122.62	117.70
1	2	1068	G	C5-C6-N1	9.83	116.42	111.50
36	1	135	C	N3-C4-C5	-9.83	117.97	121.90
85	5	991	G	C8-N9-C4	-9.83	102.47	106.40
36	1	1422	G	C5-C6-N1	9.83	116.42	111.50
85	5	1212	A	OP1-P-OP2	-9.83	104.85	119.60
85	5	1225	A	C8-N9-C4	-9.83	101.87	105.80
37	7	64	A	N1-C6-N6	-9.83	112.70	118.60
36	1	367	A	C8-N9-C4	-9.83	101.87	105.80
36	1	581	U	O5'-P-OP1	-9.83	96.85	105.70
36	1	797	U	N3-C2-O2	9.83	129.08	122.20
36	1	1056	U	OP1-P-OP2	-9.83	104.86	119.60
85	5	628	A	N1-C2-N3	9.83	134.22	129.30
36	1	1089	G	N7-C8-N9	-9.83	108.19	113.10
36	1	1401	A	N1-C2-N3	9.83	134.22	129.30
36	1	1603	A	C4-C5-N7	-9.83	105.78	110.70
36	1	3066	U	C4-C5-C6	9.83	125.60	119.70
36	1	3339	A	OP1-P-OP2	-9.83	104.85	119.60
85	5	1761	C	C2-N3-C4	9.83	124.81	119.90
36	1	932	U	N1-C2-N3	9.83	120.80	114.90
36	1	1196	C	O5'-P-OP1	-9.83	96.86	105.70
36	1	3310	A	C2-N3-C4	-9.83	105.69	110.60
85	5	2769	A	C2-N3-C4	-9.83	105.69	110.60
85	5	3327	G	N1-C2-N3	9.83	129.80	123.90
36	1	2833	A	C8-N9-C4	9.83	109.73	105.80
36	1	2878	G	C2-N3-C4	-9.83	106.99	111.90
80	6	972	G	C5-N7-C8	-9.83	99.39	104.30
85	5	202	G	C2-N3-C4	-9.83	106.99	111.90
85	5	425	G	OP1-P-OP2	-9.83	104.86	119.60
85	5	865	U	N3-C2-O2	9.83	129.08	122.20
85	5	1457	U	O5'-P-OP1	-9.83	96.86	105.70
36	1	656	A	C6-C5-N7	-9.82	125.42	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	808	A	N3-C4-C5	-9.82	119.92	126.80
36	1	837	A	C2-N3-C4	-9.82	105.69	110.60
36	1	1529	A	N1-C2-N3	9.82	134.21	129.30
36	1	1852	G	C5-C6-O6	-9.82	122.70	128.60
36	1	3005	A	N7-C8-N9	9.82	118.71	113.80
36	1	3137	C	O5'-P-OP2	-9.82	96.86	105.70
36	1	3266	G	N1-C2-N3	9.82	129.79	123.90
38	4	114	G	N1-C2-N2	9.82	125.04	116.20
85	5	2950	G	OP1-P-O3'	9.82	126.81	105.20
36	1	156	G	N1-C6-O6	9.82	125.79	119.90
36	1	755	A	N1-C6-N6	-9.82	112.71	118.60
36	1	1134	G	C6-N1-C2	-9.82	119.21	125.10
85	5	1656	A	N7-C8-N9	-9.82	108.89	113.80
85	5	2738	A	N1-C2-N3	9.82	134.21	129.30
85	5	2963	C	N3-C4-N4	9.82	124.88	118.00
36	1	18	G	C4-C5-N7	9.82	114.73	110.80
36	1	1658	G	O5'-P-OP2	-9.82	96.86	105.70
36	1	2897	A	N1-C2-N3	9.82	134.21	129.30
36	1	3058	U	OP1-P-OP2	9.82	134.33	119.60
80	6	1030	A	N1-C2-N3	9.82	134.21	129.30
85	5	2824	G	C4-C5-C6	9.82	124.69	118.80
85	5	2757	U	N3-C2-O2	-9.82	115.33	122.20
37	7	54	U	N1-C2-N3	9.82	120.79	114.90
37	7	110	G	C8-N9-C4	9.82	110.33	106.40
1	2	1148	G	C5-C6-N1	9.82	116.41	111.50
36	1	2623	G	N7-C8-N9	9.82	118.01	113.10
36	1	2890	A	N1-C2-N3	9.82	134.21	129.30
85	5	609	G	N3-C4-C5	9.82	133.51	128.60
85	5	828	A	C2-N3-C4	-9.82	105.69	110.60
85	5	2865	U	N1-C2-O2	9.82	129.67	122.80
85	5	3157	U	N1-C2-O2	9.82	129.67	122.80
36	1	2099	A	C2-N3-C4	-9.82	105.69	110.60
85	5	1721	U	C6-N1-C2	-9.82	115.11	121.00
85	5	2913	C	C6-N1-C2	-9.82	116.37	120.30
85	5	1296	C	N1-C2-N3	9.81	126.07	119.20
1	2	1588	G	N3-C4-C5	9.81	133.51	128.60
36	1	56	G	C5-N7-C8	-9.81	99.39	104.30
36	1	904	A	N1-C2-N3	9.81	134.21	129.30
85	5	867	G	C5-C6-O6	-9.81	122.71	128.60
85	5	1838	G	O5'-P-OP2	-9.81	96.87	105.70
36	1	2554	A	N7-C8-N9	-9.81	108.89	113.80
85	5	2824	G	C2-N3-C4	-9.81	106.99	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	186	U	N3-C2-O2	-9.81	115.33	122.20
36	1	3191	G	N1-C2-N3	9.81	129.79	123.90
38	4	95	G	C8-N9-C4	9.81	110.33	106.40
85	5	2618	G	N1-C2-N3	9.81	129.79	123.90
37	7	23	A	C6-N1-C2	-9.81	112.71	118.60
38	8	97	A	C5-C6-N1	-9.81	112.79	117.70
1	2	737	A	C8-N9-C4	9.81	109.72	105.80
36	1	677	A	O5'-P-OP2	9.81	122.47	110.70
36	1	2758	A	C4-C5-N7	-9.81	105.80	110.70
80	6	1670	G	C4-C5-C6	9.81	124.68	118.80
85	5	1375	G	N3-C4-C5	9.81	133.50	128.60
85	5	1656	A	C8-N9-C4	9.81	109.72	105.80
85	5	2896	A	N1-C2-N3	9.81	134.20	129.30
36	1	343	U	O5'-P-OP2	-9.80	96.88	105.70
36	1	1122	U	N1-C2-N3	9.80	120.78	114.90
36	1	1151	U	O5'-P-OP1	-9.80	96.88	105.70
36	1	2282	U	O5'-P-OP2	-9.81	96.87	105.70
36	1	2864	A	N1-C2-N3	9.80	134.20	129.30
85	5	2399	A	C5-N7-C8	-9.80	99.00	103.90
85	5	2863	G	N9-C4-C5	9.80	109.32	105.40
36	1	2670	G	O5'-P-OP1	9.80	122.46	110.70
80	6	45	U	C6-N1-C2	-9.80	115.12	121.00
85	5	569	A	C5-N7-C8	9.80	108.80	103.90
85	5	1889	G	C6-C5-N7	-9.80	124.52	130.40
1	2	635	A	C8-N9-C4	-9.80	101.88	105.80
85	5	2920	U	C6-N1-C2	-9.80	115.12	121.00
80	6	1144	U	C4-C5-C6	9.80	125.58	119.70
85	5	113	C	C5-C4-N4	-9.80	113.34	120.20
85	5	1923	C	C4-C5-C6	-9.80	112.50	117.40
36	1	2954	U	N3-C2-O2	9.80	129.06	122.20
36	1	151	A	C5-N7-C8	-9.80	99.00	103.90
80	6	588	U	OP1-P-OP2	-9.80	104.90	119.60
85	5	826	G	C5-N7-C8	-9.80	99.40	104.30
85	5	1430	U	OP1-P-OP2	9.80	134.30	119.60
85	5	1848	G	N3-C2-N2	9.80	126.76	119.90
85	5	1895	A	C5-N7-C8	-9.80	99.00	103.90
85	5	2528	G	C5-C6-O6	-9.80	122.72	128.60
36	1	73	C	C5-C6-N1	9.80	125.90	121.00
36	1	2418	G	O5'-P-OP2	-9.80	96.88	105.70
36	1	1193	A	C4-C5-C6	-9.79	112.10	117.00
36	1	1307	G	N1-C2-N2	-9.79	107.39	116.20
36	1	2890	A	N3-C4-C5	-9.79	119.94	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2943	G	C5-N7-C8	-9.79	99.40	104.30
38	4	123	G	C5-C6-N1	9.79	116.40	111.50
36	1	59	G	C4-C5-C6	9.79	124.68	118.80
36	1	3062	G	N1-C6-O6	9.79	125.78	119.90
85	5	1112	A	OP1-P-O3'	9.79	126.74	105.20
38	8	20	U	N3-C4-O4	9.79	126.25	119.40
36	1	28	C	N3-C4-N4	9.79	124.85	118.00
36	1	2121	G	N9-C4-C5	9.79	109.32	105.40
80	6	1086	A	C2-N3-C4	9.79	115.50	110.60
85	5	1143	A	C8-N9-C4	9.79	109.72	105.80
85	5	1475	A	C2-N3-C4	-9.79	105.70	110.60
85	5	1489	A	C8-N9-C4	-9.79	101.88	105.80
85	5	1907	C	O5'-P-OP1	-9.79	96.89	105.70
85	5	2634	U	N1-C2-O2	-9.79	115.95	122.80
85	5	3085	G	N1-C6-O6	-9.79	114.03	119.90
36	1	989	A	C4-C5-N7	9.79	115.59	110.70
36	1	1385	C	O5'-P-OP1	-9.79	96.89	105.70
38	4	64	U	N3-C4-O4	9.79	126.25	119.40
38	4	94	C	N3-C4-C5	9.79	125.82	121.90
80	6	1131	A	C5-C6-N6	-9.79	115.87	123.70
85	5	923	C	N3-C2-O2	-9.79	115.05	121.90
85	5	1589	A	C2-N3-C4	9.79	115.50	110.60
36	1	400	G	N1-C6-O6	9.79	125.77	119.90
80	6	1000	C	N1-C2-N3	9.79	126.05	119.20
36	1	89	A	N1-C6-N6	-9.79	112.73	118.60
36	1	899	U	C4-C5-C6	9.78	125.57	119.70
36	1	983	A	O5'-P-OP2	9.78	122.44	110.70
36	1	2097	U	C2-N3-C4	9.79	132.87	127.00
36	1	2684	C	N1-C2-O2	-9.78	113.03	118.90
36	1	3006	A	N7-C8-N9	9.78	118.69	113.80
80	6	616	G	O5'-P-OP1	-9.79	96.89	105.70
85	5	701	G	C4-C5-N7	-9.79	106.89	110.80
85	5	882	A	C6-N1-C2	-9.79	112.73	118.60
85	5	1403	C	N1-C2-O2	-9.79	113.03	118.90
85	5	2898	G	N3-C4-N9	-9.79	120.13	126.00
85	5	3022	G	N9-C4-C5	9.79	109.31	105.40
85	5	3184	A	C4-C5-N7	9.79	115.59	110.70
36	1	3375	A	O5'-P-OP2	-9.78	96.90	105.70
85	5	301	G	N7-C8-N9	-9.78	108.21	113.10
85	5	2986	U	N1-C2-O2	-9.78	115.95	122.80
85	5	3117	C	N3-C4-N4	-9.78	111.15	118.00
85	5	3222	U	C5-C6-N1	9.78	127.59	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	7	79	A	O5'-P-OP2	9.78	122.44	110.70
1	2	297	U	N3-C2-O2	-9.78	115.36	122.20
36	1	1207	G	C4-C5-N7	9.78	114.71	110.80
36	1	2833	A	C2-N3-C4	-9.78	105.71	110.60
85	5	2833	A	N1-C6-N6	-9.78	112.73	118.60
1	2	424	C	C6-N1-C2	-9.78	116.39	120.30
36	1	1818	U	N1-C2-N3	-9.78	109.03	114.90
36	1	2422	C	N3-C4-C5	-9.78	117.99	121.90
38	4	61	A	N1-C6-N6	9.78	124.47	118.60
80	6	155	U	O5'-P-OP2	-9.78	96.90	105.70
85	5	1612	A	N1-C2-N3	9.78	134.19	129.30
85	5	2378	C	N3-C4-C5	9.78	125.81	121.90
85	5	2396	G	C2-N3-C4	-9.78	107.01	111.90
1	2	538	A	C4-C5-C6	-9.78	112.11	117.00
80	6	608	U	N3-C2-O2	-9.78	115.36	122.20
80	6	925	G	N1-C6-O6	9.78	125.77	119.90
80	6	1056	U	C6-N1-C2	-9.78	115.13	121.00
85	5	515	C	N3-C2-O2	9.78	128.74	121.90
85	5	2877	G	N3-C4-N9	-9.78	120.13	126.00
36	1	1357	G	C6-C5-N7	-9.77	124.54	130.40
80	6	1014	G	C4-C5-N7	-9.77	106.89	110.80
85	5	131	C	N1-C2-O2	9.77	124.76	118.90
85	5	345	G	N1-C2-N3	9.77	129.76	123.90
85	5	1455	U	C5-C4-O4	-9.77	120.04	125.90
85	5	1947	G	C2-N3-C4	9.77	116.78	111.90
1	2	370	A	C2-N3-C4	9.77	115.48	110.60
36	1	998	A	N7-C8-N9	9.77	118.69	113.80
36	1	1131	G	C5-C6-O6	-9.77	122.74	128.60
36	1	1345	G	C5-N7-C8	-9.77	99.42	104.30
36	1	1473	G	C5-N7-C8	-9.77	99.42	104.30
85	5	727	G	C8-N9-C4	9.77	110.31	106.40
85	5	1437	C	N3-C4-C5	-9.77	117.99	121.90
85	5	2875	U	N3-C2-O2	9.77	129.04	122.20
36	1	2168	A	C4-C5-N7	-9.77	105.82	110.70
36	1	2775	U	C4-C5-C6	9.77	125.56	119.70
36	1	3030	G	N9-C4-C5	9.77	109.31	105.40
85	5	96	G	C6-C5-N7	-9.77	124.54	130.40
85	5	2376	G	C5-C6-O6	-9.77	122.74	128.60
37	7	61	G	N7-C8-N9	-9.77	108.22	113.10
80	6	396	G	C2-N3-C4	-9.77	107.02	111.90
80	6	1139	A	C5-C6-N1	9.77	122.58	117.70
85	5	1350	A	C5-N7-C8	9.77	108.78	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1491	A	C6-N1-C2	-9.77	112.74	118.60
85	5	2788	C	N1-C2-O2	-9.77	113.04	118.90
36	1	1044	U	C5-C4-O4	-9.76	120.04	125.90
80	6	544	A	O5'-P-OP2	-9.76	96.91	105.70
85	5	2994	A	C2-N3-C4	9.76	115.48	110.60
1	2	430	G	N1-C6-O6	-9.76	114.04	119.90
1	2	986	A	C8-N9-C4	-9.76	101.89	105.80
36	1	3375	A	C4-C5-C6	9.76	121.88	117.00
85	5	216	G	O5'-P-OP1	-9.76	96.91	105.70
85	5	3025	C	C2-N3-C4	-9.76	115.02	119.90
37	7	69	C	O5'-P-OP2	-9.76	96.91	105.70
36	1	1213	G	C8-N9-C4	9.76	110.30	106.40
36	1	685	G	N7-C8-N9	-9.76	108.22	113.10
36	1	2377	G	C6-N1-C2	-9.76	119.25	125.10
85	5	344	A	C5-N7-C8	-9.76	99.02	103.90
85	5	933	A	N1-C2-N3	9.76	134.18	129.30
85	5	1355	A	C2-N3-C4	-9.76	105.72	110.60
85	5	2319	U	C4-C5-C6	9.76	125.56	119.70
36	1	498	A	C4-C5-N7	-9.76	105.82	110.70
36	1	585	A	C5-N7-C8	-9.76	99.02	103.90
36	1	2828	G	N3-C4-C5	-9.76	123.72	128.60
80	6	338	C	N3-C4-N4	9.76	124.83	118.00
85	5	347	G	N1-C2-N3	9.76	129.75	123.90
85	5	1358	C	C6-N1-C2	9.76	124.20	120.30
85	5	2122	G	OP1-P-OP2	-9.76	104.97	119.60
85	5	2216	G	N9-C4-C5	9.76	109.30	105.40
85	5	2204	C	C2-N3-C4	-9.76	115.02	119.90
36	1	44	U	C5-C4-O4	9.75	131.75	125.90
36	1	1346	G	C5-C6-O6	9.75	134.45	128.60
36	1	1802	C	N3-C4-C5	-9.75	118.00	121.90
36	1	1860	G	C5-C6-N1	-9.75	106.62	111.50
36	1	2937	G	N7-C8-N9	-9.75	108.22	113.10
85	5	883	A	C2-N3-C4	-9.75	105.72	110.60
85	5	963	G	N1-C2-N2	-9.75	107.42	116.20
85	5	2799	A	C4-C5-C6	9.75	121.88	117.00
85	5	2871	G	N9-C4-C5	9.75	109.30	105.40
36	1	3312	U	N1-C2-O2	-9.75	115.97	122.80
37	3	63	A	C5-C6-N1	9.75	122.58	117.70
85	5	1327	C	N3-C4-C5	9.75	125.80	121.90
85	5	2746	A	C2-N3-C4	-9.75	105.72	110.60
36	1	131	C	N1-C2-O2	9.75	124.75	118.90
36	1	637	C	N3-C4-N4	-9.75	111.17	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1118	G	N1-C2-N3	9.75	129.75	123.90
36	1	523	A	C8-N9-C4	9.75	109.70	105.80
36	1	2519	A	N7-C8-N9	9.75	118.67	113.80
36	1	2986	U	N1-C2-O2	-9.75	115.98	122.80
38	4	152	G	N1-C2-N3	9.75	129.75	123.90
85	5	200	C	N3-C4-C5	9.75	125.80	121.90
85	5	571	U	C5-C6-N1	-9.75	117.83	122.70
85	5	846	A	O5'-P-OP1	9.75	122.40	110.70
85	5	1739	U	N1-C2-O2	-9.75	115.97	122.80
85	5	2125	A	OP1-P-OP2	-9.75	104.97	119.60
85	5	2270	A	C2-N3-C4	-9.75	105.72	110.60
85	5	2726	C	N3-C4-N4	-9.75	111.18	118.00
36	1	2368	A	N1-C6-N6	-9.75	112.75	118.60
38	4	92	A	N1-C6-N6	9.75	124.45	118.60
85	5	2187	G	N1-C2-N2	-9.75	107.43	116.20
85	5	2628	A	C2-N3-C4	-9.75	105.73	110.60
85	5	2790	A	C6-C5-N7	-9.75	125.48	132.30
85	5	3237	U	O5'-P-OP1	-9.75	96.93	105.70
1	2	686	G	C8-N9-C4	-9.75	102.50	106.40
36	1	718	G	C4-C5-N7	9.75	114.70	110.80
36	1	2206	G	N1-C6-O6	9.75	125.75	119.90
36	1	3066	U	N1-C2-N3	9.75	120.75	114.90
85	5	609	G	C5-C6-N1	-9.75	106.63	111.50
85	5	964	G	C8-N9-C4	-9.75	102.50	106.40
85	5	3363	U	C5-C4-O4	-9.75	120.05	125.90
85	5	1552	G	N1-C6-O6	9.74	125.75	119.90
85	5	2432	A	N7-C8-N9	9.74	118.67	113.80
36	1	80	G	C6-N1-C2	-9.74	119.25	125.10
36	1	870	G	N3-C2-N2	-9.74	113.08	119.90
36	1	1622	U	N3-C2-O2	-9.74	115.38	122.20
36	1	3101	G	C5-C6-N1	9.74	116.37	111.50
80	6	986	G	O5'-P-OP2	-9.74	96.93	105.70
85	5	1374	G	N9-C4-C5	-9.74	101.50	105.40
85	5	1628	C	C6-N1-C2	-9.74	116.40	120.30
36	1	3056	U	N1-C2-O2	-9.74	115.98	122.80
36	1	3186	A	C6-N1-C2	-9.74	112.75	118.60
80	6	987	G	OP1-P-OP2	-9.74	104.99	119.60
85	5	784	A	N9-C4-C5	9.74	109.70	105.80
85	5	1868	G	C4-C5-N7	9.74	114.70	110.80
38	4	157	U	C5-C6-N1	-9.74	117.83	122.70
85	5	2291	A	N1-C6-N6	-9.74	112.75	118.60
85	5	1800	A	C2-N3-C4	9.74	115.47	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	577	G	N1-C6-O6	9.73	125.74	119.90
36	1	1299	U	N3-C2-O2	9.73	129.01	122.20
85	5	408	A	C6-N1-C2	-9.73	112.76	118.60
85	5	2132	C	C5-C6-N1	-9.73	116.13	121.00
1	2	804	U	C5-C4-O4	-9.73	120.06	125.90
36	1	3318	G	N1-C6-O6	-9.73	114.06	119.90
37	3	54	U	O5'-P-OP1	-9.73	96.94	105.70
80	6	540	G	N7-C8-N9	-9.73	108.23	113.10
85	5	295	A	C6-C5-N7	-9.73	125.49	132.30
85	5	915	A	C2-N3-C4	9.73	115.47	110.60
85	5	2117	A	N1-C6-N6	-9.73	112.76	118.60
36	1	156	G	C4-C5-N7	9.73	114.69	110.80
36	1	418	A	N1-C6-N6	-9.73	112.76	118.60
1	2	961	A	N9-C4-C5	9.73	109.69	105.80
36	1	439	C	C5-C6-N1	9.73	125.86	121.00
36	1	743	C	N3-C4-N4	-9.73	111.19	118.00
36	1	1346	G	N3-C4-N9	-9.73	120.16	126.00
36	1	2753	G	C2-N3-C4	9.73	116.77	111.90
36	1	2755	C	N3-C4-C5	-9.73	118.01	121.90
80	6	1116	A	C4-C5-N7	9.73	115.56	110.70
85	5	1113	G	C4-C5-C6	9.73	124.64	118.80
36	1	1308	A	N1-C2-N3	9.73	134.16	129.30
36	1	2102	U	C6-N1-C2	9.73	126.84	121.00
36	1	2674	A	N1-C6-N6	-9.73	112.76	118.60
36	1	2124	G	N1-C2-N3	9.73	129.74	123.90
36	1	2993	G	N3-C2-N2	9.73	126.71	119.90
85	5	114	A	C4-C5-N7	9.73	115.56	110.70
85	5	569	A	C2-N3-C4	9.73	115.46	110.60
85	5	1542	G	C4-C5-C6	-9.73	112.96	118.80
85	5	1166	G	C8-N9-C4	9.73	110.29	106.40
85	5	3043	C	C5-C4-N4	-9.73	113.39	120.20
36	1	797	U	C2-N3-C4	-9.72	121.17	127.00
36	1	1933	A	C6-C5-N7	-9.72	125.49	132.30
37	3	77	G	N7-C8-N9	9.72	117.96	113.10
80	6	459	G	C4-C5-N7	9.72	114.69	110.80
85	5	636	C	N3-C4-C5	9.72	125.79	121.90
85	5	1285	G	C5-C6-N1	9.72	116.36	111.50
85	5	2333	C	N3-C4-C5	9.72	125.79	121.90
85	5	3036	G	O5'-P-OP1	9.72	122.37	110.70
36	1	2134	G	C6-N1-C2	-9.72	119.27	125.10
36	1	3079	U	N3-C2-O2	9.72	129.01	122.20
47	M0	146	ASP	CB-CG-OD2	-9.72	109.55	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2759	U	C5-C6-N1	-9.72	117.84	122.70
80	6	921	U	C5-C6-N1	-9.72	117.84	122.70
85	5	2804	A	N1-C2-N3	9.72	134.16	129.30
85	5	2951	G	N7-C8-N9	9.72	117.96	113.10
36	1	1406	A	C2-N3-C4	9.72	115.46	110.60
80	6	347	G	C6-C5-N7	-9.72	124.57	130.40
85	5	1519	G	C6-C5-N7	-9.72	124.57	130.40
36	1	214	G	C2-N3-C4	-9.72	107.04	111.90
85	5	127	G	N3-C2-N2	-9.72	113.10	119.90
1	2	999	C	N3-C4-C5	-9.72	118.01	121.90
85	5	1356	U	C6-N1-C2	9.72	126.83	121.00
85	5	2167	A	N9-C4-C5	9.72	109.69	105.80
36	1	704	U	N3-C4-C5	-9.71	108.77	114.60
36	1	709	A	C8-N9-C4	9.71	109.69	105.80
36	1	2385	G	C5-N7-C8	9.71	109.16	104.30
85	5	2750	U	O4'-C1'-N1	9.71	115.97	108.20
1	2	722	G	C8-N9-C4	9.71	110.28	106.40
1	2	126	A	N1-C6-N6	-9.71	112.77	118.60
36	1	3	U	O5'-P-OP2	-9.71	96.96	105.70
80	6	45	U	N1-C2-N3	9.71	120.73	114.90
85	5	1934	G	O5'-P-OP2	-9.71	96.96	105.70
1	2	1343	A	C5-C6-N1	-9.71	112.85	117.70
36	1	951	A	C2-N3-C4	-9.71	105.75	110.60
36	1	954	U	C4-C5-C6	9.71	125.53	119.70
36	1	2799	A	O5'-P-OP2	-9.71	96.96	105.70
36	1	3209	A	C5-N7-C8	-9.71	99.05	103.90
85	5	1819	U	N3-C4-O4	-9.71	112.60	119.40
80	6	541	A	C8-N9-C4	-9.71	101.92	105.80
85	5	1428	A	C5-C6-N1	9.71	122.55	117.70
85	5	1931	U	C5-C6-N1	-9.71	117.85	122.70
85	5	43	A	C8-N9-C4	9.71	109.68	105.80
36	1	1193	A	C6-N1-C2	9.70	124.42	118.60
36	1	1448	U	N3-C4-C5	-9.70	108.78	114.60
36	1	2193	U	N3-C4-C5	-9.70	108.78	114.60
80	6	1659	A	C4-C5-C6	9.70	121.85	117.00
80	6	1775	U	N1-C2-O2	-9.70	116.01	122.80
85	5	189	G	N9-C4-C5	9.71	109.28	105.40
85	5	2938	G	C8-N9-C4	-9.71	102.52	106.40
1	2	1652	U	N3-C2-O2	9.70	128.99	122.20
36	1	786	A	N1-C6-N6	-9.70	112.78	118.60
36	1	1087	G	N1-C6-O6	9.70	125.72	119.90
80	6	595	G	O5'-P-OP1	-9.70	96.97	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	941	A	N3-C4-C5	-9.70	120.01	126.80
85	5	88	A	C6-N1-C2	9.70	124.42	118.60
85	5	2349	U	OP1-P-O3'	9.70	126.54	105.20
85	5	2678	A	C5-C6-N6	9.70	131.46	123.70
36	1	259	C	C6-N1-C2	9.70	124.18	120.30
85	5	1839	A	N1-C6-N6	-9.70	112.78	118.60
85	5	3098	G	C4-C5-N7	9.70	114.68	110.80
36	1	368	G	N1-C2-N2	-9.70	107.47	116.20
36	1	528	U	C5-C6-N1	9.70	127.55	122.70
36	1	2301	U	C6-N1-C2	-9.70	115.18	121.00
36	1	222	A	C8-N9-C4	-9.70	101.92	105.80
36	1	1549	U	O5'-P-OP2	-9.70	96.97	105.70
85	5	1881	A	C6-N1-C2	-9.70	112.78	118.60
85	5	2849	C	OP1-P-OP2	-9.70	105.06	119.60
37	3	92	A	C2-N3-C4	-9.69	105.75	110.60
80	6	1651	A	N7-C8-N9	9.69	118.65	113.80
85	5	1761	C	C6-N1-C2	9.69	124.18	120.30
85	5	2985	C	N3-C2-O2	-9.69	115.11	121.90
85	5	3079	U	O5'-P-OP1	-9.69	96.97	105.70
36	1	910	G	N7-C8-N9	9.69	117.95	113.10
36	1	1907	C	C6-N1-C2	-9.69	116.42	120.30
37	3	97	A	N1-C2-N3	9.69	134.15	129.30
38	4	16	G	C5-C6-N1	9.69	116.35	111.50
37	7	103	A	C5-C6-N6	-9.69	115.95	123.70
38	4	54	A	N1-C2-N3	9.69	134.15	129.30
85	5	2363	A	N1-C6-N6	9.69	124.42	118.60
36	1	2520	A	C8-N9-C4	9.69	109.68	105.80
36	1	2917	G	C5-C6-N1	9.69	116.34	111.50
85	5	54	C	C2-N3-C4	-9.69	115.06	119.90
85	5	1246	G	N7-C8-N9	9.69	117.94	113.10
36	1	436	A	C5-N7-C8	-9.69	99.06	103.90
36	1	542	G	C5-C6-N1	-9.69	106.66	111.50
36	1	2605	G	N3-C2-N2	-9.69	113.12	119.90
85	5	2838	A	N7-C8-N9	-9.69	108.96	113.80
85	5	3231	U	N3-C4-C5	-9.69	108.79	114.60
1	2	561	G	N3-C2-N2	-9.69	113.12	119.90
36	1	870	G	C4-C5-N7	9.69	114.67	110.80
36	1	1066	G	C8-N9-C4	-9.69	102.53	106.40
36	1	1523	U	C5-C6-N1	9.69	127.54	122.70
38	4	115	C	C6-N1-C2	9.69	124.17	120.30
85	5	815	G	N7-C8-N9	-9.69	108.26	113.10
80	6	413	U	N1-C2-N3	9.69	120.71	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	569	C	C5-C6-N1	-9.69	116.16	121.00
80	6	1348	A	C8-N9-C4	9.69	109.67	105.80
85	5	1273	A	C2-N3-C4	-9.69	105.76	110.60
85	5	3014	U	N3-C2-O2	-9.69	115.42	122.20
80	6	776	G	C8-N9-C4	9.69	110.27	106.40
80	6	1017	U	N1-C2-N3	9.69	120.71	114.90
85	5	141	C	N3-C4-N4	9.69	124.78	118.00
85	5	2334	U	N3-C2-O2	-9.69	115.42	122.20
37	7	103	A	N1-C2-N3	-9.69	124.46	129.30
36	1	412	G	C6-C5-N7	9.68	136.21	130.40
36	1	49	A	C5-C6-N1	-9.68	112.86	117.70
36	1	608	A	N7-C8-N9	9.68	118.64	113.80
36	1	714	G	C5-C6-N1	9.68	116.34	111.50
36	1	1587	A	N1-C6-N6	-9.68	112.79	118.60
85	5	400	G	N7-C8-N9	9.68	117.94	113.10
85	5	201	A	C5-C6-N6	-9.68	115.95	123.70
85	5	332	C	C4-C5-C6	9.68	122.24	117.40
85	5	382	U	N3-C4-O4	9.68	126.18	119.40
85	5	1928	G	C5-N7-C8	-9.68	99.46	104.30
85	5	2602	G	C5-C6-N1	-9.68	106.66	111.50
36	1	2691	A	N7-C8-N9	-9.68	108.96	113.80
80	6	1171	A	N7-C8-N9	9.68	118.64	113.80
85	5	2868	U	N3-C2-O2	-9.68	115.42	122.20
36	1	564	G	C5-N7-C8	9.68	109.14	104.30
36	1	897	U	O5'-P-OP1	-9.68	96.99	105.70
36	1	1191	U	N1-C2-O2	-9.68	116.02	122.80
85	5	93	C	N3-C4-C5	-9.68	118.03	121.90
85	5	386	A	C4-C5-N7	-9.68	105.86	110.70
85	5	862	U	N3-C2-O2	9.68	128.98	122.20
38	8	1	A	C6-N1-C2	-9.68	112.79	118.60
85	5	702	C	C6-N1-C2	-9.68	116.43	120.30
85	5	2231	C	N1-C2-N3	9.68	125.97	119.20
85	5	2750	U	C6-N1-C2	-9.68	115.19	121.00
85	5	2958	A	C5-C6-N1	9.68	122.54	117.70
36	1	307	A	C2-N3-C4	9.68	115.44	110.60
85	5	404	G	C5-C6-O6	-9.68	122.79	128.60
85	5	2981	U	C4-C5-C6	9.68	125.51	119.70
80	6	459	G	C6-C5-N7	-9.68	124.59	130.40
85	5	798	G	N3-C2-N2	-9.68	113.13	119.90
85	5	1902	G	N1-C6-O6	-9.68	114.09	119.90
85	5	2662	G	O5'-P-OP1	-9.68	96.99	105.70
85	5	3101	G	C5-C6-N1	9.68	116.34	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	627	C	C4-C5-C6	9.67	122.24	117.40
1	2	1382	C	C5-C6-N1	9.67	125.84	121.00
36	1	1369	A	C8-N9-C4	9.67	109.67	105.80
36	1	1381	A	C8-N9-C4	9.67	109.67	105.80
36	1	1799	A	N1-C2-N3	9.67	134.14	129.30
85	5	2213	A	C5-C6-N6	9.67	131.44	123.70
36	1	2835	U	C5-C6-N1	-9.67	117.86	122.70
36	1	2866	U	O5'-P-OP1	9.67	122.31	110.70
80	6	278	U	N1-C2-O2	9.67	129.57	122.80
80	6	1772	C	C4-C5-C6	9.67	122.24	117.40
85	5	1536	G	N3-C2-N2	-9.67	113.13	119.90
85	5	2619	G	N7-C8-N9	-9.67	108.26	113.10
1	2	530	C	C5-C6-N1	-9.67	116.17	121.00
1	2	1445	G	C8-N9-C4	9.67	110.27	106.40
36	1	2273	G	C8-N9-C4	9.67	110.27	106.40
85	5	1063	G	N7-C8-N9	9.67	117.94	113.10
36	1	1893	A	N7-C8-N9	9.67	118.63	113.80
36	1	2121	G	C6-C5-N7	9.67	136.20	130.40
85	5	2430	A	OP1-P-OP2	-9.67	105.09	119.60
85	5	1888	U	OP2-P-O3'	9.67	126.47	105.20
37	7	87	G	N3-C2-N2	-9.67	113.13	119.90
36	1	1291	A	C8-N9-C4	-9.67	101.93	105.80
85	5	1188	U	C5-C6-N1	-9.67	117.87	122.70
85	5	1320	C	N3-C4-N4	-9.67	111.23	118.00
85	5	2604	U	OP1-P-OP2	-9.67	105.10	119.60
85	5	3048	A	N1-C2-N3	9.67	134.13	129.30
85	5	3050	U	C5-C4-O4	9.67	131.70	125.90
38	8	39	G	C5-C6-O6	9.67	134.40	128.60
1	2	413	U	N1-C2-N3	9.66	120.70	114.90
1	2	459	G	N1-C6-O6	9.66	125.70	119.90
1	2	517	U	C5-C6-N1	9.66	127.53	122.70
36	1	2806	U	N1-C2-N3	9.66	120.70	114.90
85	5	1723	A	N1-C6-N6	-9.66	112.80	118.60
85	5	2988	C	N1-C2-O2	-9.66	113.10	118.90
85	5	3251	U	N3-C2-O2	-9.66	115.43	122.20
85	5	3010	U	C5-C6-N1	-9.66	117.87	122.70
85	5	3143	C	C6-N1-C2	-9.66	116.44	120.30
38	8	17	A	C2-N3-C4	-9.66	105.77	110.60
36	1	4	U	N1-C2-N3	-9.66	109.10	114.90
36	1	3300	U	C4-C5-C6	9.66	125.50	119.70
38	8	134	G	N9-C4-C5	-9.66	101.53	105.40
38	4	2	A	C5-C6-N1	-9.66	112.87	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2359	C	N3-C4-N4	9.66	124.76	118.00
85	5	2388	U	N3-C4-O4	9.66	126.16	119.40
36	1	160	G	C8-N9-C4	9.66	110.26	106.40
38	4	31	G	N3-C4-C5	9.66	133.43	128.60
85	5	1679	A	O5'-P-OP1	-9.66	97.01	105.70
37	7	29	C	OP1-P-OP2	-9.66	105.11	119.60
1	2	531	C	C6-N1-C2	9.65	124.16	120.30
1	2	964	U	N1-C2-O2	-9.65	116.04	122.80
36	1	38	U	N3-C2-O2	9.65	128.96	122.20
36	1	591	G	N3-C2-N2	-9.65	113.14	119.90
36	1	1045	C	C2-N3-C4	9.65	124.73	119.90
85	5	1307	G	P-O3'-C3'	9.65	131.29	119.70
85	5	3325	G	C8-N9-C4	9.65	110.26	106.40
36	1	329	U	C6-N1-C2	-9.65	115.21	121.00
36	1	1357	G	C5-C6-N1	-9.65	106.67	111.50
36	1	1817	G	N1-C6-O6	9.65	125.69	119.90
36	1	1362	G	C5-C6-N1	9.65	116.33	111.50
36	1	2967	A	O5'-P-OP2	-9.65	97.01	105.70
85	5	367	A	C6-N1-C2	-9.65	112.81	118.60
85	5	1121	U	C5-C6-N1	-9.65	117.87	122.70
85	5	1476	G	N7-C8-N9	-9.65	108.27	113.10
85	5	2418	G	C8-N9-C4	-9.65	102.54	106.40
38	8	54	A	N7-C8-N9	9.65	118.63	113.80
38	8	63	G	C5-C6-N1	-9.65	106.67	111.50
36	1	927	C	O5'-P-OP1	-9.65	97.01	105.70
36	1	1391	C	C2-N3-C4	-9.65	115.07	119.90
36	1	1808	G	C5-C6-O6	9.65	134.39	128.60
85	5	1197	A	C4-C5-C6	9.65	121.83	117.00
36	1	850	U	N3-C2-O2	-9.65	115.45	122.20
36	1	1833	G	O5'-P-OP2	-9.65	97.02	105.70
80	6	1156	C	N3-C4-C5	-9.65	118.04	121.90
85	5	1497	C	N1-C2-O2	-9.65	113.11	118.90
85	5	1900	A	N1-C2-N3	-9.65	124.48	129.30
1	2	51	A	C8-N9-C4	9.65	109.66	105.80
36	1	620	U	N3-C4-O4	-9.65	112.65	119.40
37	3	25	G	O5'-P-OP2	-9.65	97.02	105.70
37	7	60	G	N3-C4-C5	-9.65	123.78	128.60
1	2	809	U	C4-C5-C6	9.64	125.49	119.70
1	2	1257	C	N3-C2-O2	-9.64	115.15	121.90
36	1	512	U	C5-C4-O4	9.64	131.69	125.90
36	1	237	G	C8-N9-C4	9.64	110.26	106.40
85	5	104	G	C4-C5-N7	9.64	114.66	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	313	A	N1-C6-N6	9.64	124.39	118.60
36	1	285	A	C5-C6-N1	9.64	122.52	117.70
85	5	629	U	N1-C2-O2	-9.64	116.05	122.80
36	1	835	G	C8-N9-C4	-9.64	102.54	106.40
36	1	876	A	C2-N3-C4	-9.64	105.78	110.60
36	1	1439	U	C5-C6-N1	9.64	127.52	122.70
36	1	3129	A	N1-C6-N6	9.64	124.38	118.60
38	4	49	G	N7-C8-N9	-9.64	108.28	113.10
80	6	129	U	N1-C2-O2	9.64	129.55	122.80
80	6	141	U	O5'-P-OP1	-9.64	97.02	105.70
85	5	812	G	C4-C5-C6	9.64	124.58	118.80
85	5	961	C	N1-C2-O2	9.64	124.69	118.90
85	5	707	U	C4-C5-C6	9.64	125.48	119.70
85	5	2659	G	C8-N9-C4	9.64	110.25	106.40
37	7	101	G	O5'-P-OP1	9.64	122.27	110.70
36	1	798	G	N1-C2-N3	9.64	129.68	123.90
36	1	2236	G	C5-C6-N1	-9.64	106.68	111.50
85	5	386	A	C8-N9-C4	9.64	109.66	105.80
85	5	2370	G	N1-C6-O6	-9.64	114.12	119.90
1	2	1097	G	C4-C5-N7	9.64	114.65	110.80
36	1	787	G	O5'-P-OP1	9.64	122.26	110.70
36	1	1473	G	C4-C5-N7	9.64	114.65	110.80
1	2	1587	U	N3-C2-O2	9.63	128.94	122.20
36	1	2733	A	C4-C5-N7	-9.63	105.88	110.70
36	1	3208	G	C5-C6-O6	9.63	134.38	128.60
80	6	1678	A	N1-C6-N6	9.63	124.38	118.60
85	5	224	C	N3-C2-O2	-9.63	115.16	121.90
85	5	432	G	N1-C2-N3	9.63	129.68	123.90
85	5	2855	U	N1-C2-O2	-9.63	116.06	122.80
36	1	1898	G	C6-N1-C2	-9.63	119.32	125.10
85	5	3149	G	O5'-P-OP2	-9.63	97.03	105.70
36	1	804	C	O5'-P-OP1	-9.63	97.03	105.70
85	5	2886	U	O5'-P-OP1	9.63	122.26	110.70
36	1	1389	G	N3-C2-N2	9.63	126.64	119.90
36	1	1470	U	N1-C2-N3	9.63	120.68	114.90
36	1	1587	A	C5-C6-N6	9.63	131.41	123.70
36	1	2744	U	N3-C4-O4	9.63	126.14	119.40
85	5	933	A	N1-C6-N6	-9.63	112.82	118.60
85	5	1882	G	C5-N7-C8	-9.63	99.48	104.30
85	5	2116	G	OP1-P-OP2	9.63	134.04	119.60
85	5	2956	A	C3'-C2'-C1'	-9.63	93.80	101.50
1	2	1589	C	O5'-P-OP2	-9.63	97.04	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	570	A	C5-C6-N6	-9.63	116.00	123.70
36	1	1298	C	C2-N3-C4	-9.63	115.09	119.90
85	5	404	G	N1-C2-N2	9.63	124.87	116.20
85	5	2293	C	N1-C2-O2	9.63	124.68	118.90
36	1	2376	G	N7-C8-N9	9.63	117.91	113.10
36	1	2874	G	C6-N1-C2	9.63	130.88	125.10
36	1	3201	C	N1-C2-O2	-9.63	113.12	118.90
36	1	3311	C	N1-C2-N3	-9.63	112.46	119.20
80	6	1781	A	C4-C5-C6	9.63	121.81	117.00
85	5	2201	G	N7-C8-N9	-9.63	108.29	113.10
85	5	2215	A	N1-C6-N6	9.63	124.38	118.60
85	5	2824	G	N1-C2-N3	9.63	129.68	123.90
1	2	157	A	C2-N3-C4	-9.63	105.79	110.60
36	1	936	A	O5'-P-OP1	9.63	122.25	110.70
36	1	2828	G	N1-C2-N2	-9.63	107.54	116.20
36	1	2979	U	N1-C2-N3	9.63	120.67	114.90
85	5	1047	A	C5-C6-N6	-9.63	116.00	123.70
85	5	1120	A	C6-N1-C2	-9.63	112.83	118.60
85	5	1403	C	OP1-P-OP2	-9.63	105.16	119.60
85	5	1441	G	OP1-P-OP2	9.63	134.04	119.60
36	1	2170	U	N1-C2-N3	9.62	120.67	114.90
36	1	2419	A	OP1-P-OP2	9.62	134.04	119.60
85	5	665	A	C8-N9-C4	-9.62	101.95	105.80
1	2	233	C	N3-C2-O2	9.62	128.64	121.90
85	5	3377	G	C4-C5-N7	9.62	114.65	110.80
36	1	344	A	N1-C2-N3	-9.62	124.49	129.30
36	1	2753	G	N1-C6-O6	-9.62	114.13	119.90
36	1	2920	U	C5-C4-O4	-9.62	120.13	125.90
80	6	95	G	C6-C5-N7	9.62	136.17	130.40
80	6	1150	G	C8-N9-C4	9.62	110.25	106.40
85	5	635	G	C4-C5-N7	9.62	114.65	110.80
85	5	1744	G	N1-C6-O6	9.62	125.67	119.90
85	5	2291	A	C6-N1-C2	-9.62	112.83	118.60
85	5	2325	G	N1-C2-N3	9.62	129.67	123.90
85	5	2695	A	C5-C6-N1	9.62	122.51	117.70
85	5	3305	A	O5'-P-OP1	-9.62	97.04	105.70
36	1	644	G	C8-N9-C4	-9.62	102.55	106.40
80	6	58	U	N1-C2-O2	-9.62	116.07	122.80
80	6	911	U	C6-N1-C2	-9.62	115.23	121.00
85	5	1254	C	OP2-P-O3'	9.62	126.36	105.20
85	5	2808	A	N1-C6-N6	-9.62	112.83	118.60
36	1	360	G	N3-C2-N2	9.62	126.63	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
51	M5	98	LEU	CB-CG-CD2	-9.62	94.65	111.00
80	6	557	G	C5-C6-O6	9.62	134.37	128.60
80	6	864	U	N3-C2-O2	-9.62	115.47	122.20
80	6	937	C	N3-C2-O2	-9.62	115.17	121.90
85	5	1871	U	C2-N3-C4	-9.62	121.23	127.00
1	2	1650	A	C2-N3-C4	-9.62	105.79	110.60
36	1	688	G	N1-C2-N3	9.62	129.67	123.90
36	1	1323	G	N1-C2-N3	9.61	129.67	123.90
36	1	1552	G	C8-N9-C4	-9.61	102.55	106.40
36	1	2373	A	N1-C2-N3	9.61	134.11	129.30
80	6	613	G	C2-N3-C4	9.61	116.71	111.90
80	6	919	A	C4-C5-C6	9.62	121.81	117.00
85	5	2147	A	C6-N1-C2	-9.61	112.83	118.60
85	5	3171	U	C6-N1-C2	9.61	126.77	121.00
36	1	1905	G	OP2-P-O3'	9.61	126.35	105.20
36	1	2781	U	N3-C2-O2	9.61	128.93	122.20
85	5	1106	G	C4-C5-N7	9.61	114.64	110.80
85	5	1438	U	N3-C4-O4	9.61	126.13	119.40
85	5	1696	A	OP1-P-OP2	9.61	134.02	119.60
85	5	3041	U	C4-C5-C6	-9.61	113.93	119.70
85	5	196	G	OP1-P-OP2	-9.61	105.19	119.60
36	1	2179	C	N3-C4-C5	-9.61	118.06	121.90
36	1	2626	A	C2-N3-C4	-9.61	105.80	110.60
36	1	3394	U	N3-C4-O4	-9.61	112.67	119.40
85	5	2302	G	O5'-P-OP1	9.61	122.23	110.70
85	5	564	G	C5-C6-N1	9.61	116.30	111.50
85	5	1889	G	C5-C6-N1	9.61	116.30	111.50
85	5	2108	C	N3-C4-C5	-9.61	118.06	121.90
85	5	2952	G	C6-C5-N7	-9.61	124.64	130.40
85	5	2967	A	C6-N1-C2	-9.61	112.83	118.60
85	5	3330	A	C2-N3-C4	9.61	115.41	110.60
85	5	1045	C	OP2-P-O3'	9.61	126.34	105.20
36	1	1117	G	C5-C6-N1	9.61	116.30	111.50
37	3	68	C	O5'-P-OP1	9.61	122.23	110.70
80	6	418	G	C4-C5-N7	9.61	114.64	110.80
85	5	2304	C	C6-N1-C2	-9.61	116.46	120.30
85	5	2844	C	C2-N3-C4	9.61	124.70	119.90
85	5	195	U	N1-C2-N3	9.61	120.66	114.90
85	5	1559	A	N1-C6-N6	9.61	124.36	118.60
37	7	48	U	C6-N1-C2	-9.61	115.24	121.00
1	2	223	U	C5-C6-N1	9.60	127.50	122.70
36	1	612	U	O5'-P-OP2	-9.60	97.06	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	791	A	N1-C6-N6	-9.60	112.84	118.60
36	1	2132	C	O5'-P-OP1	9.60	122.22	110.70
36	1	2276	G	N1-C6-O6	-9.60	114.14	119.90
36	1	3102	G	C8-N9-C4	-9.60	102.56	106.40
85	5	1202	A	C2-N3-C4	-9.60	105.80	110.60
85	5	2869	U	C5-C4-O4	9.60	131.66	125.90
85	5	3040	A	N1-C2-N3	9.60	134.10	129.30
36	1	937	G	N1-C6-O6	-9.60	114.14	119.90
36	1	2586	G	C2-N3-C4	9.60	116.70	111.90
36	1	2924	U	C6-N1-C2	9.60	126.76	121.00
36	1	3274	A	N9-C4-C5	9.60	109.64	105.80
38	4	83	C	N3-C4-C5	-9.60	118.06	121.90
80	6	1214	U	C4-C5-C6	9.60	125.46	119.70
85	5	1914	G	N1-C2-N3	9.60	129.66	123.90
80	6	587	C	N3-C4-C5	9.60	125.74	121.90
85	5	1824	U	C5-C4-O4	9.60	131.66	125.90
85	5	2132	C	O5'-P-OP2	-9.60	97.06	105.70
1	2	1227	A	C8-N9-C4	-9.60	101.96	105.80
36	1	283	G	C2-N3-C4	-9.60	107.10	111.90
36	1	591	G	N9-C4-C5	9.60	109.24	105.40
36	1	1413	G	C8-N9-C4	-9.60	102.56	106.40
80	6	1071	U	N3-C2-O2	9.60	128.92	122.20
85	5	410	U	C5-C4-O4	9.60	131.66	125.90
85	5	1619	A	N1-C2-N3	9.60	134.10	129.30
85	5	3295	A	C8-N9-C4	9.60	109.64	105.80
37	7	31	U	N1-C2-O2	9.60	129.52	122.80
1	2	47	A	N7-C8-N9	9.60	118.60	113.80
1	2	370	A	C5-C6-N1	9.60	122.50	117.70
36	1	339	C	C5-C4-N4	9.60	126.92	120.20
36	1	654	C	N1-C2-O2	-9.60	113.14	118.90
36	1	1452	A	N9-C4-C5	-9.60	101.96	105.80
36	1	1666	G	N7-C8-N9	9.60	117.90	113.10
36	1	2726	C	C5-C4-N4	9.60	126.92	120.20
85	5	2296	A	C4-C5-C6	-9.60	112.20	117.00
85	5	2967	A	C5-C6-N1	9.60	122.50	117.70
36	1	1890	U	N3-C2-O2	9.60	128.92	122.20
85	5	409	A	N1-C2-N3	-9.60	124.50	129.30
85	5	963	G	OP1-P-O3'	9.60	126.31	105.20
85	5	2845	A	OP1-P-OP2	9.60	133.99	119.60
85	5	3018	C	O5'-P-OP1	9.60	122.21	110.70
36	1	49	A	C4-C5-N7	-9.59	105.90	110.70
36	1	778	U	O5'-P-OP1	-9.59	97.06	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	857	G	C5-N7-C8	-9.59	99.50	104.30
36	1	2186	U	N3-C4-O4	-9.59	112.68	119.40
36	1	142	C	N3-C2-O2	-9.59	115.19	121.90
36	1	1114	U	O5'-P-OP2	-9.59	97.07	105.70
36	1	1676	A	O5'-P-OP2	-9.59	97.07	105.70
36	1	1928	G	C5-C6-N1	9.59	116.30	111.50
36	1	3029	A	OP1-P-OP2	-9.59	105.21	119.60
38	4	111	A	C8-N9-C4	-9.59	101.96	105.80
80	6	1468	U	N3-C2-O2	9.59	128.91	122.20
85	5	645	A	C8-N9-C4	-9.59	101.96	105.80
85	5	2700	G	C4-C5-N7	9.59	114.64	110.80
85	5	3054	U	N1-C2-N3	9.59	120.66	114.90
85	5	3300	U	C5-C6-N1	-9.59	117.90	122.70
36	1	2943	G	N7-C8-N9	9.59	117.89	113.10
36	1	2944	U	C5-C6-N1	9.59	127.50	122.70
85	5	639	G	N1-C6-O6	9.59	125.65	119.90
85	5	1318	A	N1-C2-N3	9.59	134.09	129.30
85	5	1506	A	C4-C5-N7	9.59	115.50	110.70
1	2	220	A	N1-C6-N6	9.59	124.35	118.60
36	1	1603	A	N3-C4-C5	-9.59	120.09	126.80
36	1	1846	C	N1-C2-O2	-9.59	113.15	118.90
80	6	58	U	C5-C4-O4	9.59	131.65	125.90
85	5	805	G	C4-C5-N7	-9.59	106.97	110.80
36	1	266	A	C6-N1-C2	-9.59	112.85	118.60
36	1	2412	G	O5'-P-OP1	9.59	122.20	110.70
36	1	3230	G	C5-C6-O6	-9.59	122.85	128.60
38	4	152	G	O5'-P-OP2	-9.59	97.07	105.70
85	5	1435	A	OP1-P-OP2	-9.59	105.22	119.60
85	5	341	G	C5-C6-O6	9.58	134.35	128.60
85	5	341	G	C6-N1-C2	9.58	130.85	125.10
85	5	2167	A	N3-C4-C5	-9.58	120.09	126.80
85	5	598	A	C5-C6-N1	9.58	122.49	117.70
85	5	1521	G	O5'-P-OP1	-9.58	97.08	105.70
85	5	2200	U	N3-C4-O4	-9.58	112.69	119.40
38	8	11	C	C6-N1-C2	-9.58	116.47	120.30
1	2	377	G	C4-C5-N7	-9.58	106.97	110.80
36	1	2555	G	C5-C6-N1	-9.58	106.71	111.50
85	5	614	C	N3-C4-C5	9.58	125.73	121.90
85	5	1291	A	N9-C4-C5	-9.58	101.97	105.80
85	5	2192	C	O5'-P-OP2	-9.58	97.08	105.70
1	2	936	G	C2-N3-C4	-9.58	107.11	111.90
36	1	241	G	C8-N9-C4	9.58	110.23	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1900	A	C6-N1-C2	-9.58	112.85	118.60
36	1	1949	G	C5-C6-N1	9.58	116.29	111.50
85	5	1081	U	N3-C4-C5	-9.58	108.85	114.60
85	5	1458	U	N3-C4-C5	-9.58	108.85	114.60
85	5	2718	U	C4-C5-C6	9.58	125.45	119.70
85	5	2850	G	N3-C2-N2	-9.58	113.19	119.90
85	5	2884	C	N3-C4-N4	9.58	124.71	118.00
38	8	27	U	C5-C6-N1	9.58	127.49	122.70
36	1	260	C	N1-C2-N3	-9.58	112.50	119.20
37	3	74	C	N1-C2-N3	-9.58	112.50	119.20
80	6	1284	C	C2-N3-C4	-9.58	115.11	119.90
36	1	1521	G	N7-C8-N9	9.58	117.89	113.10
36	1	1703	U	N3-C4-C5	-9.58	108.86	114.60
36	1	2729	U	C6-N1-C2	9.58	126.75	121.00
37	3	86	U	C4-C5-C6	-9.58	113.95	119.70
38	4	31	G	N9-C4-C5	-9.58	101.57	105.40
85	5	2246	G	C5-C6-O6	9.58	134.35	128.60
85	5	3179	U	N3-C2-O2	-9.58	115.50	122.20
36	1	1406	A	C5-C6-N6	-9.57	116.04	123.70
85	5	1526	U	N3-C2-O2	-9.57	115.50	122.20
1	2	419	G	N3-C2-N2	9.57	126.60	119.90
1	2	549	G	O5'-P-OP1	-9.57	97.08	105.70
85	5	3376	A	C5-C6-N6	9.57	131.36	123.70
36	1	1377	G	C8-N9-C4	-9.57	102.57	106.40
36	1	2283	G	N7-C8-N9	9.57	117.89	113.10
36	1	2798	C	C5-C6-N1	9.57	125.79	121.00
85	5	2275	A	C5-N7-C8	-9.57	99.11	103.90
85	5	2904	U	O5'-P-OP1	9.57	122.19	110.70
85	5	1179	A	OP1-P-OP2	-9.57	105.24	119.60
85	5	2793	G	C2-N3-C4	-9.57	107.11	111.90
1	2	408	C	O5'-P-OP2	-9.57	97.09	105.70
36	1	595	G	N1-C2-N2	9.57	124.81	116.20
36	1	1858	A	C4-C5-C6	9.57	121.78	117.00
85	5	1891	A	N1-C2-N3	9.57	134.09	129.30
85	5	2163	C	N1-C2-N3	9.57	125.90	119.20
85	5	2196	C	C6-N1-C2	-9.57	116.47	120.30
85	5	2615	G	N3-C2-N2	-9.57	113.20	119.90
85	5	3136	G	C2-N3-C4	-9.57	107.11	111.90
37	7	102	A	N1-C6-N6	9.57	124.34	118.60
1	2	1416	G	O5'-P-OP1	-9.57	97.09	105.70
36	1	2651	G	OP1-P-OP2	9.57	133.95	119.60
36	1	346	C	N1-C2-N3	9.57	125.90	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	336	G	OP1-P-OP2	-9.57	105.25	119.60
85	5	1494	U	C4-C5-C6	9.57	125.44	119.70
85	5	2624	G	N1-C6-O6	9.57	125.64	119.90
36	1	547	G	N1-C2-N2	9.56	124.81	116.20
85	5	1923	C	C2-N3-C4	9.56	124.68	119.90
36	1	635	G	C5-C6-N1	9.56	116.28	111.50
85	5	2864	A	C5-C6-N6	-9.56	116.05	123.70
85	5	2877	G	N3-C2-N2	-9.56	113.20	119.90
85	5	3377	G	C5-C6-N1	9.56	116.28	111.50
73	o7	65	ARG	NE-CZ-NH1	9.56	125.08	120.30
36	1	741	U	N1-C2-N3	9.56	120.64	114.90
38	4	68	G	N1-C2-N3	9.56	129.64	123.90
36	1	336	A	C2-N3-C4	9.56	115.38	110.60
36	1	961	C	C4-C5-C6	9.56	122.18	117.40
36	1	1146	C	C4-C5-C6	-9.56	112.62	117.40
36	1	1945	A	C8-N9-C4	-9.56	101.98	105.80
37	3	31	U	C5-C6-N1	9.56	127.48	122.70
85	5	1283	C	C6-N1-C2	-9.56	116.47	120.30
36	1	2409	G	O5'-P-OP1	-9.56	97.10	105.70
36	1	2972	G	N7-C8-N9	9.56	117.88	113.10
85	5	830	A	C2-N3-C4	-9.56	105.82	110.60
85	5	1919	G	C4-C5-C6	9.56	124.54	118.80
85	5	2117	A	N9-C4-C5	9.56	109.62	105.80
85	5	2292	U	N3-C4-O4	9.56	126.09	119.40
85	5	2363	A	C4-C5-N7	9.56	115.48	110.70
85	5	3143	C	N3-C4-N4	9.56	124.69	118.00
85	5	3173	G	C6-N1-C2	-9.56	119.36	125.10
85	5	2177	G	N1-C2-N3	9.56	129.63	123.90
36	1	324	A	C2-N3-C4	-9.56	105.82	110.60
36	1	693	A	C5-C6-N1	-9.56	112.92	117.70
36	1	2218	G	OP1-P-OP2	-9.56	105.26	119.60
36	1	2793	G	N3-C2-N2	-9.56	113.21	119.90
36	1	2842	U	N3-C2-O2	-9.56	115.51	122.20
85	5	1692	U	C5-C6-N1	9.56	127.48	122.70
85	5	788	C	C6-N1-C2	-9.56	116.48	120.30
85	5	1914	G	C6-N1-C2	-9.56	119.37	125.10
1	2	186	C	N1-C2-O2	9.55	124.63	118.90
80	6	1110	G	OP2-P-O3'	9.56	126.22	105.20
85	5	893	C	N1-C2-O2	-9.56	113.17	118.90
85	5	909	G	N1-C2-N3	9.56	129.63	123.90
36	1	52	A	C2-N3-C4	9.55	115.38	110.60
36	1	378	A	N7-C8-N9	-9.55	109.02	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	403	C	N1-C2-O2	-9.55	113.17	118.90
36	1	427	C	C4-C5-C6	9.55	122.18	117.40
36	1	1727	G	C4-C5-N7	9.55	114.62	110.80
36	1	1886	A	N1-C2-N3	9.55	134.08	129.30
38	8	30	C	OP1-P-OP2	-9.55	105.27	119.60
85	5	672	A	C5-N7-C8	-9.55	99.12	103.90
85	5	3304	U	N1-C2-O2	9.55	129.49	122.80
36	1	41	G	C6-C5-N7	-9.55	124.67	130.40
36	1	815	G	C8-N9-C4	-9.55	102.58	106.40
36	1	1529	A	N7-C8-N9	9.55	118.58	113.80
36	1	2549	G	C4-C5-N7	-9.55	106.98	110.80
36	1	3057	U	N1-C2-N3	9.55	120.63	114.90
80	6	206	A	N9-C4-C5	9.55	109.62	105.80
80	6	1752	U	N3-C4-C5	-9.55	108.87	114.60
85	5	1206	G	O5'-P-OP1	9.55	122.16	110.70
85	5	2769	A	N1-C2-N3	9.55	134.08	129.30
80	6	989	U	N3-C4-C5	-9.55	108.87	114.60
80	6	1116	A	C5-C6-N6	-9.55	116.06	123.70
85	5	1314	C	C2-N3-C4	-9.55	115.12	119.90
85	5	1377	G	C4-C5-N7	9.55	114.62	110.80
85	5	2828	G	C5-N7-C8	-9.55	99.53	104.30
85	5	2958	A	C5-C6-N6	-9.55	116.06	123.70
1	2	1294	U	N3-C2-O2	-9.55	115.52	122.20
1	2	1640	U	C6-N1-C2	9.55	126.73	121.00
85	5	2626	A	C6-N1-C2	-9.55	112.87	118.60
36	1	1437	C	N3-C4-C5	-9.55	118.08	121.90
36	1	3212	C	N3-C4-C5	9.55	125.72	121.90
85	5	2744	U	C5-C4-O4	-9.55	120.17	125.90
38	8	20	U	N1-C2-N3	9.55	120.63	114.90
1	2	402	C	N3-C4-C5	-9.55	118.08	121.90
36	1	1157	G	C6-N1-C2	-9.55	119.37	125.10
36	1	363	G	N3-C2-N2	9.54	126.58	119.90
36	1	1403	C	N3-C4-C5	9.54	125.72	121.90
36	1	2324	A	N7-C8-N9	9.54	118.57	113.80
36	1	2797	C	C4-C5-C6	9.54	122.17	117.40
36	1	2827	U	O5'-P-OP2	-9.54	97.11	105.70
36	1	2971	A	N7-C8-N9	9.55	118.57	113.80
85	5	91	G	C6-N1-C2	-9.55	119.37	125.10
85	5	1753	G	C6-C5-N7	-9.54	124.67	130.40
85	5	2875	U	N1-C2-O2	-9.54	116.12	122.80
1	2	587	C	C6-N1-C2	-9.54	116.48	120.30
1	2	921	G	C4-C5-N7	9.54	114.62	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	20	U	N3-C2-O2	9.54	128.88	122.20
36	1	2719	U	O5'-P-OP2	-9.54	97.11	105.70
36	1	3301	U	C5-C6-N1	-9.54	117.93	122.70
85	5	78	U	C4-C5-C6	9.54	125.42	119.70
85	5	1047	A	N1-C6-N6	9.54	124.33	118.60
85	5	2112	U	N1-C2-O2	-9.54	116.12	122.80
85	5	2167	A	C2-N3-C4	9.54	115.37	110.60
85	5	2378	C	C5-C4-N4	-9.54	113.52	120.20
85	5	3114	A	C2-N3-C4	-9.54	105.83	110.60
1	2	1583	A	C5-C6-N1	-9.54	112.93	117.70
36	1	1545	A	C8-N9-C4	-9.54	101.98	105.80
85	5	180	C	N1-C2-O2	9.54	124.62	118.90
1	2	1646	G	O5'-P-OP2	-9.54	97.12	105.70
36	1	7	C	C5-C4-N4	9.54	126.88	120.20
36	1	752	C	N1-C2-O2	-9.54	113.18	118.90
36	1	982	C	C6-N1-C2	9.54	124.12	120.30
85	5	989	A	O5'-P-OP1	9.54	122.15	110.70
36	1	88	A	N1-C6-N6	-9.54	112.88	118.60
36	1	212	G	N3-C4-C5	-9.54	123.83	128.60
36	1	981	U	C6-N1-C2	-9.54	115.28	121.00
36	1	2610	G	C5-N7-C8	-9.54	99.53	104.30
80	6	1616	G	C8-N9-C4	-9.54	102.58	106.40
85	5	674	G	N3-C2-N2	-9.54	113.22	119.90
85	5	882	A	N1-C2-N3	9.54	134.07	129.30
85	5	1483	G	N9-C4-C5	9.54	109.22	105.40
85	5	2801	A	N3-C4-C5	-9.54	120.12	126.80
38	8	48	A	O5'-P-OP1	-9.54	97.12	105.70
36	1	1755	C	N1-C2-O2	-9.54	113.18	118.90
36	1	1903	U	C6-N1-C2	-9.53	115.28	121.00
36	1	2886	U	C6-N1-C2	-9.54	115.28	121.00
38	4	113	U	O5'-P-OP1	9.54	122.14	110.70
80	6	784	C	N1-C2-O2	-9.53	113.18	118.90
85	5	923	C	C6-N1-C2	-9.53	116.49	120.30
85	5	2844	C	N3-C2-O2	9.53	128.57	121.90
85	5	3272	C	O5'-P-OP2	-9.54	97.12	105.70
1	2	1749	A	C8-N9-C4	9.53	109.61	105.80
36	1	43	A	C2-N3-C4	-9.53	105.83	110.60
36	1	78	U	O5'-P-OP2	9.53	122.14	110.70
36	1	371	G	C5-C6-O6	-9.53	122.88	128.60
36	1	2412	G	C2-N3-C4	9.53	116.67	111.90
80	6	1764	C	OP1-P-O3'	9.53	126.17	105.20
85	5	97	U	N3-C2-O2	9.53	128.87	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1172	G	N1-C2-N3	9.53	129.62	123.90
85	5	1880	U	OP1-P-OP2	9.53	133.90	119.60
85	5	1413	G	C2-N3-C4	-9.53	107.13	111.90
37	7	102	A	C8-N9-C4	9.53	109.61	105.80
38	8	96	A	C6-N1-C2	-9.53	112.88	118.60
1	2	794	A	C8-N9-C4	-9.53	101.99	105.80
36	1	389	A	N1-C2-N3	9.53	134.06	129.30
36	1	1412	G	N1-C6-O6	9.53	125.62	119.90
36	1	1920	U	N3-C2-O2	-9.53	115.53	122.20
36	1	2912	G	O5'-P-OP2	-9.53	97.12	105.70
36	1	3015	G	N1-C6-O6	9.53	125.62	119.90
85	5	74	G	C8-N9-C4	-9.53	102.59	106.40
85	5	878	G	C5-N7-C8	-9.53	99.54	104.30
85	5	1488	G	C4-C5-N7	9.53	114.61	110.80
85	5	2337	C	N1-C2-O2	-9.53	113.18	118.90
85	5	2364	G	C5-C6-N1	9.53	116.26	111.50
85	5	2892	A	OP1-P-OP2	9.53	133.90	119.60
36	1	557	A	N1-C6-N6	-9.53	112.88	118.60
1	2	1469	G	C6-C5-N7	-9.53	124.69	130.40
36	1	345	G	C4-C5-N7	-9.53	106.99	110.80
36	1	695	C	C5-C6-N1	-9.53	116.24	121.00
36	1	2198	A	C8-N9-C4	-9.53	101.99	105.80
36	1	2991	A	C4-C5-C6	9.53	121.76	117.00
80	6	985	G	C4-C5-N7	9.53	114.61	110.80
85	5	80	G	N1-C6-O6	9.53	125.61	119.90
85	5	767	U	C5-C6-N1	-9.53	117.94	122.70
85	5	1128	U	N3-C4-C5	9.53	120.31	114.60
85	5	1142	G	C4-C5-C6	9.53	124.52	118.80
85	5	1377	G	C6-C5-N7	-9.53	124.69	130.40
85	5	2105	G	C4-C5-N7	9.53	114.61	110.80
1	2	584	C	N1-C2-O2	-9.52	113.19	118.90
1	2	827	A	N1-C6-N6	9.52	124.31	118.60
36	1	510	G	C5-C6-N1	-9.52	106.74	111.50
36	1	1169	A	C6-N1-C2	-9.52	112.89	118.60
36	1	1329	U	N3-C2-O2	-9.52	115.53	122.20
36	1	3194	C	N3-C4-C5	-9.52	118.09	121.90
80	6	561	G	C8-N9-C4	-9.52	102.59	106.40
85	5	1185	C	C4-C5-C6	9.52	122.16	117.40
85	5	1557	A	C8-N9-C4	-9.52	101.99	105.80
36	1	2424	A	N9-C4-C5	-9.52	101.99	105.80
1	2	859	G	C4-C5-N7	9.52	114.61	110.80
37	3	41	G	C6-C5-N7	-9.52	124.69	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	911	C	N1-C2-O2	-9.52	113.19	118.90
85	5	121	A	N1-C2-N3	-9.52	124.54	129.30
85	5	723	U	C2-N3-C4	-9.52	121.29	127.00
85	5	1313	G	N1-C6-O6	9.52	125.61	119.90
85	5	2795	U	N3-C2-O2	9.52	128.86	122.20
85	5	2611	U	C5-C6-N1	-9.52	117.94	122.70
85	5	3024	A	C2-N3-C4	-9.52	105.84	110.60
85	5	237	G	N1-C6-O6	9.52	125.61	119.90
36	1	612	U	N1-C2-N3	9.52	120.61	114.90
36	1	657	A	C8-N9-C4	-9.52	101.99	105.80
85	5	911	C	O5'-P-OP1	-9.52	97.14	105.70
85	5	1067	U	C5-C4-O4	9.52	131.61	125.90
85	5	1134	G	C2-N3-C4	-9.52	107.14	111.90
85	5	1592	G	N7-C8-N9	9.52	117.86	113.10
36	1	96	G	C6-C5-N7	-9.51	124.69	130.40
36	1	161	G	C8-N9-C4	9.51	110.20	106.40
36	1	1139	G	C2-N3-C4	-9.51	107.14	111.90
36	1	1828	A	O5'-P-OP1	-9.51	97.14	105.70
85	5	1320	C	C5-C4-N4	9.51	126.86	120.20
85	5	2907	G	C5-C6-N1	-9.51	106.74	111.50
85	5	1944	U	N3-C2-O2	-9.51	115.54	122.20
85	5	2199	G	C5-N7-C8	-9.51	99.54	104.30
1	2	1061	C	N3-C2-O2	-9.51	115.24	121.90
36	1	80	G	N1-C2-N2	-9.51	107.64	116.20
80	6	1771	U	N3-C4-C5	-9.51	108.89	114.60
85	5	27	C	C6-N1-C2	-9.51	116.50	120.30
85	5	2743	A	N1-C2-N3	9.51	134.06	129.30
85	5	731	U	N1-C2-N3	9.51	120.61	114.90
36	1	206	G	C8-N9-C4	-9.51	102.60	106.40
36	1	1178	G	N3-C4-C5	-9.51	123.85	128.60
37	3	49	G	C5-C6-N1	9.51	116.25	111.50
80	6	1455	G	N7-C8-N9	9.51	117.85	113.10
85	5	16	A	N7-C8-N9	-9.51	109.05	113.80
85	5	101	G	C6-C5-N7	-9.51	124.70	130.40
85	5	409	A	C8-N9-C4	-9.51	102.00	105.80
85	5	730	C	C4-C5-C6	9.51	122.15	117.40
85	5	1908	A	C5-C6-N1	9.51	122.45	117.70
85	5	2639	G	C8-N9-C4	-9.51	102.60	106.40
36	1	1763	U	C6-N1-C2	9.50	126.70	121.00
36	1	1767	C	C5-C6-N1	-9.50	116.25	121.00
36	1	2287	C	N1-C2-O2	9.50	124.60	118.90
36	1	1309	U	OP1-P-OP2	9.50	133.85	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1398	U	N1-C2-N3	9.50	120.60	114.90
36	1	1606	U	N1-C2-O2	-9.50	116.15	122.80
36	1	1783	U	O5'-P-OP1	-9.50	97.15	105.70
36	1	2613	U	C6-N1-C2	-9.50	115.30	121.00
36	1	3271	G	C5-C6-O6	9.50	134.30	128.60
38	4	110	C	C6-N1-C2	9.50	124.10	120.30
80	6	1111	G	O5'-P-OP1	-9.50	97.15	105.70
85	5	658	G	N3-C4-N9	-9.50	120.30	126.00
85	5	801	A	O4'-C1'-N9	-9.50	100.60	108.20
36	1	671	U	N3-C2-O2	9.50	128.85	122.20
85	5	2944	U	N1-C2-O2	9.50	129.45	122.80
1	2	518	A	C5-C6-N1	-9.50	112.95	117.70
1	2	1583	A	N1-C6-N6	9.50	124.30	118.60
36	1	999	G	N3-C4-C5	-9.50	123.85	128.60
36	1	1655	G	C5-C6-N1	9.50	116.25	111.50
36	1	1907	C	N3-C2-O2	-9.50	115.25	121.90
36	1	612	U	C4-C5-C6	9.50	125.40	119.70
36	1	1380	G	N3-C2-N2	-9.50	113.25	119.90
36	1	2622	C	N1-C2-N3	9.50	125.85	119.20
36	1	2921	U	N3-C2-O2	-9.50	115.55	122.20
38	4	151	C	N1-C2-O2	-9.50	113.20	118.90
80	6	94	U	C5-C6-N1	-9.50	117.95	122.70
85	5	247	C	C5-C6-N1	9.50	125.75	121.00
85	5	1076	C	C6-N1-C2	9.50	124.10	120.30
85	5	1381	A	C8-N9-C4	9.50	109.60	105.80
80	6	965	U	N3-C4-O4	-9.50	112.75	119.40
80	6	984	G	N9-C4-C5	9.50	109.20	105.40
85	5	109	A	N1-C6-N6	-9.50	112.90	118.60
85	5	2333	C	C4-C5-C6	-9.50	112.65	117.40
85	5	2869	U	N3-C2-O2	-9.50	115.55	122.20
85	5	3041	U	C5-C4-O4	-9.50	120.20	125.90
38	8	155	A	N1-C6-N6	-9.50	112.90	118.60
36	1	379	C	N3-C2-O2	9.49	128.55	121.90
36	1	1886	A	N1-C6-N6	-9.49	112.90	118.60
85	5	2416	U	OP1-P-O3'	9.49	126.09	105.20
1	2	245	U	C5-C4-O4	9.49	131.59	125.90
36	1	672	A	C5-N7-C8	-9.49	99.15	103.90
36	1	694	C	C5-C6-N1	9.49	125.75	121.00
36	1	3125	U	O5'-P-OP2	-9.49	97.16	105.70
80	6	154	G	C5-C6-N1	9.49	116.25	111.50
85	5	216	G	C5-C6-O6	-9.49	122.90	128.60
85	5	1688	U	N1-C2-O2	9.49	129.45	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2381	G	C4-C5-N7	9.49	114.60	110.80
85	5	3137	C	O5'-P-OP2	-9.49	97.16	105.70
37	7	88	G	N3-C2-N2	-9.49	113.25	119.90
80	6	1735	U	N1-C2-N3	9.49	120.59	114.90
36	1	1481	A	C8-N9-C4	-9.49	102.00	105.80
85	5	2409	G	C6-N1-C2	-9.49	119.41	125.10
85	5	2684	C	O5'-P-OP2	-9.49	97.16	105.70
85	5	2762	A	N7-C8-N9	9.49	118.55	113.80
85	5	3125	U	N1-C2-O2	-9.49	116.16	122.80
36	1	278	U	N3-C4-C5	-9.49	108.91	114.60
36	1	1441	G	N1-C2-N3	9.49	129.59	123.90
36	1	2556	C	N3-C2-O2	-9.49	115.26	121.90
36	1	2748	A	C2-N3-C4	-9.49	105.86	110.60
36	1	3322	A	C8-N9-C4	9.49	109.59	105.80
80	6	611	U	N3-C2-O2	-9.49	115.56	122.20
85	5	681	U	N3-C4-O4	9.49	126.04	119.40
85	5	1376	C	C5-C6-N1	9.49	125.74	121.00
85	5	1929	G	C2-N3-C4	-9.49	107.16	111.90
85	5	2383	C	O5'-P-OP1	9.49	122.09	110.70
85	5	3161	C	N3-C4-C5	-9.49	118.11	121.90
1	2	1417	U	N3-C4-O4	9.48	126.04	119.40
36	1	809	G	N1-C6-O6	9.48	125.59	119.90
36	1	1316	C	N3-C4-C5	-9.48	118.11	121.90
36	1	1366	A	C4-C5-N7	9.48	115.44	110.70
36	1	2882	U	C5-C4-O4	9.48	131.59	125.90
80	6	3	U	C5-C4-O4	9.48	131.59	125.90
85	5	919	U	N1-C2-N3	9.48	120.59	114.90
36	1	1563	C	N3-C4-N4	-9.48	111.36	118.00
36	1	2412	G	O5'-P-OP2	-9.48	97.17	105.70
36	1	3148	U	C6-N1-C2	-9.48	115.31	121.00
36	1	3331	U	N3-C4-O4	9.48	126.04	119.40
85	5	2796	G	C6-N1-C2	-9.48	119.41	125.10
85	5	3255	U	C6-N1-C2	9.48	126.69	121.00
36	1	53	G	N3-C2-N2	-9.48	113.26	119.90
85	5	518	G	O5'-P-OP2	-9.48	97.17	105.70
36	1	215	G	O5'-P-OP2	9.48	122.08	110.70
36	1	1131	G	N3-C2-N2	-9.48	113.26	119.90
36	1	3324	C	N1-C2-O2	-9.48	113.21	118.90
36	1	1322	U	N1-C2-N3	9.48	120.59	114.90
85	5	420	G	OP1-P-O3'	9.48	126.06	105.20
85	5	2363	A	N7-C8-N9	9.48	118.54	113.80
85	5	2381	G	C2-N3-C4	-9.48	107.16	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	7	79	A	C4-C5-N7	9.48	115.44	110.70
36	1	2934	A	C4-C5-C6	9.48	121.74	117.00
80	6	1323	C	N3-C2-O2	-9.48	115.27	121.90
1	2	1185	A	C5-C6-N1	9.48	122.44	117.70
1	2	1481	G	N7-C8-N9	-9.48	108.36	113.10
36	1	1175	C	N3-C4-N4	9.48	124.64	118.00
36	1	1369	A	C2-N3-C4	-9.48	105.86	110.60
36	1	1890	U	C6-N1-C2	9.48	126.69	121.00
36	1	2950	G	C8-N9-C4	-9.48	102.61	106.40
85	5	1389	G	C8-N9-C1'	-9.48	114.68	127.00
85	5	1820	U	C5-C6-N1	9.48	127.44	122.70
85	5	1949	G	C8-N9-C4	-9.48	102.61	106.40
36	1	1536	G	C6-N1-C2	-9.47	119.42	125.10
36	1	2987	A	C8-N9-C4	9.47	109.59	105.80
36	1	2992	U	N1-C2-O2	-9.47	116.17	122.80
80	6	160	C	N1-C2-O2	9.47	124.58	118.90
80	6	364	G	C4-C5-C6	9.47	124.48	118.80
85	5	801	A	C6-N1-C2	-9.47	112.92	118.60
85	5	1383	G	N1-C2-N3	9.47	129.59	123.90
85	5	1677	G	C5-C6-O6	9.47	134.28	128.60
85	5	2796	G	N3-C4-C5	-9.47	123.86	128.60
85	5	45	A	C4-C5-N7	9.47	115.44	110.70
85	5	726	G	C8-N9-C4	-9.47	102.61	106.40
85	5	3101	G	N1-C6-O6	-9.47	114.22	119.90
85	5	3234	A	N7-C8-N9	-9.47	109.06	113.80
1	2	613	G	C5-C6-O6	-9.47	122.92	128.60
36	1	2796	G	C5-C6-N1	9.47	116.24	111.50
80	6	1284	C	C4-C5-C6	9.47	122.14	117.40
36	1	636	C	N3-C4-N4	9.47	124.63	118.00
36	1	1507	G	C6-N1-C2	-9.47	119.42	125.10
38	4	30	C	N3-C2-O2	9.47	128.53	121.90
85	5	3095	U	C2-N3-C4	-9.47	121.32	127.00
85	5	3151	U	N3-C2-O2	9.47	128.83	122.20
38	8	98	U	C2-N3-C4	9.47	132.68	127.00
36	1	1612	A	C5-C6-N1	-9.47	112.97	117.70
36	1	697	A	C5-C6-N1	-9.47	112.97	117.70
36	1	1198	C	N1-C2-N3	9.47	125.83	119.20
38	8	144	G	C5-C6-N1	9.47	116.23	111.50
36	1	364	G	N1-C2-N3	9.47	129.58	123.90
36	1	2338	C	C4-C5-C6	9.47	122.13	117.40
36	1	2965	U	N3-C4-O4	9.47	126.03	119.40
85	5	103	G	N3-C2-N2	-9.47	113.27	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	3	51	A	C5-C6-N6	-9.47	116.13	123.70
80	6	1117	U	N1-C2-O2	-9.47	116.17	122.80
85	5	981	U	C6-N1-C2	-9.47	115.32	121.00
36	1	13	A	C8-N9-C4	-9.47	102.01	105.80
36	1	2349	U	C5-C6-N1	-9.46	117.97	122.70
85	5	3213	A	C6-N1-C2	-9.47	112.92	118.60
80	6	1053	G	C4-C5-N7	9.46	114.59	110.80
85	5	567	G	C2-N3-C4	-9.46	107.17	111.90
85	5	2242	A	C2-N3-C4	9.47	115.33	110.60
85	5	2299	A	C8-N9-C4	9.46	109.59	105.80
85	5	3107	U	OP2-P-O3'	9.46	126.02	105.20
1	2	1715	A	C5-C6-N6	9.46	131.27	123.70
36	1	1540	U	N3-C2-O2	9.46	128.82	122.20
36	1	2399	A	O5'-P-OP2	9.46	122.05	110.70
85	5	807	A	C5-C6-N6	-9.46	116.13	123.70
36	1	496	C	C6-N1-C2	9.46	124.08	120.30
36	1	2864	A	N1-C6-N6	-9.46	112.92	118.60
38	4	111	A	C6-C5-N7	-9.46	125.68	132.30
85	5	997	A	C5-C6-N1	9.46	122.43	117.70
85	5	1306	G	C6-C5-N7	-9.46	124.72	130.40
85	5	1791	C	O5'-P-OP2	-9.46	97.19	105.70
37	7	38	U	N3-C2-O2	9.46	128.82	122.20
36	1	2142	A	N1-C6-N6	-9.46	112.92	118.60
80	6	339	C	N1-C2-N3	9.46	125.82	119.20
36	1	3026	G	C6-C5-N7	-9.46	124.73	130.40
85	5	1370	G	C6-N1-C2	-9.46	119.43	125.10
85	5	1781	C	C4-C5-C6	-9.46	112.67	117.40
85	5	2928	C	C4-C5-C6	9.46	122.13	117.40
85	5	3303	G	N1-C6-O6	-9.46	114.22	119.90
80	6	95	G	N9-C4-C5	9.46	109.18	105.40
85	5	95	A	N1-C6-N6	-9.46	112.93	118.60
85	5	115	A	C2-N3-C4	-9.46	105.87	110.60
38	8	92	A	C8-N9-C4	-9.46	102.02	105.80
36	1	1555	U	C5-C4-O4	9.45	131.57	125.90
36	1	2427	U	N3-C2-O2	-9.45	115.58	122.20
37	3	74	C	C5-C6-N1	9.45	125.73	121.00
80	6	876	G	N1-C6-O6	-9.46	114.23	119.90
80	6	896	U	C5-C4-O4	9.46	131.57	125.90
85	5	810	A	C6-N1-C2	-9.45	112.93	118.60
36	1	2685	C	C6-N1-C2	-9.45	116.52	120.30
80	6	351	C	O5'-P-OP2	-9.45	97.19	105.70
85	5	1321	G	N3-C2-N2	-9.45	113.28	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1397	C	N1-C2-O2	-9.45	113.23	118.90
36	1	1485	G	C8-N9-C4	9.45	110.18	106.40
36	1	2387	A	N1-C6-N6	9.45	124.27	118.60
38	4	1	A	C2-N3-C4	-9.45	105.87	110.60
85	5	101	G	C5-C6-O6	-9.45	122.93	128.60
85	5	820	A	N1-C2-N3	9.45	134.03	129.30
85	5	2869	U	N3-C4-O4	-9.45	112.78	119.40
85	5	1159	A	C5-N7-C8	-9.45	99.17	103.90
85	5	1170	A	N1-C6-N6	9.45	124.27	118.60
85	5	3375	A	C8-N9-C4	-9.45	102.02	105.80
1	2	1393	A	C4-C5-C6	9.45	121.72	117.00
36	1	883	A	N7-C8-N9	9.45	118.53	113.80
36	1	2870	C	C5-C4-N4	-9.45	113.58	120.20
1	2	599	A	N1-C6-N6	-9.45	112.93	118.60
38	4	63	G	N1-C6-O6	-9.45	114.23	119.90
85	5	1441	G	N1-C6-O6	9.45	125.57	119.90
1	2	93	A	C5-N7-C8	9.45	108.62	103.90
1	2	1132	G	N3-C4-C5	-9.45	123.88	128.60
36	1	1368	U	N3-C4-O4	9.45	126.01	119.40
36	1	1589	A	N1-C6-N6	-9.45	112.93	118.60
36	1	1610	G	C2-N3-C4	-9.45	107.18	111.90
38	4	26	U	C5-C6-N1	9.45	127.42	122.70
85	5	309	U	N1-C2-O2	-9.45	116.19	122.80
85	5	1844	C	N1-C2-N3	9.45	125.81	119.20
36	1	3078	U	N3-C4-C5	-9.44	108.93	114.60
85	5	366	A	C8-N9-C4	9.44	109.58	105.80
85	5	1307	G	C2-N3-C4	9.45	116.62	111.90
85	5	2219	A	C8-N9-C4	-9.44	102.02	105.80
85	5	2278	C	C5-C6-N1	9.45	125.72	121.00
36	1	1509	A	C5-N7-C8	-9.44	99.18	103.90
36	1	1618	G	C8-N9-C4	-9.44	102.62	106.40
36	1	2591	A	N1-C6-N6	9.44	124.27	118.60
36	1	3307	A	N1-C6-N6	9.44	124.27	118.60
80	6	323	A	C5-N7-C8	-9.44	99.18	103.90
85	5	2242	A	C5-N7-C8	9.44	108.62	103.90
38	4	56	G	N7-C8-N9	-9.44	108.38	113.10
80	6	1027	A	N1-C6-N6	9.44	124.27	118.60
85	5	3124	G	C8-N9-C4	-9.44	102.62	106.40
38	8	81	U	N1-C2-O2	9.44	129.41	122.80
80	6	94	U	O5'-P-OP2	-9.44	97.20	105.70
36	1	397	A	C2-N3-C4	9.44	115.32	110.60
80	6	1679	G	N1-C6-O6	-9.44	114.24	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	780	A	N7-C8-N9	9.44	118.52	113.80
85	5	1097	G	C4-C5-N7	-9.44	107.02	110.80
85	5	1177	G	N1-C6-O6	-9.44	114.24	119.90
85	5	2335	G	C8-N9-C4	-9.44	102.62	106.40
85	5	2357	A	C8-N9-C4	9.44	109.58	105.80
1	2	1113	G	C8-N9-C4	-9.44	102.63	106.40
36	1	143	G	N1-C2-N3	9.44	129.56	123.90
85	5	2838	A	C8-N9-C4	9.44	109.58	105.80
36	1	1747	G	N3-C2-N2	-9.44	113.30	119.90
36	1	2629	U	N3-C4-O4	9.44	126.01	119.40
80	6	527	A	N1-C2-N3	9.44	134.02	129.30
38	4	154	C	N3-C2-O2	9.44	128.50	121.90
80	6	321	C	N1-C2-O2	9.44	124.56	118.90
80	6	1599	C	N3-C2-O2	-9.44	115.30	121.90
85	5	1102	A	C8-N9-C4	-9.44	102.03	105.80
1	2	996	A	C2-N3-C4	9.43	115.32	110.60
36	1	25	U	C4-C5-C6	9.43	125.36	119.70
36	1	403	C	N3-C4-C5	-9.43	118.13	121.90
36	1	693	A	C4-C5-C6	9.43	121.72	117.00
36	1	1180	A	N1-C2-N3	9.43	134.02	129.30
36	1	1592	G	C2-N3-C4	-9.43	107.18	111.90
80	6	778	G	N1-C6-O6	-9.43	114.24	119.90
85	5	614	C	N3-C2-O2	-9.43	115.30	121.90
85	5	715	A	N3-C4-C5	-9.43	120.20	126.80
36	1	913	A	C4-C5-N7	9.43	115.42	110.70
85	5	1072	G	C8-N9-C4	-9.43	102.63	106.40
85	5	3332	U	N3-C2-O2	9.43	128.80	122.20
1	2	372	G	C5-C6-O6	9.43	134.26	128.60
36	1	2643	A	C5-N7-C8	-9.43	99.19	103.90
36	1	3345	G	C8-N9-C4	9.43	110.17	106.40
85	5	429	U	O5'-P-OP1	-9.43	97.21	105.70
1	2	1079	C	C5-C6-N1	9.43	125.71	121.00
36	1	1398	U	C4-C5-C6	9.43	125.36	119.70
80	6	111	U	O5'-P-OP2	-9.43	97.22	105.70
80	6	997	G	C2-N3-C4	-9.43	107.19	111.90
85	5	1088	U	N3-C4-C5	-9.43	108.94	114.60
85	5	1617	G	N1-C6-O6	9.43	125.56	119.90
85	5	2731	U	OP2-P-O3'	9.43	125.94	105.20
85	5	2911	A	O5'-P-OP1	9.43	122.02	110.70
1	2	347	G	N1-C6-O6	9.43	125.56	119.90
36	1	1345	G	C4-C5-N7	9.43	114.57	110.80
38	4	60	U	O5'-P-OP2	-9.43	97.22	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2753	G	C8-N9-C4	-9.43	102.63	106.40
1	2	905	G	C8-N9-C4	9.42	110.17	106.40
85	5	1524	A	N1-C6-N6	9.42	124.25	118.60
85	5	1668	G	C5-N7-C8	9.42	109.01	104.30
1	2	430	G	N9-C4-C5	9.42	109.17	105.40
36	1	1611	G	C6-N1-C2	9.42	130.75	125.10
36	1	2230	C	O5'-P-OP2	9.42	122.01	110.70
36	1	2401	A	C6-N1-C2	9.42	124.25	118.60
85	5	174	C	N1-C2-O2	9.42	124.55	118.90
36	1	2884	C	N3-C2-O2	9.42	128.50	121.90
38	4	80	A	C5-N7-C8	9.42	108.61	103.90
85	5	2093	A	N9-C4-C5	-9.42	102.03	105.80
85	5	2275	A	C4-C5-N7	9.42	115.41	110.70
85	5	2227	C	N3-C4-C5	-9.42	118.13	121.90
85	5	2591	A	N1-C6-N6	9.42	124.25	118.60
36	1	88	A	C5-C6-N6	9.42	131.24	123.70
36	1	172	G	C5-C6-N1	9.42	116.21	111.50
36	1	189	G	N9-C4-C5	9.42	109.17	105.40
36	1	2180	G	C5-C6-N1	-9.42	106.79	111.50
36	1	2772	C	C6-N1-C2	-9.42	116.53	120.30
80	6	934	C	N3-C2-O2	-9.42	115.31	121.90
85	5	1418	A	C5-C6-N6	-9.42	116.16	123.70
85	5	1429	G	N1-C6-O6	-9.42	114.25	119.90
85	5	2115	G	N3-C4-C5	-9.42	123.89	128.60
85	5	2326	A	C5-C6-N6	9.42	131.24	123.70
85	5	2637	A	C6-N1-C2	-9.42	112.95	118.60
85	5	2526	C	N3-C4-C5	9.42	125.67	121.90
36	1	372	A	O5'-P-OP2	-9.42	97.23	105.70
36	1	570	A	C8-N9-C4	-9.42	102.03	105.80
36	1	895	A	C5-C6-N1	-9.42	112.99	117.70
36	1	1319	G	C8-N9-C4	-9.42	102.63	106.40
85	5	126	U	O5'-P-OP2	-9.42	97.22	105.70
85	5	1793	C	C2-N3-C4	9.42	124.61	119.90
85	5	221	A	C5-C6-N1	-9.42	112.99	117.70
1	2	527	A	C8-N9-C4	-9.41	102.03	105.80
36	1	1465	A	C8-N9-C4	9.41	109.57	105.80
36	1	2614	G	C4-C5-N7	-9.41	107.03	110.80
36	1	2976	A	N1-C2-N3	9.41	134.01	129.30
36	1	3054	U	N1-C2-O2	-9.41	116.21	122.80
85	5	1433	A	N3-C4-C5	-9.41	120.21	126.80
36	1	2701	U	C5-C6-N1	-9.41	117.99	122.70
36	1	2816	G	N3-C2-N2	-9.41	113.31	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	481	A	C8-N9-C4	9.41	109.57	105.80
80	6	1733	C	N3-C2-O2	-9.41	115.31	121.90
38	4	137	C	N3-C2-O2	9.41	128.49	121.90
80	6	587	C	C6-N1-C2	9.41	124.06	120.30
85	5	997	A	N1-C2-N3	9.41	134.01	129.30
85	5	2341	A	O5'-P-OP2	-9.41	97.23	105.70
85	5	2399	A	OP1-P-O3'	9.41	125.91	105.20
85	5	3223	A	C6-N1-C2	-9.41	112.95	118.60
85	5	433	A	N1-C2-N3	9.41	134.01	129.30
85	5	2706	G	O5'-P-OP2	-9.41	97.23	105.70
36	1	283	G	N3-C4-C5	9.41	133.31	128.60
36	1	428	A	N1-C6-N6	-9.41	112.95	118.60
36	1	1311	G	N1-C2-N3	9.41	129.55	123.90
80	6	314	C	N1-C2-O2	-9.41	113.25	118.90
85	5	632	G	O5'-P-OP1	9.41	121.99	110.70
36	1	1658	G	C8-N9-C4	-9.41	102.64	106.40
36	1	1760	A	C8-N9-C4	-9.41	102.04	105.80
36	1	2111	G	C8-N9-C4	9.41	110.16	106.40
85	5	80	G	C5-N7-C8	-9.41	99.59	104.30
85	5	1804	A	N1-C2-N3	9.41	134.00	129.30
36	1	644	G	N1-C6-O6	-9.41	114.25	119.90
36	1	1043	C	N3-C4-C5	9.41	125.66	121.90
85	5	1349	G	C5-N7-C8	9.41	109.00	104.30
1	2	1016	C	N1-C2-O2	9.41	124.54	118.90
36	1	915	A	O5'-P-OP2	9.41	121.99	110.70
85	5	157	A	N1-C2-N3	9.41	134.00	129.30
85	5	1104	G	C8-N9-C4	-9.41	102.64	106.40
85	5	3009	G	C2-N3-C4	-9.41	107.20	111.90
85	5	2440	G	C8-N9-C4	-9.41	102.64	106.40
85	5	2891	U	OP1-P-OP2	-9.41	105.49	119.60
36	1	2855	U	N1-C2-O2	-9.40	116.22	122.80
80	6	10	G	N1-C6-O6	9.40	125.54	119.90
80	6	101	U	N3-C2-O2	-9.40	115.62	122.20
80	6	1592	A	C5-N7-C8	-9.40	99.20	103.90
85	5	1846	C	N3-C4-C5	9.40	125.66	121.90
85	5	1200	A	C4-C5-C6	9.40	121.70	117.00
85	5	1321	G	C6-C5-N7	-9.40	124.76	130.40
85	5	2798	C	C5-C6-N1	-9.40	116.30	121.00
85	5	3245	A	N1-C2-N3	9.40	134.00	129.30
36	1	107	A	O5'-P-OP2	9.40	121.98	110.70
36	1	1287	A	C8-N9-C4	-9.40	102.04	105.80
36	1	1683	A	C5-C6-N6	-9.40	116.18	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1846	C	C6-N1-C2	-9.40	116.54	120.30
36	1	2142	A	N9-C4-C5	9.40	109.56	105.80
36	1	2168	A	C5-N7-C8	9.40	108.60	103.90
36	1	2228	A	O5'-P-OP1	9.40	121.98	110.70
85	5	916	G	N3-C4-C5	-9.40	123.90	128.60
80	6	1455	G	C5-N7-C8	-9.40	99.60	104.30
85	5	44	U	N3-C4-O4	-9.40	112.82	119.40
85	5	105	C	N1-C2-O2	-9.40	113.26	118.90
85	5	227	G	OP1-P-OP2	9.40	133.70	119.60
85	5	301	G	C5-N7-C8	9.40	109.00	104.30
85	5	736	A	N1-C6-N6	9.40	124.24	118.60
85	5	3314	A	N1-C6-N6	-9.40	112.96	118.60
38	8	55	U	N3-C4-C5	-9.40	108.96	114.60
1	2	1108	A	C8-N9-C4	-9.40	102.04	105.80
36	1	72	C	OP1-P-OP2	-9.40	105.50	119.60
36	1	775	A	C6-C5-N7	-9.40	125.72	132.30
36	1	1157	G	N1-C6-O6	-9.40	114.26	119.90
85	5	1077	U	C2-N3-C4	-9.40	121.36	127.00
1	2	1575	A	N7-C8-N9	9.40	118.50	113.80
36	1	2201	G	OP1-P-OP2	-9.40	105.50	119.60
80	6	652	G	N3-C4-N9	-9.40	120.36	126.00
85	5	702	C	C5-C4-N4	-9.40	113.62	120.20
85	5	1862	U	C6-N1-C2	-9.40	115.36	121.00
85	5	2315	G	O5'-P-OP1	-9.40	97.24	105.70
85	5	3027	A	N1-C2-N3	9.40	134.00	129.30
85	5	3133	C	C5-C4-N4	-9.40	113.62	120.20
1	2	741	U	C5-C4-O4	9.39	131.54	125.90
36	1	280	U	N1-C2-N3	9.39	120.54	114.90
36	1	800	G	C5-N7-C8	-9.39	99.60	104.30
36	1	948	C	N1-C2-O2	-9.39	113.26	118.90
36	1	1382	G	C5-C6-N1	9.39	116.20	111.50
37	3	91	G	N7-C8-N9	9.39	117.80	113.10
80	6	1214	U	N3-C4-C5	-9.39	108.96	114.60
85	5	2967	A	N9-C4-C5	9.39	109.56	105.80
85	5	636	C	C5-C4-N4	-9.39	113.62	120.20
36	1	351	A	N1-C6-N6	-9.39	112.97	118.60
36	1	405	U	N3-C4-O4	9.39	125.97	119.40
36	1	687	U	N3-C4-C5	-9.39	108.97	114.60
36	1	1166	G	N9-C4-C5	-9.39	101.64	105.40
85	5	1350	A	C4-C5-N7	-9.39	106.00	110.70
85	5	2618	G	OP1-P-OP2	9.39	133.69	119.60
85	5	2628	A	N1-C2-N3	9.39	134.00	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3036	G	N1-C2-N3	9.39	129.53	123.90
85	5	3273	A	C5-N7-C8	-9.39	99.20	103.90
36	1	1790	G	C6-C5-N7	-9.39	124.77	130.40
80	6	1657	U	O5'-P-OP2	-9.39	97.25	105.70
85	5	789	A	O5'-P-OP2	-9.39	97.25	105.70
85	5	1311	G	C4-C5-N7	-9.39	107.05	110.80
85	5	1473	G	C5-C6-N1	-9.39	106.81	111.50
85	5	1835	A	N1-C2-N3	9.39	133.99	129.30
85	5	2740	A	C5-N7-C8	-9.39	99.21	103.90
1	2	111	U	C5-C4-O4	-9.38	120.27	125.90
36	1	538	G	C2-N3-C4	-9.39	107.21	111.90
36	1	2971	A	N9-C4-C5	9.38	109.55	105.80
85	5	1639	C	N3-C4-C5	-9.38	118.15	121.90
85	5	2249	G	N9-C4-C5	9.38	109.15	105.40
85	5	2410	U	N3-C4-O4	9.38	125.97	119.40
85	5	2621	G	N1-C2-N2	9.38	124.64	116.20
38	8	85	G	O5'-P-OP1	-9.38	97.25	105.70
36	1	3243	A	N1-C2-N3	9.38	133.99	129.30
36	1	148	G	N1-C6-O6	-9.38	114.27	119.90
36	1	2675	C	C2-N3-C4	-9.38	115.21	119.90
80	6	1122	G	C5-C6-N1	-9.38	106.81	111.50
85	5	149	U	N3-C4-O4	9.38	125.97	119.40
85	5	342	A	C6-N1-C2	-9.38	112.97	118.60
85	5	1490	A	N1-C6-N6	-9.38	112.97	118.60
85	5	2221	G	N9-C4-C5	-9.38	101.65	105.40
85	5	2929	C	N1-C2-N3	9.38	125.77	119.20
36	1	2618	G	C8-N9-C4	-9.38	102.65	106.40
36	1	2683	U	N1-C2-O2	-9.38	116.23	122.80
80	6	101	U	N1-C2-O2	9.38	129.37	122.80
80	6	1601	G	C5-C6-N1	9.38	116.19	111.50
85	5	225	C	N3-C4-N4	9.38	124.57	118.00
85	5	1140	G	C5-C6-N1	9.38	116.19	111.50
85	5	1406	A	C6-N1-C2	-9.38	112.97	118.60
85	5	2850	G	C8-N9-C1'	-9.38	114.80	127.00
85	5	2931	C	O5'-P-OP1	-9.38	97.26	105.70
38	8	61	A	C6-N1-C2	-9.38	112.97	118.60
1	2	317	C	C6-N1-C2	9.38	124.05	120.30
36	1	577	C	N3-C4-N4	9.38	124.56	118.00
36	1	820	A	N1-C6-N6	-9.38	112.97	118.60
80	6	1131	A	C6-N1-C2	-9.38	112.97	118.60
85	5	3183	A	C2-N3-C4	-9.38	105.91	110.60
36	1	1675	G	C2-N3-C4	9.38	116.59	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	363	G	N3-C2-N2	-9.38	113.34	119.90
85	5	382	U	N3-C4-C5	-9.38	108.97	114.60
85	5	1397	C	N3-C4-C5	-9.38	118.15	121.90
85	5	2832	C	N1-C2-O2	-9.38	113.27	118.90
36	1	390	G	C4-C5-N7	9.38	114.55	110.80
36	1	676	G	C4-N9-C1'	9.38	138.69	126.50
1	2	587	C	N3-C4-C5	-9.37	118.15	121.90
36	1	898	U	N1-C2-N3	-9.37	109.28	114.90
36	1	946	U	N1-C2-N3	9.38	120.53	114.90
36	1	1356	U	C5-C6-N1	-9.38	118.01	122.70
36	1	1793	C	N1-C2-O2	9.38	124.53	118.90
36	1	2877	G	C6-N1-C2	-9.38	119.47	125.10
36	1	3170	A	C8-N9-C4	-9.38	102.05	105.80
37	3	5	G	C5-C6-N1	9.38	116.19	111.50
80	6	879	G	C5-C6-O6	9.38	134.23	128.60
85	5	1435	A	C5-C6-N1	9.38	122.39	117.70
85	5	2950	G	C6-C5-N7	-9.38	124.78	130.40
80	6	570	A	N7-C8-N9	9.37	118.49	113.80
80	6	1330	G	C5-C6-N1	-9.37	106.81	111.50
85	5	2907	G	C6-C5-N7	-9.38	124.78	130.40
38	4	17	A	N7-C8-N9	9.37	118.49	113.80
80	6	1148	C	C6-N1-C2	-9.37	116.55	120.30
1	2	464	A	C8-N9-C4	-9.37	102.05	105.80
36	1	10	C	OP1-P-OP2	-9.37	105.54	119.60
36	1	2967	A	N1-C2-N3	9.37	133.99	129.30
36	1	3200	G	C4-C5-N7	-9.37	107.05	110.80
85	5	1181	U	N3-C4-C5	-9.37	108.98	114.60
85	5	1495	U	OP1-P-O3'	9.37	125.82	105.20
85	5	2334	U	C6-N1-C2	-9.37	115.38	121.00
1	2	343	C	C5-C6-N1	9.37	125.68	121.00
1	2	1348	C	C6-N1-C2	-9.37	116.55	120.30
1	2	836	G	N1-C6-O6	9.37	125.52	119.90
36	1	18	G	C5-C6-O6	-9.37	122.98	128.60
36	1	356	C	C6-N1-C2	-9.37	116.55	120.30
36	1	2682	C	C2-N3-C4	-9.37	115.22	119.90
36	1	3054	U	O5'-P-OP2	-9.37	97.27	105.70
36	1	3312	U	O5'-P-OP2	-9.37	97.27	105.70
80	6	330	G	C5-C6-O6	-9.37	122.98	128.60
85	5	653	A	C8-N9-C4	-9.37	102.05	105.80
85	5	2795	U	N3-C4-O4	9.37	125.96	119.40
85	5	3151	U	N1-C2-N3	-9.37	109.28	114.90
1	2	1593	G	C8-N9-C4	9.37	110.15	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	804	C	C5-C6-N1	9.37	125.68	121.00
85	5	215	G	C5-C6-N1	-9.37	106.82	111.50
85	5	339	C	N3-C2-O2	9.37	128.46	121.90
85	5	804	C	C5-C4-N4	-9.36	113.64	120.20
85	5	2814	G	C4-C5-C6	9.37	124.42	118.80
1	2	1565	U	C5-C6-N1	-9.36	118.02	122.70
36	1	1930	A	O5'-P-OP2	-9.36	97.27	105.70
80	6	1768	G	N3-C2-N2	-9.36	113.35	119.90
36	1	1166	G	N3-C4-C5	9.36	133.28	128.60
36	1	1364	C	C4-C5-C6	-9.36	112.72	117.40
36	1	2150	G	C5-C6-N1	-9.36	106.82	111.50
36	1	2629	U	N3-C4-C5	-9.36	108.98	114.60
85	5	1436	U	OP1-P-OP2	-9.36	105.56	119.60
85	5	3025	C	N3-C4-N4	-9.36	111.45	118.00
85	5	2807	U	C4-C5-C6	9.36	125.32	119.70
85	5	2901	G	C5-C6-N1	9.36	116.18	111.50
36	1	811	U	C4-C5-C6	9.36	125.32	119.70
1	2	680	C	N1-C2-O2	9.36	124.52	118.90
36	1	114	A	C4-C5-N7	9.36	115.38	110.70
36	1	135	C	C4-C5-C6	9.36	122.08	117.40
36	1	275	U	C5-C4-O4	9.36	131.52	125.90
85	5	1754	G	N3-C4-C5	-9.36	123.92	128.60
36	1	290	G	C5-C6-N1	9.36	116.18	111.50
38	4	114	G	N3-C2-N2	-9.36	113.35	119.90
85	5	1190	A	C4-C5-N7	-9.36	106.02	110.70
85	5	2350	C	C5-C6-N1	-9.36	116.32	121.00
85	5	3091	A	C5-C6-N1	9.36	122.38	117.70
36	1	522	A	C6-C5-N7	-9.36	125.75	132.30
80	6	533	U	C5-C4-O4	9.36	131.51	125.90
36	1	1848	G	C5-C6-N1	9.36	116.18	111.50
36	1	2551	U	C5-C4-O4	9.36	131.51	125.90
36	1	2629	U	C4-C5-C6	9.36	125.31	119.70
80	6	1681	A	N1-C6-N6	9.36	124.21	118.60
36	1	3233	C	C6-N1-C2	9.36	124.04	120.30
38	4	72	A	O5'-P-OP1	-9.36	97.28	105.70
85	5	1841	A	C5-C6-N6	-9.36	116.22	123.70
85	5	2354	C	C6-N1-C2	-9.36	116.56	120.30
85	5	2961	G	C8-N9-C4	-9.36	102.66	106.40
36	1	1431	G	C5-C6-O6	9.35	134.21	128.60
36	1	2373	A	C2-N3-C4	-9.35	105.92	110.60
36	1	2941	A	N1-C6-N6	9.35	124.21	118.60
80	6	1207	C	N1-C2-O2	-9.35	113.29	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	114	A	N9-C4-C5	-9.35	102.06	105.80
85	5	1135	A	N1-C2-N3	9.35	133.98	129.30
85	5	1322	U	N3-C4-C5	-9.35	108.99	114.60
85	5	1587	A	C8-N9-C4	9.35	109.54	105.80
85	5	1885	U	N1-C2-O2	-9.35	116.25	122.80
85	5	2123	G	C8-N9-C4	9.35	110.14	106.40
1	2	1264	G	C2-N3-C4	-9.35	107.22	111.90
36	1	206	G	C4-C5-N7	9.35	114.54	110.80
36	1	293	C	OP1-P-OP2	-9.35	105.57	119.60
36	1	1178	G	N1-C2-N2	-9.35	107.78	116.20
36	1	2794	G	N1-C2-N3	9.35	129.51	123.90
80	6	1765	A	N1-C6-N6	-9.35	112.99	118.60
85	5	198	A	C5-C6-N1	-9.35	113.03	117.70
85	5	641	C	C4-C5-C6	-9.35	112.72	117.40
85	5	2657	A	C5-C6-N6	9.35	131.18	123.70
85	5	3279	A	N9-C4-C5	9.35	109.54	105.80
85	5	3364	C	O5'-P-OP2	-9.35	97.28	105.70
38	8	52	A	N1-C2-N3	9.35	133.98	129.30
1	2	30	G	N1-C6-O6	9.35	125.51	119.90
1	2	429	G	N7-C8-N9	9.35	117.77	113.10
80	6	317	C	C4-C5-C6	9.35	122.08	117.40
80	6	975	C	N3-C4-N4	-9.35	111.45	118.00
36	1	233	C	O5'-P-OP1	9.35	121.92	110.70
36	1	2655	U	O5'-P-OP2	-9.35	97.29	105.70
36	1	2787	G	N3-C2-N2	-9.35	113.36	119.90
36	1	3232	G	N1-C6-O6	-9.35	114.29	119.90
38	4	56	G	N1-C2-N3	9.35	129.51	123.90
85	5	83	U	C5-C6-N1	-9.35	118.03	122.70
85	5	930	U	N3-C2-O2	9.35	128.74	122.20
85	5	953	G	C5-C6-N1	9.35	116.17	111.50
85	5	1222	G	C5-C6-O6	-9.35	122.99	128.60
85	5	3247	G	N9-C4-C5	-9.35	101.66	105.40
1	2	720	A	C8-N9-C4	9.35	109.54	105.80
1	2	1466	A	C8-N9-C4	-9.35	102.06	105.80
1	2	1127	U	N3-C2-O2	-9.35	115.66	122.20
85	5	341	G	N3-C4-C5	9.35	133.27	128.60
85	5	661	G	O5'-P-OP1	-9.35	97.29	105.70
85	5	2187	G	C4-C5-N7	9.35	114.54	110.80
85	5	2608	G	OP2-P-O3'	9.35	125.76	105.20
85	5	2775	U	N3-C4-O4	-9.35	112.86	119.40
38	8	92	A	C6-C5-N7	-9.35	125.76	132.30
36	1	233	C	C6-N1-C2	9.34	124.04	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2619	G	N1-C2-N3	9.34	129.51	123.90
36	1	639	G	N3-C2-N2	-9.34	113.36	119.90
85	5	2425	G	C5-C6-N1	-9.34	106.83	111.50
85	5	2624	G	C5-N7-C8	-9.34	99.63	104.30
85	5	3092	C	N3-C4-C5	9.34	125.64	121.90
37	7	64	A	C2-N3-C4	9.34	115.27	110.60
36	1	1621	A	C8-N9-C4	9.34	109.54	105.80
85	5	498	A	C2-N3-C4	-9.34	105.93	110.60
85	5	814	U	C6-N1-C2	-9.34	115.39	121.00
85	5	1002	A	C8-N9-C4	-9.34	102.06	105.80
85	5	1283	C	N3-C4-C5	-9.34	118.16	121.90
37	7	31	U	C5-C4-O4	-9.34	120.30	125.90
36	1	104	G	N7-C8-N9	9.34	117.77	113.10
36	1	1547	G	N7-C8-N9	-9.34	108.43	113.10
85	5	883	A	C8-N9-C4	-9.34	102.06	105.80
85	5	985	U	C5-C6-N1	-9.34	118.03	122.70
85	5	2419	A	C5-C6-N1	-9.34	113.03	117.70
1	2	1132	G	N1-C6-O6	-9.34	114.30	119.90
36	1	1603	A	C5-N7-C8	9.34	108.57	103.90
36	1	2859	U	O5'-P-OP2	-9.34	97.30	105.70
80	6	1720	G	C6-C5-N7	-9.34	124.80	130.40
85	5	1115	G	C6-C5-N7	-9.34	124.80	130.40
85	5	1790	G	C5-C6-N1	-9.34	106.83	111.50
85	5	3248	C	N3-C2-O2	9.34	128.44	121.90
85	5	2290	C	C5-C4-N4	9.34	126.73	120.20
85	5	2314	U	OP1-P-OP2	-9.34	105.60	119.60
38	8	39	G	N1-C2-N3	9.34	129.50	123.90
75	o9	8	ARG	NE-CZ-NH1	-9.34	115.63	120.30
85	5	1903	U	C4-C5-C6	9.33	125.30	119.70
1	2	767	C	C6-N1-C2	-9.33	116.57	120.30
36	1	683	U	N3-C2-O2	9.33	128.73	122.20
80	6	589	C	C2-N3-C4	9.33	124.57	119.90
85	5	31	C	C5-C6-N1	-9.33	116.33	121.00
85	5	1185	C	N1-C2-N3	9.33	125.73	119.20
85	5	1688	U	N3-C2-O2	-9.33	115.67	122.20
85	5	1733	G	C4-C5-N7	9.33	114.53	110.80
85	5	2206	G	C5-C6-N1	9.33	116.17	111.50
85	5	2356	A	N7-C8-N9	9.33	118.47	113.80
85	5	3046	A	C4-C5-N7	-9.33	106.03	110.70
37	7	84	A	N1-C2-N3	9.33	133.97	129.30
38	8	20	U	C2-N3-C4	-9.33	121.40	127.00
38	8	33	A	O5'-P-OP1	-9.33	97.30	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1152	G	N1-C6-O6	-9.33	114.30	119.90
36	1	886	C	N1-C2-N3	-9.33	112.67	119.20
36	1	3028	G	C5-C6-O6	-9.33	123.00	128.60
85	5	630	A	N1-C2-N3	9.33	133.97	129.30
85	5	1220	U	C5-C6-N1	-9.33	118.03	122.70
36	1	1165	A	N3-C4-C5	9.33	133.33	126.80
36	1	1459	C	C2-N3-C4	-9.33	115.23	119.90
85	5	721	G	C4-C5-C6	9.33	124.40	118.80
85	5	2813	A	O5'-P-OP1	-9.33	97.30	105.70
85	5	2982	A	OP1-P-OP2	-9.33	105.61	119.60
36	1	89	A	C8-N9-C4	-9.33	102.07	105.80
36	1	2181	C	C5-C6-N1	9.33	125.66	121.00
36	1	2645	G	N7-C8-N9	-9.33	108.44	113.10
80	6	261	U	N3-C2-O2	-9.33	115.67	122.20
80	6	1122	G	N1-C6-O6	9.33	125.50	119.90
85	5	660	A	O5'-P-OP1	-9.33	97.31	105.70
85	5	2201	G	C8-N9-C4	9.33	110.13	106.40
38	8	126	A	O5'-P-OP1	9.33	121.89	110.70
1	2	356	G	C8-N9-C4	-9.32	102.67	106.40
36	1	995	U	N3-C4-O4	9.32	125.93	119.40
36	1	1099	A	N1-C2-N3	9.32	133.96	129.30
85	5	2968	G	C4-C5-N7	-9.32	107.07	110.80
1	2	1368	G	C5-N7-C8	-9.32	99.64	104.30
36	1	948	C	N3-C2-O2	9.32	128.43	121.90
36	1	1390	A	C4-C5-N7	-9.32	106.04	110.70
36	1	2200	U	N1-C2-N3	9.32	120.49	114.90
36	1	2858	U	N1-C2-O2	-9.32	116.27	122.80
36	1	3388	C	N1-C2-O2	9.32	124.49	118.90
80	6	1460	A	C8-N9-C4	9.32	109.53	105.80
80	6	1777	G	N3-C4-N9	-9.32	120.41	126.00
85	5	2855	U	N1-C2-N3	9.32	120.49	114.90
1	2	1738	A	C5-C6-N1	-9.32	113.04	117.70
36	1	1514	G	C4-C5-N7	9.32	114.53	110.80
85	5	1063	G	O5'-P-OP2	9.32	121.89	110.70
85	5	3200	G	N7-C8-N9	9.32	117.76	113.10
38	8	47	C	C6-N1-C2	-9.32	116.57	120.30
36	1	1139	G	C4-C5-N7	-9.32	107.07	110.80
36	1	2705	A	N7-C8-N9	-9.32	109.14	113.80
38	4	47	C	N3-C4-N4	-9.32	111.48	118.00
80	6	373	G	C4-C5-N7	-9.32	107.07	110.80
80	6	1214	U	C2-N1-C1'	9.32	128.88	117.70
85	5	369	A	N1-C2-N3	9.32	133.96	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2329	C	N3-C4-N4	9.32	124.52	118.00
85	5	2400	G	OP1-P-OP2	-9.32	105.62	119.60
85	5	3054	U	N3-C2-O2	-9.32	115.68	122.20
85	5	69	C	C6-N1-C2	-9.32	116.57	120.30
85	5	682	U	O5'-P-OP1	-9.32	97.31	105.70
85	5	998	A	N1-C2-N3	9.32	133.96	129.30
36	1	1433	A	N1-C6-N6	-9.32	113.01	118.60
36	1	1527	C	C4-C5-C6	-9.32	112.74	117.40
36	1	2240	G	C5-C6-O6	-9.32	123.01	128.60
36	1	2746	A	C2-N3-C4	-9.32	105.94	110.60
85	5	431	U	C4-C5-C6	9.32	125.29	119.70
85	5	908	G	C8-N9-C4	-9.32	102.67	106.40
85	5	1750	A	C5-N7-C8	-9.32	99.24	103.90
85	5	1897	G	N3-C2-N2	-9.32	113.38	119.90
85	5	2348	A	C4-C5-C6	9.32	121.66	117.00
85	5	3311	C	N3-C4-C5	-9.32	118.17	121.90
38	8	19	C	N1-C2-O2	-9.32	113.31	118.90
36	1	2326	A	N1-C6-N6	-9.31	113.01	118.60
36	1	2984	C	C4-C5-C6	-9.31	112.74	117.40
85	5	529	A	OP1-P-OP2	-9.31	105.63	119.60
85	5	703	G	N7-C8-N9	9.31	117.76	113.10
85	5	980	A	C4-C5-N7	-9.31	106.04	110.70
85	5	2233	A	N1-C2-N3	9.31	133.96	129.30
85	5	3021	A	N7-C8-N9	9.31	118.46	113.80
85	5	3269	U	C5-C4-O4	9.31	131.49	125.90
37	7	62	U	OP1-P-OP2	9.31	133.57	119.60
36	1	3243	A	C8-N9-C4	-9.31	102.08	105.80
37	3	25	G	C8-N9-C4	-9.31	102.67	106.40
80	6	411	C	N3-C2-O2	-9.31	115.38	121.90
36	1	360	G	N3-C4-C5	-9.31	123.94	128.60
36	1	826	G	C2-N3-C4	-9.31	107.24	111.90
37	3	92	A	N1-C2-N3	9.31	133.96	129.30
36	1	3318	G	N1-C2-N3	9.31	129.49	123.90
80	6	874	C	N3-C4-C5	-9.31	118.18	121.90
85	5	958	C	C2-N1-C1'	9.31	129.04	118.80
85	5	1205	A	N3-C4-C5	-9.31	120.28	126.80
85	5	2407	C	N1-C2-O2	-9.31	113.31	118.90
85	5	3020	U	C6-N1-C2	-9.31	115.41	121.00
36	1	621	A	N1-C2-N3	-9.31	124.65	129.30
36	1	1583	A	C4-C5-C6	9.31	121.66	117.00
36	1	2396	G	C5-C6-N1	-9.31	106.85	111.50
36	1	2409	G	OP1-P-OP2	9.31	133.56	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3377	G	C5-C6-O6	-9.31	123.02	128.60
85	5	743	C	N1-C2-N3	9.31	125.72	119.20
85	5	3114	A	N1-C2-N3	9.31	133.96	129.30
36	1	2635	A	N1-C6-N6	-9.31	113.02	118.60
85	5	836	A	C5-C6-N1	9.31	122.35	117.70
85	5	918	C	N1-C2-O2	-9.31	113.32	118.90
1	2	1486	A	N7-C8-N9	9.30	118.45	113.80
36	1	17	G	N9-C4-C5	-9.30	101.68	105.40
36	1	436	A	C4-C5-N7	9.30	115.35	110.70
36	1	909	G	N7-C8-N9	-9.30	108.45	113.10
36	1	1323	G	OP2-P-O3'	9.30	125.67	105.20
36	1	3174	A	C5-C6-N1	-9.30	113.05	117.70
36	1	3272	C	C2-N3-C4	9.31	124.55	119.90
80	6	755	A	C5-N7-C8	-9.30	99.25	103.90
85	5	514	G	C5-C6-O6	-9.31	123.02	128.60
85	5	836	A	C6-N1-C2	-9.31	113.02	118.60
85	5	2824	G	C6-C5-N7	-9.31	124.82	130.40
36	1	1147	G	C4-C5-N7	-9.30	107.08	110.80
36	1	1438	U	N1-C2-N3	9.30	120.48	114.90
85	5	946	U	N3-C4-C5	-9.30	109.02	114.60
85	5	974	G	O5'-P-OP2	-9.30	97.33	105.70
85	5	1778	G	C5-C6-N1	9.30	116.15	111.50
39	12	23	ARG	NE-CZ-NH1	-9.30	115.65	120.30
36	1	2183	A	C5-C6-N6	-9.30	116.26	123.70
85	5	1147	G	C5-C6-O6	9.30	134.18	128.60
1	2	1065	C	N3-C4-C5	-9.30	118.18	121.90
36	1	616	G	C5-C6-O6	-9.30	123.02	128.60
85	5	41	G	N9-C4-C5	-9.30	101.68	105.40
85	5	1417	G	C4-C5-N7	9.30	114.52	110.80
85	5	2280	A	C8-N9-C4	-9.30	102.08	105.80
37	7	38	U	C5-C4-O4	-9.30	120.32	125.90
36	1	834	U	C4-C5-C6	9.30	125.28	119.70
85	5	3373	U	N1-C2-N3	9.30	120.48	114.90
1	2	1440	C	OP1-P-OP2	-9.30	105.66	119.60
1	2	1715	A	N1-C6-N6	-9.30	113.02	118.60
36	1	1808	G	C5-N7-C8	9.30	108.95	104.30
36	1	1869	C	N3-C4-N4	9.30	124.51	118.00
36	1	3330	A	C8-N9-C4	-9.30	102.08	105.80
36	1	401	U	N1-C2-O2	9.29	129.31	122.80
36	1	790	U	N1-C2-O2	9.29	129.31	122.80
36	1	1502	C	N3-C4-C5	-9.30	118.18	121.90
36	1	2116	G	C4-C5-N7	-9.30	107.08	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	308	A	C4-C5-C6	9.30	121.65	117.00
85	5	644	G	C4-C5-C6	9.30	124.38	118.80
36	1	2396	G	C2-N3-C4	-9.29	107.25	111.90
85	5	1366	A	C8-N9-C4	-9.29	102.08	105.80
85	5	1657	C	N1-C2-O2	9.30	124.48	118.90
1	2	1736	A	N1-C6-N6	9.29	124.18	118.60
36	1	1345	G	N1-C6-O6	9.29	125.48	119.90
85	5	1735	G	N1-C6-O6	9.29	125.48	119.90
80	6	272	U	C5-C4-O4	-9.29	120.33	125.90
85	5	1147	G	N9-C4-C5	9.29	109.12	105.40
85	5	1316	C	O4'-C1'-N1	-9.29	100.77	108.20
85	5	1713	G	N1-C6-O6	-9.29	114.33	119.90
38	8	112	U	N3-C2-O2	9.29	128.71	122.20
85	5	2848	G	N3-C2-N2	-9.29	113.40	119.90
85	5	3327	G	N3-C4-N9	-9.29	120.42	126.00
36	1	159	A	N3-C4-C5	9.29	133.30	126.80
36	1	1757	A	C5-C6-N1	-9.29	113.06	117.70
36	1	2241	U	N1-C2-O2	-9.29	116.30	122.80
85	5	283	G	O4'-C1'-N9	-9.29	100.77	108.20
1	2	1500	U	C4-C5-C6	9.29	125.27	119.70
36	1	1166	G	C5-N7-C8	-9.29	99.66	104.30
80	6	408	C	N3-C2-O2	-9.29	115.40	121.90
85	5	504	A	C4-C5-N7	9.29	115.34	110.70
85	5	991	G	C5-N7-C8	-9.29	99.66	104.30
85	5	1404	G	N3-C4-C5	9.29	133.24	128.60
85	5	1873	U	C6-N1-C2	-9.29	115.43	121.00
85	5	2113	A	N1-C6-N6	-9.29	113.03	118.60
85	5	3095	U	N1-C2-O2	-9.29	116.30	122.80
38	8	62	C	C4-C5-C6	-9.29	112.76	117.40
36	1	597	G	C6-N1-C2	-9.29	119.53	125.10
36	1	1316	C	C4-C5-C6	9.29	122.04	117.40
36	1	3130	A	C8-N9-C4	-9.29	102.09	105.80
38	4	116	G	N3-C4-C5	9.29	133.24	128.60
85	5	657	A	C6-C5-N7	-9.29	125.80	132.30
85	5	2316	G	N9-C4-C5	9.29	109.11	105.40
85	5	2703	A	C8-N9-C4	-9.29	102.09	105.80
85	5	2734	A	C2-N3-C4	-9.29	105.96	110.60
37	7	9	C	N1-C2-N3	9.29	125.70	119.20
1	2	1309	A	C5-C6-N1	9.28	122.34	117.70
1	2	1486	A	N1-C6-N6	9.28	124.17	118.60
36	1	337	G	C6-C5-N7	-9.28	124.83	130.40
36	1	1103	A	N3-C4-N9	9.28	134.83	127.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	140	G	C2-N3-C4	-9.28	107.26	111.90
36	1	1129	A	C6-N1-C2	-9.28	113.03	118.60
36	1	2185	G	C8-N9-C4	-9.28	102.69	106.40
36	1	3045	G	C4-C5-C6	9.28	124.37	118.80
36	1	3335	A	C5-C6-N6	-9.28	116.28	123.70
37	3	110	G	C5-N7-C8	9.28	108.94	104.30
80	6	143	G	C5-N7-C8	-9.28	99.66	104.30
80	6	1729	C	C2-N3-C4	-9.28	115.26	119.90
85	5	1779	C	C6-N1-C2	-9.28	116.59	120.30
1	2	851	G	C8-N9-C4	-9.28	102.69	106.40
85	5	1415	U	N3-C4-O4	9.28	125.90	119.40
1	2	1519	G	N3-C2-N2	9.28	126.39	119.90
36	1	405	U	C6-N1-C1'	-9.28	108.21	121.20
36	1	507	U	C6-N1-C2	-9.28	115.43	121.00
36	1	1459	C	N3-C4-C5	-9.28	118.19	121.90
37	3	104	A	C2-N3-C4	-9.28	105.96	110.60
38	4	140	G	N3-C2-N2	-9.28	113.40	119.90
80	6	1550	A	C4-C5-N7	9.28	115.34	110.70
85	5	2259	A	C5-C6-N1	-9.28	113.06	117.70
85	5	361	A	C8-N9-C4	9.28	109.51	105.80
85	5	604	G	C5-C6-O6	-9.28	123.03	128.60
85	5	616	G	N1-C2-N3	9.28	129.47	123.90
36	1	319	A	O5'-P-OP2	9.28	121.83	110.70
36	1	905	U	N1-C2-N3	9.28	120.47	114.90
36	1	2705	A	C5-C6-N1	9.28	122.34	117.70
80	6	102	U	O5'-P-OP1	-9.28	97.35	105.70
80	6	962	C	C5-C6-N1	-9.28	116.36	121.00
80	6	1514	U	N3-C2-O2	-9.28	115.71	122.20
85	5	1718	G	C5-C6-N1	-9.28	106.86	111.50
85	5	3361	G	C5-C6-N1	-9.28	106.86	111.50
85	5	2189	U	N1-C2-O2	-9.28	116.31	122.80
40	13	36	ASP	CB-CG-OD1	-9.28	109.95	118.30
36	1	787	G	C6-N1-C2	-9.27	119.54	125.10
37	3	73	C	N1-C2-O2	9.27	124.47	118.90
36	1	642	U	N3-C4-C5	9.27	120.16	114.60
36	1	647	A	O5'-P-OP1	9.27	121.83	110.70
36	1	675	C	N1-C2-N3	9.27	125.69	119.20
36	1	2390	A	N1-C6-N6	-9.27	113.04	118.60
36	1	2643	A	C4-C5-N7	9.27	115.34	110.70
80	6	1481	C	C6-N1-C2	-9.27	116.59	120.30
85	5	576	C	O5'-P-OP2	-9.27	97.35	105.70
36	1	1367	G	C4-C5-N7	9.27	114.51	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2836	C	C5-C4-N4	9.27	126.69	120.20
80	6	1150	G	N9-C4-C5	-9.27	101.69	105.40
85	5	782	U	N3-C4-O4	9.27	125.89	119.40
85	5	2256	A	C4-C5-C6	-9.27	112.36	117.00
85	5	3388	C	N1-C2-N3	9.27	125.69	119.20
37	7	19	C	O5'-P-OP2	-9.27	97.36	105.70
1	2	808	U	C5-C6-N1	9.27	127.33	122.70
36	1	100	A	C2-N3-C4	-9.27	105.97	110.60
36	1	396	A	C5-C6-N1	9.27	122.33	117.70
36	1	1117	G	C6-N1-C2	-9.27	119.54	125.10
36	1	1349	G	N3-C2-N2	-9.27	113.41	119.90
85	5	116	A	O5'-P-OP1	-9.27	97.36	105.70
85	5	991	G	N7-C8-N9	9.27	117.73	113.10
85	5	1113	G	C4-C5-N7	-9.27	107.09	110.80
85	5	2871	G	C5-C6-O6	9.27	134.16	128.60
37	3	86	U	N3-C4-C5	9.27	120.16	114.60
1	2	1190	C	C4-C5-C6	9.27	122.03	117.40
36	1	971	G	C4-C5-N7	9.27	114.51	110.80
36	1	1874	A	O5'-P-OP1	-9.27	97.36	105.70
36	1	2303	A	OP1-P-OP2	-9.27	105.70	119.60
80	6	1315	U	N1-C2-N3	9.27	120.46	114.90
85	5	438	A	C6-N1-C2	9.27	124.16	118.60
85	5	1149	G	N9-C4-C5	9.27	109.11	105.40
85	5	2157	G	C6-N1-C2	-9.27	119.54	125.10
37	7	62	U	O5'-P-OP2	-9.27	97.36	105.70
36	1	217	U	OP2-P-O3'	-9.26	84.82	105.20
36	1	395	A	N7-C8-N9	9.26	118.43	113.80
85	5	2825	C	C5-C4-N4	-9.26	113.72	120.20
37	7	72	A	C8-N9-C4	9.26	109.51	105.80
36	1	557	A	C5-C6-N6	9.26	131.11	123.70
36	1	964	G	OP1-P-OP2	-9.26	105.71	119.60
36	1	2808	A	C6-C5-N7	-9.26	125.82	132.30
85	5	1841	A	C5-N7-C8	-9.26	99.27	103.90
91	P	74	C	N1-C2-O2	-9.26	113.34	118.90
36	1	2169	G	C5-C6-O6	9.26	134.16	128.60
36	1	2613	U	C4-C5-C6	9.26	125.26	119.70
85	5	1521	G	N1-C6-O6	-9.26	114.34	119.90
1	2	569	C	C5-C6-N1	-9.26	116.37	121.00
36	1	378	A	O5'-P-OP2	-9.26	97.37	105.70
36	1	392	G	N1-C2-N3	-9.26	118.35	123.90
36	1	1207	G	N9-C4-C5	-9.26	101.70	105.40
36	1	1476	G	C8-N9-C4	9.26	110.10	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2651	G	N1-C2-N3	9.26	129.46	123.90
36	1	3101	G	C6-C5-N7	9.26	135.95	130.40
85	5	404	G	N3-C2-N2	-9.26	113.42	119.90
80	6	451	A	N1-C6-N6	9.26	124.15	118.60
80	6	1000	C	C2-N1-C1'	9.26	128.98	118.80
85	5	298	U	O5'-P-OP2	-9.26	97.37	105.70
85	5	499	G	N1-C6-O6	9.26	125.45	119.90
85	5	1183	C	OP2-P-O3'	9.26	125.56	105.20
85	5	1376	C	N3-C2-O2	-9.26	115.42	121.90
85	5	1925	U	C5-C6-N1	9.26	127.33	122.70
36	1	359	U	N3-C2-O2	-9.25	115.72	122.20
36	1	831	G	C4-C5-N7	-9.25	107.10	110.80
36	1	2534	G	C8-N9-C4	-9.25	102.70	106.40
80	6	22	A	C2-N3-C4	9.25	115.23	110.60
85	5	3230	G	N1-C2-N3	9.25	129.45	123.90
80	6	1529	C	C5-C6-N1	9.25	125.63	121.00
85	5	2377	G	C8-N9-C4	9.25	110.10	106.40
85	5	2794	G	C6-N1-C2	-9.25	119.55	125.10
91	p	74	C	N1-C2-O2	-9.25	113.35	118.90
36	1	498	A	N9-C4-C5	9.25	109.50	105.80
36	1	627	U	N3-C2-O2	9.25	128.68	122.20
36	1	1030	A	C8-N9-C4	9.25	109.50	105.80
36	1	1429	G	N7-C8-N9	-9.25	108.47	113.10
36	1	1536	G	N1-C2-N3	9.25	129.45	123.90
36	1	2778	G	C5-N7-C8	-9.25	99.67	104.30
36	1	2943	G	O5'-P-OP2	-9.25	97.38	105.70
36	1	3349	C	C5-C6-N1	9.25	125.63	121.00
80	6	315	A	C5-C6-N1	9.25	122.33	117.70
85	5	651	G	C6-C5-N7	-9.25	124.85	130.40
85	5	3302	U	N1-C2-O2	-9.25	116.32	122.80
85	5	1450	G	N1-C2-N2	9.25	124.52	116.20
85	5	2379	U	N1-C2-O2	-9.25	116.33	122.80
1	2	996	A	N1-C6-N6	-9.25	113.05	118.60
36	1	649	A	C2-N3-C4	-9.25	105.98	110.60
36	1	1822	C	N1-C2-N3	9.25	125.67	119.20
80	6	1131	A	N9-C4-C5	9.25	109.50	105.80
80	6	1741	U	C5-C6-N1	9.25	127.32	122.70
85	5	1458	U	C5-C6-N1	9.25	127.32	122.70
85	5	2157	G	C5-C6-O6	-9.25	123.05	128.60
80	6	1145	U	C6-N1-C2	-9.25	115.45	121.00
85	5	599	C	C5-C4-N4	-9.25	113.73	120.20
85	5	1874	A	C2-N3-C4	-9.25	105.98	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	63	G	O5'-P-OP2	-9.25	97.38	105.70
36	1	1859	A	N1-C2-N3	9.24	133.92	129.30
36	1	2413	A	C5-C6-N1	9.24	122.32	117.70
80	6	1742	U	N3-C4-C5	-9.24	109.05	114.60
38	8	104	A	N1-C6-N6	-9.24	113.05	118.60
36	1	901	G	OP1-P-OP2	-9.24	105.74	119.60
85	5	984	G	C4-C5-C6	9.24	124.35	118.80
38	8	90	U	N3-C2-O2	9.24	128.67	122.20
80	6	431	C	N3-C4-N4	-9.24	111.53	118.00
85	5	418	A	C5-C6-N6	-9.24	116.31	123.70
85	5	668	G	C4-C5-N7	-9.24	107.10	110.80
36	1	2160	G	C5-N7-C8	9.24	108.92	104.30
36	1	2837	A	C4-C5-C6	9.24	121.62	117.00
36	1	3265	C	N1-C2-O2	-9.24	113.36	118.90
80	6	425	A	C4-C5-C6	-9.24	112.38	117.00
1	2	461	G	N1-C6-O6	9.24	125.44	119.90
36	1	137	G	O5'-P-OP1	-9.24	97.38	105.70
36	1	2399	A	C2-N3-C4	9.24	115.22	110.60
85	5	1115	G	C4-N9-C1'	9.24	138.51	126.50
36	1	200	C	N1-C2-O2	-9.24	113.36	118.90
36	1	1429	G	C4-C5-N7	-9.24	107.10	110.80
85	5	48	A	C5-C6-N1	9.24	122.32	117.70
85	5	326	U	N3-C4-O4	9.24	125.87	119.40
85	5	3051	U	C4-C5-C6	-9.24	114.16	119.70
85	5	3350	C	N3-C2-O2	9.24	128.37	121.90
1	2	1152	G	C5-C6-N1	9.24	116.12	111.50
1	2	1638	A	N1-C2-N3	9.24	133.92	129.30
36	1	338	A	C2-N3-C4	-9.24	105.98	110.60
36	1	1044	U	O5'-P-OP1	9.24	121.78	110.70
80	6	610	G	C5-C6-O6	-9.24	123.06	128.60
85	5	311	C	N3-C4-C5	9.24	125.59	121.90
85	5	336	A	N1-C2-N3	-9.24	124.68	129.30
85	5	1321	G	N1-C2-N3	9.24	129.44	123.90
85	5	2507	C	C2-N3-C4	9.24	124.52	119.90
85	5	2968	G	C5-C6-O6	9.24	134.14	128.60
1	2	565	C	N1-C2-O2	9.23	124.44	118.90
1	2	594	A	C2-N3-C4	9.23	115.22	110.60
36	1	1539	A	O5'-P-OP2	-9.23	97.39	105.70
36	1	2419	A	C5-C6-N1	-9.23	113.08	117.70
36	1	1105	A	C5-C6-N1	-9.23	113.08	117.70
37	3	5	G	C6-C5-N7	9.23	135.94	130.40
85	5	1101	G	C8-N9-C4	9.23	110.09	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1388	U	N3-C2-O2	9.23	128.66	122.20
85	5	3088	G	N1-C2-N3	9.23	129.44	123.90
1	2	945	C	C6-N1-C2	-9.23	116.61	120.30
36	1	1351	U	C6-N1-C2	-9.23	115.46	121.00
36	1	1612	A	C8-N9-C4	-9.23	102.11	105.80
36	1	195	U	N3-C4-C5	9.23	120.14	114.60
36	1	633	C	C6-N1-C2	9.23	123.99	120.30
36	1	1629	U	N1-C2-N3	9.23	120.44	114.90
36	1	2385	G	N1-C2-N2	9.23	124.51	116.20
36	1	2524	A	O5'-P-OP2	-9.23	97.39	105.70
36	1	2928	C	C5-C6-N1	-9.23	116.39	121.00
38	4	83	C	N1-C2-O2	-9.23	113.36	118.90
80	6	528	U	C5-C6-N1	-9.23	118.08	122.70
85	5	767	U	N3-C4-O4	-9.23	112.94	119.40
85	5	1292	C	C6-N1-C2	9.23	123.99	120.30
85	5	1054	A	C5-C6-N1	-9.23	113.08	117.70
85	5	1345	G	OP1-P-OP2	-9.23	105.75	119.60
85	5	1460	A	O5'-P-OP2	-9.23	97.39	105.70
85	5	1881	A	C4-C5-C6	9.23	121.61	117.00
85	5	2247	G	O5'-P-OP1	9.23	121.78	110.70
85	5	2709	C	O5'-P-OP2	-9.23	97.39	105.70
64	n8	42	ARG	NE-CZ-NH2	-9.23	115.68	120.30
36	1	331	G	C8-N9-C4	-9.23	102.71	106.40
36	1	147	U	O5'-P-OP1	-9.23	97.40	105.70
36	1	339	C	O5'-P-OP1	-9.23	97.39	105.70
36	1	2125	A	C5-C6-N6	-9.23	116.32	123.70
80	6	1774	G	N1-C6-O6	-9.23	114.36	119.90
36	1	286	U	N1-C2-N3	9.23	120.44	114.90
36	1	355	A	O5'-P-OP1	-9.23	97.40	105.70
36	1	2742	C	N3-C2-O2	9.23	128.36	121.90
37	3	20	A	N7-C8-N9	9.23	118.41	113.80
38	4	123	G	C4-C5-N7	9.23	114.49	110.80
80	6	1150	G	C5-C6-O6	-9.23	123.06	128.60
85	5	1404	G	N7-C8-N9	9.23	117.71	113.10
85	5	1426	C	C6-N1-C2	9.23	123.99	120.30
85	5	1551	C	C4-C5-C6	9.23	122.01	117.40
85	5	3206	C	C6-N1-C2	-9.23	116.61	120.30
1	2	433	C	N3-C4-N4	9.22	124.46	118.00
36	1	2797	C	C5-C6-N1	-9.22	116.39	121.00
37	7	4	U	C5-C6-N1	-9.22	118.09	122.70
36	1	11	A	C2-N3-C4	-9.22	105.99	110.60
36	1	21	G	N1-C2-N2	-9.22	107.90	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1104	G	O5'-P-OP2	9.22	121.77	110.70
36	1	2315	G	N3-C4-C5	-9.22	123.99	128.60
36	1	711	A	C4-C5-N7	-9.22	106.09	110.70
36	1	2953	U	N1-C2-O2	-9.22	116.34	122.80
85	5	571	U	C2-N3-C4	-9.22	121.47	127.00
85	5	2290	C	N3-C4-C5	-9.22	118.21	121.90
85	5	2780	A	C2-N3-C4	-9.22	105.99	110.60
36	1	2888	U	C5-C6-N1	-9.22	118.09	122.70
36	1	3285	C	C4-C5-C6	-9.22	112.79	117.40
80	6	1122	G	C8-N9-C4	9.22	110.09	106.40
85	5	1536	G	C5-C6-O6	-9.22	123.07	128.60
85	5	1709	C	C5-C6-N1	-9.22	116.39	121.00
85	5	2846	U	C6-N1-C2	-9.22	115.47	121.00
36	1	1224	C	C6-N1-C2	-9.22	116.61	120.30
36	1	1905	G	N1-C2-N3	9.22	129.43	123.90
36	1	2295	A	O5'-P-OP2	-9.22	97.40	105.70
36	1	2326	A	N3-C4-C5	9.22	133.25	126.80
36	1	2724	U	O5'-P-OP1	9.22	121.76	110.70
80	6	897	C	N1-C2-N3	9.22	125.65	119.20
80	6	1286	U	C5-C6-N1	-9.22	118.09	122.70
85	5	755	A	C5-N7-C8	-9.22	99.29	103.90
85	5	812	G	C2-N3-C4	-9.22	107.29	111.90
85	5	1439	U	C6-N1-C2	9.22	126.53	121.00
85	5	2402	A	N1-C6-N6	-9.22	113.07	118.60
85	5	926	A	N1-C2-N3	9.22	133.91	129.30
85	5	1929	G	N1-C2-N3	9.22	129.43	123.90
85	5	2137	U	C5-C6-N1	-9.22	118.09	122.70
85	5	2973	G	N3-C2-N2	-9.22	113.45	119.90
85	5	3214	U	N3-C4-C5	9.22	120.13	114.60
1	2	88	U	N1-C2-N3	9.22	120.43	114.90
36	1	2778	G	C2-N3-C4	-9.22	107.29	111.90
36	1	1195	A	C6-N1-C2	-9.21	113.07	118.60
36	1	2772	C	N1-C2-O2	9.21	124.43	118.90
36	1	3379	C	N1-C2-O2	-9.21	113.37	118.90
80	6	703	G	N1-C6-O6	9.21	125.43	119.90
85	5	352	A	C8-N9-C4	-9.22	102.11	105.80
85	5	103	G	O5'-P-OP1	-9.21	97.41	105.70
85	5	2278	C	OP1-P-O3'	9.21	125.47	105.20
36	1	523	A	N7-C8-N9	-9.21	109.19	113.80
36	1	1135	A	N1-C2-N3	9.21	133.91	129.30
36	1	1403	C	C6-N1-C2	9.21	123.98	120.30
36	1	3207	U	N3-C4-O4	-9.21	112.95	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	52	A	C4-C5-N7	-9.21	106.09	110.70
80	6	1354	G	C8-N9-C4	-9.21	102.72	106.40
36	1	859	G	N7-C8-N9	9.21	117.70	113.10
36	1	1371	G	C8-N9-C1'	-9.21	115.03	127.00
36	1	1521	G	C2-N3-C4	-9.21	107.29	111.90
36	1	2232	A	C2-N3-C4	-9.21	106.00	110.60
36	1	2314	U	N1-C2-O2	9.21	129.25	122.80
36	1	2979	U	C5-C6-N1	-9.21	118.09	122.70
38	4	80	A	N1-C6-N6	-9.21	113.07	118.60
85	5	2952	G	C2-N3-C4	-9.21	107.29	111.90
85	5	3266	G	C4-C5-N7	-9.21	107.11	110.80
36	1	2808	A	O4'-C1'-N9	-9.21	100.83	108.20
80	6	1550	A	N1-C6-N6	9.21	124.13	118.60
85	5	1053	A	C5-N7-C8	-9.21	99.30	103.90
85	5	1124	U	N1-C2-N3	9.21	120.43	114.90
36	1	1656	A	C4-C5-N7	-9.21	106.09	110.70
36	1	1675	G	N1-C2-N3	-9.21	118.37	123.90
80	6	403	G	C5-N7-C8	-9.21	99.70	104.30
80	6	561	G	O5'-P-OP2	-9.21	97.41	105.70
85	5	1086	C	N3-C4-C5	-9.21	118.22	121.90
36	1	44	U	N3-C2-O2	-9.21	115.75	122.20
36	1	2377	G	C8-N9-C4	-9.21	102.72	106.40
36	1	2387	A	N3-C4-C5	9.21	133.25	126.80
36	1	2636	A	C5-N7-C8	-9.21	99.30	103.90
36	1	2955	U	C5-C6-N1	-9.21	118.10	122.70
85	5	47	C	N3-C4-N4	9.21	124.44	118.00
85	5	875	G	C8-N9-C4	-9.21	102.72	106.40
85	5	1306	G	OP1-P-O3'	9.21	125.46	105.20
85	5	2403	G	N1-C2-N2	9.21	124.49	116.20
85	5	2641	U	C2-N3-C4	9.21	132.53	127.00
85	5	2861	U	C4-C5-C6	9.21	125.22	119.70
85	5	3336	A	N1-C2-N3	9.21	133.90	129.30
36	1	661	G	N1-C2-N3	9.21	129.42	123.90
36	1	852	U	N3-C4-C5	-9.21	109.08	114.60
36	1	966	U	C6-N1-C2	-9.21	115.48	121.00
80	6	1627	U	OP1-P-OP2	-9.21	105.79	119.60
36	1	2647	A	C6-C5-N7	-9.20	125.86	132.30
36	1	3274	A	N1-C2-N3	9.21	133.90	129.30
85	5	438	A	C5-C6-N1	-9.21	113.10	117.70
85	5	835	G	C6-N1-C2	-9.20	119.58	125.10
85	5	1127	G	N1-C6-O6	-9.20	114.38	119.90
85	5	2126	A	C8-N9-C4	9.21	109.48	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2964	G	N1-C2-N3	9.20	129.42	123.90
37	3	101	G	C5-C6-N1	-9.20	106.90	111.50
38	4	67	U	N1-C2-N3	9.20	120.42	114.90
54	M8	41	ASP	CB-CG-OD1	9.20	126.58	118.30
80	6	1415	U	C5-C6-N1	9.20	127.30	122.70
85	5	792	G	C8-N9-C4	9.20	110.08	106.40
1	2	407	A	C4-C5-N7	-9.20	106.10	110.70
1	2	836	G	C4-C5-N7	9.20	114.48	110.80
36	1	728	G	O5'-P-OP2	-9.20	97.42	105.70
36	1	802	C	O5'-P-OP2	9.20	121.74	110.70
36	1	1434	G	C5-C6-O6	-9.20	123.08	128.60
36	1	3284	G	C8-N9-C4	-9.20	102.72	106.40
80	6	1789	G	N3-C4-C5	-9.20	124.00	128.60
85	5	788	C	N1-C2-N3	9.20	125.64	119.20
85	5	1177	G	OP1-P-OP2	-9.20	105.80	119.60
85	5	2751	G	C6-C5-N7	-9.20	124.88	130.40
85	5	3177	G	N3-C4-C5	9.20	133.20	128.60
85	5	3309	G	C4-N9-C1'	9.20	138.46	126.50
1	2	1572	C	N3-C4-N4	-9.20	111.56	118.00
85	5	775	A	N7-C8-N9	9.20	118.40	113.80
85	5	2315	G	C8-N9-C4	-9.20	102.72	106.40
85	5	3124	G	N7-C8-N9	9.20	117.70	113.10
1	2	1459	C	C6-N1-C2	9.20	123.98	120.30
36	1	189	G	N1-C2-N3	9.19	129.42	123.90
36	1	890	C	O5'-P-OP1	9.20	121.73	110.70
36	1	983	A	C8-N9-C4	9.20	109.48	105.80
85	5	291	C	N1-C2-N3	9.20	125.64	119.20
85	5	561	C	C6-N1-C2	-9.19	116.62	120.30
85	5	1198	C	O5'-P-OP2	9.20	121.73	110.70
85	5	1673	G	C8-N9-C4	-9.20	102.72	106.40
85	5	1924	U	N3-C2-O2	-9.19	115.76	122.20
85	5	3307	A	C2-N3-C4	-9.20	106.00	110.60
85	5	3385	U	OP1-P-OP2	9.19	133.39	119.60
1	2	1100	U	N3-C2-O2	9.19	128.63	122.20
1	2	1716	C	N3-C4-C5	-9.19	118.22	121.90
36	1	260	C	N3-C2-O2	9.19	128.33	121.90
36	1	440	A	C2-N3-C4	9.19	115.19	110.60
36	1	1335	C	O5'-P-OP2	-9.19	97.43	105.70
36	1	2380	U	C5-C6-N1	9.19	127.30	122.70
36	1	2824	G	N1-C6-O6	9.19	125.42	119.90
85	5	589	A	N1-C6-N6	9.19	124.11	118.60
85	5	718	G	C6-N1-C2	-9.19	119.58	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1303	A	C4-C5-N7	9.19	115.30	110.70
85	5	2611	U	C4-C5-C6	9.19	125.22	119.70
38	8	17	A	C5-N7-C8	-9.19	99.30	103.90
36	1	345	G	C5-N7-C8	9.19	108.89	104.30
36	1	1177	G	O5'-P-OP1	-9.19	97.43	105.70
36	1	2283	G	C5-N7-C8	-9.19	99.70	104.30
85	5	363	G	C5-C6-N1	9.19	116.09	111.50
85	5	670	C	N3-C2-O2	9.19	128.33	121.90
85	5	953	G	C4-C5-N7	9.19	114.48	110.80
80	6	984	G	N3-C4-N9	-9.19	120.49	126.00
85	5	988	U	N1-C2-N3	9.19	120.41	114.90
85	5	1281	G	C8-N9-C1'	9.19	138.95	127.00
85	5	1488	G	N3-C2-N2	-9.19	113.47	119.90
85	5	1541	G	O5'-P-OP2	-9.19	97.43	105.70
85	5	1897	G	C4-C5-C6	9.19	124.31	118.80
85	5	2405	C	C4-C5-C6	9.19	122.00	117.40
85	5	2634	U	C2-N3-C4	-9.19	121.49	127.00
85	5	2988	C	C5-C6-N1	-9.19	116.41	121.00
85	5	530	G	C5-C6-N1	9.19	116.09	111.50
85	5	1846	C	O5'-P-OP2	-9.19	97.43	105.70
85	5	2889	C	O5'-P-OP2	9.19	121.72	110.70
1	2	1500	U	N3-C4-C5	-9.19	109.09	114.60
36	1	1838	G	OP1-P-OP2	-9.19	105.82	119.60
36	1	2657	A	C5-C6-N6	9.19	131.05	123.70
80	6	1455	G	C2-N3-C4	-9.19	107.31	111.90
85	5	1158	A	O5'-P-OP2	-9.19	97.43	105.70
85	5	1893	A	OP2-P-O3'	9.19	125.41	105.20
36	1	96	G	N7-C8-N9	9.18	117.69	113.10
36	1	388	G	C6-C5-N7	-9.18	124.89	130.40
36	1	781	G	N1-C2-N2	9.18	124.47	116.20
36	1	2364	G	N9-C4-C5	9.18	109.07	105.40
36	1	2650	U	OP1-P-OP2	9.18	133.38	119.60
85	5	144	A	O5'-P-OP1	9.18	121.72	110.70
85	5	172	G	N1-C6-O6	-9.18	114.39	119.90
36	1	2372	A	C4-C5-C6	9.18	121.59	117.00
80	6	1096	C	OP1-P-OP2	-9.18	105.83	119.60
80	6	1306	C	C6-N1-C2	-9.18	116.63	120.30
85	5	2208	A	C5-N7-C8	9.18	108.49	103.90
85	5	2425	G	C6-N1-C2	9.18	130.61	125.10
85	5	645	A	N3-C4-C5	-9.18	120.37	126.80
85	5	1413	G	N3-C4-C5	9.18	133.19	128.60
36	1	231	G	C5-C6-N1	9.18	116.09	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	658	G	N3-C2-N2	-9.18	113.47	119.90
36	1	2307	G	N1-C2-N3	9.18	129.41	123.90
36	1	2349	U	C2-N3-C4	-9.18	121.49	127.00
36	1	2724	U	N3-C4-O4	9.18	125.83	119.40
36	1	2775	U	C5-C6-N1	-9.18	118.11	122.70
37	3	69	C	C6-N1-C2	-9.18	116.63	120.30
85	5	1153	A	N1-C6-N6	-9.18	113.09	118.60
85	5	2832	C	N3-C4-C5	-9.18	118.23	121.90
36	1	3054	U	C5-C4-O4	9.18	131.41	125.90
38	4	43	A	C4-C5-N7	9.18	115.29	110.70
80	6	364	G	N1-C6-O6	9.18	125.41	119.90
80	6	423	G	N3-C4-C5	9.18	133.19	128.60
80	6	1148	C	N1-C2-N3	9.18	125.62	119.20
85	5	307	A	C2-N3-C4	-9.18	106.01	110.60
85	5	3294	A	N3-C4-C5	-9.18	120.37	126.80
85	5	3335	A	C4-C5-N7	9.18	115.29	110.70
85	5	974	G	C6-N1-C2	-9.18	119.59	125.10
1	2	372	G	C8-N9-C4	-9.18	102.73	106.40
1	2	1752	U	O5'-P-OP2	-9.18	97.44	105.70
36	1	800	G	N3-C4-C5	9.18	133.19	128.60
36	1	856	G	N3-C4-C5	-9.18	124.01	128.60
37	3	70	U	O5'-P-OP2	-9.18	97.44	105.70
36	1	989	A	N3-C4-C5	9.18	133.22	126.80
36	1	2530	G	C2-N3-C4	9.18	116.49	111.90
80	6	636	A	C8-N9-C4	9.18	109.47	105.80
85	5	282	G	N7-C8-N9	9.18	117.69	113.10
85	5	1660	C	C5-C6-N1	9.18	125.59	121.00
85	5	3176	G	N1-C2-N3	9.18	129.41	123.90
36	1	242	C	C5-C6-N1	9.17	125.59	121.00
80	6	1722	A	N7-C8-N9	-9.17	109.21	113.80
85	5	1160	C	N3-C4-N4	-9.17	111.58	118.00
85	5	1412	G	OP1-P-OP2	-9.17	105.84	119.60
85	5	1674	G	N1-C6-O6	-9.17	114.40	119.90
36	1	937	G	C8-N9-C4	-9.17	102.73	106.40
36	1	1194	G	O5'-P-OP2	-9.17	97.45	105.70
36	1	1411	C	C6-N1-C2	-9.17	116.63	120.30
36	1	3342	A	N1-C6-N6	9.17	124.10	118.60
38	4	125	U	O5'-P-OP2	9.17	121.71	110.70
38	4	130	C	N3-C4-N4	9.17	124.42	118.00
80	6	1601	G	C5-C6-O6	-9.17	123.10	128.60
85	5	178	U	N3-C4-O4	9.17	125.82	119.40
85	5	785	G	OP1-P-OP2	-9.17	105.84	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	805	G	N1-C6-O6	-9.17	114.40	119.90
85	5	1133	A	OP2-P-O3'	9.17	125.37	105.20
85	5	3214	U	N3-C2-O2	-9.17	115.78	122.20
1	2	594	A	C5-N7-C8	9.17	108.48	103.90
36	1	422	A	N1-C2-N3	9.17	133.88	129.30
36	1	1753	G	C6-C5-N7	-9.17	124.90	130.40
36	1	2315	G	N9-C4-C5	9.17	109.07	105.40
85	5	1370	G	C5-C6-N1	9.17	116.08	111.50
85	5	2652	U	C4-C5-C6	-9.17	114.20	119.70
38	8	125	U	N1-C2-O2	9.17	129.22	122.80
85	5	2617	U	C4-C5-C6	9.16	125.20	119.70
85	5	3208	G	N1-C6-O6	-9.16	114.40	119.90
85	5	3305	A	C5-C6-N6	9.16	131.03	123.70
36	1	1429	G	C5-N7-C8	9.16	108.88	104.30
36	1	3266	G	N1-C6-O6	-9.16	114.40	119.90
80	6	1011	G	C5-C6-O6	-9.16	123.10	128.60
80	6	1147	A	N9-C4-C5	9.16	109.47	105.80
85	5	774	G	C8-N9-C1'	-9.16	115.08	127.00
85	5	372	A	O5'-P-OP1	-9.16	97.45	105.70
85	5	3098	G	N1-C6-O6	9.16	125.40	119.90
1	2	291	G	C5-C6-O6	-9.16	123.10	128.60
1	2	334	G	N1-C6-O6	9.16	125.40	119.90
36	1	3361	G	N3-C4-C5	-9.16	124.02	128.60
80	6	448	C	N1-C2-N3	9.16	125.61	119.20
80	6	635	A	N1-C2-N3	9.16	133.88	129.30
85	5	873	C	C2-N1-C1'	9.16	128.88	118.80
85	5	3065	G	C5-C6-N1	-9.16	106.92	111.50
38	8	96	A	C5-C6-N6	-9.16	116.37	123.70
36	1	211	A	C5-N7-C8	-9.16	99.32	103.90
36	1	771	A	C5-N7-C8	-9.16	99.32	103.90
36	1	967	A	N3-C4-N9	-9.16	120.07	127.40
36	1	890	C	O5'-P-OP2	-9.16	97.46	105.70
36	1	1076	C	C6-N1-C2	9.16	123.96	120.30
85	5	97	U	C6-N1-C2	9.16	126.50	121.00
85	5	1142	G	N1-C6-O6	9.16	125.39	119.90
85	5	2617	U	O5'-P-OP1	9.16	121.69	110.70
85	5	2703	A	O5'-P-OP2	-9.16	97.46	105.70
36	1	3139	A	C5-C6-N1	9.16	122.28	117.70
85	5	970	A	C6-N1-C2	-9.16	113.11	118.60
85	5	1323	G	N9-C4-C5	9.16	109.06	105.40
85	5	2350	C	C2-N3-C4	-9.16	115.32	119.90
36	1	590	G	C4-C5-N7	9.15	114.46	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	677	A	O5'-P-OP1	-9.15	97.46	105.70
36	1	797	U	O5'-P-OP1	9.15	121.69	110.70
36	1	1902	G	C5-C6-O6	-9.15	123.11	128.60
80	6	1293	U	C6-N1-C1'	9.15	134.02	121.20
85	5	164	A	N1-C2-N3	-9.15	124.72	129.30
85	5	810	A	C8-N9-C4	-9.15	102.14	105.80
85	5	1851	G	C5-C6-N1	-9.15	106.92	111.50
85	5	2968	G	O4'-C1'-N9	-9.15	100.88	108.20
85	5	3312	U	C6-N1-C2	-9.15	115.51	121.00
36	1	635	G	N3-C4-C5	-9.15	124.03	128.60
36	1	1013	G	C6-C5-N7	-9.15	124.91	130.40
36	1	1198	C	N3-C4-C5	-9.15	118.24	121.90
36	1	1838	G	C5-C6-O6	-9.15	123.11	128.60
36	1	1851	G	C5-C6-N1	-9.15	106.92	111.50
36	1	3053	G	OP1-P-OP2	-9.15	105.88	119.60
85	5	1095	U	N3-C4-C5	-9.15	109.11	114.60
85	5	2162	U	C5-C6-N1	-9.15	118.12	122.70
85	5	2863	G	N7-C8-N9	9.15	117.67	113.10
36	1	943	U	N1-C2-N3	9.15	120.39	114.90
38	4	38	U	C6-N1-C2	-9.15	115.51	121.00
36	1	265	A	C5-C6-N1	-9.15	113.13	117.70
36	1	1175	C	C5-C4-N4	-9.15	113.80	120.20
36	1	2326	A	C2-N3-C4	-9.15	106.03	110.60
36	1	2817	A	C2-N3-C4	9.15	115.17	110.60
85	5	978	G	N1-C2-N2	-9.15	107.97	116.20
85	5	2528	G	N1-C6-O6	9.15	125.39	119.90
38	8	109	A	N7-C8-N9	9.15	118.37	113.80
51	M5	24	ARG	NE-CZ-NH1	-9.15	115.73	120.30
80	6	377	G	C2-N3-C4	-9.15	107.33	111.90
80	6	1497	U	N3-C2-O2	9.15	128.60	122.20
80	6	1572	G	C8-N9-C4	-9.15	102.74	106.40
85	5	358	G	C4-C5-N7	9.15	114.46	110.80
85	5	2284	C	O5'-P-OP2	9.15	121.67	110.70
1	2	1296	A	C4-C5-N7	9.14	115.27	110.70
36	1	898	U	N3-C4-O4	9.14	125.80	119.40
36	1	3085	G	N9-C4-C5	9.14	109.06	105.40
80	6	1530	C	C6-N1-C2	-9.14	116.64	120.30
85	5	1490	A	C8-N9-C4	-9.14	102.14	105.80
36	1	1461	A	C5-C6-N6	-9.14	116.39	123.70
36	1	3308	C	N3-C2-O2	9.14	128.30	121.90
37	3	115	G	C4-C5-N7	9.14	114.46	110.80
80	6	331	A	C2-N3-C4	-9.14	106.03	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1171	A	C5-N7-C8	-9.14	99.33	103.90
80	6	1449	U	C4-C5-C6	9.14	125.19	119.70
85	5	2284	C	C2-N3-C4	9.14	124.47	119.90
85	5	1827	C	N3-C4-C5	9.14	125.56	121.90
85	5	3117	C	C2-N3-C4	-9.14	115.33	119.90
85	5	3204	C	C6-N1-C2	9.14	123.96	120.30
1	2	334	G	C4-C5-N7	9.14	114.46	110.80
36	1	916	G	C5-C6-O6	9.14	134.09	128.60
36	1	2631	U	N1-C2-N3	9.14	120.39	114.90
85	5	2569	A	N1-C6-N6	9.14	124.08	118.60
80	6	1455	G	C5-C6-N1	-9.14	106.93	111.50
85	5	731	U	C6-N1-C2	-9.14	115.52	121.00
85	5	1371	G	O5'-P-OP2	-9.14	97.47	105.70
85	5	1901	A	C5-C6-N6	9.14	131.01	123.70
85	5	3094	A	C2-N3-C4	-9.14	106.03	110.60
85	5	3218	A	N1-C6-N6	9.14	124.08	118.60
85	5	3294	A	N9-C4-C5	9.14	109.46	105.80
36	1	100	A	N1-C6-N6	-9.14	113.12	118.60
36	1	889	U	O5'-P-OP1	9.14	121.67	110.70
36	1	1535	A	OP1-P-OP2	-9.14	105.89	119.60
36	1	1839	A	OP1-P-OP2	-9.14	105.89	119.60
80	6	108	A	C6-N1-C2	-9.14	113.12	118.60
85	5	636	C	C2-N3-C4	-9.14	115.33	119.90
36	1	2733	A	N9-C4-C5	9.14	109.45	105.80
85	5	2754	G	N9-C4-C5	9.14	109.06	105.40
85	5	2829	U	O5'-P-OP2	-9.14	97.48	105.70
85	5	2870	C	C2-N1-C1'	-9.14	108.75	118.80
85	5	3012	A	C2-N3-C4	-9.14	106.03	110.60
1	2	1249	U	C5-C6-N1	9.14	127.27	122.70
36	1	2335	G	N1-C6-O6	-9.14	114.42	119.90
36	1	3361	G	C5-C6-N1	9.14	116.07	111.50
36	1	2560	C	N3-C2-O2	-9.13	115.51	121.90
36	1	2897	A	C6-N1-C2	-9.13	113.12	118.60
37	3	14	U	C6-N1-C2	9.13	126.48	121.00
80	6	256	A	N1-C6-N6	9.13	124.08	118.60
80	6	640	U	O5'-P-OP1	-9.14	97.48	105.70
80	6	1015	U	C6-N1-C2	-9.13	115.52	121.00
85	5	50	U	N3-C2-O2	9.13	128.59	122.20
85	5	383	G	N3-C4-N9	-9.13	120.52	126.00
85	5	1890	U	C5-C6-N1	9.13	127.27	122.70
85	5	3235	C	C4-C5-C6	-9.13	112.83	117.40
36	1	1371	G	C5-C6-O6	9.13	134.08	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	88	A	N1-C2-N3	9.13	133.87	129.30
80	6	608	U	C5-C6-N1	-9.13	118.13	122.70
85	5	224	C	O5'-P-OP1	9.13	121.66	110.70
85	5	2418	G	C5-C6-N1	9.13	116.07	111.50
85	5	2874	G	N1-C2-N3	9.13	129.38	123.90
1	2	868	G	C2-N3-C4	-9.13	107.33	111.90
36	1	1710	C	N1-C2-O2	9.13	124.38	118.90
85	5	2726	C	N3-C4-C5	-9.13	118.25	121.90
36	1	2621	G	OP1-P-OP2	-9.13	105.90	119.60
36	1	3112	G	OP1-P-O3'	9.13	125.29	105.20
38	4	67	U	C2-N3-C4	-9.13	121.52	127.00
85	5	963	G	N3-C4-N9	9.13	131.48	126.00
85	5	1883	A	C5-C6-N6	-9.13	116.39	123.70
85	5	2799	A	N9-C4-C5	9.13	109.45	105.80
85	5	950	G	N7-C8-N9	-9.13	108.53	113.10
85	5	1137	C	C4-C5-C6	9.13	121.97	117.40
85	5	1191	U	N3-C2-O2	9.13	128.59	122.20
85	5	1887	A	C2-N3-C4	-9.13	106.03	110.60
85	5	2198	A	O5'-P-OP1	-9.13	97.48	105.70
36	1	1173	U	C4-C5-C6	9.13	125.18	119.70
36	1	2286	U	C2-N3-C4	-9.13	121.52	127.00
80	6	480	G	C4-C5-N7	-9.13	107.15	110.80
85	5	1743	G	C8-N9-C4	-9.13	102.75	106.40
85	5	2887	A	OP2-P-O3'	9.13	125.28	105.20
85	5	2938	G	N7-C8-N9	9.13	117.67	113.10
85	5	2941	A	N1-C6-N6	-9.13	113.12	118.60
36	1	725	G	C4-C5-N7	9.13	114.45	110.80
85	5	1660	C	C4-C5-C6	-9.13	112.84	117.40
85	5	1863	G	C5-C6-O6	9.13	134.08	128.60
85	5	2664	C	C4-C5-C6	-9.13	112.84	117.40
80	6	335	U	O5'-P-OP2	9.13	121.65	110.70
80	6	453	U	N3-C4-O4	9.13	125.79	119.40
85	5	32	U	O5'-P-OP1	9.13	121.65	110.70
36	1	91	G	N9-C4-C5	9.12	109.05	105.40
36	1	414	U	C2-N3-C4	-9.12	121.53	127.00
36	1	2736	A	N1-C2-N3	9.12	133.86	129.30
36	1	3133	C	N3-C4-N4	9.12	124.39	118.00
38	4	1	A	C4-C5-N7	9.12	115.26	110.70
80	6	570	A	C5-N7-C8	-9.12	99.34	103.90
85	5	2668	U	N3-C4-O4	9.12	125.79	119.40
1	2	374	U	C4-C5-C6	-9.12	114.23	119.70
1	2	1728	G	N3-C4-C5	-9.12	124.04	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2118	C	C2-N3-C4	-9.12	115.34	119.90
85	5	1007	U	O5'-P-OP2	-9.12	97.49	105.70
37	7	13	A	C6-N1-C2	-9.12	113.13	118.60
36	1	30	G	C5-C6-O6	9.12	134.07	128.60
36	1	70	A	C5-C6-N1	-9.12	113.14	117.70
36	1	595	G	N3-C2-N2	-9.12	113.51	119.90
85	5	1128	U	C6-N1-C2	9.12	126.47	121.00
1	2	1726	U	C2-N3-C4	9.12	132.47	127.00
36	1	122	A	N1-C6-N6	-9.12	113.13	118.60
36	1	903	U	O5'-P-OP1	9.12	121.64	110.70
36	1	1590	G	N1-C6-O6	-9.12	114.43	119.90
36	1	1791	C	C4-C5-C6	9.12	121.96	117.40
36	1	2173	U	N3-C4-C5	-9.12	109.13	114.60
80	6	450	U	C5-C6-N1	-9.12	118.14	122.70
36	1	1113	G	C8-N9-C4	-9.12	102.75	106.40
36	1	1429	G	N3-C4-C5	-9.12	124.04	128.60
36	1	2280	A	C6-N1-C2	-9.12	113.13	118.60
80	6	1017	U	C5-C6-N1	9.12	127.26	122.70
80	6	1199	G	N1-C6-O6	9.12	125.37	119.90
85	5	215	G	C2-N3-C4	-9.12	107.34	111.90
85	5	950	G	C6-N1-C2	-9.12	119.63	125.10
85	5	573	C	C5-C6-N1	-9.12	116.44	121.00
38	8	35	C	C4-C5-C6	-9.12	112.84	117.40
36	1	307	A	C5-C6-N6	9.12	130.99	123.70
36	1	1794	G	C4-C5-C6	9.12	124.27	118.80
36	1	3308	C	N3-C4-N4	9.12	124.38	118.00
36	1	1413	G	C6-C5-N7	-9.11	124.93	130.40
85	5	1078	U	C5-C6-N1	9.12	127.26	122.70
85	5	1475	A	N1-C6-N6	9.12	124.07	118.60
85	5	2559	U	C2-N3-C4	-9.12	121.53	127.00
38	8	10	A	C8-N9-C4	-9.11	102.16	105.80
80	6	103	A	C5-C6-N6	-9.11	116.41	123.70
36	1	639	G	C5-C6-N1	-9.11	106.94	111.50
36	1	665	A	C8-N9-C4	-9.11	102.16	105.80
36	1	749	C	C5-C4-N4	-9.11	113.82	120.20
36	1	2782	U	N1-C2-O2	-9.11	116.42	122.80
36	1	3377	G	C6-C5-N7	-9.11	124.93	130.40
80	6	1070	C	N1-C2-N3	9.11	125.58	119.20
85	5	810	A	C5-C6-N6	-9.11	116.41	123.70
85	5	1121	U	N1-C2-O2	-9.11	116.42	122.80
85	5	1500	G	N1-C2-N2	-9.11	108.00	116.20
85	5	3178	A	C4-C5-N7	-9.11	106.14	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	635	A	N7-C8-N9	9.11	118.36	113.80
36	1	289	A	O5'-P-OP2	9.11	121.63	110.70
36	1	1411	C	N3-C4-C5	-9.11	118.26	121.90
36	1	1759	C	C2-N3-C4	-9.11	115.34	119.90
36	1	3184	A	C4-C5-N7	9.11	115.25	110.70
37	3	80	G	C5-C6-O6	9.11	134.06	128.60
38	4	15	G	N1-C6-O6	-9.11	114.43	119.90
80	6	360	A	C5-C6-N1	9.11	122.25	117.70
80	6	429	G	C2-N3-C4	-9.11	107.34	111.90
38	4	102	U	N3-C2-O2	-9.11	115.82	122.20
80	6	368	U	N1-C2-N3	9.11	120.36	114.90
85	5	387	A	N7-C8-N9	9.11	118.36	113.80
80	6	1675	C	C6-N1-C2	-9.11	116.66	120.30
85	5	527	A	OP1-P-OP2	-9.11	105.94	119.60
85	5	998	A	N9-C4-C5	9.11	109.44	105.80
36	1	3266	G	C6-N1-C2	-9.11	119.64	125.10
36	1	1932	A	N1-C6-N6	-9.11	113.14	118.60
36	1	2623	G	C6-C5-N7	-9.11	124.94	130.40
36	1	3378	C	N3-C4-C5	-9.11	118.26	121.90
85	5	727	G	N9-C4-C5	-9.11	101.76	105.40
85	5	927	C	N3-C4-N4	9.11	124.38	118.00
85	5	1070	U	N1-C2-N3	9.11	120.36	114.90
85	5	1551	C	C2-N3-C4	-9.11	115.35	119.90
85	5	2871	G	C5-N7-C8	-9.11	99.75	104.30
36	1	700	C	N3-C4-N4	9.10	124.37	118.00
36	1	726	G	N1-C6-O6	-9.10	114.44	119.90
36	1	1297	C	N1-C2-O2	-9.10	113.44	118.90
36	1	1876	U	N3-C2-O2	-9.10	115.83	122.20
36	1	2709	C	N1-C2-O2	9.10	124.36	118.90
1	2	630	A	N9-C4-C5	-9.10	102.16	105.80
80	6	338	C	C5-C4-N4	-9.10	113.83	120.20
85	5	665	A	C6-N1-C2	-9.10	113.14	118.60
85	5	2407	C	N3-C2-O2	9.10	128.27	121.90
1	2	1097	G	C5-C6-O6	-9.10	123.14	128.60
80	6	55	A	N1-C6-N6	-9.10	113.14	118.60
80	6	1294	G	C8-N9-C1'	9.10	138.83	127.00
36	1	746	A	C6-N1-C2	-9.10	113.14	118.60
36	1	2895	G	N7-C8-N9	-9.10	108.55	113.10
36	1	2986	U	C5-C4-O4	9.10	131.36	125.90
85	5	30	G	C8-N9-C4	9.10	110.04	106.40
85	5	2526	C	O5'-P-OP2	-9.10	97.51	105.70
85	5	3312	U	N3-C2-O2	9.10	128.57	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	866	C	N3-C2-O2	-9.10	115.53	121.90
36	1	110	G	N1-C6-O6	9.10	125.36	119.90
36	1	548	G	N1-C6-O6	9.10	125.36	119.90
36	1	775	A	C2-N3-C4	-9.10	106.05	110.60
80	6	51	A	O5'-P-OP1	-9.10	97.51	105.70
36	1	685	G	C8-N9-C4	9.10	110.04	106.40
36	1	1003	A	O5'-P-OP2	9.10	121.61	110.70
36	1	1813	A	C4-C5-C6	9.10	121.55	117.00
36	1	1876	U	N3-C4-O4	9.10	125.77	119.40
80	6	1728	A	C2-N3-C4	-9.10	106.05	110.60
85	5	804	C	C6-N1-C2	9.10	123.94	120.30
85	5	870	G	N9-C4-C5	9.10	109.04	105.40
85	5	1387	G	OP1-P-OP2	9.10	133.24	119.60
85	5	1936	A	C5-N7-C8	-9.10	99.35	103.90
85	5	2994	A	N9-C4-C5	9.10	109.44	105.80
85	5	3141	A	C5-C6-N1	-9.10	113.15	117.70
85	5	3318	G	N1-C2-N3	9.10	129.36	123.90
36	1	365	A	C6-N1-C2	-9.09	113.14	118.60
36	1	906	A	C6-N1-C2	-9.09	113.14	118.60
36	1	1164	G	N1-C2-N2	-9.09	108.02	116.20
37	3	117	A	N1-C6-N6	9.09	124.06	118.60
80	6	799	A	C8-N9-C4	-9.09	102.16	105.80
85	5	403	C	N3-C4-N4	9.09	124.36	118.00
85	5	1880	U	OP1-P-O3'	-9.09	85.20	105.20
85	5	3095	U	C5-C4-O4	-9.09	120.44	125.90
36	1	683	U	N3-C4-O4	9.09	125.76	119.40
36	1	962	A	N1-C2-N3	9.09	133.84	129.30
36	1	1191	U	OP1-P-OP2	9.09	133.24	119.60
36	1	2305	G	C8-N9-C4	-9.09	102.76	106.40
37	3	53	U	C5-C6-N1	-9.09	118.16	122.70
80	6	805	U	C5-C6-N1	9.09	127.25	122.70
85	5	108	A	N7-C8-N9	-9.09	109.25	113.80
85	5	3379	C	N1-C2-O2	-9.09	113.44	118.90
80	6	1652	C	OP1-P-OP2	-9.09	105.97	119.60
85	5	2848	G	C8-N9-C4	-9.09	102.76	106.40
36	1	1301	A	O5'-P-OP2	9.09	121.61	110.70
36	1	2906	C	C5-C6-N1	-9.09	116.46	121.00
37	7	115	G	O5'-P-OP2	-9.09	97.52	105.70
1	2	1172	A	O5'-P-OP2	-9.09	97.52	105.70
1	2	1587	U	N1-C2-O2	-9.09	116.44	122.80
36	1	911	C	OP1-P-OP2	-9.09	105.97	119.60
36	1	948	C	N3-C4-C5	-9.09	118.27	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	884	A	C5-N7-C8	-9.09	99.36	103.90
80	6	73	U	O5'-P-OP1	9.09	121.60	110.70
80	6	941	A	C6-N1-C2	-9.09	113.15	118.60
85	5	2738	A	N9-C4-C5	9.09	109.44	105.80
85	5	755	A	C4-C5-N7	9.09	115.24	110.70
85	5	2383	C	N3-C2-O2	-9.09	115.54	121.90
36	1	28	C	N1-C2-O2	-9.08	113.45	118.90
36	1	93	C	C6-N1-C2	-9.08	116.67	120.30
36	1	203	G	OP2-P-O3'	9.08	125.19	105.20
36	1	1897	G	C2-N3-C4	9.08	116.44	111.90
36	1	1443	G	C4-C5-N7	9.08	114.43	110.80
36	1	1865	A	O5'-P-OP2	-9.08	97.53	105.70
36	1	2557	A	N1-C2-N3	9.08	133.84	129.30
36	1	2720	G	O5'-P-OP1	9.08	121.60	110.70
36	1	3326	G	C8-N9-C4	9.08	110.03	106.40
38	4	43	A	C4-C5-C6	-9.08	112.46	117.00
71	O5	46	THR	O-C-N	9.08	137.24	122.70
85	5	693	A	N1-C2-N3	9.08	133.84	129.30
85	5	742	G	C5-N7-C8	-9.08	99.76	104.30
85	5	1220	U	C6-N1-C2	9.08	126.45	121.00
85	5	2730	G	C2-N3-C4	-9.08	107.36	111.90
85	5	2864	A	C2-N3-C4	9.08	115.14	110.60
1	2	1393	A	C2-N3-C4	-9.08	106.06	110.60
36	1	1432	C	C5-C6-N1	9.08	125.54	121.00
36	1	2945	G	C5-N7-C8	-9.08	99.76	104.30
80	6	467	G	C5-N7-C8	9.08	108.84	104.30
85	5	352	A	N7-C8-N9	9.08	118.34	113.80
85	5	700	C	O5'-P-OP1	9.08	121.60	110.70
85	5	1669	C	OP1-P-O3'	9.08	125.17	105.20
85	5	2826	U	C6-N1-C2	9.08	126.45	121.00
37	7	84	A	N3-C4-C5	-9.08	120.44	126.80
38	8	1	A	N1-C2-N3	9.08	133.84	129.30
1	2	1261	G	C8-N9-C4	-9.08	102.77	106.40
36	1	406	G	N3-C2-N2	9.08	126.25	119.90
36	1	975	C	N1-C2-O2	-9.08	113.45	118.90
36	1	2675	C	O5'-P-OP2	9.08	121.59	110.70
36	1	2752	U	C4-C5-C6	9.08	125.15	119.70
38	4	31	G	C5-C6-O6	-9.08	123.15	128.60
80	6	595	G	C8-N9-C4	9.08	110.03	106.40
36	1	2682	C	C4-C5-C6	9.08	121.94	117.40
80	6	1348	A	N9-C4-C5	-9.08	102.17	105.80
85	5	1429	G	N1-C2-N3	9.08	129.34	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2550	U	C6-N1-C2	-9.08	115.55	121.00
1	2	1728	G	O5'-P-OP2	-9.07	97.53	105.70
36	1	648	C	N3-C4-N4	9.07	124.35	118.00
36	1	651	G	N1-C2-N3	9.07	129.34	123.90
36	1	602	A	C8-N9-C4	9.07	109.43	105.80
36	1	724	U	O5'-P-OP2	-9.07	97.53	105.70
36	1	1148	G	O5'-P-OP2	-9.07	97.53	105.70
36	1	2910	A	C6-N1-C2	-9.07	113.16	118.60
85	5	713	U	N1-C2-O2	-9.07	116.45	122.80
85	5	1530	U	C6-N1-C2	9.07	126.44	121.00
85	5	2320	A	N3-C4-C5	9.07	133.15	126.80
85	5	2414	G	C4-C5-N7	9.07	114.43	110.80
85	5	2898	G	N3-C4-C5	9.07	133.14	128.60
1	2	910	C	N3-C2-O2	9.07	128.25	121.90
36	1	590	G	C5-C6-O6	-9.07	123.16	128.60
80	6	403	G	C6-C5-N7	-9.07	124.96	130.40
80	6	792	U	C4-C5-C6	9.07	125.14	119.70
85	5	64	G	N7-C8-N9	9.07	117.64	113.10
85	5	2520	A	C8-N9-C4	-9.07	102.17	105.80
36	1	1515	A	N1-C6-N6	9.07	124.04	118.60
36	1	2176	U	C4-C5-C6	9.07	125.14	119.70
80	6	459	G	C5-N7-C8	-9.07	99.77	104.30
85	5	24	G	C5-C6-N1	9.07	116.03	111.50
85	5	347	G	N7-C8-N9	9.07	117.64	113.10
85	5	813	G	N7-C8-N9	9.07	117.64	113.10
85	5	870	G	C8-N9-C1'	9.07	138.79	127.00
85	5	927	C	C5-C4-N4	-9.07	113.85	120.20
85	5	1284	C	N1-C2-O2	9.07	124.34	118.90
85	5	1883	A	N1-C6-N6	9.07	124.04	118.60
36	1	724	U	C2-N3-C4	-9.07	121.56	127.00
1	2	600	U	OP1-P-OP2	-9.07	106.00	119.60
36	1	1157	G	C5-C6-O6	9.07	134.04	128.60
36	1	1540	U	OP1-P-OP2	-9.07	106.00	119.60
37	3	53	U	N1-C2-N3	9.07	120.34	114.90
73	O7	73	ARG	NE-CZ-NH1	-9.07	115.77	120.30
80	6	215	A	O5'-P-OP1	-9.07	97.54	105.70
80	6	1275	A	C2-N3-C4	-9.07	106.07	110.60
85	5	501	A	C4-C5-N7	-9.07	106.17	110.70
85	5	3249	C	N1-C2-O2	-9.07	113.46	118.90
36	1	430	U	N1-C2-O2	-9.06	116.45	122.80
36	1	1296	C	N1-C2-O2	-9.06	113.46	118.90
1	2	1128	U	N3-C4-C5	-9.06	109.16	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	934	G	N3-C2-N2	-9.06	113.56	119.90
36	1	957	C	N3-C4-N4	9.06	124.34	118.00
36	1	1289	G	C8-N9-C4	9.06	110.03	106.40
36	1	2417	U	C4-C5-C6	-9.06	114.26	119.70
38	4	54	A	C2-N3-C4	-9.06	106.07	110.60
38	4	104	A	C5-N7-C8	-9.06	99.37	103.90
85	5	3116	G	C8-N9-C4	-9.06	102.77	106.40
80	6	783	G	C6-N1-C2	-9.06	119.66	125.10
85	5	1654	A	C6-N1-C2	-9.06	113.16	118.60
85	5	3131	U	C2-N1-C1'	9.06	128.58	117.70
85	5	3309	G	C6-C5-N7	-9.06	124.96	130.40
85	5	3329	U	O5'-P-OP2	-9.06	97.54	105.70
85	5	3347	A	N7-C8-N9	-9.06	109.27	113.80
36	1	977	C	C5-C6-N1	9.06	125.53	121.00
36	1	1648	A	N1-C6-N6	-9.06	113.16	118.60
36	1	1683	A	N7-C8-N9	9.06	118.33	113.80
80	6	378	A	OP1-P-OP2	-9.06	106.01	119.60
85	5	408	A	C5-C6-N6	9.06	130.95	123.70
85	5	649	A	C5-C6-N1	9.06	122.23	117.70
85	5	1869	C	O5'-P-OP1	-9.06	97.55	105.70
85	5	2912	G	N3-C4-C5	-9.06	124.07	128.60
36	1	826	G	C6-C5-N7	-9.06	124.97	130.40
36	1	1070	U	O5'-P-OP2	9.06	121.57	110.70
80	6	290	G	C8-N9-C4	-9.06	102.78	106.40
85	5	80	G	C4-C5-N7	9.06	114.42	110.80
85	5	278	U	N1-C2-O2	-9.06	116.46	122.80
85	5	402	A	C5-C6-N1	9.06	122.23	117.70
85	5	2134	G	N9-C4-C5	-9.06	101.78	105.40
85	5	2991	A	C6-N1-C2	-9.06	113.17	118.60
85	5	981	U	C5-C4-O4	-9.06	120.47	125.90
85	5	2933	A	C8-N9-C4	-9.06	102.18	105.80
85	5	3018	C	N3-C4-C5	9.06	125.52	121.90
40	13	100	ARG	NE-CZ-NH1	9.06	124.83	120.30
36	1	2278	C	N1-C2-O2	9.06	124.33	118.90
85	5	89	A	N3-C4-C5	9.06	133.14	126.80
85	5	1940	G	C4-C5-N7	9.05	114.42	110.80
85	5	2144	A	O5'-P-OP2	-9.06	97.55	105.70
36	1	588	G	C5-C6-N1	9.05	116.03	111.50
36	1	2973	G	O5'-P-OP2	-9.05	97.55	105.70
80	6	403	G	N3-C4-C5	9.05	133.13	128.60
85	5	1000	C	N1-C2-O2	9.05	124.33	118.90
85	5	1115	G	N7-C8-N9	9.05	117.63	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2382	G	C8-N9-C4	9.05	110.02	106.40
38	8	46	G	O5'-P-OP1	-9.05	97.55	105.70
36	1	1293	U	N1-C2-O2	-9.05	116.46	122.80
36	1	2229	A	C2-N3-C4	9.05	115.12	110.60
85	5	1297	C	C5-C6-N1	9.05	125.53	121.00
85	5	2811	A	C8-N9-C4	-9.05	102.18	105.80
85	5	3328	G	N9-C4-C5	9.05	109.02	105.40
37	7	61	G	OP1-P-OP2	9.05	133.18	119.60
1	2	895	U	C5-C6-N1	9.05	127.22	122.70
36	1	353	G	N3-C2-N2	-9.05	113.57	119.90
36	1	360	G	C4-C5-C6	9.05	124.23	118.80
36	1	1757	A	C8-N9-C4	-9.05	102.18	105.80
85	5	1102	A	N1-C2-N3	9.05	133.82	129.30
85	5	1733	G	N3-C4-C5	9.05	133.12	128.60
80	6	1130	G	C5-C6-O6	-9.05	123.17	128.60
85	5	647	A	N3-C4-C5	-9.05	120.47	126.80
85	5	1486	G	C2-N3-C4	-9.05	107.38	111.90
85	5	2636	A	C8-N9-C4	-9.05	102.18	105.80
36	1	1182	A	C6-C5-N7	-9.05	125.97	132.30
85	5	221	A	C4-C5-N7	-9.05	106.18	110.70
85	5	2663	G	C5-C6-N1	-9.05	106.98	111.50
36	1	1794	G	N7-C8-N9	9.04	117.62	113.10
38	4	40	A	OP1-P-OP2	9.04	133.17	119.60
38	4	137	C	N1-C2-O2	-9.05	113.47	118.90
85	5	581	U	N3-C4-C5	-9.05	109.17	114.60
85	5	2130	G	O5'-P-OP2	-9.05	97.56	105.70
85	5	2396	G	N1-C2-N3	9.04	129.33	123.90
38	8	110	C	N3-C4-N4	9.04	124.33	118.00
36	1	1931	U	C2-N3-C4	-9.04	121.57	127.00
36	1	3081	C	N3-C2-O2	9.04	128.23	121.90
36	1	3258	U	O5'-P-OP2	9.04	121.55	110.70
85	5	104	G	N3-C4-C5	9.04	133.12	128.60
85	5	49	A	N1-C6-N6	9.04	124.03	118.60
85	5	326	U	C6-N1-C2	-9.04	115.58	121.00
85	5	657	A	N3-C4-C5	9.04	133.13	126.80
85	5	2553	U	C6-N1-C2	-9.04	115.57	121.00
85	5	3043	C	N1-C2-O2	-9.04	113.47	118.90
85	5	2715	A	N3-C4-C5	-9.04	120.47	126.80
36	1	1048	A	N1-C6-N6	-9.04	113.18	118.60
36	1	2713	U	C5-C6-N1	-9.04	118.18	122.70
38	4	106	C	N3-C4-C5	-9.04	118.28	121.90
80	6	792	U	N3-C4-C5	-9.04	109.18	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	353	G	N3-C4-C5	-9.04	124.08	128.60
85	5	1156	C	C5-C4-N4	-9.04	113.87	120.20
85	5	1424	C	N1-C2-N3	-9.04	112.87	119.20
85	5	1863	G	N1-C2-N3	9.04	129.32	123.90
85	5	2821	C	N3-C4-N4	9.04	124.33	118.00
1	2	1469	G	N1-C2-N3	9.04	129.32	123.90
36	1	906	A	N7-C8-N9	-9.04	109.28	113.80
36	1	1367	G	C6-C5-N7	-9.04	124.98	130.40
36	1	1637	A	N7-C8-N9	-9.04	109.28	113.80
36	1	2398	A	N9-C4-C5	9.04	109.42	105.80
36	1	2412	G	C5-C6-N1	9.04	116.02	111.50
80	6	1027	A	C5-C6-N1	-9.04	113.18	117.70
80	6	1534	G	C4-C5-N7	-9.04	107.19	110.80
85	5	672	A	C2-N3-C4	9.04	115.12	110.60
85	5	1498	A	C8-N9-C4	9.04	109.42	105.80
85	5	1662	G	C6-N1-C2	9.04	130.52	125.10
85	5	1911	A	O5'-P-OP2	-9.04	97.57	105.70
85	5	3267	A	C2-N3-C4	9.04	115.12	110.60
85	5	3396	U	OP1-P-OP2	9.04	133.16	119.60
37	7	116	C	C2-N3-C4	9.04	124.42	119.90
36	1	764	U	C2-N3-C4	9.04	132.42	127.00
36	1	944	C	O5'-P-OP2	-9.04	97.57	105.70
36	1	1094	U	N3-C4-C5	-9.04	109.18	114.60
36	1	2619	G	N1-C2-N2	-9.04	108.07	116.20
36	1	1486	G	C5-C6-O6	-9.03	123.18	128.60
36	1	2297	U	N1-C2-N3	9.03	120.32	114.90
36	1	3246	G	N1-C2-N2	-9.03	108.07	116.20
80	6	25	C	N3-C4-N4	9.04	124.33	118.00
80	6	423	G	N9-C4-C5	9.04	109.01	105.40
85	5	3300	U	O5'-P-OP1	9.03	121.54	110.70
80	6	467	G	C4-C5-N7	-9.03	107.19	110.80
80	6	985	G	N1-C6-O6	9.03	125.32	119.90
1	2	279	G	C2-N3-C4	9.03	116.42	111.90
36	1	119	U	N1-C2-O2	9.03	129.12	122.80
36	1	230	U	C5-C6-N1	-9.03	118.18	122.70
36	1	911	C	N1-C2-N3	9.03	125.52	119.20
36	1	2863	G	C4-C5-N7	9.03	114.41	110.80
85	5	878	G	C4-C5-N7	9.03	114.41	110.80
36	1	2099	A	C4-C5-C6	9.03	121.52	117.00
36	1	2427	U	C6-N1-C2	9.03	126.42	121.00
36	1	2978	U	C4-C5-C6	9.03	125.12	119.70
80	6	196	G	C8-N9-C4	9.03	110.01	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1589	A	N7-C8-N9	9.03	118.31	113.80
85	5	1616	U	N1-C2-N3	9.03	120.32	114.90
85	5	2416	U	C4-C5-C6	9.03	125.12	119.70
85	5	2610	G	N3-C2-N2	-9.03	113.58	119.90
85	5	3097	C	C5-C6-N1	9.03	125.52	121.00
1	2	321	C	C6-N1-C2	-9.03	116.69	120.30
36	1	1330	A	N1-C2-N3	9.03	133.81	129.30
36	1	2197	C	C5-C6-N1	-9.03	116.48	121.00
36	1	2624	G	O5'-P-OP2	9.03	121.53	110.70
80	6	9	U	C5-C6-N1	-9.03	118.19	122.70
85	5	146	U	C5-C6-N1	-9.03	118.19	122.70
85	5	364	G	N1-C2-N3	9.03	129.32	123.90
85	5	1429	G	C5-N7-C8	-9.03	99.79	104.30
85	5	2603	G	C6-C5-N7	-9.03	124.98	130.40
85	5	2936	A	OP1-P-O3'	9.03	125.07	105.20
85	5	2188	A	O5'-P-OP2	-9.03	97.58	105.70
85	5	3217	C	OP1-P-OP2	-9.03	106.06	119.60
1	2	1642	A	C8-N9-C4	-9.03	102.19	105.80
36	1	947	G	C5-C6-N1	-9.03	106.99	111.50
80	6	534	A	C5-N7-C8	9.03	108.41	103.90
36	1	1708	C	N1-C2-N3	9.03	125.52	119.20
80	6	95	G	C2-N3-C4	9.03	116.41	111.90
85	5	2858	U	C5-C6-N1	9.03	127.21	122.70
85	5	2900	A	C6-N1-C2	-9.03	113.19	118.60
1	2	1285	U	C5-C6-N1	-9.02	118.19	122.70
36	1	2202	C	C4-C5-C6	-9.02	112.89	117.40
36	1	2917	G	N3-C4-C5	-9.02	124.09	128.60
80	6	960	U	C6-N1-C2	-9.02	115.59	121.00
85	5	2381	G	N1-C6-O6	9.02	125.31	119.90
85	5	3306	U	C5-C4-O4	-9.02	120.48	125.90
80	6	1127	G	O5'-P-OP2	-9.02	97.58	105.70
85	5	861	C	N1-C2-O2	-9.02	113.49	118.90
85	5	1434	G	C6-C5-N7	-9.02	124.99	130.40
85	5	1489	A	N1-C6-N6	9.02	124.01	118.60
36	1	2695	A	O5'-P-OP2	9.02	121.52	110.70
85	5	1901	A	N9-C4-C5	9.02	109.41	105.80
36	1	1870	C	N3-C2-O2	9.02	128.21	121.90
36	1	2668	U	C5-C6-N1	-9.02	118.19	122.70
38	4	87	G	N3-C2-N2	9.02	126.21	119.90
85	5	2333	C	C5-C4-N4	-9.02	113.89	120.20
36	1	1469	C	N1-C2-O2	9.02	124.31	118.90
36	1	3181	C	N3-C4-N4	-9.02	111.69	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	87	G	C8-N9-C4	9.02	110.01	106.40
80	6	165	G	C5-C6-N1	-9.02	106.99	111.50
1	2	347	G	C5-C6-N1	-9.02	106.99	111.50
80	6	94	U	C5-C4-O4	9.02	131.31	125.90
80	6	264	G	N3-C4-N9	-9.02	120.59	126.00
37	7	87	G	C8-N9-C4	9.02	110.01	106.40
38	8	27	U	C5-C4-O4	-9.02	120.49	125.90
40	13	167	ARG	NE-CZ-NH2	-9.02	115.79	120.30
80	6	1128	C	N1-C2-N3	9.02	125.51	119.20
85	5	1285	G	N1-C6-O6	-9.02	114.49	119.90
1	2	1433	U	C5-C4-O4	-9.01	120.49	125.90
36	1	305	U	O5'-P-OP2	9.01	121.52	110.70
36	1	870	G	C6-C5-N7	-9.01	124.99	130.40
36	1	1433	A	C2-N3-C4	9.01	115.11	110.60
36	1	3365	U	N3-C2-O2	-9.01	115.89	122.20
85	5	865	U	O5'-P-OP1	-9.01	97.59	105.70
36	1	43	A	O5'-P-OP2	-9.01	97.59	105.70
36	1	1682	U	N3-C4-C5	-9.01	109.19	114.60
36	1	1729	A	N1-C2-N3	9.01	133.81	129.30
38	4	121	U	C6-N1-C2	-9.01	115.59	121.00
85	5	194	U	C6-N1-C2	-9.01	115.59	121.00
85	5	669	U	C5-C4-O4	9.01	131.31	125.90
38	8	15	G	N1-C2-N2	-9.01	108.09	116.20
85	5	1654	A	N1-C2-N3	9.01	133.81	129.30
1	2	401	A	C5-C6-N1	9.01	122.20	117.70
36	1	1512	U	C4-C5-C6	9.01	125.11	119.70
36	1	2222	A	N7-C8-N9	9.01	118.31	113.80
36	1	2776	C	C5-C4-N4	-9.01	113.89	120.20
36	1	3217	C	C6-N1-C2	-9.01	116.70	120.30
80	6	1051	G	N3-C4-N9	-9.01	120.59	126.00
85	5	1501	U	N3-C2-O2	9.01	128.51	122.20
85	5	2797	C	N3-C4-N4	9.01	124.31	118.00
37	7	87	G	N1-C2-N2	9.01	124.31	116.20
36	1	420	G	N1-C6-O6	9.01	125.30	119.90
36	1	2188	A	OP1-P-OP2	-9.01	106.09	119.60
36	1	2936	A	C6-N1-C2	-9.01	113.20	118.60
80	6	1487	A	C8-N9-C4	9.01	109.40	105.80
85	5	270	U	N3-C2-O2	9.01	128.50	122.20
36	1	1184	A	C8-N9-C4	9.01	109.40	105.80
36	1	3183	A	O5'-P-OP2	-9.01	97.59	105.70
80	6	316	A	N1-C6-N6	-9.01	113.20	118.60
80	6	984	G	C4-C5-N7	-9.01	107.20	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1657	U	C5-C6-N1	9.01	127.20	122.70
85	5	1484	U	N1-C2-O2	-9.01	116.50	122.80
85	5	1588	A	C5-C6-N6	9.01	130.91	123.70
85	5	2264	U	C5-C4-O4	-9.01	120.50	125.90
85	5	3315	G	N9-C4-C5	9.01	109.00	105.40
1	2	23	G	C8-N9-C4	-9.00	102.80	106.40
36	1	977	C	C6-N1-C2	-9.00	116.70	120.30
80	6	358	U	N3-C2-O2	-9.00	115.90	122.20
36	1	1833	G	C8-N9-C4	9.00	110.00	106.40
36	1	3099	C	C6-N1-C2	9.00	123.90	120.30
85	5	571	U	N3-C2-O2	-9.00	115.90	122.20
85	5	1552	G	C5-C6-O6	-9.00	123.20	128.60
85	5	2773	C	OP1-P-OP2	-9.00	106.09	119.60
85	5	3196	U	C6-N1-C2	9.00	126.40	121.00
1	2	1495	G	C8-N9-C4	-9.00	102.80	106.40
80	6	471	A	C2-N3-C4	-9.00	106.10	110.60
85	5	25	U	C4-C5-C6	9.00	125.10	119.70
36	1	2132	C	N3-C4-N4	9.00	124.30	118.00
80	6	1053	G	C5-C6-O6	-9.00	123.20	128.60
85	5	154	U	N3-C2-O2	9.00	128.50	122.20
85	5	1146	C	N3-C2-O2	9.00	128.20	121.90
85	5	1149	G	C6-C5-N7	-9.00	125.00	130.40
85	5	2590	A	C2-N3-C4	-9.00	106.10	110.60
85	5	3023	U	N3-C2-O2	9.00	128.50	122.20
37	7	25	G	C4-C5-N7	-9.00	107.20	110.80
36	1	569	A	C5-C6-N1	-9.00	113.20	117.70
36	1	968	G	C4-C5-N7	9.00	114.40	110.80
80	6	981	U	N1-C2-N3	9.00	120.30	114.90
85	5	1336	U	C2-N3-C4	-9.00	121.60	127.00
37	3	3	U	N1-C2-O2	9.00	129.10	122.80
38	4	106	C	C6-N1-C2	9.00	123.90	120.30
80	6	856	A	C5-C6-N1	9.00	122.20	117.70
85	5	224	C	C6-N1-C2	-9.00	116.70	120.30
85	5	983	A	N9-C4-C5	9.00	109.40	105.80
85	5	1618	G	C8-N9-C4	9.00	110.00	106.40
85	5	3051	U	N3-C4-C5	9.00	120.00	114.60
36	1	1331	U	OP1-P-OP2	8.99	133.09	119.60
36	1	2222	A	C2-N3-C4	-8.99	106.10	110.60
85	5	780	A	C5-N7-C8	-8.99	99.40	103.90
85	5	974	G	N1-C2-N3	8.99	129.30	123.90
1	2	1100	U	N1-C2-O2	-8.99	116.51	122.80
1	2	1434	C	C5-C6-N1	8.99	125.50	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	194	U	N3-C4-O4	8.99	125.69	119.40
36	1	304	G	N3-C2-N2	-8.99	113.61	119.90
85	5	607	A	N9-C4-C5	8.99	109.40	105.80
38	8	105	A	O5'-P-OP1	8.99	121.49	110.70
38	8	140	G	C5-C6-N1	-8.99	107.00	111.50
36	1	1631	C	N3-C4-C5	8.99	125.50	121.90
36	1	2835	U	N1-C2-N3	8.99	120.30	114.90
85	5	219	A	OP1-P-OP2	8.99	133.09	119.60
85	5	1787	A	C5-C6-N1	-8.99	113.20	117.70
37	7	109	G	C5-N7-C8	-8.99	99.80	104.30
36	1	517	G	C8-N9-C4	-8.99	102.80	106.40
36	1	779	G	O5'-P-OP2	-8.99	97.61	105.70
36	1	672	A	C4-C5-N7	8.99	115.19	110.70
36	1	904	A	C8-N9-C4	8.99	109.40	105.80
36	1	1907	C	N3-C4-C5	-8.99	118.30	121.90
36	1	3261	C	N1-C2-N3	8.99	125.49	119.20
36	1	2139	A	C4-C5-N7	-8.99	106.21	110.70
36	1	2270	A	C5-C6-N1	8.99	122.19	117.70
80	6	1585	U	N3-C4-O4	-8.99	113.11	119.40
85	5	992	A	C2-N3-C4	-8.99	106.10	110.60
85	5	2130	G	N3-C4-N9	-8.99	120.61	126.00
85	5	2351	U	N3-C4-C5	8.99	120.00	114.60
85	5	3304	U	O5'-P-OP2	-8.99	97.61	105.70
85	5	3376	A	N1-C6-N6	-8.99	113.21	118.60
85	5	854	G	C2-N3-C4	-8.99	107.41	111.90
85	5	3075	G	N1-C2-N3	8.99	129.29	123.90
36	1	672	A	N3-C4-N9	-8.99	120.21	127.40
36	1	3295	A	C5-C6-N6	-8.99	116.51	123.70
38	4	64	U	N1-C2-N3	8.99	120.29	114.90
85	5	2395	G	O5'-P-OP1	8.99	121.49	110.70
36	1	157	A	C5-C6-N6	-8.99	116.51	123.70
36	1	1527	C	O5'-P-OP1	-8.99	97.61	105.70
85	5	1346	G	C2-N3-C4	-8.99	107.41	111.90
85	5	1799	A	C5-C6-N1	8.99	122.19	117.70
36	1	2369	G	C5-C6-O6	8.98	133.99	128.60
85	5	408	A	O5'-P-OP1	-8.98	97.61	105.70
36	1	156	G	C5-C6-N1	8.98	115.99	111.50
36	1	383	G	O5'-P-OP2	-8.98	97.61	105.70
36	1	823	C	N1-C2-N3	8.98	125.49	119.20
37	3	84	A	N7-C8-N9	8.98	118.29	113.80
80	6	608	U	C4-C5-C6	8.98	125.09	119.70
85	5	1937	U	C5-C6-N1	-8.98	118.21	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3003	G	N3-C4-N9	-8.98	120.61	126.00
1	2	49	C	N3-C4-C5	-8.98	118.31	121.90
36	1	2739	A	N9-C4-C5	-8.98	102.21	105.80
80	6	93	A	N1-C2-N3	8.98	133.79	129.30
80	6	548	G	N1-C2-N2	8.98	124.28	116.20
80	6	611	U	N1-C2-O2	8.98	129.09	122.80
85	5	53	G	N7-C8-N9	-8.98	108.61	113.10
85	5	1524	A	N9-C4-C5	8.98	109.39	105.80
36	1	616	G	N1-C2-N3	8.98	129.29	123.90
36	1	2118	C	N3-C4-N4	-8.98	111.71	118.00
85	5	1706	C	N3-C2-O2	-8.98	115.61	121.90
85	5	3127	A	C8-N9-C4	-8.98	102.21	105.80
38	8	134	G	N3-C4-C5	8.98	133.09	128.60
36	1	319	A	N1-C2-N3	8.98	133.79	129.30
40	L3	266	ARG	NE-CZ-NH1	-8.98	115.81	120.30
85	5	1159	A	C6-C5-N7	-8.98	126.02	132.30
85	5	2342	U	N1-C2-N3	8.98	120.29	114.90
36	1	2636	A	O5'-P-OP2	8.98	121.47	110.70
38	4	37	A	N7-C8-N9	8.98	118.29	113.80
80	6	703	G	C5-C6-N1	-8.98	107.01	111.50
85	5	40	A	N1-C2-N3	8.98	133.79	129.30
85	5	909	G	C2-N3-C4	-8.98	107.41	111.90
85	5	1475	A	N1-C2-N3	8.98	133.79	129.30
85	5	1531	C	N3-C4-N4	8.98	124.28	118.00
85	5	1899	G	C4-C5-N7	-8.98	107.21	110.80
36	1	911	C	C6-N1-C2	-8.97	116.71	120.30
36	1	2173	U	C4-C5-C6	8.97	125.08	119.70
80	6	558	U	C2-N3-C4	8.97	132.38	127.00
85	5	1613	A	C8-N9-C4	8.97	109.39	105.80
36	1	228	U	N3-C4-O4	-8.97	113.12	119.40
36	1	1300	G	C6-N1-C2	-8.97	119.72	125.10
36	1	1507	G	N1-C2-N3	8.97	129.28	123.90
36	1	3385	U	C6-N1-C2	8.97	126.38	121.00
85	5	37	U	O5'-P-OP1	-8.97	97.62	105.70
85	5	349	A	C2-N3-C4	8.97	115.09	110.60
85	5	882	A	N9-C4-C5	8.97	109.39	105.80
85	5	1145	G	C5-C6-N1	8.97	115.99	111.50
85	5	2362	C	N3-C2-O2	-8.97	115.62	121.90
85	5	3089	C	N1-C2-N3	8.97	125.48	119.20
38	8	81	U	N3-C4-C5	8.97	119.98	114.60
1	2	950	A	N1-C6-N6	8.97	123.98	118.60
36	1	1656	A	O5'-P-OP1	-8.97	97.63	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2231	C	N3-C4-N4	8.97	124.28	118.00
80	6	102	U	OP2-P-O3'	8.97	124.94	105.20
85	5	1106	G	N1-C6-O6	8.97	125.28	119.90
85	5	1178	G	N1-C2-N3	8.97	129.28	123.90
85	5	582	G	N7-C8-N9	8.97	117.58	113.10
36	1	2209	U	C4-C5-C6	-8.97	114.32	119.70
38	4	33	A	N1-C2-N3	8.97	133.78	129.30
80	6	1228	G	C2-N3-C4	8.97	116.38	111.90
85	5	918	C	O5'-P-OP1	8.97	121.46	110.70
85	5	1897	G	C5-C6-N1	-8.97	107.02	111.50
36	1	725	G	C6-C5-N7	-8.96	125.02	130.40
36	1	787	G	C8-N9-C4	-8.96	102.81	106.40
36	1	2943	G	N1-C6-O6	8.97	125.28	119.90
36	1	1335	C	O5'-P-OP1	8.96	121.46	110.70
36	1	1483	G	N9-C4-C5	8.96	108.98	105.40
36	1	2428	U	C2-N3-C4	-8.96	121.62	127.00
80	6	1105	C	C5-C4-N4	-8.97	113.92	120.20
85	5	2150	G	C4-C5-N7	8.97	114.39	110.80
85	5	2989	U	OP1-P-OP2	8.97	133.05	119.60
36	1	3215	A	C6-N1-C2	-8.96	113.22	118.60
80	6	339	C	OP2-P-O3'	8.96	124.92	105.20
85	5	223	U	O5'-P-OP2	-8.96	97.63	105.70
85	5	349	A	C5-N7-C8	-8.96	99.42	103.90
85	5	646	A	C8-N9-C4	-8.96	102.21	105.80
36	1	31	C	O5'-P-OP1	8.96	121.45	110.70
36	1	1913	A	C5-C6-N1	8.96	122.18	117.70
36	1	3045	G	N1-C6-O6	8.96	125.28	119.90
80	6	418	G	N3-C2-N2	8.96	126.17	119.90
85	5	1448	U	C2-N3-C4	-8.96	121.62	127.00
36	1	346	C	O5'-P-OP2	-8.96	97.64	105.70
36	1	2362	C	C4-C5-C6	-8.96	112.92	117.40
36	1	2645	G	C8-N9-C4	8.96	109.98	106.40
85	5	939	U	N1-C2-O2	-8.96	116.53	122.80
85	5	1003	A	C6-C5-N7	-8.96	126.03	132.30
85	5	2831	G	O5'-P-OP1	8.96	121.45	110.70
37	7	18	C	C6-N1-C2	8.96	123.89	120.30
36	1	2702	A	N1-C2-N3	8.96	133.78	129.30
80	6	1535	U	C4-C5-C6	8.96	125.08	119.70
85	5	792	G	C2-N3-C4	-8.96	107.42	111.90
85	5	1437	C	C2-N1-C1'	8.96	128.66	118.80
85	5	1882	G	C6-C5-N7	-8.96	125.02	130.40
36	1	1166	G	C5-C6-O6	-8.96	123.22	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1341	U	N3-C4-O4	8.96	125.67	119.40
38	4	8	C	C6-N1-C2	8.96	123.88	120.30
85	5	971	G	C8-N9-C4	8.96	109.98	106.40
36	1	1763	U	N1-C2-N3	-8.96	109.53	114.90
36	1	1825	G	C2-N3-C4	-8.96	107.42	111.90
85	5	1594	A	N9-C4-C5	8.96	109.38	105.80
38	8	66	A	C4-C5-C6	8.96	121.48	117.00
1	2	364	G	N9-C4-C5	8.96	108.98	105.40
1	2	375	U	N1-C2-N3	8.95	120.27	114.90
1	2	434	G	N1-C6-O6	8.96	125.27	119.90
1	2	1195	G	C4-C5-N7	8.96	114.38	110.80
36	1	343	U	N1-C2-O2	-8.96	116.53	122.80
36	1	1589	A	C6-N1-C2	-8.96	113.23	118.60
85	5	2299	A	N7-C8-N9	-8.95	109.32	113.80
85	5	2350	C	N3-C2-O2	-8.96	115.63	121.90
85	5	2755	C	N1-C2-N3	8.96	125.47	119.20
85	5	2881	C	N1-C2-N3	8.96	125.47	119.20
36	1	2621	G	O5'-P-OP1	8.95	121.44	110.70
36	1	2728	G	O5'-P-OP1	-8.95	97.64	105.70
37	3	83	U	N1-C2-N3	8.95	120.27	114.90
80	6	441	A	C2-N3-C4	-8.95	106.12	110.60
80	6	913	G	N3-C4-C5	8.95	133.08	128.60
85	5	1634	G	C2-N3-C4	-8.95	107.42	111.90
85	5	2282	U	OP1-P-OP2	-8.95	106.17	119.60
85	5	3102	G	N3-C4-C5	8.95	133.08	128.60
1	2	943	U	C6-N1-C2	-8.95	115.63	121.00
36	1	3236	U	N1-C2-O2	8.95	129.06	122.80
85	5	178	U	C5-C4-O4	-8.95	120.53	125.90
85	5	1491	A	C8-N9-C4	8.95	109.38	105.80
36	1	1306	G	C4-C5-C6	8.95	124.17	118.80
36	1	1742	U	C5-C6-N1	8.95	127.17	122.70
36	1	2849	C	OP1-P-OP2	-8.95	106.18	119.60
36	1	3056	U	N3-C4-O4	8.95	125.66	119.40
85	5	389	A	O5'-P-OP1	-8.95	97.64	105.70
85	5	1862	U	O5'-P-OP1	-8.95	97.65	105.70
85	5	2605	G	C5-C6-O6	-8.95	123.23	128.60
85	5	193	C	C2-N3-C4	-8.95	115.43	119.90
1	2	1449	G	O5'-P-OP2	-8.95	97.65	105.70
36	1	1368	U	C2-N3-C4	-8.95	121.63	127.00
36	1	2124	G	C2-N3-C4	-8.95	107.43	111.90
80	6	1136	U	N3-C4-O4	-8.95	113.14	119.40
36	1	2230	C	C5-C6-N1	8.94	125.47	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2624	G	C4-C5-N7	8.95	114.38	110.80
80	6	1117	U	O5'-P-OP1	8.95	121.44	110.70
1	2	390	G	C4-C5-N7	8.94	114.38	110.80
36	1	2821	C	N3-C4-C5	-8.94	118.32	121.90
1	2	1657	C	N3-C4-N4	8.94	124.26	118.00
36	1	2343	C	C5-C4-N4	-8.94	113.94	120.20
36	1	3285	C	N3-C4-C5	8.94	125.48	121.90
37	3	56	A	O5'-P-OP2	-8.94	97.65	105.70
85	5	22	G	N1-C6-O6	8.94	125.27	119.90
85	5	431	U	N3-C4-O4	8.94	125.66	119.40
85	5	741	U	O5'-P-OP2	8.94	121.43	110.70
85	5	1532	C	OP1-P-OP2	-8.94	106.19	119.60
85	5	1910	A	C5-C6-N1	-8.94	113.23	117.70
85	5	1912	U	C5-C6-N1	-8.94	118.23	122.70
85	5	2354	C	C2-N3-C4	8.94	124.37	119.90
85	5	1834	U	C6-N1-C2	-8.94	115.64	121.00
85	5	1904	C	C2-N3-C4	-8.94	115.43	119.90
85	5	2719	U	C5-C6-N1	-8.94	118.23	122.70
85	5	3187	A	O5'-P-OP1	8.94	121.43	110.70
36	1	1414	G	C8-N9-C4	-8.94	102.82	106.40
38	8	3	A	C4-C5-N7	8.94	115.17	110.70
36	1	835	G	N9-C4-C5	8.94	108.97	105.40
36	1	1133	A	C6-N1-C2	-8.94	113.24	118.60
36	1	2366	C	N3-C2-O2	-8.94	115.64	121.90
80	6	1234	A	C8-N9-C4	-8.94	102.22	105.80
36	1	1706	C	N3-C2-O2	-8.94	115.64	121.90
80	6	1010	C	C4-C5-C6	8.94	121.87	117.40
80	6	1053	G	C6-C5-N7	-8.94	125.04	130.40
80	6	1075	C	OP1-P-OP2	8.94	133.01	119.60
85	5	2973	G	N7-C8-N9	8.94	117.57	113.10
85	5	3097	C	C4-C5-C6	-8.94	112.93	117.40
85	5	3329	U	N1-C2-N3	8.94	120.26	114.90
1	2	28	A	N1-C2-N3	8.94	133.77	129.30
1	2	1807	C	N1-C2-O2	8.94	124.26	118.90
36	1	63	A	C5-N7-C8	-8.94	99.43	103.90
36	1	3259	U	C5-C6-N1	8.94	127.17	122.70
68	o2	39	ASP	CB-CG-OD1	-8.94	110.26	118.30
38	4	34	U	C5-C6-N1	-8.94	118.23	122.70
80	6	103	A	N1-C6-N6	8.94	123.96	118.60
85	5	21	G	N9-C4-C5	-8.94	101.83	105.40
85	5	224	C	OP1-P-OP2	-8.94	106.20	119.60
85	5	2743	A	C2-N3-C4	-8.94	106.13	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3107	U	N3-C4-O4	8.94	125.66	119.40
36	1	3302	U	C6-N1-C2	8.93	126.36	121.00
36	1	27	C	N1-C2-N3	8.93	125.45	119.20
36	1	1202	A	C6-C5-N7	-8.93	126.05	132.30
36	1	2430	A	C5-N7-C8	-8.93	99.43	103.90
36	1	2964	G	N1-C2-N3	8.93	129.26	123.90
38	4	26	U	OP1-P-OP2	8.93	133.00	119.60
85	5	101	G	N1-C6-O6	8.93	125.26	119.90
85	5	2523	A	C2-N3-C4	8.93	115.07	110.60
85	5	3023	U	C2-N3-C4	8.93	132.36	127.00
85	5	3046	A	C5-N7-C8	8.93	108.37	103.90
85	5	3210	A	C4-C5-N7	8.93	115.17	110.70
1	2	1728	G	C2-N3-C4	8.93	116.36	111.90
36	1	729	C	N3-C2-O2	-8.93	115.65	121.90
36	1	900	G	C8-N9-C4	-8.93	102.83	106.40
36	1	1664	G	N1-C6-O6	8.93	125.26	119.90
38	8	28	C	N3-C4-C5	8.93	125.47	121.90
36	1	408	A	C5-N7-C8	8.93	108.36	103.90
36	1	1106	G	OP1-P-OP2	8.93	132.99	119.60
36	1	1661	G	N1-C2-N2	-8.93	108.16	116.20
37	3	48	U	O5'-P-OP2	-8.93	97.66	105.70
80	6	211	U	N1-C2-N3	8.93	120.26	114.90
80	6	1757	G	N7-C8-N9	-8.93	108.64	113.10
80	6	1775	U	C2-N3-C4	-8.93	121.64	127.00
85	5	853	G	N1-C2-N3	8.93	129.26	123.90
85	5	950	G	C5-C6-N1	8.93	115.97	111.50
85	5	2419	A	C6-N1-C2	8.93	123.96	118.60
36	1	1528	G	N1-C2-N2	-8.93	108.17	116.20
36	1	1703	U	O5'-P-OP1	-8.93	97.67	105.70
38	4	49	G	C5-C6-N1	8.93	115.96	111.50
85	5	401	U	N1-C2-O2	-8.93	116.55	122.80
85	5	422	A	C5-C6-N6	8.93	130.84	123.70
85	5	533	A	N1-C2-N3	8.93	133.76	129.30
85	5	909	G	OP1-P-OP2	-8.93	106.21	119.60
85	5	1894	U	O5'-P-OP1	8.93	121.41	110.70
85	5	1903	U	N3-C2-O2	8.93	128.45	122.20
85	5	2404	A	N1-C6-N6	8.93	123.95	118.60
38	8	138	A	C6-N1-C2	-8.93	113.25	118.60
36	1	807	A	O5'-P-OP2	-8.92	97.67	105.70
36	1	978	G	C4-C5-N7	8.92	114.37	110.80
36	1	1322	U	N3-C4-C5	-8.92	109.25	114.60
85	5	2312	A	C2-N3-C4	8.92	115.06	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2615	G	C2-N3-C4	-8.92	107.44	111.90
38	4	13	A	N7-C8-N9	8.92	118.26	113.80
80	6	1656	U	N3-C4-O4	8.92	125.64	119.40
85	5	1942	U	N3-C2-O2	-8.92	115.95	122.20
85	5	2851	A	C4-C5-C6	8.92	121.46	117.00
1	2	607	G	C6-C5-N7	-8.92	125.05	130.40
1	2	821	G	C5-C6-O6	-8.92	123.25	128.60
36	1	2797	C	N3-C4-C5	-8.92	118.33	121.90
36	1	2979	U	N1-C2-O2	8.92	129.04	122.80
80	6	448	C	C2-N3-C4	-8.92	115.44	119.90
36	1	1615	C	C5-C6-N1	-8.92	116.54	121.00
85	5	1044	U	OP1-P-OP2	-8.92	106.22	119.60
85	5	1129	A	C4-C5-N7	8.92	115.16	110.70
85	5	1203	A	C8-N9-C4	-8.92	102.23	105.80
85	5	1904	C	N1-C2-O2	8.92	124.25	118.90
85	5	2292	U	C2-N3-C4	8.92	132.35	127.00
85	5	2791	G	O5'-P-OP2	-8.92	97.67	105.70
1	2	408	C	C2-N3-C4	-8.92	115.44	119.90
36	1	94	G	N1-C6-O6	-8.92	114.55	119.90
36	1	522	A	N1-C2-N3	8.92	133.76	129.30
36	1	567	G	N1-C6-O6	8.92	125.25	119.90
36	1	1417	G	C5-C6-N1	8.92	115.96	111.50
80	6	381	C	OP1-P-OP2	-8.92	106.22	119.60
36	1	3011	A	C5-N7-C8	8.92	108.36	103.90
85	5	143	G	C8-N9-C4	8.92	109.97	106.40
85	5	2096	A	C5-N7-C8	-8.92	99.44	103.90
85	5	2137	U	C2-N3-C4	-8.92	121.65	127.00
38	8	91	C	O5'-P-OP2	8.92	121.40	110.70
36	1	39	A	C4-C5-C6	-8.91	112.54	117.00
36	1	181	U	C6-N1-C2	-8.91	115.65	121.00
36	1	1003	A	N1-C2-N3	8.91	133.76	129.30
85	5	2936	A	O5'-P-OP2	-8.91	97.68	105.70
36	1	2396	G	C8-N9-C4	-8.91	102.83	106.40
80	6	107	C	C4-C5-C6	8.91	121.86	117.40
80	6	789	A	N1-C2-N3	8.91	133.76	129.30
36	1	3264	G	N7-C8-N9	-8.91	108.64	113.10
85	5	699	A	N1-C6-N6	8.91	123.95	118.60
85	5	1192	C	C2-N1-C1'	8.91	128.60	118.80
85	5	1309	U	N3-C4-O4	8.91	125.64	119.40
85	5	1609	C	N1-C2-O2	-8.91	113.55	118.90
85	5	2661	G	N3-C4-C5	-8.91	124.14	128.60
85	5	2799	A	C8-N9-C4	-8.91	102.23	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2703	A	C5-N7-C8	-8.91	99.44	103.90
37	7	52	G	N7-C8-N9	-8.91	108.64	113.10
36	1	2381	G	C6-C5-N7	-8.91	125.05	130.40
80	6	1681	A	C2-N3-C4	-8.91	106.14	110.60
85	5	1135	A	O5'-P-OP2	-8.91	97.68	105.70
85	5	2968	G	O5'-P-OP2	8.91	121.39	110.70
85	5	1492	G	C5-C6-N1	-8.91	107.05	111.50
85	5	2971	A	P-O3'-C3'	8.91	130.39	119.70
68	o2	33	ARG	NE-CZ-NH1	8.91	124.75	120.30
1	2	508	U	N3-C2-O2	8.91	128.44	122.20
1	2	801	C	C5-C6-N1	8.91	125.45	121.00
85	5	2246	G	C4-C5-N7	-8.91	107.24	110.80
85	5	2642	A	C5-N7-C8	-8.91	99.45	103.90
36	1	179	C	OP1-P-OP2	-8.91	106.24	119.60
36	1	494	G	C2-N3-C4	8.91	116.35	111.90
36	1	547	G	N3-C4-C5	8.91	133.05	128.60
36	1	1905	G	N3-C2-N2	-8.91	113.67	119.90
36	1	2367	A	N1-C6-N6	8.91	123.94	118.60
36	1	2766	U	O5'-P-OP2	-8.91	97.68	105.70
36	1	437	G	N1-C2-N3	-8.90	118.56	123.90
36	1	1055	A	O5'-P-OP2	8.90	121.39	110.70
85	5	1846	C	N1-C2-O2	8.90	124.24	118.90
36	1	221	A	O5'-P-OP2	-8.90	97.69	105.70
36	1	2130	G	OP1-P-OP2	-8.90	106.24	119.60
80	6	108	A	N1-C2-N3	8.90	133.75	129.30
85	5	2558	U	O5'-P-OP1	-8.90	97.69	105.70
85	5	726	G	C6-C5-N7	-8.90	125.06	130.40
85	5	1158	A	O5'-P-OP1	8.90	121.39	110.70
85	5	1410	U	O5'-P-OP1	8.90	121.38	110.70
37	7	60	G	N9-C4-C5	8.90	108.96	105.40
36	1	557	A	C4-C5-N7	-8.90	106.25	110.70
36	1	717	C	C2-N3-C4	-8.90	115.45	119.90
36	1	911	C	N1-C2-O2	-8.90	113.56	118.90
36	1	1562	C	N3-C4-C5	8.90	125.46	121.90
36	1	3208	G	C4-C5-N7	-8.90	107.24	110.80
85	5	628	A	C4-C5-N7	-8.90	106.25	110.70
85	5	1376	C	N3-C4-C5	-8.90	118.34	121.90
85	5	44	U	C6-N1-C2	8.90	126.34	121.00
85	5	1841	A	C6-C5-N7	-8.90	126.07	132.30
85	5	2997	G	N1-C6-O6	8.90	125.24	119.90
85	5	3190	C	N1-C2-N3	8.90	125.43	119.20
85	5	3209	A	N1-C6-N6	-8.90	113.26	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3387	U	C5-C6-N1	-8.90	118.25	122.70
36	1	38	U	N1-C2-N3	-8.90	109.56	114.90
36	1	1400	G	OP2-P-O3'	8.90	124.78	105.20
85	5	665	A	C5-C6-N6	-8.90	116.58	123.70
38	8	144	G	C2-N3-C4	8.90	116.35	111.90
1	2	1588	G	N1-C6-O6	8.90	125.24	119.90
36	1	387	A	N1-C6-N6	-8.90	113.26	118.60
36	1	558	U	C5-C6-N1	-8.90	118.25	122.70
36	1	632	G	N9-C4-C5	-8.90	101.84	105.40
36	1	891	G	O5'-P-OP2	-8.90	97.69	105.70
85	5	3348	G	N7-C8-N9	-8.90	108.65	113.10
36	1	2146	C	N1-C2-N3	8.90	125.43	119.20
36	1	2874	G	N1-C6-O6	8.90	125.24	119.90
85	5	497	C	OP1-P-OP2	-8.90	106.25	119.60
85	5	2138	A	C6-N1-C2	-8.90	113.26	118.60
36	1	924	G	C6-C5-N7	-8.89	125.06	130.40
36	1	945	C	N3-C4-C5	-8.89	118.34	121.90
85	5	1673	G	N1-C2-N2	-8.89	108.19	116.20
36	1	984	G	C5-N7-C8	-8.89	99.85	104.30
36	1	1765	U	C5-C4-O4	-8.89	120.56	125.90
80	6	1455	G	C8-N9-C4	-8.89	102.84	106.40
85	5	1788	C	N3-C2-O2	-8.89	115.67	121.90
85	5	1656	A	O5'-P-OP1	-8.89	97.70	105.70
85	5	2972	G	C5-N7-C8	-8.89	99.85	104.30
85	5	3188	G	N3-C4-C5	-8.89	124.15	128.60
85	5	3196	U	N3-C4-C5	8.89	119.94	114.60
36	1	609	G	N1-C2-N2	8.89	124.20	116.20
36	1	2638	C	C5-C6-N1	8.89	125.45	121.00
80	6	616	G	C8-N9-C4	-8.89	102.84	106.40
85	5	610	G	C5-C6-O6	8.89	133.94	128.60
85	5	916	G	N9-C4-C5	8.89	108.96	105.40
85	5	1347	U	N3-C4-C5	-8.89	109.27	114.60
85	5	1648	A	N1-C6-N6	8.89	123.94	118.60
38	8	27	U	N3-C2-O2	8.89	128.42	122.20
36	1	735	A	C8-N9-C4	8.89	109.36	105.80
36	1	3347	A	C2-N3-C4	8.89	115.05	110.60
85	5	1582	C	C5-C6-N1	8.89	125.44	121.00
85	5	1726	C	C6-N1-C2	8.89	123.86	120.30
85	5	3128	G	C5-C6-N1	8.89	115.95	111.50
85	5	3318	G	C2-N3-C4	-8.89	107.45	111.90
36	1	140	C	N1-C2-O2	8.89	124.23	118.90
36	1	3190	C	N3-C4-N4	8.89	124.22	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1487	G	C5-C6-O6	8.89	133.93	128.60
36	1	320	G	N1-C6-O6	-8.89	114.57	119.90
36	1	358	G	C5-C6-O6	-8.89	123.27	128.60
36	1	1082	U	C5-C4-O4	8.89	131.23	125.90
36	1	2216	G	OP1-P-OP2	-8.89	106.27	119.60
36	1	2799	A	N9-C4-C5	8.89	109.36	105.80
36	1	2899	C	N3-C4-N4	-8.89	111.78	118.00
37	3	83	U	C6-N1-C2	-8.89	115.67	121.00
38	4	57	C	OP2-P-O3'	8.89	124.75	105.20
85	5	384	A	C5-C6-N1	8.89	122.14	117.70
85	5	1477	A	C5-N7-C8	-8.89	99.46	103.90
85	5	1919	G	N7-C8-N9	8.89	117.54	113.10
85	5	2279	A	N9-C4-C5	8.89	109.36	105.80
85	5	2603	G	C2-N3-C4	-8.89	107.46	111.90
85	5	2761	G	N3-C4-N9	8.89	131.33	126.00
38	8	100	U	OP1-P-OP2	-8.89	106.27	119.60
1	2	561	G	C8-N9-C4	-8.89	102.85	106.40
1	2	859	G	C8-N9-C4	8.89	109.95	106.40
1	2	1442	C	N3-C4-C5	-8.89	118.35	121.90
1	2	1751	G	C4-C5-N7	-8.89	107.25	110.80
36	1	657	A	OP1-P-OP2	-8.89	106.27	119.60
80	6	321	C	N3-C2-O2	-8.89	115.68	121.90
85	5	2900	A	N1-C2-N3	8.89	133.74	129.30
1	2	1481	G	C8-N9-C4	8.88	109.95	106.40
85	5	2371	G	C8-N9-C4	8.88	109.95	106.40
38	8	17	A	C6-C5-N7	-8.89	126.08	132.30
36	1	21	G	OP1-P-OP2	-8.88	106.28	119.60
36	1	2957	G	N1-C6-O6	-8.88	114.57	119.90
36	1	3052	G	C6-C5-N7	-8.88	125.07	130.40
36	1	3388	C	OP1-P-OP2	-8.88	106.28	119.60
37	3	84	A	O5'-P-OP2	-8.88	97.70	105.70
80	6	1639	C	OP1-P-OP2	-8.88	106.28	119.60
85	5	703	G	C8-N9-C4	-8.88	102.85	106.40
85	5	897	U	C5-C4-O4	8.88	131.23	125.90
85	5	1487	G	N9-C4-C5	8.88	108.95	105.40
85	5	2177	G	C4-C5-N7	-8.88	107.25	110.80
85	5	2180	G	N3-C4-C5	8.88	133.04	128.60
85	5	2200	U	C2-N3-C4	-8.88	121.67	127.00
85	5	2608	G	C8-N9-C4	8.88	109.95	106.40
85	5	2773	C	N3-C2-O2	8.88	128.12	121.90
36	1	3117	C	N3-C2-O2	8.88	128.12	121.90
85	5	1264	G	C4-C5-N7	-8.88	107.25	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1151	U	C6-N1-C2	-8.88	115.67	121.00
1	2	1350	G	O5'-P-OP2	-8.88	97.71	105.70
36	1	299	G	C5-N7-C8	-8.88	99.86	104.30
36	1	343	U	C4-C5-C6	8.88	125.03	119.70
36	1	644	G	O5'-P-OP2	8.88	121.35	110.70
36	1	804	C	N3-C4-C5	8.88	125.45	121.90
36	1	837	A	O5'-P-OP2	-8.88	97.71	105.70
36	1	1363	A	C5-C6-N1	8.88	122.14	117.70
36	1	2117	A	N1-C6-N6	-8.88	113.27	118.60
36	1	3276	G	C6-N1-C2	8.88	130.43	125.10
85	5	332	C	C5-C6-N1	-8.88	116.56	121.00
85	5	1515	A	OP1-P-OP2	-8.88	106.28	119.60
85	5	2177	G	N9-C4-C5	8.88	108.95	105.40
85	5	2295	A	N1-C2-N3	8.88	133.74	129.30
40	13	196	ARG	NE-CZ-NH1	8.88	124.74	120.30
1	2	1137	G	N1-C6-O6	8.88	125.22	119.90
36	1	880	G	C4-C5-N7	-8.88	107.25	110.80
85	5	427	C	OP2-P-O3'	8.88	124.73	105.20
36	1	438	A	N1-C6-N6	8.87	123.92	118.60
36	1	1490	A	C5-C6-N6	8.87	130.80	123.70
36	1	2878	G	C5-C6-N1	-8.87	107.06	111.50
36	1	3112	G	OP1-P-OP2	8.88	132.91	119.60
85	5	12	A	N1-C2-N3	8.87	133.74	129.30
85	5	1194	G	C8-N9-C4	-8.87	102.85	106.40
85	5	2376	G	C2-N3-C4	-8.88	107.46	111.90
85	5	3079	U	N1-C2-N3	8.87	120.22	114.90
85	5	3197	G	O5'-P-OP2	-8.87	97.71	105.70
1	2	1307	G	C8-N9-C4	-8.87	102.85	106.40
36	1	2396	G	N3-C2-N2	-8.87	113.69	119.90
38	4	138	A	C5-C6-N6	-8.87	116.60	123.70
85	5	2380	U	C4-C5-C6	8.87	125.02	119.70
36	1	1069	C	N3-C4-C5	8.87	125.45	121.90
37	3	86	U	O5'-P-OP2	-8.87	97.72	105.70
38	4	151	C	C4-C5-C6	8.87	121.84	117.40
85	5	388	G	O5'-P-OP1	8.87	121.35	110.70
85	5	873	C	N1-C2-N3	8.87	125.41	119.20
85	5	1449	A	C2-N3-C4	8.87	115.03	110.60
85	5	1541	G	N9-C4-C5	-8.87	101.85	105.40
85	5	3172	A	N3-C4-C5	-8.87	120.59	126.80
36	1	100	A	C5-C6-N6	8.87	130.80	123.70
36	1	2338	C	C2-N3-C4	-8.87	115.47	119.90
36	1	3309	G	C6-C5-N7	-8.87	125.08	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3343	G	C4-C5-C6	8.87	124.12	118.80
85	5	716	A	C2-N3-C4	-8.87	106.17	110.60
36	1	98	G	N3-C2-N2	-8.87	113.69	119.90
85	5	597	G	N1-C6-O6	-8.87	114.58	119.90
85	5	1860	G	OP1-P-OP2	-8.87	106.30	119.60
36	1	218	G	OP1-P-OP2	8.87	132.90	119.60
36	1	593	C	O5'-P-OP2	-8.87	97.72	105.70
36	1	789	A	C5-C6-N6	8.87	130.79	123.70
36	1	810	A	N7-C8-N9	8.87	118.23	113.80
36	1	1382	G	N3-C2-N2	-8.87	113.69	119.90
36	1	2419	A	N1-C2-N3	8.87	133.73	129.30
80	6	971	A	C6-N1-C2	-8.87	113.28	118.60
85	5	776	U	C2-N3-C4	-8.87	121.68	127.00
85	5	1409	G	C4-C5-N7	8.87	114.35	110.80
37	7	88	G	C4-C5-C6	8.87	124.12	118.80
85	5	1473	G	N7-C8-N9	-8.87	108.67	113.10
85	5	2858	U	OP1-P-OP2	-8.87	106.30	119.60
37	7	98	C	C6-N1-C2	8.87	123.85	120.30
1	2	625	C	C6-N1-C2	-8.87	116.75	120.30
1	2	1643	A	C5-C6-N6	-8.87	116.61	123.70
36	1	1286	A	N7-C8-N9	-8.87	109.37	113.80
1	2	535	A	C8-N9-C4	-8.86	102.25	105.80
36	1	1634	G	N9-C4-C5	8.87	108.95	105.40
36	1	2628	A	C2-N3-C4	8.87	115.03	110.60
36	1	2727	A	N9-C4-C5	8.87	109.35	105.80
36	1	2815	G	N1-C2-N3	8.86	129.22	123.90
36	1	3231	U	C5-C6-N1	-8.87	118.27	122.70
85	5	199	A	N1-C2-N3	8.87	133.73	129.30
85	5	509	U	C4-C5-C6	8.87	125.02	119.70
85	5	918	C	C4-C5-C6	-8.87	112.97	117.40
85	5	1310	G	N9-C4-C5	8.87	108.95	105.40
85	5	3227	A	N1-C2-N3	8.87	133.73	129.30
85	5	3330	A	O5'-P-OP1	8.86	121.34	110.70
36	1	1730	G	C6-N1-C2	-8.86	119.78	125.10
36	1	2893	C	C2-N3-C4	-8.86	115.47	119.90
80	6	394	C	C5-C4-N4	-8.86	114.00	120.20
80	6	1674	C	N3-C4-C5	8.86	125.44	121.90
36	1	701	G	N7-C8-N9	-8.86	108.67	113.10
36	1	1523	U	C6-N1-C2	-8.86	115.68	121.00
80	6	335	U	C2-N1-C1'	8.86	128.33	117.70
85	5	2830	G	C5-C6-O6	8.86	133.92	128.60
38	8	97	A	C4-C5-C6	8.86	121.43	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	447	U	C6-N1-C2	-8.86	115.69	121.00
36	1	275	U	N1-C2-O2	-8.86	116.60	122.80
36	1	955	U	O5'-P-OP1	-8.86	97.73	105.70
36	1	3310	A	C6-C5-N7	-8.86	126.10	132.30
37	3	80	G	C8-N9-C4	8.86	109.94	106.40
38	4	9	A	OP1-P-OP2	-8.86	106.31	119.60
80	6	420	A	C6-N1-C2	8.86	123.92	118.60
85	5	2142	A	C6-C5-N7	8.86	138.50	132.30
38	4	100	U	C6-N1-C1'	-8.86	108.80	121.20
80	6	540	G	N3-C2-N2	8.86	126.10	119.90
85	5	1506	A	N1-C2-N3	-8.86	124.87	129.30
85	5	1682	U	N3-C4-O4	8.86	125.60	119.40
85	5	2136	C	C5-C4-N4	8.86	126.40	120.20
85	5	2986	U	N3-C4-O4	8.86	125.60	119.40
85	5	897	U	N1-C2-N3	8.86	120.21	114.90
1	2	1109	G	C4-C5-N7	-8.86	107.26	110.80
36	1	752	C	C5-C4-N4	8.86	126.40	120.20
85	5	2275	A	N1-C6-N6	8.86	123.91	118.60
85	5	2939	G	N9-C4-C5	-8.86	101.86	105.40
85	5	3184	A	O5'-P-OP2	-8.86	97.73	105.70
36	1	939	U	C2-N3-C4	-8.86	121.69	127.00
36	1	2378	C	N3-C4-C5	8.86	125.44	121.90
85	5	2556	C	N3-C2-O2	-8.86	115.70	121.90
85	5	3004	C	C5-C6-N1	8.86	125.43	121.00
38	8	63	G	N1-C2-N3	8.86	129.21	123.90
36	1	1115	G	N7-C8-N9	8.85	117.53	113.10
85	5	646	A	N1-C2-N3	8.85	133.73	129.30
85	5	2728	G	C5-C6-O6	8.85	133.91	128.60
36	1	23	A	O5'-P-OP2	-8.85	97.73	105.70
36	1	596	C	C2-N3-C4	-8.85	115.47	119.90
36	1	787	G	C5-C6-N1	8.85	115.93	111.50
80	6	331	A	C4-C5-C6	8.85	121.43	117.00
80	6	901	G	C4-C5-N7	8.85	114.34	110.80
26	d4	132	ARG	NE-CZ-NH1	-8.85	115.87	120.30
85	5	600	G	C8-N9-C4	-8.85	102.86	106.40
85	5	994	G	C8-N9-C4	-8.85	102.86	106.40
85	5	2936	A	N7-C8-N9	8.85	118.23	113.80
85	5	1116	G	C4-C5-N7	-8.85	107.26	110.80
85	5	3047	U	C4-C5-C6	8.85	125.01	119.70
85	5	3128	G	O5'-P-OP1	-8.85	97.73	105.70
36	1	28	C	C4-C5-C6	8.85	121.83	117.40
36	1	2242	A	C6-N1-C2	-8.85	113.29	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	772	U	N1-C2-O2	-8.85	116.61	122.80
36	1	3118	C	OP2-P-O3'	8.85	124.67	105.20
80	6	1053	G	N1-C6-O6	8.85	125.21	119.90
80	6	1072	C	N3-C4-C5	8.85	125.44	121.90
85	5	969	C	N1-C2-O2	-8.85	113.59	118.90
85	5	1526	U	N1-C2-N3	8.85	120.21	114.90
36	1	2932	U	C5-C6-N1	-8.85	118.28	122.70
36	1	2989	U	C5-C6-N1	8.85	127.12	122.70
80	6	159	U	N1-C2-O2	8.85	128.99	122.80
80	6	368	U	C4-C5-C6	8.85	125.01	119.70
85	5	18	G	OP1-P-OP2	-8.85	106.33	119.60
85	5	3181	C	N3-C4-N4	8.85	124.19	118.00
1	2	887	G	C4-C5-N7	-8.85	107.26	110.80
36	1	1147	G	C5-C6-O6	8.85	133.91	128.60
80	6	1139	A	N1-C6-N6	-8.85	113.29	118.60
85	5	97	U	N1-C2-N3	-8.85	109.59	114.90
38	8	70	G	N3-C4-C5	-8.85	124.18	128.60
36	1	259	C	N3-C4-N4	-8.84	111.81	118.00
36	1	307	A	C4-C5-N7	-8.84	106.28	110.70
36	1	687	U	C6-N1-C2	-8.84	115.69	121.00
36	1	799	G	N1-C2-N3	8.84	129.21	123.90
36	1	926	A	C8-N9-C4	8.84	109.34	105.80
85	5	3296	A	C5-C6-N1	-8.84	113.28	117.70
36	1	1322	U	OP1-P-OP2	-8.84	106.34	119.60
36	1	2618	G	C5-C6-O6	8.84	133.91	128.60
36	1	2674	A	C8-N9-C4	-8.84	102.26	105.80
37	3	112	G	N3-C4-C5	-8.84	124.18	128.60
80	6	1139	A	C6-N1-C2	-8.84	113.30	118.60
80	6	1667	A	O5'-P-OP1	8.84	121.31	110.70
85	5	394	G	C4-C5-N7	-8.84	107.26	110.80
85	5	524	U	C6-N1-C2	8.84	126.31	121.00
85	5	2669	G	N1-C2-N2	8.84	124.16	116.20
85	5	2877	G	C5-C6-O6	-8.84	123.30	128.60
36	1	3350	C	N1-C2-O2	8.84	124.20	118.90
85	5	2656	A	C4-C5-C6	8.84	121.42	117.00
36	1	159	A	N1-C6-N6	8.84	123.90	118.60
36	1	2954	U	O5'-P-OP1	-8.84	97.74	105.70
36	1	2972	G	C5-C6-N1	8.84	115.92	111.50
85	5	705	A	N1-C2-N3	8.84	133.72	129.30
38	8	62	C	OP1-P-OP2	-8.84	106.34	119.60
37	3	78	U	C5-C6-N1	8.84	127.12	122.70
85	5	1311	G	C5-C6-O6	8.84	133.90	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1654	A	N1-C6-N6	-8.84	113.30	118.60
85	5	2524	A	C5-N7-C8	-8.84	99.48	103.90
85	5	2905	U	N1-C2-N3	8.84	120.20	114.90
36	1	1175	C	C4-C5-C6	8.84	121.82	117.40
36	1	1371	G	N3-C4-C5	8.84	133.02	128.60
80	6	195	G	N3-C4-C5	-8.84	124.18	128.60
85	5	3314	A	C6-N1-C2	-8.84	113.30	118.60
36	1	3228	C	O5'-P-OP2	-8.84	97.75	105.70
85	5	1575	A	N1-C6-N6	8.84	123.90	118.60
85	5	2635	A	C8-N9-C4	-8.84	102.27	105.80
38	8	92	A	C5-C6-N6	-8.84	116.63	123.70
36	1	340	C	N3-C4-C5	-8.83	118.37	121.90
36	1	933	A	N9-C4-C5	8.83	109.33	105.80
36	1	810	A	OP1-P-OP2	-8.83	106.35	119.60
36	1	964	G	C6-C5-N7	8.83	135.70	130.40
36	1	3239	G	C5-N7-C8	-8.83	99.88	104.30
36	1	2625	C	C5-C4-N4	-8.83	114.02	120.20
80	6	1468	U	N1-C2-O2	-8.83	116.62	122.80
85	5	11	A	N9-C4-C5	8.83	109.33	105.80
85	5	65	A	N9-C4-C5	-8.83	102.27	105.80
85	5	786	A	C6-C5-N7	-8.83	126.12	132.30
85	5	2946	A	C2-N3-C4	-8.83	106.18	110.60
36	1	44	U	C5-C6-N1	-8.83	118.28	122.70
36	1	604	G	N7-C8-N9	8.83	117.52	113.10
36	1	1390	A	C5-C6-N6	8.83	130.76	123.70
36	1	1867	A	N1-C6-N6	8.83	123.90	118.60
36	1	1893	A	C5-C6-N1	-8.83	113.28	117.70
38	4	106	C	N1-C2-O2	-8.83	113.60	118.90
38	4	113	U	C6-N1-C2	8.83	126.30	121.00
80	6	825	U	N1-C2-O2	-8.83	116.62	122.80
80	6	1143	A	C4-C5-N7	8.83	115.11	110.70
80	6	1201	G	C8-N9-C4	8.83	109.93	106.40
85	5	207	U	O5'-P-OP1	8.83	121.30	110.70
85	5	573	C	C6-N1-C2	8.83	123.83	120.30
85	5	2268	U	C2-N3-C4	8.83	132.30	127.00
85	5	2613	U	C6-N1-C2	-8.83	115.70	121.00
85	5	2975	U	N1-C2-O2	8.83	128.98	122.80
85	5	768	C	N1-C2-O2	-8.83	113.60	118.90
85	5	2818	U	C5-C4-O4	-8.83	120.60	125.90
85	5	2912	G	C4-C5-N7	-8.83	107.27	110.80
38	8	40	A	C4-C5-C6	8.83	121.41	117.00
36	1	715	A	N1-C2-N3	8.83	133.71	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1664	G	O5'-P-OP2	8.83	121.29	110.70
36	1	2218	G	C4-C5-N7	-8.83	107.27	110.80
36	1	3231	U	C5-C4-O4	8.83	131.20	125.90
85	5	893	C	N1-C2-N3	8.83	125.38	119.20
36	1	1893	A	N1-C2-N3	8.83	133.71	129.30
85	5	1133	A	OP1-P-OP2	-8.83	106.36	119.60
85	5	1311	G	C5-C6-N1	-8.83	107.09	111.50
85	5	1375	G	C8-N9-C4	-8.83	102.87	106.40
85	5	1607	U	C2-N1-C1'	8.83	128.29	117.70
85	5	1624	G	N1-C2-N3	8.82	129.19	123.90
36	1	882	A	C5-C6-N1	-8.82	113.29	117.70
36	1	1949	G	C4-C5-N7	8.82	114.33	110.80
36	1	2954	U	C4-C5-C6	8.82	124.99	119.70
85	5	2737	C	C4-C5-C6	8.82	121.81	117.40
85	5	3185	U	O5'-P-OP2	-8.82	97.76	105.70
36	1	1148	G	C6-C5-N7	-8.82	125.11	130.40
36	1	1294	A	O5'-P-OP2	-8.82	97.76	105.70
36	1	1310	G	N1-C2-N2	-8.82	108.26	116.20
36	1	687	U	N1-C2-O2	-8.82	116.63	122.80
36	1	984	G	C8-N9-C4	-8.82	102.87	106.40
36	1	2701	U	N1-C2-O2	8.82	128.97	122.80
85	5	2123	G	N1-C6-O6	8.82	125.19	119.90
85	5	3021	A	C5-N7-C8	-8.82	99.49	103.90
85	5	3239	G	N1-C6-O6	8.82	125.19	119.90
36	1	1136	A	C2-N3-C4	-8.82	106.19	110.60
36	1	2246	G	C4-C5-N7	-8.82	107.27	110.80
36	1	3217	C	C2-N1-C1'	8.82	128.50	118.80
80	6	1645	G	N7-C8-N9	8.82	117.51	113.10
85	5	1841	A	N7-C8-N9	8.82	118.21	113.80
85	5	3296	A	C4-C5-C6	8.82	121.41	117.00
38	8	117	C	N3-C2-O2	8.82	128.07	121.90
36	1	718	G	N7-C8-N9	8.82	117.51	113.10
85	5	2804	A	N9-C4-C5	8.82	109.33	105.80
1	2	1152	G	C2-N3-C4	8.82	116.31	111.90
1	2	1567	G	C5-C6-O6	8.82	133.89	128.60
36	1	1441	G	C2-N3-C4	-8.82	107.49	111.90
36	1	2728	G	C2-N3-C4	8.82	116.31	111.90
85	5	387	A	N9-C4-C5	8.82	109.33	105.80
85	5	1409	G	C6-C5-N7	-8.82	125.11	130.40
37	7	88	G	O5'-P-OP2	-8.82	97.76	105.70
85	5	820	A	C5-N7-C8	-8.82	99.49	103.90
85	5	2858	U	N3-C2-O2	-8.82	116.03	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	314	U	C5-C6-N1	-8.81	118.29	122.70
36	1	780	A	C8-N9-C4	-8.81	102.27	105.80
36	1	1552	G	N1-C6-O6	8.81	125.19	119.90
36	1	3001	C	O5'-P-OP1	8.81	121.28	110.70
36	1	3239	G	C2-N3-C4	-8.81	107.49	111.90
36	1	3306	U	C2-N3-C4	-8.81	121.71	127.00
37	3	36	C	N1-C2-O2	8.81	124.19	118.90
80	6	1015	U	C4-C5-C6	8.81	124.99	119.70
80	6	1627	U	C6-N1-C2	-8.81	115.71	121.00
85	5	1512	U	OP1-P-OP2	8.81	132.82	119.60
85	5	3048	A	C6-N1-C2	-8.81	113.31	118.60
38	8	17	A	N1-C6-N6	8.81	123.89	118.60
36	1	82	C	C5-C6-N1	-8.81	116.59	121.00
36	1	865	U	C2-N3-C4	-8.81	121.71	127.00
36	1	965	A	C8-N9-C4	-8.81	102.28	105.80
85	5	1319	G	O5'-P-OP1	-8.81	97.77	105.70
36	1	1290	A	C2-N3-C4	-8.81	106.19	110.60
36	1	2169	G	N7-C8-N9	-8.81	108.69	113.10
36	1	2789	U	O5'-P-OP1	-8.81	97.77	105.70
80	6	18	C	N3-C4-N4	8.81	124.17	118.00
80	6	43	A	N3-C4-C5	-8.81	120.63	126.80
80	6	722	G	C5-C6-O6	-8.81	123.31	128.60
80	6	1014	G	C4-C5-C6	8.81	124.09	118.80
80	6	1654	G	C6-C5-N7	-8.81	125.11	130.40
1	2	586	G	N3-C4-C5	-8.81	124.20	128.60
1	2	1174	U	N3-C2-O2	-8.81	116.03	122.20
36	1	614	C	C2-N3-C4	-8.81	115.50	119.90
36	1	1119	C	C6-N1-C2	8.81	123.82	120.30
36	1	3121	U	O5'-P-OP1	-8.81	97.77	105.70
80	6	931	C	N3-C4-N4	8.81	124.17	118.00
85	5	201	A	OP1-P-O3'	8.81	124.58	105.20
85	5	660	A	C5-N7-C8	8.81	108.30	103.90
85	5	2553	U	C4-C5-C6	8.81	124.98	119.70
85	5	200	C	C4-C5-C6	-8.81	113.00	117.40
85	5	742	G	N7-C8-N9	8.81	117.50	113.10
85	5	2599	U	N3-C2-O2	8.81	128.37	122.20
85	5	2856	G	O5'-P-OP1	-8.81	97.77	105.70
38	8	36	G	N1-C2-N3	8.81	129.19	123.90
50	m4	117	ARG	NE-CZ-NH1	-8.81	115.89	120.30
1	2	263	C	C6-N1-C2	-8.81	116.78	120.30
85	5	582	G	C8-N9-C4	-8.81	102.88	106.40
85	5	795	G	C4-C5-C6	8.81	124.08	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1639	U	OP1-P-OP2	-8.80	106.40	119.60
36	1	426	G	C6-N1-C2	-8.80	119.82	125.10
36	1	775	A	C5-C6-N1	-8.80	113.30	117.70
36	1	857	G	N3-C4-N9	-8.80	120.72	126.00
36	1	917	A	N7-C8-N9	-8.80	109.40	113.80
36	1	938	C	OP1-P-OP2	-8.80	106.39	119.60
36	1	1355	A	C8-N9-C4	8.80	109.32	105.80
36	1	1437	C	C6-N1-C2	-8.80	116.78	120.30
36	1	2380	U	N3-C2-O2	8.80	128.36	122.20
36	1	3177	G	C6-C5-N7	8.80	135.68	130.40
80	6	151	G	N3-C2-N2	-8.80	113.74	119.90
80	6	422	G	C6-C5-N7	-8.80	125.12	130.40
80	6	624	G	C5-C6-N1	-8.80	107.10	111.50
80	6	1079	U	N3-C4-O4	-8.80	113.24	119.40
85	5	1165	A	C4-C5-N7	-8.80	106.30	110.70
1	2	447	U	N3-C4-O4	8.80	125.56	119.40
80	6	926	A	N7-C8-N9	8.80	118.20	113.80
80	6	1738	U	N3-C4-C5	-8.80	109.32	114.60
1	2	49	C	C6-N1-C2	-8.80	116.78	120.30
36	1	586	C	N1-C2-O2	-8.80	113.62	118.90
36	1	627	U	C5-C6-N1	8.80	127.10	122.70
36	1	1419	A	O5'-P-OP2	-8.80	97.78	105.70
36	1	2215	A	N3-C4-C5	8.80	132.96	126.80
85	5	610	G	N1-C6-O6	-8.80	114.62	119.90
85	5	1184	A	C5-N7-C8	8.80	108.30	103.90
85	5	885	U	C5-C6-N1	8.80	127.10	122.70
1	2	580	A	C8-N9-C4	-8.80	102.28	105.80
36	1	2829	U	OP1-P-OP2	8.80	132.80	119.60
85	5	944	C	O5'-P-OP1	-8.80	97.78	105.70
36	1	2858	U	N3-C4-O4	8.80	125.56	119.40
80	6	1106	U	C5-C6-N1	8.80	127.10	122.70
85	5	525	C	C2-N3-C4	-8.80	115.50	119.90
85	5	693	A	C6-N1-C2	-8.80	113.32	118.60
85	5	3089	C	N1-C2-O2	-8.80	113.62	118.90
85	5	3324	C	C5-C6-N1	-8.80	116.60	121.00
85	5	3333	G	C5-C6-N1	-8.80	107.10	111.50
1	2	921	G	C5-C6-N1	8.80	115.90	111.50
1	2	1372	C	C6-N1-C2	-8.80	116.78	120.30
36	1	53	G	C5-C6-O6	8.80	133.88	128.60
36	1	575	G	N1-C2-N2	8.79	124.11	116.20
36	1	906	A	C5-C6-N6	-8.79	116.67	123.70
36	1	2331	C	N1-C2-O2	-8.79	113.62	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	135	C	C6-N1-C2	-8.79	116.78	120.30
85	5	392	G	N7-C8-N9	8.79	117.50	113.10
85	5	651	G	O5'-P-OP1	-8.79	97.78	105.70
85	5	786	A	C5-C6-N1	-8.79	113.30	117.70
85	5	1200	A	N7-C8-N9	-8.79	109.40	113.80
85	5	3176	G	O5'-P-OP2	8.80	121.26	110.70
85	5	2096	A	N7-C8-N9	8.79	118.20	113.80
85	5	2852	C	C5-C6-N1	-8.79	116.60	121.00
85	5	2873	U	N1-C2-O2	-8.79	116.64	122.80
85	5	3178	A	C5-C6-N6	8.79	130.74	123.70
36	1	274	G	N7-C8-N9	-8.79	108.70	113.10
36	1	586	C	C5-C4-N4	-8.79	114.05	120.20
36	1	610	G	N3-C2-N2	-8.79	113.75	119.90
36	1	1887	A	C2-N3-C4	-8.79	106.20	110.60
36	1	727	G	C6-N1-C2	-8.79	119.83	125.10
36	1	2519	A	C2-N3-C4	-8.79	106.20	110.60
80	6	64	U	C5-C6-N1	-8.79	118.30	122.70
80	6	453	U	C2-N1-C1'	8.79	128.25	117.70
80	6	1673	G	C6-N1-C2	8.79	130.38	125.10
85	5	3	U	N1-C2-O2	8.79	128.95	122.80
85	5	246	U	N3-C2-O2	-8.79	116.05	122.20
85	5	366	A	C4-C5-C6	8.79	121.40	117.00
85	5	693	A	C5-N7-C8	-8.79	99.50	103.90
85	5	760	G	N7-C8-N9	8.79	117.50	113.10
85	5	1264	G	C2-N3-C4	8.79	116.30	111.90
85	5	1524	A	C8-N9-C4	-8.79	102.28	105.80
85	5	1536	G	C6-C5-N7	-8.79	125.12	130.40
85	5	2272	G	N1-C2-N2	8.79	124.11	116.20
85	5	3117	C	N3-C4-C5	8.79	125.42	121.90
1	2	1436	G	N9-C4-C5	-8.79	101.88	105.40
36	1	28	C	C2-N3-C4	-8.79	115.50	119.90
36	1	217	U	C2-N3-C4	-8.79	121.73	127.00
36	1	426	G	C5-N7-C8	8.79	108.69	104.30
36	1	676	G	N1-C2-N2	-8.79	108.29	116.20
36	1	2342	U	N3-C2-O2	8.79	128.35	122.20
36	1	2971	A	N3-C4-C5	-8.79	120.65	126.80
80	6	830	U	O5'-P-OP2	-8.79	97.79	105.70
4	s2	134	LEU	CB-CG-CD2	-8.79	96.06	111.00
85	5	1175	C	C5-C6-N1	8.79	125.39	121.00
36	1	1122	U	N3-C4-O4	8.79	125.55	119.40
36	1	1163	A	OP1-P-OP2	8.79	132.78	119.60
36	1	2216	G	N7-C8-N9	8.79	117.49	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1115	U	N3-C2-O2	8.79	128.35	122.20
85	5	79	U	N3-C2-O2	-8.79	116.05	122.20
85	5	2907	G	N3-C4-C5	8.79	133.00	128.60
85	5	1529	A	O5'-P-OP2	-8.79	97.79	105.70
85	5	2869	U	N1-C2-O2	8.79	128.95	122.80
85	5	3138	U	N3-C4-C5	-8.79	109.33	114.60
38	8	32	C	C5-C6-N1	8.79	125.39	121.00
36	1	2639	G	N7-C8-N9	8.79	117.49	113.10
85	5	660	A	C4-C5-N7	-8.79	106.31	110.70
1	2	1330	U	N3-C2-O2	8.78	128.35	122.20
36	1	125	C	C2-N3-C4	-8.79	115.51	119.90
36	1	2289	U	N1-C2-N3	8.79	120.17	114.90
36	1	2758	A	C5-C6-N1	8.79	122.09	117.70
85	5	218	G	C8-N9-C4	8.78	109.91	106.40
85	5	735	A	C5-C6-N1	-8.79	113.31	117.70
85	5	2172	A	C2-N3-C4	-8.79	106.21	110.60
85	5	2816	G	N1-C2-N3	8.79	129.17	123.90
85	5	2998	U	C5-C4-O4	-8.79	120.63	125.90
1	2	1535	U	C2-N3-C4	8.78	132.27	127.00
36	1	1865	A	C2-N3-C4	-8.78	106.21	110.60
80	6	69	G	C8-N9-C4	8.78	109.91	106.40
85	5	89	A	C6-N1-C2	8.78	123.87	118.60
85	5	2416	U	O5'-P-OP1	8.78	121.24	110.70
36	1	2290	C	O5'-P-OP2	-8.78	97.80	105.70
36	1	3373	U	C2-N3-C4	-8.78	121.73	127.00
85	5	304	G	N9-C4-C5	8.78	108.91	105.40
85	5	674	G	C6-C5-N7	8.78	135.67	130.40
85	5	811	U	C4-C5-C6	8.78	124.97	119.70
85	5	1129	A	O5'-P-OP1	8.78	121.24	110.70
85	5	1936	A	N1-C6-N6	8.78	123.87	118.60
85	5	2711	C	N3-C4-C5	-8.78	118.39	121.90
37	7	92	A	N1-C6-N6	-8.78	113.33	118.60
37	7	111	U	N1-C2-N3	8.78	120.17	114.90
1	2	813	U	C2-N1-C1'	8.78	128.24	117.70
36	1	1377	G	N7-C8-N9	8.78	117.49	113.10
85	5	1547	G	O5'-P-OP2	8.78	121.24	110.70
36	1	644	G	N1-C2-N3	8.78	129.17	123.90
85	5	2659	G	N9-C4-C5	-8.78	101.89	105.40
36	1	613	G	C8-N9-C4	-8.78	102.89	106.40
36	1	1483	G	C6-N1-C2	-8.78	119.83	125.10
80	6	1091	A	OP1-P-OP2	8.78	132.76	119.60
85	5	3202	G	C6-N1-C2	-8.78	119.83	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	730	C	C2-N3-C4	-8.78	115.51	119.90
36	1	1471	U	C2-N3-C4	-8.78	121.73	127.00
36	1	2684	C	C6-N1-C2	8.78	123.81	120.30
36	1	2833	A	C5-C6-N1	-8.78	113.31	117.70
85	5	3040	A	N1-C6-N6	8.78	123.86	118.60
38	8	39	G	N1-C6-O6	-8.78	114.63	119.90
1	2	1289	C	N1-C2-O2	8.77	124.16	118.90
1	2	1793	G	C2-N3-C4	8.77	116.29	111.90
36	1	615	U	N3-C2-O2	-8.77	116.06	122.20
36	1	803	C	O5'-P-OP2	-8.77	97.81	105.70
36	1	2689	A	N1-C2-N3	8.77	133.69	129.30
36	1	3028	G	C4-C5-N7	8.77	114.31	110.80
38	4	144	G	N1-C2-N3	8.77	129.16	123.90
80	6	22	A	C5-C6-N1	8.77	122.09	117.70
85	5	1212	A	C6-N1-C2	-8.77	113.34	118.60
85	5	1296	C	N3-C4-N4	8.77	124.14	118.00
85	5	1373	A	O5'-P-OP1	8.77	121.23	110.70
85	5	2689	A	O5'-P-OP2	8.77	121.23	110.70
85	5	2987	A	N9-C4-C5	8.77	109.31	105.80
37	7	24	A	C5-C6-N1	-8.77	113.31	117.70
36	1	436	A	C2-N3-C4	-8.77	106.21	110.60
36	1	1094	U	C5-C6-N1	8.77	127.08	122.70
85	5	1035	G	C5-C6-N1	8.77	115.89	111.50
80	6	125	U	N1-C2-O2	-8.77	116.66	122.80
85	5	575	G	C5-C6-O6	8.77	133.86	128.60
85	5	692	A	O5'-P-OP1	-8.77	97.81	105.70
85	5	2524	A	N7-C8-N9	8.77	118.19	113.80
85	5	3081	C	N1-C2-O2	-8.77	113.64	118.90
85	5	3190	C	C2-N3-C4	-8.77	115.52	119.90
1	2	228	G	N9-C4-C5	-8.77	101.89	105.40
85	5	222	A	O5'-P-OP2	-8.77	97.81	105.70
85	5	2293	C	C6-N1-C2	-8.77	116.79	120.30
85	5	2429	G	C5-C6-O6	8.77	133.86	128.60
36	1	761	A	N1-C2-N3	8.77	133.68	129.30
36	1	867	G	N3-C2-N2	-8.77	113.76	119.90
36	1	1525	G	N7-C8-N9	8.77	117.48	113.10
36	1	1910	A	O5'-P-OP2	-8.77	97.81	105.70
36	1	2822	U	C5-C6-N1	8.77	127.08	122.70
85	5	270	U	N1-C2-N3	-8.77	109.64	114.90
36	1	2393	G	C6-N1-C2	-8.77	119.84	125.10
36	1	2821	C	C6-N1-C2	-8.77	116.79	120.30
85	5	384	A	C6-N1-C2	-8.77	113.34	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2995	A	C4-C5-C6	8.77	121.38	117.00
80	6	386	G	N1-C6-O6	-8.77	114.64	119.90
85	5	1530	U	OP1-P-OP2	8.77	132.75	119.60
85	5	2725	U	N3-C4-O4	8.77	125.53	119.40
85	5	3327	G	C6-N1-C2	8.77	130.36	125.10
36	1	233	C	C2-N3-C4	-8.76	115.52	119.90
1	2	1110	G	C5-C6-O6	8.76	133.86	128.60
36	1	1585	C	N3-C2-O2	8.76	128.03	121.90
36	1	2169	G	C6-C5-N7	8.76	135.66	130.40
36	1	2334	U	C6-N1-C2	8.76	126.26	121.00
36	1	2369	G	N1-C2-N3	8.76	129.16	123.90
80	6	281	G	N1-C6-O6	8.76	125.16	119.90
80	6	1353	U	C2-N1-C1'	-8.76	107.18	117.70
80	6	1566	U	C6-N1-C2	8.76	126.26	121.00
80	6	1662	G	C8-N9-C4	8.76	109.91	106.40
85	5	504	A	C2-N3-C4	-8.76	106.22	110.60
85	5	973	A	C5-C6-N1	-8.76	113.32	117.70
85	5	1197	A	N3-C4-C5	-8.76	120.67	126.80
85	5	1599	G	N7-C8-N9	-8.76	108.72	113.10
85	5	2811	A	N9-C4-C5	8.76	109.31	105.80
85	5	2959	C	OP2-P-O3'	8.76	124.48	105.20
1	2	29	U	C6-N1-C2	8.76	126.26	121.00
1	2	623	A	N1-C6-N6	-8.76	113.34	118.60
36	1	2373	A	C5-C6-N1	-8.76	113.32	117.70
1	2	518	A	C2-N3-C4	-8.76	106.22	110.60
36	1	114	A	N9-C4-C5	-8.76	102.30	105.80
36	1	277	G	C8-N9-C4	-8.76	102.90	106.40
36	1	1060	U	C4-C5-C6	-8.76	114.44	119.70
36	1	1126	G	N1-C6-O6	8.76	125.16	119.90
85	5	157	A	N9-C4-C5	8.76	109.30	105.80
85	5	391	A	C5-C6-N6	8.76	130.71	123.70
36	1	3065	G	C2-N3-C4	-8.76	107.52	111.90
80	6	1299	G	C4-C5-C6	8.76	124.06	118.80
85	5	292	U	C6-N1-C2	8.76	126.26	121.00
85	5	3049	A	C8-N9-C4	8.76	109.31	105.80
37	7	103	A	C4-C5-C6	-8.76	112.62	117.00
85	5	1454	A	C2-N3-C4	-8.76	106.22	110.60
85	5	3330	A	N9-C4-C5	8.76	109.30	105.80
85	5	2874	G	N1-C2-N2	-8.76	108.32	116.20
1	2	1771	G	C5-C6-N1	-8.76	107.12	111.50
36	1	1326	A	C6-N1-C2	-8.76	113.35	118.60
36	1	1514	G	N1-C6-O6	8.76	125.15	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2095	G	C4-C5-C6	-8.76	113.55	118.80
36	1	2628	A	N7-C8-N9	8.76	118.18	113.80
85	5	2860	U	C5-C6-N1	-8.76	118.32	122.70
37	7	53	U	N3-C2-O2	-8.76	116.07	122.20
36	1	3181	C	O5'-P-OP2	-8.76	97.82	105.70
38	4	116	G	O5'-P-OP2	-8.76	97.82	105.70
80	6	872	G	C4-C5-C6	8.76	124.05	118.80
85	5	61	A	N9-C4-C5	8.76	109.30	105.80
85	5	295	A	C5-N7-C8	-8.76	99.52	103.90
85	5	2140	U	C6-N1-C2	-8.76	115.75	121.00
85	5	2716	U	N3-C2-O2	-8.76	116.07	122.20
85	5	2960	C	C5-C6-N1	-8.76	116.62	121.00
1	2	776	A	C2-N3-C4	8.75	114.98	110.60
36	1	116	A	O5'-P-OP2	8.75	121.20	110.70
36	1	1124	U	C4-C5-C6	-8.75	114.45	119.70
36	1	1355	A	N7-C8-N9	-8.75	109.42	113.80
36	1	1675	G	C5-C6-O6	-8.75	123.35	128.60
36	1	1747	G	N3-C4-N9	-8.75	120.75	126.00
36	1	2943	G	C8-N9-C4	-8.75	102.90	106.40
85	5	1472	U	N3-C4-O4	-8.75	113.27	119.40
80	6	107	C	C6-N1-C2	8.75	123.80	120.30
80	6	1226	A	C2-N3-C4	8.75	114.98	110.60
85	5	342	A	C8-N9-C4	-8.75	102.30	105.80
85	5	2124	G	N3-C4-N9	-8.75	120.75	126.00
85	5	3198	U	C4-C5-C6	-8.75	114.45	119.70
1	2	153	G	C5-C6-O6	8.75	133.85	128.60
36	1	403	C	C5-C4-N4	8.75	126.33	120.20
36	1	322	U	N3-C2-O2	-8.75	116.08	122.20
36	1	2212	C	N3-C2-O2	8.75	128.03	121.90
36	1	2429	G	C8-N9-C4	-8.75	102.90	106.40
36	1	3110	C	OP2-P-O3'	8.75	124.45	105.20
36	1	3335	A	C5-C6-N1	8.75	122.08	117.70
80	6	239	C	O5'-P-OP2	8.75	121.20	110.70
36	1	2995	A	C5-C6-N1	-8.75	113.33	117.70
80	6	19	A	C8-N9-C4	8.75	109.30	105.80
80	6	444	C	N1-C2-O2	8.75	124.15	118.90
80	6	1300	A	N1-C2-N3	8.75	133.68	129.30
85	5	168	U	C5-C4-O4	8.75	131.15	125.90
85	5	787	G	C5-N7-C8	8.75	108.67	104.30
85	5	846	A	N1-C2-N3	8.75	133.68	129.30
85	5	2129	U	C2-N3-C4	-8.75	121.75	127.00
37	7	63	A	OP1-P-OP2	-8.75	106.47	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2624	G	C6-C5-N7	-8.75	125.15	130.40
85	5	3021	A	C8-N9-C4	-8.75	102.30	105.80
85	5	3299	A	N1-C6-N6	-8.75	113.35	118.60
36	1	795	G	N1-C6-O6	8.75	125.15	119.90
36	1	1727	G	N3-C2-N2	8.75	126.02	119.90
36	1	2608	G	C5-C6-N1	-8.75	107.13	111.50
1	2	1612	G	N9-C4-C5	8.75	108.90	105.40
36	1	2893	C	N1-C2-O2	8.75	124.15	118.90
36	1	3102	G	N9-C4-C5	8.75	108.90	105.40
36	1	3295	A	C5-C6-N1	8.75	122.07	117.70
80	6	346	G	C8-N9-C4	-8.75	102.90	106.40
85	5	498	A	C5-N7-C8	-8.75	99.53	103.90
85	5	2590	A	N1-C6-N6	8.75	123.85	118.60
85	5	3195	U	N1-C2-N3	-8.75	109.65	114.90
37	7	44	C	N3-C2-O2	8.75	128.02	121.90
1	2	724	C	N3-C2-O2	-8.74	115.78	121.90
36	1	193	C	C5-C4-N4	-8.74	114.08	120.20
36	1	924	G	N1-C2-N2	-8.74	108.33	116.20
36	1	1305	U	C5-C4-O4	8.74	131.15	125.90
36	1	2991	A	N3-C4-C5	8.74	132.92	126.80
38	4	111	A	N7-C8-N9	8.74	118.17	113.80
38	4	130	C	N3-C2-O2	8.74	128.02	121.90
80	6	985	G	C2-N3-C4	-8.74	107.53	111.90
85	5	202	G	N3-C4-C5	8.74	132.97	128.60
85	5	2786	G	O5'-P-OP1	8.74	121.19	110.70
1	2	1647	C	OP1-P-OP2	-8.74	106.49	119.60
36	1	1527	C	N1-C2-O2	8.74	124.14	118.90
36	1	1664	G	N3-C4-C5	8.74	132.97	128.60
36	1	1886	A	C5-C6-N6	8.74	130.69	123.70
36	1	2331	C	O5'-P-OP1	-8.74	97.83	105.70
36	1	2974	U	N3-C4-O4	8.74	125.52	119.40
85	5	377	A	C8-N9-C4	-8.74	102.30	105.80
85	5	787	G	C5-C6-O6	8.74	133.84	128.60
85	5	1498	A	N1-C2-N3	-8.74	124.93	129.30
85	5	1503	A	N9-C4-C5	-8.74	102.30	105.80
85	5	2372	A	O5'-P-OP2	-8.74	97.83	105.70
85	5	2408	U	N1-C2-O2	-8.74	116.68	122.80
85	5	3228	C	N1-C2-O2	8.74	124.14	118.90
1	2	803	U	C5-C6-N1	8.74	127.07	122.70
36	1	934	G	C4-C5-N7	8.74	114.30	110.80
36	1	2727	A	C4-C5-N7	-8.74	106.33	110.70
85	5	415	G	C6-N1-C2	-8.74	119.86	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3324	C	C4-C5-C6	8.74	121.77	117.40
36	1	1461	A	C4-C5-N7	8.74	115.07	110.70
36	1	2787	G	OP1-P-O3'	8.74	124.43	105.20
80	6	942	G	C5-N7-C8	-8.74	99.93	104.30
36	1	2915	U	N1-C2-O2	-8.74	116.68	122.80
80	6	885	G	N3-C2-N2	-8.74	113.78	119.90
85	5	255	A	N1-C6-N6	8.74	123.84	118.60
85	5	319	A	C5-C6-N1	-8.74	113.33	117.70
85	5	851	C	N1-C2-O2	-8.74	113.66	118.90
85	5	3299	A	C6-N1-C2	-8.74	113.36	118.60
38	8	56	G	C2-N3-C4	-8.74	107.53	111.90
1	2	161	U	C5-C6-N1	-8.74	118.33	122.70
36	1	863	C	N3-C4-C5	8.74	125.39	121.90
36	1	2525	G	C6-N1-C2	-8.74	119.86	125.10
80	6	356	G	N3-C4-C5	-8.74	124.23	128.60
80	6	765	G	N3-C2-N2	-8.74	113.78	119.90
80	6	1017	U	OP1-P-OP2	8.74	132.71	119.60
85	5	403	C	C5-C4-N4	-8.74	114.08	120.20
36	1	323	A	C6-N1-C2	-8.74	113.36	118.60
36	1	708	G	C2-N3-C4	-8.74	107.53	111.90
80	6	522	U	C5-C6-N1	-8.74	118.33	122.70
85	5	60	A	C4-C5-N7	-8.74	106.33	110.70
85	5	679	U	N1-C2-N3	8.74	120.14	114.90
38	8	2	A	N1-C2-N3	8.74	133.67	129.30
85	5	212	G	C5-C6-N1	8.74	115.87	111.50
85	5	1515	A	C5-N7-C8	-8.74	99.53	103.90
85	5	2861	U	N1-C2-O2	-8.74	116.69	122.80
85	5	3140	G	N3-C4-C5	-8.74	124.23	128.60
1	2	1653	G	C5-C6-N1	-8.73	107.13	111.50
36	1	1183	C	C2-N3-C4	-8.73	115.53	119.90
36	1	2275	A	O5'-P-OP1	-8.73	97.84	105.70
36	1	2675	C	C4-C5-C6	8.73	121.77	117.40
80	6	273	G	C4-C5-N7	8.73	114.29	110.80
80	6	297	U	N3-C4-C5	-8.73	109.36	114.60
80	6	1670	G	C5-C6-N1	-8.73	107.13	111.50
85	5	1077	U	C5-C4-O4	-8.73	120.66	125.90
85	5	1089	G	O5'-P-OP1	-8.73	97.84	105.70
85	5	1524	A	N1-C2-N3	8.73	133.67	129.30
43	16	169	ASP	CB-CG-OD1	-8.73	110.44	118.30
85	5	1749	A	N1-C6-N6	8.73	123.84	118.60
37	7	40	C	C6-N1-C2	-8.73	116.81	120.30
36	1	845	G	C5-C6-O6	8.73	133.84	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	993	G	N3-C4-C5	-8.73	124.23	128.60
36	1	1002	A	N3-C4-C5	8.73	132.91	126.80
36	1	1137	C	O5'-P-OP2	-8.73	97.84	105.70
85	5	787	G	N9-C4-C5	8.73	108.89	105.40
85	5	2752	U	C6-N1-C2	-8.73	115.76	121.00
37	7	43	U	N3-C2-O2	-8.73	116.09	122.20
36	1	1318	A	C5-C6-N6	8.73	130.68	123.70
36	1	1929	G	C8-N9-C4	-8.73	102.91	106.40
36	1	2301	U	C5-C6-N1	8.73	127.07	122.70
80	6	315	A	C5-C6-N6	-8.73	116.72	123.70
85	5	2784	G	N1-C2-N3	8.73	129.14	123.90
85	5	2890	A	C5-C6-N6	8.73	130.68	123.70
38	8	17	A	OP1-P-OP2	-8.73	106.50	119.60
1	2	1107	A	N3-C4-C5	8.73	132.91	126.80
36	1	1697	A	C2-N3-C4	-8.73	106.24	110.60
36	1	2632	G	C5-C6-O6	-8.73	123.36	128.60
85	5	917	A	C4-C5-N7	8.73	115.06	110.70
1	2	1274	G	C2-N3-C4	-8.73	107.54	111.90
36	1	2730	G	C2-N3-C4	-8.73	107.54	111.90
36	1	3142	A	C6-N1-C2	-8.73	113.36	118.60
85	5	397	A	N9-C4-C5	8.73	109.29	105.80
37	3	95	A	N1-C2-N3	8.73	133.66	129.30
80	6	1676	U	N3-C4-O4	8.73	125.51	119.40
85	5	1099	A	C2-N3-C4	-8.73	106.24	110.60
85	5	1347	U	C5-C4-O4	8.73	131.14	125.90
85	5	2838	A	O5'-P-OP1	8.73	121.17	110.70
85	5	2726	C	N1-C2-N3	8.73	125.31	119.20
36	1	717	C	N3-C2-O2	-8.72	115.79	121.90
36	1	919	U	O5'-P-OP2	-8.72	97.85	105.70
36	1	2815	G	C2-N3-C4	-8.72	107.54	111.90
36	1	3101	G	C4-C5-N7	-8.72	107.31	110.80
80	6	1629	G	C5-C6-O6	8.72	133.84	128.60
38	4	128	U	N3-C4-O4	-8.72	113.29	119.40
85	5	678	G	N1-C2-N3	8.72	129.13	123.90
85	5	1373	A	OP2-P-O3'	8.72	124.39	105.20
85	5	2254	U	C5-C6-N1	-8.72	118.34	122.70
85	5	2758	A	N7-C8-N9	8.72	118.16	113.80
1	2	196	G	C5-C6-N1	8.72	115.86	111.50
36	1	806	A	C4-C5-N7	8.72	115.06	110.70
36	1	2934	A	N1-C2-N3	8.72	133.66	129.30
85	5	1602	A	O5'-P-OP2	8.72	121.17	110.70
1	2	217	A	C6-N1-C2	8.72	123.83	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	102	C	N3-C2-O2	8.72	128.00	121.90
36	1	1152	G	C6-N1-C2	-8.72	119.87	125.10
36	1	3320	A	N9-C4-C5	8.72	109.29	105.80
85	5	3312	U	C2-N3-C4	8.72	132.23	127.00
85	5	367	A	N1-C6-N6	8.72	123.83	118.60
36	1	514	G	C2-N3-C4	-8.72	107.54	111.90
36	1	1003	A	OP1-P-OP2	-8.72	106.52	119.60
36	1	2138	A	OP1-P-OP2	8.72	132.68	119.60
36	1	3322	A	N9-C4-C5	-8.72	102.31	105.80
36	1	2408	U	O5'-P-OP1	-8.72	97.86	105.70
36	1	2702	A	C4-C5-C6	8.72	121.36	117.00
36	1	2929	C	N3-C2-O2	-8.72	115.80	121.90
80	6	359	A	N3-C4-C5	8.72	132.90	126.80
85	5	671	U	C6-N1-C2	8.72	126.23	121.00
36	1	3234	A	C5-C6-N6	-8.72	116.73	123.70
85	5	1117	G	C5-N7-C8	-8.72	99.94	104.30
85	5	1410	U	C4-C5-C6	8.72	124.93	119.70
85	5	2180	G	C2-N3-C4	-8.72	107.54	111.90
85	5	3101	G	C2-N3-C4	8.72	116.26	111.90
85	5	3112	G	C5-N7-C8	-8.72	99.94	104.30
1	2	111	U	C6-N1-C2	-8.71	115.77	121.00
36	1	77	A	C8-N9-C4	-8.72	102.31	105.80
36	1	391	A	N1-C6-N6	-8.71	113.37	118.60
85	5	1113	G	N3-C2-N2	-8.72	113.80	119.90
85	5	2199	G	N7-C8-N9	8.72	117.46	113.10
36	1	2552	C	O5'-P-OP2	8.71	121.16	110.70
80	6	466	U	C5-C4-O4	8.71	131.13	125.90
85	5	2217	U	N3-C4-O4	8.71	125.50	119.40
85	5	3182	G	N7-C8-N9	-8.71	108.74	113.10
85	5	3200	G	C6-C5-N7	-8.71	125.17	130.40
37	7	28	C	N1-C2-N3	8.71	125.30	119.20
36	1	3067	C	C5-C4-N4	8.71	126.30	120.20
80	6	704	C	C2-N3-C4	8.71	124.26	119.90
85	5	220	G	O5'-P-OP1	-8.71	97.86	105.70
36	1	5	G	C2-N3-C4	-8.71	107.55	111.90
36	1	2639	G	C6-C5-N7	-8.71	125.17	130.40
36	1	3037	U	N3-C4-O4	8.71	125.50	119.40
80	6	40	A	C8-N9-C4	-8.71	102.31	105.80
85	5	257	U	C6-N1-C2	-8.71	115.77	121.00
85	5	973	A	OP1-P-OP2	-8.71	106.53	119.60
37	3	40	C	N1-C2-O2	-8.71	113.67	118.90
37	3	114	U	C5-C6-N1	-8.71	118.34	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	163	C	C6-N1-C2	-8.71	116.82	120.30
85	5	932	U	C5-C4-O4	-8.71	120.67	125.90
85	5	1009	A	C8-N9-C4	-8.71	102.31	105.80
85	5	1733	G	N3-C4-N9	-8.71	120.77	126.00
85	5	1397	C	C6-N1-C2	-8.71	116.82	120.30
85	5	1695	U	N3-C2-O2	-8.71	116.10	122.20
85	5	2952	G	C8-N9-C4	-8.71	102.92	106.40
38	8	21	C	N1-C2-O2	8.71	124.13	118.90
52	m6	19	LEU	CB-CG-CD1	-8.71	96.19	111.00
36	1	580	C	N3-C4-C5	-8.71	118.42	121.90
36	1	1138	U	C5-C4-O4	-8.71	120.67	125.90
36	1	2863	G	C5-C6-O6	-8.71	123.38	128.60
1	2	1444	C	N3-C4-N4	-8.71	111.91	118.00
36	1	824	C	C2-N3-C4	-8.71	115.55	119.90
36	1	2879	C	N1-C2-O2	-8.71	113.67	118.90
80	6	405	C	N3-C4-C5	8.71	125.38	121.90
80	6	1788	G	N1-C2-N3	8.71	129.12	123.90
85	5	591	G	C8-N9-C4	8.71	109.88	106.40
85	5	756	U	N1-C2-N3	8.71	120.12	114.90
85	5	1883	A	C4-C5-N7	8.71	115.05	110.70
85	5	3361	G	N1-C6-O6	8.71	125.12	119.90
36	1	1416	C	C6-N1-C2	8.71	123.78	120.30
36	1	590	G	C5-N7-C8	-8.70	99.95	104.30
36	1	2430	A	N7-C8-N9	8.71	118.15	113.80
36	1	2609	A	C4-C5-N7	-8.70	106.35	110.70
36	1	2674	A	N9-C4-C5	8.71	109.28	105.80
36	1	3062	G	OP1-P-OP2	-8.71	106.54	119.60
38	4	110	C	C2-N3-C4	-8.71	115.55	119.90
49	M3	157	ARG	NE-CZ-NH1	-8.71	115.95	120.30
85	5	2663	G	N7-C8-N9	8.70	117.45	113.10
85	5	2820	A	C4-C5-N7	8.71	115.05	110.70
85	5	2953	U	C6-N1-C2	-8.70	115.78	121.00
36	1	1899	G	C6-N1-C2	-8.70	119.88	125.10
85	5	1628	C	N1-C2-O2	8.70	124.12	118.90
85	5	2135	U	OP2-P-O3'	-8.70	86.05	105.20
36	1	598	A	C6-N1-C2	-8.70	113.38	118.60
36	1	652	G	OP1-P-O3'	8.70	124.34	105.20
25	d3	13	ARG	NE-CZ-NH1	-8.70	115.95	120.30
85	5	174	C	C5-C6-N1	-8.70	116.65	121.00
85	5	205	C	N1-C2-O2	-8.70	113.68	118.90
85	5	221	A	C5-C6-N6	8.70	130.66	123.70
85	5	1202	A	C4-C5-C6	8.70	121.35	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2851	A	C6-C5-N7	-8.70	126.21	132.30
44	17	110	ARG	NE-CZ-NH2	-8.70	115.95	120.30
1	2	312	A	C4-C5-C6	8.70	121.35	117.00
36	1	627	U	C2-N3-C4	8.70	132.22	127.00
36	1	1134	G	N3-C2-N2	-8.70	113.81	119.90
36	1	1615	C	C6-N1-C2	8.70	123.78	120.30
37	3	119	U	N3-C4-O4	-8.70	113.31	119.40
38	4	38	U	C2-N1-C1'	8.70	128.14	117.70
85	5	236	G	OP1-P-OP2	-8.70	106.55	119.60
85	5	2797	C	N3-C4-C5	-8.70	118.42	121.90
1	2	1589	C	N3-C2-O2	-8.70	115.81	121.90
1	2	1592	U	N1-C2-O2	-8.70	116.71	122.80
36	1	323	A	N1-C2-N3	8.70	133.65	129.30
36	1	426	G	C4-C5-N7	-8.70	107.32	110.80
36	1	1079	A	C4-C5-C6	8.70	121.35	117.00
36	1	1665	C	C6-N1-C2	-8.70	116.82	120.30
85	5	189	G	C6-N1-C2	-8.70	119.88	125.10
85	5	887	G	OP1-P-OP2	-8.70	106.55	119.60
85	5	2641	U	C5-C6-N1	8.70	127.05	122.70
36	1	1045	C	N3-C2-O2	8.69	127.99	121.90
85	5	421	G	C2-N3-C4	-8.69	107.55	111.90
85	5	592	A	C6-C5-N7	-8.69	126.21	132.30
85	5	800	G	C4-C5-N7	8.70	114.28	110.80
85	5	2559	U	C4-C5-C6	8.69	124.92	119.70
1	2	1500	U	N1-C2-N3	8.69	120.11	114.90
36	1	702	C	N3-C2-O2	-8.69	115.82	121.90
36	1	1741	A	C2-N3-C4	-8.69	106.25	110.60
36	1	1053	A	C8-N9-C4	8.69	109.28	105.80
36	1	1899	G	N9-C4-C5	8.69	108.88	105.40
37	3	82	G	N1-C2-N2	-8.69	108.38	116.20
80	6	1645	G	C8-N9-C4	-8.69	102.92	106.40
80	6	1782	A	C8-N9-C4	-8.69	102.32	105.80
38	4	145	U	C2-N3-C4	-8.69	121.79	127.00
85	5	1407	A	C6-C5-N7	-8.69	126.22	132.30
85	5	2535	A	C8-N9-C4	8.69	109.28	105.80
36	1	380	U	N1-C2-N3	8.69	120.11	114.90
36	1	2175	U	O5'-P-OP1	-8.69	97.88	105.70
85	5	1296	C	C5-C4-N4	-8.69	114.12	120.20
85	5	2900	A	C5-N7-C8	8.69	108.25	103.90
36	1	859	G	C2-N3-C4	-8.69	107.56	111.90
80	6	924	A	N7-C8-N9	8.69	118.14	113.80
85	5	347	G	N9-C4-C5	8.69	108.88	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	614	C	N3-C4-N4	-8.69	111.92	118.00
85	5	2155	G	N7-C8-N9	-8.69	108.76	113.10
1	2	581	U	C6-N1-C2	-8.69	115.79	121.00
1	2	607	G	C4-C5-N7	8.69	114.28	110.80
36	1	27	C	C2-N3-C4	-8.69	115.56	119.90
1	2	1115	A	N7-C8-N9	-8.69	109.46	113.80
36	1	683	U	O5'-P-OP2	-8.69	97.88	105.70
36	1	769	G	OP1-P-OP2	8.69	132.63	119.60
85	5	2197	C	N3-C4-C5	-8.69	118.42	121.90
37	7	73	C	C6-N1-C2	-8.69	116.83	120.30
36	1	2995	A	C4-C5-C6	8.69	121.34	117.00
85	5	231	G	N1-C6-O6	8.69	125.11	119.90
85	5	1739	U	N3-C4-C5	-8.69	109.39	114.60
1	2	168	A	N1-C6-N6	8.68	123.81	118.60
1	2	1294	U	N1-C2-O2	8.68	128.88	122.80
36	1	909	G	N9-C4-C5	-8.68	101.93	105.40
36	1	1846	C	N3-C4-C5	-8.68	118.43	121.90
85	5	440	A	N1-C6-N6	8.68	123.81	118.60
36	1	1168	U	N3-C2-O2	-8.68	116.12	122.20
36	1	1825	G	N1-C6-O6	8.68	125.11	119.90
85	5	114	A	C2-N3-C4	-8.68	106.26	110.60
85	5	599	C	C5-C6-N1	-8.68	116.66	121.00
85	5	780	A	C5-C6-N1	-8.68	113.36	117.70
38	8	62	C	C2-N3-C4	8.68	124.24	119.90
80	6	176	C	C6-N1-C2	-8.68	116.83	120.30
85	5	2296	A	C6-N1-C2	-8.68	113.39	118.60
85	5	2843	U	C5-C4-O4	8.68	131.11	125.90
85	5	3167	A	N9-C4-C5	8.68	109.27	105.80
36	1	12	A	O5'-P-OP1	-8.68	97.89	105.70
36	1	274	G	N1-C6-O6	8.68	125.11	119.90
36	1	1109	U	C5-C4-O4	-8.68	120.69	125.90
85	5	3241	G	N1-C2-N2	-8.68	108.39	116.20
36	1	322	U	OP1-P-OP2	-8.68	106.58	119.60
36	1	1105	A	N1-C2-N3	8.68	133.64	129.30
36	1	1590	G	C5-C6-O6	8.68	133.81	128.60
36	1	2993	G	N3-C4-C5	-8.68	124.26	128.60
36	1	3344	A	C4-C5-N7	8.68	115.04	110.70
85	5	1303	A	C6-C5-N7	-8.68	126.22	132.30
36	1	1380	G	C5-C6-N1	-8.68	107.16	111.50
36	1	1929	G	O5'-P-OP2	-8.68	97.89	105.70
80	6	173	A	C5-N7-C8	-8.68	99.56	103.90
85	5	635	G	N3-C2-N2	-8.68	113.82	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1634	G	C4-C5-N7	8.68	114.27	110.80
85	5	854	G	N1-C2-N3	8.68	129.11	123.90
36	1	239	G	C5-N7-C8	-8.68	99.96	104.30
85	5	287	G	C5-C6-N1	8.68	115.84	111.50
36	1	1222	G	C5-N7-C8	8.68	108.64	104.30
36	1	2954	U	N3-C4-C5	-8.68	109.39	114.60
36	1	2993	G	C2-N3-C4	8.68	116.24	111.90
36	1	3241	G	C5-C6-O6	8.68	133.81	128.60
85	5	1421	G	N3-C4-C5	8.68	132.94	128.60
36	1	3216	G	N1-C2-N3	8.68	129.10	123.90
80	6	31	C	N3-C4-C5	-8.68	118.43	121.90
80	6	77	U	O5'-P-OP1	-8.68	97.89	105.70
85	5	2326	A	C4-C5-N7	-8.68	106.36	110.70
85	5	1417	G	C5-C6-N1	8.68	115.84	111.50
85	5	3103	A	C5-N7-C8	-8.68	99.56	103.90
36	1	21	G	O5'-P-OP1	8.67	121.11	110.70
36	1	1734	G	N9-C4-C5	-8.67	101.93	105.40
36	1	2888	U	N3-C4-C5	8.67	119.80	114.60
80	6	476	U	C6-N1-C2	-8.67	115.80	121.00
80	6	971	A	O5'-P-OP1	-8.67	97.89	105.70
85	5	283	G	C2-N3-C4	8.67	116.24	111.90
85	5	355	A	N7-C8-N9	8.67	118.14	113.80
85	5	787	G	N1-C2-N3	8.67	129.10	123.90
85	5	431	U	N1-C2-O2	-8.67	116.73	122.80
85	5	759	U	N3-C2-O2	8.67	128.27	122.20
36	1	621	A	C4-C5-C6	-8.67	112.67	117.00
36	1	854	G	N1-C6-O6	8.67	125.10	119.90
36	1	1294	A	C5-C6-N1	8.67	122.03	117.70
36	1	1373	A	N1-C2-N3	8.67	133.64	129.30
36	1	1435	A	C2-N3-C4	8.67	114.94	110.60
36	1	1497	C	C2-N3-C4	-8.67	115.56	119.90
85	5	3190	C	C5-C4-N4	-8.67	114.13	120.20
36	1	2526	C	O5'-P-OP2	-8.67	97.90	105.70
36	1	2737	C	N3-C2-O2	8.67	127.97	121.90
36	1	3289	G	N3-C2-N2	8.67	125.97	119.90
80	6	249	U	N3-C2-O2	-8.67	116.13	122.20
85	5	268	A	N9-C4-C5	8.67	109.27	105.80
85	5	2417	U	C5-C6-N1	8.67	127.03	122.70
36	1	77	A	C2-N3-C4	-8.67	106.27	110.60
36	1	1634	G	N7-C8-N9	8.67	117.43	113.10
36	1	2913	C	N3-C2-O2	-8.67	115.83	121.90
36	1	3289	G	C2-N3-C4	8.67	116.23	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	99	A	N9-C4-C5	-8.67	102.33	105.80
85	5	226	C	C5-C6-N1	8.67	125.33	121.00
85	5	864	G	C4-C5-N7	8.67	114.27	110.80
85	5	986	U	C5-C4-O4	8.67	131.10	125.90
85	5	2741	C	N3-C4-N4	8.67	124.07	118.00
85	5	2808	A	N1-C2-N3	8.67	133.63	129.30
85	5	3009	G	C6-C5-N7	-8.67	125.20	130.40
36	1	370	U	O5'-P-OP2	-8.66	97.90	105.70
80	6	427	C	O5'-P-OP2	-8.66	97.90	105.70
80	6	1184	A	C5-C6-N1	-8.66	113.37	117.70
38	8	2	A	O5'-P-OP2	-8.66	97.90	105.70
1	2	886	U	C5-C6-N1	8.66	127.03	122.70
36	1	754	G	N1-C6-O6	8.66	125.10	119.90
36	1	1136	A	O5'-P-OP2	-8.66	97.90	105.70
36	1	1289	G	N9-C4-C5	-8.66	101.94	105.40
80	6	966	A	C8-N9-C4	8.66	109.27	105.80
85	5	353	G	N1-C6-O6	-8.66	114.70	119.90
85	5	1273	A	C5-C6-N1	-8.66	113.37	117.70
85	5	1399	A	C4-C5-N7	8.66	115.03	110.70
85	5	1727	G	N1-C6-O6	-8.66	114.70	119.90
85	5	2142	A	C8-N9-C4	-8.66	102.33	105.80
85	5	2781	U	C5-C6-N1	-8.66	118.37	122.70
1	2	338	C	C4-C5-C6	8.66	121.73	117.40
36	1	342	A	N9-C4-C5	8.66	109.26	105.80
36	1	815	G	N9-C4-C5	8.66	108.86	105.40
36	1	1286	A	C8-N9-C4	8.66	109.26	105.80
36	1	958	C	C6-N1-C2	-8.66	116.84	120.30
36	1	1145	G	N1-C2-N3	8.66	129.10	123.90
36	1	1424	C	N1-C2-N3	8.66	125.26	119.20
36	1	1514	G	C6-C5-N7	-8.66	125.20	130.40
85	5	990	U	O5'-P-OP2	-8.66	97.91	105.70
85	5	1503	A	C2-N3-C4	-8.66	106.27	110.60
85	5	1769	G	OP1-P-OP2	-8.66	106.61	119.60
85	5	2287	C	C5-C6-N1	8.66	125.33	121.00
85	5	2936	A	C6-N1-C2	-8.66	113.40	118.60
37	3	36	C	C4-C5-C6	-8.66	113.07	117.40
1	2	1369	G	C8-N9-C4	8.66	109.86	106.40
36	1	941	G	C8-N9-C4	-8.66	102.94	106.40
36	1	952	A	N1-C6-N6	-8.66	113.41	118.60
36	1	1511	U	C5-C6-N1	8.66	127.03	122.70
80	6	190	C	N1-C2-O2	8.66	124.09	118.90
85	5	53	G	N1-C2-N3	8.66	129.09	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1754	A	OP2-P-O3'	-8.66	86.16	105.20
85	5	1375	G	C6-C5-N7	-8.66	125.21	130.40
1	2	284	G	C2-N3-C4	-8.65	107.57	111.90
1	2	1588	G	C5-C6-N1	-8.65	107.17	111.50
36	1	32	U	OP2-P-O3'	8.65	124.24	105.20
36	1	2124	G	C6-C5-N7	-8.65	125.21	130.40
80	6	1399	C	C2-N3-C4	8.65	124.23	119.90
85	5	1832	C	N3-C4-C5	8.65	125.36	121.90
85	5	128	G	N1-C6-O6	-8.65	114.71	119.90
85	5	394	G	O5'-P-OP1	-8.65	97.91	105.70
85	5	1402	C	N3-C4-N4	8.65	124.06	118.00
85	5	2707	C	OP1-P-OP2	8.65	132.58	119.60
85	5	3361	G	C4-C5-C6	8.65	123.99	118.80
1	2	1583	A	C2-N3-C4	-8.65	106.27	110.60
36	1	1391	C	C5-C6-N1	-8.65	116.67	121.00
36	1	1440	G	C6-C5-N7	-8.65	125.21	130.40
36	1	1603	A	O5'-P-OP1	8.65	121.08	110.70
36	1	2152	A	N1-C6-N6	-8.65	113.41	118.60
36	1	2169	G	C8-N9-C4	8.65	109.86	106.40
80	6	96	G	N1-C2-N3	8.65	129.09	123.90
80	6	228	G	C8-N9-C4	8.65	109.86	106.40
80	6	518	A	N1-C2-N3	8.65	133.62	129.30
80	6	578	U	N3-C2-O2	8.65	128.26	122.20
80	6	777	C	N1-C2-N3	8.65	125.26	119.20
80	6	1128	C	C6-N1-C2	-8.65	116.84	120.30
85	5	63	A	C8-N9-C4	8.65	109.26	105.80
85	5	731	U	N3-C2-O2	-8.65	116.14	122.20
85	5	808	A	C2-N3-C4	8.65	114.92	110.60
85	5	1451	C	C6-N1-C2	8.65	123.76	120.30
85	5	2949	U	C5-C6-N1	8.65	127.03	122.70
85	5	2972	G	OP1-P-OP2	-8.65	106.62	119.60
36	1	2197	C	C2-N3-C4	-8.65	115.58	119.90
36	1	2625	C	N3-C4-N4	8.65	124.05	118.00
85	5	498	A	N1-C2-N3	8.65	133.62	129.30
85	5	839	C	O5'-P-OP2	-8.65	97.92	105.70
85	5	2315	G	N7-C8-N9	8.65	117.42	113.10
37	7	109	G	N1-C6-O6	8.65	125.09	119.90
36	1	785	G	C4-C5-N7	8.65	114.26	110.80
36	1	2403	G	N1-C2-N3	8.65	129.09	123.90
36	1	2843	U	C5-C6-N1	-8.65	118.38	122.70
36	1	3109	G	C2-N3-C4	8.65	116.22	111.90
80	6	390	G	C4-C5-N7	8.65	114.26	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	386	A	C5-N7-C8	8.65	108.22	103.90
1	2	581	U	C2-N1-C1'	8.64	128.07	117.70
36	1	504	A	C6-N1-C2	-8.64	113.41	118.60
1	2	1276	U	N1-C2-O2	-8.64	116.75	122.80
36	1	1318	A	O5'-P-OP1	-8.64	97.92	105.70
36	1	1530	U	C6-N1-C2	8.64	126.19	121.00
36	1	2819	A	C2-N3-C4	8.64	114.92	110.60
36	1	2967	A	C6-N1-C2	-8.64	113.41	118.60
37	3	49	G	N9-C4-C5	-8.64	101.94	105.40
85	5	807	A	C5-N7-C8	-8.64	99.58	103.90
85	5	2340	U	N3-C4-C5	8.64	119.79	114.60
36	1	3046	A	C6-C5-N7	-8.64	126.25	132.30
36	1	3128	G	C5-C6-O6	-8.64	123.41	128.60
85	5	513	G	C4-C5-C6	8.64	123.99	118.80
85	5	943	U	N1-C2-N3	8.64	120.09	114.90
85	5	1889	G	C5-N7-C8	-8.64	99.98	104.30
36	1	360	G	C6-C5-N7	-8.64	125.22	130.40
85	5	184	U	C2-N3-C4	-8.64	121.81	127.00
85	5	1434	G	N1-C2-N3	8.64	129.09	123.90
85	5	2997	G	N3-C4-C5	8.64	132.92	128.60
36	1	206	G	N7-C8-N9	8.64	117.42	113.10
36	1	620	U	C5-C4-O4	8.64	131.08	125.90
36	1	898	U	C5-C6-N1	8.64	127.02	122.70
85	5	1177	G	C6-N1-C2	-8.64	119.92	125.10
85	5	2735	U	C5-C4-O4	8.64	131.08	125.90
85	5	3245	A	C6-N1-C2	8.64	123.78	118.60
36	1	1655	G	C5-C6-O6	-8.64	123.42	128.60
80	6	1120	U	N3-C4-C5	-8.64	109.42	114.60
1	2	1083	G	N1-C2-N3	8.64	129.08	123.90
36	1	226	C	N3-C4-N4	8.64	124.05	118.00
36	1	304	G	N9-C4-C5	8.64	108.86	105.40
36	1	1334	U	N1-C2-O2	-8.64	116.75	122.80
36	1	2988	C	N3-C4-C5	-8.64	118.44	121.90
80	6	334	G	N3-C4-C5	-8.64	124.28	128.60
85	5	200	C	C5-C4-N4	-8.64	114.15	120.20
85	5	1001	G	N9-C4-C5	8.64	108.86	105.40
85	5	1542	G	N1-C6-O6	8.64	125.08	119.90
85	5	1625	A	C8-N9-C4	8.64	109.25	105.80
85	5	3200	G	C8-N9-C4	-8.64	102.94	106.40
85	5	2816	G	N1-C6-O6	8.64	125.08	119.90
1	2	312	A	C6-N1-C2	-8.64	113.42	118.60
1	2	429	G	OP1-P-OP2	-8.64	106.65	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	554	C	N1-C2-O2	8.64	124.08	118.90
36	1	1618	G	N1-C6-O6	-8.64	114.72	119.90
85	5	174	C	N3-C2-O2	-8.64	115.86	121.90
1	2	446	A	C8-N9-C4	-8.63	102.35	105.80
1	2	490	C	C6-N1-C2	-8.63	116.85	120.30
36	1	685	G	C5-N7-C8	8.63	108.62	104.30
36	1	1652	G	O5'-P-OP1	-8.64	97.93	105.70
36	1	2168	A	C5-C6-N6	8.64	130.61	123.70
80	6	975	C	C5-C4-N4	8.64	126.25	120.20
85	5	423	A	N1-C6-N6	8.64	123.78	118.60
85	5	822	G	C2-N3-C4	-8.64	107.58	111.90
36	1	1537	A	C5-C6-N1	8.63	122.02	117.70
36	1	1788	C	N1-C2-O2	8.63	124.08	118.90
36	1	2377	G	N7-C8-N9	8.63	117.42	113.10
85	5	3059	G	C8-N9-C4	-8.63	102.95	106.40
85	5	3187	A	N7-C8-N9	-8.63	109.48	113.80
1	2	1603	C	C5-C6-N1	8.63	125.32	121.00
36	1	868	C	N3-C4-C5	-8.63	118.45	121.90
36	1	2394	G	C6-C5-N7	8.63	135.58	130.40
80	6	359	A	C6-N1-C2	8.63	123.78	118.60
36	1	69	C	N1-C2-O2	-8.63	113.72	118.90
36	1	1760	A	N3-C4-C5	-8.63	120.76	126.80
36	1	2519	A	C6-C5-N7	-8.63	126.26	132.30
36	1	3126	C	C5-C6-N1	8.63	125.31	121.00
37	3	23	A	O5'-P-OP1	-8.63	97.93	105.70
85	5	2389	C	C5-C6-N1	-8.63	116.68	121.00
80	6	373	G	C6-C5-N7	8.63	135.58	130.40
85	5	592	A	C4-C5-N7	8.63	115.02	110.70
85	5	1418	A	C6-C5-N7	-8.63	126.26	132.30
36	1	852	U	C4-C5-C6	8.63	124.88	119.70
36	1	1171	G	OP1-P-OP2	-8.63	106.66	119.60
36	1	2339	C	C2-N3-C4	8.63	124.21	119.90
80	6	46	A	C8-N9-C4	-8.63	102.35	105.80
80	6	109	G	N3-C4-C5	8.63	132.91	128.60
85	5	371	G	C5-C6-N1	-8.63	107.19	111.50
36	1	1467	A	C2-N3-C4	8.63	114.91	110.60
36	1	2238	G	N1-C6-O6	8.63	125.08	119.90
85	5	900	G	N9-C4-C5	8.63	108.85	105.40
85	5	1193	A	N1-C2-N3	8.63	133.61	129.30
85	5	1322	U	OP1-P-OP2	-8.63	106.66	119.60
85	5	1481	A	N1-C2-N3	8.63	133.61	129.30
85	5	1502	C	N3-C4-N4	-8.63	111.96	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3140	G	N9-C4-C5	8.63	108.85	105.40
1	2	32	U	C6-N1-C2	-8.63	115.82	121.00
36	1	313	A	C6-N1-C2	-8.63	113.42	118.60
36	1	2185	G	N1-C2-N3	8.62	129.07	123.90
38	4	4	C	C2-N3-C4	-8.63	115.59	119.90
85	5	963	G	C5-C6-O6	8.62	133.78	128.60
85	5	1149	G	O4'-C1'-N9	8.62	115.10	108.20
85	5	1892	G	N1-C2-N2	8.62	123.96	116.20
85	5	2523	A	C5-C6-N1	8.62	122.01	117.70
1	2	1573	G	N1-C6-O6	-8.62	114.73	119.90
36	1	155	G	C5-C6-N1	8.62	115.81	111.50
36	1	179	C	O5'-P-OP1	8.62	121.05	110.70
36	1	813	G	C5-C6-O6	-8.62	123.43	128.60
36	1	2816	G	O5'-P-OP2	-8.62	97.94	105.70
36	1	3082	C	N1-C2-O2	-8.62	113.73	118.90
36	1	3120	C	N3-C4-C5	8.62	125.35	121.90
80	6	778	G	C2-N3-C4	8.62	116.21	111.90
85	5	542	G	C8-N9-C4	8.62	109.85	106.40
85	5	2282	U	C2-N3-C4	-8.62	121.83	127.00
85	5	3123	A	C8-N9-C4	8.62	109.25	105.80
1	2	1522	G	C8-N9-C4	-8.62	102.95	106.40
36	1	1349	G	N1-C2-N2	8.62	123.96	116.20
36	1	2929	C	C6-N1-C2	-8.62	116.85	120.30
85	5	921	A	OP2-P-O3'	8.62	124.17	105.20
85	5	2647	A	C8-N9-C4	-8.62	102.35	105.80
37	7	44	C	C6-N1-C2	8.62	123.75	120.30
36	1	392	G	N7-C8-N9	8.62	117.41	113.10
80	6	523	G	C5-C6-N1	8.62	115.81	111.50
80	6	1385	G	N7-C8-N9	8.62	117.41	113.10
85	5	1844	C	N3-C2-O2	-8.62	115.87	121.90
85	5	3213	A	N1-C6-N6	-8.62	113.43	118.60
78	q2	88	CYS	CA-CB-SG	-8.62	98.49	114.00
36	1	600	G	N9-C4-C5	-8.62	101.95	105.40
36	1	2366	C	N3-C4-N4	-8.62	111.97	118.00
36	1	3071	U	N1-C2-N3	8.62	120.07	114.90
38	4	18	U	O5'-P-OP1	-8.62	97.95	105.70
80	6	1120	U	N3-C4-O4	8.62	125.43	119.40
85	5	3056	U	N1-C2-O2	-8.62	116.77	122.80
80	6	1014	G	C5-C6-O6	8.61	133.77	128.60
85	5	31	C	N3-C4-N4	-8.62	111.97	118.00
85	5	769	G	N3-C2-N2	-8.62	113.87	119.90
85	5	2295	A	C5-N7-C8	-8.62	99.59	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	623	U	C5-C4-O4	-8.61	120.73	125.90
36	1	940	G	N1-C6-O6	-8.61	114.73	119.90
36	1	1927	G	N1-C2-N3	8.61	129.07	123.90
85	5	407	A	N3-C4-C5	-8.61	120.77	126.80
85	5	1900	A	C5-C6-N6	-8.61	116.81	123.70
85	5	2799	A	O5'-P-OP2	-8.61	97.95	105.70
37	7	72	A	N7-C8-N9	-8.61	109.49	113.80
36	1	2679	A	N9-C4-C5	-8.61	102.36	105.80
36	1	3097	C	N3-C4-C5	8.61	125.34	121.90
80	6	279	G	N1-C6-O6	8.61	125.07	119.90
85	5	1122	U	N1-C2-N3	8.61	120.07	114.90
85	5	1553	U	N3-C4-O4	8.61	125.43	119.40
85	5	1890	U	C6-N1-C2	-8.61	115.83	121.00
85	5	3016	A	C5-C6-N1	-8.61	113.39	117.70
1	2	16	G	N1-C6-O6	-8.61	114.73	119.90
1	2	1506	G	N3-C2-N2	8.61	125.93	119.90
1	2	1756	C	C5-C6-N1	8.61	125.31	121.00
36	1	677	A	N1-C2-N3	8.61	133.60	129.30
36	1	866	A	C5-C6-N6	-8.61	116.81	123.70
36	1	1664	G	C5-C6-N1	-8.61	107.19	111.50
80	6	1336	A	O5'-P-OP1	-8.61	97.95	105.70
85	5	2761	G	C8-N9-C4	8.61	109.84	106.40
85	5	3000	A	C2-N3-C4	-8.61	106.30	110.60
85	5	1426	C	N1-C2-O2	-8.61	113.73	118.90
85	5	2943	G	O5'-P-OP1	8.61	121.03	110.70
38	8	24	G	C2-N3-C4	8.61	116.20	111.90
36	1	1392	G	N1-C2-N3	8.61	129.06	123.90
85	5	23	A	C6-C5-N7	-8.61	126.28	132.30
85	5	89	A	N9-C4-C5	-8.61	102.36	105.80
85	5	640	U	C5-C4-O4	-8.61	120.74	125.90
85	5	2760	C	N3-C2-O2	8.61	127.92	121.90
36	1	218	G	C5-N7-C8	-8.61	100.00	104.30
36	1	281	G	N7-C8-N9	8.61	117.40	113.10
36	1	334	A	OP1-P-OP2	-8.61	106.69	119.60
36	1	660	A	OP1-P-O3'	8.61	124.13	105.20
36	1	789	A	C5-N7-C8	-8.61	99.60	103.90
36	1	1318	A	O5'-P-OP2	-8.61	97.95	105.70
36	1	1839	A	N7-C8-N9	8.61	118.10	113.80
36	1	2556	C	N1-C2-O2	8.61	124.06	118.90
80	6	319	U	N3-C2-O2	8.61	128.22	122.20
80	6	913	G	N1-C6-O6	8.61	125.06	119.90
85	5	157	A	C8-N9-C4	-8.61	102.36	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	708	G	C5-C6-N1	-8.61	107.20	111.50
85	5	1420	C	O5'-P-OP2	-8.61	97.95	105.70
85	5	2572	C	N1-C2-O2	8.61	124.06	118.90
36	1	306	A	C5-C6-N1	-8.60	113.40	117.70
36	1	1104	G	N3-C4-N9	-8.60	120.84	126.00
36	1	2201	G	N9-C4-C5	-8.60	101.96	105.40
36	1	2920	U	C6-N1-C2	8.60	126.16	121.00
36	1	3023	U	N1-C2-O2	8.60	128.82	122.80
36	1	3302	U	C5-C4-O4	8.60	131.06	125.90
38	4	9	A	O5'-P-OP1	8.60	121.02	110.70
85	5	718	G	C5-N7-C8	-8.60	100.00	104.30
85	5	3331	U	N3-C2-O2	8.60	128.22	122.20
38	8	55	U	N3-C4-O4	8.60	125.42	119.40
36	1	2530	G	C5-C6-N1	8.60	115.80	111.50
80	6	1011	G	C6-C5-N7	-8.60	125.24	130.40
85	5	309	U	C5-C4-O4	-8.60	120.74	125.90
85	5	1413	G	N1-C2-N3	8.60	129.06	123.90
85	5	2566	C	O5'-P-OP1	-8.60	97.96	105.70
85	5	2824	G	C5-C6-N1	-8.60	107.20	111.50
85	5	3023	U	C5-C6-N1	8.60	127.00	122.70
38	8	130	C	C5-C4-N4	-8.60	114.18	120.20
85	5	3093	C	N3-C2-O2	8.60	127.92	121.90
1	2	78	A	C6-N1-C2	-8.60	113.44	118.60
1	2	1071	A	C5-C6-N1	8.60	122.00	117.70
36	1	630	A	N1-C6-N6	-8.60	113.44	118.60
36	1	2827	U	C2-N3-C4	-8.60	121.84	127.00
37	3	27	A	C5-N7-C8	-8.60	99.60	103.90
85	5	306	A	O5'-P-OP2	-8.60	97.96	105.70
36	1	278	U	N1-C2-N3	8.60	120.06	114.90
36	1	1310	G	N3-C2-N2	8.60	125.92	119.90
86	18	69	LEU	CA-CB-CG	8.60	135.08	115.30
36	1	2105	G	C5-N7-C8	-8.60	100.00	104.30
38	4	94	C	N1-C2-N3	8.60	125.22	119.20
85	5	368	G	C5-C6-N1	-8.60	107.20	111.50
1	2	1332	G	N1-C6-O6	8.60	125.06	119.90
36	1	392	G	N1-C2-N2	8.60	123.94	116.20
36	1	619	A	C5-C6-N1	-8.60	113.40	117.70
85	5	902	G	N9-C4-C5	-8.60	101.96	105.40
85	5	3169	U	N3-C4-O4	-8.60	113.38	119.40
36	1	906	A	C8-N9-C4	8.60	109.24	105.80
36	1	1755	C	N3-C2-O2	8.60	127.92	121.90
36	1	3147	G	O5'-P-OP2	-8.60	97.97	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3299	A	C2-N3-C4	-8.60	106.30	110.60
37	3	110	G	N7-C8-N9	-8.60	108.80	113.10
80	6	610	G	N1-C6-O6	8.60	125.06	119.90
85	5	2152	A	C4-C5-C6	8.60	121.30	117.00
85	5	2551	U	N3-C4-O4	-8.60	113.38	119.40
85	5	2721	A	C5-C6-N6	8.60	130.58	123.70
85	5	2798	C	O5'-P-OP2	-8.60	97.96	105.70
85	5	3067	C	N3-C4-N4	-8.60	111.98	118.00
37	7	20	A	C5-C6-N6	8.60	130.58	123.70
36	1	2620	G	C5-C6-O6	-8.59	123.44	128.60
1	2	1393	A	C5-C6-N1	-8.59	113.40	117.70
1	2	1448	C	N1-C2-O2	8.59	124.06	118.90
36	1	1429	G	C8-N9-C4	8.59	109.84	106.40
85	5	2950	G	C5-N7-C8	-8.59	100.00	104.30
36	1	3377	G	C4-C5-N7	8.59	114.24	110.80
37	3	8	G	N9-C4-C5	-8.59	101.96	105.40
80	6	1418	G	C4-C5-C6	8.59	123.96	118.80
80	6	521	A	C5-C6-N1	-8.59	113.40	117.70
80	6	1044	U	N3-C4-O4	-8.59	113.39	119.40
80	6	1572	G	N7-C8-N9	8.59	117.40	113.10
80	6	1739	C	C4-C5-C6	8.59	121.70	117.40
85	5	234	G	C5-C6-N1	-8.59	107.20	111.50
85	5	363	G	N1-C2-N3	8.59	129.06	123.90
85	5	963	G	O5'-P-OP1	8.59	121.01	110.70
85	5	1492	G	C4-C5-N7	8.59	114.24	110.80
85	5	1764	U	O5'-P-OP1	-8.59	97.97	105.70
85	5	2325	G	C2-N3-C4	-8.59	107.60	111.90
85	5	2932	U	C5-C6-N1	-8.59	118.40	122.70
85	5	3016	A	C2-N3-C4	-8.59	106.30	110.60
1	2	32	U	N3-C2-O2	-8.59	116.19	122.20
36	1	865	U	C5-C4-O4	8.59	131.05	125.90
36	1	3023	U	N3-C2-O2	-8.59	116.19	122.20
80	6	251	A	O5'-P-OP1	-8.59	97.97	105.70
80	6	587	C	N3-C4-N4	-8.59	111.99	118.00
85	5	655	C	C6-N1-C2	-8.59	116.86	120.30
85	5	2948	C	C6-N1-C2	8.59	123.74	120.30
80	6	653	C	N1-C2-O2	8.59	124.05	118.90
80	6	1682	U	C5-C4-O4	-8.59	120.75	125.90
80	6	1731	A	N1-C6-N6	-8.59	113.45	118.60
85	5	397	A	N3-C4-C5	-8.59	120.79	126.80
85	5	685	G	C2-N3-C4	-8.59	107.61	111.90
85	5	1541	G	C4-C5-C6	-8.59	113.65	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2176	U	C5-C4-O4	-8.59	120.75	125.90
85	5	2974	U	N3-C2-O2	8.59	128.21	122.20
85	5	2120	A	N7-C8-N9	8.59	118.09	113.80
37	7	27	A	C8-N9-C4	-8.59	102.36	105.80
36	1	218	G	C4-C5-N7	8.59	114.23	110.80
36	1	1333	C	N3-C2-O2	-8.59	115.89	121.90
36	1	1537	A	C5-C6-N6	-8.59	116.83	123.70
36	1	1587	A	C8-N9-C4	8.59	109.23	105.80
36	1	1900	A	N1-C6-N6	-8.59	113.45	118.60
36	1	2646	C	C5-C6-N1	-8.59	116.71	121.00
37	7	43	U	C4-C5-C6	8.59	124.85	119.70
36	1	3215	A	C8-N9-C4	-8.59	102.37	105.80
80	6	951	A	N7-C8-N9	-8.59	109.51	113.80
85	5	991	G	C4-C5-N7	8.59	114.23	110.80
85	5	1307	G	N3-C4-N9	8.59	131.15	126.00
85	5	3069	G	N1-C6-O6	-8.59	114.75	119.90
85	5	2132	C	N1-C2-N3	8.59	125.21	119.20
85	5	2372	A	N3-C4-C5	-8.59	120.79	126.80
85	5	3045	G	C4-C5-N7	-8.59	107.36	110.80
37	7	46	A	N7-C8-N9	8.59	118.09	113.80
37	7	114	U	C5-C6-N1	-8.59	118.41	122.70
36	1	2904	U	O5'-P-OP2	-8.58	97.97	105.70
37	3	88	G	C6-N1-C2	-8.58	119.95	125.10
1	2	1582	C	C5-C6-N1	-8.58	116.71	121.00
85	5	1477	A	C6-N1-C2	-8.58	113.45	118.60
85	5	1636	U	C5-C6-N1	-8.58	118.41	122.70
85	5	2953	U	C5-C4-O4	-8.58	120.75	125.90
37	7	57	G	N1-C6-O6	8.58	125.05	119.90
36	1	785	G	C2-N3-C4	8.58	116.19	111.90
36	1	865	U	N1-C2-N3	8.58	120.05	114.90
80	6	273	G	C5-C6-O6	-8.58	123.45	128.60
85	5	164	A	C5-C6-N6	-8.58	116.84	123.70
85	5	518	G	C4-C5-C6	8.58	123.95	118.80
85	5	774	G	O5'-P-OP1	-8.58	97.98	105.70
85	5	934	G	C6-N1-C2	-8.58	119.95	125.10
85	5	2347	U	N3-C4-C5	-8.58	109.45	114.60
85	5	830	A	C6-N1-C2	-8.58	113.45	118.60
85	5	941	G	C2-N3-C4	8.58	116.19	111.90
37	7	92	A	C5-C6-N1	8.58	121.99	117.70
38	8	34	U	N3-C2-O2	-8.58	116.19	122.20
36	1	362	U	O5'-P-OP1	-8.58	97.98	105.70
36	1	1367	G	O5'-P-OP1	-8.58	97.98	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1209	C	N3-C2-O2	8.58	127.91	121.90
85	5	592	A	C5-N7-C8	-8.58	99.61	103.90
85	5	1404	G	C6-C5-N7	-8.58	125.25	130.40
36	1	867	G	N9-C4-C5	8.58	108.83	105.40
36	1	1212	A	C4-C5-N7	8.58	114.99	110.70
36	1	2095	G	N1-C6-O6	-8.58	114.75	119.90
36	1	2306	C	C5-C6-N1	8.58	125.29	121.00
36	1	3005	A	C8-N9-C4	-8.58	102.37	105.80
37	3	91	G	N3-C2-N2	-8.58	113.90	119.90
80	6	312	A	C5-C6-N1	8.58	121.99	117.70
85	5	1462	A	C6-C5-N7	-8.58	126.30	132.30
37	7	115	G	C6-N1-C2	-8.58	119.95	125.10
38	8	116	G	C8-N9-C4	8.58	109.83	106.40
36	1	912	G	C4-C5-C6	8.57	123.94	118.80
36	1	936	A	C6-N1-C2	8.57	123.75	118.60
1	2	509	G	C5-C6-O6	-8.57	123.46	128.60
36	1	241	G	N9-C4-C5	-8.57	101.97	105.40
36	1	337	G	N3-C4-C5	8.57	132.89	128.60
36	1	2262	A	N1-C6-N6	-8.57	113.46	118.60
36	1	2300	G	N7-C8-N9	8.57	117.39	113.10
36	1	2776	C	N3-C4-N4	8.57	124.00	118.00
36	1	2817	A	N1-C6-N6	-8.57	113.46	118.60
36	1	2819	A	C8-N9-C4	-8.57	102.37	105.80
36	1	2832	C	N3-C4-N4	-8.57	112.00	118.00
38	4	42	G	N1-C6-O6	-8.57	114.76	119.90
80	6	305	C	N3-C2-O2	8.57	127.90	121.90
80	6	972	G	N1-C6-O6	8.57	125.05	119.90
38	4	118	C	O5'-P-OP2	8.57	120.99	110.70
80	6	518	A	N1-C6-N6	-8.57	113.46	118.60
80	6	1164	G	N9-C4-C5	-8.57	101.97	105.40
85	5	2355	G	N1-C6-O6	8.57	125.04	119.90
85	5	3374	U	N3-C2-O2	-8.57	116.20	122.20
38	8	48	A	C5-N7-C8	-8.57	99.61	103.90
36	1	59	G	C2-N3-C4	-8.57	107.61	111.90
36	1	3237	U	N1-C2-O2	8.57	128.80	122.80
80	6	798	C	O5'-P-OP1	8.57	120.99	110.70
85	5	966	U	N3-C4-O4	8.57	125.40	119.40
85	5	1165	A	N9-C4-C5	8.57	109.23	105.80
1	2	1181	G	C5-C6-N1	-8.57	107.22	111.50
36	1	207	U	C5-C6-N1	8.57	126.98	122.70
36	1	934	G	C6-N1-C2	-8.57	119.96	125.10
36	1	1312	C	C2-N3-C4	8.57	124.19	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	984	G	N1-C6-O6	8.57	125.04	119.90
36	1	1185	C	OP1-P-OP2	-8.57	106.75	119.60
36	1	1348	U	O5'-P-OP2	8.57	120.98	110.70
36	1	1921	A	N7-C8-N9	8.57	118.09	113.80
36	1	2193	U	N1-C2-O2	-8.57	116.80	122.80
38	4	58	G	O5'-P-OP1	8.57	120.98	110.70
38	4	87	G	N1-C6-O6	-8.57	114.76	119.90
36	1	1644	C	N1-C2-O2	-8.57	113.76	118.90
36	1	2585	G	N3-C4-C5	-8.57	124.32	128.60
36	1	3277	U	C2-N3-C4	8.57	132.14	127.00
80	6	564	G	C8-N9-C4	-8.57	102.97	106.40
80	6	929	A	C5-C6-N1	-8.57	113.42	117.70
80	6	1732	A	C5-N7-C8	-8.57	99.62	103.90
85	5	1169	A	N1-C6-N6	-8.57	113.46	118.60
85	5	2117	A	N1-C2-N3	8.57	133.59	129.30
85	5	2246	G	N3-C2-N2	-8.57	113.90	119.90
85	5	3263	G	C5-C6-N1	-8.57	107.22	111.50
1	2	334	G	C6-C5-N7	-8.57	125.26	130.40
36	1	197	G	C6-C5-N7	-8.57	125.26	130.40
36	1	800	G	N1-C6-O6	8.57	125.04	119.90
80	6	419	G	N1-C6-O6	-8.57	114.76	119.90
85	5	1443	G	C5-N7-C8	-8.57	100.02	104.30
85	5	2732	G	N1-C2-N3	8.57	129.04	123.90
85	5	2816	G	N3-C2-N2	-8.57	113.90	119.90
36	1	420	G	C6-N1-C2	-8.56	119.96	125.10
36	1	525	C	O5'-P-OP2	-8.56	97.99	105.70
36	1	952	A	N1-C2-N3	8.56	133.58	129.30
36	1	970	A	C5-C6-N1	8.56	121.98	117.70
36	1	1310	G	N7-C8-N9	8.56	117.38	113.10
36	1	3193	C	C6-N1-C2	-8.56	116.87	120.30
80	6	241	U	C2-N3-C4	8.56	132.14	127.00
85	5	1421	G	N3-C2-N2	-8.56	113.91	119.90
36	1	2902	A	N1-C2-N3	8.56	133.58	129.30
80	6	1003	A	O5'-P-OP1	-8.56	97.99	105.70
80	6	1020	A	C5-C6-N1	8.56	121.98	117.70
80	6	1154	G	N1-C6-O6	-8.56	114.76	119.90
85	5	96	G	C5-N7-C8	-8.56	100.02	104.30
85	5	983	A	N1-C2-N3	8.56	133.58	129.30
85	5	1009	A	C5-C6-N6	-8.56	116.85	123.70
85	5	2647	A	N7-C8-N9	8.56	118.08	113.80
37	7	75	G	C2-N3-C4	-8.56	107.62	111.90
85	5	3102	G	C5-C6-N1	-8.56	107.22	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3304	U	OP1-P-OP2	8.56	132.44	119.60
36	1	392	G	N1-C6-O6	8.56	125.04	119.90
36	1	727	G	N1-C2-N3	8.56	129.04	123.90
36	1	917	A	C2-N3-C4	8.56	114.88	110.60
1	2	954	A	OP1-P-OP2	-8.56	106.76	119.60
36	1	45	A	C2-N3-C4	-8.56	106.32	110.60
36	1	211	A	C8-N9-C4	-8.56	102.38	105.80
36	1	3145	C	C6-N1-C2	-8.56	116.88	120.30
85	5	815	G	N1-C6-O6	-8.56	114.76	119.90
85	5	2247	G	N1-C2-N3	8.56	129.04	123.90
85	5	2607	G	N3-C4-C5	8.56	132.88	128.60
85	5	2682	C	N3-C2-O2	-8.56	115.91	121.90
85	5	3067	C	C6-N1-C2	8.56	123.72	120.30
1	2	833	A	C8-N9-C4	8.56	109.22	105.80
36	1	800	G	N7-C8-N9	8.56	117.38	113.10
36	1	966	U	N1-C2-N3	8.56	120.03	114.90
36	1	1891	A	C8-N9-C4	8.56	109.22	105.80
85	5	2256	A	C5-C6-N6	-8.56	116.85	123.70
85	5	2659	G	C5-C6-N1	8.56	115.78	111.50
36	1	1786	G	N1-C6-O6	-8.56	114.77	119.90
36	1	2971	A	C6-C5-N7	-8.56	126.31	132.30
85	5	1066	G	C5-C6-N1	8.56	115.78	111.50
85	5	1172	G	C8-N9-C1'	-8.56	115.88	127.00
85	5	1852	G	C4-C5-N7	8.56	114.22	110.80
85	5	2329	C	O5'-P-OP1	8.56	120.97	110.70
85	5	3120	C	N1-C2-N3	-8.56	113.21	119.20
36	1	435	C	N1-C2-N3	-8.56	113.21	119.20
36	1	643	U	C6-N1-C2	-8.56	115.87	121.00
85	5	2365	C	O5'-P-OP1	-8.56	98.00	105.70
1	2	430	G	C8-N9-C4	-8.55	102.98	106.40
1	2	997	G	C8-N9-C4	-8.55	102.98	106.40
85	5	2603	G	O4'-C1'-N9	8.55	115.04	108.20
1	2	1111	C	N1-C2-O2	8.55	124.03	118.90
36	1	542	G	N1-C6-O6	8.55	125.03	119.90
36	1	2519	A	C8-N9-C4	-8.55	102.38	105.80
38	8	104	A	C5-C6-N1	8.55	121.98	117.70
36	1	2633	U	O5'-P-OP2	8.55	120.96	110.70
36	1	3065	G	C5-C6-N1	-8.55	107.22	111.50
80	6	356	G	C5-C6-N1	8.55	115.78	111.50
80	6	1095	U	N3-C4-O4	8.55	125.39	119.40
85	5	815	G	N1-C2-N3	8.55	129.03	123.90
85	5	1878	G	N1-C6-O6	-8.55	114.77	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1947	G	C5-C6-N1	8.55	115.78	111.50
85	5	2356	A	C5-C6-N1	8.55	121.98	117.70
85	5	2811	A	C5-C6-N1	8.55	121.98	117.70
37	7	64	A	C4-C5-C6	-8.55	112.72	117.00
36	1	994	G	C5-C6-O6	8.55	133.73	128.60
36	1	1406	A	C8-N9-C4	-8.55	102.38	105.80
36	1	3177	G	C8-N9-C4	8.55	109.82	106.40
80	6	350	U	O5'-P-OP2	-8.55	98.00	105.70
85	5	2559	U	N1-C2-N3	8.55	120.03	114.90
36	1	2195	C	C2-N3-C4	8.55	124.17	119.90
36	1	2384	A	O5'-P-OP2	-8.55	98.00	105.70
36	1	3034	C	C5-C6-N1	8.55	125.28	121.00
80	6	89	G	N1-C6-O6	8.55	125.03	119.90
85	5	2929	C	C6-N1-C2	-8.55	116.88	120.30
80	6	537	G	O5'-P-OP2	-8.55	98.00	105.70
80	6	979	A	N3-C4-C5	-8.55	120.81	126.80
85	5	801	A	N7-C8-N9	-8.55	109.52	113.80
1	2	1297	U	N3-C4-O4	-8.55	113.42	119.40
36	1	218	G	C5-C6-O6	-8.55	123.47	128.60
36	1	408	A	N1-C6-N6	-8.55	113.47	118.60
36	1	2284	C	N3-C2-O2	-8.55	115.92	121.90
85	5	1205	A	C2-N3-C4	8.55	114.88	110.60
36	1	1132	C	O5'-P-OP1	-8.55	98.01	105.70
36	1	2387	A	C4-C5-N7	8.55	114.97	110.70
37	3	66	A	C6-N1-C2	-8.55	113.47	118.60
85	5	670	C	N1-C2-O2	-8.55	113.77	118.90
80	6	129	U	C6-N1-C2	8.55	126.13	121.00
80	6	592	A	O5'-P-OP2	-8.55	98.01	105.70
80	6	1421	A	N7-C8-N9	-8.55	109.53	113.80
80	6	1643	U	C4-C5-C6	8.55	124.83	119.70
85	5	356	C	N1-C2-N3	8.55	125.18	119.20
85	5	1072	G	C6-C5-N7	-8.55	125.27	130.40
85	5	1938	U	N1-C2-O2	-8.55	116.82	122.80
85	5	2196	C	O5'-P-OP1	-8.55	98.01	105.70
85	5	3072	C	C5-C6-N1	8.55	125.27	121.00
1	2	312	A	N7-C8-N9	8.54	118.07	113.80
1	2	1382	C	C2-N3-C4	8.55	124.17	119.90
36	1	213	A	C2-N3-C4	-8.55	106.33	110.60
80	6	947	U	C2-N3-C4	8.55	132.13	127.00
36	1	203	G	C6-N1-C2	-8.54	119.97	125.10
36	1	526	C	C6-N1-C2	-8.54	116.88	120.30
36	1	1008	U	O5'-P-OP1	8.54	120.95	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1852	G	C5-C6-N1	-8.54	107.23	111.50
36	1	2667	A	C8-N9-C4	8.54	109.22	105.80
68	O2	125	ARG	NE-CZ-NH1	-8.54	116.03	120.30
80	6	609	U	N1-C2-N3	8.54	120.03	114.90
85	5	300	G	C5-C6-O6	8.55	133.73	128.60
85	5	353	G	C5-C6-N1	8.55	115.77	111.50
85	5	1399	A	C5-N7-C8	-8.55	99.63	103.90
85	5	941	G	O5'-P-OP2	-8.54	98.01	105.70
85	5	951	A	C2-N3-C4	-8.54	106.33	110.60
85	5	1914	G	N9-C4-C5	8.54	108.82	105.40
85	5	3390	G	C6-C5-N7	-8.54	125.27	130.40
1	2	1106	C	C6-N1-C2	8.54	123.72	120.30
85	5	2120	A	O5'-P-OP1	8.54	120.95	110.70
85	5	2403	G	C6-C5-N7	-8.54	125.27	130.40
1	2	305	C	N3-C4-C5	-8.54	118.48	121.90
1	2	386	G	C4-C5-N7	-8.54	107.38	110.80
1	2	1167	A	OP1-P-OP2	8.54	132.41	119.60
36	1	972	A	C8-N9-C4	8.54	109.22	105.80
36	1	1834	U	N1-C2-O2	-8.54	116.82	122.80
85	5	2425	G	C5-N7-C8	-8.54	100.03	104.30
36	1	3131	U	O5'-P-OP2	8.54	120.95	110.70
80	6	1213	G	C4-C5-N7	8.54	114.22	110.80
85	5	2112	U	O5'-P-OP1	-8.54	98.01	105.70
85	5	2707	C	C6-N1-C1'	8.54	131.05	120.80
36	1	1098	A	N7-C8-N9	8.54	118.07	113.80
36	1	3302	U	C5-C6-N1	-8.54	118.43	122.70
85	5	1226	G	C2-N3-C4	-8.54	107.63	111.90
85	5	2335	G	OP1-P-OP2	-8.54	106.79	119.60
1	2	1411	G	O5'-P-OP1	-8.54	98.02	105.70
1	2	1611	U	C5-C6-N1	8.54	126.97	122.70
1	2	1768	U	C4-C5-C6	8.54	124.82	119.70
36	1	17	G	C5-C6-N1	8.54	115.77	111.50
36	1	266	A	N1-C2-N3	8.54	133.57	129.30
36	1	714	G	O5'-P-OP2	-8.54	98.02	105.70
36	1	1152	G	OP1-P-OP2	8.54	132.41	119.60
36	1	3099	C	C4-C5-C6	-8.54	113.13	117.40
37	3	99	G	N1-C2-N2	-8.54	108.52	116.20
36	1	3033	A	C4-C5-C6	8.54	121.27	117.00
37	3	11	A	O5'-P-OP2	-8.54	98.02	105.70
80	6	277	U	C6-N1-C2	8.54	126.12	121.00
80	6	718	U	O5'-P-OP1	-8.54	98.02	105.70
80	6	1084	A	N1-C6-N6	-8.54	113.48	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1618	C	N3-C4-N4	-8.54	112.02	118.00
85	5	424	G	N1-C6-O6	8.54	125.02	119.90
85	5	421	G	N1-C6-O6	-8.54	114.78	119.90
85	5	1133	A	N7-C8-N9	8.54	118.07	113.80
85	5	1742	U	C5-C4-O4	-8.54	120.78	125.90
85	5	2594	C	C6-N1-C2	8.54	123.72	120.30
85	5	1792	C	C5-C6-N1	-8.54	116.73	121.00
85	5	2406	C	N3-C2-O2	8.54	127.88	121.90
36	1	186	U	C2-N3-C4	8.54	132.12	127.00
36	1	648	C	C2-N1-C1'	8.54	128.19	118.80
36	1	809	G	N3-C2-N2	-8.54	113.92	119.90
36	1	2806	U	C6-N1-C2	-8.54	115.88	121.00
80	6	248	U	C5-C6-N1	-8.54	118.43	122.70
85	5	777	U	OP1-P-O3'	8.54	123.98	105.20
85	5	996	A	N9-C4-C5	8.54	109.22	105.80
36	1	532	A	C8-N9-C4	8.53	109.21	105.80
36	1	1817	G	C5-C6-O6	-8.54	123.48	128.60
36	1	2867	C	N3-C2-O2	-8.53	115.93	121.90
36	1	3191	G	N3-C2-N2	-8.53	113.93	119.90
38	4	17	A	C6-C5-N7	-8.53	126.33	132.30
80	6	1473	U	C6-N1-C2	-8.53	115.88	121.00
80	6	1654	G	N1-C2-N3	8.54	129.02	123.90
85	5	328	U	N3-C2-O2	-8.53	116.23	122.20
85	5	2369	G	N3-C4-N9	8.53	131.12	126.00
85	5	3251	U	N3-C4-O4	-8.54	113.42	119.40
37	7	101	G	C6-C5-N7	-8.54	125.28	130.40
1	2	372	G	N9-C4-C5	8.53	108.81	105.40
1	2	1720	G	C8-N9-C4	-8.53	102.99	106.40
80	6	1299	G	C6-C5-N7	-8.53	125.28	130.40
36	1	1043	C	O5'-P-OP1	8.53	120.94	110.70
36	1	1112	A	C8-N9-C4	8.53	109.21	105.80
36	1	3046	A	N1-C2-N3	8.53	133.56	129.30
38	4	23	U	OP1-P-OP2	8.53	132.40	119.60
80	6	1355	C	C5-C6-N1	8.53	125.27	121.00
85	5	59	G	C5-N7-C8	-8.53	100.03	104.30
85	5	2816	G	C2-N3-C4	-8.53	107.63	111.90
85	5	2896	A	C5-C6-N1	-8.53	113.43	117.70
36	1	405	U	N3-C2-O2	-8.53	116.23	122.20
36	1	591	G	C4-C5-C6	8.53	123.92	118.80
37	3	36	C	N3-C4-C5	8.53	125.31	121.90
85	5	968	G	C5-C6-O6	-8.53	123.48	128.60
85	5	1582	C	C6-N1-C2	-8.53	116.89	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2946	A	N7-C8-N9	8.53	118.06	113.80
1	2	1282	G	C8-N9-C4	-8.53	102.99	106.40
1	2	1299	G	C8-N9-C4	-8.53	102.99	106.40
36	1	162	G	C5-C6-O6	-8.53	123.48	128.60
36	1	1114	U	C5-C4-O4	8.53	131.02	125.90
36	1	1555	U	N1-C2-O2	-8.53	116.83	122.80
36	1	2791	G	N1-C2-N3	8.53	129.02	123.90
36	1	2961	G	C4-C5-C6	8.53	123.92	118.80
85	5	422	A	C2-N3-C4	-8.53	106.33	110.60
85	5	1116	G	OP2-P-O3'	8.53	123.96	105.20
85	5	3028	G	N1-C6-O6	-8.53	114.78	119.90
36	1	1183	C	O5'-P-OP2	-8.53	98.03	105.70
36	1	2287	C	C5-C4-N4	8.53	126.17	120.20
36	1	2319	U	N3-C2-O2	-8.53	116.23	122.20
36	1	3272	C	C5-C6-N1	8.53	125.26	121.00
36	1	3336	A	N9-C4-C5	8.53	109.21	105.80
38	4	2	A	C6-N1-C2	8.53	123.72	118.60
80	6	425	A	C2-N3-C4	8.53	114.86	110.60
80	6	1204	A	C5-C6-N1	-8.53	113.44	117.70
85	5	1391	C	C5-C6-N1	-8.53	116.74	121.00
85	5	1827	C	C4-C5-C6	-8.53	113.14	117.40
85	5	2953	U	C2-N1-C1'	8.53	127.93	117.70
38	8	4	C	N1-C2-N3	8.53	125.17	119.20
85	5	2700	G	C5-C6-N1	8.53	115.76	111.50
85	5	3009	G	N1-C6-O6	8.53	125.02	119.90
37	7	7	G	C4-C5-C6	8.53	123.92	118.80
40	13	35	ASP	CB-CG-OD1	8.53	125.97	118.30
36	1	162	G	N1-C6-O6	8.52	125.01	119.90
36	1	975	C	C4-C5-C6	8.52	121.66	117.40
85	5	138	U	O5'-P-OP1	8.52	120.93	110.70
85	5	1157	G	O5'-P-OP1	-8.52	98.03	105.70
85	5	2684	C	C6-N1-C2	-8.52	116.89	120.30
39	12	246	LEU	CA-CB-CG	8.52	134.91	115.30
36	1	885	U	C2-N3-C4	-8.52	121.89	127.00
36	1	2759	U	C4-C5-C6	8.52	124.81	119.70
36	1	3288	G	N1-C6-O6	8.52	125.01	119.90
38	4	7	U	N1-C2-N3	8.52	120.01	114.90
80	6	588	U	C5-C6-N1	8.52	126.96	122.70
80	6	1608	U	N3-C2-O2	-8.52	116.23	122.20
85	5	47	C	C5-C4-N4	-8.52	114.23	120.20
85	5	1691	U	O5'-P-OP2	-8.52	98.03	105.70
80	6	1770	U	O5'-P-OP1	-8.52	98.03	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1771	U	C4-C5-C6	8.52	124.81	119.70
85	5	1420	C	C6-N1-C2	8.52	123.71	120.30
85	5	1422	G	C5-C6-O6	-8.52	123.49	128.60
91	P	74	C	N3-C2-O2	8.52	127.86	121.90
36	1	155	G	N3-C4-C5	-8.52	124.34	128.60
36	1	2881	C	C6-N1-C2	8.52	123.71	120.30
36	1	3107	U	C5-C6-N1	-8.52	118.44	122.70
85	5	573	C	C2-N3-C4	-8.52	115.64	119.90
85	5	1483	G	C5-C6-O6	8.52	133.71	128.60
85	5	1886	A	C6-N1-C2	8.52	123.71	118.60
85	5	3318	G	N3-C2-N2	-8.52	113.94	119.90
36	1	1172	G	C5-N7-C8	-8.52	100.04	104.30
36	1	1902	G	C6-C5-N7	-8.52	125.29	130.40
80	6	426	G	C4-N9-C1'	8.52	137.57	126.50
80	6	429	G	N1-C2-N3	8.52	129.01	123.90
85	5	439	C	C6-N1-C2	-8.52	116.89	120.30
85	5	2368	A	OP2-P-O3'	8.52	123.94	105.20
36	1	751	A	C6-C5-N7	-8.52	126.34	132.30
36	1	938	C	N3-C2-O2	8.52	127.86	121.90
36	1	1813	A	C4-C5-N7	-8.52	106.44	110.70
36	1	3238	G	N1-C6-O6	8.52	125.01	119.90
36	1	3253	G	N1-C6-O6	8.52	125.01	119.90
80	6	469	C	C4-C5-C6	-8.52	113.14	117.40
85	5	1850	A	C4-C5-C6	8.52	121.26	117.00
85	5	201	A	C4-C5-N7	8.52	114.96	110.70
85	5	358	G	N1-C2-N3	8.52	129.01	123.90
85	5	1903	U	OP1-P-OP2	-8.52	106.83	119.60
85	5	3008	A	N3-C4-C5	8.52	132.76	126.80
36	1	2434	U	O5'-P-OP2	-8.51	98.04	105.70
36	1	2609	A	C5-N7-C8	8.51	108.16	103.90
36	1	683	U	N1-C2-N3	8.51	120.01	114.90
36	1	878	G	C8-N9-C4	-8.51	103.00	106.40
36	1	961	C	N3-C4-C5	-8.51	118.50	121.90
36	1	1059	G	C8-N9-C4	8.51	109.81	106.40
61	n5	57	LEU	CB-CG-CD1	-8.51	96.53	111.00
36	1	1372	C	C4-C5-C6	8.51	121.66	117.40
36	1	1708	C	C6-N1-C2	-8.51	116.89	120.30
36	1	1814	A	N9-C4-C5	-8.51	102.39	105.80
36	1	2107	A	C4-C5-N7	-8.51	106.44	110.70
36	1	3081	C	C5-C6-N1	-8.51	116.74	121.00
36	1	3160	U	N3-C2-O2	-8.51	116.24	122.20
80	6	396	G	N1-C2-N3	8.51	129.01	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1786	G	N3-C4-C5	8.51	132.86	128.60
85	5	844	G	C6-N1-C2	-8.51	119.99	125.10
85	5	2830	G	OP1-P-O3'	-8.51	86.47	105.20
36	1	358	G	N3-C2-N2	-8.51	113.94	119.90
36	1	959	C	OP1-P-OP2	8.51	132.37	119.60
36	1	1409	G	N1-C2-N2	-8.51	108.54	116.20
36	1	2424	A	C8-N9-C4	8.51	109.20	105.80
1	2	914	C	N1-C2-O2	-8.51	113.80	118.90
36	1	2806	U	N3-C2-O2	-8.51	116.24	122.20
37	3	8	G	N3-C2-N2	8.51	125.86	119.90
80	6	558	U	OP1-P-OP2	8.51	132.37	119.60
38	4	69	U	C6-N1-C2	8.51	126.11	121.00
38	4	137	C	C4-C5-C6	8.51	121.66	117.40
80	6	562	G	N1-C2-N3	8.51	129.01	123.90
80	6	617	U	N3-C2-O2	-8.51	116.24	122.20
80	6	1749	A	C5-C6-N1	-8.51	113.44	117.70
85	5	1820	U	C4-C5-C6	-8.51	114.59	119.70
85	5	1196	C	OP1-P-O3'	8.51	123.92	105.20
85	5	2813	A	O5'-P-OP2	8.51	120.91	110.70
85	5	3377	G	N1-C2-N3	-8.51	118.79	123.90
85	5	2925	C	C2-N1-C1'	-8.51	109.44	118.80
85	5	3155	U	N3-C4-O4	-8.51	113.44	119.40
1	2	1078	U	N1-C2-N3	8.51	120.00	114.90
36	1	757	C	C5-C6-N1	-8.51	116.75	121.00
36	1	1474	A	N1-C2-N3	8.51	133.55	129.30
36	1	1591	G	N1-C2-N3	8.51	129.00	123.90
36	1	2144	A	C6-N1-C2	-8.51	113.50	118.60
36	1	3042	U	N3-C4-O4	8.51	125.36	119.40
38	4	139	U	N3-C4-C5	-8.51	109.50	114.60
1	2	569	C	C6-N1-C2	8.51	123.70	120.30
1	2	744	G	C5-C6-O6	8.51	133.70	128.60
38	4	17	A	C5-N7-C8	-8.51	99.65	103.90
80	6	1063	U	N3-C2-O2	8.51	128.16	122.20
85	5	377	A	C5-C6-N6	-8.51	116.89	123.70
85	5	870	G	C4-C5-C6	-8.51	113.69	118.80
85	5	2400	G	N1-C6-O6	8.51	125.00	119.90
36	1	197	G	N1-C6-O6	8.51	125.00	119.90
36	1	573	C	C4-C5-C6	8.51	121.65	117.40
36	1	2733	A	C2-N3-C4	-8.51	106.35	110.60
37	3	27	A	N7-C8-N9	8.51	118.05	113.80
38	4	149	A	OP1-P-OP2	8.51	132.36	119.60
80	6	322	G	C4-C5-N7	8.51	114.20	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	859	G	O5'-P-OP1	8.51	120.91	110.70
85	5	1507	G	N1-C2-N3	8.51	129.00	123.90
85	5	2812	C	OP1-P-O3'	8.51	123.91	105.20
1	2	936	G	N1-C2-N3	8.50	129.00	123.90
36	1	654	C	C5-C6-N1	8.50	125.25	121.00
36	1	1670	C	N3-C4-C5	8.50	125.30	121.90
36	1	1858	A	C5-C6-N1	-8.50	113.45	117.70
80	6	879	G	C4-C5-N7	-8.50	107.40	110.80
80	6	1001	A	N7-C8-N9	8.50	118.05	113.80
85	5	62	A	C2-N3-C4	-8.50	106.35	110.60
85	5	703	G	C5-N7-C8	-8.50	100.05	104.30
85	5	1037	C	C5-C6-N1	-8.50	116.75	121.00
85	5	1545	A	C4-C5-N7	8.50	114.95	110.70
85	5	1753	G	N9-C4-C5	-8.50	102.00	105.40
85	5	2800	G	C6-N1-C2	-8.50	120.00	125.10
85	5	2806	U	N1-C2-O2	-8.50	116.85	122.80
85	5	2887	A	N1-C6-N6	-8.50	113.50	118.60
85	5	3311	C	C6-N1-C2	8.50	123.70	120.30
37	7	13	A	O5'-P-OP2	-8.50	98.05	105.70
38	8	62	C	C5-C6-N1	8.50	125.25	121.00
36	1	2728	G	N3-C4-N9	8.50	131.10	126.00
80	6	1597	A	C5-C6-N1	-8.50	113.45	117.70
85	5	1104	G	N3-C4-C5	-8.50	124.35	128.60
36	1	2165	G	C6-C5-N7	-8.50	125.30	130.40
36	1	2633	U	C5-C6-N1	-8.50	118.45	122.70
36	1	3130	A	C4-C5-C6	8.50	121.25	117.00
36	1	3210	A	N1-C6-N6	-8.50	113.50	118.60
38	4	18	U	N1-C2-O2	-8.50	116.85	122.80
80	6	561	G	N7-C8-N9	8.50	117.35	113.10
80	6	586	G	N7-C8-N9	-8.50	108.85	113.10
85	5	1054	A	O5'-P-OP2	-8.50	98.05	105.70
85	5	1805	C	C2-N1-C1'	-8.50	109.45	118.80
85	5	2406	C	C2-N3-C4	8.50	124.15	119.90
85	5	2892	A	N1-C6-N6	8.50	123.70	118.60
36	1	1115	G	OP1-P-OP2	-8.50	106.85	119.60
36	1	345	G	C4-C5-C6	8.50	123.90	118.80
36	1	1298	C	C4-C5-C6	8.50	121.65	117.40
36	1	1431	G	N1-C2-N3	8.50	129.00	123.90
80	6	467	G	N1-C2-N2	-8.50	108.55	116.20
80	6	584	C	N3-C2-O2	-8.50	115.95	121.90
85	5	2220	A	C5-N7-C8	-8.50	99.65	103.90
85	5	2359	C	O5'-P-OP1	8.50	120.90	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2382	G	C6-C5-N7	8.50	135.50	130.40
85	5	497	C	O5'-P-OP2	8.50	120.89	110.70
85	5	710	A	C5-N7-C8	-8.50	99.65	103.90
85	5	1304	A	C5-C6-N1	8.50	121.95	117.70
85	5	1670	C	C5-C6-N1	8.50	125.25	121.00
69	o3	99	ARG	NE-CZ-NH1	-8.50	116.05	120.30
36	1	89	A	C4-C5-N7	-8.49	106.45	110.70
36	1	3253	G	C5-C6-O6	-8.49	123.50	128.60
85	5	924	G	OP1-P-OP2	-8.49	106.86	119.60
85	5	2350	C	N1-C2-N3	8.49	125.15	119.20
36	1	389	A	C5-C6-N6	8.49	130.49	123.70
36	1	1518	U	C5-C6-N1	-8.49	118.45	122.70
36	1	1917	C	N1-C2-O2	8.49	124.00	118.90
85	5	2830	G	N1-C2-N2	-8.49	108.56	116.20
36	1	2819	A	N1-C6-N6	8.49	123.69	118.60
80	6	474	A	N1-C6-N6	8.49	123.70	118.60
80	6	938	G	C8-N9-C4	-8.49	103.00	106.40
80	6	942	G	N1-C2-N2	8.49	123.84	116.20
85	5	437	G	C5-C6-O6	8.49	133.70	128.60
85	5	443	G	O5'-P-OP2	8.49	120.89	110.70
85	5	1872	C	N1-C2-N3	8.49	125.15	119.20
85	5	2687	G	O5'-P-OP2	-8.49	98.06	105.70
80	6	1172	G	C2-N3-C4	8.49	116.15	111.90
85	5	408	A	C8-N9-C4	8.49	109.20	105.80
85	5	998	A	OP2-P-O3'	8.49	123.89	105.20
85	5	1409	G	N3-C2-N2	8.49	125.84	119.90
85	5	2883	U	N1-C2-N3	8.49	120.00	114.90
85	5	3316	A	C4-C5-C6	8.49	121.25	117.00
1	2	98	U	O5'-P-OP2	-8.49	98.06	105.70
36	1	154	U	N1-C2-O2	-8.49	116.86	122.80
36	1	972	A	C2-N3-C4	-8.49	106.35	110.60
36	1	1487	G	N3-C4-C5	-8.49	124.36	128.60
85	5	1491	A	N7-C8-N9	-8.49	109.55	113.80
36	1	721	G	C6-C5-N7	-8.49	125.31	130.40
36	1	3248	C	N3-C2-O2	8.49	127.84	121.90
85	5	632	G	C6-N1-C2	-8.49	120.01	125.10
85	5	789	A	C4-C5-C6	8.49	121.25	117.00
85	5	2119	A	C5-N7-C8	-8.49	99.66	103.90
85	5	2410	U	N1-C2-N3	8.49	119.99	114.90
85	5	2520	A	N1-C6-N6	8.49	123.69	118.60
85	5	2672	G	C4-C5-N7	8.49	114.20	110.80
85	5	2804	A	N1-C6-N6	-8.49	113.50	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	104	A	C4-C5-C6	-8.49	112.75	117.00
36	1	95	A	OP1-P-OP2	-8.49	106.87	119.60
36	1	129	U	C5-C4-O4	8.49	130.99	125.90
36	1	143	G	C4-C5-N7	-8.49	107.41	110.80
80	6	1092	A	N1-C2-N3	-8.49	125.06	129.30
85	5	1474	A	C5-N7-C8	-8.49	99.66	103.90
85	5	1848	G	OP2-P-O3'	8.49	123.87	105.20
1	2	423	G	C8-N9-C4	-8.49	103.00	106.40
36	1	440	A	C6-N1-C2	8.49	123.69	118.60
36	1	1860	G	N9-C4-C5	8.49	108.80	105.40
36	1	2646	C	C2-N3-C4	-8.49	115.66	119.90
80	6	356	G	N1-C2-N3	8.49	128.99	123.90
85	5	335	G	N1-C6-O6	-8.49	114.81	119.90
85	5	624	G	C5-C6-O6	-8.49	123.51	128.60
85	5	642	U	N3-C2-O2	-8.49	116.26	122.20
85	5	1120	A	N1-C2-N3	8.49	133.54	129.30
85	5	1858	A	C8-N9-C4	-8.49	102.41	105.80
85	5	2256	A	C4-C5-N7	8.49	114.94	110.70
85	5	2847	A	N1-C6-N6	8.49	123.69	118.60
85	5	2851	A	N9-C4-C5	8.49	109.19	105.80
85	5	3083	G	N1-C2-N2	-8.49	108.56	116.20
36	1	341	G	N7-C8-N9	8.48	117.34	113.10
36	1	356	C	N1-C2-O2	-8.48	113.81	118.90
36	1	366	A	C4-C5-C6	8.48	121.24	117.00
85	5	68	C	C5-C6-N1	8.48	125.24	121.00
85	5	654	C	C5-C4-N4	-8.48	114.26	120.20
85	5	1442	U	O5'-P-OP2	8.48	120.88	110.70
85	5	1637	A	N1-C6-N6	-8.48	113.51	118.60
85	5	1692	U	N3-C2-O2	8.48	128.14	122.20
85	5	1893	A	C8-N9-C4	8.48	109.19	105.80
85	5	2939	G	N1-C2-N3	8.48	128.99	123.90
37	7	64	A	C8-N9-C4	8.48	109.19	105.80
36	1	41	G	N7-C8-N9	8.48	117.34	113.10
36	1	1485	G	N9-C4-C5	-8.48	102.01	105.40
85	5	512	U	N3-C4-O4	-8.48	113.46	119.40
36	1	3209	A	N7-C8-N9	8.48	118.04	113.80
80	6	103	A	C5-N7-C8	-8.48	99.66	103.90
80	6	857	U	O5'-P-OP2	-8.48	98.07	105.70
85	5	1440	G	C4-C5-N7	8.48	114.19	110.80
85	5	2890	A	C4-C5-N7	-8.48	106.46	110.70
37	7	85	G	C4-C5-C6	8.48	123.89	118.80
36	1	1166	G	C2-N3-C4	-8.48	107.66	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1526	U	C6-N1-C2	-8.48	115.91	121.00
38	4	82	U	C5-C6-N1	8.48	126.94	122.70
80	6	17	C	O5'-P-OP2	-8.48	98.07	105.70
36	1	148	G	N9-C4-C5	8.48	108.79	105.40
36	1	294	U	N3-C4-C5	-8.48	109.52	114.60
36	1	1383	G	N7-C8-N9	8.48	117.34	113.10
85	5	1056	U	C5-C4-O4	8.48	130.99	125.90
36	1	1897	G	C6-N1-C2	-8.48	120.01	125.10
36	1	3343	G	C6-C5-N7	-8.48	125.31	130.40
36	1	3362	A	C5-C6-N6	-8.48	116.92	123.70
80	6	82	U	OP1-P-OP2	-8.48	106.89	119.60
80	6	1127	G	N1-C2-N3	8.48	128.99	123.90
85	5	386	A	C2-N3-C4	-8.48	106.36	110.60
1	2	1198	C	C6-N1-C2	-8.47	116.91	120.30
36	1	156	G	C8-N9-C4	-8.47	103.01	106.40
36	1	901	G	C6-C5-N7	-8.47	125.31	130.40
36	1	1376	C	OP1-P-OP2	8.47	132.31	119.60
36	1	315	C	C5-C4-N4	-8.47	114.27	120.20
36	1	2957	G	N3-C4-C5	8.47	132.84	128.60
36	1	2972	G	O4'-C1'-N9	8.47	114.98	108.20
36	1	3104	U	N1-C2-N3	-8.47	109.81	114.90
36	1	3216	G	N7-C8-N9	8.47	117.34	113.10
80	6	963	A	C2-N3-C4	8.47	114.84	110.60
85	5	567	G	C5-N7-C8	-8.47	100.06	104.30
85	5	1755	C	N1-C2-O2	-8.47	113.81	118.90
36	1	3288	G	C4-C5-N7	8.47	114.19	110.80
80	6	801	G	N3-C4-C5	-8.47	124.36	128.60
85	5	1625	A	C2-N3-C4	-8.47	106.36	110.60
85	5	3180	A	C5-C6-N1	8.47	121.94	117.70
36	1	1547	G	C8-N9-C4	8.47	109.79	106.40
85	5	432	G	C2-N3-C4	-8.47	107.66	111.90
85	5	1211	U	O5'-P-OP2	-8.47	98.08	105.70
85	5	2218	G	N3-C4-C5	-8.47	124.36	128.60
37	7	63	A	N1-C6-N6	8.47	123.68	118.60
1	2	599	A	N9-C4-C5	8.47	109.19	105.80
80	6	290	G	N1-C2-N2	8.47	123.82	116.20
80	6	584	C	N3-C4-C5	8.47	125.29	121.90
85	5	221	A	N9-C4-C5	8.47	109.19	105.80
85	5	288	C	N3-C4-N4	8.47	123.93	118.00
85	5	568	G	C6-C5-N7	-8.47	125.32	130.40
85	5	818	C	N1-C2-O2	-8.47	113.82	118.90
85	5	1797	A	C2-N3-C4	-8.47	106.36	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2395	G	N1-C6-O6	8.47	124.98	119.90
85	5	2775	U	C5-C4-O4	8.47	130.98	125.90
85	5	2883	U	OP1-P-OP2	-8.47	106.90	119.60
85	5	3025	C	C5-C4-N4	8.47	126.13	120.20
1	2	1035	U	N3-C2-O2	-8.47	116.27	122.20
36	1	713	U	N1-C2-N3	8.47	119.98	114.90
36	1	1325	U	O5'-P-OP2	-8.47	98.08	105.70
36	1	2165	G	C4-C5-C6	8.47	123.88	118.80
36	1	2893	C	N3-C4-C5	8.47	125.29	121.90
80	6	43	A	C8-N9-C4	-8.47	102.41	105.80
80	6	463	U	C6-N1-C2	-8.47	115.92	121.00
80	6	1570	A	C5-C6-N1	8.47	121.93	117.70
85	5	141	C	C5-C4-N4	-8.47	114.27	120.20
85	5	1078	U	C5-C4-O4	8.47	130.98	125.90
85	5	1462	A	C5-C6-N1	-8.47	113.47	117.70
85	5	2256	A	N1-C6-N6	8.47	123.68	118.60
85	5	2851	A	C5-N7-C8	-8.47	99.67	103.90
37	7	48	U	N3-C4-O4	8.47	125.33	119.40
49	m3	49	ARG	NE-CZ-NH2	8.47	124.53	120.30
91	p	74	C	N3-C2-O2	8.47	127.83	121.90
36	1	206	G	C6-C5-N7	-8.47	125.32	130.40
36	1	230	U	N1-C2-N3	8.47	119.98	114.90
36	1	741	U	C5-C4-O4	8.46	130.98	125.90
36	1	1600	U	OP1-P-OP2	-8.47	106.90	119.60
80	6	1680	G	C5-C6-N1	8.47	115.73	111.50
36	1	842	G	C5-C6-N1	8.46	115.73	111.50
36	1	974	G	C5-C6-N1	8.46	115.73	111.50
36	1	1004	U	N3-C4-C5	-8.46	109.52	114.60
36	1	1832	C	O5'-P-OP2	-8.46	98.08	105.70
36	1	1918	C	N3-C2-O2	-8.46	115.97	121.90
36	1	2377	G	N1-C2-N2	-8.46	108.58	116.20
36	1	2650	U	C5-C4-O4	8.46	130.98	125.90
36	1	2854	U	C5-C6-N1	-8.46	118.47	122.70
80	6	447	U	N3-C4-C5	-8.46	109.52	114.60
80	6	1104	U	N3-C4-O4	8.46	125.33	119.40
85	5	79	U	C5-C6-N1	-8.46	118.47	122.70
85	5	386	A	N7-C8-N9	-8.46	109.57	113.80
85	5	1144	U	O5'-P-OP1	-8.46	98.08	105.70
85	5	1301	A	N9-C4-C5	8.47	109.19	105.80
85	5	2956	A	N1-C2-N3	8.46	133.53	129.30
1	2	163	G	C5-C6-O6	8.46	133.68	128.60
36	1	75	G	C4-C5-N7	8.46	114.19	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	833	G	N1-C2-N3	8.46	128.98	123.90
36	1	1319	G	N7-C8-N9	8.46	117.33	113.10
36	1	1552	G	C6-C5-N7	-8.46	125.32	130.40
36	1	3078	U	C5-C4-O4	8.46	130.98	125.90
80	6	308	C	N3-C2-O2	-8.46	115.98	121.90
85	5	703	G	C5-C6-O6	-8.46	123.52	128.60
36	1	588	G	OP1-P-OP2	-8.46	106.91	119.60
36	1	1289	G	C6-C5-N7	-8.46	125.32	130.40
36	1	1341	U	N3-C4-C5	-8.46	109.52	114.60
36	1	3375	A	N1-C2-N3	8.46	133.53	129.30
85	5	150	A	N9-C4-C5	-8.46	102.42	105.80
80	6	979	A	N9-C4-C5	8.46	109.18	105.80
80	6	1033	C	C5-C6-N1	-8.46	116.77	121.00
85	5	2929	C	N3-C4-C5	8.46	125.28	121.90
85	5	980	A	C5-C6-N6	8.46	130.47	123.70
85	5	2119	A	C4-C5-N7	8.46	114.93	110.70
1	2	1103	U	N3-C2-O2	-8.46	116.28	122.20
36	1	1447	G	C4-C5-N7	-8.46	107.42	110.80
80	6	637	C	N1-C2-O2	8.46	123.98	118.90
36	1	24	G	O5'-P-OP1	8.46	120.85	110.70
36	1	198	A	N1-C2-N3	8.46	133.53	129.30
36	1	559	A	N1-C6-N6	8.46	123.67	118.60
36	1	2738	A	O5'-P-OP2	-8.46	98.09	105.70
36	1	2761	G	C8-N9-C4	8.46	109.78	106.40
80	6	680	U	N1-C2-O2	8.46	128.72	122.80
36	1	1334	U	N3-C4-C5	-8.46	109.53	114.60
36	1	2877	G	C5-C6-O6	8.46	133.67	128.60
80	6	645	C	C2-N3-C4	8.46	124.13	119.90
85	5	2342	U	C2-N3-C4	-8.46	121.92	127.00
85	5	3068	U	C4-C5-C6	8.46	124.78	119.70
85	5	3330	A	N3-C4-C5	-8.46	120.88	126.80
37	7	70	U	C5-C6-N1	8.46	126.93	122.70
36	1	3385	U	C5-C6-N1	-8.46	118.47	122.70
80	6	879	G	C6-C5-N7	8.46	135.47	130.40
80	6	996	U	N1-C2-O2	-8.46	116.88	122.80
85	5	2635	A	N1-C2-N3	8.46	133.53	129.30
85	5	3048	A	N9-C4-C5	8.46	109.18	105.80
36	1	584	G	C2-N3-C4	-8.45	107.67	111.90
80	6	542	A	N1-C6-N6	-8.45	113.53	118.60
85	5	763	G	N1-C6-O6	8.46	124.97	119.90
85	5	1106	G	C5-N7-C8	-8.45	100.07	104.30
85	5	2391	G	C5-C6-O6	8.46	133.67	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1104	G	N3-C4-C5	8.45	132.83	128.60
36	1	1205	A	C8-N9-C4	8.45	109.18	105.80
36	1	2315	G	O5'-P-OP2	8.45	120.84	110.70
36	1	2626	A	N1-C2-N3	8.45	133.53	129.30
36	1	3176	G	O5'-P-OP2	8.45	120.84	110.70
80	6	1775	U	N1-C2-N3	8.45	119.97	114.90
36	1	3325	G	N9-C4-C5	8.45	108.78	105.40
80	6	331	A	C8-N9-C4	-8.45	102.42	105.80
85	5	26	A	N1-C2-N3	8.45	133.53	129.30
85	5	1374	G	N1-C6-O6	8.45	124.97	119.90
85	5	3267	A	N3-C4-C5	-8.45	120.88	126.80
37	7	40	C	N3-C4-C5	-8.45	118.52	121.90
1	2	1408	A	N1-C6-N6	-8.45	113.53	118.60
36	1	1890	U	N1-C2-N3	-8.45	109.83	114.90
85	5	1133	A	C5-N7-C8	-8.45	99.67	103.90
38	8	133	G	O5'-P-OP2	-8.45	98.09	105.70
38	4	66	A	C8-N9-C4	-8.45	102.42	105.80
85	5	408	A	N7-C8-N9	-8.45	109.58	113.80
85	5	652	G	N3-C2-N2	-8.45	113.99	119.90
85	5	1692	U	N1-C2-O2	-8.45	116.89	122.80
85	5	2339	C	N3-C4-N4	8.45	123.92	118.00
36	1	2395	G	N3-C4-C5	8.45	132.82	128.60
36	1	68	C	C5-C6-N1	-8.45	116.78	121.00
36	1	3040	A	C2-N3-C4	-8.45	106.38	110.60
36	1	3234	A	N1-C6-N6	8.45	123.67	118.60
80	6	73	U	C6-N1-C2	8.45	126.07	121.00
80	6	637	C	N3-C4-C5	8.45	125.28	121.90
85	5	584	G	C6-N1-C2	-8.45	120.03	125.10
36	1	610	G	N1-C2-N3	8.44	128.97	123.90
36	1	1291	A	N7-C8-N9	8.44	118.02	113.80
36	1	3181	C	OP2-P-O3'	8.45	123.78	105.20
80	6	107	C	N1-C2-O2	-8.44	113.83	118.90
80	6	1681	A	C5-C6-N1	-8.45	113.48	117.70
85	5	1901	A	N7-C8-N9	8.45	118.02	113.80
85	5	2755	C	C6-N1-C2	-8.45	116.92	120.30
85	5	3221	C	N3-C4-C5	-8.44	118.52	121.90
38	8	43	A	O5'-P-OP1	8.45	120.83	110.70
1	2	1253	G	N9-C4-C5	-8.44	102.02	105.40
36	1	205	C	O5'-P-OP1	8.44	120.83	110.70
36	1	370	U	C6-N1-C2	-8.44	115.93	121.00
80	6	47	A	C2-N3-C4	8.44	114.82	110.60
80	6	798	C	C5-C6-N1	8.44	125.22	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	417	A	C8-N9-C4	8.44	109.18	105.80
85	5	1180	A	O5'-P-OP2	8.44	120.83	110.70
85	5	1410	U	N3-C2-O2	-8.44	116.29	122.20
85	5	2343	C	C5-C6-N1	-8.44	116.78	121.00
85	5	3370	A	C5-C6-N1	8.44	121.92	117.70
36	1	2997	G	C8-N9-C4	-8.44	103.02	106.40
85	5	506	U	N1-C2-N3	8.44	119.97	114.90
85	5	882	A	C8-N9-C4	-8.44	102.42	105.80
85	5	1769	G	N9-C4-C5	-8.44	102.02	105.40
85	5	2421	U	N3-C2-O2	-8.44	116.29	122.20
36	1	1314	C	N3-C2-O2	-8.44	115.99	121.90
36	1	3092	C	N3-C4-C5	-8.44	118.52	121.90
80	6	994	G	N1-C6-O6	8.44	124.96	119.90
85	5	2786	G	C5-C6-N1	-8.44	107.28	111.50
36	1	1927	G	C5-C6-N1	-8.44	107.28	111.50
36	1	2591	A	C5-C6-N6	-8.44	116.95	123.70
38	4	99	C	C5-C6-N1	-8.44	116.78	121.00
85	5	1345	G	C4-C5-N7	-8.44	107.43	110.80
85	5	2264	U	N3-C4-O4	8.44	125.31	119.40
85	5	2378	C	C6-N1-C2	8.44	123.67	120.30
85	5	2607	G	N1-C2-N3	8.44	128.96	123.90
85	5	2879	C	N3-C4-N4	-8.44	112.09	118.00
85	5	1600	U	OP1-P-OP2	-8.44	106.95	119.60
85	5	2711	C	C4-C5-C6	8.44	121.62	117.40
85	5	3209	A	C5-C6-N6	8.44	130.45	123.70
1	2	1094	G	N9-C4-C5	-8.43	102.03	105.40
36	1	2187	G	OP2-P-O3'	8.43	123.75	105.20
80	6	784	C	N3-C2-O2	8.43	127.80	121.90
85	5	1848	G	C5-C6-O6	-8.43	123.54	128.60
85	5	337	G	N1-C6-O6	8.43	124.96	119.90
85	5	1518	U	OP1-P-O3'	8.43	123.75	105.20
85	5	2889	C	N3-C4-C5	8.43	125.27	121.90
36	1	641	C	C5-C6-N1	8.43	125.22	121.00
36	1	1113	G	N9-C4-C5	8.43	108.77	105.40
36	1	1483	G	N3-C2-N2	-8.43	114.00	119.90
36	1	3143	C	C4-C5-C6	8.43	121.61	117.40
36	1	3209	A	C4-C5-N7	8.43	114.92	110.70
80	6	1443	U	N1-C2-N3	8.43	119.96	114.90
85	5	1114	U	C2-N3-C4	8.43	132.06	127.00
1	2	748	G	C5-C6-N1	8.43	115.71	111.50
36	1	204	A	C5-N7-C8	-8.43	99.69	103.90
36	1	3138	U	N1-C2-O2	-8.43	116.90	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	615	U	C5-C4-O4	-8.43	120.84	125.90
85	5	2520	A	N7-C8-N9	8.43	118.02	113.80
1	2	685	G	N1-C6-O6	8.43	124.95	119.90
36	1	223	U	N1-C2-O2	-8.43	116.90	122.80
36	1	703	G	C4-C5-N7	-8.43	107.43	110.80
36	1	803	C	C4-C5-C6	-8.43	113.19	117.40
36	1	1249	G	N1-C6-O6	8.43	124.96	119.90
38	4	53	A	N1-C2-N3	8.43	133.51	129.30
85	5	40	A	N1-C6-N6	8.43	123.66	118.60
36	1	1120	A	C2-N3-C4	8.43	114.81	110.60
36	1	1188	U	OP1-P-OP2	-8.43	106.96	119.60
36	1	1804	A	N1-C2-N3	8.43	133.51	129.30
85	5	816	A	C2-N3-C4	8.43	114.81	110.60
85	5	2243	A	C8-N9-C4	8.43	109.17	105.80
85	5	2273	G	C6-N1-C2	8.43	130.16	125.10
51	m5	109	ARG	NE-CZ-NH1	-8.43	116.09	120.30
85	5	2717	U	C4-C5-C6	8.43	124.75	119.70
85	5	3264	G	C5-C6-O6	-8.43	123.55	128.60
38	8	79	A	N1-C6-N6	8.43	123.66	118.60
1	2	920	C	C5-C6-N1	8.42	125.21	121.00
85	5	2360	C	OP1-P-OP2	-8.42	106.96	119.60
36	1	643	U	O5'-P-OP2	-8.42	98.12	105.70
36	1	648	C	C4-C5-C6	8.42	121.61	117.40
36	1	1335	C	N3-C2-O2	-8.42	116.00	121.90
36	1	1340	G	N3-C2-N2	-8.42	114.00	119.90
80	6	315	A	C4-C5-N7	8.42	114.91	110.70
85	5	346	C	C2-N3-C4	-8.42	115.69	119.90
85	5	350	C	C5-C4-N4	8.42	126.10	120.20
85	5	650	C	N1-C2-O2	-8.42	113.85	118.90
85	5	1003	A	C2-N3-C4	-8.42	106.39	110.60
85	5	1133	A	C8-N9-C1'	-8.42	112.54	127.70
85	5	3155	U	C5-C4-O4	8.42	130.95	125.90
85	5	2200	U	N3-C2-O2	-8.42	116.30	122.20
36	1	2642	A	N1-C2-N3	8.42	133.51	129.30
1	2	596	C	N3-C4-C5	-8.42	118.53	121.90
1	2	599	A	C4-C5-N7	-8.42	106.49	110.70
1	2	1100	U	C5-C6-N1	8.42	126.91	122.70
36	1	217	U	C4-C5-C6	8.42	124.75	119.70
80	6	1513	G	C4-C5-N7	-8.42	107.43	110.80
36	1	151	A	C5-C6-N6	-8.42	116.96	123.70
36	1	291	C	C6-N1-C2	-8.42	116.93	120.30
36	1	1672	U	C4-C5-C6	-8.42	114.65	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1936	A	N1-C6-N6	-8.42	113.55	118.60
36	1	2322	C	C6-N1-C2	-8.42	116.93	120.30
36	1	2888	U	C6-N1-C2	8.42	126.05	121.00
36	1	3243	A	C6-N1-C2	-8.42	113.55	118.60
80	6	600	U	N3-C4-O4	8.42	125.29	119.40
80	6	969	C	C5-C6-N1	-8.42	116.79	121.00
85	5	1698	C	N3-C4-C5	-8.42	118.53	121.90
85	5	1869	C	C4-C5-C6	-8.42	113.19	117.40
85	5	2244	A	C6-N1-C2	-8.42	113.55	118.60
85	5	2345	A	C5-N7-C8	-8.42	99.69	103.90
85	5	3276	G	C2-N3-C4	8.42	116.11	111.90
37	7	31	U	C6-N1-C2	-8.42	115.95	121.00
85	5	908	G	N7-C8-N9	8.42	117.31	113.10
1	2	1158	U	N3-C2-O2	8.42	128.09	122.20
36	1	417	A	C4-C5-N7	8.42	114.91	110.70
36	1	677	A	N9-C4-C5	8.42	109.17	105.80
36	1	830	A	C8-N9-C4	-8.42	102.43	105.80
36	1	1781	C	C6-N1-C2	-8.42	116.93	120.30
36	1	2187	G	C8-N9-C4	-8.42	103.03	106.40
36	1	2637	A	N1-C6-N6	-8.42	113.55	118.60
80	6	432	G	C2-N3-C4	-8.42	107.69	111.90
85	5	1111	U	C4-C5-C6	-8.42	114.65	119.70
85	5	2838	A	C5-C6-N1	8.42	121.91	117.70
85	5	1898	G	C4-C5-C6	8.42	123.85	118.80
85	5	3067	C	N3-C2-O2	-8.42	116.01	121.90
36	1	597	G	N1-C6-O6	-8.41	114.85	119.90
36	1	1419	A	OP1-P-OP2	-8.41	106.98	119.60
36	1	2222	A	N1-C2-N3	8.41	133.51	129.30
85	5	1386	A	C5-C6-N1	-8.41	113.49	117.70
36	1	52	A	OP1-P-OP2	8.41	132.22	119.60
36	1	1843	C	C5-C6-N1	-8.41	116.79	121.00
36	1	1860	G	C4-C5-N7	-8.41	107.44	110.80
36	1	2439	A	N1-C6-N6	8.41	123.65	118.60
36	1	2853	A	C8-N9-C4	-8.41	102.44	105.80
36	1	3298	C	N1-C2-N3	-8.41	113.31	119.20
36	1	3389	U	N1-C2-O2	8.41	128.69	122.80
40	L3	4	ARG	NE-CZ-NH1	-8.41	116.09	120.30
85	5	1346	G	C4-C5-C6	8.41	123.85	118.80
85	5	2587	U	N3-C4-O4	8.41	125.29	119.40
80	6	1645	G	N3-C4-C5	8.41	132.81	128.60
85	5	1393	A	C5-C6-N6	8.41	130.43	123.70
85	5	1714	A	C5-C6-N1	-8.41	113.49	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1802	C	N1-C2-O2	-8.41	113.85	118.90
85	5	2399	A	N7-C8-N9	8.41	118.01	113.80
48	m1	137	ARG	NE-CZ-NH1	-8.41	116.09	120.30
36	1	51	A	O5'-P-OP2	-8.41	98.13	105.70
36	1	216	G	C8-N9-C4	-8.41	103.04	106.40
36	1	267	G	N9-C4-C5	-8.41	102.04	105.40
36	1	644	G	C4-C5-N7	-8.41	107.44	110.80
36	1	1589	A	C4-C5-N7	-8.41	106.50	110.70
36	1	1776	G	N1-C6-O6	8.41	124.95	119.90
36	1	1839	A	C5-N7-C8	-8.41	99.69	103.90
36	1	2173	U	C5-C4-O4	8.41	130.95	125.90
38	4	110	C	N3-C2-O2	8.41	127.79	121.90
80	6	53	G	C6-N1-C2	-8.41	120.05	125.10
85	5	2300	G	C2-N3-C4	8.41	116.11	111.90
37	7	76	A	C6-N1-C2	8.41	123.65	118.60
36	1	3177	G	C5-C6-O6	8.41	133.65	128.60
85	5	1769	G	C4-C5-N7	8.41	114.16	110.80
85	5	1802	C	C5-C6-N1	-8.41	116.80	121.00
85	5	2133	U	N3-C2-O2	8.41	128.09	122.20
85	5	2230	C	N3-C2-O2	8.41	127.79	121.90
85	5	2579	G	C8-N9-C4	-8.41	103.04	106.40
36	1	19	U	C5-C4-O4	8.41	130.94	125.90
36	1	564	G	N7-C8-N9	-8.41	108.90	113.10
36	1	724	U	C5-C4-O4	-8.41	120.86	125.90
36	1	1794	G	N1-C2-N3	8.41	128.94	123.90
85	5	954	U	C6-N1-C2	-8.41	115.95	121.00
38	8	41	A	O5'-P-OP1	-8.41	98.13	105.70
38	4	63	G	N7-C8-N9	8.41	117.30	113.10
80	6	1773	C	N1-C2-O2	-8.41	113.86	118.90
37	7	42	A	C2-N3-C4	-8.41	106.40	110.60
36	1	1002	A	C5-N7-C8	-8.40	99.70	103.90
80	6	1511	U	C5-C6-N1	8.40	126.90	122.70
85	5	595	G	C2-N3-C4	-8.40	107.70	111.90
85	5	679	U	OP1-P-OP2	8.40	132.21	119.60
85	5	3014	U	N1-C2-N3	8.40	119.94	114.90
36	1	3375	A	C8-N9-C4	-8.40	102.44	105.80
85	5	189	G	C5-C6-O6	8.40	133.64	128.60
85	5	518	G	N1-C2-N3	8.40	128.94	123.90
85	5	556	U	N1-C2-N3	8.40	119.94	114.90
85	5	902	G	C4-C5-N7	8.40	114.16	110.80
85	5	1178	G	OP1-P-OP2	8.40	132.21	119.60
85	5	1075	A	N7-C8-N9	-8.40	109.60	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2395	G	C8-N9-C4	-8.40	103.04	106.40
85	5	3248	C	N3-C4-N4	8.40	123.88	118.00
36	1	63	A	C6-C5-N7	-8.40	126.42	132.30
36	1	967	A	N1-C6-N6	-8.40	113.56	118.60
36	1	1480	G	C5-N7-C8	-8.40	100.10	104.30
85	5	286	U	N1-C2-O2	8.40	128.68	122.80
85	5	966	U	O5'-P-OP1	-8.40	98.14	105.70
85	5	1868	G	N3-C4-N9	8.40	131.04	126.00
85	5	2386	A	C5-N7-C8	-8.40	99.70	103.90
85	5	2609	A	C8-N9-C4	8.40	109.16	105.80
85	5	3184	A	O5'-P-OP1	8.40	120.78	110.70
38	8	81	U	C4-C5-C6	-8.40	114.66	119.70
38	8	143	U	C4-C5-C6	8.40	124.74	119.70
36	1	632	G	C5-C6-O6	-8.40	123.56	128.60
36	1	703	G	C6-C5-N7	8.40	135.44	130.40
36	1	3361	G	OP1-P-OP2	8.40	132.20	119.60
80	6	1674	C	C6-N1-C2	8.40	123.66	120.30
85	5	146	U	C2-N3-C4	-8.40	121.96	127.00
85	5	2435	G	N3-C4-C5	8.40	132.80	128.60
37	7	77	G	N3-C4-N9	8.40	131.04	126.00
1	2	110	U	C5-C6-N1	8.40	126.90	122.70
36	1	806	A	N3-C4-C5	8.40	132.68	126.80
36	1	1362	G	C8-N9-C4	8.40	109.76	106.40
36	1	2320	A	C2-N3-C4	-8.40	106.40	110.60
36	1	2399	A	C5-C6-N1	8.40	121.90	117.70
36	1	3174	A	N7-C8-N9	8.40	118.00	113.80
36	1	3186	A	N9-C4-C5	8.40	109.16	105.80
41	L4	107	ARG	NE-CZ-NH1	-8.40	116.10	120.30
85	5	521	A	O5'-P-OP1	-8.40	98.14	105.70
80	6	483	A	C5-C6-N1	-8.40	113.50	117.70
85	5	185	C	C4-C5-C6	8.40	121.60	117.40
85	5	1366	A	N1-C6-N6	-8.40	113.56	118.60
85	5	1678	G	C2-N3-C4	8.40	116.10	111.90
85	5	2520	A	O5'-P-OP2	8.40	120.78	110.70
85	5	2633	U	N3-C4-C5	-8.40	109.56	114.60
38	8	114	G	C5-C6-N1	-8.40	107.30	111.50
36	1	412	G	C4-C5-N7	-8.39	107.44	110.80
36	1	973	A	C4-C5-C6	8.39	121.20	117.00
36	1	2413	A	N1-C6-N6	-8.39	113.56	118.60
36	1	643	U	N3-C4-C5	-8.39	109.56	114.60
36	1	1167	U	O5'-P-OP1	8.39	120.77	110.70
36	1	1448	U	OP1-P-O3'	-8.39	86.73	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1767	C	N3-C2-O2	-8.39	116.02	121.90
36	1	2602	G	C6-N1-C2	-8.39	120.06	125.10
36	1	3013	U	C6-N1-C2	8.39	126.04	121.00
80	6	1759	C	N3-C2-O2	8.39	127.78	121.90
85	5	2897	A	C8-N9-C4	8.39	109.16	105.80
85	5	147	U	N3-C2-O2	8.39	128.07	122.20
85	5	583	G	C2-N3-C4	-8.39	107.70	111.90
85	5	1420	C	C5-C4-N4	8.39	126.08	120.20
37	7	29	C	N1-C2-N3	8.39	125.08	119.20
1	2	1327	A	C8-N9-C4	8.39	109.16	105.80
36	1	1212	A	C5-N7-C8	-8.39	99.70	103.90
85	5	171	G	N3-C4-C5	-8.39	124.40	128.60
1	2	25	C	N3-C4-C5	8.39	125.26	121.90
36	1	629	U	OP2-P-O3'	8.39	123.66	105.20
36	1	2440	G	C5-N7-C8	8.39	108.50	104.30
36	1	2765	C	C2-N3-C4	-8.39	115.70	119.90
80	6	798	C	N3-C4-C5	-8.39	118.54	121.90
85	5	199	A	C2-N3-C4	-8.39	106.41	110.60
85	5	1269	U	C6-N1-C2	-8.39	115.97	121.00
85	5	1790	G	C6-C5-N7	-8.39	125.36	130.40
85	5	2657	A	N7-C8-N9	8.39	118.00	113.80
85	5	2973	G	C5-C6-N1	-8.39	107.31	111.50
37	7	88	G	OP1-P-OP2	8.39	132.19	119.60
85	5	3112	G	O5'-P-OP1	-8.39	98.15	105.70
36	1	1333	C	C6-N1-C2	-8.39	116.94	120.30
36	1	2216	G	N9-C4-C5	8.39	108.75	105.40
85	5	1338	C	C6-N1-C2	-8.39	116.94	120.30
85	5	1555	U	N3-C4-O4	-8.39	113.53	119.40
38	4	33	A	C4-C5-C6	8.39	121.19	117.00
38	4	54	A	C8-N9-C4	-8.39	102.44	105.80
85	5	1413	G	C8-N9-C1'	8.39	137.90	127.00
85	5	1434	G	N7-C8-N9	8.39	117.29	113.10
85	5	2970	C	OP1-P-OP2	8.39	132.18	119.60
85	5	3117	C	C5-C6-N1	-8.39	116.81	121.00
85	5	3235	C	N1-C2-O2	8.39	123.93	118.90
85	5	3330	A	N1-C6-N6	-8.39	113.57	118.60
1	2	72	A	C6-N1-C2	8.38	123.63	118.60
36	1	108	A	C2-N3-C4	8.38	114.79	110.60
36	1	883	A	O5'-P-OP1	8.39	120.76	110.70
36	1	1079	A	N9-C4-C5	8.39	109.15	105.80
36	1	2239	G	N1-C2-N2	8.39	123.75	116.20
36	1	2761	G	C5-C6-N1	-8.39	107.31	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2753	G	N1-C2-N3	8.39	128.93	123.90
36	1	317	A	C8-N9-C4	-8.38	102.45	105.80
36	1	1481	A	N7-C8-N9	8.38	117.99	113.80
36	1	1767	C	C4-C5-C6	8.38	121.59	117.40
36	1	2761	G	C4-C5-N7	-8.38	107.45	110.80
36	1	3344	A	O4'-C1'-N9	8.38	114.91	108.20
85	5	266	A	N9-C4-C5	8.38	109.15	105.80
85	5	411	U	N3-C4-O4	8.38	125.27	119.40
85	5	858	A	C2-N3-C4	-8.38	106.41	110.60
85	5	1939	G	C2-N3-C4	-8.38	107.71	111.90
85	5	2211	U	N3-C2-O2	-8.38	116.33	122.20
85	5	2774	C	C2-N3-C4	-8.38	115.71	119.90
85	5	2964	G	C5-C6-N1	8.38	115.69	111.50
85	5	3313	U	C5-C4-O4	8.38	130.93	125.90
37	7	95	A	N3-C4-C5	-8.38	120.93	126.80
1	2	1010	A	C8-N9-C4	-8.38	102.45	105.80
36	1	11	A	C5-C6-N1	-8.38	113.51	117.70
36	1	1414	G	C5-C6-O6	-8.38	123.57	128.60
85	5	569	A	C5-C6-N1	8.38	121.89	117.70
85	5	834	U	N3-C4-O4	-8.38	113.53	119.40
36	1	373	A	C5-C6-N1	8.38	121.89	117.70
36	1	1499	C	O5'-P-OP1	8.38	120.76	110.70
80	6	765	G	N1-C2-N2	8.38	123.74	116.20
85	5	511	G	N3-C2-N2	-8.38	114.03	119.90
85	5	718	G	C6-C5-N7	-8.38	125.37	130.40
85	5	1170	A	C2-N3-C4	-8.38	106.41	110.60
85	5	2681	U	N1-C2-N3	8.38	119.93	114.90
85	5	3049	A	N7-C8-N9	-8.38	109.61	113.80
1	2	99	C	C2-N3-C4	-8.38	115.71	119.90
36	1	1390	A	N1-C2-N3	8.38	133.49	129.30
36	1	2416	U	N3-C4-C5	8.38	119.63	114.60
85	5	3311	C	C5-C6-N1	8.38	125.19	121.00
85	5	596	C	C6-N1-C2	-8.38	116.95	120.30
85	5	1518	U	N3-C4-C5	-8.38	109.57	114.60
85	5	2774	C	N1-C2-N3	8.38	125.06	119.20
38	8	110	C	OP2-P-O3'	8.38	123.63	105.20
1	2	1489	G	C2-N3-C4	8.38	116.09	111.90
36	1	836	A	N1-C6-N6	8.38	123.63	118.60
36	1	839	C	N1-C2-O2	-8.38	113.88	118.90
36	1	959	C	C5-C6-N1	-8.38	116.81	121.00
36	1	3102	G	C4-C5-N7	-8.38	107.45	110.80
80	6	1577	A	N1-C6-N6	8.38	123.62	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1476	G	N1-C2-N2	-8.38	108.66	116.20
38	8	25	G	N1-C2-N3	8.38	128.93	123.90
36	1	2843	U	C5-C4-O4	8.37	130.92	125.90
85	5	1126	G	C8-N9-C4	-8.37	103.05	106.40
85	5	2863	G	N1-C2-N3	8.37	128.92	123.90
85	5	3241	G	C2-N3-C4	-8.38	107.71	111.90
36	1	2722	U	N3-C4-O4	8.37	125.26	119.40
80	6	923	A	C8-N9-C4	8.37	109.15	105.80
85	5	245	U	C5-C6-N1	-8.37	118.51	122.70
40	13	14	LEU	CB-CG-CD2	-8.37	96.77	111.00
36	1	615	U	C5-C4-O4	8.37	130.92	125.90
36	1	2682	C	N3-C2-O2	-8.37	116.04	121.90
36	1	3089	C	C6-N1-C2	-8.37	116.95	120.30
80	6	555	A	C6-N1-C2	-8.37	113.58	118.60
80	6	1335	U	N3-C2-O2	-8.37	116.34	122.20
85	5	2243	A	N7-C8-N9	-8.37	109.61	113.80
85	5	2306	C	N3-C4-C5	-8.37	118.55	121.90
85	5	3318	G	O5'-P-OP2	8.37	120.75	110.70
36	1	279	U	N3-C2-O2	-8.37	116.34	122.20
36	1	3118	C	C6-N1-C2	-8.37	116.95	120.30
37	3	78	U	N3-C4-O4	8.37	125.26	119.40
37	3	88	G	C5-N7-C8	8.37	108.48	104.30
38	4	9	A	C8-N9-C4	8.37	109.15	105.80
38	4	137	C	C6-N1-C2	8.37	123.65	120.30
80	6	157	A	C6-N1-C2	-8.37	113.58	118.60
80	6	1440	C	C5-C6-N1	8.37	125.19	121.00
85	5	1145	G	N1-C6-O6	-8.37	114.88	119.90
85	5	2367	A	O5'-P-OP2	-8.37	98.17	105.70
85	5	2863	G	N3-C4-C5	-8.37	124.42	128.60
38	4	79	A	C5-C6-N1	-8.37	113.52	117.70
85	5	31	C	N1-C2-N3	8.37	125.06	119.20
85	5	95	A	C2-N3-C4	8.37	114.78	110.60
85	5	510	G	C5-C6-N1	8.37	115.68	111.50
85	5	568	G	C4-C5-N7	8.37	114.15	110.80
85	5	777	U	C2-N3-C4	8.37	132.02	127.00
85	5	2282	U	C4-C5-C6	8.37	124.72	119.70
38	8	140	G	N7-C8-N9	8.37	117.28	113.10
1	2	1011	C	N3-C4-N4	8.37	123.86	118.00
36	1	1593	A	O5'-P-OP2	-8.37	98.17	105.70
80	6	625	C	N1-C2-O2	-8.37	113.88	118.90
85	5	1315	U	N3-C2-O2	-8.37	116.34	122.20
85	5	2958	A	N7-C8-N9	8.37	117.98	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3059	G	O5'-P-OP1	-8.37	98.17	105.70
36	1	756	U	N1-C2-N3	8.36	119.92	114.90
36	1	1005	G	C2-N3-C4	-8.36	107.72	111.90
36	1	2114	C	N3-C4-C5	8.37	125.25	121.90
80	6	299	A	O5'-P-OP2	-8.36	98.17	105.70
80	6	1134	C	O5'-P-OP2	-8.37	98.17	105.70
80	6	1757	G	C5-N7-C8	8.37	108.48	104.30
85	5	846	A	C2-N3-C4	-8.37	106.42	110.60
85	5	2926	A	O5'-P-OP1	8.37	120.74	110.70
1	2	109	G	C4-C5-C6	8.36	123.82	118.80
1	2	977	G	C8-N9-C4	8.36	109.75	106.40
36	1	1114	U	N3-C2-O2	-8.36	116.35	122.20
85	5	698	U	N3-C2-O2	8.36	128.05	122.20
36	1	1423	C	N3-C4-C5	-8.36	118.56	121.90
36	1	1682	U	C2-N3-C4	8.36	132.02	127.00
36	1	1831	U	C5-C6-N1	8.36	126.88	122.70
36	1	2400	G	C5-N7-C8	-8.36	100.12	104.30
36	1	2553	U	C5-C4-O4	8.36	130.92	125.90
36	1	2608	G	O5'-P-OP2	-8.36	98.17	105.70
36	1	3017	A	N1-C2-N3	8.36	133.48	129.30
68	O2	66	LEU	CB-CG-CD1	-8.36	96.78	111.00
80	6	1388	A	C8-N9-C4	-8.36	102.45	105.80
85	5	416	A	C4-C5-C6	8.36	121.18	117.00
85	5	651	G	N1-C6-O6	8.36	124.92	119.90
85	5	890	C	N3-C2-O2	-8.36	116.05	121.90
85	5	660	A	C2-N3-C4	8.36	114.78	110.60
85	5	1392	G	N3-C4-C5	-8.36	124.42	128.60
85	5	1517	G	N9-C4-C5	8.36	108.75	105.40
85	5	2769	A	C5-C6-N6	8.36	130.39	123.70
85	5	2826	U	O5'-P-OP1	8.36	120.73	110.70
38	8	61	A	C5-C6-N1	8.36	121.88	117.70
85	5	2942	C	C2-N1-C1'	8.36	128.00	118.80
85	5	3050	U	N3-C4-O4	-8.36	113.55	119.40
37	7	23	A	OP1-P-OP2	-8.36	107.06	119.60
1	2	1526	A	C8-N9-C4	8.36	109.14	105.80
36	1	625	G	C5-N7-C8	8.36	108.48	104.30
36	1	2921	U	C4-C5-C6	8.36	124.72	119.70
85	5	1086	C	O5'-P-OP1	8.36	120.73	110.70
85	5	1452	A	C6-N1-C2	-8.36	113.58	118.60
1	2	598	U	C5-C4-O4	8.36	130.91	125.90
36	1	691	A	O5'-P-OP1	-8.36	98.18	105.70
85	5	1346	G	N1-C2-N3	8.36	128.92	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2355	G	C4-C5-C6	8.36	123.81	118.80
38	4	121	U	N3-C2-O2	-8.36	116.35	122.20
85	5	695	C	N3-C4-N4	8.36	123.85	118.00
85	5	1051	U	N3-C4-O4	8.36	125.25	119.40
85	5	1165	A	N3-C4-C5	-8.36	120.95	126.80
85	5	1641	U	N1-C2-O2	-8.36	116.95	122.80
85	5	2403	G	C2-N3-C4	-8.36	107.72	111.90
85	5	3181	C	C4-C5-C6	8.36	121.58	117.40
36	1	418	A	C8-N9-C4	8.36	109.14	105.80
36	1	655	C	N3-C2-O2	-8.36	116.05	121.90
36	1	734	C	N3-C4-C5	-8.36	118.56	121.90
36	1	930	U	N1-C2-O2	-8.36	116.95	122.80
36	1	2978	U	C5-C6-N1	-8.36	118.52	122.70
80	6	128	U	N1-C2-N3	8.36	119.91	114.90
80	6	412	A	O5'-P-OP1	-8.36	98.18	105.70
80	6	936	G	N1-C2-N2	8.36	123.72	116.20
85	5	600	G	C4-C5-N7	8.36	114.14	110.80
85	5	947	G	N3-C4-C5	8.36	132.78	128.60
85	5	1373	A	C6-N1-C2	-8.36	113.59	118.60
85	5	2751	G	N3-C4-C5	8.36	132.78	128.60
38	8	79	A	N7-C8-N9	8.36	117.98	113.80
85	5	1446	A	C6-C5-N7	8.36	138.15	132.30
85	5	1678	G	C8-N9-C4	-8.36	103.06	106.40
49	m3	91	ARG	NE-CZ-NH2	-8.36	116.12	120.30
36	1	125	C	N3-C4-N4	-8.35	112.15	118.00
36	1	367	A	N9-C4-C5	8.35	109.14	105.80
36	1	870	G	C5-N7-C8	-8.35	100.12	104.30
36	1	2195	C	N3-C4-C5	-8.35	118.56	121.90
36	1	2670	G	C5-N7-C8	-8.35	100.12	104.30
1	2	374	U	C5-C6-N1	8.35	126.88	122.70
36	1	789	A	N9-C4-C5	8.35	109.14	105.80
36	1	1127	G	C4-C5-N7	8.35	114.14	110.80
36	1	1604	G	C2-N3-C4	8.35	116.08	111.90
36	1	2132	C	C5-C4-N4	-8.35	114.35	120.20
36	1	2412	G	C4-C5-N7	-8.35	107.46	110.80
80	6	1652	C	C5-C6-N1	8.35	125.18	121.00
85	5	3091	A	N1-C2-N3	8.35	133.48	129.30
36	1	2819	A	C5-C6-N6	-8.35	117.02	123.70
80	6	1724	U	N3-C4-O4	-8.35	113.55	119.40
85	5	266	A	N1-C2-N3	8.35	133.48	129.30
85	5	443	G	O5'-P-OP1	-8.35	98.18	105.70
85	5	712	G	C8-N9-C4	8.35	109.74	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1949	G	N1-C2-N3	-8.35	118.89	123.90
85	5	3207	U	N1-C2-O2	-8.35	116.95	122.80
36	1	982	C	C4-C5-C6	-8.35	113.22	117.40
36	1	1530	U	OP1-P-OP2	8.35	132.12	119.60
36	1	2274	U	OP1-P-OP2	-8.35	107.07	119.60
36	1	3000	A	N1-C2-N3	8.35	133.47	129.30
37	3	95	A	C8-N9-C4	-8.35	102.46	105.80
80	6	36	C	O5'-P-OP1	8.35	120.72	110.70
80	6	410	A	OP1-P-OP2	8.35	132.12	119.60
85	5	1447	G	O5'-P-OP1	-8.35	98.19	105.70
85	5	1634	G	N1-C6-O6	8.35	124.91	119.90
85	5	2514	U	N3-C4-C5	-8.35	109.59	114.60
1	2	391	A	C8-N9-C4	8.35	109.14	105.80
1	2	1619	C	N3-C4-C5	-8.35	118.56	121.90
36	1	806	A	C5-N7-C8	-8.35	99.73	103.90
36	1	1764	U	C5-C4-O4	-8.35	120.89	125.90
36	1	2403	G	C4-C5-C6	8.35	123.81	118.80
80	6	229	U	C5-C6-N1	8.35	126.87	122.70
80	6	1236	A	OP2-P-O3'	8.35	123.56	105.20
85	5	88	A	C8-N9-C4	8.35	109.14	105.80
85	5	342	A	C2-N3-C4	8.35	114.77	110.60
85	5	371	G	C6-N1-C2	8.35	130.11	125.10
85	5	1339	C	C6-N1-C2	-8.35	116.96	120.30
85	5	3375	A	C6-C5-N7	-8.35	126.46	132.30
36	1	1103	A	C5-N7-C8	8.35	108.07	103.90
1	2	1003	A	N1-C6-N6	-8.35	113.59	118.60
36	1	201	A	N7-C8-N9	-8.35	109.63	113.80
36	1	928	C	C4-C5-C6	8.35	121.57	117.40
36	1	2573	G	C5-C6-O6	8.35	133.61	128.60
36	1	1321	G	N3-C2-N2	-8.35	114.06	119.90
85	5	112	U	O5'-P-OP1	-8.35	98.19	105.70
85	5	2913	C	C5-C6-N1	8.35	125.17	121.00
85	5	2959	C	C6-N1-C2	-8.35	116.96	120.30
85	5	2177	G	N3-C2-N2	-8.35	114.06	119.90
85	5	2733	A	C5-N7-C8	8.35	108.07	103.90
37	7	57	G	C4-C5-N7	8.35	114.14	110.80
38	8	103	G	C6-N1-C2	-8.35	120.09	125.10
1	2	307	G	N1-C2-N3	8.34	128.91	123.90
1	2	748	G	N1-C2-N3	-8.34	118.89	123.90
36	1	88	A	C4-C5-C6	8.34	121.17	117.00
36	1	411	U	C5-C6-N1	-8.34	118.53	122.70
38	4	25	G	O5'-P-OP2	-8.34	98.19	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1590	G	N7-C8-N9	8.34	117.27	113.10
85	5	2413	A	C5-C6-N6	-8.34	117.03	123.70
85	5	2753	G	N1-C2-N2	-8.34	108.69	116.20
85	5	3385	U	N3-C4-O4	8.34	125.24	119.40
36	1	2321	A	C2-N3-C4	-8.34	106.43	110.60
37	3	94	C	OP1-P-O3'	8.34	123.56	105.20
85	5	80	G	C5-C6-O6	-8.34	123.59	128.60
85	5	624	G	C8-N9-C4	8.34	109.74	106.40
85	5	759	U	N3-C4-O4	8.34	125.24	119.40
1	2	1148	G	C5-C6-O6	-8.34	123.60	128.60
36	1	2806	U	N3-C4-C5	-8.34	109.60	114.60
85	5	3279	A	C5-C6-N6	8.34	130.37	123.70
36	1	361	A	N1-C6-N6	-8.34	113.60	118.60
36	1	363	G	N3-C4-N9	8.34	131.00	126.00
36	1	1490	A	C5-C6-N1	-8.34	113.53	117.70
85	5	1217	A	N9-C4-C5	8.34	109.14	105.80
85	5	3106	A	C5-N7-C8	-8.34	99.73	103.90
38	8	75	G	N7-C8-N9	8.34	117.27	113.10
36	1	280	U	C5-C6-N1	-8.34	118.53	122.70
85	5	1085	A	O5'-P-OP1	-8.34	98.20	105.70
85	5	2369	G	N3-C4-C5	-8.34	124.43	128.60
36	1	1476	G	C6-N1-C2	-8.34	120.10	125.10
36	1	2418	G	C5-C6-N1	8.34	115.67	111.50
80	6	637	C	N3-C2-O2	-8.34	116.06	121.90
85	5	792	G	N1-C6-O6	8.34	124.90	119.90
85	5	1158	A	C2-N3-C4	-8.34	106.43	110.60
85	5	1665	C	C5-C4-N4	8.34	126.03	120.20
37	7	83	U	N1-C2-O2	-8.34	116.96	122.80
85	5	3377	G	N7-C8-N9	8.34	117.27	113.10
38	8	52	A	C4-C5-C6	8.34	121.17	117.00
38	8	130	C	N3-C4-N4	8.34	123.84	118.00
36	1	816	A	OP2-P-O3'	8.33	123.53	105.20
36	1	1727	G	C5-C6-N1	8.33	115.67	111.50
36	1	1882	G	N3-C2-N2	-8.33	114.07	119.90
38	4	101	U	N3-C2-O2	-8.33	116.37	122.20
80	6	1127	G	N3-C4-C5	8.33	132.77	128.60
80	6	1281	G	C5-C6-O6	-8.33	123.60	128.60
85	5	858	A	N1-C6-N6	8.33	123.60	118.60
85	5	2626	A	C4-C5-N7	-8.33	106.53	110.70
85	5	2717	U	OP2-P-O3'	8.33	123.53	105.20
38	8	129	C	N3-C2-O2	8.33	127.73	121.90
85	5	2830	G	C8-N9-C1'	-8.33	116.17	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	552	G	C8-N9-C4	-8.33	103.07	106.40
36	1	1066	G	C4-C5-C6	8.33	123.80	118.80
80	6	363	G	C2-N3-C4	-8.33	107.73	111.90
80	6	1680	G	C5-C6-O6	-8.33	123.60	128.60
1	2	837	U	N3-C4-O4	8.33	125.23	119.40
1	2	1267	C	C5-C6-N1	-8.33	116.83	121.00
1	2	1486	A	C5-C6-N6	-8.33	117.04	123.70
36	1	873	C	O5'-P-OP2	8.33	120.69	110.70
36	1	1690	C	C5-C6-N1	-8.33	116.83	121.00
36	1	2161	G	C2-N3-C4	8.33	116.06	111.90
36	1	2321	A	N1-C2-N3	8.33	133.47	129.30
36	1	2363	A	C4-C5-N7	-8.33	106.53	110.70
36	1	3071	U	C4-C5-C6	8.33	124.70	119.70
38	4	138	A	C6-C5-N7	-8.33	126.47	132.30
80	6	274	G	OP1-P-OP2	-8.33	107.11	119.60
80	6	762	A	N1-C6-N6	8.33	123.60	118.60
85	5	508	U	C4-C5-C6	8.33	124.70	119.70
85	5	1634	G	OP1-P-OP2	-8.33	107.10	119.60
85	5	1574	C	C5-C4-N4	8.33	126.03	120.20
85	5	1838	G	C5-C6-N1	8.33	115.66	111.50
38	8	34	U	N3-C4-C5	-8.33	109.60	114.60
36	1	2732	G	C5-C6-N1	8.33	115.66	111.50
36	1	3128	G	C6-N1-C2	-8.33	120.10	125.10
38	4	41	A	C6-C5-N7	8.33	138.13	132.30
80	6	9	U	C2-N3-C4	-8.33	122.00	127.00
80	6	113	U	C6-N1-C2	8.33	126.00	121.00
80	6	386	G	C8-N9-C4	-8.33	103.07	106.40
80	6	1455	G	C6-C5-N7	-8.33	125.40	130.40
85	5	373	A	C6-N1-C2	-8.33	113.60	118.60
85	5	428	A	O5'-P-OP2	8.33	120.69	110.70
85	5	1003	A	C5-N7-C8	-8.33	99.74	103.90
85	5	1093	A	N7-C8-N9	-8.33	109.64	113.80
85	5	1546	A	C5-N7-C8	-8.33	99.74	103.90
85	5	1776	G	N3-C2-N2	-8.33	114.07	119.90
85	5	2790	A	C4-C5-C6	8.33	121.16	117.00
85	5	3137	C	N3-C2-O2	8.33	127.73	121.90
36	1	2947	G	C8-N9-C4	8.32	109.73	106.40
1	2	1274	G	N3-C4-C5	8.32	132.76	128.60
36	1	86	G	OP1-P-OP2	-8.32	107.12	119.60
36	1	1165	A	N3-C4-N9	-8.32	120.74	127.40
36	1	1343	A	C8-N9-C4	8.32	109.13	105.80
36	1	1842	A	O5'-P-OP1	-8.32	98.21	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2642	A	N1-C6-N6	-8.32	113.61	118.60
37	3	95	A	O5'-P-OP2	8.32	120.69	110.70
38	4	11	C	C5-C6-N1	8.32	125.16	121.00
85	5	6	A	N7-C8-N9	-8.32	109.64	113.80
85	5	1135	A	C4-C5-C6	8.32	121.16	117.00
85	5	1188	U	N3-C4-O4	8.32	125.23	119.40
85	5	1211	U	C4-C5-C6	-8.32	114.71	119.70
85	5	1660	C	OP1-P-O3'	8.32	123.52	105.20
85	5	1454	A	C5-N7-C8	-8.32	99.74	103.90
85	5	3062	G	N7-C8-N9	8.32	117.26	113.10
1	2	99	C	C5-C6-N1	-8.32	116.84	121.00
1	2	112	A	O5'-P-OP1	-8.32	98.21	105.70
36	1	647	A	N1-C6-N6	-8.32	113.61	118.60
36	1	713	U	N1-C2-O2	-8.32	116.97	122.80
36	1	945	C	N3-C4-N4	8.32	123.83	118.00
36	1	1871	U	N3-C2-O2	-8.32	116.38	122.20
80	6	1783	C	C5-C4-N4	-8.32	114.38	120.20
85	5	433	A	C4-C5-C6	8.32	121.16	117.00
85	5	504	A	N7-C8-N9	8.32	117.96	113.80
85	5	1480	G	C5-C6-N1	-8.32	107.34	111.50
36	1	2614	G	N3-C4-C5	-8.32	124.44	128.60
80	6	399	A	C8-N9-C4	8.32	109.13	105.80
85	5	1374	G	C5-N7-C8	-8.32	100.14	104.30
85	5	1788	C	C6-N1-C2	-8.32	116.97	120.30
85	5	2275	A	C5-C6-N6	-8.32	117.05	123.70
85	5	2747	A	N1-C2-N3	8.32	133.46	129.30
38	8	48	A	N7-C8-N9	8.32	117.96	113.80
36	1	1334	U	N3-C4-O4	8.32	125.22	119.40
36	1	1565	G	C8-N9-C4	-8.32	103.07	106.40
36	1	2165	G	N7-C8-N9	8.32	117.26	113.10
85	5	386	A	C5-C6-N1	-8.32	113.54	117.70
36	1	1474	A	N9-C4-C5	8.32	109.13	105.80
36	1	1914	G	C6-N1-C2	-8.32	120.11	125.10
38	4	8	C	C5-C6-N1	-8.32	116.84	121.00
38	4	133	G	N3-C2-N2	-8.32	114.08	119.90
80	6	407	A	C8-N9-C4	-8.32	102.47	105.80
80	6	1527	C	C6-N1-C2	8.32	123.63	120.30
85	5	1404	G	C8-N9-C4	-8.32	103.07	106.40
85	5	1552	G	C4-C5-N7	8.32	114.13	110.80
85	5	2160	G	N1-C2-N3	8.32	128.89	123.90
85	5	2317	A	C2-N3-C4	8.32	114.76	110.60
37	7	10	C	N1-C2-N3	8.32	125.02	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	88	U	C6-N1-C2	-8.31	116.01	121.00
36	1	277	G	N3-C4-C5	-8.31	124.44	128.60
36	1	344	A	C4-C5-C6	-8.31	112.84	117.00
36	1	672	A	C4-C5-C6	8.31	121.16	117.00
36	1	2288	G	N1-C2-N3	8.31	128.89	123.90
36	1	3365	U	C5-C6-N1	-8.31	118.54	122.70
80	6	127	G	C2-N3-C4	-8.31	107.74	111.90
85	5	2883	U	N1-C2-O2	-8.31	116.98	122.80
36	1	2246	G	N9-C4-C5	8.31	108.72	105.40
36	1	2965	U	C5-C4-O4	-8.31	120.91	125.90
38	4	14	C	C4-C5-C6	-8.31	113.24	117.40
85	5	776	U	N1-C2-N3	8.31	119.89	114.90
85	5	783	A	C5-C6-N1	-8.31	113.54	117.70
85	5	1130	A	OP1-P-OP2	8.31	132.07	119.60
85	5	2878	G	N7-C8-N9	8.31	117.26	113.10
85	5	3197	G	C4-C5-N7	-8.31	107.47	110.80
37	7	92	A	C8-N9-C4	8.31	109.12	105.80
36	1	2642	A	C2-N3-C4	-8.31	106.44	110.60
85	5	582	G	C2-N3-C4	-8.31	107.74	111.90
36	1	154	U	C4-C5-C6	8.31	124.69	119.70
36	1	283	G	C8-N9-C4	-8.31	103.08	106.40
36	1	1843	C	C4-C5-C6	8.31	121.56	117.40
41	L4	118	LYS	CD-CE-NZ	-8.31	92.59	111.70
80	6	50	C	C4-C5-C6	8.31	121.56	117.40
80	6	872	G	C2-N3-C4	-8.31	107.75	111.90
85	5	215	G	N9-C4-C5	8.31	108.72	105.40
85	5	534	U	N1-C2-O2	8.31	128.62	122.80
85	5	1706	C	N1-C2-O2	8.31	123.89	118.90
85	5	2663	G	C8-N9-C4	-8.31	103.08	106.40
1	2	1235	C	N1-C2-O2	8.31	123.89	118.90
85	5	1056	U	N3-C4-O4	-8.31	113.58	119.40
36	1	676	G	N3-C4-N9	8.31	130.98	126.00
36	1	867	G	C5-C6-O6	8.31	133.58	128.60
36	1	1078	U	C5-C4-O4	8.31	130.88	125.90
36	1	1116	G	OP2-P-O3'	8.31	123.47	105.20
36	1	1365	G	N1-C6-O6	-8.31	114.92	119.90
36	1	2154	U	C5-C4-O4	-8.31	120.92	125.90
36	1	3099	C	C5-C4-N4	-8.31	114.38	120.20
85	5	2716	U	C6-N1-C2	-8.31	116.02	121.00
85	5	1413	G	C4-C5-C6	-8.31	113.82	118.80
85	5	1913	A	C6-N1-C2	-8.31	113.62	118.60
36	1	198	A	C2-N3-C4	-8.31	106.45	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	366	A	C5-C6-N1	-8.30	113.55	117.70
36	1	430	U	N1-C2-N3	8.30	119.88	114.90
36	1	2169	G	C5-C6-N1	8.30	115.65	111.50
36	1	2400	G	N9-C4-C5	-8.31	102.08	105.40
36	1	2807	U	C5-C6-N1	8.31	126.85	122.70
80	6	396	G	C5-C6-N1	-8.31	107.35	111.50
80	6	1115	U	O5'-P-OP1	8.31	120.67	110.70
85	5	1116	G	N1-C2-N2	-8.31	108.72	116.20
85	5	2820	A	C8-N9-C4	-8.31	102.48	105.80
85	5	3020	U	N3-C4-C5	-8.31	109.62	114.60
85	5	3124	G	O5'-P-OP1	8.31	120.67	110.70
36	1	242	C	N1-C2-O2	8.30	123.88	118.90
36	1	640	U	N3-C4-C5	-8.30	109.62	114.60
36	1	967	A	C5-N7-C8	-8.30	99.75	103.90
36	1	1313	G	C5-C6-O6	-8.30	123.62	128.60
36	1	1607	U	O5'-P-OP2	-8.30	98.22	105.70
38	8	52	A	OP1-P-O3'	8.31	123.47	105.20
38	4	89	A	C8-N9-C4	8.30	109.12	105.80
80	6	322	G	C5-N7-C8	-8.30	100.15	104.30
85	5	2259	A	C2-N3-C4	-8.30	106.45	110.60
80	6	483	A	C6-N1-C2	8.30	123.58	118.60
80	6	1006	C	C5-C6-N1	-8.30	116.85	121.00
80	6	1296	A	C8-N9-C4	8.30	109.12	105.80
85	5	412	G	C4-C5-C6	8.30	123.78	118.80
85	5	978	G	C5-C6-O6	8.30	133.58	128.60
78	q2	8	ARG	NE-CZ-NH1	8.30	124.45	120.30
36	1	685	G	O5'-P-OP1	8.30	120.66	110.70
36	1	1473	G	C6-C5-N7	-8.30	125.42	130.40
36	1	2363	A	OP2-P-O3'	8.30	123.46	105.20
80	6	1100	G	N3-C4-N9	8.30	130.98	126.00
85	5	632	G	N3-C2-N2	-8.30	114.09	119.90
85	5	1698	C	N3-C2-O2	8.30	127.71	121.90
85	5	1700	G	N1-C2-N3	8.30	128.88	123.90
85	5	3048	A	C8-N9-C4	-8.30	102.48	105.80
85	5	2906	C	N3-C2-O2	8.30	127.71	121.90
1	2	145	A	N1-C6-N6	-8.30	113.62	118.60
36	1	1113	G	N3-C2-N2	-8.30	114.09	119.90
36	1	2167	A	O5'-P-OP2	-8.30	98.23	105.70
85	5	3000	A	C4-C5-N7	8.30	114.85	110.70
36	1	744	A	N7-C8-N9	-8.30	109.65	113.80
36	1	1199	C	C4-C5-C6	8.30	121.55	117.40
36	1	2928	C	N3-C4-C5	-8.30	118.58	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3361	G	C5-C6-O6	8.30	133.58	128.60
85	5	941	G	OP1-P-O3'	8.30	123.45	105.20
85	5	1389	G	N7-C8-N9	-8.30	108.95	113.10
85	5	2634	U	N1-C2-N3	8.30	119.88	114.90
37	7	78	U	C6-N1-C2	-8.30	116.02	121.00
85	5	1336	U	OP1-P-OP2	-8.30	107.15	119.60
36	1	387	A	C6-N1-C2	-8.30	113.62	118.60
36	1	637	C	C4-C5-C6	-8.30	113.25	117.40
38	4	101	U	C6-N1-C2	-8.30	116.02	121.00
1	2	414	C	C4-C5-C6	-8.29	113.25	117.40
36	1	589	A	N1-C6-N6	-8.29	113.62	118.60
36	1	2350	C	N1-C2-N3	8.29	125.01	119.20
80	6	338	C	N1-C2-O2	-8.30	113.92	118.90
37	7	17	A	O5'-P-OP2	-8.30	98.23	105.70
36	1	3282	U	C5-C6-N1	8.29	126.85	122.70
80	6	1418	G	N3-C2-N2	-8.29	114.09	119.90
85	5	69	C	N1-C2-O2	-8.29	113.92	118.90
85	5	400	G	C5-C6-O6	-8.29	123.62	128.60
85	5	1087	G	C5-N7-C8	-8.30	100.15	104.30
85	5	1325	U	N1-C2-O2	-8.29	116.99	122.80
85	5	1397	C	N1-C2-N3	8.29	125.01	119.20
85	5	2937	G	C8-N9-C4	-8.29	103.08	106.40
85	5	3317	U	C5-C4-O4	8.29	130.88	125.90
36	1	750	G	C5-C6-N1	-8.29	107.35	111.50
1	2	110	U	N1-C2-O2	8.29	128.60	122.80
1	2	632	U	C6-N1-C2	8.29	125.97	121.00
36	1	1926	C	C5-C6-N1	-8.29	116.85	121.00
36	1	148	G	C2-N3-C4	8.29	116.05	111.90
36	1	801	A	C2-N3-C4	-8.29	106.45	110.60
36	1	1294	A	C6-N1-C2	-8.29	113.62	118.60
36	1	1510	G	C6-C5-N7	-8.29	125.42	130.40
36	1	2376	G	C5-C6-N1	8.29	115.65	111.50
80	6	1674	C	N1-C2-O2	-8.29	113.92	118.90
85	5	2862	U	C2-N3-C4	-8.29	122.02	127.00
36	1	1616	U	C5-C4-O4	8.29	130.88	125.90
36	1	1853	U	N1-C2-N3	8.29	119.88	114.90
36	1	3038	U	N3-C2-O2	8.29	128.00	122.20
36	1	3217	C	N3-C2-O2	-8.29	116.10	121.90
80	6	1002	G	C5-N7-C8	-8.29	100.15	104.30
85	5	784	A	O5'-P-OP1	-8.29	98.24	105.70
85	5	981	U	OP1-P-OP2	8.29	132.04	119.60
85	5	1502	C	O5'-P-OP2	8.29	120.65	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2404	A	C2-N3-C4	8.29	114.75	110.60
36	1	1534	A	C5-C6-N1	8.29	121.84	117.70
85	5	382	U	C6-N1-C2	-8.29	116.03	121.00
1	2	1137	G	C4-C5-N7	8.29	114.11	110.80
1	2	1299	G	N3-C4-C5	-8.29	124.46	128.60
36	1	616	G	C6-N1-C2	-8.29	120.13	125.10
36	1	1013	G	C8-N9-C4	-8.29	103.08	106.40
36	1	2779	A	C2-N3-C4	-8.29	106.46	110.60
36	1	3248	C	C6-N1-C2	-8.29	116.98	120.30
85	5	1195	A	C8-N9-C4	-8.29	102.48	105.80
85	5	1735	G	C2-N3-C4	-8.29	107.75	111.90
37	3	87	G	OP2-P-O3'	8.29	123.44	105.20
85	5	2816	G	C6-C5-N7	-8.29	125.43	130.40
38	8	108	C	N3-C2-O2	-8.29	116.10	121.90
38	4	42	G	C5-C6-O6	8.29	133.57	128.60
80	6	1294	G	C5-C6-O6	-8.29	123.63	128.60
85	5	33	G	N1-C6-O6	-8.29	114.93	119.90
85	5	428	A	OP2-P-O3'	8.29	123.43	105.20
85	5	705	A	C6-N1-C2	-8.29	113.63	118.60
85	5	958	C	N1-C2-N3	8.29	125.00	119.20
85	5	2177	G	N3-C4-N9	-8.29	121.03	126.00
36	1	809	G	O5'-P-OP1	8.29	120.64	110.70
36	1	993	G	C2-N3-C4	8.29	116.04	111.90
36	1	1076	C	C5-C6-N1	-8.29	116.86	121.00
36	1	1472	U	C5-C4-O4	8.29	130.87	125.90
36	1	1181	U	O5'-P-OP2	-8.28	98.24	105.70
36	1	1483	G	N1-C2-N3	8.29	128.87	123.90
36	1	2899	C	C6-N1-C2	8.28	123.61	120.30
36	1	3012	A	C2-N3-C4	8.28	114.74	110.60
80	6	1042	G	N7-C8-N9	8.29	117.24	113.10
80	6	1372	U	C5-C6-N1	-8.28	118.56	122.70
80	6	1668	G	N1-C6-O6	-8.29	114.93	119.90
85	5	344	A	N1-C6-N6	-8.29	113.63	118.60
85	5	695	C	C2-N1-C1'	8.28	127.91	118.80
85	5	903	U	N3-C2-O2	-8.29	116.40	122.20
85	5	1410	U	N1-C2-N3	8.28	119.87	114.90
85	5	1892	G	N3-C2-N2	-8.28	114.10	119.90
85	5	3158	G	N9-C4-C5	8.28	108.71	105.40
38	8	90	U	N3-C4-O4	8.28	125.20	119.40
36	1	632	G	C6-C5-N7	-8.28	125.43	130.40
36	1	934	G	C6-C5-N7	-8.28	125.43	130.40
1	2	337	G	N1-C6-O6	8.28	124.87	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	105	A	O5'-P-OP1	-8.28	98.25	105.70
38	4	124	G	C6-C5-N7	-8.28	125.43	130.40
80	6	1638	G	C2-N3-C4	-8.28	107.76	111.90
85	5	59	G	N1-C6-O6	8.28	124.87	119.90
85	5	1076	C	C5-C4-N4	8.28	126.00	120.20
85	5	2617	U	N1-C2-N3	8.28	119.87	114.90
85	5	2626	A	N1-C6-N6	-8.28	113.63	118.60
85	5	2984	C	C5-C6-N1	-8.28	116.86	121.00
85	5	3050	U	OP1-P-OP2	-8.28	107.18	119.60
37	7	17	A	N7-C8-N9	-8.28	109.66	113.80
1	2	275	C	C5-C6-N1	8.28	125.14	121.00
1	2	1633	U	C2-N3-C4	-8.28	122.03	127.00
36	1	151	A	C4-C5-N7	8.28	114.84	110.70
36	1	392	G	C5-N7-C8	-8.28	100.16	104.30
36	1	1210	U	C5-C4-O4	8.28	130.87	125.90
36	1	2760	C	C4-C5-C6	-8.28	113.26	117.40
37	7	111	U	C4-C5-C6	8.28	124.67	119.70
36	1	516	A	N1-C2-N3	8.28	133.44	129.30
36	1	1418	A	C4-C5-N7	8.28	114.84	110.70
36	1	3102	G	C4-C5-C6	8.28	123.77	118.80
37	3	111	U	N1-C2-N3	8.28	119.87	114.90
71	O5	17	LEU	CB-CG-CD2	-8.28	96.93	111.00
85	5	209	A	C8-N9-C4	8.28	109.11	105.80
85	5	2413	A	O5'-P-OP2	-8.28	98.25	105.70
85	5	1168	U	OP1-P-OP2	-8.28	107.18	119.60
85	5	1207	G	C5-C6-N1	8.28	115.64	111.50
85	5	2137	U	N3-C2-O2	-8.28	116.41	122.20
39	12	227	ARG	NE-CZ-NH2	-8.28	116.16	120.30
1	2	1034	G	N1-C6-O6	8.28	124.87	119.90
41	L4	202	ARG	NE-CZ-NH2	-8.28	116.16	120.30
1	2	58	U	N3-C2-O2	8.28	127.99	122.20
36	1	1031	C	N3-C2-O2	8.28	127.69	121.90
80	6	625	C	N3-C2-O2	8.28	127.69	121.90
80	6	1145	U	N3-C4-C5	-8.28	109.64	114.60
85	5	353	G	OP1-P-OP2	8.28	132.01	119.60
85	5	1672	U	N3-C2-O2	8.28	127.99	122.20
85	5	3321	C	C5-C6-N1	-8.28	116.86	121.00
85	5	3340	G	C2-N3-C4	8.28	116.04	111.90
1	2	639	U	N3-C2-O2	-8.27	116.41	122.20
36	1	941	G	N3-C4-C5	-8.27	124.46	128.60
36	1	983	A	C6-N1-C2	-8.27	113.64	118.60
36	1	1555	U	C4-C5-C6	8.27	124.66	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	295	A	C6-N1-C2	-8.27	113.64	118.60
80	6	1123	C	N1-C2-O2	-8.27	113.94	118.90
85	5	98	G	N1-C2-N2	-8.27	108.75	116.20
85	5	349	A	C6-N1-C2	-8.27	113.64	118.60
85	5	1601	U	C5-C6-N1	8.27	126.84	122.70
85	5	2282	U	N3-C2-O2	-8.27	116.41	122.20
1	2	420	A	N9-C4-C5	8.27	109.11	105.80
1	2	606	A	N3-C4-C5	8.27	132.59	126.80
36	1	954	U	N3-C4-C5	-8.27	109.64	114.60
37	3	5	G	C4-C5-N7	-8.27	107.49	110.80
80	6	404	G	C4-C5-N7	-8.27	107.49	110.80
85	5	782	U	OP1-P-OP2	-8.27	107.19	119.60
85	5	1416	C	N3-C4-N4	8.27	123.79	118.00
85	5	1670	C	O5'-P-OP1	-8.27	98.26	105.70
85	5	2345	A	C2-N3-C4	-8.27	106.46	110.60
85	5	2741	C	N3-C4-C5	-8.27	118.59	121.90
1	2	964	U	N1-C2-N3	8.27	119.86	114.90
1	2	1765	A	C2-N3-C4	-8.27	106.47	110.60
36	1	47	C	C6-N1-C2	8.27	123.61	120.30
36	1	88	A	C6-N1-C2	-8.27	113.64	118.60
36	1	318	A	N1-C6-N6	-8.27	113.64	118.60
85	5	788	C	O5'-P-OP1	-8.27	98.26	105.70
85	5	1735	G	C5-C6-N1	-8.27	107.36	111.50
36	1	547	G	C5-C6-O6	-8.27	123.64	128.60
36	1	582	G	O5'-P-OP1	8.27	120.62	110.70
36	1	1680	G	N7-C8-N9	-8.27	108.97	113.10
36	1	2399	A	C8-N9-C4	-8.27	102.49	105.80
36	1	2550	U	C4-C5-C6	8.27	124.66	119.70
80	6	377	G	N1-C2-N3	8.27	128.86	123.90
80	6	942	G	N3-C2-N2	-8.27	114.11	119.90
80	6	1672	G	C8-N9-C1'	8.27	137.75	127.00
85	5	878	G	C6-C5-N7	-8.27	125.44	130.40
85	5	1347	U	O5'-P-OP1	8.27	120.62	110.70
85	5	2685	C	C4-C5-C6	-8.27	113.27	117.40
38	8	149	A	N1-C6-N6	-8.27	113.64	118.60
36	1	333	G	N1-C6-O6	8.27	124.86	119.90
36	1	394	G	C5-C6-O6	8.27	133.56	128.60
36	1	817	A	C5-C6-N1	8.27	121.83	117.70
36	1	1219	C	N1-C2-O2	8.27	123.86	118.90
36	1	1483	G	N1-C6-O6	-8.27	114.94	119.90
36	1	2315	G	N1-C6-O6	-8.27	114.94	119.90
36	1	2621	G	N7-C8-N9	8.27	117.23	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	23	U	C5-C6-N1	-8.27	118.57	122.70
36	1	2315	G	C4-C5-N7	-8.27	107.49	110.80
36	1	2890	A	OP1-P-OP2	-8.27	107.20	119.60
36	1	3086	A	OP1-P-OP2	-8.27	107.20	119.60
36	1	3224	G	N1-C6-O6	8.27	124.86	119.90
38	4	41	A	OP2-P-O3'	8.27	123.39	105.20
80	6	518	A	OP1-P-OP2	8.27	132.00	119.60
80	6	818	C	N3-C2-O2	8.27	127.69	121.90
85	5	628	A	C5-C6-N6	8.27	130.31	123.70
85	5	391	A	N7-C8-N9	-8.27	109.67	113.80
85	5	638	C	C2-N1-C1'	8.27	127.89	118.80
85	5	787	G	N3-C2-N2	-8.27	114.11	119.90
85	5	801	A	N1-C6-N6	-8.27	113.64	118.60
85	5	1885	U	C5-C4-O4	8.27	130.86	125.90
85	5	2176	U	C2-N3-C4	-8.27	122.04	127.00
85	5	3249	C	N3-C4-N4	8.27	123.79	118.00
37	7	26	C	N3-C4-C5	-8.27	118.59	121.90
1	2	28	A	C8-N9-C4	8.26	109.11	105.80
36	1	175	C	C6-N1-C2	8.26	123.61	120.30
36	1	1443	G	C6-C5-N7	-8.26	125.44	130.40
85	5	954	U	N1-C2-O2	8.26	128.59	122.80
36	1	3232	G	N9-C4-C5	8.26	108.70	105.40
36	1	3386	G	OP1-P-OP2	8.26	131.99	119.60
78	Q2	8	ARG	NE-CZ-NH2	-8.26	116.17	120.30
80	6	1775	U	O5'-P-OP1	8.26	120.61	110.70
85	5	946	U	N1-C2-O2	-8.26	117.02	122.80
85	5	1070	U	C2-N3-C4	-8.26	122.04	127.00
85	5	1378	U	OP2-P-O3'	8.26	123.38	105.20
85	5	2995	A	C5-C6-N6	8.26	130.31	123.70
36	1	1736	G	C6-N1-C2	-8.26	120.14	125.10
36	1	2241	U	N3-C2-O2	8.26	127.98	122.20
1	2	305	C	N3-C4-N4	8.26	123.78	118.00
36	1	2425	G	N1-C2-N3	8.26	128.85	123.90
36	1	2933	A	C4-C5-N7	8.26	114.83	110.70
36	1	3053	G	N1-C2-N2	-8.26	108.77	116.20
38	4	64	U	OP2-P-O3'	8.26	123.37	105.20
80	6	1688	U	C5-C4-O4	8.26	130.86	125.90
85	5	1127	G	C4-C5-N7	-8.26	107.50	110.80
85	5	1707	A	C8-N9-C4	-8.26	102.50	105.80
85	5	2391	G	C4-C5-N7	-8.26	107.50	110.80
85	5	2705	A	C4-C5-N7	8.26	114.83	110.70
85	5	2728	G	N3-C2-N2	8.26	125.68	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	880	C	N3-C4-C5	-8.26	118.60	121.90
1	2	1068	G	C5-C6-O6	-8.26	123.65	128.60
1	2	1097	G	N9-C4-C5	-8.26	102.10	105.40
36	1	211	A	C6-N1-C2	-8.26	113.65	118.60
85	5	2689	A	OP1-P-OP2	-8.26	107.21	119.60
1	2	1578	U	C4-C5-C6	8.26	124.65	119.70
36	1	296	A	C8-N9-C4	-8.26	102.50	105.80
36	1	379	C	C5-C6-N1	-8.26	116.87	121.00
36	1	580	C	C5-C6-N1	8.26	125.13	121.00
36	1	1697	A	N1-C2-N3	8.26	133.43	129.30
80	6	576	G	C6-C5-N7	-8.26	125.45	130.40
85	5	2357	A	N1-C6-N6	-8.26	113.65	118.60
36	1	2738	A	C5-C6-N1	8.26	121.83	117.70
80	6	154	G	N3-C4-C5	-8.26	124.47	128.60
80	6	1000	C	N3-C2-O2	-8.26	116.12	121.90
85	5	100	A	P-O3'-C3'	-8.26	109.79	119.70
85	5	282	G	C5-N7-C8	-8.26	100.17	104.30
85	5	1215	U	C5-C6-N1	8.26	126.83	122.70
85	5	1721	U	C5-C6-N1	8.26	126.83	122.70
85	5	1884	A	N1-C6-N6	8.26	123.55	118.60
85	5	2801	A	N1-C6-N6	-8.26	113.65	118.60
1	2	63	G	C2-N3-C4	-8.25	107.77	111.90
1	2	508	U	N3-C4-O4	8.25	125.18	119.40
1	2	572	C	N3-C4-N4	8.25	123.78	118.00
1	2	1101	G	C4-C5-C6	8.25	123.75	118.80
1	2	1440	C	C6-N1-C2	-8.25	117.00	120.30
1	2	1627	C	N1-C2-O2	8.25	123.85	118.90
1	2	1760	G	C5-C6-O6	-8.25	123.65	128.60
36	1	2380	U	N3-C4-C5	8.25	119.55	114.60
80	6	1041	G	N7-C8-N9	8.25	117.23	113.10
85	5	1115	G	N1-C2-N2	-8.25	108.77	116.20
85	5	1463	U	C2-N3-C4	8.25	131.95	127.00
36	1	651	G	C5-C6-N1	8.25	115.63	111.50
36	1	2964	G	N1-C2-N2	-8.25	108.77	116.20
80	6	557	G	N7-C8-N9	-8.25	108.97	113.10
85	5	971	G	N9-C4-C5	-8.25	102.10	105.40
85	5	2950	G	C4-N9-C1'	8.25	137.23	126.50
85	5	3279	A	N1-C6-N6	-8.25	113.65	118.60
1	2	254	A	N1-C6-N6	8.25	123.55	118.60
36	1	297	G	C5-C6-O6	-8.25	123.65	128.60
36	1	726	G	C5-C6-N1	8.25	115.63	111.50
36	1	1199	C	C2-N3-C4	-8.25	115.78	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2203	U	O5'-P-OP1	-8.25	98.28	105.70
36	1	2713	U	C6-N1-C2	8.25	125.95	121.00
85	5	1835	A	C5-C6-N1	-8.25	113.57	117.70
85	5	2732	G	N3-C4-N9	-8.25	121.05	126.00
37	7	39	C	C6-N1-C2	-8.25	117.00	120.30
80	6	1032	G	N7-C8-N9	-8.25	108.98	113.10
85	5	68	C	OP1-P-OP2	-8.25	107.22	119.60
85	5	578	A	N1-C6-N6	8.25	123.55	118.60
85	5	812	G	C5-C6-O6	8.25	133.55	128.60
85	5	2105	G	C5-N7-C8	-8.25	100.17	104.30
85	5	2129	U	N3-C4-O4	-8.25	113.63	119.40
85	5	2724	U	O5'-P-OP1	8.25	120.60	110.70
1	2	22	A	C5-C6-N6	-8.25	117.10	123.70
1	2	413	U	C2-N3-C4	-8.25	122.05	127.00
36	1	917	A	C4-C5-C6	-8.25	112.88	117.00
36	1	2189	U	C5-C6-N1	8.25	126.82	122.70
85	5	1436	U	OP1-P-O3'	8.25	123.35	105.20
85	5	1829	G	C6-C5-N7	-8.25	125.45	130.40
85	5	3255	U	N3-C2-O2	8.25	127.97	122.20
1	2	430	G	C5-C6-O6	8.25	133.55	128.60
36	1	1423	C	C4-C5-C6	8.25	121.52	117.40
36	1	1796	G	C8-N9-C4	-8.25	103.10	106.40
38	4	79	A	C4-C5-N7	-8.25	106.58	110.70
85	5	503	C	N1-C2-O2	-8.25	113.95	118.90
85	5	576	C	N1-C2-O2	-8.25	113.95	118.90
85	5	3287	U	C5-C6-N1	8.25	126.82	122.70
1	2	1102	G	N1-C6-O6	-8.24	114.95	119.90
36	1	564	G	N3-C4-C5	-8.24	124.48	128.60
36	1	806	A	O4'-C1'-N9	-8.24	101.60	108.20
36	1	2280	A	C5-C6-N1	8.24	121.82	117.70
36	1	2698	G	C5-C6-N1	8.24	115.62	111.50
80	6	549	G	N1-C2-N2	8.24	123.62	116.20
36	1	12	A	C6-N1-C2	-8.24	113.66	118.60
36	1	2119	A	N9-C4-C5	-8.24	102.50	105.80
80	6	1082	C	N3-C4-C5	-8.24	118.60	121.90
85	5	174	C	C2-N3-C4	-8.24	115.78	119.90
85	5	236	G	N3-C2-N2	-8.24	114.13	119.90
85	5	415	G	C5-C6-N1	8.24	115.62	111.50
85	5	1664	G	C8-N9-C4	8.24	109.70	106.40
85	5	1447	G	N1-C2-N2	-8.24	108.78	116.20
85	5	3050	U	C2-N1-C1'	8.24	127.59	117.70
85	5	3308	C	N3-C4-N4	8.24	123.77	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	63	G	C5-C6-O6	8.24	133.54	128.60
38	8	100	U	N3-C4-O4	8.24	125.17	119.40
36	1	388	G	N1-C6-O6	8.24	124.84	119.90
36	1	686	G	OP1-P-O3'	-8.24	87.07	105.20
36	1	1097	G	N1-C2-N3	-8.24	118.96	123.90
36	1	2798	C	N3-C4-N4	8.24	123.77	118.00
36	1	2992	U	C5-C4-O4	8.24	130.84	125.90
85	5	1067	U	N3-C2-O2	8.24	127.97	122.20
85	5	2826	U	C5-C6-N1	-8.24	118.58	122.70
1	2	1063	U	N3-C4-O4	-8.24	113.63	119.40
1	2	1073	C	C2-N3-C4	8.24	124.02	119.90
36	1	685	G	OP2-P-O3'	8.24	123.33	105.20
36	1	751	A	C2-N3-C4	-8.24	106.48	110.60
36	1	762	U	O5'-P-OP1	-8.24	98.28	105.70
36	1	793	C	C5-C4-N4	-8.24	114.43	120.20
36	1	2978	U	N1-C2-O2	8.24	128.57	122.80
80	6	371	G	C8-N9-C4	-8.24	103.10	106.40
85	5	776	U	N3-C2-O2	-8.24	116.43	122.20
85	5	1151	U	N3-C4-C5	-8.24	109.66	114.60
1	2	98	U	N3-C2-O2	8.24	127.97	122.20
1	2	1756	C	N1-C2-O2	-8.24	113.96	118.90
36	1	77	A	C4-C5-C6	8.24	121.12	117.00
36	1	436	A	C6-C5-N7	-8.24	126.53	132.30
36	1	934	G	N9-C4-C5	8.24	108.69	105.40
36	1	2288	G	N3-C4-C5	-8.24	124.48	128.60
36	1	2964	G	O5'-P-OP2	-8.24	98.29	105.70
85	5	658	G	N1-C2-N3	8.24	128.84	123.90
85	5	2617	U	N3-C4-O4	8.24	125.17	119.40
80	6	1074	G	N1-C6-O6	8.24	124.84	119.90
85	5	763	G	C2-N3-C4	-8.24	107.78	111.90
85	5	3098	G	N1-C2-N2	8.24	123.61	116.20
85	5	3137	C	N1-C2-O2	-8.24	113.96	118.90
1	2	1127	U	N1-C2-N3	8.23	119.84	114.90
1	2	1547	U	N3-C2-O2	8.23	127.96	122.20
36	1	341	G	O5'-P-OP1	8.23	120.58	110.70
36	1	523	A	C5-N7-C8	8.23	108.02	103.90
36	1	574	U	N1-C2-N3	8.23	119.84	114.90
36	1	780	A	N9-C4-C5	8.23	109.09	105.80
36	1	1357	G	C4-C5-C6	8.23	123.74	118.80
36	1	1702	U	C6-N1-C2	-8.23	116.06	121.00
36	1	2704	A	C8-N9-C4	-8.23	102.51	105.80
36	1	2865	U	N3-C4-O4	8.23	125.16	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	791	A	C2-N3-C4	-8.23	106.48	110.60
80	6	964	U	C5-C6-N1	-8.23	118.58	122.70
85	5	2551	U	N1-C2-O2	8.23	128.56	122.80
85	5	2697	A	C8-N9-C4	-8.23	102.51	105.80
85	5	2920	U	N3-C4-O4	8.23	125.16	119.40
85	5	3272	C	O4'-C1'-N1	-8.23	101.61	108.20
1	2	590	C	N3-C2-O2	-8.23	116.14	121.90
36	1	364	G	N3-C4-C5	8.23	132.72	128.60
36	1	925	A	C4-C5-C6	8.23	121.11	117.00
36	1	1185	C	C5-C6-N1	-8.23	116.88	121.00
36	1	1327	C	N1-C2-O2	-8.23	113.96	118.90
36	1	1617	G	C8-N9-C4	8.23	109.69	106.40
36	1	2601	A	C4-C5-N7	-8.23	106.58	110.70
36	1	2932	U	N3-C4-O4	-8.23	113.64	119.40
37	3	58	C	O5'-P-OP2	-8.23	98.29	105.70
38	4	56	G	N1-C2-N2	-8.23	108.79	116.20
85	5	1011	A	C8-N9-C4	-8.23	102.51	105.80
85	5	1412	G	N1-C6-O6	8.23	124.84	119.90
85	5	1920	U	N1-C2-O2	-8.23	117.04	122.80
80	6	1109	G	N3-C4-C5	8.23	132.72	128.60
85	5	83	U	N3-C4-C5	-8.23	109.66	114.60
85	5	708	G	N1-C6-O6	8.23	124.84	119.90
85	5	2359	C	O5'-P-OP2	-8.23	98.29	105.70
1	2	563	U	N1-C2-N3	8.23	119.84	114.90
1	2	1419	A	O5'-P-OP2	-8.23	98.30	105.70
36	1	651	G	C5-C6-O6	8.23	133.54	128.60
80	6	280	U	N3-C4-C5	8.23	119.54	114.60
1	2	1516	C	N3-C4-C5	-8.23	118.61	121.90
36	1	2679	A	N1-C6-N6	8.23	123.54	118.60
36	1	2867	C	C6-N1-C2	-8.23	117.01	120.30
80	6	1013	A	N7-C8-N9	8.23	117.91	113.80
85	5	297	G	N1-C6-O6	-8.23	114.96	119.90
85	5	1101	G	C5-N7-C8	8.23	108.41	104.30
85	5	1407	A	O5'-P-OP1	8.23	120.58	110.70
85	5	1586	G	N1-C2-N2	-8.23	108.80	116.20
85	5	2130	G	C2-N3-C4	-8.23	107.79	111.90
85	5	2844	C	C5-C6-N1	8.23	125.11	121.00
85	5	3111	U	N3-C2-O2	8.23	127.96	122.20
85	5	3243	A	C2-N3-C4	-8.23	106.49	110.60
85	5	689	U	N3-C4-O4	-8.23	113.64	119.40
85	5	1454	A	C5-C6-N6	-8.23	117.12	123.70
85	5	2374	C	N1-C2-N3	8.23	124.96	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2657	A	N1-C6-N6	-8.23	113.67	118.60
1	2	1274	G	N1-C6-O6	8.22	124.83	119.90
1	2	195	G	C4-C5-N7	-8.22	107.51	110.80
36	1	65	A	O5'-P-OP2	-8.22	98.30	105.70
36	1	2707	C	N1-C2-O2	-8.22	113.97	118.90
80	6	41	A	C5-C6-N1	8.22	121.81	117.70
80	6	115	G	N3-C2-N2	-8.22	114.14	119.90
85	5	2242	A	C8-N9-C4	8.22	109.09	105.80
85	5	2641	U	N1-C2-N3	-8.22	109.97	114.90
85	5	2948	C	C4-C5-C6	-8.22	113.29	117.40
1	2	1188	C	N1-C2-O2	-8.22	113.97	118.90
36	1	1318	A	C4-C5-C6	8.22	121.11	117.00
36	1	2352	A	O5'-P-OP2	-8.22	98.30	105.70
36	1	3277	U	C5-C6-N1	8.22	126.81	122.70
80	6	1777	G	N1-C2-N3	8.22	128.83	123.90
85	5	118	U	C4-C5-C6	8.22	124.63	119.70
85	5	940	G	N1-C6-O6	-8.22	114.97	119.90
85	5	3325	G	C5-C6-N1	-8.22	107.39	111.50
85	5	55	G	O5'-P-OP1	8.22	120.56	110.70
85	5	1080	A	O5'-P-OP1	8.22	120.56	110.70
85	5	1102	A	C5-C6-N6	8.22	130.28	123.70
85	5	2751	G	N3-C4-N9	-8.22	121.07	126.00
85	5	2777	G	C6-C5-N7	-8.22	125.47	130.40
85	5	680	G	N3-C2-N2	8.22	125.65	119.90
80	6	176	C	N1-C2-O2	-8.22	113.97	118.90
80	6	941	A	N9-C4-C5	8.22	109.09	105.80
85	5	631	U	C4-C5-C6	8.22	124.63	119.70
85	5	1395	G	C5-C6-O6	-8.22	123.67	128.60
85	5	1787	A	O5'-P-OP1	-8.22	98.30	105.70
85	5	2363	A	C5-C6-N6	-8.22	117.13	123.70
85	5	2942	C	C5-C6-N1	8.22	125.11	121.00
85	5	3312	U	N1-C2-O2	-8.22	117.05	122.80
37	7	81	U	O5'-P-OP1	8.22	120.56	110.70
37	7	119	U	C5-C6-N1	-8.22	118.59	122.70
1	2	1537	U	N3-C2-O2	-8.21	116.45	122.20
36	1	202	G	O5'-P-OP1	8.22	120.56	110.70
36	1	578	A	C5-C6-N6	-8.21	117.13	123.70
36	1	1000	C	N3-C2-O2	8.22	127.65	121.90
36	1	1299	U	O5'-P-OP2	-8.21	98.31	105.70
36	1	2797	C	N1-C2-O2	-8.21	113.97	118.90
80	6	624	G	C2-N3-C4	-8.22	107.79	111.90
85	5	152	U	C5-C4-O4	8.22	130.83	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	c1	136	ARG	NE-CZ-NH1	-8.21	116.19	120.30
85	5	1509	A	N1-C6-N6	-8.21	113.67	118.60
85	5	2240	G	N3-C2-N2	8.21	125.65	119.90
85	5	2415	C	N1-C2-N3	8.21	124.95	119.20
85	5	2890	A	C8-N9-C4	-8.21	102.51	105.80
85	5	3273	A	N7-C8-N9	8.21	117.91	113.80
85	5	3346	U	C5-C6-N1	-8.21	118.59	122.70
36	1	1154	A	C8-N9-C4	-8.21	102.52	105.80
36	1	2810	C	C6-N1-C2	8.21	123.58	120.30
80	6	410	A	C8-N9-C4	-8.21	102.52	105.80
1	2	596	C	O5'-P-OP2	8.21	120.55	110.70
1	2	1755	C	C5-C6-N1	-8.21	116.89	121.00
85	5	1912	U	OP1-P-OP2	-8.21	107.28	119.60
36	1	249	U	C6-N1-C2	-8.21	116.07	121.00
36	1	2403	G	N1-C6-O6	8.21	124.83	119.90
36	1	2405	C	C5-C4-N4	-8.21	114.45	120.20
37	3	54	U	O5'-P-OP2	8.21	120.55	110.70
38	4	63	G	C5-N7-C8	-8.21	100.19	104.30
80	6	389	G	C8-N9-C4	-8.21	103.12	106.40
85	5	136	G	N7-C8-N9	8.21	117.20	113.10
85	5	1147	G	N1-C6-O6	-8.21	114.97	119.90
85	5	205	C	C5-C4-N4	-8.21	114.45	120.20
85	5	205	C	C2-N3-C4	-8.21	115.80	119.90
85	5	427	C	N1-C2-O2	-8.21	113.97	118.90
85	5	818	C	N3-C2-O2	8.21	127.65	121.90
85	5	1340	G	N1-C6-O6	-8.21	114.97	119.90
85	5	2271	A	N7-C8-N9	-8.21	109.69	113.80
85	5	2915	U	C5-C6-N1	-8.21	118.59	122.70
40	l3	275	ARG	NE-CZ-NH1	-8.21	116.19	120.30
85	5	3127	A	C2-N3-C4	8.21	114.70	110.60
1	2	6	G	OP1-P-OP2	-8.21	107.29	119.60
36	1	1200	A	C4-C5-C6	8.21	121.10	117.00
36	1	2150	G	N3-C2-N2	-8.21	114.15	119.90
36	1	2267	C	N1-C2-O2	-8.21	113.97	118.90
85	5	76	G	C2-N3-C4	-8.21	107.80	111.90
85	5	2806	U	N3-C2-O2	8.21	127.95	122.20
85	5	3161	C	N3-C4-N4	8.21	123.75	118.00
85	5	3277	U	C5-C6-N1	8.21	126.80	122.70
1	2	10	G	C5-C6-O6	8.21	133.52	128.60
36	1	1861	G	C2-N3-C4	8.21	116.00	111.90
36	1	3123	A	O5'-P-OP2	8.21	120.55	110.70
80	6	789	A	N9-C4-C5	8.21	109.08	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1757	G	C8-N9-C1'	-8.21	116.33	127.00
85	5	373	A	C8-N9-C4	8.21	109.08	105.80
85	5	958	C	C2-N3-C4	-8.21	115.80	119.90
85	5	1484	U	C5-C6-N1	-8.21	118.60	122.70
85	5	2962	U	O5'-P-OP1	8.21	120.55	110.70
85	5	3099	C	N1-C2-N3	-8.21	113.45	119.20
38	8	14	C	N1-C2-O2	-8.21	113.98	118.90
1	2	489	C	C6-N1-C2	-8.21	117.02	120.30
1	2	1130	A	C6-C5-N7	-8.21	126.56	132.30
36	1	2781	U	O5'-P-OP2	-8.21	98.31	105.70
36	1	82	C	C6-N1-C2	8.20	123.58	120.30
36	1	689	U	N3-C2-O2	-8.20	116.46	122.20
36	1	2622	C	C5-C4-N4	8.21	125.94	120.20
80	6	1151	A	N7-C8-N9	8.21	117.90	113.80
85	5	509	U	N3-C2-O2	-8.21	116.46	122.20
85	5	1490	A	N7-C8-N9	8.21	117.90	113.80
38	8	32	C	C4-C5-C6	-8.21	113.30	117.40
85	5	1590	G	C4-C5-N7	8.20	114.08	110.80
85	5	2415	C	N3-C4-C5	8.20	125.18	121.90
85	5	2780	A	N1-C2-N3	8.20	133.40	129.30
85	5	3054	U	N3-C4-C5	-8.20	109.68	114.60
85	5	3158	G	C8-N9-C4	-8.20	103.12	106.40
1	2	129	U	N3-C4-C5	-8.20	109.68	114.60
36	1	226	C	C5-C6-N1	8.20	125.10	121.00
1	2	325	G	C8-N9-C4	-8.20	103.12	106.40
1	2	416	A	N1-C2-N3	-8.20	125.20	129.30
36	1	2375	G	N1-C2-N3	8.20	128.82	123.90
36	1	297	G	N1-C6-O6	8.20	124.82	119.90
36	1	552	G	N7-C8-N9	8.20	117.20	113.10
36	1	828	A	C5-N7-C8	-8.20	99.80	103.90
36	1	1426	C	C2-N1-C1'	8.20	127.82	118.80
36	1	1756	C	O5'-P-OP1	-8.20	98.32	105.70
36	1	2443	A	C4-C5-N7	8.20	114.80	110.70
36	1	3249	C	N1-C2-O2	8.20	123.82	118.90
80	6	165	G	C2-N3-C4	-8.20	107.80	111.90
80	6	1355	C	C6-N1-C2	-8.20	117.02	120.30
80	6	1403	C	N3-C4-C5	-8.20	118.62	121.90
85	5	258	G	C6-C5-N7	-8.20	125.48	130.40
85	5	591	G	C5-C6-O6	-8.20	123.68	128.60
85	5	1608	C	N1-C2-N3	-8.20	113.46	119.20
85	5	646	A	OP1-P-OP2	-8.20	107.30	119.60
85	5	894	G	N3-C4-C5	8.20	132.70	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1739	U	C4-C5-C6	8.20	124.62	119.70
36	1	1132	C	N1-C2-O2	-8.20	113.98	118.90
36	1	1618	G	N9-C4-C5	8.20	108.68	105.40
1	2	1728	G	N3-C2-N2	8.20	125.64	119.90
36	1	338	A	C4-C5-C6	8.20	121.10	117.00
36	1	895	A	O5'-P-OP1	-8.20	98.32	105.70
36	1	1151	U	N3-C4-O4	8.20	125.14	119.40
36	1	1359	C	C2-N1-C1'	-8.20	109.78	118.80
38	4	76	C	C6-N1-C2	8.20	123.58	120.30
80	6	1014	G	N9-C4-C5	8.20	108.68	105.40
36	1	2525	G	N1-C2-N3	8.20	128.82	123.90
36	1	2997	G	N7-C8-N9	8.20	117.20	113.10
37	3	90	U	O5'-P-OP1	8.20	120.54	110.70
38	4	103	G	N3-C2-N2	8.20	125.64	119.90
80	6	302	U	N3-C4-C5	-8.20	109.68	114.60
80	6	1280	C	C2-N3-C4	8.20	124.00	119.90
85	5	693	A	O5'-P-OP2	8.20	120.54	110.70
85	5	908	G	C6-C5-N7	-8.20	125.48	130.40
85	5	1905	G	N1-C6-O6	8.20	124.82	119.90
85	5	2187	G	C5-C6-N1	-8.20	107.40	111.50
85	5	2875	U	N3-C4-C5	-8.20	109.68	114.60
85	5	3107	U	C2-N3-C4	-8.20	122.08	127.00
37	7	57	G	C5-C6-O6	-8.20	123.68	128.60
85	5	907	G	N9-C4-C5	-8.20	102.12	105.40
85	5	3016	A	C6-C5-N7	-8.20	126.56	132.30
1	2	347	G	C8-N9-C4	-8.19	103.12	106.40
1	2	1094	G	N7-C8-N9	-8.20	109.00	113.10
80	6	174	U	C5-C4-O4	-8.20	120.98	125.90
80	6	1585	U	N3-C4-C5	8.20	119.52	114.60
38	8	28	C	O5'-P-OP2	-8.20	98.32	105.70
1	2	1283	A	N1-C2-N3	8.19	133.40	129.30
36	1	57	A	C6-C5-N7	-8.19	126.56	132.30
36	1	57	A	OP1-P-OP2	-8.20	107.31	119.60
36	1	676	G	N3-C2-N2	8.20	125.64	119.90
36	1	1380	G	N3-C4-C5	8.20	132.70	128.60
36	1	2099	A	N1-C2-N3	8.19	133.40	129.30
37	7	81	U	C4-C5-C6	8.20	124.62	119.70
36	1	81	C	OP1-P-OP2	8.19	131.89	119.60
36	1	984	G	C6-C5-N7	-8.19	125.48	130.40
36	1	2757	U	N3-C4-C5	-8.19	109.68	114.60
36	1	2881	C	C4-C5-C6	8.19	121.50	117.40
36	1	1302	A	C8-N9-C4	8.19	109.08	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1363	A	O5'-P-OP2	-8.19	98.33	105.70
80	6	709	C	N3-C4-N4	8.19	123.73	118.00
80	6	726	C	N3-C4-C5	-8.19	118.62	121.90
80	6	1034	C	C4-C5-C6	-8.19	113.31	117.40
85	5	826	G	OP1-P-OP2	-8.19	107.31	119.60
85	5	1101	G	N7-C8-N9	-8.19	109.00	113.10
85	5	1704	A	C2-N3-C4	-8.19	106.50	110.60
85	5	2716	U	C4-C5-C6	8.19	124.61	119.70
1	2	1541	U	N3-C4-O4	-8.19	113.67	119.40
1	2	1548	C	C6-N1-C2	-8.19	117.02	120.30
80	6	534	A	C6-N1-C2	-8.19	113.69	118.60
85	5	2411	U	C4-C5-C6	8.19	124.61	119.70
85	5	3292	A	C5-C6-N6	-8.19	117.15	123.70
36	1	2440	G	C5-C6-O6	8.19	133.51	128.60
36	1	3241	G	N3-C2-N2	-8.19	114.17	119.90
85	5	711	A	N1-C2-N3	8.19	133.39	129.30
85	5	774	G	C6-N1-C2	8.19	130.01	125.10
85	5	1005	G	C6-C5-N7	-8.19	125.49	130.40
85	5	1703	U	O5'-P-OP1	-8.19	98.33	105.70
38	8	109	A	C5-C6-N1	8.19	121.80	117.70
1	2	172	C	C6-N1-C2	8.19	123.58	120.30
36	1	114	A	C5-N7-C8	-8.19	99.81	103.90
36	1	1434	G	C6-C5-N7	-8.19	125.49	130.40
85	5	945	C	N3-C2-O2	-8.19	116.17	121.90
36	1	2381	G	N9-C4-C5	8.19	108.67	105.40
85	5	584	G	C5-N7-C8	8.19	108.39	104.30
85	5	1689	U	OP1-P-OP2	-8.19	107.32	119.60
85	5	2637	A	N1-C6-N6	-8.19	113.69	118.60
1	2	304	U	N1-C2-O2	-8.18	117.07	122.80
36	1	406	G	N7-C8-N9	8.18	117.19	113.10
36	1	552	G	C6-C5-N7	-8.18	125.49	130.40
36	1	917	A	N1-C6-N6	-8.18	113.69	118.60
36	1	1233	G	N1-C6-O6	-8.18	114.99	119.90
36	1	2876	C	C6-N1-C2	-8.18	117.03	120.30
85	5	639	G	N1-C2-N3	8.18	128.81	123.90
36	1	2880	U	C5-C6-N1	-8.18	118.61	122.70
37	3	99	G	C2-N3-C4	-8.18	107.81	111.90
85	5	2603	G	C6-N1-C2	8.18	130.01	125.10
85	5	2699	G	N9-C4-C5	-8.18	102.13	105.40
36	1	659	G	C5-N7-C8	-8.18	100.21	104.30
80	6	1681	A	O5'-P-OP1	-8.18	98.34	105.70
1	2	1728	G	N3-C4-N9	8.18	130.91	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1134	G	C4-C5-N7	-8.18	107.53	110.80
36	1	1850	A	C5-N7-C8	-8.18	99.81	103.90
36	1	2244	A	C5-N7-C8	8.18	107.99	103.90
36	1	2731	U	OP2-P-O3'	8.18	123.20	105.20
85	5	2374	C	N3-C2-O2	-8.18	116.17	121.90
85	5	3327	G	N7-C8-N9	8.18	117.19	113.10
36	1	1009	A	N1-C2-N3	8.18	133.39	129.30
36	1	1470	U	C2-N3-C4	-8.18	122.09	127.00
36	1	3201	C	C6-N1-C2	-8.18	117.03	120.30
85	5	283	G	N9-C4-C5	-8.18	102.13	105.40
85	5	798	G	N1-C2-N3	8.18	128.81	123.90
85	5	2175	U	N3-C2-O2	-8.18	116.47	122.20
85	5	2655	U	N3-C2-O2	-8.18	116.47	122.20
85	5	3008	A	N3-C4-N9	-8.18	120.86	127.40
85	5	946	U	N3-C4-O4	8.18	125.12	119.40
85	5	2209	U	C5-C4-O4	8.18	130.81	125.90
85	5	2735	U	C2-N3-C4	8.18	131.91	127.00
85	5	2814	G	C5-C6-N1	-8.18	107.41	111.50
85	5	2974	U	C5-C6-N1	-8.18	118.61	122.70
85	5	3065	G	N3-C2-N2	-8.18	114.17	119.90
37	7	85	G	C2-N3-C4	-8.18	107.81	111.90
38	8	95	G	C6-N1-C2	-8.18	120.19	125.10
1	2	1316	C	C5-C6-N1	8.18	125.09	121.00
36	1	109	A	C8-N9-C4	-8.18	102.53	105.80
36	1	517	G	OP1-P-OP2	-8.18	107.33	119.60
36	1	1683	A	C5-N7-C8	-8.18	99.81	103.90
36	1	3239	G	N3-C4-N9	-8.18	121.09	126.00
80	6	1537	C	N3-C4-N4	8.18	123.72	118.00
38	4	125	U	N1-C2-N3	-8.18	110.00	114.90
80	6	455	C	N3-C4-N4	8.18	123.72	118.00
80	6	1781	A	C6-C5-N7	-8.18	126.58	132.30
85	5	619	A	N1-C6-N6	8.18	123.50	118.60
85	5	634	C	N3-C2-O2	-8.18	116.18	121.90
85	5	1205	A	OP2-P-O3'	8.18	123.19	105.20
85	5	1206	G	N3-C4-C5	-8.18	124.51	128.60
85	5	1879	A	N1-C2-N3	8.18	133.39	129.30
85	5	2435	G	C4-C5-N7	8.18	114.07	110.80
37	7	18	C	C5-C6-N1	-8.18	116.91	121.00
1	2	1468	C	C5-C6-N1	-8.17	116.91	121.00
36	1	3281	U	O5'-P-OP2	-8.17	98.34	105.70
85	5	886	C	N3-C4-N4	8.17	123.72	118.00
36	1	38	U	C4-C5-C6	-8.17	114.80	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1592	G	N1-C6-O6	8.17	124.80	119.90
36	1	1839	A	C8-N9-C4	-8.17	102.53	105.80
80	6	778	G	O5'-P-OP2	-8.17	98.34	105.70
85	5	26	A	N7-C8-N9	-8.17	109.71	113.80
85	5	996	A	C6-N1-C2	-8.17	113.70	118.60
85	5	1304	A	OP1-P-OP2	8.17	131.86	119.60
85	5	1443	G	N7-C8-N9	8.17	117.19	113.10
85	5	1530	U	C4-C5-C6	-8.17	114.80	119.70
85	5	1612	A	C4-C5-C6	8.17	121.09	117.00
1	2	47	A	N9-C4-C5	8.17	109.07	105.80
1	2	364	G	N3-C4-C5	-8.17	124.51	128.60
1	2	942	U	N1-C2-O2	8.17	128.52	122.80
1	2	1538	A	C8-N9-C4	-8.17	102.53	105.80
36	1	1104	G	C5-N7-C8	-8.17	100.21	104.30
36	1	512	U	N1-C2-N3	8.17	119.80	114.90
36	1	1199	C	N1-C2-N3	8.17	124.92	119.20
80	6	93	A	N7-C8-N9	-8.17	109.72	113.80
80	6	650	U	C5-C6-N1	8.17	126.78	122.70
85	5	1156	C	N3-C4-N4	8.17	123.72	118.00
85	5	1947	G	C8-N9-C4	8.17	109.67	106.40
85	5	2163	C	N3-C2-O2	-8.17	116.18	121.90
85	5	2507	C	N1-C2-N3	-8.17	113.48	119.20
85	5	2533	G	C5-C6-O6	-8.17	123.70	128.60
85	5	2848	G	N1-C2-N3	8.17	128.80	123.90
85	5	2980	U	C6-N1-C2	-8.17	116.10	121.00
85	5	3008	A	C5-C6-N1	-8.17	113.61	117.70
85	5	3238	G	C6-N1-C2	8.17	130.00	125.10
36	1	3008	A	C2-N3-C4	-8.17	106.52	110.60
80	6	551	G	N1-C6-O6	8.17	124.80	119.90
1	2	1653	G	N1-C2-N3	8.17	128.80	123.90
36	1	730	C	C5-C4-N4	-8.17	114.48	120.20
36	1	1331	U	C4-C5-C6	8.17	124.60	119.70
36	1	1406	A	O5'-P-OP2	8.17	120.50	110.70
80	6	312	A	C8-N9-C4	-8.17	102.53	105.80
80	6	334	G	N1-C6-O6	-8.17	115.00	119.90
80	6	1664	C	N3-C2-O2	8.17	127.62	121.90
85	5	948	C	O5'-P-OP2	-8.17	98.35	105.70
85	5	2170	U	N1-C2-O2	-8.17	117.08	122.80
85	5	3073	A	C5-C6-N1	8.17	121.78	117.70
37	7	1	G	C6-C5-N7	-8.17	125.50	130.40
37	7	79	A	C6-C5-N7	-8.17	126.58	132.30
1	2	10	G	C6-C5-N7	8.16	135.30	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	393	U	N3-C4-C5	-8.16	109.70	114.60
36	1	2211	U	N3-C4-C5	-8.16	109.70	114.60
85	5	2180	G	C8-N9-C4	8.16	109.67	106.40
85	5	2296	A	C8-N9-C4	8.16	109.06	105.80
1	2	771	A	C2-N3-C4	8.16	114.68	110.60
36	1	355	A	N1-C2-N3	8.16	133.38	129.30
36	1	2105	G	C5-C6-O6	-8.16	123.70	128.60
36	1	3109	G	N3-C2-N2	8.16	125.61	119.90
38	4	105	A	OP1-P-OP2	8.16	131.85	119.60
80	6	524	U	O5'-P-OP2	-8.16	98.35	105.70
85	5	23	A	N1-C6-N6	8.16	123.50	118.60
85	5	250	U	C5-C6-N1	8.16	126.78	122.70
36	1	511	G	C4-C5-N7	-8.16	107.53	110.80
36	1	1825	G	C5-C6-O6	-8.16	123.70	128.60
36	1	2223	A	N1-C6-N6	8.16	123.50	118.60
36	1	2552	C	C5-C4-N4	8.16	125.91	120.20
36	1	2822	U	O5'-P-OP1	-8.16	98.35	105.70
80	6	92	A	C5-C6-N1	-8.16	113.62	117.70
36	1	3052	G	N1-C6-O6	8.16	124.80	119.90
36	1	3056	U	N3-C4-C5	-8.16	109.70	114.60
80	6	1641	C	C5-C6-N1	8.16	125.08	121.00
85	5	715	A	C8-N9-C4	-8.16	102.53	105.80
85	5	2810	C	C5-C6-N1	8.16	125.08	121.00
85	5	808	A	N7-C8-N9	8.16	117.88	113.80
85	5	1047	A	N7-C8-N9	8.16	117.88	113.80
85	5	2851	A	C2-N3-C4	-8.16	106.52	110.60
1	2	1128	U	C6-N1-C2	-8.16	116.10	121.00
36	1	800	G	C4-C5-N7	8.16	114.06	110.80
36	1	1142	G	C6-N1-C2	-8.16	120.20	125.10
36	1	1562	C	C6-N1-C2	8.16	123.56	120.30
85	5	589	A	C6-C5-N7	-8.16	126.59	132.30
85	5	2125	A	N7-C8-N9	8.16	117.88	113.80
36	1	1670	C	C5-C6-N1	-8.16	116.92	121.00
36	1	3029	A	C8-N9-C4	-8.16	102.54	105.80
37	3	64	A	N1-C6-N6	-8.16	113.70	118.60
85	5	59	G	N7-C8-N9	8.16	117.18	113.10
80	6	279	G	C6-N1-C2	8.16	130.00	125.10
80	6	1065	A	C4-C5-N7	8.16	114.78	110.70
85	5	779	G	C4-C5-N7	8.16	114.06	110.80
85	5	1406	A	C5-N7-C8	-8.16	99.82	103.90
85	5	1488	G	OP1-P-OP2	-8.16	107.36	119.60
85	5	1551	C	N1-C2-N3	8.16	124.91	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3018	C	C5-C4-N4	-8.16	114.49	120.20
85	5	3130	A	N9-C4-C5	8.16	109.06	105.80
36	1	989	A	C6-N1-C2	8.16	123.49	118.60
36	1	1323	G	C8-N9-C4	8.16	109.66	106.40
36	1	1833	G	N7-C8-N9	-8.16	109.02	113.10
36	1	2853	A	OP1-P-OP2	8.16	131.84	119.60
36	1	2862	U	C2-N3-C4	-8.16	122.11	127.00
36	1	2877	G	N1-C6-O6	-8.16	115.01	119.90
80	6	801	G	C5-C6-N1	8.16	115.58	111.50
80	6	1498	G	C5-C6-O6	-8.16	123.71	128.60
80	6	1785	U	OP1-P-OP2	8.16	131.84	119.60
85	5	956	U	C6-N1-C2	8.16	125.89	121.00
85	5	1179	A	N9-C4-C5	8.16	109.06	105.80
85	5	1226	G	N1-C2-N3	8.16	128.79	123.90
85	5	1611	G	N1-C2-N2	-8.16	108.86	116.20
85	5	2703	A	C6-N1-C2	-8.16	113.71	118.60
1	2	1647	C	C5-C6-N1	8.15	125.08	121.00
36	1	294	U	C6-N1-C2	-8.15	116.11	121.00
36	1	378	A	C2-N3-C4	-8.15	106.52	110.60
36	1	1543	G	O5'-P-OP2	-8.15	98.36	105.70
36	1	1583	A	O5'-P-OP1	8.15	120.49	110.70
80	6	576	G	C8-N9-C4	-8.15	103.14	106.40
85	5	419	G	C8-N9-C4	8.15	109.66	106.40
36	1	609	G	N1-C6-O6	8.15	124.79	119.90
36	1	1372	C	O5'-P-OP1	-8.15	98.36	105.70
36	1	1677	G	N1-C2-N3	8.15	128.79	123.90
36	1	1832	C	C2-N3-C4	8.15	123.98	119.90
36	1	2683	U	N3-C4-C5	-8.15	109.71	114.60
36	1	3201	C	N1-C2-N3	8.15	124.91	119.20
36	1	3358	U	N3-C4-C5	8.15	119.49	114.60
80	6	1104	U	N1-C2-O2	-8.15	117.09	122.80
80	6	1207	C	N3-C4-C5	-8.15	118.64	121.90
85	5	79	U	N3-C4-O4	-8.15	113.69	119.40
85	5	257	U	N3-C2-O2	-8.15	116.49	122.20
85	5	3012	A	O5'-P-OP2	8.15	120.49	110.70
85	5	378	A	C8-N9-C4	8.15	109.06	105.80
85	5	986	U	N3-C4-O4	-8.15	113.69	119.40
85	5	1108	U	N1-C2-O2	-8.15	117.09	122.80
85	5	1330	A	N3-C4-C5	-8.15	121.09	126.80
85	5	1780	G	C6-N1-C2	-8.15	120.21	125.10
85	5	3381	U	N1-C2-O2	-8.15	117.09	122.80
1	2	172	C	O5'-P-OP1	8.15	120.48	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	955	G	C5-N7-C8	-8.15	100.22	104.30
1	2	1327	A	N9-C4-C5	-8.15	102.54	105.80
36	1	12	A	N1-C2-N3	8.15	133.38	129.30
36	1	1115	G	C5-N7-C8	-8.15	100.22	104.30
36	1	2886	U	N3-C2-O2	8.15	127.91	122.20
85	5	666	A	OP2-P-O3'	8.15	123.13	105.20
85	5	1885	U	C4-C5-C6	8.15	124.59	119.70
1	2	1768	U	N1-C2-N3	8.15	119.79	114.90
36	1	3072	C	C5-C4-N4	8.15	125.91	120.20
80	6	824	G	C4-C5-N7	8.15	114.06	110.80
85	5	822	G	N1-C2-N3	8.15	128.79	123.90
85	5	2421	U	C4-C5-C6	8.15	124.59	119.70
1	2	316	A	C5-C6-N1	8.15	121.77	117.70
36	1	52	A	N1-C6-N6	-8.15	113.71	118.60
36	1	336	A	C5-C6-N1	8.15	121.78	117.70
36	1	1490	A	N1-C2-N3	8.15	133.38	129.30
1	2	325	G	C2-N3-C4	-8.15	107.83	111.90
1	2	1467	G	N1-C6-O6	-8.15	115.01	119.90
36	1	2956	A	C5-C6-N1	8.15	121.77	117.70
38	4	117	C	O5'-P-OP1	8.15	120.48	110.70
85	5	747	A	C6-N1-C2	-8.15	113.71	118.60
85	5	2742	C	N3-C4-N4	-8.15	112.30	118.00
36	1	801	A	C6-C5-N7	-8.15	126.60	132.30
36	1	1919	G	C5-N7-C8	-8.15	100.23	104.30
37	3	74	C	C6-N1-C2	8.15	123.56	120.30
85	5	1095	U	C4-C5-C6	8.15	124.59	119.70
85	5	1701	C	OP1-P-OP2	-8.15	107.38	119.60
85	5	1830	G	O5'-P-OP1	8.15	120.48	110.70
80	6	1034	C	N3-C4-C5	8.15	125.16	121.90
80	6	1109	G	C8-N9-C1'	8.15	137.59	127.00
80	6	1725	U	N3-C4-O4	8.15	125.10	119.40
80	6	1735	U	C5-C4-O4	8.15	130.79	125.90
85	5	1246	G	C5-C6-O6	-8.15	123.71	128.60
85	5	1499	C	C5-C6-N1	8.15	125.07	121.00
85	5	2724	U	C2-N1-C1'	8.15	127.48	117.70
85	5	2784	G	C2-N3-C4	-8.15	107.83	111.90
85	5	2958	A	N9-C4-C5	8.15	109.06	105.80
37	7	20	A	O5'-P-OP2	8.15	120.48	110.70
36	1	899	U	N3-C2-O2	-8.14	116.50	122.20
36	1	1400	G	O5'-P-OP2	-8.14	98.37	105.70
36	1	1851	G	C2-N3-C4	-8.14	107.83	111.90
36	1	2241	U	N3-C4-O4	8.14	125.10	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2404	A	N1-C6-N6	-8.14	113.71	118.60
38	4	36	G	C2-N3-C4	-8.14	107.83	111.90
80	6	558	U	C5-C6-N1	8.14	126.77	122.70
80	6	789	A	N7-C8-N9	8.14	117.87	113.80
80	6	919	A	C8-N9-C4	-8.14	102.54	105.80
80	6	1340	U	N1-C2-O2	8.14	128.50	122.80
80	6	1468	U	N3-C4-O4	8.14	125.10	119.40
85	5	441	U	C2-N3-C4	-8.14	122.11	127.00
85	5	657	A	N9-C4-C5	-8.14	102.54	105.80
85	5	724	U	C6-N1-C2	-8.14	116.11	121.00
85	5	1153	A	C4-C5-N7	-8.14	106.63	110.70
85	5	1913	A	C5-N7-C8	-8.14	99.83	103.90
85	5	1945	A	C8-N9-C4	-8.14	102.54	105.80
85	5	2256	A	OP1-P-OP2	8.14	131.82	119.60
37	7	4	U	N1-C2-N3	8.14	119.79	114.90
85	5	2603	G	N1-C6-O6	8.14	124.79	119.90
85	5	2948	C	N3-C4-C5	8.14	125.16	121.90
47	m0	24	ARG	NE-CZ-NH2	-8.14	116.23	120.30
1	2	887	G	C5-N7-C8	8.14	108.37	104.30
36	1	802	C	C4-C5-C6	8.14	121.47	117.40
1	2	891	U	C5-C4-O4	8.14	130.78	125.90
36	1	809	G	C5-C6-N1	-8.14	107.43	111.50
36	1	1487	G	C8-N9-C4	-8.14	103.14	106.40
36	1	1793	C	O5'-P-OP1	-8.14	98.37	105.70
36	1	2124	G	C5-C6-O6	-8.14	123.72	128.60
36	1	2174	G	N7-C8-N9	8.14	117.17	113.10
36	1	2365	C	C5-C4-N4	-8.14	114.50	120.20
38	4	53	A	C6-N1-C2	-8.14	113.72	118.60
80	6	1007	C	C6-N1-C2	-8.14	117.04	120.30
85	5	1510	G	N3-C2-N2	-8.14	114.20	119.90
80	6	1622	G	C5-C6-N1	-8.14	107.43	111.50
85	5	75	G	C5-C6-N1	-8.14	107.43	111.50
85	5	412	G	C5-C6-N1	-8.14	107.43	111.50
85	5	2733	A	C4-C5-N7	-8.14	106.63	110.70
85	5	2748	A	C8-N9-C4	8.14	109.06	105.80
1	2	976	A	N1-C2-N3	8.14	133.37	129.30
36	1	238	A	O5'-P-OP2	-8.14	98.37	105.70
36	1	649	A	C4-C5-N7	8.14	114.77	110.70
36	1	1794	G	C8-N9-C4	-8.14	103.14	106.40
1	2	1486	A	C5-N7-C8	-8.14	99.83	103.90
36	1	636	C	N3-C4-C5	8.14	125.16	121.90
36	1	1592	G	C4-C5-C6	8.14	123.68	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1673	G	C6-C5-N7	-8.14	125.52	130.40
36	1	3148	U	N3-C4-O4	8.14	125.10	119.40
37	3	49	G	C2-N3-C4	8.14	115.97	111.90
80	6	795	U	N3-C2-O2	-8.14	116.50	122.20
85	5	1101	G	C4-C5-N7	-8.14	107.55	110.80
85	5	1264	G	C5-N7-C8	8.14	108.37	104.30
36	1	809	G	OP1-P-O3'	8.14	123.10	105.20
36	1	1380	G	N7-C8-N9	-8.14	109.03	113.10
85	5	2590	A	C5-N7-C8	-8.14	99.83	103.90
85	5	2904	U	N1-C2-O2	8.14	128.50	122.80
1	2	508	U	N3-C4-C5	-8.13	109.72	114.60
36	1	2953	U	OP1-P-OP2	-8.13	107.40	119.60
36	1	3200	G	N1-C2-N3	8.13	128.78	123.90
85	5	3179	U	N3-C4-O4	8.14	125.09	119.40
37	7	115	G	C5-N7-C8	-8.14	100.23	104.30
23	d1	71	ARG	NE-CZ-NH2	-8.13	116.23	120.30
85	5	588	G	C6-C5-N7	8.13	135.28	130.40
85	5	1903	U	C2-N3-C4	8.13	131.88	127.00
85	5	3046	A	C6-N1-C2	-8.13	113.72	118.60
1	2	1628	G	C6-N1-C2	-8.13	120.22	125.10
1	2	1729	A	C5-C6-N1	8.13	121.77	117.70
36	1	876	A	O5'-P-OP2	-8.13	98.38	105.70
85	5	1239	C	N1-C2-O2	8.13	123.78	118.90
1	2	328	A	C2-N3-C4	-8.13	106.53	110.60
1	2	1010	A	C2-N3-C4	-8.13	106.53	110.60
1	2	1262	C	C2-N3-C4	8.13	123.97	119.90
36	1	989	A	N1-C2-N3	-8.13	125.23	129.30
36	1	1002	A	N9-C4-C5	-8.13	102.55	105.80
36	1	1356	U	N3-C4-O4	-8.13	113.71	119.40
36	1	2283	G	C8-N9-C4	-8.13	103.15	106.40
36	1	2890	A	C4-C5-C6	8.13	121.07	117.00
85	5	1194	G	N3-C4-C5	-8.13	124.53	128.60
85	5	1256	G	N7-C8-N9	-8.13	109.03	113.10
36	1	1768	U	O5'-P-OP2	-8.13	98.38	105.70
38	4	113	U	C2-N1-C1'	-8.13	107.94	117.70
80	6	634	G	C5-C6-N1	8.13	115.56	111.50
85	5	798	G	O5'-P-OP1	8.13	120.46	110.70
85	5	1892	G	N1-C6-O6	8.13	124.78	119.90
85	5	2110	G	N3-C4-C5	8.13	132.67	128.60
85	5	2114	C	C5-C6-N1	8.13	125.07	121.00
85	5	3121	U	O5'-P-OP1	-8.13	98.38	105.70
38	8	52	A	N9-C4-C5	8.13	109.05	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1567	G	N1-C6-O6	-8.13	115.02	119.90
1	2	887	G	C8-N9-C4	8.13	109.65	106.40
36	1	139	G	O5'-P-OP1	8.13	120.45	110.70
36	1	211	A	C2-N3-C4	-8.13	106.54	110.60
36	1	358	G	C6-N1-C2	-8.13	120.22	125.10
36	1	588	G	C6-N1-C2	-8.13	120.22	125.10
36	1	1623	G	N1-C2-N3	8.13	128.78	123.90
38	4	28	C	OP1-P-OP2	-8.13	107.41	119.60
80	6	1565	C	C6-N1-C2	8.13	123.55	120.30
85	5	1193	A	C5-C6-N1	-8.13	113.64	117.70
85	5	1377	G	C5-N7-C8	-8.13	100.24	104.30
85	5	3135	U	OP1-P-OP2	-8.13	107.41	119.60
1	2	254	A	N3-C4-C5	8.13	132.49	126.80
1	2	607	G	C5-C6-O6	-8.12	123.72	128.60
36	1	1165	A	C4-C5-C6	8.13	121.06	117.00
36	1	1417	G	N7-C8-N9	-8.12	109.04	113.10
36	1	1821	U	N1-C2-O2	-8.12	117.11	122.80
36	1	2202	C	N3-C4-N4	8.13	123.69	118.00
36	1	2592	G	C8-N9-C4	8.12	109.65	106.40
80	6	273	G	C6-C5-N7	-8.13	125.53	130.40
80	6	579	A	N1-C2-N3	-8.12	125.24	129.30
80	6	1150	G	O5'-P-OP1	8.12	120.45	110.70
85	5	330	G	N1-C6-O6	8.12	124.78	119.90
85	5	1083	G	OP1-P-OP2	8.13	131.79	119.60
85	5	2238	G	N1-C2-N3	8.13	128.78	123.90
85	5	967	A	C6-N1-C2	-8.12	113.73	118.60
85	5	1079	A	C2-N3-C4	-8.12	106.54	110.60
85	5	1261	G	C4-C5-N7	8.12	114.05	110.80
85	5	1413	G	N3-C4-N9	-8.12	121.12	126.00
85	5	3123	A	OP1-P-OP2	-8.13	107.41	119.60
85	5	1489	A	N7-C8-N9	8.12	117.86	113.80
85	5	2773	C	O5'-P-OP2	8.12	120.45	110.70
85	5	3394	U	N1-C2-O2	-8.12	117.11	122.80
1	2	390	G	N1-C6-O6	8.12	124.77	119.90
36	1	140	C	C5-C4-N4	-8.12	114.51	120.20
36	1	611	A	C5-C6-N1	-8.12	113.64	117.70
36	1	2231	C	C5-C4-N4	-8.12	114.51	120.20
36	1	3066	U	N3-C4-C5	-8.12	109.73	114.60
80	6	340	U	N3-C2-O2	8.12	127.89	122.20
85	5	3116	G	N1-C6-O6	-8.12	115.03	119.90
36	1	2247	G	N3-C2-N2	-8.12	114.22	119.90
36	1	2501	U	O5'-P-OP2	-8.12	98.39	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2812	C	O5'-P-OP1	-8.12	98.39	105.70
80	6	35	U	C5-C6-N1	-8.12	118.64	122.70
80	6	798	C	C2-N3-C4	8.12	123.96	119.90
85	5	1044	U	N3-C4-O4	8.12	125.09	119.40
85	5	1255	C	O5'-P-OP1	-8.12	98.39	105.70
85	5	3318	G	O5'-P-OP1	-8.12	98.39	105.70
36	1	2931	C	N3-C4-N4	8.12	123.69	118.00
85	5	1091	A	C2-N3-C4	-8.12	106.54	110.60
85	5	2329	C	N3-C4-C5	-8.12	118.65	121.90
1	2	976	A	C2-N3-C4	-8.12	106.54	110.60
1	2	1628	G	C8-N9-C4	-8.12	103.15	106.40
36	1	426	G	N3-C4-N9	8.12	130.87	126.00
85	5	1866	C	C5-C6-N1	8.12	125.06	121.00
85	5	2179	C	C6-N1-C2	-8.12	117.05	120.30
36	1	227	G	C5-C6-N1	-8.12	107.44	111.50
36	1	1862	U	N3-C2-O2	-8.12	116.52	122.20
36	1	2738	A	C5-C6-N6	-8.12	117.20	123.70
36	1	3186	A	C8-N9-C4	-8.12	102.55	105.80
36	1	3301	U	N1-C2-N3	8.12	119.77	114.90
38	4	60	U	C6-N1-C2	8.12	125.87	121.00
85	5	1137	C	N1-C2-N3	8.12	124.88	119.20
85	5	1833	G	C2-N3-C4	8.12	115.96	111.90
36	1	2556	C	N3-C4-C5	8.12	125.15	121.90
36	1	2876	C	C5-C6-N1	8.12	125.06	121.00
80	6	1519	U	N3-C2-O2	-8.12	116.52	122.20
85	5	523	A	C2-N3-C4	-8.12	106.54	110.60
85	5	1453	A	C8-N9-C4	8.12	109.05	105.80
85	5	2179	C	OP1-P-OP2	-8.12	107.42	119.60
85	5	3218	A	O5'-P-OP1	8.12	120.44	110.70
38	8	111	A	N9-C4-C5	8.12	109.05	105.80
59	n3	57	MET	CG-SD-CE	8.12	113.19	100.20
37	3	5	G	C5-C6-O6	8.12	133.47	128.60
1	2	686	G	N9-C4-C5	8.11	108.65	105.40
1	2	1135	A	N1-C6-N6	8.12	123.47	118.60
36	1	92	G	N1-C2-N3	8.12	128.77	123.90
1	2	1440	C	C2-N3-C4	8.11	123.96	119.90
1	2	1707	U	N1-C2-N3	-8.11	110.03	114.90
36	1	109	A	C5-C6-N1	8.12	121.76	117.70
36	1	1404	G	C2-N3-C4	-8.11	107.84	111.90
36	1	2682	C	O5'-P-OP2	-8.12	98.40	105.70
80	6	1477	G	C2-N3-C4	-8.12	107.84	111.90
85	5	371	G	N3-C4-C5	8.11	132.66	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	835	G	O5'-P-OP2	-8.12	98.40	105.70
85	5	870	G	C4-C5-N7	8.11	114.05	110.80
85	5	1336	U	N1-C2-N3	8.11	119.77	114.90
85	5	1604	G	C5-N7-C8	8.12	108.36	104.30
85	5	1802	C	N3-C4-C5	8.12	125.15	121.90
85	5	2638	C	C5-C6-N1	8.11	125.06	121.00
85	5	2755	C	N3-C2-O2	-8.12	116.22	121.90
85	5	3153	U	C5-C4-O4	-8.12	121.03	125.90
85	5	3105	U	C2-N3-C4	-8.11	122.13	127.00
85	5	3215	A	C6-C5-N7	-8.11	126.62	132.30
85	5	3366	G	C5-C6-N1	8.11	115.56	111.50
1	2	73	U	N3-C4-C5	8.11	119.47	114.60
80	6	754	A	N1-C6-N6	8.11	123.47	118.60
36	1	264	G	N3-C2-N2	-8.11	114.22	119.90
36	1	586	C	O5'-P-OP1	8.11	120.44	110.70
36	1	758	C	N1-C2-N3	8.11	124.88	119.20
36	1	1484	U	OP2-P-O3'	8.11	123.05	105.20
36	1	1299	U	N1-C2-N3	-8.11	110.03	114.90
36	1	2192	C	N1-C2-O2	-8.11	114.03	118.90
36	1	2519	A	C4-C5-C6	8.11	121.06	117.00
36	1	3279	A	C5-C6-N1	8.11	121.76	117.70
85	5	273	A	N1-C2-N3	8.11	133.36	129.30
85	5	749	C	C6-N1-C2	-8.11	117.06	120.30
85	5	1304	A	C2-N3-C4	8.11	114.66	110.60
85	5	2757	U	O5'-P-OP1	-8.11	98.40	105.70
85	5	3183	A	C8-N9-C4	-8.11	102.56	105.80
36	1	1879	A	C4-C5-C6	8.11	121.06	117.00
1	2	307	G	N7-C8-N9	-8.11	109.05	113.10
1	2	943	U	N3-C2-O2	-8.11	116.52	122.20
36	1	366	A	N1-C2-N3	8.11	133.35	129.30
36	1	703	G	N9-C4-C5	8.11	108.64	105.40
36	1	1461	A	N9-C4-C5	-8.11	102.56	105.80
36	1	1703	U	C2-N3-C4	8.11	131.87	127.00
85	5	976	U	C5-C6-N1	-8.11	118.64	122.70
85	5	2836	C	N3-C4-C5	-8.11	118.66	121.90
36	1	3122	A	N1-C6-N6	-8.11	113.73	118.60
50	M4	74	ARG	NE-CZ-NH1	-8.11	116.25	120.30
36	1	154	U	C2-N1-C1'	-8.11	107.97	117.70
36	1	377	A	C2-N3-C4	8.11	114.65	110.60
36	1	1434	G	N3-C2-N2	-8.11	114.22	119.90
36	1	2837	A	N9-C4-C5	8.11	109.04	105.80
36	1	494	G	N3-C4-N9	8.11	130.86	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1499	C	C6-N1-C2	-8.11	117.06	120.30
80	6	209	U	N1-C2-O2	-8.11	117.13	122.80
80	6	1588	G	C8-N9-C4	8.11	109.64	106.40
80	6	1697	G	N3-C4-C5	-8.11	124.55	128.60
85	5	268	A	N1-C2-N3	8.11	133.35	129.30
85	5	294	U	C4-C5-C6	-8.11	114.84	119.70
85	5	420	G	N3-C4-C5	-8.11	124.55	128.60
85	5	1261	G	C5-C6-O6	-8.11	123.74	128.60
85	5	1386	A	O5'-P-OP1	-8.11	98.41	105.70
85	5	3029	A	O5'-P-OP2	8.11	120.43	110.70
36	1	333	G	N9-C4-C5	-8.10	102.16	105.40
36	1	2582	C	N3-C4-N4	8.10	123.67	118.00
1	2	30	G	C5-C6-O6	-8.10	123.74	128.60
36	1	798	G	C6-N1-C2	-8.10	120.24	125.10
85	5	510	G	C6-N1-C2	-8.10	120.24	125.10
85	5	819	U	OP2-P-O3'	8.10	123.03	105.20
85	5	866	A	N1-C6-N6	8.10	123.46	118.60
85	5	3068	U	C5-C6-N1	-8.10	118.65	122.70
85	5	3355	U	C5-C6-N1	-8.10	118.65	122.70
1	2	829	G	N1-C6-O6	-8.10	115.04	119.90
1	2	1060	C	N3-C4-C5	-8.10	118.66	121.90
1	2	1710	G	O5'-P-OP2	-8.10	98.41	105.70
1	2	1742	C	N3-C4-C5	-8.10	118.66	121.90
36	1	665	A	C5-N7-C8	-8.10	99.85	103.90
36	1	1123	U	N3-C4-O4	8.10	125.07	119.40
36	1	2623	G	N1-C2-N3	8.10	128.76	123.90
36	1	2794	G	O5'-P-OP2	-8.10	98.41	105.70
80	6	288	A	N1-C6-N6	-8.10	113.74	118.60
85	5	381	U	N3-C2-O2	8.10	127.87	122.20
85	5	2130	G	C5-C6-N1	-8.10	107.45	111.50
85	5	801	A	OP2-P-O3'	-8.10	87.38	105.20
85	5	990	U	N1-C2-N3	8.10	119.76	114.90
85	5	2238	G	C2-N3-C4	-8.10	107.85	111.90
85	5	3037	U	N3-C2-O2	8.10	127.87	122.20
1	2	275	C	C2-N3-C4	8.10	123.95	119.90
85	5	354	U	C5-C4-O4	-8.10	121.04	125.90
85	5	1461	A	N9-C4-C5	8.10	109.04	105.80
36	1	268	A	C4-C5-N7	-8.10	106.65	110.70
36	1	585	A	N1-C2-N3	8.10	133.35	129.30
36	1	1311	G	C2-N3-C4	-8.10	107.85	111.90
36	1	1782	U	N1-C2-N3	-8.10	110.04	114.90
36	1	3261	C	C2-N3-C4	-8.10	115.85	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	366	A	N7-C8-N9	-8.10	109.75	113.80
85	5	3060	C	N3-C2-O2	8.10	127.57	121.90
85	5	1001	G	C5-N7-C8	8.10	108.35	104.30
1	2	164	A	C8-N9-C4	8.10	109.04	105.80
1	2	1023	G	N7-C8-N9	8.10	117.15	113.10
1	2	1771	G	N1-C2-N3	8.10	128.76	123.90
36	1	736	A	N1-C6-N6	8.10	123.46	118.60
36	1	894	G	C4-C5-C6	8.10	123.66	118.80
36	1	1154	A	N1-C2-N3	8.10	133.35	129.30
36	1	3048	A	C4-C5-C6	8.10	121.05	117.00
36	1	754	G	O5'-P-OP2	8.10	120.42	110.70
36	1	3256	G	N1-C6-O6	8.10	124.76	119.90
38	4	114	G	C2-N3-C4	-8.10	107.85	111.90
38	4	116	G	C8-N9-C1'	-8.10	116.48	127.00
80	6	495	C	C6-N1-C2	-8.10	117.06	120.30
80	6	518	A	C4-C5-N7	-8.10	106.65	110.70
80	6	1529	C	C2-N3-C4	8.10	123.95	119.90
85	5	878	G	N3-C4-C5	-8.10	124.55	128.60
85	5	2754	G	N1-C2-N2	-8.10	108.91	116.20
85	5	3026	G	C4-C5-N7	8.10	114.04	110.80
37	7	6	C	N1-C2-O2	-8.10	114.04	118.90
80	6	1301	U	N1-C2-N3	-8.10	110.04	114.90
85	5	786	A	C8-N9-C4	-8.10	102.56	105.80
1	2	10	G	C4-C5-N7	-8.09	107.56	110.80
36	1	31	C	C6-N1-C2	-8.09	117.06	120.30
36	1	201	A	N3-C4-C5	8.09	132.47	126.80
36	1	975	C	N3-C4-N4	8.09	123.67	118.00
36	1	1097	G	C5-N7-C8	-8.09	100.25	104.30
36	1	1329	U	C6-N1-C2	-8.09	116.14	121.00
36	1	2294	U	N1-C2-O2	-8.09	117.13	122.80
36	1	3018	C	N3-C2-O2	-8.09	116.23	121.90
85	5	1127	G	C2-N3-C4	8.09	115.95	111.90
85	5	1913	A	N7-C8-N9	8.09	117.85	113.80
36	1	1617	G	C5-C6-O6	-8.09	123.75	128.60
36	1	2305	G	N3-C4-C5	-8.09	124.55	128.60
36	1	2396	G	N3-C4-N9	-8.09	121.14	126.00
36	1	2599	U	O5'-P-OP2	8.09	120.41	110.70
85	5	1682	U	N3-C4-C5	-8.09	109.74	114.60
44	L7	144	ILE	CG1-CB-CG2	-8.09	93.60	111.40
80	6	158	U	C4-C5-C6	-8.09	114.84	119.70
80	6	755	A	C4-C5-N7	8.09	114.75	110.70
80	6	1768	G	C2-N3-C4	-8.09	107.85	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	980	A	C6-C5-N7	8.09	137.97	132.30
85	5	184	U	N3-C2-O2	-8.09	116.54	122.20
85	5	961	C	N3-C4-C5	-8.09	118.66	121.90
85	5	2136	C	C2-N3-C4	-8.09	115.85	119.90
85	5	3266	G	N1-C6-O6	-8.09	115.04	119.90
85	5	3006	A	C6-N1-C2	-8.09	113.75	118.60
37	7	6	C	C4-C5-C6	8.09	121.45	117.40
47	m0	90	ARG	NE-CZ-NH2	8.09	124.35	120.30
1	2	1627	C	O5'-P-OP2	-8.09	98.42	105.70
80	6	750	U	OP2-P-O3'	8.09	123.00	105.20
36	1	1213	G	N9-C4-C5	-8.09	102.16	105.40
36	1	1522	U	N3-C2-O2	-8.09	116.54	122.20
36	1	1919	G	C5-C6-O6	-8.09	123.75	128.60
36	1	3224	G	C6-C5-N7	-8.09	125.55	130.40
80	6	560	U	N3-C4-O4	8.09	125.06	119.40
80	6	54	C	C5-C4-N4	8.09	125.86	120.20
80	6	186	C	C6-N1-C2	8.09	123.54	120.30
85	5	580	C	N1-C2-N3	8.09	124.86	119.20
85	5	2273	G	N1-C2-N3	8.09	128.75	123.90
85	5	2410	U	N3-C4-C5	-8.09	109.75	114.60
85	5	2605	G	N1-C6-O6	8.09	124.75	119.90
85	5	2664	C	C2-N3-C4	8.09	123.94	119.90
85	5	3394	U	C5-C6-N1	-8.09	118.66	122.70
36	1	1005	G	C5-C6-N1	-8.09	107.46	111.50
36	1	1150	A	N1-C6-N6	-8.09	113.75	118.60
36	1	1834	U	C5-C6-N1	-8.09	118.66	122.70
85	5	2654	C	C4-C5-C6	-8.09	113.36	117.40
1	2	1168	U	C2-N1-C1'	8.09	127.40	117.70
1	2	1550	U	N1-C2-N3	8.09	119.75	114.90
1	2	1642	A	N7-C8-N9	8.09	117.84	113.80
80	6	364	G	C2-N3-C4	-8.09	107.86	111.90
80	6	984	G	C5-C6-N1	-8.09	107.46	111.50
80	6	1789	G	N1-C6-O6	-8.09	115.05	119.90
85	5	718	G	N1-C2-N2	-8.09	108.92	116.20
85	5	884	A	C4-C5-N7	8.09	114.74	110.70
85	5	1250	G	C5-C6-O6	8.09	133.45	128.60
85	5	2339	C	C2-N3-C4	8.09	123.94	119.90
85	5	2900	A	OP2-P-O3'	8.09	122.99	105.20
1	2	1183	G	C6-C5-N7	-8.08	125.55	130.40
36	1	2597	U	C4-C5-C6	8.08	124.55	119.70
36	1	2689	A	N9-C4-C5	8.08	109.03	105.80
36	1	407	A	OP2-P-O3'	8.08	122.98	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1867	A	N1-C2-N3	8.08	133.34	129.30
36	1	2097	U	N3-C2-O2	8.08	127.86	122.20
36	1	2226	U	N1-C2-O2	-8.08	117.14	122.80
36	1	2944	U	N3-C2-O2	-8.08	116.54	122.20
80	6	279	G	C5-C6-N1	-8.08	107.46	111.50
80	6	586	G	C8-N9-C4	8.08	109.63	106.40
80	6	1581	C	C5-C6-N1	-8.08	116.96	121.00
85	5	782	U	C4-C5-C6	8.08	124.55	119.70
85	5	422	A	N1-C2-N3	8.08	133.34	129.30
85	5	816	A	N9-C4-C5	8.08	109.03	105.80
1	2	57	G	C6-C5-N7	-8.08	125.55	130.40
36	1	271	C	OP1-P-OP2	-8.08	107.48	119.60
36	1	3391	A	C5-N7-C8	-8.08	99.86	103.90
85	5	306	A	N1-C2-N3	8.08	133.34	129.30
36	1	1058	U	C4-C5-C6	8.08	124.55	119.70
36	1	2899	C	C5-C6-N1	-8.08	116.96	121.00
38	4	16	G	C4-C5-N7	-8.08	107.57	110.80
38	4	152	G	N3-C4-C5	8.08	132.64	128.60
85	5	983	A	C5-C6-N6	8.08	130.16	123.70
85	5	1073	U	N3-C4-O4	8.08	125.06	119.40
85	5	3055	U	N3-C4-C5	-8.08	109.75	114.60
1	2	20	G	C2-N3-C4	-8.08	107.86	111.90
1	2	1115	A	C4-C5-N7	-8.08	106.66	110.70
36	1	268	A	C4-C5-C6	8.08	121.04	117.00
36	1	682	U	N1-C2-N3	8.08	119.75	114.90
36	1	754	G	OP1-P-OP2	-8.08	107.48	119.60
36	1	1116	G	N3-C2-N2	-8.08	114.25	119.90
36	1	1462	A	C6-N1-C2	-8.08	113.75	118.60
36	1	2870	C	OP2-P-O3'	-8.08	87.43	105.20
80	6	1725	U	C4-C5-C6	8.08	124.55	119.70
85	5	283	G	N1-C6-O6	8.08	124.75	119.90
85	5	3070	A	C5-N7-C8	-8.08	99.86	103.90
36	1	505	G	C8-N9-C4	8.08	109.63	106.40
36	1	3060	C	C4-C5-C6	8.08	121.44	117.40
85	5	353	G	C6-N1-C2	-8.08	120.25	125.10
85	5	924	G	C8-N9-C4	-8.08	103.17	106.40
85	5	1137	C	N3-C2-O2	-8.08	116.25	121.90
85	5	1321	G	N3-C4-C5	8.08	132.64	128.60
85	5	1454	A	C6-C5-N7	-8.08	126.65	132.30
85	5	1471	U	C2-N3-C4	-8.08	122.16	127.00
85	5	1840	U	N1-C2-N3	8.08	119.75	114.90
85	5	2708	C	N3-C4-N4	8.08	123.65	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2778	G	C6-N1-C2	-8.08	120.25	125.10
1	2	845	A	C4-C5-N7	-8.07	106.66	110.70
1	2	1103	U	C5-C4-O4	8.07	130.74	125.90
36	1	894	G	N1-C2-N3	8.07	128.75	123.90
36	1	1600	U	N3-C4-C5	8.07	119.44	114.60
36	1	1629	U	O5'-P-OP2	-8.07	98.43	105.70
36	1	3381	U	O5'-P-OP2	-8.07	98.43	105.70
85	5	1888	U	N3-C2-O2	-8.07	116.55	122.20
36	1	305	U	N1-C2-O2	-8.07	117.15	122.80
36	1	2165	G	N1-C6-O6	8.07	124.74	119.90
36	1	2722	U	C5-C4-O4	-8.07	121.06	125.90
80	6	1703	C	C2-N3-C4	8.07	123.94	119.90
80	6	1724	U	O5'-P-OP2	8.07	120.39	110.70
85	5	1683	A	O5'-P-OP1	-8.07	98.43	105.70
85	5	532	A	N7-C8-N9	8.07	117.84	113.80
85	5	1420	C	C2-N3-C4	-8.07	115.86	119.90
36	1	287	G	C5-C6-O6	-8.07	123.76	128.60
36	1	420	G	N3-C4-C5	-8.07	124.56	128.60
36	1	1155	C	C4-C5-C6	-8.07	113.36	117.40
36	1	1514	G	C5-N7-C8	-8.07	100.26	104.30
36	1	2599	U	N3-C4-O4	8.07	125.05	119.40
36	1	2735	U	N3-C2-O2	-8.07	116.55	122.20
36	1	2738	A	C8-N9-C4	-8.07	102.57	105.80
36	1	2982	A	N3-C4-C5	-8.07	121.15	126.80
74	O8	46	ARG	NE-CZ-NH1	8.07	124.34	120.30
80	6	634	G	C6-N1-C2	-8.07	120.26	125.10
80	6	1004	U	N1-C2-N3	8.07	119.74	114.90
85	5	39	A	OP2-P-O3'	8.07	122.96	105.20
85	5	67	A	N9-C4-C5	-8.07	102.57	105.80
85	5	361	A	C5-C6-N6	8.07	130.16	123.70
85	5	518	G	N3-C4-N9	-8.07	121.16	126.00
85	5	3105	U	N1-C2-O2	-8.07	117.15	122.80
85	5	3121	U	N3-C4-O4	-8.07	113.75	119.40
36	1	659	G	N3-C2-N2	8.07	125.55	119.90
36	1	3095	U	N3-C4-O4	8.07	125.05	119.40
36	1	3120	C	C4-C5-C6	-8.07	113.36	117.40
80	6	1153	G	C5-C6-O6	8.07	133.44	128.60
80	6	1590	G	N3-C4-C5	8.07	132.63	128.60
85	5	227	G	O5'-P-OP2	-8.07	98.44	105.70
85	5	1508	C	C5-C6-N1	-8.07	116.97	121.00
85	5	1598	G	N1-C2-N2	-8.07	108.94	116.20
85	5	2421	U	C5-C6-N1	-8.07	118.67	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3141	A	C6-C5-N7	-8.07	126.65	132.30
85	5	3228	C	N3-C2-O2	-8.07	116.25	121.90
85	5	214	G	C8-N9-C4	-8.07	103.17	106.40
85	5	217	U	N3-C2-O2	8.07	127.85	122.20
85	5	3121	U	O5'-P-OP2	8.07	120.38	110.70
36	1	754	G	C6-N1-C2	8.07	129.94	125.10
36	1	1422	G	N1-C6-O6	-8.07	115.06	119.90
36	1	2937	G	OP2-P-O3'	8.07	122.94	105.20
80	6	601	A	C8-N9-C4	-8.07	102.57	105.80
80	6	1300	A	N1-C6-N6	-8.07	113.76	118.60
85	5	591	G	N3-C4-C5	8.07	132.63	128.60
85	5	728	G	OP2-P-O3'	8.07	122.94	105.20
85	5	1153	A	C5-C6-N1	8.07	121.73	117.70
85	5	1677	G	C5-C6-N1	8.07	115.53	111.50
85	5	1844	C	C2-N3-C4	-8.07	115.87	119.90
85	5	2122	G	O5'-P-OP2	8.07	120.38	110.70
85	5	2205	U	N1-C2-N3	-8.07	110.06	114.90
85	5	3033	A	N1-C2-N3	8.07	133.33	129.30
36	1	64	G	C6-N1-C2	-8.06	120.26	125.10
36	1	1135	A	C6-N1-C2	-8.06	113.76	118.60
36	1	1910	A	C6-N1-C2	8.06	123.44	118.60
36	1	2834	G	C2-N3-C4	-8.06	107.87	111.90
36	1	2908	G	C5-C6-O6	-8.06	123.76	128.60
80	6	445	A	C4-C5-N7	8.06	114.73	110.70
80	6	920	U	C6-N1-C2	-8.06	116.16	121.00
85	5	702	C	C5-C6-N1	8.06	125.03	121.00
85	5	2734	A	N7-C8-N9	8.06	117.83	113.80
85	5	2952	G	C5-N7-C8	-8.06	100.27	104.30
36	1	215	G	OP1-P-OP2	-8.06	107.51	119.60
80	6	158	U	P-O3'-C3'	8.06	129.37	119.70
80	6	1658	G	N9-C4-C5	-8.06	102.17	105.40
36	1	105	C	N3-C4-N4	8.06	123.64	118.00
36	1	371	G	C6-C5-N7	-8.06	125.56	130.40
36	1	746	A	N1-C2-N3	8.06	133.33	129.30
36	1	1675	G	N3-C2-N2	8.06	125.54	119.90
80	6	890	C	C6-N1-C2	8.06	123.53	120.30
85	5	1161	G	N1-C6-O6	-8.06	115.06	119.90
36	1	2521	U	C6-N1-C2	8.06	125.84	121.00
36	1	2610	G	C4-C5-N7	8.06	114.02	110.80
38	4	107	G	N1-C2-N2	-8.06	108.94	116.20
38	4	144	G	N7-C8-N9	-8.06	109.07	113.10
85	5	947	G	C6-C5-N7	-8.06	125.56	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	4	C	N3-C2-O2	-8.06	116.26	121.90
80	6	1147	A	N7-C8-N9	8.06	117.83	113.80
85	5	1813	A	C8-N9-C4	-8.06	102.58	105.80
85	5	2281	A	N1-C6-N6	-8.06	113.76	118.60
85	5	2977	G	N3-C4-C5	-8.06	124.57	128.60
38	8	73	U	N3-C4-C5	8.06	119.44	114.60
36	1	1126	G	N7-C8-N9	8.06	117.13	113.10
36	1	2915	U	N3-C4-O4	8.06	125.04	119.40
38	4	134	G	C4-C5-N7	8.06	114.02	110.80
85	5	139	G	C5-N7-C8	-8.06	100.27	104.30
80	6	90	C	C5-C6-N1	-8.06	116.97	121.00
80	6	437	A	C6-N1-C2	-8.06	113.77	118.60
85	5	2755	C	OP2-P-O3'	8.06	122.93	105.20
85	5	2766	U	C2-N3-C4	-8.06	122.17	127.00
80	6	985	G	C5-N7-C8	-8.06	100.27	104.30
80	6	1207	C	N3-C2-O2	8.06	127.54	121.90
85	5	315	C	N3-C2-O2	-8.06	116.26	121.90
85	5	531	G	C8-N9-C4	-8.06	103.18	106.40
85	5	1698	C	N3-C4-N4	8.06	123.64	118.00
85	5	1815	U	C6-N1-C2	8.06	125.83	121.00
85	5	2549	G	N1-C2-N3	-8.06	119.06	123.90
37	7	95	A	C4-C5-C6	8.06	121.03	117.00
38	8	121	U	C5-C6-N1	8.06	126.73	122.70
1	2	334	G	C2-N3-C4	-8.05	107.87	111.90
1	2	1417	U	N3-C4-C5	-8.06	109.77	114.60
36	1	903	U	OP1-P-O3'	8.05	122.92	105.20
36	1	2501	U	C2-N3-C4	8.06	131.83	127.00
36	1	2602	G	N1-C2-N3	8.05	128.73	123.90
36	1	2751	G	N1-C6-O6	8.06	124.73	119.90
36	1	2813	A	C2-N3-C4	-8.05	106.57	110.60
36	1	2920	U	N3-C4-C5	8.05	119.43	114.60
36	1	2995	A	N1-C2-N3	8.05	133.33	129.30
36	1	3300	U	C5-C6-N1	-8.06	118.67	122.70
80	6	1752	U	OP1-P-OP2	-8.05	107.52	119.60
85	5	3231	U	C5-C4-O4	8.06	130.73	125.90
36	1	1099	A	OP1-P-OP2	-8.05	107.52	119.60
36	1	1713	G	C8-N9-C4	-8.05	103.18	106.40
36	1	2684	C	N3-C2-O2	8.05	127.54	121.90
85	5	518	G	C5-N7-C8	8.05	108.33	104.30
85	5	1788	C	N1-C2-O2	8.05	123.73	118.90
85	5	2152	A	N1-C2-N3	8.05	133.33	129.30
85	5	2845	A	O5'-P-OP2	-8.05	98.45	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2985	C	C4-C5-C6	-8.05	113.37	117.40
85	5	2994	A	N7-C8-N9	8.05	117.83	113.80
85	5	3149	G	N1-C6-O6	8.05	124.73	119.90
85	5	3146	G	N1-C2-N2	-8.05	108.95	116.20
37	7	102	A	N3-C4-C5	8.05	132.44	126.80
1	2	1138	G	C8-N9-C4	8.05	109.62	106.40
36	1	973	A	C4-C5-N7	-8.05	106.67	110.70
36	1	1194	G	C8-N9-C4	-8.05	103.18	106.40
36	1	2838	A	N1-C2-N3	8.05	133.33	129.30
36	1	3171	U	O4'-C1'-N1	8.05	114.64	108.20
85	5	1184	A	C8-N9-C4	8.05	109.02	105.80
36	1	329	U	C2-N3-C4	-8.05	122.17	127.00
36	1	1101	G	N1-C2-N2	8.05	123.44	116.20
36	1	1308	A	N9-C4-C5	8.05	109.02	105.80
80	6	448	C	C4-C5-C6	8.05	121.43	117.40
36	1	2225	U	N3-C4-C5	-8.05	109.77	114.60
36	1	2364	G	N1-C6-O6	-8.05	115.07	119.90
37	3	23	A	C5-N7-C8	-8.05	99.88	103.90
80	6	1012	U	N3-C4-C5	8.05	119.43	114.60
80	6	1213	G	N9-C4-C5	-8.05	102.18	105.40
85	5	119	U	C2-N3-C4	-8.05	122.17	127.00
85	5	1157	G	C8-N9-C4	8.05	109.62	106.40
85	5	1661	G	O5'-P-OP1	8.05	120.36	110.70
85	5	3028	G	N3-C2-N2	8.05	125.54	119.90
85	5	3112	G	C4-C5-N7	8.05	114.02	110.80
37	7	93	C	O5'-P-OP2	-8.05	98.45	105.70
36	1	305	U	C5-C4-O4	8.05	130.73	125.90
36	1	324	A	C5-N7-C8	-8.05	99.88	103.90
36	1	1513	G	N3-C4-N9	8.05	130.83	126.00
36	1	2201	G	C5-C6-N1	-8.05	107.48	111.50
85	5	496	C	N3-C2-O2	-8.05	116.27	121.90
85	5	1606	U	N1-C2-N3	8.05	119.73	114.90
1	2	354	C	N3-C4-N4	8.05	123.63	118.00
36	1	206	G	C5-N7-C8	-8.05	100.28	104.30
36	1	369	A	C5-C6-N1	8.05	121.72	117.70
36	1	389	A	C8-N9-C4	-8.05	102.58	105.80
36	1	782	U	C4-C5-C6	-8.05	114.87	119.70
36	1	1025	A	C8-N9-C4	-8.05	102.58	105.80
36	1	1111	U	C5-C6-N1	-8.05	118.68	122.70
36	1	1318	A	OP1-P-OP2	8.05	131.67	119.60
36	1	1377	G	C5-N7-C8	-8.05	100.28	104.30
36	1	1394	A	C6-N1-C2	-8.05	113.77	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1480	G	N3-C4-C5	8.05	132.62	128.60
36	1	3139	A	C6-N1-C2	-8.05	113.77	118.60
36	1	2618	G	C2-N3-C4	-8.05	107.88	111.90
36	1	2699	G	C6-C5-N7	-8.05	125.57	130.40
36	1	3012	A	O5'-P-OP2	8.05	120.36	110.70
80	6	1645	G	N3-C4-N9	-8.05	121.17	126.00
85	5	207	U	OP1-P-O3'	8.05	122.91	105.20
85	5	266	A	C6-N1-C2	-8.05	113.77	118.60
85	5	641	C	N1-C2-O2	-8.05	114.07	118.90
85	5	1063	G	C5-N7-C8	-8.05	100.28	104.30
85	5	1833	G	N1-C2-N3	-8.05	119.07	123.90
85	5	1932	A	C8-N9-C4	8.05	109.02	105.80
85	5	2414	G	C4-C5-C6	-8.05	113.97	118.80
85	5	2549	G	N1-C2-N2	8.05	123.44	116.20
85	5	3254	G	N1-C6-O6	8.05	124.73	119.90
36	1	103	G	N3-C2-N2	-8.05	114.27	119.90
36	1	734	C	C6-N1-C2	-8.05	117.08	120.30
36	1	1000	C	N3-C4-N4	8.05	123.63	118.00
36	1	1396	C	C5-C4-N4	-8.05	114.57	120.20
1	2	1367	A	C8-N9-C4	8.04	109.02	105.80
36	1	1375	G	N3-C2-N2	-8.04	114.27	119.90
36	1	1634	G	N3-C4-C5	-8.04	124.58	128.60
38	4	29	U	C6-N1-C2	8.04	125.83	121.00
80	6	358	U	C2-N1-C1'	8.04	127.35	117.70
85	5	1130	A	C2-N3-C4	8.05	114.62	110.60
80	6	632	U	N3-C4-O4	-8.04	113.77	119.40
80	6	985	G	C6-C5-N7	-8.04	125.57	130.40
80	6	1267	G	C8-N9-C4	8.04	109.62	106.40
80	6	1632	C	C6-N1-C2	8.04	123.52	120.30
85	5	90	C	N3-C2-O2	8.04	127.53	121.90
85	5	811	U	N1-C2-N3	8.04	119.73	114.90
85	5	1433	A	C6-N1-C2	-8.04	113.77	118.60
38	8	121	U	N1-C2-O2	8.05	128.43	122.80
1	2	988	A	N1-C6-N6	-8.04	113.77	118.60
36	1	692	A	N9-C4-C5	8.04	109.02	105.80
36	1	1066	G	C6-C5-N7	-8.04	125.57	130.40
36	1	1915	A	C2-N3-C4	-8.04	106.58	110.60
36	1	2906	C	N1-C2-N3	8.04	124.83	119.20
80	6	1722	A	C5-C6-N6	8.04	130.13	123.70
85	5	386	A	N1-C6-N6	-8.04	113.77	118.60
38	8	85	G	O5'-P-OP2	8.04	120.35	110.70
36	1	2682	C	OP1-P-OP2	8.04	131.66	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2910	A	N1-C6-N6	-8.04	113.78	118.60
38	4	155	A	C5-C6-N1	-8.04	113.68	117.70
80	6	788	A	N1-C2-N3	8.04	133.32	129.30
80	6	1007	C	O5'-P-OP1	-8.04	98.46	105.70
80	6	1131	A	C5-N7-C8	-8.04	99.88	103.90
85	5	494	G	C4-C5-N7	8.04	114.02	110.80
85	5	1156	C	N3-C2-O2	8.04	127.53	121.90
85	5	1788	C	C4-C5-C6	8.04	121.42	117.40
1	2	538	A	C4-C5-N7	8.04	114.72	110.70
36	1	673	U	C5-C6-N1	8.04	126.72	122.70
80	6	984	G	C5-C6-O6	8.04	133.42	128.60
36	1	678	G	C5-C6-O6	-8.04	123.78	128.60
36	1	705	A	C5-C6-N6	-8.04	117.27	123.70
36	1	725	G	N1-C6-O6	8.04	124.72	119.90
36	1	1868	G	C8-N9-C4	-8.04	103.19	106.40
36	1	2890	A	C4-C5-N7	-8.04	106.68	110.70
80	6	540	G	N1-C2-N2	-8.04	108.97	116.20
80	6	624	G	N1-C6-O6	8.04	124.72	119.90
80	6	1199	G	C4-C5-N7	8.04	114.02	110.80
85	5	845	G	C8-N9-C4	8.04	109.62	106.40
85	5	978	G	C6-N1-C2	-8.04	120.28	125.10
36	1	1069	C	C2-N3-C4	-8.04	115.88	119.90
36	1	1305	U	O5'-P-OP1	-8.04	98.47	105.70
36	1	2925	C	C6-N1-C2	8.04	123.52	120.30
36	1	3279	A	C8-N9-C4	-8.04	102.58	105.80
37	3	30	G	C6-C5-N7	-8.04	125.58	130.40
85	5	383	G	C4-C5-C6	8.04	123.62	118.80
85	5	422	A	N1-C6-N6	-8.04	113.78	118.60
85	5	501	A	C5-N7-C8	8.04	107.92	103.90
85	5	1541	G	C6-N1-C2	8.04	129.92	125.10
85	5	2298	U	C6-N1-C2	-8.04	116.18	121.00
36	1	573	C	C5-C6-N1	-8.04	116.98	121.00
36	1	710	A	C5-N7-C8	-8.04	99.88	103.90
36	1	1454	A	N1-C2-N3	8.04	133.32	129.30
36	1	1493	G	C2-N3-C4	-8.04	107.88	111.90
36	1	2223	A	C5-C6-N1	-8.04	113.68	117.70
36	1	2310	U	C2-N3-C4	8.04	131.82	127.00
80	6	1730	A	N1-C6-N6	8.04	123.42	118.60
85	5	376	G	C8-N9-C4	-8.04	103.19	106.40
85	5	2733	A	N7-C8-N9	-8.04	109.78	113.80
36	1	771	A	C4-C5-N7	8.03	114.72	110.70
36	1	991	G	C5-C6-O6	8.03	133.42	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2425	G	N1-C6-O6	-8.04	115.08	119.90
36	1	3069	G	C2-N3-C4	8.03	115.92	111.90
85	5	1081	U	C6-N1-C2	-8.03	116.18	121.00
85	5	1388	U	C5-C6-N1	8.04	126.72	122.70
85	5	1475	A	O5'-P-OP1	8.04	120.34	110.70
85	5	3254	G	C8-N9-C4	-8.04	103.19	106.40
85	5	1631	C	C4-C5-C6	8.03	121.42	117.40
85	5	2660	G	O5'-P-OP1	8.03	120.34	110.70
85	5	2675	C	C6-N1-C2	-8.04	117.09	120.30
85	5	3149	G	N9-C4-C5	-8.03	102.19	105.40
1	2	1093	G	C5-C6-O6	8.03	133.42	128.60
37	3	39	C	N3-C4-N4	-8.03	112.38	118.00
80	6	464	A	N1-C2-N3	8.03	133.32	129.30
80	6	1108	G	N1-C2-N3	8.03	128.72	123.90
85	5	1850	A	N1-C2-N3	8.03	133.32	129.30
36	1	921	A	C5-N7-C8	8.03	107.92	103.90
36	1	1474	A	N7-C8-N9	8.03	117.81	113.80
36	1	1747	G	C8-N9-C4	-8.03	103.19	106.40
36	1	2964	G	C6-N1-C2	-8.03	120.28	125.10
80	6	833	U	N3-C4-O4	-8.03	113.78	119.40
80	6	834	G	N9-C4-C5	-8.03	102.19	105.40
80	6	1001	A	C5-N7-C8	-8.03	99.89	103.90
85	5	2738	A	N1-C6-N6	-8.03	113.78	118.60
38	8	86	U	C5-C4-O4	-8.03	121.08	125.90
1	2	419	G	N1-C2-N2	-8.03	108.97	116.20
1	2	1703	G	N9-C4-C5	-8.03	102.19	105.40
36	1	2151	C	N3-C4-C5	-8.03	118.69	121.90
85	5	3071	U	N3-C4-O4	8.03	125.02	119.40
36	1	517	G	N9-C4-C5	8.03	108.61	105.40
36	1	2222	A	N9-C4-C5	8.03	109.01	105.80
36	1	2628	A	N1-C6-N6	-8.03	113.78	118.60
36	1	2687	G	N1-C6-O6	-8.03	115.08	119.90
36	1	3028	G	C5-C6-N1	8.03	115.51	111.50
37	3	46	A	C8-N9-C4	-8.03	102.59	105.80
80	6	1145	U	C5-C4-O4	-8.03	121.08	125.90
85	5	298	U	C5-C4-O4	8.03	130.72	125.90
85	5	1407	A	N1-C2-N3	8.03	133.31	129.30
85	5	1502	C	OP1-P-OP2	-8.03	107.56	119.60
85	5	1574	C	C2-N3-C4	8.03	123.91	119.90
1	2	324	U	C4-C5-C6	8.03	124.52	119.70
1	2	1576	A	N1-C2-N3	8.03	133.31	129.30
36	1	1636	U	N3-C4-O4	8.03	125.02	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1618	C	C5-C6-N1	-8.03	116.99	121.00
85	5	1494	U	N1-C2-O2	-8.03	117.18	122.80
85	5	2732	G	N3-C2-N2	-8.03	114.28	119.90
36	1	610	G	N1-C6-O6	8.03	124.72	119.90
36	1	2138	A	C2-N3-C4	-8.03	106.59	110.60
80	6	635	A	C2-N3-C4	-8.03	106.59	110.60
80	6	1743	U	C4-C5-C6	8.03	124.52	119.70
85	5	136	G	C5-C6-O6	-8.03	123.78	128.60
85	5	569	A	C6-C5-N7	8.03	137.92	132.30
85	5	825	U	C5-C4-O4	8.03	130.72	125.90
85	5	2367	A	OP1-P-OP2	8.03	131.64	119.60
85	5	2925	C	C2-N3-C4	-8.03	115.89	119.90
1	2	341	A	C2-N3-C4	-8.02	106.59	110.60
36	1	64	G	C4-C5-N7	-8.02	107.59	110.80
36	1	110	G	C5-C6-N1	-8.02	107.49	111.50
36	1	797	U	OP1-P-O3'	8.02	122.85	105.20
36	1	909	G	C2-N3-C4	-8.02	107.89	111.90
36	1	2225	U	C4-C5-C6	8.02	124.51	119.70
36	1	849	C	O5'-P-OP2	-8.02	98.48	105.70
36	1	1356	U	C6-N1-C2	8.02	125.81	121.00
36	1	1722	U	C5-C6-N1	-8.02	118.69	122.70
36	1	1857	C	O5'-P-OP2	-8.02	98.48	105.70
36	1	2227	C	C5-C6-N1	-8.02	116.99	121.00
36	1	3366	G	N1-C2-N3	8.02	128.71	123.90
85	5	1656	A	N1-C2-N3	8.02	133.31	129.30
36	1	2160	G	C6-C5-N7	8.02	135.21	130.40
85	5	640	U	C4-C5-C6	8.02	124.51	119.70
85	5	669	U	C5-C6-N1	-8.02	118.69	122.70
85	5	851	C	N3-C4-C5	-8.02	118.69	121.90
85	5	3167	A	C4-C5-C6	8.02	121.01	117.00
1	2	379	U	N3-C4-C5	-8.02	109.79	114.60
38	4	79	A	C5-N7-C8	8.02	107.91	103.90
36	1	2253	G	N1-C6-O6	8.02	124.71	119.90
36	1	2718	U	C5-C4-O4	-8.02	121.09	125.90
36	1	3072	C	N3-C4-N4	-8.02	112.39	118.00
36	1	3148	U	N1-C2-O2	-8.02	117.19	122.80
36	1	3192	U	N1-C2-O2	-8.02	117.19	122.80
37	3	87	G	N7-C8-N9	8.02	117.11	113.10
85	5	39	A	N9-C4-C5	8.02	109.01	105.80
85	5	225	C	C5-C4-N4	-8.02	114.59	120.20
85	5	942	U	O5'-P-OP2	-8.02	98.48	105.70
85	5	26	A	C5-N7-C8	8.02	107.91	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	503	C	N3-C4-N4	8.02	123.61	118.00
85	5	1019	G	C6-C5-N7	8.02	135.21	130.40
85	5	1181	U	C4-C5-C6	8.02	124.51	119.70
85	5	1882	G	N7-C8-N9	8.02	117.11	113.10
85	5	2848	G	N1-C6-O6	-8.02	115.09	119.90
38	8	125	U	N1-C2-N3	-8.02	110.09	114.90
85	5	2096	A	C8-N9-C4	-8.02	102.59	105.80
85	5	2755	C	O5'-P-OP1	-8.02	98.48	105.70
36	1	93	C	C5-C6-N1	8.02	125.01	121.00
36	1	714	G	C6-N1-C2	-8.02	120.29	125.10
36	1	2921	U	C5-C6-N1	-8.02	118.69	122.70
80	6	681	U	C5-C4-O4	-8.02	121.09	125.90
80	6	1322	A	N7-C8-N9	-8.02	109.79	113.80
1	2	284	G	N3-C4-C5	8.02	132.61	128.60
1	2	1779	C	N3-C4-C5	-8.02	118.69	121.90
36	1	24	G	OP1-P-OP2	-8.02	107.58	119.60
36	1	811	U	C5-C6-N1	-8.02	118.69	122.70
36	1	3230	G	OP1-P-O3'	-8.02	87.57	105.20
37	3	109	G	C5-C6-N1	8.02	115.51	111.50
52	M6	41	LEU	CB-CG-CD2	-8.02	97.37	111.00
80	6	162	A	O4'-C1'-N9	-8.02	101.79	108.20
80	6	423	G	C5-C6-N1	8.02	115.51	111.50
85	5	358	G	C5-N7-C8	-8.02	100.29	104.30
85	5	639	G	OP1-P-OP2	-8.02	107.58	119.60
85	5	626	U	C4-C5-C6	8.02	124.51	119.70
85	5	901	G	N1-C2-N3	8.02	128.71	123.90
85	5	1468	A	C6-N1-C2	-8.02	113.79	118.60
85	5	2280	A	C2-N3-C4	-8.02	106.59	110.60
85	5	2908	G	C4-C5-C6	-8.02	113.99	118.80
37	7	68	C	O5'-P-OP1	8.02	120.32	110.70
38	8	82	U	C5-C4-O4	8.02	130.71	125.90
36	1	591	G	C8-N9-C4	-8.01	103.19	106.40
36	1	720	A	C2-N3-C4	8.01	114.61	110.60
36	1	927	C	C2-N3-C4	8.01	123.91	119.90
36	1	1009	A	N9-C4-C5	8.01	109.00	105.80
36	1	1428	A	C5-C6-N6	-8.01	117.29	123.70
36	1	1446	A	OP1-P-OP2	8.01	131.62	119.60
36	1	1469	C	N3-C2-O2	-8.01	116.29	121.90
36	1	1548	C	N3-C4-N4	8.01	123.61	118.00
85	5	2180	G	N1-C6-O6	8.01	124.71	119.90
36	1	1560	G	C5-C6-N1	8.01	115.51	111.50
36	1	1645	U	O5'-P-OP2	-8.01	98.49	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1700	G	C2-N3-C4	-8.01	107.89	111.90
38	4	17	A	C2-N3-C4	-8.01	106.59	110.60
60	N4	23	ARG	NE-CZ-NH2	-8.01	116.29	120.30
85	5	2243	A	C5-N7-C8	8.01	107.91	103.90
85	5	188	U	O5'-P-OP1	-8.01	98.49	105.70
85	5	1761	C	N1-C2-O2	8.01	123.71	118.90
85	5	1865	A	C4-C5-C6	8.01	121.01	117.00
1	2	1258	A	OP1-P-OP2	8.01	131.62	119.60
36	1	603	A	C2-N3-C4	-8.01	106.59	110.60
36	1	913	A	OP1-P-OP2	8.01	131.62	119.60
38	4	38	U	N3-C4-O4	8.01	125.01	119.40
80	6	142	G	C5-C6-O6	-8.01	123.79	128.60
85	5	522	A	OP1-P-OP2	-8.01	107.59	119.60
85	5	890	C	C5-C6-N1	8.01	125.00	121.00
85	5	1484	U	OP2-P-O3'	8.01	122.82	105.20
85	5	2152	A	C4-C5-N7	-8.01	106.69	110.70
85	5	2524	A	C8-N9-C4	-8.01	102.60	105.80
85	5	2584	G	N3-C4-C5	-8.01	124.60	128.60
85	5	3022	G	C2-N3-C4	8.01	115.91	111.90
36	1	1439	U	OP1-P-OP2	-8.01	107.59	119.60
36	1	1448	U	OP2-P-O3'	8.01	122.82	105.20
36	1	2364	G	N1-C2-N2	8.01	123.41	116.20
80	6	151	G	N3-C4-N9	-8.01	121.19	126.00
85	5	895	A	N1-C2-N3	8.01	133.30	129.30
1	2	186	C	N3-C2-O2	-8.01	116.30	121.90
1	2	1332	G	C5-C6-N1	-8.01	107.50	111.50
36	1	317	A	C5-N7-C8	-8.01	99.90	103.90
36	1	366	A	C5-N7-C8	8.01	107.90	103.90
36	1	749	C	N3-C4-C5	8.01	125.10	121.90
36	1	899	U	C2-N3-C4	-8.01	122.20	127.00
36	1	1120	A	C5-C6-N1	8.01	121.70	117.70
36	1	1948	G	N3-C4-C5	8.01	132.60	128.60
36	1	3231	U	N3-C2-O2	-8.01	116.59	122.20
37	3	49	G	C4-C5-C6	-8.01	114.00	118.80
80	6	755	A	N1-C6-N6	8.01	123.41	118.60
85	5	388	G	N9-C4-C5	-8.01	102.20	105.40
85	5	1447	G	N1-C6-O6	-8.01	115.09	119.90
85	5	1481	A	N7-C8-N9	8.01	117.80	113.80
85	5	1900	A	C2-N3-C4	8.01	114.60	110.60
85	5	2881	C	C4-C5-C6	8.01	121.40	117.40
85	5	3075	G	C2-N3-C4	-8.01	107.90	111.90
36	1	2193	U	N3-C4-O4	8.01	125.00	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3028	G	N3-C4-N9	8.01	130.80	126.00
36	1	3248	C	C5-C6-N1	8.01	125.00	121.00
80	6	709	C	N3-C2-O2	8.01	127.50	121.90
80	6	789	A	C4-C5-C6	8.01	121.00	117.00
80	6	1000	C	C5-C6-N1	-8.01	117.00	121.00
85	5	665	A	OP1-P-OP2	-8.01	107.59	119.60
85	5	1353	U	C5-C4-O4	8.01	130.70	125.90
85	5	2303	A	C5-C6-N1	-8.01	113.70	117.70
85	5	2312	A	N3-C4-C5	-8.01	121.20	126.80
85	5	3377	G	C8-N9-C4	-8.01	103.20	106.40
37	7	31	U	C4-C5-C6	-8.01	114.90	119.70
1	2	1276	U	O5'-P-OP2	-8.00	98.50	105.70
36	1	3314	A	N1-C6-N6	-8.00	113.80	118.60
80	6	1127	G	C5-C6-N1	-8.00	107.50	111.50
85	5	902	G	C8-N9-C4	8.00	109.60	106.40
1	2	1721	U	C6-N1-C2	-8.00	116.20	121.00
36	1	1120	A	C6-N1-C2	-8.00	113.80	118.60
36	1	1694	U	C2-N3-C4	-8.00	122.20	127.00
36	1	1751	G	N7-C8-N9	-8.00	109.10	113.10
36	1	1863	G	C5-C6-O6	8.00	133.40	128.60
36	1	2692	A	O5'-P-OP1	-8.00	98.50	105.70
49	M3	93	ILE	CG1-CB-CG2	-8.00	93.80	111.40
80	6	1131	A	N3-C4-C5	-8.00	121.20	126.80
85	5	28	C	N3-C4-C5	8.00	125.10	121.90
85	5	354	U	O5'-P-OP2	-8.00	98.50	105.70
85	5	668	G	C5-N7-C8	8.00	108.30	104.30
85	5	1143	A	C5-C6-N1	-8.00	113.70	117.70
85	5	1153	A	C5-N7-C8	8.00	107.90	103.90
85	5	1162	U	C5-C6-N1	8.00	126.70	122.70
85	5	1717	U	N3-C4-O4	8.00	125.00	119.40
1	2	1304	A	C6-N1-C2	-8.00	113.80	118.60
1	2	1481	G	C4-C5-N7	-8.00	107.60	110.80
1	2	1525	G	C8-N9-C4	-8.00	103.20	106.40
36	1	146	U	OP1-P-OP2	-8.00	107.60	119.60
36	1	742	G	C4-C5-N7	8.00	114.00	110.80
36	1	914	A	C4-C5-C6	8.00	121.00	117.00
37	3	42	A	C5-C6-N1	-8.00	113.70	117.70
80	6	297	U	C6-N1-C2	-8.00	116.20	121.00
80	6	466	U	C6-N1-C2	-8.00	116.20	121.00
85	5	890	C	N3-C4-C5	-8.00	118.70	121.90
85	5	1567	U	C5-C6-N1	8.00	126.70	122.70
85	5	2848	G	N3-C4-N9	-8.00	121.20	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2800	G	N1-C2-N3	8.00	128.70	123.90
36	1	2970	C	N3-C4-C5	8.00	125.10	121.90
37	3	91	G	C5-C6-O6	-8.00	123.80	128.60
80	6	896	U	N3-C2-O2	-8.00	116.60	122.20
80	6	1156	C	C6-N1-C2	-8.00	117.10	120.30
85	5	1009	A	C5-N7-C8	-8.00	99.90	103.90
85	5	1465	A	N1-C2-N3	8.00	133.30	129.30
85	5	2572	C	C2-N3-C4	8.00	123.90	119.90
85	5	2983	C	OP1-P-OP2	8.00	131.60	119.60
85	5	3232	G	N1-C6-O6	8.00	124.70	119.90
1	2	1185	A	C8-N9-C4	-8.00	102.60	105.80
36	1	538	G	C5-C6-N1	-8.00	107.50	111.50
36	1	1855	U	C5-C4-O4	8.00	130.70	125.90
36	1	2200	U	C5-C6-N1	-8.00	118.70	122.70
36	1	2291	A	N3-C4-C5	-8.00	121.20	126.80
36	1	2422	C	C2-N3-C4	8.00	123.90	119.90
36	1	2682	C	C6-N1-C2	8.00	123.50	120.30
36	1	3138	U	C5-C4-O4	-8.00	121.10	125.90
36	1	3177	G	O5'-P-OP2	-8.00	98.50	105.70
85	5	680	G	O5'-P-OP2	-8.00	98.50	105.70
85	5	870	G	C5-C6-O6	8.00	133.40	128.60
85	5	1928	G	N7-C8-N9	8.00	117.10	113.10
85	5	3127	A	C6-N1-C2	-8.00	113.80	118.60
80	6	206	A	N7-C8-N9	8.00	117.80	113.80
80	6	1638	G	C4-C5-N7	8.00	114.00	110.80
36	1	2807	U	C5-C4-O4	-7.99	121.10	125.90
80	6	523	G	N3-C4-N9	7.99	130.80	126.00
85	5	769	G	C5-C6-O6	-7.99	123.80	128.60
85	5	1202	A	N9-C4-C5	7.99	109.00	105.80
85	5	1582	C	O4'-C1'-N1	7.99	114.59	108.20
1	2	391	A	C4-C5-C6	-7.99	113.00	117.00
1	2	1593	G	C6-N1-C2	-7.99	120.31	125.10
36	1	644	G	N3-C4-N9	-7.99	121.20	126.00
36	1	934	G	C5-C6-O6	-7.99	123.81	128.60
36	1	1487	G	C5-C6-N1	7.99	115.50	111.50
36	1	3271	G	C4-C5-N7	-7.99	107.60	110.80
80	6	154	G	C2-N3-C4	7.99	115.90	111.90
80	6	777	C	C4-C5-C6	7.99	121.40	117.40
80	6	1112	G	N1-C2-N2	-7.99	109.01	116.20
80	6	1634	C	C2-N3-C4	7.99	123.90	119.90
85	5	343	U	C6-N1-C2	-7.99	116.20	121.00
85	5	968	G	N9-C4-C5	-7.99	102.20	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2685	C	OP2-P-O3'	7.99	122.78	105.20
1	2	962	A	N1-C6-N6	-7.99	113.81	118.60
1	2	1764	A	N9-C4-C5	7.99	109.00	105.80
36	1	510	G	C4-C5-C6	7.99	123.59	118.80
36	1	567	G	C8-N9-C4	-7.99	103.20	106.40
36	1	609	G	C6-N1-C2	-7.99	120.31	125.10
36	1	866	A	O5'-P-OP2	-7.99	98.51	105.70
36	1	971	G	OP2-P-O3'	7.99	122.78	105.20
38	4	58	G	C2-N3-C4	-7.99	107.91	111.90
80	6	1070	C	N1-C2-O2	-7.99	114.11	118.90
80	6	1743	U	N1-C2-N3	7.99	119.69	114.90
85	5	1628	C	N3-C2-O2	-7.99	116.31	121.90
85	5	1800	A	N1-C6-N6	-7.99	113.81	118.60
85	5	2315	G	C5-N7-C8	-7.99	100.30	104.30
37	7	21	G	N7-C8-N9	7.99	117.09	113.10
1	2	389	G	C5-C6-O6	7.99	133.39	128.60
1	2	981	A	C5-C6-N1	-7.99	113.71	117.70
36	1	57	A	C5-N7-C8	-7.99	99.91	103.90
36	1	500	C	O5'-P-OP1	-7.99	98.51	105.70
36	1	2914	G	C8-N9-C4	7.99	109.59	106.40
80	6	1617	U	N1-C2-O2	-7.99	117.21	122.80
85	5	1346	G	N7-C8-N9	7.99	117.09	113.10
85	5	1908	A	N3-C4-C5	-7.99	121.21	126.80
36	1	1196	C	O5'-P-OP2	7.99	120.28	110.70
80	6	426	G	C4-C5-N7	-7.99	107.61	110.80
85	5	916	G	N1-C2-N3	7.99	128.69	123.90
85	5	1404	G	C4-C5-C6	7.99	123.59	118.80
85	5	1788	C	N3-C4-N4	7.99	123.59	118.00
1	2	1065	C	C4-C5-C6	7.99	121.39	117.40
36	1	575	G	N9-C4-C5	7.99	108.59	105.40
36	1	638	C	N1-C2-O2	7.99	123.69	118.90
36	1	1826	C	OP1-P-OP2	-7.99	107.62	119.60
36	1	2613	U	O5'-P-OP1	-7.99	98.51	105.70
36	1	3259	U	OP1-P-OP2	7.99	131.58	119.60
80	6	995	A	O5'-P-OP1	-7.99	98.51	105.70
80	6	1028	C	N1-C2-O2	-7.99	114.11	118.90
80	6	1153	G	C2-N3-C4	-7.99	107.91	111.90
85	5	340	C	C5-C4-N4	-7.99	114.61	120.20
85	5	1381	A	C5-C6-N1	-7.99	113.71	117.70
85	5	1391	C	C2-N3-C4	-7.99	115.91	119.90
85	5	1598	G	C4-C5-C6	-7.99	114.01	118.80
85	5	1949	G	C2-N3-C4	7.99	115.89	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2856	G	OP1-P-OP2	7.99	131.58	119.60
85	5	3088	G	OP1-P-OP2	-7.99	107.62	119.60
38	8	77	A	N7-C8-N9	-7.99	109.81	113.80
36	1	2704	A	C4-C5-C6	7.98	120.99	117.00
80	6	651	G	N3-C4-C5	7.98	132.59	128.60
85	5	943	U	C6-N1-C2	-7.98	116.21	121.00
1	2	479	C	N3-C4-N4	-7.98	112.41	118.00
36	1	344	A	N1-C6-N6	-7.98	113.81	118.60
36	1	951	A	N1-C6-N6	7.98	123.39	118.60
80	6	1101	G	C5-C6-N1	-7.98	107.51	111.50
85	5	695	C	N3-C4-C5	-7.98	118.71	121.90
85	5	1546	A	C4-C5-N7	7.98	114.69	110.70
85	5	2964	G	C6-N1-C2	-7.98	120.31	125.10
36	1	395	A	OP1-P-OP2	7.98	131.57	119.60
36	1	2755	C	OP2-P-O3'	7.98	122.76	105.20
36	1	2853	A	C5-N7-C8	-7.98	99.91	103.90
36	1	3328	G	N7-C8-N9	7.98	117.09	113.10
41	L4	138	ARG	NE-CZ-NH1	-7.98	116.31	120.30
85	5	82	C	OP1-P-OP2	7.98	131.57	119.60
85	5	775	A	O5'-P-OP2	7.98	120.28	110.70
85	5	959	C	C5-C4-N4	7.98	125.79	120.20
85	5	2927	C	N3-C4-N4	7.98	123.59	118.00
85	5	2946	A	N1-C2-N3	7.98	133.29	129.30
85	5	3112	G	N7-C8-N9	7.98	117.09	113.10
37	7	88	G	C4-C5-N7	-7.98	107.61	110.80
36	1	2369	G	N9-C4-C5	7.98	108.59	105.40
36	1	2725	U	C4-C5-C6	7.98	124.49	119.70
85	5	1521	G	C5-C6-N1	7.98	115.49	111.50
36	1	354	U	C2-N1-C1'	7.98	127.27	117.70
36	1	365	A	N1-C6-N6	-7.98	113.81	118.60
36	1	2874	G	C6-C5-N7	-7.98	125.61	130.40
36	1	2911	A	C2-N3-C4	-7.98	106.61	110.60
80	6	402	C	N3-C2-O2	-7.98	116.32	121.90
80	6	1112	G	C5-C6-O6	7.98	133.39	128.60
80	6	1747	G	C5-C6-N1	7.98	115.49	111.50
85	5	1037	C	C2-N3-C4	-7.98	115.91	119.90
85	5	2234	G	C2-N3-C4	-7.98	107.91	111.90
85	5	2831	G	N1-C2-N3	7.98	128.69	123.90
85	5	2942	C	C2-N3-C4	7.98	123.89	119.90
85	5	3101	G	N7-C8-N9	-7.98	109.11	113.10
36	1	2896	A	N3-C4-C5	7.98	132.38	126.80
85	5	36	C	N1-C2-N3	7.98	124.78	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2576	G	N3-C4-C5	7.98	132.59	128.60
85	5	2638	C	N3-C4-N4	7.98	123.58	118.00
85	5	2796	G	C5-C6-N1	7.98	115.49	111.50
38	8	82	U	N1-C2-O2	-7.98	117.22	122.80
1	2	809	U	N3-C4-O4	7.97	124.98	119.40
1	2	1351	G	C5-C6-O6	-7.97	123.81	128.60
1	2	1771	G	C5-C6-O6	7.97	133.38	128.60
36	1	102	C	O5'-P-OP1	7.97	120.27	110.70
36	1	1169	A	C5-N7-C8	7.97	107.89	103.90
36	1	2428	U	N1-C2-O2	-7.97	117.22	122.80
36	1	2433	U	N1-C2-O2	7.97	128.38	122.80
36	1	2706	G	C5-N7-C8	-7.97	100.31	104.30
36	1	2758	A	O5'-P-OP1	-7.97	98.52	105.70
36	1	3037	U	N3-C4-C5	-7.97	109.81	114.60
38	4	79	A	C5-C6-N6	7.97	130.08	123.70
85	5	737	G	C5-C6-O6	7.97	133.38	128.60
85	5	1457	U	O5'-P-OP2	7.97	120.27	110.70
85	5	2607	G	O5'-P-OP2	-7.97	98.52	105.70
85	5	2985	C	C6-N1-C2	-7.97	117.11	120.30
38	8	142	C	N1-C2-O2	-7.97	114.11	118.90
36	1	319	A	C4-C5-N7	-7.97	106.71	110.70
36	1	963	G	O5'-P-OP1	7.97	120.27	110.70
80	6	136	C	C2-N3-C4	7.97	123.89	119.90
80	6	862	A	N1-C6-N6	7.97	123.38	118.60
85	5	152	U	OP1-P-OP2	-7.97	107.64	119.60
85	5	216	G	C8-N9-C4	7.97	109.59	106.40
85	5	631	U	N3-C4-C5	-7.97	109.82	114.60
85	5	945	C	O5'-P-OP1	-7.97	98.52	105.70
85	5	980	A	C2-N3-C4	7.97	114.59	110.60
85	5	1295	G	OP1-P-OP2	-7.97	107.64	119.60
85	5	2323	G	C8-N9-C4	-7.97	103.21	106.40
37	7	76	A	N3-C4-C5	7.97	132.38	126.80
36	1	964	G	N3-C2-N2	-7.97	114.32	119.90
36	1	2265	C	C6-N1-C2	-7.97	117.11	120.30
36	1	2391	G	O5'-P-OP1	7.97	120.27	110.70
85	5	1401	A	N1-C6-N6	7.97	123.38	118.60
85	5	1742	U	C2-N3-C4	7.97	131.78	127.00
1	2	47	A	C5-N7-C8	-7.97	99.92	103.90
1	2	1263	C	N1-C2-O2	-7.97	114.12	118.90
36	1	711	A	C6-C5-N7	7.97	137.88	132.30
36	1	1291	A	C5-N7-C8	-7.97	99.92	103.90
36	1	1683	A	C4-C5-N7	7.97	114.69	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2172	A	C5-N7-C8	-7.97	99.92	103.90
38	4	140	G	C4-C5-C6	7.97	123.58	118.80
80	6	763	G	C2-N3-C4	-7.97	107.92	111.90
85	5	131	C	N3-C2-O2	-7.97	116.32	121.90
85	5	1526	U	C4-C5-C6	7.97	124.48	119.70
38	8	88	A	N1-C2-N3	7.97	133.28	129.30
1	2	1169	U	OP1-P-OP2	7.97	131.55	119.60
36	1	1473	G	C5-C6-O6	-7.97	123.82	128.60
36	1	2824	G	N3-C2-N2	-7.97	114.32	119.90
38	4	2	A	N7-C8-N9	7.97	117.78	113.80
80	6	347	G	C6-N1-C2	7.97	129.88	125.10
80	6	530	C	C6-N1-C2	7.97	123.49	120.30
80	6	1299	G	N1-C6-O6	7.97	124.68	119.90
85	5	1661	G	N3-C4-N9	-7.97	121.22	126.00
85	5	2734	A	C5-C6-N1	-7.97	113.72	117.70
85	5	2889	C	OP1-P-OP2	-7.97	107.65	119.60
36	1	58	G	O5'-P-OP2	7.97	120.26	110.70
36	1	1904	C	N1-C2-N3	7.97	124.78	119.20
36	1	2388	U	OP1-P-OP2	-7.97	107.65	119.60
36	1	2710	C	C6-N1-C2	7.97	123.49	120.30
80	6	805	U	C6-N1-C2	-7.97	116.22	121.00
80	6	1317	C	C4-C5-C6	-7.97	113.42	117.40
85	5	39	A	N7-C8-N9	7.97	117.78	113.80
85	5	869	G	C5-C6-O6	7.97	133.38	128.60
85	5	1943	C	N3-C4-N4	7.97	123.58	118.00
85	5	3091	A	N9-C4-C5	7.97	108.99	105.80
85	5	3252	G	C2-N3-C4	-7.97	107.92	111.90
36	1	1311	G	C6-N1-C2	-7.96	120.32	125.10
36	1	1586	G	C6-C5-N7	-7.96	125.62	130.40
36	1	1905	G	O5'-P-OP2	-7.96	98.53	105.70
36	1	2730	G	N1-C2-N3	7.96	128.68	123.90
36	1	2787	G	C5-C6-O6	-7.96	123.82	128.60
36	1	3156	U	C6-N1-C2	7.96	125.78	121.00
80	6	364	G	N1-C2-N2	-7.96	109.03	116.20
85	5	230	U	C6-N1-C2	-7.96	116.22	121.00
85	5	708	G	C4-C5-C6	7.96	123.58	118.80
85	5	3307	A	O5'-P-OP2	-7.96	98.53	105.70
1	2	827	A	C4-C5-N7	7.96	114.68	110.70
36	1	1336	U	N1-C2-N3	7.96	119.68	114.90
36	1	2939	G	N1-C2-N2	-7.96	109.03	116.20
36	1	2954	U	C5-C4-O4	-7.96	121.12	125.90
85	5	3392	U	C5-C6-N1	-7.96	118.72	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	114	A	OP1-P-OP2	7.96	131.54	119.60
36	1	1624	G	OP1-P-OP2	7.96	131.54	119.60
80	6	475	A	N9-C4-C5	7.96	108.98	105.80
80	6	1749	A	N1-C2-N3	7.96	133.28	129.30
85	5	1251	A	N7-C8-N9	7.96	117.78	113.80
85	5	2099	A	N1-C2-N3	-7.96	125.32	129.30
85	5	2136	C	N3-C2-O2	-7.96	116.33	121.90
85	5	3140	G	N1-C6-O6	-7.96	115.12	119.90
80	6	1486	G	C5-C6-O6	-7.96	123.82	128.60
85	5	1829	G	C2-N3-C4	-7.96	107.92	111.90
85	5	3190	C	C2-N1-C1'	7.96	127.56	118.80
38	8	75	G	N9-C4-C5	7.96	108.58	105.40
36	1	232	G	N1-C2-N3	7.96	128.68	123.90
36	1	925	A	O5'-P-OP1	-7.96	98.54	105.70
36	1	1369	A	N1-C2-N3	7.96	133.28	129.30
36	1	2200	U	C2-N3-C4	-7.96	122.22	127.00
36	1	2877	G	C8-N9-C4	-7.96	103.22	106.40
1	2	1069	A	C8-N9-C4	-7.96	102.62	105.80
36	1	1783	U	C5-C4-O4	7.96	130.67	125.90
36	1	2117	A	C5-N7-C8	7.96	107.88	103.90
80	6	770	A	N7-C8-N9	-7.96	109.82	113.80
80	6	1328	G	N1-C6-O6	-7.96	115.13	119.90
85	5	388	G	N3-C4-C5	7.96	132.58	128.60
85	5	500	C	N3-C4-N4	-7.96	112.43	118.00
85	5	1035	G	C6-N1-C2	-7.96	120.33	125.10
85	5	1375	G	C5-C6-O6	7.96	133.37	128.60
85	5	2906	C	C6-N1-C2	7.96	123.48	120.30
85	5	3187	A	O4'-C1'-N9	-7.96	101.83	108.20
37	7	60	G	C2-N3-C4	7.96	115.88	111.90
37	7	82	G	N7-C8-N9	7.96	117.08	113.10
38	8	2	A	N7-C8-N9	7.96	117.78	113.80
38	8	95	G	C8-N9-C4	7.96	109.58	106.40
36	1	1482	A	N1-C6-N6	-7.96	113.83	118.60
85	5	1109	U	OP1-P-OP2	7.96	131.53	119.60
36	1	649	A	C5-C6-N1	7.95	121.68	117.70
36	1	1443	G	N1-C6-O6	7.95	124.67	119.90
36	1	1474	A	C2-N3-C4	-7.95	106.62	110.60
36	1	1879	A	N1-C2-N3	7.95	133.28	129.30
80	6	215	A	N7-C8-N9	7.95	117.78	113.80
85	5	916	G	C6-N1-C2	-7.95	120.33	125.10
85	5	1426	C	N3-C4-N4	7.95	123.57	118.00
85	5	1483	G	C8-N9-C4	-7.95	103.22	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1883	A	OP1-P-OP2	-7.95	107.67	119.60
38	8	15	G	C4-C5-N7	-7.95	107.62	110.80
36	1	1653	G	N1-C6-O6	7.95	124.67	119.90
36	1	2118	C	C5-C6-N1	-7.95	117.02	121.00
85	5	137	G	C5-C6-N1	-7.95	107.52	111.50
85	5	1100	U	O5'-P-OP2	-7.95	98.54	105.70
85	5	1373	A	C5-N7-C8	-7.95	99.92	103.90
36	1	339	C	N3-C4-N4	-7.95	112.44	118.00
36	1	555	U	N1-C2-N3	7.95	119.67	114.90
36	1	719	U	N3-C4-O4	7.95	124.97	119.40
36	1	892	U	O5'-P-OP2	-7.95	98.55	105.70
36	1	1905	G	C8-N9-C4	-7.95	103.22	106.40
36	1	2167	A	C5-C6-N1	-7.95	113.72	117.70
38	4	109	A	C5-N7-C8	-7.95	99.92	103.90
85	5	412	G	C4-C5-N7	-7.95	107.62	110.80
85	5	630	A	C4-C5-N7	-7.95	106.72	110.70
85	5	821	U	N1-C2-N3	7.95	119.67	114.90
85	5	1809	A	C4-C5-C6	7.95	120.97	117.00
85	5	2787	G	N1-C6-O6	7.95	124.67	119.90
38	8	42	G	N3-C4-C5	7.95	132.58	128.60
36	1	140	C	C4-C5-C6	-7.95	113.43	117.40
36	1	970	A	N9-C4-C5	7.95	108.98	105.80
36	1	1135	A	C8-N9-C4	-7.95	102.62	105.80
36	1	1678	G	C6-C5-N7	-7.95	125.63	130.40
37	3	13	A	N1-C6-N6	7.95	123.37	118.60
85	5	681	U	C4-C5-C6	7.95	124.47	119.70
85	5	2879	C	OP1-P-OP2	-7.95	107.68	119.60
85	5	3012	A	OP2-P-O3'	7.95	122.69	105.20
36	1	1366	A	N7-C8-N9	7.95	117.77	113.80
36	1	1639	C	N1-C2-O2	-7.95	114.13	118.90
36	1	2243	A	N1-C2-N3	7.95	133.27	129.30
85	5	1932	A	C2-N3-C4	-7.95	106.63	110.60
1	2	90	C	C4-C5-C6	7.95	121.37	117.40
1	2	445	A	N1-C2-N3	-7.95	125.33	129.30
36	1	2646	C	N1-C2-N3	7.95	124.76	119.20
38	4	31	G	N1-C6-O6	7.95	124.67	119.90
38	4	50	C	N1-C2-O2	-7.95	114.13	118.90
85	5	641	C	N3-C4-C5	-7.95	118.72	121.90
85	5	669	U	N3-C4-O4	-7.95	113.84	119.40
85	5	1246	G	C5-N7-C8	-7.95	100.33	104.30
85	5	1349	G	N9-C4-C5	-7.95	102.22	105.40
85	5	1657	C	C6-N1-C2	7.95	123.48	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1774	C	N3-C2-O2	-7.95	116.34	121.90
85	5	3195	U	N1-C2-O2	7.95	128.36	122.80
37	7	29	C	C5-C6-N1	-7.95	117.03	121.00
38	8	135	G	N1-C6-O6	-7.95	115.13	119.90
1	2	1121	A	N9-C4-C5	7.94	108.98	105.80
1	2	1409	C	C2-N3-C4	7.94	123.87	119.90
85	5	984	G	N1-C2-N3	7.94	128.67	123.90
36	1	1376	C	C6-N1-C2	-7.94	117.12	120.30
36	1	1696	A	N1-C2-N3	7.94	133.27	129.30
36	1	2332	A	O5'-P-OP1	-7.94	98.55	105.70
36	1	2697	A	C6-N1-C2	-7.94	113.83	118.60
36	1	3134	A	O5'-P-OP1	7.94	120.23	110.70
38	4	11	C	C4-C5-C6	-7.94	113.43	117.40
80	6	931	C	C5-C4-N4	-7.94	114.64	120.20
85	5	30	G	N9-C4-C5	-7.94	102.22	105.40
85	5	231	G	C8-N9-C4	-7.94	103.22	106.40
85	5	1447	G	C2-N3-C4	7.94	115.87	111.90
85	5	2173	U	N3-C2-O2	-7.94	116.64	122.20
85	5	2362	C	O5'-P-OP2	-7.94	98.55	105.70
85	5	2731	U	OP1-P-O3'	-7.94	87.73	105.20
1	2	16	G	N3-C4-N9	7.94	130.76	126.00
36	1	628	A	N1-C2-N3	7.94	133.27	129.30
36	1	986	U	C4-C5-C6	-7.94	114.94	119.70
36	1	989	A	C4-C5-C6	-7.94	113.03	117.00
36	1	1227	C	N3-C4-C5	7.94	125.08	121.90
36	1	1309	U	O5'-P-OP1	-7.94	98.55	105.70
36	1	1410	U	N3-C4-C5	7.94	119.36	114.60
36	1	3315	G	C5-C6-N1	-7.94	107.53	111.50
85	5	376	G	C5-N7-C8	-7.94	100.33	104.30
85	5	920	A	C5-C6-N1	7.94	121.67	117.70
85	5	1490	A	C5-N7-C8	-7.94	99.93	103.90
85	5	2154	U	OP1-P-OP2	7.94	131.51	119.60
85	5	2280	A	N9-C4-C5	7.94	108.98	105.80
85	5	3088	G	N3-C2-N2	-7.94	114.34	119.90
85	5	3302	U	C5-C6-N1	-7.94	118.73	122.70
36	1	1178	G	N1-C6-O6	-7.94	115.14	119.90
85	5	769	G	O5'-P-OP1	-7.94	98.56	105.70
85	5	1477	A	C8-N9-C4	-7.94	102.62	105.80
85	5	1496	C	C2-N1-C1'	7.94	127.53	118.80
85	5	1601	U	C6-N1-C2	-7.94	116.24	121.00
85	5	1924	U	N3-C4-C5	7.94	119.36	114.60
36	1	439	C	N1-C2-O2	7.94	123.66	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	925	A	C6-N1-C2	-7.94	113.84	118.60
36	1	946	U	C5-C6-N1	-7.94	118.73	122.70
36	1	1122	U	O5'-P-OP2	-7.94	98.56	105.70
36	1	2908	G	N1-C2-N2	-7.94	109.06	116.20
80	6	402	C	N3-C4-C5	7.94	125.08	121.90
80	6	638	U	C6-N1-C2	-7.94	116.24	121.00
80	6	757	A	C6-N1-C2	7.94	123.36	118.60
85	5	89	A	N1-C6-N6	7.94	123.36	118.60
85	5	816	A	C5-C6-N1	7.94	121.67	117.70
85	5	1442	U	OP1-P-O3'	7.94	122.66	105.20
85	5	2697	A	N1-C6-N6	-7.94	113.84	118.60
85	5	2759	U	N1-C2-O2	-7.94	117.24	122.80
36	1	1838	G	C5-C6-N1	7.94	115.47	111.50
36	1	2306	C	C4-C5-C6	-7.94	113.43	117.40
36	1	3249	C	C6-N1-C2	7.94	123.47	120.30
85	5	1840	U	OP1-P-OP2	7.94	131.50	119.60
85	5	1949	G	N1-C6-O6	7.94	124.66	119.90
85	5	2409	G	C5-C6-O6	7.94	133.36	128.60
36	1	881	C	O5'-P-OP1	-7.93	98.56	105.70
36	1	1860	G	N3-C2-N2	-7.93	114.35	119.90
36	1	2575	G	C5-C6-N1	-7.93	107.53	111.50
38	4	70	G	N3-C2-N2	7.93	125.45	119.90
80	6	800	U	C5-C6-N1	7.93	126.67	122.70
85	5	3384	U	N3-C4-C5	-7.93	109.84	114.60
36	1	159	A	N1-C2-N3	7.93	133.27	129.30
36	1	1769	G	N1-C6-O6	7.93	124.66	119.90
36	1	2781	U	C6-N1-C2	7.93	125.76	121.00
80	6	627	C	C6-N1-C2	-7.93	117.13	120.30
85	5	1183	C	N3-C4-C5	7.93	125.07	121.90
36	1	816	A	C2-N3-C4	7.93	114.56	110.60
36	1	2728	G	N1-C6-O6	-7.93	115.14	119.90
36	1	3021	A	C2-N3-C4	7.93	114.56	110.60
85	5	311	C	N3-C2-O2	-7.93	116.35	121.90
85	5	595	G	C5-C6-O6	7.93	133.36	128.60
85	5	759	U	N1-C2-O2	-7.93	117.25	122.80
85	5	872	U	C4-C5-C6	-7.93	114.94	119.70
36	1	48	A	C2-N3-C4	-7.93	106.64	110.60
36	1	673	U	C2-N3-C4	7.93	131.76	127.00
36	1	797	U	C5-C6-N1	-7.93	118.73	122.70
36	1	1350	A	O5'-P-OP2	7.93	120.22	110.70
36	1	1558	A	N1-C6-N6	-7.93	113.84	118.60
36	1	2729	U	N1-C2-N3	-7.93	110.14	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3143	C	N3-C4-N4	7.93	123.55	118.00
85	5	122	A	C5-C6-N6	7.93	130.04	123.70
85	5	1147	G	C4-C5-N7	-7.93	107.63	110.80
85	5	1539	A	OP1-P-O3'	7.93	122.64	105.20
85	5	1541	G	C2-N3-C4	7.93	115.86	111.90
85	5	1608	C	C2-N3-C4	7.93	123.86	119.90
85	5	1621	A	O5'-P-OP2	-7.93	98.56	105.70
85	5	1779	C	N3-C4-N4	-7.93	112.45	118.00
85	5	1793	C	C5-C6-N1	7.93	124.97	121.00
85	5	2112	U	N3-C4-C5	-7.93	109.84	114.60
1	2	1018	G	C5-C6-O6	7.93	133.36	128.60
36	1	984	G	C2-N3-C4	7.93	115.86	111.90
36	1	2174	G	C6-N1-C2	-7.93	120.34	125.10
56	N0	82	ASP	CB-CG-OD2	7.93	125.44	118.30
80	6	1164	G	N1-C6-O6	7.93	124.66	119.90
1	2	433	C	N3-C4-C5	-7.93	118.73	121.90
36	1	268	A	C8-N9-C4	-7.93	102.63	105.80
36	1	1318	A	N1-C6-N6	-7.93	113.84	118.60
36	1	1462	A	C8-N9-C4	-7.93	102.63	105.80
36	1	1593	A	N1-C6-N6	7.93	123.36	118.60
36	1	1808	G	N1-C6-O6	-7.93	115.14	119.90
36	1	1823	A	C5-C6-N1	-7.93	113.74	117.70
80	6	981	U	C4-C5-C6	7.93	124.46	119.70
85	5	1347	U	OP1-P-OP2	-7.93	107.71	119.60
85	5	1888	U	N1-C2-N3	7.93	119.66	114.90
85	5	2303	A	OP1-P-OP2	-7.93	107.71	119.60
85	5	2598	G	C6-C5-N7	-7.93	125.64	130.40
85	5	2751	G	C5-C6-O6	-7.93	123.84	128.60
85	5	2839	G	N1-C6-O6	7.93	124.66	119.90
85	5	3008	A	C5-C6-N6	7.93	130.04	123.70
37	7	93	C	C6-N1-C2	-7.93	117.13	120.30
36	1	606	C	N1-C2-O2	-7.92	114.14	118.90
36	1	622	A	C5-C6-N1	-7.92	113.74	117.70
36	1	1051	U	N3-C2-O2	7.92	127.75	122.20
36	1	1688	U	N3-C4-C5	-7.92	109.85	114.60
36	1	2847	A	C6-C5-N7	-7.92	126.75	132.30
80	6	462	G	C2-N3-C4	-7.92	107.94	111.90
80	6	465	G	C2-N3-C4	-7.92	107.94	111.90
80	6	478	A	N1-C6-N6	7.92	123.36	118.60
85	5	360	G	C4-C5-C6	7.92	123.55	118.80
85	5	416	A	C8-N9-C4	-7.92	102.63	105.80
85	5	421	G	N1-C2-N2	-7.92	109.07	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1393	A	N7-C8-N9	7.92	117.76	113.80
36	1	666	A	C5-C6-N1	7.92	121.66	117.70
36	1	2142	A	C4-C5-N7	-7.92	106.74	110.70
36	1	2297	U	C6-N1-C2	-7.92	116.25	121.00
36	1	2444	C	N1-C2-O2	7.92	123.65	118.90
36	1	2618	G	N9-C4-C5	7.92	108.57	105.40
1	2	347	G	N7-C8-N9	7.92	117.06	113.10
1	2	558	U	C5-C6-N1	7.92	126.66	122.70
36	1	380	U	C4-C5-C6	7.92	124.45	119.70
36	1	894	G	N1-C2-N2	-7.92	109.07	116.20
36	1	1162	U	C2-N3-C4	-7.92	122.25	127.00
36	1	1308	A	N3-C4-N9	-7.92	121.06	127.40
36	1	2207	A	O4'-C1'-N9	7.92	114.54	108.20
80	6	543	C	C6-N1-C2	-7.92	117.13	120.30
85	5	1350	A	OP1-P-OP2	7.92	131.48	119.60
85	5	1777	U	C6-N1-C2	-7.92	116.25	121.00
85	5	2104	A	N1-C2-N3	7.92	133.26	129.30
85	5	2116	G	C5-C6-O6	-7.92	123.85	128.60
85	5	2691	A	C8-N9-C4	-7.92	102.63	105.80
36	1	1612	A	N1-C6-N6	7.92	123.35	118.60
80	6	558	U	N1-C2-O2	7.92	128.34	122.80
85	5	903	U	N1-C2-N3	7.92	119.65	114.90
85	5	1492	G	N1-C6-O6	7.92	124.65	119.90
85	5	2177	G	C8-N9-C4	-7.92	103.23	106.40
85	5	3393	U	N1-C2-N3	7.92	119.65	114.90
38	8	70	G	C4-C5-C6	7.92	123.55	118.80
49	m3	101	ARG	NE-CZ-NH2	-7.92	116.34	120.30
1	2	845	A	N1-C6-N6	-7.92	113.85	118.60
36	1	209	A	C2-N3-C4	-7.92	106.64	110.60
36	1	345	G	N1-C2-N3	7.92	128.65	123.90
36	1	2937	G	C2-N3-C4	7.92	115.86	111.90
36	1	3188	G	N3-C4-N9	-7.92	121.25	126.00
85	5	1102	A	N7-C8-N9	7.92	117.76	113.80
85	5	2126	A	C2-N3-C4	-7.92	106.64	110.60
36	1	307	A	N3-C4-C5	-7.92	121.26	126.80
36	1	676	G	N9-C4-C5	7.92	108.57	105.40
36	1	2550	U	N1-C2-N3	7.92	119.65	114.90
36	1	2834	G	O5'-P-OP2	-7.92	98.58	105.70
36	1	2991	A	C6-N1-C2	7.92	123.35	118.60
38	4	52	A	C6-C5-N7	7.92	137.84	132.30
85	5	105	C	OP1-P-OP2	7.92	131.47	119.60
85	5	513	G	N1-C2-N3	7.92	128.65	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1152	G	N1-C2-N3	7.92	128.65	123.90
85	5	1204	A	OP2-P-O3'	7.92	122.61	105.20
1	2	836	G	C5-N7-C8	-7.92	100.34	104.30
1	2	981	A	C8-N9-C4	-7.92	102.63	105.80
36	1	884	A	C8-N9-C4	7.92	108.97	105.80
85	5	25	U	N1-C2-N3	7.92	119.65	114.90
85	5	911	C	N3-C4-N4	7.92	123.54	118.00
36	1	677	A	OP2-P-O3'	7.91	122.61	105.20
36	1	1309	U	C5-C6-N1	-7.91	118.74	122.70
36	1	1880	U	N3-C4-O4	7.91	124.94	119.40
36	1	2910	A	C8-N9-C4	7.91	108.97	105.80
36	1	3164	C	N3-C4-C5	7.91	125.06	121.90
80	6	1482	C	C6-N1-C2	7.91	123.47	120.30
85	5	60	A	C4-C5-C6	7.91	120.96	117.00
85	5	658	G	C5-C6-N1	-7.91	107.54	111.50
85	5	773	G	N3-C2-N2	-7.91	114.36	119.90
85	5	1111	U	C2-N3-C4	-7.91	122.25	127.00
85	5	1449	A	O5'-P-OP2	-7.91	98.58	105.70
85	5	1592	G	N3-C2-N2	-7.91	114.36	119.90
36	1	1441	G	N1-C2-N2	-7.91	109.08	116.20
80	6	801	G	C2-N3-C4	7.91	115.86	111.90
1	2	37	U	O5'-P-OP1	-7.91	98.58	105.70
1	2	299	A	N1-C2-N3	-7.91	125.34	129.30
1	2	388	G	N3-C2-N2	-7.91	114.36	119.90
1	2	441	A	N1-C6-N6	-7.91	113.85	118.60
1	2	1249	U	C6-N1-C2	-7.91	116.25	121.00
1	2	1331	A	C5-C6-N1	-7.91	113.75	117.70
36	1	1101	G	C5-N7-C8	7.91	108.25	104.30
36	1	1867	A	C2-N3-C4	-7.91	106.64	110.60
36	1	2308	C	N1-C2-O2	-7.91	114.15	118.90
36	1	2573	G	N1-C6-O6	-7.91	115.15	119.90
36	1	3136	G	OP1-P-OP2	-7.91	107.73	119.60
37	3	62	U	C5-C4-O4	-7.91	121.15	125.90
80	6	241	U	N3-C4-C5	-7.91	109.85	114.60
80	6	329	G	O5'-P-OP1	-7.91	98.58	105.70
80	6	1275	A	C8-N9-C4	7.91	108.96	105.80
85	5	197	G	N3-C4-N9	7.91	130.75	126.00
85	5	570	A	C6-N1-C2	-7.91	113.85	118.60
85	5	1167	U	C6-N1-C2	-7.91	116.25	121.00
85	5	3124	G	N1-C2-N3	7.91	128.65	123.90
1	2	1163	C	N3-C2-O2	-7.91	116.36	121.90
36	1	948	C	O5'-P-OP1	7.91	120.19	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3001	C	N3-C2-O2	7.91	127.44	121.90
80	6	996	U	C4-C5-C6	7.91	124.45	119.70
80	6	1300	A	C6-N1-C2	-7.91	113.86	118.60
80	6	1775	U	O5'-P-OP2	-7.91	98.58	105.70
85	5	2125	A	C5-N7-C8	-7.91	99.95	103.90
85	5	2157	G	C2-N3-C4	7.91	115.85	111.90
85	5	2750	U	N3-C4-O4	7.91	124.94	119.40
85	5	2812	C	C5-C6-N1	7.91	124.95	121.00
1	2	1109	G	C5-C6-O6	7.91	133.34	128.60
36	1	699	A	N1-C2-N3	7.91	133.25	129.30
36	1	920	A	C5-C6-N1	7.91	121.65	117.70
85	5	625	G	C4-C5-N7	-7.91	107.64	110.80
85	5	1757	A	N3-C4-C5	-7.91	121.27	126.80
85	5	2764	C	C5-C4-N4	-7.91	114.67	120.20
36	1	148	G	C5-N7-C8	7.91	108.25	104.30
36	1	367	A	C6-N1-C2	-7.91	113.86	118.60
36	1	2307	G	C5-C6-O6	7.91	133.34	128.60
36	1	2869	U	C5-C4-O4	-7.91	121.16	125.90
36	1	2960	C	C6-N1-C2	-7.91	117.14	120.30
36	1	2993	G	OP1-P-OP2	7.91	131.46	119.60
37	3	79	A	OP2-P-O3'	7.91	122.59	105.20
80	6	371	G	C6-C5-N7	-7.91	125.66	130.40
80	6	1704	U	C5-C6-N1	7.91	126.65	122.70
85	5	2286	U	N1-C2-N3	7.91	119.64	114.90
36	1	873	C	N1-C2-O2	-7.90	114.16	118.90
36	1	2730	G	C5-C6-N1	-7.90	107.55	111.50
85	5	3036	G	C2-N3-C4	-7.90	107.95	111.90
1	2	1203	C	C6-N1-C2	-7.90	117.14	120.30
1	2	1264	G	C5-C6-N1	-7.90	107.55	111.50
36	1	753	C	C4-C5-C6	-7.90	113.45	117.40
80	6	58	U	N1-C2-N3	7.90	119.64	114.90
80	6	1784	C	C2-N3-C4	-7.90	115.95	119.90
85	5	556	U	OP1-P-OP2	7.90	131.46	119.60
85	5	1206	G	C6-N1-C2	-7.90	120.36	125.10
85	5	2247	G	N3-C2-N2	-7.90	114.37	119.90
85	5	2951	G	C4-C5-N7	7.90	113.96	110.80
38	8	100	U	C5-C6-N1	7.90	126.65	122.70
36	1	143	G	N9-C4-C5	7.90	108.56	105.40
36	1	2132	C	N1-C2-O2	-7.90	114.16	118.90
36	1	2425	G	O5'-P-OP1	7.90	120.18	110.70
36	1	2738	A	N1-C2-N3	7.90	133.25	129.30
36	1	3096	C	C6-N1-C2	7.90	123.46	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1320	U	O5'-P-OP2	-7.90	98.59	105.70
80	6	1550	A	N7-C8-N9	7.90	117.75	113.80
80	6	1721	A	C8-N9-C4	-7.90	102.64	105.80
80	6	1795	U	N1-C2-O2	7.90	128.33	122.80
85	5	567	G	C5-C6-N1	-7.90	107.55	111.50
85	5	1423	C	OP1-P-OP2	7.90	131.45	119.60
85	5	1589	A	C5-C6-N6	-7.90	117.38	123.70
85	5	3222	U	C6-N1-C2	-7.90	116.26	121.00
36	1	1786	G	C5-C6-N1	7.90	115.45	111.50
36	1	3120	C	N3-C2-O2	7.90	127.43	121.90
38	4	51	G	C5-C6-O6	-7.90	123.86	128.60
80	6	1610	G	N1-C2-N2	-7.90	109.09	116.20
85	5	307	A	N1-C2-N3	7.90	133.25	129.30
36	1	2373	A	C8-N9-C4	-7.90	102.64	105.80
36	1	3106	A	N7-C8-N9	7.90	117.75	113.80
80	6	651	G	C8-N9-C4	7.90	109.56	106.40
80	6	781	U	N1-C2-N3	-7.90	110.16	114.90
85	5	634	C	C6-N1-C2	-7.90	117.14	120.30
85	5	685	G	C8-N9-C4	7.90	109.56	106.40
85	5	2705	A	C5-C6-N6	-7.90	117.38	123.70
85	5	2765	C	OP2-P-O3'	7.90	122.57	105.20
36	1	3129	A	C5-C6-N6	-7.90	117.38	123.70
36	1	3312	U	N3-C2-O2	7.90	127.73	122.20
37	3	48	U	N1-C2-O2	7.90	128.33	122.80
85	5	413	U	N3-C4-C5	-7.90	109.86	114.60
85	5	1558	A	N1-C6-N6	-7.90	113.86	118.60
85	5	3098	G	C5-C6-N1	7.90	115.45	111.50
85	5	3117	C	C6-N1-C2	7.90	123.46	120.30
36	1	317	A	N1-C6-N6	-7.89	113.86	118.60
36	1	570	A	C5-C6-N1	7.89	121.65	117.70
36	1	795	G	C5-C6-N1	-7.89	107.55	111.50
36	1	1515	A	C4-C5-C6	7.89	120.95	117.00
36	1	2175	U	OP2-P-O3'	7.89	122.57	105.20
85	5	319	A	C4-C5-C6	7.89	120.95	117.00
85	5	898	U	O5'-P-OP1	7.89	120.17	110.70
85	5	3182	G	N1-C2-N3	7.89	128.64	123.90
36	1	2302	G	C5-C6-N1	7.89	115.45	111.50
72	O6	70	ARG	NE-CZ-NH1	7.89	124.25	120.30
80	6	1209	C	C5-C6-N1	7.89	124.95	121.00
80	6	1751	C	C5-C6-N1	-7.89	117.05	121.00
85	5	89	A	C4-C5-N7	7.89	114.65	110.70
85	5	437	G	C6-C5-N7	7.89	135.13	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	667	C	OP1-P-OP2	-7.89	107.76	119.60
85	5	1167	U	C2-N3-C4	-7.89	122.26	127.00
85	5	2833	A	O5'-P-OP1	-7.89	98.60	105.70
85	5	3328	G	N3-C4-C5	-7.89	124.65	128.60
59	n3	88	ARG	NE-CZ-NH1	7.89	124.25	120.30
1	2	1719	G	C2-N3-C4	-7.89	107.95	111.90
36	1	98	G	C5-N7-C8	-7.89	100.36	104.30
37	3	34	C	N3-C2-O2	7.89	127.42	121.90
80	6	926	A	O5'-P-OP1	-7.89	98.60	105.70
85	5	2791	G	C5-C6-N1	7.89	115.45	111.50
38	8	94	C	C6-N1-C2	-7.89	117.14	120.30
1	2	940	G	N1-C6-O6	7.89	124.63	119.90
36	1	547	G	N1-C2-N3	-7.89	119.17	123.90
36	1	2407	C	N3-C4-N4	7.89	123.52	118.00
38	4	147	U	N3-C4-C5	-7.89	109.87	114.60
80	6	980	G	C5-C6-N1	7.89	115.44	111.50
80	6	1070	C	C5-C6-N1	7.89	124.94	121.00
85	5	182	U	O5'-P-OP1	7.89	120.17	110.70
85	5	282	G	N1-C2-N3	7.89	128.63	123.90
85	5	787	G	OP1-P-OP2	7.89	131.43	119.60
85	5	893	C	C4-C5-C6	7.89	121.34	117.40
37	7	49	G	C6-C5-N7	-7.89	125.67	130.40
36	1	26	A	OP1-P-OP2	-7.89	107.77	119.60
36	1	860	G	C5-C6-O6	-7.89	123.87	128.60
37	3	95	A	OP2-P-O3'	7.89	122.55	105.20
85	5	797	U	N1-C2-N3	7.89	119.63	114.90
85	5	3147	G	N1-C6-O6	7.89	124.63	119.90
85	5	3208	G	O5'-P-OP1	-7.89	98.60	105.70
36	1	228	U	N1-C2-O2	7.89	128.32	122.80
36	1	1930	A	N7-C8-N9	7.89	117.74	113.80
36	1	3170	A	N7-C8-N9	7.89	117.74	113.80
80	6	93	A	O5'-P-OP2	-7.89	98.60	105.70
80	6	453	U	C5-C6-N1	7.89	126.64	122.70
85	5	1176	C	C4-C5-C6	-7.89	113.46	117.40
85	5	1866	C	O5'-P-OP2	-7.89	98.60	105.70
85	5	2656	A	N3-C4-C5	7.89	132.32	126.80
85	5	3096	C	O5'-P-OP1	-7.89	98.60	105.70
85	5	3107	U	OP1-P-OP2	-7.89	107.77	119.60
85	5	3176	G	N1-C6-O6	-7.89	115.17	119.90
1	2	785	G	N7-C8-N9	7.88	117.04	113.10
1	2	1067	A	N1-C6-N6	7.88	123.33	118.60
36	1	180	C	N1-C2-N3	-7.88	113.68	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1132	C	N3-C2-O2	-7.88	116.38	121.90
36	1	2439	A	C5-C6-N1	-7.88	113.76	117.70
36	1	3378	C	C4-C5-C6	7.88	121.34	117.40
38	4	14	C	N3-C4-C5	7.88	125.05	121.90
80	6	97	C	N3-C4-C5	-7.88	118.75	121.90
85	5	91	G	C8-N9-C4	-7.88	103.25	106.40
85	5	119	U	N3-C4-O4	-7.88	113.88	119.40
85	5	679	U	N1-C2-O2	-7.88	117.28	122.80
85	5	1360	C	C6-N1-C2	7.88	123.45	120.30
85	5	1362	G	N3-C2-N2	7.88	125.42	119.90
85	5	1392	G	C6-N1-C2	-7.88	120.37	125.10
85	5	1718	G	N3-C4-C5	7.88	132.54	128.60
85	5	1920	U	O5'-P-OP1	-7.88	98.61	105.70
61	n5	57	LEU	CB-CG-CD2	-7.88	97.60	111.00
1	2	685	G	C6-C5-N7	-7.88	125.67	130.40
36	1	641	C	OP1-P-OP2	-7.88	107.78	119.60
36	1	2413	A	OP1-P-O3'	7.88	122.54	105.20
1	2	538	A	N1-C2-N3	-7.88	125.36	129.30
1	2	836	G	C6-C5-N7	-7.88	125.67	130.40
36	1	62	A	O5'-P-OP2	-7.88	98.61	105.70
36	1	1380	G	C8-N9-C4	7.88	109.55	106.40
36	1	1513	G	N3-C4-C5	-7.88	124.66	128.60
36	1	1583	A	OP1-P-OP2	-7.88	107.78	119.60
36	1	3365	U	C4-C5-C6	7.88	124.43	119.70
80	6	96	G	N7-C8-N9	7.88	117.04	113.10
85	5	49	A	C4-C5-N7	7.88	114.64	110.70
85	5	192	C	N3-C4-N4	7.88	123.52	118.00
85	5	840	C	N3-C4-N4	7.88	123.52	118.00
85	5	3019	U	C5-C6-N1	7.88	126.64	122.70
85	5	3044	G	N1-C6-O6	7.88	124.63	119.90
36	1	2238	G	C4-C5-N7	7.88	113.95	110.80
38	4	75	G	O5'-P-OP1	-7.88	98.61	105.70
85	5	3056	U	N1-C2-N3	7.88	119.63	114.90
1	2	199	G	C8-N9-C4	7.88	109.55	106.40
36	1	32	U	N1-C2-N3	7.88	119.63	114.90
36	1	387	A	N1-C2-N3	7.88	133.24	129.30
36	1	1610	G	N1-C2-N3	7.88	128.63	123.90
36	1	1742	U	N3-C4-O4	7.88	124.92	119.40
36	1	3300	U	C5-C4-O4	7.88	130.63	125.90
85	5	678	G	C4-C5-C6	7.88	123.53	118.80
85	5	963	G	N9-C4-C5	7.88	108.55	105.40
85	5	1042	U	OP2-P-O3'	7.88	122.53	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2222	A	C5-N7-C8	-7.88	99.96	103.90
36	1	2880	U	C4-C5-C6	7.88	124.43	119.70
85	5	889	U	O5'-P-OP1	7.88	120.15	110.70
85	5	2753	G	OP1-P-OP2	7.88	131.41	119.60
38	8	22	U	N3-C4-C5	7.88	119.33	114.60
38	8	66	A	N7-C8-N9	7.88	117.74	113.80
39	12	21	ARG	NE-CZ-NH1	-7.88	116.36	120.30
36	1	651	G	N7-C8-N9	-7.88	109.16	113.10
37	3	91	G	N9-C4-C5	7.88	108.55	105.40
80	6	437	A	N1-C2-N3	7.88	133.24	129.30
85	5	939	U	N3-C2-O2	7.88	127.71	122.20
85	5	955	U	N3-C4-C5	7.88	119.33	114.60
85	5	3258	U	C5-C4-O4	-7.88	121.17	125.90
36	1	1909	A	C5-C6-N6	7.87	130.00	123.70
36	1	2298	U	O4'-C1'-N1	7.87	114.50	108.20
80	6	388	G	N1-C2-N3	7.87	128.62	123.90
85	5	609	G	OP1-P-OP2	7.87	131.41	119.60
85	5	1184	A	O5'-P-OP2	-7.87	98.61	105.70
85	5	1429	G	C4-C5-N7	7.87	113.95	110.80
85	5	2242	A	C5-C6-N1	7.87	121.64	117.70
85	5	2863	G	OP2-P-O3'	-7.87	87.88	105.20
1	2	942	U	O5'-P-OP2	-7.87	98.62	105.70
1	2	1711	A	C8-N9-C4	7.87	108.95	105.80
36	1	720	A	N1-C6-N6	-7.87	113.88	118.60
36	1	1654	A	C4-C5-C6	7.87	120.94	117.00
36	1	2423	U	C5-C6-N1	-7.87	118.76	122.70
36	1	2881	C	OP2-P-O3'	7.87	122.52	105.20
36	1	3315	G	C8-N9-C4	7.87	109.55	106.40
38	4	64	U	C6-N1-C2	-7.87	116.28	121.00
80	6	211	U	N3-C4-O4	-7.87	113.89	119.40
80	6	872	G	C8-N9-C4	7.87	109.55	106.40
80	6	1630	U	O5'-P-OP2	-7.87	98.62	105.70
85	5	355	A	C4-C5-C6	7.87	120.94	117.00
85	5	612	U	OP2-P-O3'	7.87	122.52	105.20
85	5	1016	C	C4-C5-C6	-7.87	113.47	117.40
85	5	1186	G	O5'-P-OP1	7.87	120.15	110.70
85	5	1511	U	C5-C6-N1	-7.87	118.76	122.70
85	5	1846	C	C6-N1-C2	7.87	123.45	120.30
85	5	2618	G	O4'-C1'-N9	-7.87	101.90	108.20
85	5	2675	C	O5'-P-OP2	7.87	120.15	110.70
85	5	3019	U	N1-C2-N3	-7.87	110.18	114.90
36	1	1829	G	N1-C2-N3	7.87	128.62	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2968	G	C5-N7-C8	-7.87	100.36	104.30
80	6	1795	U	C5-C6-N1	-7.87	118.77	122.70
85	5	639	G	N3-C4-N9	-7.87	121.28	126.00
85	5	1813	A	C5-C6-N1	7.87	121.64	117.70
85	5	2153	U	O5'-P-OP1	-7.87	98.62	105.70
1	2	361	C	N3-C4-C5	-7.87	118.75	121.90
1	2	607	G	C5-N7-C8	-7.87	100.37	104.30
1	2	1337	G	C8-N9-C4	-7.87	103.25	106.40
1	2	1528	A	O5'-P-OP2	7.87	120.14	110.70
36	1	611	A	C8-N9-C4	-7.87	102.65	105.80
36	1	1730	G	N1-C6-O6	-7.87	115.18	119.90
36	1	2119	A	C5-N7-C8	-7.87	99.97	103.90
36	1	3119	U	N3-C2-O2	-7.87	116.69	122.20
40	L3	251	CYS	CA-CB-SG	-7.87	99.84	114.00
80	6	7	G	C6-C5-N7	-7.87	125.68	130.40
80	6	1109	G	N9-C4-C5	7.87	108.55	105.40
80	6	1353	U	N3-C4-O4	-7.87	113.89	119.40
80	6	1678	A	C5-N7-C8	-7.87	99.97	103.90
85	5	368	G	C5-C6-O6	7.87	133.32	128.60
85	5	576	C	C2-N3-C4	-7.87	115.97	119.90
85	5	878	G	N1-C2-N2	-7.87	109.12	116.20
85	5	907	G	C4-C5-N7	7.87	113.95	110.80
38	8	39	G	C4-C5-N7	-7.87	107.65	110.80
1	2	186	C	C6-N1-C2	-7.87	117.15	120.30
36	1	110	G	N3-C4-C5	7.87	132.53	128.60
36	1	800	G	C6-C5-N7	-7.87	125.68	130.40
36	1	1504	A	O5'-P-OP1	-7.87	98.62	105.70
36	1	2244	A	C6-N1-C2	-7.87	113.88	118.60
36	1	2852	C	C5-C6-N1	-7.87	117.07	121.00
85	5	63	A	N1-C6-N6	7.87	123.32	118.60
85	5	1884	A	C6-C5-N7	-7.87	126.79	132.30
85	5	3247	G	N7-C8-N9	-7.87	109.17	113.10
1	2	78	A	C5-C6-N1	7.87	121.63	117.70
1	2	849	G	C2-N3-C4	7.87	115.83	111.90
36	1	338	A	N7-C8-N9	7.87	117.73	113.80
36	1	879	U	C6-N1-C2	7.87	125.72	121.00
36	1	1474	A	C4-C5-C6	7.87	120.93	117.00
36	1	3013	U	N3-C4-C5	7.87	119.32	114.60
36	1	3229	G	N9-C4-C5	-7.87	102.25	105.40
37	3	120	C	N1-C2-N3	7.87	124.70	119.20
80	6	1104	U	C5-C4-O4	-7.87	121.18	125.90
85	5	1831	U	N3-C4-C5	-7.87	109.88	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2349	U	N3-C4-O4	7.87	124.91	119.40
38	8	51	G	C5-N7-C8	-7.87	100.37	104.30
1	2	1190	C	C2-N3-C4	-7.86	115.97	119.90
36	1	30	G	O5'-P-OP2	-7.86	98.62	105.70
36	1	1413	G	C5-C6-O6	-7.86	123.88	128.60
36	1	1703	U	N3-C4-O4	7.86	124.91	119.40
36	1	2855	U	N3-C4-C5	-7.86	109.88	114.60
36	1	3067	C	N3-C4-N4	-7.86	112.50	118.00
80	6	863	A	C5-C6-N6	-7.86	117.41	123.70
80	6	1677	C	N3-C2-O2	-7.86	116.39	121.90
85	5	404	G	OP1-P-OP2	7.86	131.40	119.60
85	5	700	C	O5'-P-OP2	-7.86	98.62	105.70
85	5	1156	C	N1-C2-N3	7.86	124.70	119.20
85	5	1164	G	OP1-P-OP2	7.86	131.40	119.60
85	5	1183	C	OP1-P-OP2	-7.86	107.81	119.60
85	5	1707	A	N1-C2-N3	7.86	133.23	129.30
1	2	427	C	C5-C6-N1	-7.86	117.07	121.00
1	2	568	G	N7-C8-N9	-7.86	109.17	113.10
1	2	1296	A	N9-C4-C5	-7.86	102.66	105.80
36	1	2744	U	N3-C4-C5	-7.86	109.88	114.60
85	5	1787	A	C6-N1-C2	7.86	123.32	118.60
36	1	710	A	C4-C5-N7	7.86	114.63	110.70
36	1	1103	A	N3-C4-C5	-7.86	121.30	126.80
36	1	1805	C	N3-C4-C5	7.86	125.04	121.90
36	1	2249	G	C6-N1-C2	-7.86	120.38	125.10
37	3	37	G	C8-N9-C4	-7.86	103.26	106.40
80	6	742	U	C2-N3-C4	7.86	131.72	127.00
80	6	1745	G	C4-C5-C6	7.86	123.52	118.80
85	5	511	G	O5'-P-OP1	-7.86	98.62	105.70
85	5	1285	G	C2-N3-C4	7.86	115.83	111.90
1	2	368	U	N3-C2-O2	-7.86	116.70	122.20
36	1	2900	A	C5-C6-N1	7.86	121.63	117.70
36	1	3256	G	C5-C6-N1	-7.86	107.57	111.50
80	6	1586	A	N7-C8-N9	-7.86	109.87	113.80
85	5	835	G	C5-C6-O6	-7.86	123.89	128.60
85	5	1867	A	C2-N3-C4	-7.86	106.67	110.60
85	5	2176	U	N3-C4-O4	7.86	124.90	119.40
37	7	71	G	N1-C6-O6	7.86	124.61	119.90
36	1	3332	U	N3-C4-C5	7.86	119.31	114.60
85	5	328	U	N1-C2-O2	7.86	128.30	122.80
85	5	352	A	N1-C2-N3	-7.86	125.37	129.30
85	5	1877	U	C5-C6-N1	-7.86	118.77	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3186	A	C2-N3-C4	-7.86	106.67	110.60
1	2	318	U	N3-C2-O2	7.86	127.70	122.20
36	1	201	A	N1-C6-N6	7.86	123.31	118.60
36	1	382	U	N1-C2-O2	-7.86	117.30	122.80
36	1	956	U	N3-C2-O2	7.86	127.70	122.20
36	1	2337	C	N3-C2-O2	7.86	127.40	121.90
36	1	2724	U	N3-C4-C5	-7.86	109.89	114.60
36	1	3032	A	N1-C2-N3	7.86	133.23	129.30
38	4	41	A	C5-N7-C8	7.86	107.83	103.90
41	L4	95	ARG	NE-CZ-NH2	7.86	124.23	120.30
85	5	535	G	N1-C2-N2	-7.86	109.13	116.20
36	1	1139	G	N1-C2-N2	7.85	123.27	116.20
36	1	2903	A	C5-N7-C8	7.85	107.83	103.90
37	3	96	U	N3-C4-C5	-7.85	109.89	114.60
80	6	252	U	N3-C2-O2	7.85	127.70	122.20
85	5	3078	U	C6-N1-C2	-7.85	116.29	121.00
36	1	891	G	N3-C4-C5	7.85	132.53	128.60
36	1	1368	U	O5'-P-OP1	-7.85	98.63	105.70
36	1	1521	G	C6-C5-N7	-7.85	125.69	130.40
36	1	1528	G	N3-C2-N2	7.85	125.40	119.90
36	1	1586	G	C4-C5-C6	7.85	123.51	118.80
36	1	2619	G	C4-C5-N7	7.85	113.94	110.80
36	1	3228	C	N3-C4-C5	7.85	125.04	121.90
36	1	3394	U	N3-C4-C5	7.85	119.31	114.60
85	5	441	U	C5-C6-N1	-7.85	118.77	122.70
85	5	884	A	O5'-P-OP2	-7.85	98.63	105.70
85	5	966	U	N1-C2-N3	7.85	119.61	114.90
85	5	1648	A	C5-C6-N1	-7.85	113.77	117.70
85	5	1876	U	O5'-P-OP2	-7.85	98.63	105.70
37	7	7	G	C4-C5-N7	-7.85	107.66	110.80
1	2	929	U	N3-C4-C5	-7.85	109.89	114.60
36	1	662	U	N3-C4-C5	7.85	119.31	114.60
36	1	2770	G	C8-N9-C4	-7.85	103.26	106.40
85	5	1378	U	O5'-P-OP1	7.85	120.12	110.70
85	5	1923	C	OP1-P-OP2	7.85	131.38	119.60
36	1	186	U	C5-C6-N1	7.85	126.62	122.70
36	1	506	U	N1-C2-O2	-7.85	117.31	122.80
36	1	2216	G	N3-C4-C5	-7.85	124.68	128.60
36	1	3176	G	OP1-P-OP2	-7.85	107.83	119.60
38	4	152	G	N3-C4-N9	-7.85	121.29	126.00
85	5	248	U	N1-C2-O2	7.85	128.29	122.80
85	5	998	A	C4-C5-C6	7.85	120.92	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1072	G	C5-C6-N1	-7.85	107.58	111.50
85	5	2303	A	N9-C4-C5	-7.85	102.66	105.80
85	5	2376	G	C5-C6-N1	-7.85	107.58	111.50
37	7	25	G	C5-C6-O6	7.85	133.31	128.60
37	7	102	A	N1-C2-N3	7.85	133.22	129.30
38	8	45	C	C4-C5-C6	7.85	121.33	117.40
36	1	2218	G	C5-C6-O6	7.85	133.31	128.60
36	1	2728	G	N3-C4-C5	-7.85	124.68	128.60
80	6	295	A	C5-N7-C8	7.85	107.82	103.90
80	6	540	G	C5-C6-O6	7.85	133.31	128.60
80	6	1093	A	C2-N3-C4	7.85	114.52	110.60
80	6	1102	G	C8-N9-C4	7.85	109.54	106.40
85	5	184	U	N3-C4-O4	-7.85	113.91	119.40
85	5	1140	G	OP2-P-O3'	7.85	122.46	105.20
85	5	1156	C	C5-C6-N1	7.85	124.92	121.00
85	5	1598	G	N3-C2-N2	7.85	125.39	119.90
85	5	1677	G	C6-C5-N7	7.85	135.11	130.40
85	5	1918	C	N3-C4-C5	-7.85	118.76	121.90
85	5	2240	G	O5'-P-OP1	-7.85	98.64	105.70
85	5	3149	G	C6-C5-N7	-7.85	125.69	130.40
38	8	89	A	C5-C6-N6	7.85	129.98	123.70
1	2	1574	C	N3-C4-C5	-7.85	118.76	121.90
36	1	318	A	C8-N9-C4	-7.85	102.66	105.80
36	1	2770	G	O5'-P-OP1	-7.85	98.64	105.70
36	1	3335	A	C6-N1-C2	-7.85	113.89	118.60
80	6	102	U	OP1-P-O3'	-7.85	87.94	105.20
80	6	1143	A	C2-N3-C4	7.85	114.52	110.60
85	5	2940	A	N1-C6-N6	-7.85	113.89	118.60
85	5	3158	G	N3-C2-N2	-7.85	114.41	119.90
36	1	154	U	C5-C4-O4	7.84	130.61	125.90
36	1	178	U	O5'-P-OP1	7.84	120.11	110.70
36	1	1375	G	C4-N9-C1'	7.84	136.70	126.50
36	1	1724	U	N3-C4-O4	7.84	124.89	119.40
36	1	1876	U	C2-N1-C1'	7.84	127.11	117.70
36	1	1894	U	OP1-P-OP2	-7.84	107.83	119.60
80	6	1728	A	N1-C2-N3	7.84	133.22	129.30
85	5	39	A	N3-C4-N9	-7.84	121.12	127.40
85	5	626	U	N3-C4-O4	7.84	124.89	119.40
1	2	740	A	C2-N3-C4	-7.84	106.68	110.60
1	2	988	A	C4-C5-N7	-7.84	106.78	110.70
36	1	1092	C	C5-C6-N1	7.84	124.92	121.00
36	1	1335	C	N1-C2-O2	7.84	123.61	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1929	G	O5'-P-OP1	7.84	120.11	110.70
37	3	62	U	N1-C2-O2	-7.84	117.31	122.80
85	5	636	C	O5'-P-OP1	7.84	120.11	110.70
85	5	649	A	N1-C6-N6	7.84	123.31	118.60
85	5	886	C	C4-C5-C6	7.84	121.32	117.40
85	5	1116	G	OP1-P-OP2	7.84	131.37	119.60
38	8	14	C	C6-N1-C2	7.84	123.44	120.30
38	8	14	C	N3-C4-C5	7.84	125.04	121.90
36	1	1536	G	N3-C2-N2	-7.84	114.41	119.90
36	1	1618	G	C5-C6-O6	7.84	133.31	128.60
36	1	2107	A	N9-C4-C5	7.84	108.94	105.80
37	3	82	G	C5-C6-O6	7.84	133.31	128.60
38	4	9	A	N7-C8-N9	-7.84	109.88	113.80
85	5	266	A	C8-N9-C4	-7.84	102.66	105.80
85	5	1246	G	C4-C5-N7	7.84	113.94	110.80
85	5	2902	A	O5'-P-OP1	-7.84	98.64	105.70
85	5	3365	U	N1-C2-O2	-7.84	117.31	122.80
1	2	1409	C	C5-C6-N1	7.84	124.92	121.00
1	2	1745	A	C8-N9-C4	7.84	108.94	105.80
36	1	392	G	C4-C5-N7	7.84	113.94	110.80
36	1	1174	G	C6-C5-N7	-7.84	125.70	130.40
36	1	1791	C	N3-C4-N4	7.84	123.49	118.00
36	1	2636	A	C6-N1-C2	-7.84	113.90	118.60
80	6	1590	G	C4-C5-N7	7.84	113.94	110.80
85	5	975	C	N3-C4-C5	-7.84	118.76	121.90
85	5	1534	A	C6-N1-C2	-7.84	113.90	118.60
85	5	1673	G	N1-C2-N3	7.84	128.60	123.90
85	5	1726	C	C5-C6-N1	-7.84	117.08	121.00
85	5	2418	G	N7-C8-N9	7.84	117.02	113.10
85	5	2730	G	C4-C5-N7	7.84	113.94	110.80
38	8	55	U	C2-N3-C4	7.84	131.70	127.00
36	1	878	G	N3-C4-N9	-7.84	121.30	126.00
36	1	906	A	N3-C4-C5	-7.84	121.31	126.80
36	1	2402	A	N1-C6-N6	7.84	123.30	118.60
38	4	74	U	O5'-P-OP2	7.84	120.11	110.70
85	5	500	C	C6-N1-C2	7.84	123.44	120.30
85	5	1205	A	OP1-P-O3'	-7.84	87.96	105.20
85	5	2096	A	N1-C6-N6	7.84	123.30	118.60
36	1	649	A	N1-C2-N3	7.84	133.22	129.30
36	1	2229	A	C8-N9-C4	7.84	108.94	105.80
36	1	3000	A	C5-C6-N1	-7.84	113.78	117.70
80	6	1362	U	N3-C2-O2	-7.84	116.71	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1679	A	C8-N9-C4	-7.84	102.67	105.80
85	5	1919	G	N1-C2-N3	7.84	128.60	123.90
85	5	2589	G	C8-N9-C4	-7.84	103.27	106.40
85	5	2675	C	OP1-P-OP2	-7.84	107.85	119.60
85	5	2793	G	C6-C5-N7	-7.84	125.70	130.40
36	1	2182	A	C4-C5-N7	-7.83	106.78	110.70
36	1	2793	G	O5'-P-OP2	7.83	120.10	110.70
36	1	3287	U	N1-C2-N3	-7.83	110.20	114.90
85	5	295	A	N1-C2-N3	7.83	133.22	129.30
85	5	649	A	C6-N1-C2	-7.83	113.90	118.60
85	5	2555	G	O5'-P-OP2	-7.83	98.65	105.70
85	5	2864	A	N7-C8-N9	7.83	117.72	113.80
1	2	1223	U	N1-C2-N3	7.83	119.60	114.90
36	1	232	G	C4-C5-N7	-7.83	107.67	110.80
36	1	1401	A	N7-C8-N9	-7.83	109.88	113.80
36	1	1520	G	N3-C4-C5	-7.83	124.68	128.60
36	1	1672	U	N3-C2-O2	7.83	127.68	122.20
36	1	2879	C	O5'-P-OP2	-7.83	98.65	105.70
80	6	576	G	N7-C8-N9	7.83	117.02	113.10
85	5	1325	U	C5-C6-N1	-7.83	118.78	122.70
85	5	1446	A	N7-C8-N9	-7.83	109.88	113.80
36	1	692	A	C8-N9-C4	-7.83	102.67	105.80
36	1	1349	G	C5-N7-C8	7.83	108.22	104.30
36	1	2254	U	N3-C4-C5	-7.83	109.90	114.60
36	1	3105	U	N3-C2-O2	-7.83	116.72	122.20
36	1	3393	U	N3-C4-O4	7.83	124.88	119.40
80	6	551	G	C2-N3-C4	-7.83	107.98	111.90
80	6	996	U	O5'-P-OP1	-7.83	98.65	105.70
80	6	1731	A	C8-N9-C4	-7.83	102.67	105.80
85	5	180	C	N3-C2-O2	-7.83	116.42	121.90
85	5	1007	U	C4-C5-C6	7.83	124.40	119.70
85	5	1301	A	C4-C5-C6	7.83	120.92	117.00
85	5	1332	A	OP1-P-O3'	7.83	122.43	105.20
85	5	2368	A	C5-N7-C8	-7.83	99.98	103.90
36	1	131	C	N3-C4-N4	-7.83	112.52	118.00
36	1	229	G	N7-C8-N9	7.83	117.02	113.10
36	1	336	A	C5-C6-N6	-7.83	117.44	123.70
36	1	893	C	C5-C4-N4	-7.83	114.72	120.20
36	1	1649	U	N3-C4-O4	7.83	124.88	119.40
80	6	833	U	C5-C4-O4	7.83	130.60	125.90
85	5	584	G	OP2-P-O3'	7.83	122.43	105.20
85	5	859	G	O5'-P-OP2	-7.83	98.65	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2371	G	N3-C4-C5	7.83	132.51	128.60
1	2	1732	A	N1-C2-N3	7.83	133.22	129.30
36	1	236	G	C2-N3-C4	7.83	115.81	111.90
36	1	1457	U	N3-C2-O2	7.83	127.68	122.20
36	1	2107	A	C5-C6-N6	7.83	129.96	123.70
80	6	1070	C	O4'-C1'-N1	7.83	114.46	108.20
85	5	293	C	N3-C4-C5	7.83	125.03	121.90
85	5	919	U	OP1-P-OP2	-7.83	107.86	119.60
85	5	1103	A	N3-C4-C5	-7.83	121.32	126.80
85	5	1206	G	N1-C2-N3	7.83	128.60	123.90
85	5	2669	G	N1-C6-O6	7.83	124.60	119.90
1	2	831	C	N3-C2-O2	-7.83	116.42	121.90
36	1	787	G	O5'-P-OP2	-7.83	98.66	105.70
36	1	972	A	N1-C2-N3	7.83	133.21	129.30
80	6	678	A	C2-N3-C4	7.83	114.51	110.60
85	5	963	G	C6-C5-N7	7.83	135.10	130.40
85	5	1495	U	OP2-P-O3'	-7.83	87.98	105.20
36	1	285	A	N1-C6-N6	-7.83	113.91	118.60
36	1	300	G	C5-C6-O6	7.83	133.29	128.60
36	1	315	C	OP1-P-OP2	7.83	131.34	119.60
36	1	743	C	C5-C6-N1	-7.83	117.09	121.00
36	1	2141	U	N3-C2-O2	-7.83	116.72	122.20
36	1	2192	C	C4-C5-C6	7.83	121.31	117.40
36	1	2785	A	N1-C2-N3	7.83	133.21	129.30
38	4	16	G	N3-C2-N2	-7.83	114.42	119.90
38	4	107	G	N1-C2-N3	7.83	128.59	123.90
70	O4	31	ARG	NE-CZ-NH1	7.83	124.21	120.30
80	6	619	A	C2-N3-C4	7.83	114.51	110.60
80	6	810	G	N1-C6-O6	7.83	124.60	119.90
85	5	422	A	O5'-P-OP1	-7.83	98.66	105.70
85	5	879	U	C6-N1-C2	7.83	125.69	121.00
85	5	1376	C	N1-C2-O2	7.83	123.60	118.90
85	5	2865	U	C2-N3-C4	7.83	131.69	127.00
85	5	3052	G	C6-N1-C2	-7.83	120.40	125.10
1	2	307	G	N1-C6-O6	-7.82	115.21	119.90
36	1	275	U	N3-C2-O2	7.82	127.68	122.20
36	1	350	C	C6-N1-C1'	-7.82	111.41	120.80
36	1	1046	A	C5-C6-N1	7.82	121.61	117.70
36	1	1346	G	C4-C5-N7	-7.82	107.67	110.80
36	1	2710	C	N3-C4-C5	7.82	125.03	121.90
36	1	2884	C	C5-C6-N1	7.82	124.91	121.00
80	6	215	A	C8-N9-C4	-7.82	102.67	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	760	G	C8-N9-C4	-7.82	103.27	106.40
85	5	994	G	C6-N1-C2	-7.82	120.41	125.10
85	5	1181	U	C5-C4-O4	7.82	130.59	125.90
85	5	2391	G	C5-N7-C8	7.82	108.21	104.30
85	5	1121	U	C2-N3-C4	-7.82	122.31	127.00
85	5	1172	G	N3-C4-N9	7.82	130.69	126.00
85	5	3299	A	C5-N7-C8	7.82	107.81	103.90
36	1	56	G	N3-C2-N2	-7.82	114.43	119.90
36	1	773	G	N9-C4-C5	7.82	108.53	105.40
36	1	999	G	N3-C4-N9	7.82	130.69	126.00
37	3	2	G	N3-C2-N2	-7.82	114.42	119.90
80	6	349	U	N1-C2-N3	7.82	119.59	114.90
80	6	522	U	C2-N3-C4	-7.82	122.31	127.00
80	6	972	G	OP1-P-OP2	7.82	131.33	119.60
85	5	722	G	C6-C5-N7	-7.82	125.71	130.40
85	5	984	G	C5-C6-N1	-7.82	107.59	111.50
85	5	2728	G	N1-C2-N3	7.82	128.59	123.90
85	5	2921	U	OP1-P-O3'	7.82	122.41	105.20
37	7	20	A	C8-N9-C4	7.82	108.93	105.80
37	7	49	G	C5-C6-O6	-7.82	123.91	128.60
38	8	87	G	C8-N9-C4	7.82	109.53	106.40
38	8	115	C	C5-C4-N4	-7.82	114.73	120.20
1	2	921	G	C5-N7-C8	-7.82	100.39	104.30
36	1	921	A	C6-C5-N7	7.82	137.77	132.30
36	1	2174	G	C6-C5-N7	-7.82	125.71	130.40
36	1	3366	G	OP1-P-O3'	7.82	122.40	105.20
80	6	426	G	C5-C6-N1	-7.82	107.59	111.50
80	6	1096	C	O5'-P-OP1	7.82	120.08	110.70
85	5	962	A	N1-C2-N3	7.82	133.21	129.30
85	5	2150	G	C6-C5-N7	-7.82	125.71	130.40
1	2	358	U	N1-C2-N3	7.82	119.59	114.90
1	2	1299	G	N9-C4-C5	7.82	108.53	105.40
36	1	1226	G	N1-C6-O6	7.82	124.59	119.90
36	1	1497	C	C4-C5-C6	7.82	121.31	117.40
36	1	3143	C	N3-C2-O2	7.82	127.37	121.90
80	6	136	C	C5-C6-N1	7.82	124.91	121.00
85	5	83	U	N3-C2-O2	-7.82	116.73	122.20
85	5	423	A	C4-C5-N7	7.82	114.61	110.70
85	5	548	G	C8-N9-C4	-7.82	103.27	106.40
85	5	889	U	O5'-P-OP2	-7.82	98.66	105.70
85	5	1295	G	N1-C2-N2	-7.82	109.16	116.20
85	5	1770	G	N1-C6-O6	-7.82	115.21	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1914	G	N3-C2-N2	-7.82	114.43	119.90
85	5	2324	A	C6-C5-N7	-7.82	126.83	132.30
85	5	2915	U	C6-N1-C2	7.82	125.69	121.00
85	5	3271	G	N1-C2-N2	-7.82	109.16	116.20
53	m7	131	ARG	NE-CZ-NH1	7.82	124.21	120.30
1	2	854	G	C8-N9-C4	-7.82	103.27	106.40
36	1	406	G	N1-C6-O6	-7.82	115.21	119.90
36	1	802	C	N3-C2-O2	-7.82	116.43	121.90
36	1	1100	U	C2-N3-C4	-7.82	122.31	127.00
36	1	2142	A	C2-N3-C4	7.82	114.51	110.60
36	1	3388	C	C5-C6-N1	-7.82	117.09	121.00
85	5	423	A	N9-C4-C5	-7.82	102.67	105.80
85	5	607	A	C4-C5-C6	7.82	120.91	117.00
85	5	643	U	C5-C6-N1	7.82	126.61	122.70
85	5	1434	G	C6-N1-C2	-7.82	120.41	125.10
85	5	1628	C	C5-C6-N1	7.82	124.91	121.00
62	n6	31	LEU	CB-CG-CD1	-7.82	97.71	111.00
36	1	3012	A	O5'-P-OP1	-7.81	98.67	105.70
1	2	150	U	N3-C4-C5	7.81	119.29	114.60
36	1	360	G	N1-C2-N3	7.81	128.59	123.90
36	1	606	C	C2-N3-C4	-7.81	115.99	119.90
36	1	2959	C	OP2-P-O3'	7.81	122.39	105.20
36	1	3129	A	N1-C2-N3	7.81	133.21	129.30
80	6	549	G	N3-C2-N2	-7.81	114.43	119.90
85	5	1063	G	C4-C5-N7	7.81	113.92	110.80
85	5	1178	G	N7-C8-N9	7.81	117.01	113.10
85	5	2130	G	N3-C4-C5	7.81	132.51	128.60
85	5	2363	A	N1-C2-N3	7.81	133.21	129.30
1	2	1434	C	C6-N1-C2	-7.81	117.18	120.30
36	1	1650	G	N1-C6-O6	-7.81	115.21	119.90
36	1	1897	G	N3-C4-C5	-7.81	124.69	128.60
36	1	2128	C	N1-C2-N3	7.81	124.67	119.20
36	1	2836	C	C5-C6-N1	-7.81	117.09	121.00
80	6	565	C	C6-N1-C1'	7.81	130.17	120.80
85	5	1072	G	N1-C6-O6	7.81	124.59	119.90
85	5	2305	G	O5'-P-OP2	7.81	120.07	110.70
38	8	142	C	N1-C2-N3	7.81	124.67	119.20
46	19	62	ARG	NE-CZ-NH2	-7.81	116.39	120.30
1	2	1029	G	C8-N9-C4	7.81	109.52	106.40
1	2	1338	C	N1-C2-O2	7.81	123.58	118.90
36	1	269	G	C4-C5-N7	7.81	113.92	110.80
36	1	2152	A	C5-N7-C8	-7.81	100.00	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	3	88	G	N3-C4-C5	-7.81	124.70	128.60
85	5	124	U	N1-C2-O2	7.81	128.27	122.80
85	5	2680	A	C8-N9-C4	-7.81	102.68	105.80
85	5	2731	U	N1-C2-O2	-7.81	117.33	122.80
36	1	1097	G	C8-N9-C4	-7.81	103.28	106.40
36	1	1349	G	N3-C4-C5	-7.81	124.70	128.60
36	1	1484	U	N1-C2-O2	-7.81	117.33	122.80
36	1	1519	G	O5'-P-OP1	7.81	120.07	110.70
36	1	3270	U	N1-C2-O2	7.81	128.26	122.80
80	6	445	A	C4-C5-C6	-7.81	113.10	117.00
85	5	567	G	N3-C4-C5	7.81	132.50	128.60
85	5	591	G	C2-N3-C4	-7.81	108.00	111.90
85	5	2951	G	C6-N1-C2	-7.81	120.42	125.10
85	5	3120	C	O5'-P-OP2	-7.81	98.67	105.70
40	13	322	ILE	CG1-CB-CG2	-7.81	94.22	111.40
1	2	72	A	N1-C2-N3	-7.81	125.40	129.30
36	1	2984	C	C6-N1-C2	-7.81	117.18	120.30
1	2	449	C	N3-C2-O2	-7.80	116.44	121.90
36	1	963	G	C5-C6-N1	-7.80	107.60	111.50
36	1	1344	G	O5'-P-OP1	7.80	120.07	110.70
80	6	462	G	C5-C6-N1	-7.80	107.60	111.50
80	6	476	U	N1-C2-O2	-7.80	117.34	122.80
85	5	8	C	C4-C5-C6	7.80	121.30	117.40
85	5	656	A	C2-N3-C4	-7.80	106.70	110.60
85	5	1127	G	C5-C6-O6	7.80	133.28	128.60
85	5	2314	U	C5-C4-O4	-7.80	121.22	125.90
36	1	645	A	C6-C5-N7	7.80	137.76	132.30
36	1	1423	C	N1-C2-O2	-7.80	114.22	118.90
36	1	1612	A	N9-C4-C5	7.80	108.92	105.80
80	6	429	G	C6-C5-N7	-7.80	125.72	130.40
85	5	57	A	N7-C8-N9	-7.80	109.90	113.80
85	5	849	C	C2-N3-C4	-7.80	116.00	119.90
85	5	863	C	C6-N1-C2	7.80	123.42	120.30
85	5	1461	A	N1-C2-N3	7.80	133.20	129.30
85	5	2654	C	OP2-P-O3'	7.80	122.37	105.20
36	1	1379	G	C2-N3-C4	-7.80	108.00	111.90
36	1	1404	G	N1-C2-N2	-7.80	109.18	116.20
36	1	1498	A	N7-C8-N9	-7.80	109.90	113.80
36	1	2233	A	C5-C6-N1	-7.80	113.80	117.70
80	6	215	A	C5-N7-C8	-7.80	100.00	103.90
85	5	824	C	C6-N1-C2	-7.80	117.18	120.30
85	5	853	G	C6-C5-N7	-7.80	125.72	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1128	U	C2-N3-C4	-7.80	122.32	127.00
85	5	2622	C	C4-C5-C6	7.80	121.30	117.40
85	5	2936	A	N9-C4-C5	7.80	108.92	105.80
85	5	3126	C	N3-C2-O2	-7.80	116.44	121.90
37	7	44	C	OP2-P-O3'	7.80	122.36	105.20
36	1	1097	G	C4-C5-N7	7.80	113.92	110.80
36	1	1593	A	C5-C6-N1	-7.80	113.80	117.70
36	1	3355	U	N3-C4-C5	-7.80	109.92	114.60
80	6	1025	A	C2-N3-C4	-7.80	106.70	110.60
80	6	1662	G	O5'-P-OP1	7.80	120.06	110.70
25	d3	100	ASP	CB-CG-OD1	7.80	125.32	118.30
85	5	185	C	C5-C6-N1	-7.80	117.10	121.00
85	5	806	A	C6-C5-N7	-7.80	126.84	132.30
85	5	824	C	O5'-P-OP2	-7.80	98.68	105.70
85	5	2125	A	N1-C6-N6	7.80	123.28	118.60
85	5	2341	A	C8-N9-C4	7.80	108.92	105.80
85	5	2984	C	C5-C4-N4	7.80	125.66	120.20
85	5	3044	G	C2-N3-C4	-7.80	108.00	111.90
85	5	3146	G	N1-C2-N3	7.80	128.58	123.90
1	2	102	U	C6-N1-C2	-7.80	116.32	121.00
1	2	1265	U	N3-C4-O4	-7.80	113.94	119.40
36	1	707	U	N1-C2-O2	-7.80	117.34	122.80
36	1	2442	G	N1-C6-O6	7.80	124.58	119.90
80	6	1004	U	N3-C4-C5	-7.80	109.92	114.60
85	5	940	G	C5-C6-N1	7.80	115.40	111.50
85	5	2164	A	C4-C5-C6	7.80	120.90	117.00
1	2	1065	C	N1-C2-O2	7.80	123.58	118.90
36	1	287	G	N1-C6-O6	7.80	124.58	119.90
36	1	680	G	N1-C2-N2	-7.80	109.18	116.20
36	1	703	G	C5-C6-N1	7.80	115.40	111.50
36	1	771	A	N7-C8-N9	7.80	117.70	113.80
36	1	1121	U	O5'-P-OP1	7.80	120.06	110.70
36	1	2228	A	C5-C6-N6	-7.80	117.46	123.70
36	1	2515	A	N9-C4-C5	7.80	108.92	105.80
36	1	2828	G	N3-C4-N9	7.80	130.68	126.00
36	1	2980	U	C5-C4-O4	-7.80	121.22	125.90
36	1	3134	A	C5-C6-N6	-7.80	117.46	123.70
36	1	3367	C	N3-C4-N4	-7.80	112.54	118.00
37	3	100	C	O5'-P-OP2	-7.80	98.68	105.70
80	6	46	A	N7-C8-N9	7.80	117.70	113.80
85	5	289	A	N1-C6-N6	-7.80	113.92	118.60
85	5	658	G	N1-C6-O6	7.80	124.58	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	963	G	N1-C2-N3	7.80	128.58	123.90
85	5	1588	A	O5'-P-OP1	-7.80	98.68	105.70
85	5	2169	G	N3-C4-C5	-7.80	124.70	128.60
85	5	2369	G	N1-C2-N2	-7.80	109.18	116.20
85	5	2703	A	C5-C6-N6	-7.80	117.46	123.70
85	5	3022	G	C5-C6-O6	7.80	133.28	128.60
36	1	2384	A	OP1-P-OP2	7.79	131.29	119.60
36	1	2761	G	C2-N3-C4	-7.79	108.00	111.90
37	3	92	A	N7-C8-N9	-7.79	109.90	113.80
80	6	28	A	N7-C8-N9	7.79	117.70	113.80
80	6	651	G	N1-C6-O6	7.79	124.58	119.90
85	5	2199	G	C4-C5-C6	7.79	123.48	118.80
36	1	217	U	C6-N1-C2	-7.79	116.32	121.00
36	1	748	U	C5-C4-O4	-7.79	121.22	125.90
36	1	1140	G	C4-C5-N7	-7.79	107.68	110.80
36	1	1440	G	C8-N9-C4	7.79	109.52	106.40
36	1	2315	G	C8-N9-C4	-7.79	103.28	106.40
36	1	2430	A	C8-N9-C4	-7.79	102.68	105.80
36	1	3278	C	C6-N1-C2	-7.79	117.18	120.30
80	6	727	U	C5-C4-O4	7.79	130.58	125.90
80	6	1118	G	C4-C5-C6	7.79	123.48	118.80
85	5	195	U	C2-N3-C4	-7.79	122.32	127.00
85	5	666	A	N1-C2-N3	7.79	133.20	129.30
85	5	765	C	C5-C6-N1	-7.79	117.10	121.00
85	5	842	G	N1-C2-N3	7.79	128.58	123.90
85	5	889	U	C5-C6-N1	-7.79	118.80	122.70
85	5	1368	U	N3-C4-O4	7.79	124.86	119.40
85	5	1439	U	N1-C2-N3	-7.79	110.22	114.90
85	5	1495	U	N1-C2-O2	-7.79	117.34	122.80
85	5	1508	C	C2-N3-C4	-7.79	116.00	119.90
85	5	2946	A	C8-N9-C4	-7.79	102.68	105.80
85	5	3047	U	O5'-P-OP1	-7.79	98.69	105.70
36	1	2926	A	N1-C6-N6	7.79	123.28	118.60
36	1	3119	U	N1-C2-O2	7.79	128.25	122.80
36	1	3376	A	C8-N9-C4	-7.79	102.68	105.80
38	4	17	A	OP1-P-O3'	7.79	122.34	105.20
80	6	783	G	N7-C8-N9	-7.79	109.20	113.10
85	5	1167	U	N1-C2-O2	-7.79	117.35	122.80
85	5	1185	C	C2-N3-C4	-7.79	116.00	119.90
85	5	1407	A	C5-N7-C8	-7.79	100.00	103.90
85	5	2200	U	C5-C4-O4	7.79	130.57	125.90
85	5	2850	G	C2-N3-C4	-7.79	108.00	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	395	A	O5'-P-OP1	-7.79	98.69	105.70
36	1	653	A	N7-C8-N9	7.79	117.69	113.80
36	1	1876	U	N3-C4-C5	-7.79	109.93	114.60
85	5	213	A	N1-C2-N3	7.79	133.19	129.30
85	5	643	U	O5'-P-OP1	-7.79	98.69	105.70
85	5	812	G	N1-C2-N3	7.79	128.57	123.90
1	2	431	C	C2-N3-C4	7.79	123.79	119.90
1	2	1733	A	C6-N1-C2	-7.79	113.93	118.60
36	1	386	A	C6-C5-N7	-7.79	126.85	132.30
36	1	522	A	C5-C6-N6	-7.79	117.47	123.70
36	1	1113	G	OP2-P-O3'	7.79	122.33	105.20
37	3	8	G	N1-C2-N2	-7.79	109.19	116.20
80	6	932	U	N3-C4-C5	-7.79	109.93	114.60
80	6	1299	G	N1-C2-N3	7.79	128.57	123.90
85	5	511	G	C4-C5-C6	7.79	123.47	118.80
85	5	2290	C	C5-C6-N1	-7.79	117.11	121.00
85	5	3183	A	C6-N1-C2	-7.79	113.93	118.60
49	m3	101	ARG	NE-CZ-NH1	7.79	124.19	120.30
1	2	905	G	N7-C8-N9	-7.79	109.21	113.10
36	1	1710	C	N3-C4-C5	7.79	125.02	121.90
36	1	3315	G	N3-C2-N2	-7.79	114.45	119.90
80	6	1315	U	C2-N3-C4	-7.79	122.33	127.00
85	5	2299	A	C5-N7-C8	7.79	107.79	103.90
85	5	2877	G	C8-N9-C1'	7.79	137.12	127.00
36	1	221	A	OP1-P-OP2	7.79	131.28	119.60
36	1	618	C	C5-C6-N1	-7.79	117.11	121.00
36	1	1412	G	C6-C5-N7	-7.79	125.73	130.40
36	1	1838	G	C6-N1-C2	-7.79	120.43	125.10
36	1	2384	A	N7-C8-N9	7.79	117.69	113.80
36	1	2811	A	C5-C6-N1	7.79	121.59	117.70
36	1	3102	G	OP2-P-O3'	7.79	122.33	105.20
36	1	3197	G	C5-C6-N1	-7.79	107.61	111.50
37	3	109	G	C4-C5-N7	7.79	113.91	110.80
80	6	1004	U	C5-C4-O4	7.79	130.57	125.90
80	6	1771	U	N1-C2-N3	7.79	119.57	114.90
85	5	20	A	N1-C6-N6	-7.79	113.93	118.60
85	5	121	A	C4-C5-N7	7.79	114.59	110.70
85	5	856	G	C6-N1-C2	-7.79	120.43	125.10
85	5	2741	C	C4-C5-C6	7.79	121.29	117.40
36	1	826	G	C5-C6-N1	-7.78	107.61	111.50
36	1	1082	U	C6-N1-C2	-7.78	116.33	121.00
36	1	2168	A	N7-C8-N9	-7.78	109.91	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	3	11	A	C8-N9-C4	7.78	108.91	105.80
80	6	17	C	N3-C2-O2	-7.78	116.45	121.90
80	6	1640	C	N1-C2-O2	7.78	123.57	118.90
85	5	908	G	C5-C6-N1	7.78	115.39	111.50
85	5	1750	A	C4-C5-N7	7.78	114.59	110.70
38	8	87	G	O5'-P-OP1	-7.78	98.69	105.70
1	2	1773	A	C2-N3-C4	-7.78	106.71	110.60
36	1	2375	G	N3-C4-N9	7.78	130.67	126.00
85	5	282	G	C5-C6-N1	7.78	115.39	111.50
85	5	1473	G	C5-N7-C8	7.78	108.19	104.30
85	5	1619	A	O5'-P-OP2	-7.78	98.70	105.70
85	5	3078	U	N3-C2-O2	-7.78	116.75	122.20
36	1	252	U	N3-C2-O2	-7.78	116.75	122.20
36	1	1017	C	O5'-P-OP1	-7.78	98.70	105.70
36	1	1122	U	OP2-P-O3'	7.78	122.32	105.20
36	1	1586	G	N1-C2-N3	7.78	128.57	123.90
37	3	80	G	O5'-P-OP1	7.78	120.04	110.70
38	4	124	G	N1-C6-O6	7.78	124.57	119.90
80	6	33	U	O5'-P-OP2	7.78	120.04	110.70
85	5	395	A	C5-C6-N1	7.78	121.59	117.70
85	5	2621	G	N1-C6-O6	7.78	124.57	119.90
85	5	2680	A	OP2-P-O3'	7.78	122.32	105.20
85	5	3235	C	C5-C6-N1	7.78	124.89	121.00
38	8	132	G	N1-C2-N3	7.78	128.57	123.90
1	2	884	G	N7-C8-N9	7.78	116.99	113.10
80	6	787	G	N3-C2-N2	-7.78	114.45	119.90
80	6	1140	G	C8-N9-C4	-7.78	103.29	106.40
80	6	1145	U	OP1-P-OP2	-7.78	107.93	119.60
85	5	918	C	C6-N1-C2	7.78	123.41	120.30
1	2	1097	G	C8-N9-C4	7.78	109.51	106.40
36	1	79	U	C5-C6-N1	-7.78	118.81	122.70
36	1	96	G	N1-C6-O6	7.78	124.57	119.90
36	1	952	A	C2-N3-C4	-7.78	106.71	110.60
36	1	2333	C	C5-C6-N1	-7.78	117.11	121.00
36	1	3048	A	C8-N9-C4	-7.78	102.69	105.80
36	1	3099	C	O5'-P-OP2	-7.78	98.70	105.70
80	6	139	C	N3-C2-O2	-7.78	116.45	121.90
80	6	143	G	C2-N3-C4	-7.78	108.01	111.90
80	6	362	G	OP1-P-OP2	-7.78	107.93	119.60
80	6	1169	G	N9-C4-C5	7.78	108.51	105.40
85	5	83	U	N1-C2-N3	7.78	119.57	114.90
85	5	570	A	C5-C6-N1	7.78	121.59	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1047	A	C2-N3-C4	-7.78	106.71	110.60
85	5	1387	G	C4-C5-N7	7.78	113.91	110.80
85	5	1667	A	N9-C4-C5	-7.78	102.69	105.80
85	5	1886	A	C4-C5-N7	7.78	114.59	110.70
85	5	2894	C	N1-C2-O2	-7.78	114.23	118.90
85	5	3223	A	N9-C4-C5	7.78	108.91	105.80
36	1	1653	G	OP1-P-OP2	7.78	131.26	119.60
36	1	2324	A	C5-N7-C8	-7.78	100.01	103.90
80	6	144	U	O5'-P-OP2	-7.78	98.70	105.70
80	6	575	C	C5-C4-N4	-7.78	114.76	120.20
80	6	815	G	C8-N9-C4	-7.78	103.29	106.40
80	6	907	A	N9-C4-C5	7.78	108.91	105.80
85	5	3130	A	C4-C5-N7	-7.78	106.81	110.70
85	5	3172	A	N1-C2-N3	7.78	133.19	129.30
38	8	48	A	C8-N9-C4	-7.78	102.69	105.80
38	8	65	A	C5-C6-N1	7.78	121.59	117.70
36	1	262	U	N1-C2-N3	-7.77	110.24	114.90
36	1	1748	G	C4-C5-N7	-7.77	107.69	110.80
36	1	2095	G	N9-C4-C5	-7.77	102.29	105.40
80	6	936	G	C5-C6-O6	-7.77	123.94	128.60
85	5	1298	C	C5-C4-N4	-7.77	114.76	120.20
85	5	1346	G	C5-C6-N1	-7.77	107.61	111.50
85	5	1428	A	C6-N1-C2	-7.77	113.94	118.60
1	2	1469	G	N1-C2-N2	-7.77	109.20	116.20
36	1	156	G	C6-C5-N7	-7.77	125.74	130.40
36	1	158	G	C6-C5-N7	-7.77	125.74	130.40
36	1	557	A	C5-N7-C8	7.77	107.79	103.90
36	1	1324	U	C6-N1-C2	7.77	125.66	121.00
36	1	1907	C	O5'-P-OP2	-7.77	98.70	105.70
36	1	2147	A	N3-C4-C5	7.77	132.24	126.80
36	1	2398	A	N3-C4-C5	-7.77	121.36	126.80
36	1	3193	C	OP1-P-OP2	-7.77	107.94	119.60
38	4	52	A	N3-C4-C5	-7.77	121.36	126.80
80	6	403	G	N1-C2-N3	7.77	128.56	123.90
85	5	35	A	OP1-P-OP2	-7.77	107.94	119.60
85	5	45	A	O5'-P-OP2	-7.77	98.70	105.70
85	5	774	G	C8-N9-C4	7.77	109.51	106.40
85	5	2938	G	C5-N7-C8	-7.77	100.41	104.30
85	5	3394	U	C2-N3-C4	-7.77	122.34	127.00
38	8	112	U	N3-C4-C5	7.77	119.26	114.60
41	14	126	ILE	CG1-CB-CG2	-7.77	94.30	111.40
1	2	1061	C	N1-C2-O2	7.77	123.56	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1107	A	N1-C6-N6	7.77	123.26	118.60
1	2	1487	G	C8-N9-C4	-7.77	103.29	106.40
36	1	1182	A	N1-C2-N3	7.77	133.19	129.30
36	1	3274	A	C4-C5-C6	7.77	120.89	117.00
80	6	617	U	C4-C5-C6	7.77	124.36	119.70
85	5	1069	C	O5'-P-OP2	-7.77	98.71	105.70
1	2	1654	A	N1-C2-N3	7.77	133.19	129.30
36	1	838	G	C5-C6-N1	-7.77	107.61	111.50
36	1	3113	A	C4-C5-N7	-7.77	106.81	110.70
80	6	66	U	C5-C4-O4	-7.77	121.24	125.90
80	6	1449	U	N3-C4-O4	7.77	124.84	119.40
85	5	1927	G	C4-C5-N7	7.77	113.91	110.80
85	5	2855	U	C6-N1-C2	-7.77	116.34	121.00
1	2	1283	A	C4-C5-N7	-7.77	106.82	110.70
36	1	895	A	C8-N9-C4	-7.77	102.69	105.80
36	1	1345	G	N3-C4-N9	-7.77	121.34	126.00
36	1	2830	G	C5-C6-N1	-7.77	107.62	111.50
36	1	2938	G	O5'-P-OP2	-7.77	98.71	105.70
36	1	2953	U	N3-C4-C5	-7.77	109.94	114.60
85	5	136	G	N1-C6-O6	7.77	124.56	119.90
85	5	277	G	C4-C5-N7	-7.77	107.69	110.80
85	5	1775	G	O5'-P-OP2	7.77	120.02	110.70
85	5	2721	A	O5'-P-OP1	-7.77	98.71	105.70
85	5	2729	U	N1-C2-N3	-7.77	110.24	114.90
85	5	2919	A	N7-C8-N9	-7.77	109.92	113.80
1	2	1089	U	OP2-P-O3'	7.77	122.29	105.20
1	2	1250	G	C5-N7-C8	-7.77	100.42	104.30
80	6	46	A	C5-N7-C8	-7.77	100.02	103.90
85	5	2313	A	N7-C8-N9	7.77	117.68	113.80
85	5	2662	G	N7-C8-N9	7.77	116.98	113.10
1	2	254	A	C6-N1-C2	7.76	123.26	118.60
36	1	696	C	N1-C2-O2	7.76	123.56	118.90
36	1	797	U	N1-C2-N3	7.76	119.56	114.90
36	1	1132	C	C5-C6-N1	-7.76	117.12	121.00
36	1	1406	A	OP1-P-OP2	-7.76	107.95	119.60
36	1	2225	U	N3-C4-O4	7.76	124.83	119.40
36	1	2685	C	N3-C4-N4	7.76	123.44	118.00
36	1	2968	G	N3-C4-C5	7.76	132.48	128.60
80	6	235	G	C8-N9-C4	-7.76	103.29	106.40
80	6	526	A	C6-C5-N7	-7.76	126.86	132.30
85	5	25	U	C5-C6-N1	-7.76	118.82	122.70
85	5	1170	A	C5-C6-N1	-7.76	113.82	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1746	U	N1-C2-O2	-7.76	117.36	122.80
85	5	2425	G	C6-C5-N7	-7.76	125.74	130.40
85	5	2733	A	C8-N9-C4	7.76	108.91	105.80
85	5	2986	U	C6-N1-C2	-7.76	116.34	121.00
85	5	3210	A	C6-N1-C2	-7.76	113.94	118.60
85	5	3255	U	N1-C2-N3	-7.76	110.24	114.90
1	2	1114	A	O5'-P-OP2	-7.76	98.71	105.70
36	1	1854	C	N3-C2-O2	-7.76	116.47	121.90
36	1	2650	U	N3-C4-O4	-7.76	113.97	119.40
1	2	1740	G	N7-C8-N9	7.76	116.98	113.10
36	1	414	U	C5-C4-O4	-7.76	121.24	125.90
36	1	1194	G	OP1-P-OP2	7.76	131.24	119.60
36	1	3146	G	C8-N9-C4	7.76	109.50	106.40
36	1	3380	U	N3-C2-O2	7.76	127.63	122.20
37	3	94	C	N3-C2-O2	7.76	127.33	121.90
80	6	317	C	C2-N3-C4	-7.76	116.02	119.90
80	6	915	A	C8-N9-C4	-7.76	102.70	105.80
80	6	1553	G	C4-C5-N7	7.76	113.90	110.80
85	5	104	G	C5-C6-O6	-7.76	123.94	128.60
85	5	1057	A	N1-C6-N6	-7.76	113.94	118.60
85	5	1729	A	C4-C5-N7	7.76	114.58	110.70
85	5	1919	G	C2-N3-C4	-7.76	108.02	111.90
1	2	784	G	C8-N9-C4	-7.76	103.30	106.40
36	1	1093	A	N1-C2-N3	-7.76	125.42	129.30
36	1	2866	U	O4'-C1'-N1	-7.76	101.99	108.20
37	3	50	U	N3-C2-O2	7.76	127.63	122.20
37	3	103	A	C8-N9-C4	7.76	108.90	105.80
70	O4	60	ARG	NE-CZ-NH2	-7.76	116.42	120.30
80	6	486	G	C8-N9-C4	-7.76	103.30	106.40
80	6	1379	C	C6-N1-C2	-7.76	117.20	120.30
80	6	1474	G	O5'-P-OP1	-7.76	98.72	105.70
85	5	258	G	C5-C6-N1	-7.76	107.62	111.50
85	5	2246	G	C5-C6-N1	-7.76	107.62	111.50
85	5	2627	C	C5-C4-N4	7.76	125.63	120.20
85	5	3271	G	N7-C8-N9	-7.76	109.22	113.10
36	1	96	G	C5-C6-O6	-7.76	123.94	128.60
36	1	965	A	OP1-P-OP2	-7.76	107.96	119.60
36	1	2974	U	N1-C2-O2	-7.76	117.37	122.80
80	6	105	A	N9-C4-C5	-7.76	102.70	105.80
80	6	1775	U	C4-C5-C6	7.76	124.36	119.70
85	5	1139	G	C6-N1-C2	-7.76	120.44	125.10
85	5	1739	U	C6-N1-C2	-7.76	116.34	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	98	U	C5-C6-N1	7.76	126.58	122.70
1	2	278	U	N3-C4-O4	7.76	124.83	119.40
1	2	1445	G	N9-C4-C5	-7.76	102.30	105.40
36	1	87	U	N3-C4-C5	-7.76	109.95	114.60
36	1	854	G	C2-N3-C4	-7.76	108.02	111.90
36	1	1312	C	C6-N1-C2	-7.76	117.20	120.30
36	1	2385	G	N7-C8-N9	-7.76	109.22	113.10
80	6	334	G	C4-C5-N7	-7.76	107.70	110.80
80	6	1279	C	C6-N1-C2	-7.76	117.20	120.30
85	5	1348	U	O5'-P-OP2	7.76	120.01	110.70
85	5	1476	G	N9-C4-C5	-7.76	102.30	105.40
85	5	1611	G	C6-C5-N7	-7.76	125.75	130.40
85	5	2688	U	N3-C2-O2	7.76	127.63	122.20
85	5	3102	G	N3-C4-N9	-7.76	121.35	126.00
85	5	3279	A	N1-C2-N3	7.76	133.18	129.30
37	7	51	A	N7-C8-N9	7.76	117.68	113.80
38	8	62	C	N1-C2-N3	-7.76	113.77	119.20
1	2	1143	A	OP1-P-OP2	7.75	131.23	119.60
36	1	883	A	C6-N1-C2	-7.75	113.95	118.60
36	1	2383	C	C4-C5-C6	-7.75	113.52	117.40
36	1	2955	U	N3-C2-O2	-7.75	116.77	122.20
36	1	3224	G	C4-C5-N7	7.75	113.90	110.80
80	6	83	G	C5-C6-N1	-7.75	107.62	111.50
80	6	1317	C	C5-C4-N4	-7.75	114.77	120.20
85	5	192	C	C5-C4-N4	-7.75	114.77	120.20
85	5	1412	G	N3-C2-N2	-7.75	114.47	119.90
85	5	1439	U	O5'-P-OP1	7.75	120.01	110.70
36	1	712	G	C5-C6-O6	-7.75	123.95	128.60
36	1	2788	C	C6-N1-C2	7.75	123.40	120.30
80	6	92	A	O5'-P-OP2	-7.75	98.72	105.70
80	6	164	A	N1-C2-N3	7.75	133.18	129.30
80	6	1586	A	N1-C6-N6	7.75	123.25	118.60
85	5	30	G	N1-C2-N3	7.75	128.55	123.90
85	5	815	G	O4'-C1'-N9	-7.75	102.00	108.20
85	5	948	C	N3-C4-N4	7.75	123.43	118.00
85	5	1485	G	C5-C6-O6	-7.75	123.95	128.60
85	5	1712	G	C6-C5-N7	-7.75	125.75	130.40
85	5	1909	A	O5'-P-OP2	-7.75	98.72	105.70
85	5	2344	U	C6-N1-C2	-7.75	116.35	121.00
85	5	2590	A	C4-C5-N7	7.75	114.58	110.70
37	7	75	G	C8-N9-C4	7.75	109.50	106.40
36	1	259	C	N3-C4-C5	7.75	125.00	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	513	G	C4-C5-N7	-7.75	107.70	110.80
36	1	962	A	C8-N9-C4	-7.75	102.70	105.80
36	1	1160	C	C6-N1-C2	7.75	123.40	120.30
36	1	1345	G	C6-C5-N7	-7.75	125.75	130.40
36	1	2113	A	C5-C6-N1	7.75	121.58	117.70
36	1	3380	U	N3-C4-O4	7.75	124.83	119.40
38	4	135	G	C2-N3-C4	-7.75	108.02	111.90
85	5	4	U	N3-C2-O2	7.75	127.62	122.20
85	5	1390	A	C5-C6-N1	7.75	121.58	117.70
85	5	1703	U	N1-C2-N3	7.75	119.55	114.90
38	8	61	A	O5'-P-OP1	-7.75	98.72	105.70
36	1	600	G	C5-N7-C8	-7.75	100.42	104.30
36	1	2924	U	N3-C2-O2	7.75	127.62	122.20
36	1	2941	A	C6-N1-C2	7.75	123.25	118.60
85	5	1264	G	N3-C4-C5	-7.75	124.72	128.60
85	5	2309	A	OP1-P-OP2	-7.75	107.97	119.60
85	5	2794	G	OP1-P-OP2	7.75	131.22	119.60
85	5	2918	G	N9-C4-C5	7.75	108.50	105.40
1	2	813	U	C5-C4-O4	7.75	130.55	125.90
36	1	960	U	N3-C2-O2	7.75	127.62	122.20
36	1	1209	G	OP1-P-OP2	7.75	131.22	119.60
36	1	1518	U	N3-C2-O2	-7.75	116.78	122.20
36	1	3386	G	C6-C5-N7	-7.75	125.75	130.40
80	6	569	C	N1-C2-N3	7.75	124.62	119.20
80	6	625	C	C5-C4-N4	-7.75	114.78	120.20
80	6	989	U	N3-C4-O4	7.75	124.82	119.40
85	5	147	U	N1-C2-O2	-7.75	117.38	122.80
85	5	410	U	C4-C5-C6	7.75	124.35	119.70
85	5	1166	G	N7-C8-N9	-7.75	109.23	113.10
85	5	2247	G	N9-C4-C5	7.75	108.50	105.40
85	5	2395	G	C6-C5-N7	-7.75	125.75	130.40
1	2	598	U	C4-C5-C6	7.75	124.35	119.70
36	1	1415	U	O5'-P-OP1	-7.75	98.73	105.70
36	1	1643	A	N1-C6-N6	-7.75	113.95	118.60
36	1	2410	U	N3-C4-O4	7.75	124.82	119.40
36	1	3136	G	C5-C6-N1	7.75	115.37	111.50
38	4	113	U	N3-C2-O2	7.75	127.62	122.20
80	6	763	G	C5-C6-N1	-7.75	107.63	111.50
85	5	707	U	C5-C6-N1	-7.75	118.83	122.70
85	5	1205	A	N9-C4-C5	7.75	108.90	105.80
85	5	1863	G	C4-C5-C6	7.75	123.45	118.80
85	5	2302	G	N7-C8-N9	7.75	116.97	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	7	29	C	O5'-P-OP1	7.75	120.00	110.70
69	o3	18	ARG	NE-CZ-NH1	-7.75	116.43	120.30
36	1	426	G	C5-C6-N1	7.75	115.37	111.50
1	2	1006	A	N1-C6-N6	7.74	123.25	118.60
36	1	669	U	C5-C4-O4	-7.74	121.25	125.90
36	1	1410	U	C2-N3-C4	-7.74	122.35	127.00
36	1	2624	G	C6-C5-N7	-7.74	125.75	130.40
36	1	2906	C	C4-C5-C6	7.74	121.27	117.40
36	1	3121	U	N3-C4-C5	7.74	119.25	114.60
37	3	38	U	C5-C4-O4	-7.74	121.25	125.90
85	5	498	A	C8-N9-C4	-7.74	102.70	105.80
85	5	1309	U	C5-C4-O4	-7.74	121.25	125.90
85	5	2990	G	N1-C6-O6	7.74	124.55	119.90
1	2	586	G	C5-C6-N1	7.74	115.37	111.50
36	1	229	G	N9-C4-C5	7.74	108.50	105.40
36	1	2209	U	N3-C4-O4	7.74	124.82	119.40
85	5	1076	C	N3-C4-N4	-7.74	112.58	118.00
85	5	1939	G	C5-C6-O6	7.74	133.25	128.60
85	5	2240	G	C5-C6-O6	7.74	133.25	128.60
1	2	158	U	N1-C2-O2	-7.74	117.38	122.80
1	2	737	A	N7-C8-N9	-7.74	109.93	113.80
1	2	1101	G	C2-N3-C4	-7.74	108.03	111.90
36	1	1820	U	P-O3'-C3'	7.74	128.99	119.70
36	1	2181	C	C6-N1-C2	-7.74	117.20	120.30
36	1	3103	A	C5-C6-N6	7.74	129.89	123.70
38	4	107	G	C2-N3-C4	-7.74	108.03	111.90
80	6	551	G	N3-C2-N2	-7.74	114.48	119.90
85	5	653	A	C2-N3-C4	-7.74	106.73	110.60
85	5	3376	A	C4-C5-N7	-7.74	106.83	110.70
1	2	109	G	N1-C6-O6	7.74	124.54	119.90
1	2	859	G	C5-C6-O6	-7.74	123.96	128.60
36	1	534	U	N3-C2-O2	-7.74	116.78	122.20
36	1	1013	G	N7-C8-N9	7.74	116.97	113.10
36	1	2182	A	N9-C4-C5	7.74	108.89	105.80
36	1	2292	U	C5-C6-N1	7.74	126.57	122.70
36	1	2395	G	C5-N7-C8	-7.74	100.43	104.30
36	1	2817	A	C5-C6-N1	7.74	121.57	117.70
36	1	3213	A	C4-C5-C6	7.74	120.87	117.00
80	6	1722	A	C4-C5-N7	-7.74	106.83	110.70
85	5	209	A	N9-C4-C5	-7.74	102.70	105.80
85	5	343	U	C4-C5-C6	7.74	124.34	119.70
85	5	780	A	C8-N9-C4	-7.74	102.70	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	900	G	O4'-C1'-N9	7.74	114.39	108.20
85	5	2262	A	C2-N3-C4	7.74	114.47	110.60
36	1	216	G	N7-C8-N9	7.74	116.97	113.10
36	1	282	G	N1-C6-O6	-7.74	115.26	119.90
85	5	853	G	N1-C2-N2	-7.74	109.24	116.20
85	5	1434	G	C8-N9-C4	-7.74	103.31	106.40
36	1	1428	A	C4-C5-N7	7.74	114.57	110.70
36	1	2279	A	N7-C8-N9	7.74	117.67	113.80
85	5	1449	A	N7-C8-N9	-7.74	109.93	113.80
85	5	1889	G	N9-C4-C5	-7.74	102.31	105.40
85	5	3049	A	C5-C6-N6	7.74	129.89	123.70
85	5	3121	U	C5-C4-O4	7.74	130.54	125.90
37	7	91	G	C4-N9-C1'	7.74	136.56	126.50
1	2	1533	A	N1-C6-N6	-7.73	113.96	118.60
36	1	2564	G	O5'-P-OP2	-7.73	98.74	105.70
37	3	90	U	C5-C4-O4	7.73	130.54	125.90
80	6	16	G	C5-C6-N1	7.73	115.37	111.50
36	1	645	A	C5-N7-C8	7.73	107.77	103.90
36	1	709	A	C4-C5-N7	-7.73	106.83	110.70
36	1	1593	A	C2-N3-C4	-7.73	106.73	110.60
36	1	2632	G	C8-N9-C4	7.73	109.49	106.40
36	1	2949	U	OP1-P-O3'	7.73	122.21	105.20
36	1	3385	U	N3-C4-O4	-7.73	113.99	119.40
38	4	114	G	OP1-P-OP2	7.73	131.20	119.60
80	6	279	G	N3-C4-C5	7.73	132.47	128.60
80	6	632	U	N1-C2-O2	7.73	128.21	122.80
85	5	574	U	C5-C6-N1	7.73	126.57	122.70
85	5	1681	U	N3-C4-O4	-7.73	113.99	119.40
85	5	2152	A	N9-C4-C5	7.73	108.89	105.80
85	5	3246	G	O5'-P-OP1	7.73	119.98	110.70
1	2	1726	U	C5-C6-N1	7.73	126.56	122.70
36	1	82	C	C4-C5-C6	7.73	121.27	117.40
36	1	765	C	N1-C2-O2	7.73	123.54	118.90
36	1	2935	U	N3-C4-O4	7.73	124.81	119.40
38	4	71	A	C6-N1-C2	-7.73	113.96	118.60
80	6	263	C	N3-C4-C5	-7.73	118.81	121.90
80	6	607	G	C8-N9-C4	-7.73	103.31	106.40
80	6	634	G	C8-N9-C4	-7.73	103.31	106.40
85	5	793	C	C2-N1-C1'	7.73	127.30	118.80
85	5	1068	C	N1-C2-O2	-7.73	114.26	118.90
85	5	2218	G	N3-C2-N2	7.73	125.31	119.90
1	2	305	C	C4-C5-C6	7.73	121.27	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	878	G	C5-C6-N1	-7.73	107.64	111.50
36	1	52	A	N3-C4-C5	-7.73	121.39	126.80
36	1	805	G	C5-C6-N1	7.73	115.36	111.50
36	1	1935	G	C8-N9-C4	7.73	109.49	106.40
36	1	2426	U	C5-C4-O4	7.73	130.54	125.90
36	1	3044	G	O5'-P-OP1	7.73	119.97	110.70
85	5	351	A	O5'-P-OP2	-7.73	98.74	105.70
85	5	522	A	N1-C2-N3	7.73	133.16	129.30
85	5	1637	A	C6-N1-C2	-7.73	113.96	118.60
85	5	2368	A	N1-C6-N6	-7.73	113.96	118.60
85	5	3329	U	C4-C5-C6	7.73	124.34	119.70
85	5	3385	U	C5-C6-N1	7.73	126.56	122.70
36	1	44	U	N1-C2-O2	7.73	128.21	122.80
36	1	307	A	C6-C5-N7	7.73	137.71	132.30
36	1	817	A	N1-C2-N3	-7.73	125.44	129.30
36	1	1661	G	C4-C5-C6	7.73	123.44	118.80
36	1	2966	G	N1-C6-O6	7.73	124.54	119.90
85	5	367	A	C5-N7-C8	-7.73	100.04	103.90
85	5	380	U	C4-C5-C6	7.73	124.34	119.70
85	5	2907	G	C8-N9-C4	7.73	109.49	106.40
85	5	2978	U	C4-C5-C6	7.73	124.34	119.70
85	5	3025	C	C4-C5-C6	7.73	121.26	117.40
1	2	356	G	C4-C5-N7	7.73	113.89	110.80
1	2	908	G	C2-N3-C4	7.73	115.76	111.90
1	2	1781	U	OP1-P-OP2	-7.73	108.01	119.60
36	1	236	G	N1-C6-O6	-7.73	115.26	119.90
36	1	1341	U	C4-C5-C6	7.73	124.33	119.70
36	1	2896	A	N3-C4-N9	-7.73	121.22	127.40
80	6	542	A	C8-N9-C4	-7.73	102.71	105.80
85	5	1530	U	N3-C4-C5	7.73	119.24	114.60
85	5	1607	U	P-O3'-C3'	7.73	128.97	119.70
85	5	2877	G	C5-C6-N1	7.73	115.36	111.50
1	2	1137	G	C5-N7-C8	-7.72	100.44	104.30
36	1	1539	A	N1-C6-N6	-7.72	113.97	118.60
36	1	1927	G	OP1-P-OP2	7.72	131.19	119.60
36	1	2335	G	C5-C6-O6	7.72	133.24	128.60
38	4	147	U	N3-C4-O4	7.72	124.81	119.40
85	5	598	A	C2-N3-C4	7.72	114.46	110.60
85	5	2234	G	N1-C6-O6	7.72	124.53	119.90
85	5	2272	G	N3-C2-N2	-7.72	114.49	119.90
38	8	102	U	N3-C4-O4	7.72	124.81	119.40
1	2	897	G	C5-C6-N1	-7.72	107.64	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1496	C	N3-C4-C5	-7.72	118.81	121.90
80	6	481	A	N7-C8-N9	-7.72	109.94	113.80
85	5	1866	C	O4'-C1'-N1	-7.72	102.02	108.20
85	5	1876	U	C5-C6-N1	-7.72	118.84	122.70
85	5	3209	A	C4-C5-N7	-7.72	106.84	110.70
1	2	158	U	N3-C2-O2	7.72	127.61	122.20
36	1	2336	U	N1-C2-N3	-7.72	110.27	114.90
36	1	2638	C	C6-N1-C2	-7.72	117.21	120.30
37	3	103	A	O5'-P-OP2	-7.72	98.75	105.70
85	5	3112	G	C5-C6-O6	-7.72	123.97	128.60
36	1	810	A	C8-N9-C4	-7.72	102.71	105.80
36	1	2377	G	N1-C2-N3	7.72	128.53	123.90
37	3	67	G	C5-C6-N1	-7.72	107.64	111.50
85	5	783	A	N3-C4-C5	7.72	132.20	126.80
85	5	813	G	C2-N3-C4	-7.72	108.04	111.90
85	5	1938	U	N3-C4-O4	7.72	124.80	119.40
85	5	2675	C	C2-N3-C4	7.72	123.76	119.90
36	1	245	U	N1-C2-O2	7.72	128.20	122.80
36	1	1695	U	N3-C2-O2	-7.72	116.80	122.20
36	1	1704	A	C6-N1-C2	-7.72	113.97	118.60
85	5	971	G	C5-C6-N1	7.72	115.36	111.50
85	5	1090	G	OP1-P-OP2	-7.72	108.02	119.60
85	5	1214	U	C6-N1-C2	-7.72	116.37	121.00
85	5	2206	G	C2-N3-C4	7.72	115.76	111.90
1	2	93	A	N7-C8-N9	-7.72	109.94	113.80
36	1	678	G	C5-C6-N1	-7.72	107.64	111.50
36	1	1311	G	N1-C6-O6	7.72	124.53	119.90
36	1	1484	U	P-O3'-C3'	7.72	128.96	119.70
36	1	2415	C	N3-C4-N4	-7.72	112.60	118.00
36	1	2528	G	C5-C6-O6	-7.72	123.97	128.60
36	1	2851	A	C4-C5-N7	-7.72	106.84	110.70
38	4	53	A	N9-C4-C5	7.72	108.89	105.80
38	4	60	U	N1-C2-N3	-7.72	110.27	114.90
80	6	1649	G	C8-N9-C1'	7.72	137.03	127.00
85	5	503	C	C5-C4-N4	-7.72	114.80	120.20
85	5	511	G	N9-C4-C5	7.72	108.49	105.40
85	5	2099	A	N1-C6-N6	-7.72	113.97	118.60
85	5	3050	U	O5'-P-OP2	7.72	119.96	110.70
37	7	30	G	N1-C2-N3	7.72	128.53	123.90
1	2	1724	U	N3-C4-C5	-7.71	109.97	114.60
36	1	418	A	C5-C6-N6	7.71	129.87	123.70
80	6	1497	U	N1-C2-O2	-7.71	117.40	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	356	C	N3-C4-C5	7.71	124.99	121.90
85	5	740	G	O5'-P-OP1	-7.71	98.76	105.70
85	5	1439	U	N1-C2-O2	7.71	128.20	122.80
85	5	2125	A	C8-N9-C4	-7.71	102.72	105.80
85	5	3039	C	C5-C6-N1	-7.71	117.14	121.00
1	2	292	U	N1-C2-N3	7.71	119.53	114.90
36	1	642	U	OP1-P-OP2	-7.71	108.03	119.60
36	1	970	A	OP1-P-OP2	-7.71	108.03	119.60
80	6	1395	G	N1-C6-O6	7.71	124.53	119.90
85	5	711	A	C5-C6-N1	-7.71	113.84	117.70
85	5	1899	G	N1-C2-N3	7.71	128.53	123.90
85	5	3328	G	C5-C6-N1	7.71	115.36	111.50
1	2	1165	U	N1-C2-N3	7.71	119.53	114.90
36	1	794	U	C6-N1-C2	7.71	125.63	121.00
36	1	1662	G	N3-C4-N9	7.71	130.63	126.00
36	1	1740	U	N3-C2-O2	7.71	127.60	122.20
80	6	322	G	C5-C6-O6	-7.71	123.97	128.60
80	6	480	G	C5-C6-O6	7.71	133.23	128.60
80	6	924	A	C8-N9-C4	-7.71	102.72	105.80
80	6	1013	A	C5-N7-C8	-7.71	100.04	103.90
80	6	1618	C	C6-N1-C2	7.71	123.38	120.30
85	5	96	G	N3-C4-N9	-7.71	121.37	126.00
85	5	1867	A	N1-C2-N3	7.71	133.16	129.30
38	8	25	G	OP1-P-OP2	7.71	131.17	119.60
1	2	255	U	C6-N1-C2	-7.71	116.37	121.00
36	1	85	A	N1-C2-N3	7.71	133.16	129.30
36	1	672	A	C6-N1-C2	7.71	123.23	118.60
36	1	965	A	N7-C8-N9	7.71	117.66	113.80
36	1	1730	G	N3-C4-C5	-7.71	124.75	128.60
36	1	2918	G	N7-C8-N9	7.71	116.95	113.10
36	1	3332	U	C6-N1-C2	7.71	125.63	121.00
38	4	43	A	C6-N1-C2	-7.71	113.97	118.60
38	4	145	U	C5-C6-N1	-7.71	118.84	122.70
64	N8	63	LYS	CD-CE-NZ	7.71	129.43	111.70
80	6	1285	U	N3-C4-O4	-7.71	114.00	119.40
1	2	559	C	N1-C2-O2	7.71	123.53	118.90
36	1	946	U	C2-N3-C4	-7.71	122.38	127.00
36	1	1304	A	O5'-P-OP1	-7.71	98.76	105.70
36	1	2096	A	N7-C8-N9	7.71	117.65	113.80
36	1	2615	G	N3-C2-N2	-7.71	114.50	119.90
36	1	2656	A	N9-C4-C5	7.71	108.88	105.80
36	1	2818	U	C5-C6-N1	7.71	126.55	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
64	N8	91	LEU	CB-CG-CD2	-7.71	97.90	111.00
80	6	310	C	C5-C6-N1	-7.71	117.14	121.00
80	6	1718	G	C4-C5-N7	-7.71	107.72	110.80
85	5	202	G	N9-C4-C5	-7.71	102.32	105.40
85	5	499	G	C4-C5-C6	7.71	123.42	118.80
85	5	930	U	N3-C4-O4	-7.71	114.00	119.40
85	5	1113	G	OP2-P-O3'	7.71	122.16	105.20
85	5	2981	U	OP1-P-O3'	7.71	122.16	105.20
36	1	71	A	C8-N9-C4	-7.71	102.72	105.80
36	1	496	C	N3-C4-C5	7.71	124.98	121.90
36	1	500	C	N3-C4-C5	-7.71	118.82	121.90
36	1	771	A	OP1-P-OP2	-7.71	108.04	119.60
36	1	831	G	N3-C2-N2	-7.71	114.51	119.90
36	1	1039	U	C6-N1-C2	7.71	125.62	121.00
36	1	1136	A	C4-C5-C6	7.71	120.85	117.00
36	1	1164	G	C6-C5-N7	-7.71	125.78	130.40
36	1	2100	A	C2-N3-C4	7.71	114.45	110.60
36	1	3126	C	C4-C5-C6	-7.71	113.55	117.40
38	4	92	A	OP1-P-OP2	-7.71	108.04	119.60
80	6	344	A	N1-C2-N3	-7.71	125.45	129.30
80	6	1047	G	C5-N7-C8	-7.71	100.45	104.30
85	5	863	C	C5-C6-N1	-7.71	117.15	121.00
85	5	1539	A	N1-C6-N6	-7.71	113.98	118.60
85	5	2769	A	N7-C8-N9	-7.71	109.95	113.80
85	5	2886	U	N1-C2-O2	-7.71	117.41	122.80
85	5	3145	C	O5'-P-OP2	7.71	119.95	110.70
36	1	1697	A	C5-C6-N1	-7.71	113.85	117.70
36	1	1851	G	N3-C4-C5	7.71	132.45	128.60
36	1	1876	U	C4-C5-C6	7.71	124.32	119.70
36	1	2607	G	N7-C8-N9	-7.71	109.25	113.10
36	1	3239	G	C4-C5-N7	7.71	113.88	110.80
36	1	3337	G	N1-C2-N3	7.71	128.52	123.90
80	6	1172	G	N1-C6-O6	-7.71	115.28	119.90
80	6	1439	C	C5-C6-N1	7.71	124.85	121.00
85	5	1433	A	C5-C6-N1	7.71	121.55	117.70
85	5	2365	C	N3-C2-O2	7.71	127.29	121.90
1	2	1726	U	N3-C4-O4	7.70	124.79	119.40
36	1	805	G	N1-C2-N3	7.70	128.52	123.90
36	1	1346	G	C5-C6-N1	-7.70	107.65	111.50
36	1	2427	U	C5-C6-N1	-7.70	118.85	122.70
36	1	2732	G	N1-C2-N3	7.70	128.52	123.90
36	1	2983	C	C5-C4-N4	7.70	125.59	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3052	G	OP1-P-O3'	7.70	122.15	105.20
52	M6	128	ARG	NE-CZ-NH1	-7.70	116.45	120.30
80	6	1095	U	C4-C5-C6	7.70	124.32	119.70
80	6	1620	C	O5'-P-OP1	-7.70	98.77	105.70
85	5	239	G	C8-N9-C4	-7.70	103.32	106.40
85	5	419	G	N1-C2-N2	-7.70	109.27	116.20
85	5	2679	A	N1-C6-N6	7.70	123.22	118.60
1	2	553	G	N7-C8-N9	7.70	116.95	113.10
36	1	209	A	OP1-P-OP2	7.70	131.15	119.60
36	1	2376	G	N1-C6-O6	-7.70	115.28	119.90
80	6	1362	U	N1-C2-O2	7.70	128.19	122.80
85	5	2551	U	N3-C2-O2	-7.70	116.81	122.20
85	5	2831	G	C6-C5-N7	-7.70	125.78	130.40
85	5	3015	G	C4-C5-N7	-7.70	107.72	110.80
85	5	3381	U	N1-C2-N3	7.70	119.52	114.90
1	2	416	A	C4-C5-C6	-7.70	113.15	117.00
1	2	1056	G	C8-N9-C4	7.70	109.48	106.40
1	2	1115	A	C6-C5-N7	7.70	137.69	132.30
1	2	1150	G	C5-C6-O6	-7.70	123.98	128.60
1	2	1507	A	N9-C4-C5	7.70	108.88	105.80
36	1	56	G	C6-N1-C2	-7.70	120.48	125.10
36	1	204	A	C2-N3-C4	-7.70	106.75	110.60
36	1	404	G	N1-C6-O6	-7.70	115.28	119.90
36	1	1809	A	C8-N9-C4	7.70	108.88	105.80
36	1	2376	G	C4-C5-N7	7.70	113.88	110.80
85	5	120	G	O5'-P-OP1	-7.70	98.77	105.70
85	5	305	U	C4-C5-C6	7.70	124.32	119.70
85	5	346	C	C5-C6-N1	-7.70	117.15	121.00
85	5	753	C	C5-C4-N4	-7.70	114.81	120.20
85	5	1373	A	C5-C6-N6	-7.70	117.54	123.70
85	5	1477	A	N1-C2-N3	7.70	133.15	129.30
85	5	3151	U	C2-N3-C4	7.70	131.62	127.00
37	7	32	U	C2-N3-C4	-7.70	122.38	127.00
38	8	52	A	C6-N1-C2	-7.70	113.98	118.60
1	2	1115	A	C5-C6-N6	7.70	129.86	123.70
36	1	306	A	C2-N3-C4	-7.70	106.75	110.60
36	1	366	A	C4-C5-N7	-7.70	106.85	110.70
36	1	797	U	C4-C5-C6	7.70	124.32	119.70
36	1	1088	U	N1-C2-O2	-7.70	117.41	122.80
36	1	1529	A	C6-C5-N7	-7.70	126.91	132.30
36	1	1906	G	C5-N7-C8	-7.70	100.45	104.30
36	1	2140	U	C4-C5-C6	-7.70	115.08	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2609	A	N1-C6-N6	-7.70	113.98	118.60
85	5	79	U	C2-N3-C4	-7.70	122.38	127.00
85	5	216	G	C5-N7-C8	-7.70	100.45	104.30
85	5	400	G	C5-N7-C8	-7.70	100.45	104.30
85	5	953	G	C5-N7-C8	-7.70	100.45	104.30
85	5	1222	G	O5'-P-OP1	-7.70	98.77	105.70
85	5	1445	U	O5'-P-OP2	-7.70	98.77	105.70
85	5	1515	A	C4-C5-N7	7.70	114.55	110.70
85	5	2253	G	C5-C6-O6	-7.70	123.98	128.60
48	m1	143	ARG	NE-CZ-NH1	-7.70	116.45	120.30
36	1	580	C	N1-C2-N3	7.70	124.59	119.20
36	1	702	C	N3-C4-C5	-7.70	118.82	121.90
36	1	1393	A	OP2-P-O3'	7.70	122.13	105.20
36	1	2895	G	N9-C4-C5	-7.70	102.32	105.40
80	6	1293	U	C2-N1-C1'	-7.70	108.46	117.70
36	1	274	G	C5-C6-N1	-7.70	107.65	111.50
36	1	895	A	N3-C4-C5	7.70	132.19	126.80
37	3	66	A	C5-C6-N1	7.70	121.55	117.70
80	6	572	C	N3-C4-C5	7.70	124.98	121.90
80	6	1478	G	O5'-P-OP2	-7.70	98.77	105.70
85	5	1909	A	C5-C6-N1	7.70	121.55	117.70
85	5	2096	A	C2-N3-C4	-7.70	106.75	110.60
85	5	3262	U	N1-C2-N3	7.70	119.52	114.90
36	1	1521	G	OP1-P-OP2	-7.69	108.06	119.60
36	1	1906	G	N1-C6-O6	7.69	124.52	119.90
80	6	360	A	C4-C5-C6	-7.69	113.15	117.00
80	6	609	U	C4-C5-C6	7.69	124.32	119.70
85	5	1223	A	N1-C2-N3	7.69	133.15	129.30
85	5	2250	G	C6-C5-N7	7.69	135.02	130.40
1	2	319	U	C5-C6-N1	7.69	126.55	122.70
36	1	221	A	OP1-P-O3'	7.69	122.12	105.20
36	1	1139	G	N3-C4-N9	-7.69	121.39	126.00
36	1	2890	A	N7-C8-N9	7.69	117.65	113.80
38	4	32	C	C2-N3-C4	-7.69	116.05	119.90
52	M6	16	VAL	CG1-CB-CG2	-7.69	98.59	110.90
80	6	364	G	C6-N1-C2	-7.69	120.48	125.10
85	5	435	C	C6-N1-C2	-7.69	117.22	120.30
85	5	631	U	N1-C2-N3	7.69	119.52	114.90
85	5	735	A	C2-N3-C4	-7.69	106.75	110.60
85	5	1011	A	OP2-P-O3'	7.69	122.12	105.20
38	8	145	U	C5-C6-N1	7.69	126.55	122.70
1	2	432	G	O5'-P-OP2	-7.69	98.78	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	986	A	O5'-P-OP1	-7.69	98.78	105.70
1	2	1193	C	C5-C6-N1	7.69	124.84	121.00
36	1	1622	U	C2-N3-C4	-7.69	122.39	127.00
38	4	139	U	N3-C2-O2	-7.69	116.82	122.20
85	5	900	G	N1-C6-O6	-7.69	115.28	119.90
85	5	1133	A	C4-N9-C1'	7.69	140.14	126.30
85	5	2401	A	N1-C2-N3	-7.69	125.45	129.30
85	5	2548	C	N1-C2-O2	7.69	123.52	118.90
85	5	2769	A	C5-C6-N1	-7.69	113.86	117.70
36	1	698	U	C5-C6-N1	7.69	126.54	122.70
36	1	939	U	N1-C2-N3	7.69	119.51	114.90
36	1	3359	A	N1-C2-N3	-7.69	125.46	129.30
38	4	91	C	N3-C4-C5	7.69	124.98	121.90
80	6	249	U	N1-C2-N3	7.69	119.51	114.90
80	6	936	G	N3-C2-N2	-7.69	114.52	119.90
80	6	1547	A	C5-N7-C8	-7.69	100.06	103.90
85	5	1463	U	O4'-C1'-N1	-7.69	102.05	108.20
85	5	2239	G	N3-C4-N9	-7.69	121.39	126.00
85	5	2328	U	N1-C2-O2	-7.69	117.42	122.80
1	2	430	G	C4-C5-N7	-7.69	107.72	110.80
36	1	1205	A	N9-C4-C5	-7.69	102.72	105.80
36	1	1756	C	OP1-P-OP2	7.69	131.13	119.60
36	1	2639	G	C4-C5-C6	7.69	123.41	118.80
36	1	3187	A	C6-N1-C2	-7.69	113.99	118.60
80	6	1025	A	N1-C6-N6	7.69	123.21	118.60
85	5	91	G	N9-C4-C5	7.69	108.47	105.40
85	5	1494	U	C5-C4-O4	7.69	130.51	125.90
85	5	2382	G	C4-N9-C1'	-7.69	116.51	126.50
85	5	3381	U	O5'-P-OP1	7.69	119.93	110.70
36	1	912	G	C4-C5-N7	-7.69	107.73	110.80
36	1	993	G	C6-N1-C2	-7.69	120.49	125.10
36	1	1300	G	O5'-P-OP2	7.69	119.92	110.70
36	1	1362	G	OP1-P-OP2	-7.69	108.07	119.60
36	1	2351	U	C6-N1-C2	-7.69	116.39	121.00
36	1	3361	G	N1-C2-N2	-7.69	109.28	116.20
80	6	310	C	C4-C5-C6	7.69	121.24	117.40
80	6	1288	G	C8-N9-C4	7.69	109.47	106.40
85	5	76	G	C5-N7-C8	-7.69	100.46	104.30
85	5	2196	C	C5-C4-N4	7.69	125.58	120.20
85	5	2651	G	C8-N9-C4	7.69	109.47	106.40
1	2	47	A	C6-N1-C2	-7.68	113.99	118.60
1	2	93	A	N1-C6-N6	-7.68	113.99	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	335	G	N9-C4-C5	7.68	108.47	105.40
36	1	437	G	C2-N3-C4	7.68	115.74	111.90
36	1	567	G	C5-C6-N1	-7.68	107.66	111.50
36	1	942	U	C2-N1-C1'	7.68	126.92	117.70
36	1	2211	U	C5-C4-O4	7.68	130.51	125.90
36	1	3266	G	C5-N7-C8	7.68	108.14	104.30
85	5	815	G	C6-C5-N7	7.68	135.01	130.40
85	5	894	G	N7-C8-N9	7.68	116.94	113.10
85	5	932	U	C5-C6-N1	-7.68	118.86	122.70
38	8	148	G	N1-C6-O6	7.68	124.51	119.90
36	1	1899	G	C5-C6-N1	7.68	115.34	111.50
36	1	1925	U	OP1-P-OP2	7.68	131.12	119.60
38	4	152	G	C5-C6-O6	7.68	133.21	128.60
80	6	1656	U	O5'-P-OP2	-7.68	98.79	105.70
85	5	96	G	C4-C5-N7	7.68	113.87	110.80
85	5	2255	A	C5-C6-N1	7.68	121.54	117.70
85	5	2312	A	N1-C6-N6	-7.68	113.99	118.60
37	7	71	G	N9-C4-C5	-7.68	102.33	105.40
38	8	102	U	N3-C4-C5	-7.68	109.99	114.60
36	1	2561	A	C8-N9-C4	7.68	108.87	105.80
37	3	27	A	C8-N9-C4	-7.68	102.73	105.80
80	6	381	C	OP1-P-O3'	-7.68	88.30	105.20
80	6	561	G	C5-C6-N1	-7.68	107.66	111.50
80	6	788	A	O5'-P-OP1	7.68	119.92	110.70
85	5	1598	G	C8-N9-C4	7.68	109.47	106.40
85	5	1616	U	C4-C5-C6	7.68	124.31	119.70
85	5	2890	A	N1-C6-N6	-7.68	113.99	118.60
85	5	3328	G	N7-C8-N9	7.68	116.94	113.10
1	2	1121	A	C8-N9-C4	-7.68	102.73	105.80
36	1	210	U	N3-C4-O4	-7.68	114.03	119.40
36	1	668	G	N1-C6-O6	-7.68	115.29	119.90
36	1	820	A	C2-N3-C4	7.68	114.44	110.60
36	1	923	C	N3-C2-O2	-7.68	116.52	121.90
36	1	1716	U	O5'-P-OP2	-7.68	98.79	105.70
36	1	2549	G	C5-N7-C8	7.68	108.14	104.30
36	1	3202	G	N3-C2-N2	7.68	125.28	119.90
80	6	1670	G	N3-C2-N2	-7.68	114.52	119.90
85	5	60	A	N1-C2-N3	7.68	133.14	129.30
85	5	88	A	N3-C4-C5	7.68	132.18	126.80
85	5	1536	G	C4-C5-N7	7.68	113.87	110.80
85	5	2806	U	C5-C6-N1	-7.68	118.86	122.70
85	5	2850	G	N9-C4-C5	-7.68	102.33	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2941	A	C8-N9-C4	-7.68	102.73	105.80
85	5	3154	C	N1-C2-O2	7.68	123.51	118.90
85	5	3179	U	C6-N1-C2	-7.68	116.39	121.00
52	m6	53	LYS	CD-CE-NZ	7.68	129.36	111.70
36	1	3041	U	OP1-P-OP2	-7.68	108.08	119.60
85	5	607	A	C4-C5-N7	-7.68	106.86	110.70
85	5	2671	A	N1-C2-N3	7.68	133.14	129.30
1	2	322	G	N1-C2-N3	7.68	128.51	123.90
1	2	887	G	C5-C6-O6	7.68	133.21	128.60
36	1	2710	C	N3-C2-O2	7.68	127.27	121.90
38	4	122	U	OP1-P-OP2	-7.68	108.08	119.60
80	6	670	U	N1-C2-O2	7.68	128.17	122.80
80	6	1070	C	C6-N1-C1'	7.68	130.01	120.80
80	6	1154	G	C5-N7-C8	-7.68	100.46	104.30
80	6	1154	G	N1-C2-N3	7.68	128.51	123.90
85	5	1406	A	C4-C5-N7	7.68	114.54	110.70
85	5	1440	G	OP1-P-O3'	-7.68	88.31	105.20
85	5	1551	C	N1-C2-O2	-7.68	114.29	118.90
85	5	2750	U	N1-C2-N3	7.68	119.51	114.90
1	2	613	G	C2-N3-C4	7.67	115.74	111.90
1	2	625	C	N3-C2-O2	-7.67	116.53	121.90
36	1	27	C	N3-C2-O2	-7.67	116.53	121.90
36	1	889	U	C5-C4-O4	-7.67	121.30	125.90
36	1	2582	C	C5-C6-N1	7.67	124.84	121.00
36	1	2957	G	N1-C2-N3	7.67	128.50	123.90
36	1	3364	C	C5-C4-N4	7.67	125.57	120.20
80	6	33	U	N3-C4-O4	7.67	124.77	119.40
85	5	50	U	C6-N1-C2	-7.67	116.39	121.00
85	5	290	G	C8-N9-C4	7.67	109.47	106.40
85	5	1679	A	C2-N3-C4	7.67	114.44	110.60
85	5	2145	A	N7-C8-N9	7.67	117.64	113.80
85	5	2696	A	C4-C5-C6	-7.67	113.16	117.00
85	5	2946	A	C5-N7-C8	-7.67	100.06	103.90
1	2	1506	G	N1-C6-O6	-7.67	115.30	119.90
36	1	1129	A	C8-N9-C4	-7.67	102.73	105.80
36	1	2114	C	C2-N3-C4	-7.67	116.06	119.90
36	1	2416	U	N3-C4-O4	-7.67	114.03	119.40
36	1	3000	A	O4'-C1'-N9	-7.67	102.06	108.20
38	4	81	U	C5-C4-O4	7.67	130.50	125.90
80	6	1663	G	C4-C5-C6	7.67	123.40	118.80
85	5	3378	C	N3-C4-C5	7.67	124.97	121.90
1	2	356	G	N7-C8-N9	7.67	116.94	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1338	C	C4-C5-C6	-7.67	113.56	117.40
36	1	3324	C	C6-N1-C2	7.67	123.37	120.30
80	6	9	U	N1-C2-N3	7.67	119.50	114.90
80	6	58	U	C2-N3-C4	7.67	131.60	127.00
80	6	988	A	O5'-P-OP2	-7.67	98.80	105.70
80	6	1041	G	N9-C4-C5	7.67	108.47	105.40
85	5	327	A	N1-C2-N3	-7.67	125.46	129.30
85	5	407	A	C6-C5-N7	-7.67	126.93	132.30
85	5	950	G	N1-C2-N2	-7.67	109.30	116.20
85	5	2112	U	N3-C2-O2	7.67	127.57	122.20
85	5	2974	U	N1-C2-N3	7.67	119.50	114.90
1	2	598	U	C5-C6-N1	-7.67	118.86	122.70
85	5	404	G	N7-C8-N9	7.67	116.94	113.10
85	5	638	C	C4-C5-C6	7.67	121.23	117.40
85	5	1041	U	N3-C2-O2	7.67	127.57	122.20
85	5	1045	C	O5'-P-OP2	7.67	119.90	110.70
1	2	377	G	C6-C5-N7	7.67	135.00	130.40
1	2	1101	G	C5-C6-N1	-7.67	107.67	111.50
36	1	134	U	N3-C4-C5	7.67	119.20	114.60
36	1	189	G	N7-C8-N9	7.67	116.94	113.10
36	1	201	A	C4-C5-C6	7.67	120.83	117.00
36	1	1380	G	O5'-P-OP2	-7.67	98.80	105.70
36	1	1580	A	C2-N3-C4	7.67	114.43	110.60
36	1	2361	A	C6-N1-C2	-7.67	114.00	118.60
36	1	2838	A	O5'-P-OP1	7.67	119.90	110.70
38	4	53	A	C4-C5-N7	-7.67	106.87	110.70
80	6	578	U	C6-N1-C2	7.67	125.60	121.00
85	5	2139	A	N1-C2-N3	7.67	133.13	129.30
85	5	3325	G	O5'-P-OP2	-7.67	98.80	105.70
36	1	344	A	O5'-P-OP1	-7.67	98.80	105.70
36	1	696	C	N3-C2-O2	-7.67	116.53	121.90
36	1	1425	U	C4-C5-C6	7.67	124.30	119.70
36	1	1531	C	C6-N1-C2	-7.67	117.23	120.30
85	5	812	G	N9-C4-C5	7.67	108.47	105.40
85	5	849	C	O5'-P-OP2	-7.67	98.80	105.70
1	2	982	U	C6-N1-C2	-7.67	116.40	121.00
36	1	282	G	N1-C2-N3	7.67	128.50	123.90
36	1	705	A	N1-C6-N6	7.67	123.20	118.60
36	1	3098	G	N1-C2-N3	7.67	128.50	123.90
80	6	864	U	N1-C2-N3	7.67	119.50	114.90
36	1	8	C	C6-N1-C2	7.66	123.36	120.30
36	1	693	A	N1-C2-N3	7.66	133.13	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2218	G	N1-C6-O6	-7.66	115.30	119.90
36	1	2732	G	C2-N3-C4	-7.66	108.07	111.90
36	1	3325	G	C8-N9-C4	-7.66	103.33	106.40
80	6	859	A	O5'-P-OP2	-7.66	98.80	105.70
85	5	907	G	C5-C6-O6	-7.66	124.00	128.60
85	5	1280	C	N3-C4-C5	7.66	124.97	121.90
1	2	149	C	N3-C2-O2	-7.66	116.54	121.90
36	1	738	A	N1-C6-N6	-7.66	114.00	118.60
36	1	1393	A	C8-N9-C4	7.66	108.86	105.80
36	1	3197	G	N3-C4-C5	7.66	132.43	128.60
38	4	9	A	C6-N1-C2	-7.66	114.00	118.60
80	6	390	G	C5-N7-C8	-7.66	100.47	104.30
85	5	389	A	C2-N3-C4	-7.66	106.77	110.60
85	5	2321	A	N1-C6-N6	7.66	123.20	118.60
85	5	2810	C	C6-N1-C2	-7.66	117.23	120.30
36	1	560	G	N1-C6-O6	7.66	124.50	119.90
36	1	583	G	C6-N1-C2	-7.66	120.50	125.10
36	1	1723	A	C5-C6-N1	7.66	121.53	117.70
36	1	3246	G	N3-C2-N2	7.66	125.26	119.90
80	6	394	C	N3-C4-N4	7.66	123.36	118.00
85	5	244	G	N3-C2-N2	7.66	125.26	119.90
85	5	655	C	N1-C2-N3	7.66	124.56	119.20
85	5	2213	A	N1-C6-N6	-7.66	114.00	118.60
85	5	2223	A	C5-C6-N6	7.66	129.83	123.70
85	5	2576	G	C2-N3-C4	-7.66	108.07	111.90
38	8	3	A	C5-N7-C8	-7.66	100.07	103.90
36	1	272	G	C5-C6-O6	7.66	133.19	128.60
36	1	794	U	N1-C2-O2	-7.66	117.44	122.80
36	1	1138	U	N3-C4-O4	7.66	124.76	119.40
36	1	1215	U	C5-C4-O4	7.66	130.50	125.90
36	1	1373	A	O5'-P-OP1	7.66	119.89	110.70
36	1	1813	A	N3-C4-C5	-7.66	121.44	126.80
36	1	3005	A	O5'-P-OP1	-7.66	98.81	105.70
38	4	45	C	C6-N1-C2	7.66	123.36	120.30
38	4	51	G	C6-N1-C2	-7.66	120.50	125.10
80	6	358	U	C2-N3-C4	7.66	131.59	127.00
80	6	1035	G	N1-C6-O6	-7.66	115.31	119.90
85	5	24	G	C6-C5-N7	7.66	135.00	130.40
85	5	381	U	C4-C5-C6	7.66	124.30	119.70
85	5	1018	G	C2-N3-C4	7.66	115.73	111.90
85	5	1634	G	C6-C5-N7	-7.66	125.81	130.40
85	5	2648	G	N3-C4-C5	7.66	132.43	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1429	A	C8-N9-C4	-7.66	102.74	105.80
36	1	645	A	O5'-P-OP2	7.66	119.89	110.70
36	1	3002	C	N3-C4-N4	-7.66	112.64	118.00
85	5	1845	G	C6-N1-C2	-7.66	120.51	125.10
85	5	2839	G	C5-C6-O6	-7.66	124.01	128.60
85	5	2858	U	N3-C4-C5	-7.66	110.01	114.60
36	1	344	A	OP2-P-O3'	7.66	122.04	105.20
36	1	532	A	O5'-P-OP2	-7.66	98.81	105.70
36	1	937	G	C6-N1-C2	-7.66	120.51	125.10
36	1	1070	U	C5-C4-O4	7.66	130.49	125.90
36	1	2213	A	C6-N1-C2	-7.66	114.01	118.60
36	1	2761	G	C4-C5-C6	7.66	123.39	118.80
64	N8	133	LEU	CB-CG-CD1	-7.66	97.98	111.00
80	6	555	A	N7-C8-N9	7.66	117.63	113.80
80	6	571	G	N9-C4-C5	7.66	108.46	105.40
80	6	783	G	C5-N7-C8	7.66	108.13	104.30
80	6	1291	G	C5-C6-O6	7.66	133.19	128.60
85	5	379	C	N3-C4-N4	7.66	123.36	118.00
85	5	395	A	N1-C2-N3	7.66	133.13	129.30
85	5	999	G	C8-N9-C4	7.66	109.46	106.40
85	5	1032	C	C2-N3-C4	7.66	123.73	119.90
85	5	1687	U	OP1-P-OP2	7.66	131.08	119.60
36	1	57	A	O5'-P-OP1	7.65	119.89	110.70
36	1	1120	A	N3-C4-C5	-7.65	121.44	126.80
36	1	2180	G	C5-C6-O6	-7.65	124.01	128.60
85	5	93	C	C5-C4-N4	-7.65	114.84	120.20
85	5	645	A	O5'-P-OP2	-7.65	98.81	105.70
85	5	1119	C	N1-C2-O2	-7.65	114.31	118.90
85	5	1415	U	C2-N3-C4	7.65	131.59	127.00
1	2	1593	G	N1-C2-N2	-7.65	109.31	116.20
36	1	710	A	O5'-P-OP2	7.65	119.88	110.70
36	1	742	G	N3-C4-N9	-7.65	121.41	126.00
36	1	1128	U	N1-C2-O2	-7.65	117.44	122.80
36	1	2375	G	O5'-P-OP2	7.65	119.88	110.70
36	1	2424	A	C4-C5-N7	7.65	114.53	110.70
36	1	2977	G	N3-C2-N2	7.65	125.26	119.90
36	1	3150	A	N7-C8-N9	7.65	117.63	113.80
36	1	3390	G	O5'-P-OP1	-7.65	98.81	105.70
38	4	16	G	N9-C4-C5	7.65	108.46	105.40
49	M3	101	ARG	NE-CZ-NH1	7.65	124.13	120.30
85	5	330	G	N3-C2-N2	-7.65	114.54	119.90
85	5	359	U	C2-N3-C4	7.65	131.59	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	530	G	C6-C5-N7	-7.65	125.81	130.40
85	5	857	G	OP1-P-OP2	7.65	131.08	119.60
85	5	1438	U	C4-C5-C6	7.65	124.29	119.70
85	5	2430	A	C5-C6-N1	-7.65	113.87	117.70
38	8	110	C	N1-C2-O2	-7.65	114.31	118.90
36	1	326	U	N3-C4-C5	-7.65	110.01	114.60
36	1	679	U	C4-C5-C6	7.65	124.29	119.70
36	1	1663	C	C6-N1-C2	7.65	123.36	120.30
36	1	1748	G	N9-C4-C5	7.65	108.46	105.40
36	1	2737	C	N1-C2-O2	-7.65	114.31	118.90
36	1	3188	G	C4-C5-N7	7.65	113.86	110.80
37	3	22	A	OP1-P-OP2	-7.65	108.12	119.60
80	6	1346	A	C2-N3-C4	7.65	114.42	110.60
80	6	1723	U	C4-C5-C6	7.65	124.29	119.70
80	6	1740	A	N1-C6-N6	-7.65	114.01	118.60
85	5	282	G	C6-N1-C2	-7.65	120.51	125.10
85	5	523	A	C8-N9-C4	7.65	108.86	105.80
85	5	565	U	C5-C4-O4	-7.65	121.31	125.90
85	5	804	C	N3-C4-N4	7.65	123.36	118.00
85	5	1315	U	N1-C2-O2	7.65	128.16	122.80
85	5	1790	G	N1-C6-O6	7.65	124.49	119.90
85	5	2758	A	OP1-P-OP2	7.65	131.08	119.60
85	5	2934	A	C2-N3-C4	7.65	114.42	110.60
85	5	3023	U	N3-C4-C5	-7.65	110.01	114.60
85	5	3087	A	N1-C6-N6	7.65	123.19	118.60
85	5	3178	A	C5-N7-C8	7.65	107.72	103.90
38	4	1	A	N3-C4-C5	7.65	132.15	126.80
85	5	3305	A	N3-C4-C5	7.65	132.15	126.80
1	2	1299	G	C4-C5-N7	-7.65	107.74	110.80
36	1	508	U	O5'-P-OP2	7.65	119.88	110.70
36	1	1032	C	N1-C2-O2	7.65	123.49	118.90
36	1	1079	A	C8-N9-C4	-7.65	102.74	105.80
36	1	2895	G	N3-C4-C5	7.65	132.42	128.60
80	6	53	G	C2-N3-C4	-7.65	108.08	111.90
80	6	571	G	C8-N9-C4	-7.65	103.34	106.40
80	6	1574	G	C2-N3-C4	7.65	115.72	111.90
80	6	1654	G	N1-C6-O6	7.65	124.49	119.90
85	5	655	C	C2-N3-C4	-7.65	116.08	119.90
85	5	804	C	N1-C2-N3	-7.65	113.85	119.20
85	5	1592	G	C4-C5-N7	-7.65	107.74	110.80
85	5	1853	U	OP2-P-O3'	7.65	122.03	105.20
85	5	2215	A	C8-N9-C4	7.65	108.86	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	7	43	U	C5-C6-N1	-7.65	118.88	122.70
1	2	914	C	N3-C2-O2	7.65	127.25	121.90
36	1	948	C	C2-N1-C1'	-7.65	110.39	118.80
36	1	1409	G	N1-C2-N3	7.65	128.49	123.90
80	6	425	A	C5-C6-N6	-7.65	117.58	123.70
80	6	1582	U	C5-C4-O4	7.65	130.49	125.90
85	5	308	A	N1-C6-N6	7.65	123.19	118.60
85	5	397	A	C5-C6-N1	7.65	121.52	117.70
85	5	757	C	O5'-P-OP1	7.65	119.88	110.70
85	5	2294	U	OP1-P-O3'	7.65	122.02	105.20
85	5	2372	A	N1-C6-N6	-7.65	114.01	118.60
85	5	3171	U	N3-C4-O4	-7.65	114.05	119.40
37	7	99	G	N1-C2-N3	7.65	128.49	123.90
1	2	247	A	C2-N3-C4	-7.64	106.78	110.60
1	2	1102	G	N1-C2-N2	-7.64	109.32	116.20
36	1	54	C	OP1-P-OP2	7.64	131.07	119.60
36	1	779	G	C6-N1-C2	-7.64	120.51	125.10
36	1	2571	U	N1-C2-O2	7.64	128.15	122.80
80	6	1044	U	OP1-P-OP2	7.64	131.07	119.60
85	5	1462	A	OP1-P-OP2	-7.64	108.13	119.60
85	5	2158	A	N9-C4-C5	7.64	108.86	105.80
85	5	2402	A	C8-N9-C4	-7.64	102.74	105.80
1	2	356	G	C5-C6-O6	-7.64	124.02	128.60
1	2	632	U	C5-C6-N1	-7.64	118.88	122.70
36	1	2201	G	C5-C6-O6	-7.64	124.02	128.60
36	1	2203	U	C5-C6-N1	7.64	126.52	122.70
36	1	2771	U	N3-C4-C5	7.64	119.19	114.60
36	1	3265	C	N3-C2-O2	7.64	127.25	121.90
80	6	315	A	C5-N7-C8	-7.64	100.08	103.90
85	5	153	U	O5'-P-OP2	-7.64	98.82	105.70
85	5	504	A	C6-C5-N7	-7.64	126.95	132.30
85	5	715	A	N9-C4-C5	7.64	108.86	105.80
85	5	868	C	N3-C4-C5	-7.64	118.84	121.90
85	5	918	C	C2-N1-C1'	-7.64	110.39	118.80
36	1	37	U	N3-C4-O4	7.64	124.75	119.40
36	1	3368	U	C5-C4-O4	7.64	130.48	125.90
80	6	1634	C	N3-C2-O2	-7.64	116.55	121.90
85	5	606	C	O5'-P-OP2	-7.64	98.82	105.70
85	5	1176	C	C2-N3-C4	7.64	123.72	119.90
85	5	1602	A	C5-C6-N1	-7.64	113.88	117.70
85	5	2169	G	C2-N3-C4	7.64	115.72	111.90
36	1	675	C	N1-C2-O2	-7.64	114.32	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	864	G	C2-N3-C4	-7.64	108.08	111.90
36	1	951	A	N1-C2-N3	7.64	133.12	129.30
38	4	4	C	N1-C2-N3	7.64	124.55	119.20
38	4	125	U	O5'-P-OP1	-7.64	98.82	105.70
80	6	1020	A	C6-N1-C2	-7.64	114.02	118.60
80	6	1073	G	C5-C6-O6	7.64	133.18	128.60
85	5	49	A	C6-C5-N7	-7.64	126.95	132.30
85	5	982	C	C5-C6-N1	7.64	124.82	121.00
85	5	1581	C	N3-C4-N4	7.64	123.35	118.00
85	5	1660	C	N3-C4-C5	7.64	124.96	121.90
85	5	1879	A	C8-N9-C4	-7.64	102.74	105.80
85	5	2152	A	OP2-P-O3'	7.64	122.01	105.20
85	5	3031	G	OP1-P-OP2	-7.64	108.14	119.60
85	5	3113	A	N1-C6-N6	-7.64	114.02	118.60
37	7	26	C	C4-C5-C6	7.64	121.22	117.40
1	2	1250	G	C4-C5-N7	7.64	113.86	110.80
36	1	949	C	C2-N3-C4	-7.64	116.08	119.90
36	1	2845	A	O5'-P-OP2	-7.64	98.83	105.70
36	1	3021	A	N9-C4-C5	7.64	108.86	105.80
80	6	230	C	C2-N3-C4	7.64	123.72	119.90
85	5	392	G	C5-N7-C8	-7.64	100.48	104.30
36	1	340	C	C5-C6-N1	-7.64	117.18	121.00
36	1	347	G	C4-N9-C1'	7.64	136.43	126.50
36	1	755	A	C6-N1-C2	-7.64	114.02	118.60
36	1	947	G	C6-C5-N7	-7.64	125.82	130.40
36	1	960	U	C2-N1-C1'	-7.64	108.54	117.70
36	1	1595	U	N1-C2-O2	-7.64	117.45	122.80
36	1	1853	U	OP2-P-O3'	7.64	122.00	105.20
80	6	1723	U	N1-C2-N3	7.64	119.48	114.90
85	5	442	G	C2-N3-C4	7.64	115.72	111.90
85	5	1039	U	N3-C2-O2	7.64	127.55	122.20
85	5	1284	C	N3-C4-C5	7.64	124.95	121.90
37	7	46	A	N1-C2-N3	7.64	133.12	129.30
38	8	103	G	C8-N9-C4	-7.64	103.35	106.40
1	2	523	G	C2-N3-C4	-7.63	108.08	111.90
1	2	1094	G	C2-N3-C4	-7.63	108.08	111.90
1	2	1250	G	C6-C5-N7	-7.63	125.82	130.40
1	2	1454	A	C8-N9-C4	-7.63	102.75	105.80
36	1	1224	C	N3-C2-O2	-7.63	116.56	121.90
36	1	2813	A	C5-C6-N1	-7.63	113.88	117.70
85	5	192	C	OP1-P-O3'	7.63	122.00	105.20
85	5	591	G	C6-C5-N7	-7.63	125.82	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	736	A	C5-C6-N1	-7.63	113.88	117.70
85	5	878	G	C5-C6-N1	7.63	115.32	111.50
85	5	1094	U	N1-C2-O2	7.63	128.15	122.80
85	5	2195	C	C5-C6-N1	-7.63	117.18	121.00
85	5	2271	A	C5-C6-N1	7.63	121.52	117.70
85	5	2660	G	OP1-P-OP2	-7.63	108.15	119.60
85	5	2714	G	C5-N7-C8	-7.63	100.48	104.30
85	5	3103	A	C4-C5-N7	7.63	114.52	110.70
85	5	3130	A	N1-C2-N3	7.63	133.12	129.30
37	7	45	A	C2-N3-C4	7.63	114.42	110.60
36	1	277	G	C5-C6-N1	7.63	115.32	111.50
36	1	1799	A	C5-C6-N1	-7.63	113.88	117.70
36	1	2718	U	N1-C2-O2	7.63	128.14	122.80
36	1	2843	U	N1-C2-O2	7.63	128.14	122.80
80	6	390	G	N1-C6-O6	7.63	124.48	119.90
85	5	661	G	C8-N9-C4	-7.63	103.35	106.40
85	5	1691	U	N1-C2-O2	7.63	128.14	122.80
37	7	11	A	N1-C2-N3	7.63	133.12	129.30
1	2	1000	U	O5'-P-OP1	-7.63	98.83	105.70
36	1	61	A	N1-C2-N3	7.63	133.12	129.30
36	1	322	U	N1-C2-N3	7.63	119.48	114.90
36	1	1174	G	C4-C5-N7	7.63	113.85	110.80
36	1	1850	A	C2-N3-C4	-7.63	106.78	110.60
36	1	2170	U	C5-C6-N1	-7.63	118.88	122.70
36	1	2619	G	C5-N7-C8	-7.63	100.48	104.30
80	6	1653	C	N3-C4-C5	-7.63	118.85	121.90
85	5	105	C	N3-C2-O2	7.63	127.24	121.90
85	5	884	A	C2-N3-C4	-7.63	106.78	110.60
85	5	1124	U	O4'-C1'-N1	7.63	114.31	108.20
85	5	1388	U	N1-C2-O2	-7.63	117.46	122.80
85	5	2199	G	C8-N9-C4	-7.63	103.35	106.40
85	5	2850	G	N7-C8-N9	-7.63	109.28	113.10
85	5	2925	C	O5'-P-OP2	-7.63	98.83	105.70
36	1	1389	G	C4-C5-C6	-7.63	114.22	118.80
36	1	1552	G	C5-C6-N1	-7.63	107.69	111.50
85	5	321	C	C6-N1-C2	7.63	123.35	120.30
85	5	695	C	C6-N1-C1'	-7.63	111.64	120.80
85	5	833	G	C8-N9-C4	7.63	109.45	106.40
85	5	1922	A	N1-C2-N3	7.63	133.12	129.30
85	5	3118	C	C2-N3-C4	-7.63	116.08	119.90
38	8	5	U	N3-C4-O4	7.63	124.74	119.40
36	1	613	G	O5'-P-OP2	7.63	119.85	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1211	U	N1-C2-N3	7.63	119.48	114.90
36	1	1506	A	C8-N9-C4	-7.63	102.75	105.80
36	1	1512	U	OP2-P-O3'	7.63	121.98	105.20
36	1	2372	A	N1-C6-N6	7.63	123.18	118.60
80	6	456	A	N1-C2-N3	7.63	133.11	129.30
85	5	13	A	O5'-P-OP1	-7.63	98.83	105.70
85	5	28	C	N3-C2-O2	-7.63	116.56	121.90
85	5	2147	A	N3-C4-C5	-7.63	121.46	126.80
85	5	2703	A	N7-C8-N9	7.63	117.61	113.80
37	7	25	G	N1-C6-O6	-7.63	115.32	119.90
37	7	27	A	OP2-P-O3'	-7.63	88.42	105.20
1	2	433	C	C5-C6-N1	7.63	124.81	121.00
1	2	1172	A	N1-C6-N6	7.63	123.18	118.60
36	1	997	A	C8-N9-C4	-7.63	102.75	105.80
36	1	1679	A	O5'-P-OP2	7.63	119.85	110.70
36	1	2760	C	O5'-P-OP2	-7.63	98.84	105.70
36	1	3214	U	N3-C2-O2	-7.63	116.86	122.20
80	6	1280	C	N3-C4-N4	7.63	123.34	118.00
85	5	409	A	N3-C4-C5	-7.63	121.46	126.80
85	5	688	G	N3-C2-N2	-7.63	114.56	119.90
85	5	1196	C	C5-C6-N1	-7.63	117.19	121.00
85	5	1322	U	O5'-P-OP1	7.63	119.85	110.70
85	5	2794	G	C5-N7-C8	-7.63	100.49	104.30
85	5	2816	G	C5-C6-N1	-7.63	107.69	111.50
37	7	51	A	C2-N3-C4	-7.63	106.79	110.60
36	1	2192	C	C2-N3-C4	-7.62	116.09	119.90
36	1	2880	U	N1-C2-N3	7.62	119.47	114.90
80	6	459	G	N7-C8-N9	7.62	116.91	113.10
80	6	1738	U	C4-C5-C6	7.62	124.28	119.70
85	5	2306	C	C2-N3-C4	7.62	123.71	119.90
1	2	1153	G	N1-C6-O6	7.62	124.47	119.90
36	1	284	A	C4-C5-C6	7.62	120.81	117.00
36	1	1441	G	C5-C6-O6	7.62	133.18	128.60
38	4	103	G	N1-C2-N2	-7.62	109.34	116.20
80	6	1659	A	C6-C5-N7	-7.62	126.96	132.30
85	5	54	C	C5-C6-N1	-7.62	117.19	121.00
85	5	304	G	N1-C6-O6	7.62	124.47	119.90
85	5	2172	A	C6-C5-N7	-7.62	126.96	132.30
85	5	2595	A	N7-C8-N9	7.62	117.61	113.80
85	5	2623	G	N9-C4-C5	-7.62	102.35	105.40
85	5	2714	G	C5-C6-O6	-7.62	124.03	128.60
37	7	50	U	C2-N3-C4	7.62	131.57	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	833	A	N9-C4-C5	-7.62	102.75	105.80
1	2	1110	G	C5-N7-C8	7.62	108.11	104.30
1	2	1201	G	C5-C6-N1	-7.62	107.69	111.50
1	2	1643	A	N7-C8-N9	-7.62	109.99	113.80
36	1	368	G	N1-C2-N3	7.62	128.47	123.90
36	1	988	U	N1-C2-O2	-7.62	117.47	122.80
36	1	1181	U	C5-C6-N1	-7.62	118.89	122.70
36	1	2858	U	N1-C2-N3	7.62	119.47	114.90
38	4	89	A	C5-C6-N1	-7.62	113.89	117.70
80	6	622	A	O5'-P-OP1	-7.62	98.84	105.70
85	5	519	A	C5-N7-C8	-7.62	100.09	103.90
85	5	1540	U	C5-C6-N1	-7.62	118.89	122.70
85	5	1756	C	O5'-P-OP1	-7.62	98.84	105.70
85	5	1841	A	C4-C5-N7	7.62	114.51	110.70
85	5	2657	A	C8-N9-C4	-7.62	102.75	105.80
85	5	2972	G	C2-N3-C4	-7.62	108.09	111.90
85	5	3274	A	C5-C6-N6	7.62	129.80	123.70
36	1	626	U	N3-C4-C5	-7.62	110.03	114.60
36	1	1323	G	N7-C8-N9	-7.62	109.29	113.10
36	1	2805	G	N1-C2-N3	7.62	128.47	123.90
37	3	81	U	N3-C2-O2	-7.62	116.87	122.20
85	5	615	U	O5'-P-OP2	7.62	119.84	110.70
85	5	801	A	C4-C5-C6	7.62	120.81	117.00
85	5	1607	U	O5'-P-OP2	-7.62	98.84	105.70
85	5	1881	A	C8-N9-C4	-7.62	102.75	105.80
85	5	3315	G	N1-C2-N3	7.62	128.47	123.90
38	8	33	A	C6-N1-C2	-7.62	114.03	118.60
1	2	955	G	C4-C5-N7	7.62	113.85	110.80
36	1	435	C	N3-C4-C5	7.62	124.95	121.90
36	1	1287	A	C2-N3-C4	-7.62	106.79	110.60
36	1	1553	U	N3-C4-O4	7.62	124.73	119.40
36	1	2843	U	N3-C2-O2	-7.62	116.87	122.20
37	3	45	A	O5'-P-OP2	-7.62	98.84	105.70
80	6	482	U	C6-N1-C2	-7.62	116.43	121.00
80	6	1046	G	N1-C2-N2	-7.62	109.34	116.20
85	5	174	C	C6-N1-C2	7.62	123.35	120.30
85	5	539	C	OP1-P-OP2	-7.62	108.17	119.60
85	5	607	A	C2-N3-C4	-7.62	106.79	110.60
85	5	914	A	C6-C5-N7	-7.62	126.97	132.30
85	5	1157	G	N1-C6-O6	-7.62	115.33	119.90
85	5	1321	G	N3-C4-N9	-7.62	121.43	126.00
36	1	50	U	OP1-P-OP2	7.62	131.03	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	224	C	C6-N1-C2	-7.62	117.25	120.30
85	5	408	A	C5-N7-C8	7.62	107.71	103.90
85	5	1446	A	N3-C4-C5	-7.62	121.47	126.80
85	5	2228	A	OP1-P-OP2	7.62	131.03	119.60
1	2	569	C	C4-C5-C6	7.62	121.21	117.40
1	2	1292	C	C5-C6-N1	-7.62	117.19	121.00
36	1	155	G	C2-N3-C4	7.62	115.71	111.90
36	1	291	C	N1-C2-N3	7.62	124.53	119.20
36	1	2294	U	N3-C4-C5	-7.62	110.03	114.60
36	1	2355	G	N3-C4-C5	7.62	132.41	128.60
36	1	3124	G	N1-C6-O6	-7.62	115.33	119.90
80	6	110	U	C6-N1-C2	-7.62	116.43	121.00
80	6	568	G	C6-N1-C2	-7.62	120.53	125.10
85	5	77	A	OP2-P-O3'	7.62	121.95	105.20
85	5	1431	G	C4-C5-N7	7.62	113.85	110.80
85	5	1608	C	C5-C6-N1	7.62	124.81	121.00
85	5	2717	U	N1-C2-N3	7.62	119.47	114.90
85	5	3385	U	C5-C4-O4	-7.62	121.33	125.90
1	2	4	C	C5-C6-N1	7.61	124.81	121.00
1	2	866	C	N1-C2-O2	7.61	123.47	118.90
1	2	1012	U	O5'-P-OP1	-7.61	98.85	105.70
1	2	1101	G	N1-C2-N3	7.61	128.47	123.90
36	1	513	G	C6-N1-C2	-7.61	120.53	125.10
36	1	660	A	C5-C6-N1	7.61	121.51	117.70
36	1	708	G	N1-C6-O6	7.61	124.47	119.90
36	1	886	C	N3-C4-C5	7.61	124.94	121.90
36	1	895	A	C4-C5-N7	7.61	114.51	110.70
36	1	912	G	N3-C4-C5	-7.61	124.79	128.60
80	6	559	C	C5-C4-N4	7.61	125.53	120.20
80	6	1264	G	N3-C4-N9	-7.61	121.43	126.00
80	6	1513	G	N3-C4-C5	-7.61	124.79	128.60
85	5	511	G	C5-C6-O6	7.61	133.17	128.60
85	5	674	G	N1-C2-N2	7.61	123.05	116.20
85	5	1494	U	C5-C6-N1	-7.61	118.89	122.70
85	5	1634	G	C5-N7-C8	-7.61	100.49	104.30
85	5	2377	G	N1-C2-N3	7.61	128.47	123.90
85	5	2999	U	N3-C2-O2	7.61	127.53	122.20
85	5	3133	C	N1-C2-O2	-7.61	114.33	118.90
1	2	613	G	N3-C4-C5	-7.61	124.79	128.60
75	O9	45	ARG	NE-CZ-NH1	7.61	124.11	120.30
80	6	1293	U	N3-C4-O4	-7.61	114.07	119.40
1	2	464	A	N7-C8-N9	7.61	117.61	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	260	C	C2-N3-C4	7.61	123.70	119.90
36	1	815	G	N3-C4-N9	-7.61	121.43	126.00
36	1	2608	G	N3-C2-N2	-7.61	114.57	119.90
80	6	1123	C	O5'-P-OP1	7.61	119.83	110.70
85	5	726	G	N7-C8-N9	7.61	116.91	113.10
85	5	1518	U	C6-N1-C2	-7.61	116.43	121.00
85	5	1863	G	N9-C4-C5	7.61	108.44	105.40
85	5	2912	G	C4-N9-C1'	7.61	136.40	126.50
85	5	3315	G	N7-C8-N9	7.61	116.91	113.10
37	7	79	A	C8-N9-C4	7.61	108.84	105.80
1	2	1092	G	C2-N3-C4	-7.61	108.10	111.90
36	1	938	C	O5'-P-OP2	7.61	119.83	110.70
36	1	1855	U	N1-C2-N3	7.61	119.47	114.90
36	1	2389	C	C5-C4-N4	-7.61	114.87	120.20
38	4	77	A	N1-C6-N6	-7.61	114.03	118.60
85	5	1323	G	C6-N1-C2	-7.61	120.53	125.10
85	5	1519	G	N7-C8-N9	7.61	116.91	113.10
85	5	3106	A	C2-N3-C4	-7.61	106.80	110.60
85	5	3124	G	N3-C4-N9	-7.61	121.44	126.00
36	1	973	A	C5-N7-C8	7.61	107.70	103.90
36	1	1329	U	N1-C2-N3	7.61	119.46	114.90
36	1	1545	A	C2-N3-C4	7.61	114.40	110.60
36	1	1662	G	C8-N9-C4	7.61	109.44	106.40
36	1	2154	U	N3-C4-O4	7.61	124.72	119.40
36	1	2961	G	N9-C4-C5	7.61	108.44	105.40
36	1	3203	U	N3-C2-O2	7.61	127.53	122.20
80	6	473	A	N1-C2-N3	7.61	133.10	129.30
80	6	519	C	O5'-P-OP1	-7.61	98.85	105.70
80	6	1626	U	O5'-P-OP2	-7.61	98.85	105.70
85	5	197	G	N1-C6-O6	7.61	124.46	119.90
85	5	386	A	N1-C2-N3	7.61	133.10	129.30
85	5	1077	U	C5-C6-N1	-7.61	118.90	122.70
85	5	1159	A	OP1-P-O3'	7.61	121.94	105.20
85	5	1670	C	C2-N3-C4	7.61	123.70	119.90
85	5	1681	U	C5-C4-O4	7.61	130.46	125.90
85	5	1837	U	N3-C4-C5	-7.61	110.03	114.60
85	5	2127	U	N3-C4-O4	7.61	124.72	119.40
85	5	2364	G	C2-N3-C4	7.61	115.70	111.90
1	2	538	A	N3-C4-C5	7.61	132.12	126.80
1	2	775	U	N1-C2-N3	7.61	119.46	114.90
36	1	390	G	C6-C5-N7	-7.61	125.84	130.40
36	1	907	G	C5-C6-N1	7.61	115.30	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3364	C	N3-C4-N4	-7.61	112.68	118.00
41	L4	197	ARG	NE-CZ-NH1	-7.61	116.50	120.30
80	6	476	U	N1-C2-N3	7.61	119.46	114.90
80	6	1030	A	C5-C6-N1	-7.61	113.90	117.70
85	5	282	G	C4-C5-N7	7.61	113.84	110.80
85	5	1501	U	N3-C4-C5	-7.61	110.04	114.60
85	5	1652	G	N3-C2-N2	-7.61	114.58	119.90
85	5	1891	A	C6-N1-C2	-7.61	114.04	118.60
85	5	2558	U	OP1-P-OP2	7.61	131.01	119.60
85	5	3083	G	C2-N3-C4	-7.61	108.10	111.90
36	1	2232	A	O5'-P-OP2	-7.60	98.86	105.70
80	6	541	A	N7-C8-N9	7.60	117.60	113.80
80	6	801	G	N1-C6-O6	-7.60	115.34	119.90
85	5	590	G	C5-C6-N1	7.60	115.30	111.50
1	2	391	A	N1-C2-N3	-7.60	125.50	129.30
1	2	1271	G	N3-C4-C5	-7.60	124.80	128.60
1	2	1708	U	N3-C4-O4	7.60	124.72	119.40
36	1	198	A	C6-C5-N7	-7.60	126.98	132.30
36	1	1346	G	O5'-P-OP1	7.60	119.82	110.70
36	1	1574	C	C2-N3-C4	7.60	123.70	119.90
36	1	3022	G	C6-C5-N7	-7.60	125.84	130.40
85	5	530	G	N1-C2-N3	7.60	128.46	123.90
85	5	1464	G	N1-C6-O6	7.60	124.46	119.90
85	5	3216	G	N1-C6-O6	-7.60	115.34	119.90
1	2	1409	C	N3-C2-O2	7.60	127.22	121.90
36	1	319	A	O5'-P-OP1	-7.60	98.86	105.70
36	1	1100	U	N3-C4-C5	7.60	119.16	114.60
36	1	1170	A	C8-N9-C4	7.60	108.84	105.80
36	1	1343	A	C5-C6-N6	-7.60	117.62	123.70
36	1	3388	C	C6-N1-C2	7.60	123.34	120.30
85	5	638	C	C2-N3-C4	7.60	123.70	119.90
85	5	871	U	C6-N1-C2	-7.60	116.44	121.00
85	5	925	A	C5-C6-N6	-7.60	117.62	123.70
85	5	1882	G	C8-N9-C4	-7.60	103.36	106.40
76	q0	96	CYS	CA-CB-SG	7.60	127.68	114.00
1	2	1287	G	C4-C5-N7	-7.60	107.76	110.80
1	2	1773	A	C5-C6-N1	-7.60	113.90	117.70
36	1	319	A	C2-N3-C4	-7.60	106.80	110.60
36	1	751	A	C5-C6-N6	-7.60	117.62	123.70
36	1	971	G	C2-N3-C4	7.60	115.70	111.90
80	6	962	C	C4-C5-C6	7.60	121.20	117.40
80	6	1304	G	C4-C5-N7	-7.60	107.76	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	633	C	N3-C2-O2	7.60	127.22	121.90
85	5	820	A	N1-C6-N6	-7.60	114.04	118.60
85	5	1142	G	C5-C6-O6	-7.60	124.04	128.60
37	7	75	G	C6-N1-C2	7.60	129.66	125.10
38	8	23	U	C5-C6-N1	-7.60	118.90	122.70
1	2	844	U	C6-N1-C2	-7.60	116.44	121.00
1	2	1071	A	O5'-P-OP1	-7.60	98.86	105.70
36	1	351	A	C4-C5-N7	-7.60	106.90	110.70
36	1	638	C	C5-C4-N4	7.60	125.52	120.20
36	1	649	A	C6-N1-C2	-7.60	114.04	118.60
36	1	854	G	O5'-P-OP2	-7.60	98.86	105.70
36	1	961	C	N1-C2-O2	-7.60	114.34	118.90
36	1	1898	G	C5-C6-O6	-7.60	124.04	128.60
36	1	2295	A	C4-C5-N7	7.60	114.50	110.70
80	6	416	A	O5'-P-OP2	-7.60	98.86	105.70
85	5	371	G	OP1-P-OP2	7.60	131.00	119.60
85	5	1414	G	N1-C6-O6	7.60	124.46	119.90
85	5	1494	U	N3-C4-C5	-7.60	110.04	114.60
85	5	1773	C	C5-C6-N1	7.60	124.80	121.00
85	5	2396	G	N1-C2-N2	-7.60	109.36	116.20
85	5	2865	U	C5-C6-N1	7.60	126.50	122.70
85	5	3287	U	C5-C4-O4	-7.60	121.34	125.90
37	7	71	G	N7-C8-N9	-7.60	109.30	113.10
38	8	27	U	N3-C4-O4	7.60	124.72	119.40
36	1	169	U	N1-C2-N3	-7.60	110.34	114.90
36	1	596	C	C6-N1-C2	-7.60	117.26	120.30
36	1	3022	G	N3-C4-N9	7.60	130.56	126.00
85	5	1831	U	C5-C4-O4	7.60	130.46	125.90
85	5	2160	G	N7-C8-N9	-7.60	109.30	113.10
85	5	2511	A	N1-C6-N6	7.60	123.16	118.60
36	1	333	G	N3-C4-C5	7.59	132.40	128.60
36	1	2522	G	C8-N9-C4	-7.59	103.36	106.40
36	1	2907	G	N9-C4-C5	7.59	108.44	105.40
80	6	1455	G	C4-C5-N7	7.59	113.84	110.80
85	5	273	A	C5-C6-N1	-7.59	113.90	117.70
85	5	428	A	OP1-P-OP2	-7.59	108.21	119.60
85	5	1074	U	C6-N1-C2	7.59	125.56	121.00
85	5	2976	A	C6-N1-C2	-7.59	114.04	118.60
85	5	3383	G	N1-C6-O6	7.59	124.46	119.90
54	m8	111	ARG	NE-CZ-NH1	-7.59	116.50	120.30
38	4	56	G	C5-C6-O6	7.59	133.16	128.60
85	5	1868	G	C4-C5-C6	7.59	123.36	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2262	A	C5-C6-N1	7.59	121.50	117.70
85	5	2997	G	C4-C5-N7	7.59	113.84	110.80
1	2	377	G	N3-C2-N2	-7.59	114.59	119.90
1	2	551	G	C4-C5-N7	7.59	113.84	110.80
1	2	1764	A	C8-N9-C4	-7.59	102.76	105.80
36	1	214	G	N1-C2-N3	7.59	128.46	123.90
36	1	658	G	C4-C5-C6	7.59	123.35	118.80
36	1	1071	U	OP1-P-OP2	-7.59	108.21	119.60
36	1	1080	A	N1-C2-N3	7.59	133.10	129.30
85	5	32	U	C2-N3-C4	-7.59	122.44	127.00
85	5	845	G	C2-N3-C4	7.59	115.69	111.90
85	5	1330	A	C5-C6-N6	-7.59	117.63	123.70
85	5	1727	G	C5-C6-O6	7.59	133.16	128.60
85	5	2172	A	N1-C6-N6	7.59	123.16	118.60
85	5	2327	U	N1-C2-N3	-7.59	110.34	114.90
85	5	2573	G	N1-C6-O6	7.59	124.45	119.90
85	5	3067	C	N3-C4-C5	7.59	124.94	121.90
85	5	3390	G	C5-C6-O6	-7.59	124.05	128.60
38	8	48	A	C5-C6-N1	7.59	121.50	117.70
1	2	223	U	N3-C4-O4	7.59	124.71	119.40
36	1	1496	C	OP2-P-O3'	7.59	121.90	105.20
36	1	2616	C	N3-C2-O2	-7.59	116.59	121.90
67	O1	59	ILE	CG1-CB-CG2	-7.59	94.70	111.40
80	6	996	U	N1-C2-N3	7.59	119.45	114.90
80	6	1678	A	C4-C5-N7	7.59	114.50	110.70
85	5	673	U	N3-C2-O2	7.59	127.51	122.20
85	5	1406	A	O5'-P-OP2	-7.59	98.87	105.70
85	5	1520	G	N3-C4-C5	-7.59	124.81	128.60
85	5	1877	U	OP2-P-O3'	-7.59	88.50	105.20
85	5	1914	G	C4-C5-N7	-7.59	107.76	110.80
85	5	2172	A	C5-N7-C8	-7.59	100.11	103.90
85	5	2300	G	N3-C4-N9	7.59	130.55	126.00
85	5	3326	G	OP1-P-OP2	-7.59	108.22	119.60
36	1	2445	A	N1-C6-N6	-7.59	114.05	118.60
80	6	106	U	O5'-P-OP1	-7.59	98.87	105.70
80	6	1737	G	C4-C5-N7	7.59	113.83	110.80
85	5	668	G	O5'-P-OP1	7.59	119.81	110.70
1	2	1128	U	C2-N3-C4	7.59	131.55	127.00
36	1	169	U	C6-N1-C2	7.59	125.55	121.00
36	1	701	G	N3-C4-C5	-7.59	124.81	128.60
36	1	787	G	C5-N7-C8	-7.59	100.51	104.30
36	1	1128	U	C5-C6-N1	-7.59	118.91	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1201	C	C6-N1-C2	7.59	123.33	120.30
36	1	3232	G	C5-C6-O6	7.59	133.15	128.60
80	6	901	G	C5-N7-C8	-7.59	100.51	104.30
85	5	127	G	N7-C8-N9	-7.59	109.31	113.10
85	5	633	C	C4-C5-C6	7.59	121.19	117.40
85	5	873	C	N1-C2-O2	7.59	123.45	118.90
85	5	1258	U	C6-N1-C2	-7.59	116.45	121.00
85	5	1932	A	N1-C2-N3	7.59	133.09	129.30
85	5	3112	G	C8-N9-C4	-7.59	103.36	106.40
85	5	3314	A	C5-C6-N1	7.59	121.49	117.70
37	7	7	G	C5-C6-N1	-7.59	107.71	111.50
1	2	510	G	C8-N9-C4	-7.58	103.37	106.40
36	1	1092	C	C2-N3-C4	7.58	123.69	119.90
36	1	1931	U	N3-C4-C5	7.58	119.15	114.60
80	6	1719	A	O5'-P-OP2	7.58	119.80	110.70
85	5	230	U	N1-C2-O2	-7.58	117.49	122.80
85	5	503	C	N3-C2-O2	7.58	127.21	121.90
85	5	1600	U	O5'-P-OP2	7.58	119.80	110.70
85	5	2763	U	C5-C4-O4	-7.58	121.35	125.90
85	5	3020	U	N3-C2-O2	-7.58	116.89	122.20
1	2	251	A	O5'-P-OP2	7.58	119.80	110.70
1	2	1029	G	N1-C6-O6	-7.58	115.35	119.90
1	2	1548	C	N3-C4-C5	-7.58	118.87	121.90
36	1	20	A	N9-C4-C5	7.58	108.83	105.80
36	1	898	U	O5'-P-OP1	7.58	119.80	110.70
36	1	1164	G	N1-C2-N3	7.58	128.45	123.90
36	1	1884	A	C5-C6-N6	7.58	129.77	123.70
36	1	2395	G	N3-C2-N2	-7.58	114.59	119.90
36	1	2732	G	C5-N7-C8	-7.58	100.51	104.30
80	6	143	G	N7-C8-N9	7.58	116.89	113.10
80	6	336	G	O5'-P-OP2	-7.58	98.88	105.70
80	6	426	G	C8-N9-C1'	-7.58	117.14	127.00
80	6	1413	U	N3-C2-O2	7.58	127.51	122.20
85	5	704	U	O5'-P-OP1	-7.58	98.88	105.70
85	5	1464	G	C8-N9-C4	7.58	109.43	106.40
85	5	1662	G	C4-N9-C1'	7.58	136.36	126.50
85	5	1862	U	OP1-P-OP2	7.58	130.98	119.60
85	5	1934	G	C4-N9-C1'	7.58	136.36	126.50
85	5	2212	C	N1-C2-O2	7.58	123.45	118.90
85	5	2290	C	C4-C5-C6	7.58	121.19	117.40
85	5	2432	A	C4-C5-C6	7.58	120.79	117.00
85	5	2698	G	C6-C5-N7	7.58	134.95	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2904	U	N3-C2-O2	-7.58	116.89	122.20
85	5	3004	C	OP2-P-O3'	7.58	121.89	105.20
38	8	76	C	OP1-P-OP2	-7.58	108.22	119.60
1	2	1263	C	C6-N1-C2	-7.58	117.27	120.30
36	1	22	G	N3-C4-C5	-7.58	124.81	128.60
36	1	193	C	N3-C4-N4	7.58	123.31	118.00
36	1	603	A	O5'-P-OP1	-7.58	98.88	105.70
36	1	820	A	C4-C5-C6	-7.58	113.21	117.00
36	1	1079	A	C6-N1-C2	-7.58	114.05	118.60
36	1	1414	G	C6-C5-N7	-7.58	125.85	130.40
36	1	1933	A	C4-C5-C6	7.58	120.79	117.00
36	1	2401	A	N9-C4-C5	-7.58	102.77	105.80
36	1	2693	C	C2-N3-C4	-7.58	116.11	119.90
37	3	33	U	C4-C5-C6	7.58	124.25	119.70
80	6	18	C	C2-N3-C4	7.58	123.69	119.90
80	6	886	U	C5-C6-N1	7.58	126.49	122.70
80	6	1665	U	C6-N1-C2	7.58	125.55	121.00
85	5	37	U	N3-C2-O2	-7.58	116.89	122.20
85	5	670	C	N3-C4-C5	-7.58	118.87	121.90
85	5	929	A	C6-N1-C2	-7.58	114.05	118.60
85	5	1412	G	N1-C2-N3	7.58	128.45	123.90
85	5	1676	A	C8-N9-C4	-7.58	102.77	105.80
36	1	577	C	C4-C5-C6	7.58	121.19	117.40
36	1	1843	C	O5'-P-OP2	-7.58	98.88	105.70
36	1	2599	U	C4-C5-C6	7.58	124.25	119.70
80	6	185	U	C6-N1-C2	7.58	125.55	121.00
80	6	273	G	C5-N7-C8	-7.58	100.51	104.30
85	5	1897	G	C2-N3-C4	-7.58	108.11	111.90
85	5	2761	G	N9-C4-C5	-7.58	102.37	105.40
1	2	800	A	C2-N3-C4	-7.58	106.81	110.60
36	1	236	G	C5-C6-N1	7.58	115.29	111.50
36	1	510	G	C5-N7-C8	-7.58	100.51	104.30
36	1	2575	G	C6-N1-C2	7.58	129.65	125.10
38	4	97	A	C6-N1-C2	-7.58	114.05	118.60
85	5	222	A	C6-N1-C2	-7.58	114.05	118.60
85	5	1465	A	C2-N3-C4	-7.58	106.81	110.60
85	5	3319	U	C2-N3-C4	-7.58	122.45	127.00
37	7	4	U	N1-C2-O2	7.58	128.11	122.80
36	1	360	G	N3-C4-N9	7.58	130.55	126.00
36	1	3302	U	N3-C4-O4	-7.58	114.10	119.40
85	5	22	G	C5-C6-O6	-7.58	124.05	128.60
85	5	1303	A	C5-C6-N6	-7.58	117.64	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1407	A	C5-C6-N1	-7.58	113.91	117.70
37	7	116	C	OP1-P-OP2	-7.58	108.23	119.60
38	8	87	G	N1-C6-O6	-7.58	115.35	119.90
36	1	86	G	O5'-P-OP1	7.58	119.79	110.70
36	1	233	C	OP1-P-OP2	-7.58	108.24	119.60
36	1	327	A	C5-C6-N1	7.58	121.49	117.70
36	1	506	U	N3-C2-O2	7.58	127.50	122.20
36	1	1417	G	N9-C4-C5	-7.58	102.37	105.40
36	1	1486	G	C6-N1-C2	-7.58	120.55	125.10
36	1	1521	G	N1-C6-O6	7.58	124.45	119.90
36	1	2632	G	OP1-P-O3'	7.58	121.87	105.20
36	1	3192	U	N3-C4-C5	-7.58	110.06	114.60
36	1	3266	G	C5-C6-O6	7.58	133.15	128.60
80	6	1317	C	N3-C4-C5	7.58	124.93	121.90
80	6	1372	U	C4-C5-C6	7.58	124.25	119.70
80	6	1752	U	C6-N1-C2	-7.58	116.45	121.00
85	5	364	G	O5'-P-OP2	7.58	119.79	110.70
85	5	660	A	C5-C6-N6	7.58	129.76	123.70
85	5	2331	C	N1-C2-O2	-7.58	114.35	118.90
85	5	2656	A	N3-C4-N9	-7.58	121.34	127.40
85	5	2914	G	C4-C5-N7	7.58	113.83	110.80
52	m6	84	LEU	CB-CG-CD2	-7.58	98.12	111.00
1	2	216	U	N1-C2-O2	-7.57	117.50	122.80
1	2	447	U	C5-C6-N1	7.57	126.49	122.70
36	1	1323	G	N1-C2-N2	-7.57	109.38	116.20
36	1	2225	U	N1-C2-N3	7.57	119.44	114.90
85	5	812	G	C8-N9-C4	-7.57	103.37	106.40
85	5	1321	G	C5-N7-C8	-7.57	100.51	104.30
85	5	2608	G	C4-C5-C6	7.57	123.34	118.80
85	5	3060	C	C6-N1-C2	-7.57	117.27	120.30
37	7	51	A	N1-C2-N3	7.57	133.09	129.30
53	m7	48	LEU	CB-CG-CD2	-7.57	98.12	111.00
36	1	402	A	N1-C2-N3	7.57	133.09	129.30
36	1	2961	G	N7-C8-N9	7.57	116.89	113.10
80	6	94	U	N1-C2-N3	7.57	119.44	114.90
80	6	951	A	N1-C2-N3	7.57	133.09	129.30
47	m0	128	ARG	NE-CZ-NH1	-7.57	116.51	120.30
1	2	978	A	N1-C2-N3	7.57	133.09	129.30
36	1	148	G	N3-C4-C5	-7.57	124.81	128.60
36	1	2377	G	C5-N7-C8	-7.57	100.51	104.30
36	1	2688	U	C6-N1-C2	7.57	125.54	121.00
38	4	144	G	N1-C6-O6	-7.57	115.36	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	28	A	OP1-P-O3'	7.57	121.86	105.20
80	6	1064	G	C5-C6-O6	-7.57	124.06	128.60
85	5	594	U	N3-C4-O4	7.57	124.70	119.40
85	5	1379	G	N9-C4-C5	-7.57	102.37	105.40
85	5	1900	A	N1-C6-N6	7.57	123.14	118.60
85	5	1920	U	OP1-P-OP2	7.57	130.96	119.60
85	5	2124	G	C6-N1-C2	7.57	129.64	125.10
85	5	2395	G	OP1-P-OP2	-7.57	108.24	119.60
85	5	3053	G	N1-C6-O6	7.57	124.44	119.90
1	2	436	A	C8-N9-C4	-7.57	102.77	105.80
36	1	101	G	C2-N3-C4	-7.57	108.12	111.90
36	1	336	A	C4-C5-C6	-7.57	113.22	117.00
36	1	1019	G	C4-C5-N7	7.57	113.83	110.80
36	1	1501	U	O5'-P-OP1	7.57	119.78	110.70
37	3	67	G	C2-N3-C4	-7.57	108.11	111.90
80	6	1097	U	P-O3'-C3'	7.57	128.78	119.70
85	5	195	U	OP1-P-O3'	7.57	121.85	105.20
85	5	1542	G	C8-N9-C4	-7.57	103.37	106.40
85	5	1709	C	N3-C4-N4	-7.57	112.70	118.00
85	5	2353	G	OP1-P-OP2	-7.57	108.25	119.60
85	5	2778	G	C5-C6-N1	7.57	115.28	111.50
85	5	3374	U	O5'-P-OP2	-7.57	98.89	105.70
36	1	895	A	N1-C6-N6	7.57	123.14	118.60
36	1	1502	C	C4-C5-C6	7.57	121.18	117.40
36	1	2373	A	C5-C6-N6	7.57	129.75	123.70
36	1	3074	G	C6-N1-C2	7.57	129.64	125.10
38	4	82	U	N3-C2-O2	7.57	127.50	122.20
80	6	324	U	C2-N3-C4	7.57	131.54	127.00
80	6	425	A	N1-C2-N3	-7.57	125.52	129.30
80	6	761	G	N1-C2-N2	-7.57	109.39	116.20
85	5	98	G	C5-N7-C8	-7.57	100.52	104.30
85	5	652	G	O5'-P-OP2	7.57	119.78	110.70
85	5	1307	G	C5-C6-N1	7.57	115.28	111.50
85	5	1601	U	C5-C4-O4	7.57	130.44	125.90
85	5	2594	C	OP1-P-O3'	7.57	121.85	105.20
37	7	9	C	OP1-P-OP2	-7.57	108.25	119.60
1	2	64	U	N3-C2-O2	7.57	127.50	122.20
36	1	135	C	C6-N1-C2	-7.57	117.27	120.30
36	1	252	U	N1-C2-O2	7.57	128.10	122.80
36	1	281	G	N1-C2-N3	7.57	128.44	123.90
36	1	291	C	N1-C2-O2	-7.57	114.36	118.90
36	1	897	U	C5-C4-O4	7.57	130.44	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	957	C	OP1-P-OP2	7.57	130.95	119.60
36	1	1598	G	N1-C2-N3	7.57	128.44	123.90
36	1	1727	G	C8-N9-C4	-7.57	103.37	106.40
36	1	1921	A	N9-C4-C5	7.57	108.83	105.80
80	6	565	C	N1-C2-O2	-7.57	114.36	118.90
80	6	1649	G	C4-C5-C6	-7.57	114.26	118.80
85	5	781	G	OP1-P-O3'	7.57	121.84	105.20
85	5	841	A	N9-C4-C5	-7.57	102.77	105.80
36	1	2713	U	C5-C4-O4	-7.56	121.36	125.90
36	1	2943	G	C2-N3-C4	-7.56	108.12	111.90
85	5	1695	U	C6-N1-C2	-7.56	116.46	121.00
85	5	2673	A	C8-N9-C4	7.56	108.83	105.80
85	5	2734	A	N1-C2-N3	7.56	133.08	129.30
85	5	3331	U	C5-C4-O4	-7.56	121.36	125.90
37	7	48	U	N3-C4-C5	-7.56	110.06	114.60
1	2	848	A	C2-N3-C4	-7.56	106.82	110.60
36	1	1829	G	C4-C5-N7	-7.56	107.78	110.80
36	1	2293	C	C4-C5-C6	-7.56	113.62	117.40
36	1	2331	C	N3-C4-C5	7.56	124.92	121.90
36	1	2734	A	C8-N9-C4	-7.56	102.78	105.80
38	4	83	C	N3-C2-O2	7.56	127.19	121.90
80	6	1023	A	N1-C6-N6	7.56	123.14	118.60
85	5	398	A	C8-N9-C4	7.56	108.83	105.80
85	5	823	C	C6-N1-C2	7.56	123.33	120.30
85	5	1285	G	N3-C4-N9	7.56	130.54	126.00
85	5	3200	G	C2-N3-C4	-7.56	108.12	111.90
1	2	1789	A	C2-N3-C4	7.56	114.38	110.60
36	1	53	G	OP1-P-OP2	7.56	130.94	119.60
36	1	1426	C	N3-C4-N4	-7.56	112.71	118.00
36	1	2734	A	N1-C6-N6	-7.56	114.06	118.60
36	1	3011	A	C4-C5-N7	-7.56	106.92	110.70
80	6	627	C	N3-C4-N4	7.56	123.29	118.00
85	5	555	U	N3-C2-O2	7.56	127.49	122.20
85	5	943	U	O5'-P-OP1	-7.56	98.89	105.70
85	5	1465	A	C5-C6-N6	7.56	129.75	123.70
85	5	2795	U	C5-C6-N1	7.56	126.48	122.70
1	2	789	A	N9-C4-C5	7.56	108.82	105.80
36	1	212	G	C5-C6-N1	7.56	115.28	111.50
36	1	426	G	N1-C6-O6	-7.56	115.36	119.90
36	1	887	G	C4-C5-N7	-7.56	107.78	110.80
36	1	1207	G	N3-C2-N2	-7.56	114.61	119.90
36	1	1560	G	N1-C6-O6	-7.56	115.36	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2207	A	N1-C2-N3	-7.56	125.52	129.30
36	1	2580	A	C4-C5-N7	-7.56	106.92	110.70
36	1	3049	A	N1-C6-N6	7.56	123.14	118.60
80	6	465	G	C5-C6-N1	-7.56	107.72	111.50
85	5	59	G	C4-C5-N7	7.56	113.82	110.80
85	5	274	G	C8-N9-C4	7.56	109.42	106.40
85	5	1129	A	C6-C5-N7	-7.56	127.01	132.30
85	5	1749	A	C5-C6-N6	-7.56	117.65	123.70
85	5	2428	U	N3-C4-O4	7.56	124.69	119.40
85	5	3249	C	C5-C4-N4	-7.56	114.91	120.20
37	7	22	A	OP1-P-O3'	7.56	121.83	105.20
1	2	1302	A	C5-N7-C8	-7.56	100.12	103.90
1	2	1615	C	N3-C4-C5	-7.56	118.88	121.90
36	1	223	U	O5'-P-OP2	-7.56	98.90	105.70
36	1	1588	A	C8-N9-C4	7.56	108.82	105.80
80	6	522	U	N3-C4-C5	7.56	119.13	114.60
85	5	632	G	C5-C6-N1	7.56	115.28	111.50
85	5	1512	U	C4-C5-C6	7.56	124.23	119.70
85	5	3124	G	C5-N7-C8	-7.56	100.52	104.30
37	7	28	C	C2-N3-C4	-7.56	116.12	119.90
36	1	10	C	N3-C2-O2	7.56	127.19	121.90
36	1	2847	A	C5-N7-C8	-7.56	100.12	103.90
80	6	1120	U	C4-C5-C6	7.56	124.23	119.70
85	5	739	G	C8-N9-C4	7.56	109.42	106.40
85	5	1116	G	N3-C4-C5	-7.56	124.82	128.60
85	5	1837	U	N1-C2-O2	-7.56	117.51	122.80
1	2	594	A	C4-C5-N7	-7.55	106.92	110.70
1	2	594	A	C5-C6-N1	7.55	121.48	117.70
1	2	1516	C	C4-C5-C6	7.55	121.18	117.40
36	1	518	G	C2-N3-C4	-7.55	108.12	111.90
36	1	1432	C	N1-C2-O2	7.55	123.43	118.90
36	1	1871	U	C2-N3-C4	-7.55	122.47	127.00
36	1	2515	A	N1-C6-N6	-7.55	114.07	118.60
36	1	2590	A	C5-C6-N1	7.55	121.48	117.70
36	1	2725	U	N1-C2-O2	7.55	128.09	122.80
36	1	3187	A	OP1-P-O3'	7.55	121.82	105.20
80	6	548	G	C8-N9-C4	-7.55	103.38	106.40
85	5	2880	U	N3-C2-O2	-7.55	116.91	122.20
36	1	702	C	C5-C6-N1	7.55	124.78	121.00
36	1	2871	G	C4-C5-N7	7.55	113.82	110.80
36	1	3388	C	N3-C2-O2	-7.55	116.61	121.90
37	7	74	C	N1-C2-O2	7.55	123.43	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	401	A	C2-N3-C4	7.55	114.38	110.60
36	1	682	U	C5-C4-O4	7.55	130.43	125.90
36	1	693	A	C6-C5-N7	-7.55	127.01	132.30
36	1	2237	C	N3-C2-O2	-7.55	116.61	121.90
36	1	2663	G	N1-C2-N3	7.55	128.43	123.90
36	1	3084	C	C2-N3-C4	-7.55	116.12	119.90
36	1	3191	G	C5-C6-N1	-7.55	107.72	111.50
80	6	107	C	O5'-P-OP2	-7.55	98.90	105.70
85	5	354	U	N3-C2-O2	7.55	127.49	122.20
85	5	436	A	OP1-P-OP2	-7.55	108.27	119.60
85	5	499	G	N1-C2-N3	7.55	128.43	123.90
85	5	1070	U	N3-C4-O4	-7.55	114.11	119.40
85	5	1480	G	C5-C6-O6	-7.55	124.07	128.60
85	5	1495	U	C2-N3-C4	-7.55	122.47	127.00
85	5	1899	G	N3-C2-N2	-7.55	114.61	119.90
85	5	2147	A	OP1-P-OP2	-7.55	108.27	119.60
85	5	2520	A	C5-N7-C8	-7.55	100.12	103.90
85	5	2607	G	N1-C2-N2	7.55	123.00	116.20
38	8	19	C	C6-N1-C2	-7.55	117.28	120.30
1	2	1297	U	N1-C2-N3	7.55	119.43	114.90
36	1	2874	G	C4-C5-C6	7.55	123.33	118.80
36	1	3177	G	N1-C2-N3	-7.55	119.37	123.90
38	4	144	G	N3-C2-N2	-7.55	114.61	119.90
80	6	394	C	N3-C2-O2	7.55	127.19	121.90
85	5	188	U	C5-C4-O4	-7.55	121.37	125.90
85	5	1875	G	C6-N1-C2	-7.55	120.57	125.10
85	5	2255	A	O5'-P-OP1	-7.55	98.91	105.70
85	5	2793	G	C5-C6-N1	-7.55	107.72	111.50
85	5	3073	A	C5-C6-N6	-7.55	117.66	123.70
1	2	1116	A	N1-C6-N6	-7.55	114.07	118.60
1	2	1206	A	C8-N9-C4	7.55	108.82	105.80
36	1	1114	U	OP2-P-O3'	7.55	121.81	105.20
36	1	2223	A	N1-C2-N3	7.55	133.07	129.30
36	1	2670	G	N1-C2-N3	7.55	128.43	123.90
36	1	2955	U	OP2-P-O3'	7.55	121.81	105.20
85	5	2615	G	N1-C2-N2	7.55	122.99	116.20
85	5	3040	A	C8-N9-C4	7.55	108.82	105.80
38	8	48	A	C4-C5-C6	-7.55	113.23	117.00
1	2	339	C	N1-C2-O2	-7.55	114.37	118.90
1	2	390	G	C5-C6-O6	-7.55	124.07	128.60
36	1	547	G	C4-C5-N7	7.55	113.82	110.80
36	1	1150	A	C6-N1-C2	-7.55	114.07	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1318	A	N9-C4-C5	7.55	108.82	105.80
36	1	2413	A	C5-N7-C8	-7.55	100.13	103.90
80	6	461	G	C8-N9-C4	7.55	109.42	106.40
80	6	1075	C	N1-C2-O2	-7.55	114.37	118.90
80	6	1112	G	N1-C2-N3	7.55	128.43	123.90
85	5	979	U	N3-C2-O2	7.55	127.48	122.20
85	5	2196	C	C5-C6-N1	7.55	124.77	121.00
85	5	2944	U	OP1-P-OP2	-7.55	108.28	119.60
36	1	71	A	C4-C5-N7	-7.54	106.93	110.70
36	1	913	A	N7-C8-N9	7.54	117.57	113.80
36	1	1850	A	N1-C6-N6	-7.54	114.07	118.60
36	1	2291	A	C6-N1-C2	-7.54	114.07	118.60
36	1	2824	G	C6-N1-C2	7.54	129.63	125.10
80	6	312	A	N7-C8-N9	7.54	117.57	113.80
80	6	358	U	C4-C5-C6	7.54	124.23	119.70
85	5	60	A	O5'-P-OP1	-7.54	98.91	105.70
85	5	1590	G	C5-N7-C8	-7.54	100.53	104.30
85	5	1784	G	C4-C5-N7	-7.54	107.78	110.80
85	5	2330	C	O5'-P-OP2	-7.54	98.91	105.70
85	5	2600	C	N3-C2-O2	-7.54	116.62	121.90
85	5	2662	G	N9-C4-C5	7.54	108.42	105.40
85	5	2900	A	C5-C6-N6	7.54	129.74	123.70
38	8	114	G	N3-C4-C5	7.54	132.37	128.60
1	2	324	U	C5-C6-N1	-7.54	118.93	122.70
36	1	115	A	C5-C6-N1	7.54	121.47	117.70
36	1	1156	C	N3-C4-C5	7.54	124.92	121.90
36	1	2254	U	N1-C2-O2	-7.54	117.52	122.80
36	1	2667	A	C2-N3-C4	-7.54	106.83	110.60
37	3	17	A	C2-N3-C4	-7.54	106.83	110.60
80	6	651	G	N9-C4-C5	-7.54	102.38	105.40
85	5	1454	A	C4-C5-N7	7.54	114.47	110.70
85	5	2918	G	C4-C5-N7	-7.54	107.78	110.80
1	2	354	C	C6-N1-C2	-7.54	117.28	120.30
1	2	1099	A	C5-C6-N6	-7.54	117.67	123.70
1	2	1346	U	C5-C6-N1	7.54	126.47	122.70
36	1	32	U	OP1-P-OP2	-7.54	108.29	119.60
36	1	237	G	N9-C4-C5	-7.54	102.38	105.40
36	1	259	C	N1-C2-O2	7.54	123.42	118.90
36	1	650	C	C4-C5-C6	-7.54	113.63	117.40
36	1	1448	U	C5-C4-O4	7.54	130.43	125.90
36	1	1496	C	C6-N1-C2	-7.54	117.28	120.30
38	4	17	A	OP1-P-OP2	-7.54	108.29	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	206	A	OP1-P-OP2	-7.54	108.29	119.60
80	6	586	G	C5-N7-C8	7.54	108.07	104.30
80	6	1011	G	C8-N9-C4	-7.54	103.38	106.40
80	6	1765	A	N1-C2-N3	7.54	133.07	129.30
85	5	528	U	N3-C2-O2	-7.54	116.92	122.20
85	5	1120	A	C5-C6-N1	7.54	121.47	117.70
85	5	2566	C	C5-C6-N1	7.54	124.77	121.00
85	5	3154	C	C2-N3-C4	7.54	123.67	119.90
38	8	150	G	C5-C6-O6	7.54	133.12	128.60
1	2	1533	A	C2-N3-C4	7.54	114.37	110.60
36	1	330	G	C8-N9-C4	7.54	109.42	106.40
36	1	948	C	C4-C5-C6	7.54	121.17	117.40
36	1	1407	A	C6-N1-C2	-7.54	114.08	118.60
36	1	2963	C	C5-C6-N1	7.54	124.77	121.00
36	1	3177	G	N7-C8-N9	-7.54	109.33	113.10
85	5	117	U	N1-C2-N3	-7.54	110.38	114.90
85	5	751	A	C2-N3-C4	-7.54	106.83	110.60
85	5	1104	G	N9-C4-C5	7.54	108.42	105.40
85	5	1773	C	O5'-P-OP2	-7.54	98.91	105.70
1	2	536	C	C5-C6-N1	7.54	124.77	121.00
1	2	1506	G	C5-C6-N1	7.54	115.27	111.50
36	1	661	G	C2-N3-C4	-7.54	108.13	111.90
36	1	854	G	C4-C5-C6	7.54	123.32	118.80
80	6	1175	U	O5'-P-OP1	-7.54	98.92	105.70
85	5	174	C	N3-C4-N4	-7.54	112.72	118.00
85	5	2280	A	C6-N1-C2	-7.54	114.08	118.60
85	5	2945	G	C8-N9-C4	7.54	109.42	106.40
85	5	2952	G	C4-C5-N7	7.54	113.82	110.80
1	2	284	G	C8-N9-C4	7.54	109.42	106.40
36	1	660	A	OP1-P-OP2	7.54	130.91	119.60
36	1	2338	C	C6-N1-C2	7.54	123.31	120.30
85	5	376	G	N7-C8-N9	7.54	116.87	113.10
85	5	1146	C	N3-C4-N4	7.54	123.28	118.00
1	2	157	A	OP1-P-OP2	7.54	130.90	119.60
36	1	286	U	N3-C4-C5	-7.54	110.08	114.60
36	1	891	G	N9-C4-C5	-7.54	102.39	105.40
36	1	960	U	N3-C4-C5	7.54	119.12	114.60
80	6	34	G	O5'-P-OP2	-7.54	98.92	105.70
80	6	47	A	N1-C2-N3	-7.54	125.53	129.30
80	6	830	U	N3-C2-O2	-7.54	116.92	122.20
85	5	779	G	C5-C6-O6	-7.54	124.08	128.60
85	5	1727	G	N3-C2-N2	7.54	125.17	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	813	U	C6-N1-C2	-7.53	116.48	121.00
36	1	917	A	C6-C5-N7	7.53	137.57	132.30
36	1	1037	C	OP1-P-OP2	-7.53	108.30	119.60
36	1	2226	U	N3-C2-O2	7.53	127.47	122.20
36	1	2246	G	N1-C6-O6	-7.53	115.38	119.90
36	1	2771	U	N1-C2-O2	7.53	128.07	122.80
36	1	3004	C	N1-C2-N3	-7.53	113.93	119.20
36	1	3337	G	C2-N3-C4	-7.53	108.13	111.90
80	6	1781	A	N7-C8-N9	7.53	117.57	113.80
85	5	413	U	OP1-P-O3'	7.53	121.77	105.20
85	5	1673	G	N1-C6-O6	-7.53	115.38	119.90
85	5	1898	G	N9-C4-C5	7.53	108.41	105.40
85	5	2116	G	C4-C5-C6	7.53	123.32	118.80
85	5	2272	G	C6-N1-C2	-7.53	120.58	125.10
85	5	2973	G	C5-C6-O6	7.53	133.12	128.60
85	5	3070	A	N7-C8-N9	7.53	117.57	113.80
85	5	3177	G	N3-C4-N9	-7.53	121.48	126.00
37	7	5	G	N7-C8-N9	-7.53	109.33	113.10
37	7	91	G	C4-C5-C6	7.53	123.32	118.80
1	2	1761	G	C5-N7-C8	-7.53	100.53	104.30
80	6	1761	U	N1-C2-O2	-7.53	117.53	122.80
85	5	1823	A	C8-N9-C4	-7.53	102.79	105.80
85	5	2251	G	C8-N9-C4	-7.53	103.39	106.40
1	2	228	G	C4-C5-N7	7.53	113.81	110.80
36	1	2279	A	N9-C4-C5	7.53	108.81	105.80
36	1	2888	U	OP1-P-O3'	7.53	121.77	105.20
80	6	312	A	C5-N7-C8	-7.53	100.13	103.90
85	5	716	A	O5'-P-OP2	-7.53	98.92	105.70
85	5	1601	U	N3-C4-C5	-7.53	110.08	114.60
85	5	2337	C	C4-C5-C6	7.53	121.17	117.40
85	5	2643	A	C6-C5-N7	-7.53	127.03	132.30
85	5	2713	U	C5-C4-O4	-7.53	121.38	125.90
85	5	3080	G	C8-N9-C4	7.53	109.41	106.40
36	1	339	C	N3-C2-O2	7.53	127.17	121.90
36	1	826	G	O5'-P-OP1	-7.53	98.92	105.70
36	1	2141	U	N3-C4-O4	-7.53	114.13	119.40
37	3	63	A	N1-C6-N6	-7.53	114.08	118.60
85	5	2145	A	C4-C5-N7	7.53	114.46	110.70
85	5	2756	C	N1-C2-N3	7.53	124.47	119.20
38	8	135	G	C8-N9-C4	7.53	109.41	106.40
1	2	1636	C	N3-C4-C5	-7.53	118.89	121.90
36	1	878	G	N1-C2-N3	7.53	128.42	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2095	G	C2-N3-C4	7.53	115.66	111.90
36	1	3103	A	O5'-P-OP1	7.53	119.73	110.70
40	L3	150	ARG	NE-CZ-NH2	-7.53	116.54	120.30
80	6	357	G	C5-C6-N1	-7.53	107.74	111.50
80	6	402	C	C2-N3-C4	-7.53	116.14	119.90
80	6	588	U	N3-C4-O4	7.53	124.67	119.40
80	6	923	A	N3-C4-C5	7.53	132.07	126.80
85	5	49	A	C5-N7-C8	-7.53	100.14	103.90
85	5	360	G	C5-C6-N1	-7.53	107.74	111.50
85	5	1400	G	OP1-P-OP2	7.53	130.89	119.60
85	5	2791	G	N3-C2-N2	-7.53	114.63	119.90
85	5	3085	G	N3-C4-N9	-7.53	121.48	126.00
38	8	77	A	C2-N3-C4	-7.53	106.84	110.60
91	p	75	C	N1-C2-N3	-7.53	113.93	119.20
36	1	558	U	N3-C2-O2	-7.53	116.93	122.20
36	1	971	G	O5'-P-OP2	-7.53	98.93	105.70
36	1	3301	U	C4-C5-C6	7.53	124.22	119.70
36	1	3386	G	C5-C6-O6	-7.53	124.08	128.60
37	3	51	A	N1-C6-N6	7.53	123.11	118.60
80	6	33	U	N1-C2-N3	7.53	119.42	114.90
80	6	90	C	C2-N3-C4	-7.53	116.14	119.90
80	6	636	A	N7-C8-N9	-7.53	110.04	113.80
80	6	1073	G	C2-N3-C4	-7.53	108.14	111.90
80	6	1720	G	C4-C5-N7	7.53	113.81	110.80
85	5	64	G	OP2-P-O3'	7.53	121.76	105.20
85	5	741	U	C5-C4-O4	7.53	130.41	125.90
85	5	936	A	C8-N9-C4	-7.53	102.79	105.80
85	5	2262	A	O5'-P-OP2	-7.53	98.93	105.70
85	5	2773	C	N1-C2-O2	-7.53	114.39	118.90
85	5	2944	U	N3-C4-C5	-7.53	110.08	114.60
85	5	3025	C	C6-N1-C2	7.53	123.31	120.30
85	5	3050	U	C6-N1-C2	-7.53	116.48	121.00
85	5	3335	A	O5'-P-OP2	-7.53	98.93	105.70
38	8	108	C	N3-C4-C5	-7.53	118.89	121.90
1	2	78	A	C2-N3-C4	7.52	114.36	110.60
1	2	827	A	C5-N7-C8	-7.52	100.14	103.90
36	1	402	A	C4-C5-N7	-7.52	106.94	110.70
36	1	909	G	N1-C2-N3	7.52	128.41	123.90
36	1	2790	A	O5'-P-OP1	7.52	119.73	110.70
36	1	3389	U	N3-C2-O2	-7.52	116.93	122.20
85	5	1012	G	N3-C4-N9	-7.52	121.49	126.00
1	2	309	C	N3-C2-O2	-7.52	116.63	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	476	U	C6-N1-C2	-7.52	116.49	121.00
1	2	1710	G	C6-C5-N7	-7.52	125.89	130.40
36	1	196	G	OP1-P-O3'	7.52	121.75	105.20
38	4	17	A	OP2-P-O3'	-7.52	88.65	105.20
80	6	1040	G	C8-N9-C4	-7.52	103.39	106.40
85	5	283	G	N1-C2-N3	-7.52	119.39	123.90
85	5	808	A	C5-N7-C8	-7.52	100.14	103.90
85	5	1085	A	C5-N7-C8	-7.52	100.14	103.90
62	n6	6	LEU	O-C-N	7.52	134.74	122.70
1	2	573	C	C2-N3-C4	-7.52	116.14	119.90
36	1	1745	C	N1-C2-O2	-7.52	114.39	118.90
80	6	396	G	N3-C2-N2	7.52	125.17	119.90
85	5	668	G	N3-C4-C5	-7.52	124.84	128.60
70	o4	74	ARG	NE-CZ-NH1	-7.52	116.54	120.30
1	2	92	A	N1-C6-N6	-7.52	114.09	118.60
1	2	1404	A	N1-C6-N6	-7.52	114.09	118.60
36	1	85	A	C4-C5-C6	7.52	120.76	117.00
36	1	708	G	C5-C6-N1	-7.52	107.74	111.50
36	1	794	U	N3-C2-O2	7.52	127.46	122.20
36	1	1307	G	P-O3'-C3'	7.52	128.72	119.70
36	1	1829	G	C4-C5-C6	7.52	123.31	118.80
38	4	146	U	C5-C4-O4	7.52	130.41	125.90
62	N6	40	ARG	NE-CZ-NH2	-7.52	116.54	120.30
80	6	403	G	N1-C6-O6	7.52	124.41	119.90
85	5	1880	U	OP2-P-O3'	7.52	121.74	105.20
37	7	14	U	N1-C2-O2	-7.52	117.54	122.80
1	2	1005	C	C6-N1-C2	-7.52	117.29	120.30
36	1	272	G	OP1-P-OP2	7.52	130.88	119.60
36	1	933	A	N1-C2-N3	7.52	133.06	129.30
36	1	1480	G	OP2-P-O3'	7.52	121.74	105.20
36	1	2249	G	N1-C2-N2	-7.52	109.43	116.20
36	1	2623	G	OP1-P-OP2	-7.52	108.32	119.60
36	1	3101	G	C2-N3-C4	7.52	115.66	111.90
37	3	50	U	N1-C2-O2	-7.52	117.54	122.80
80	6	1008	G	C6-N1-C2	7.52	129.61	125.10
85	5	299	G	N1-C6-O6	-7.52	115.39	119.90
85	5	382	U	N1-C2-O2	-7.52	117.54	122.80
85	5	799	G	N1-C2-N3	-7.52	119.39	123.90
85	5	834	U	C5-C4-O4	7.52	130.41	125.90
85	5	1178	G	C4-N9-C1'	7.52	136.27	126.50
85	5	1413	G	C5-C6-N1	7.52	115.26	111.50
85	5	1883	A	C5-N7-C8	-7.52	100.14	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2592	G	C5-C6-O6	7.52	133.11	128.60
85	5	3071	U	N1-C2-O2	-7.52	117.54	122.80
85	5	3182	G	C5-N7-C8	7.52	108.06	104.30
37	7	18	C	C4-C5-C6	7.52	121.16	117.40
37	7	78	U	N1-C2-N3	7.52	119.41	114.90
36	1	881	C	N1-C2-O2	7.52	123.41	118.90
36	1	1200	A	C5-C6-N1	-7.52	113.94	117.70
36	1	1609	C	O5'-P-OP1	7.52	119.72	110.70
36	1	2230	C	C2-N3-C4	7.52	123.66	119.90
36	1	2927	C	C2-N3-C4	-7.52	116.14	119.90
85	5	1872	C	C5-C4-N4	7.52	125.46	120.20
85	5	1935	G	C5-C6-O6	-7.52	124.09	128.60
85	5	3263	G	C8-N9-C4	-7.52	103.39	106.40
38	8	89	A	N1-C6-N6	-7.52	114.09	118.60
36	1	142	C	OP1-P-O3'	-7.51	88.67	105.20
36	1	1524	A	OP1-P-OP2	-7.51	108.33	119.60
36	1	2218	G	N1-C2-N2	-7.51	109.44	116.20
36	1	2360	C	C2-N3-C4	-7.51	116.14	119.90
36	1	2551	U	N3-C4-O4	-7.51	114.14	119.40
36	1	2808	A	N9-C4-C5	-7.51	102.79	105.80
36	1	2965	U	OP1-P-O3'	7.51	121.73	105.20
36	1	3082	C	N3-C4-C5	-7.51	118.89	121.90
80	6	565	C	C2-N1-C1'	-7.51	110.53	118.80
80	6	932	U	N3-C2-O2	-7.51	116.94	122.20
85	5	20	A	C5-C6-N6	7.51	129.71	123.70
85	5	401	U	N3-C4-O4	7.51	124.66	119.40
85	5	1715	A	C4-C5-N7	7.51	114.46	110.70
85	5	1754	G	C6-N1-C2	-7.51	120.59	125.10
85	5	2669	G	C8-N9-C4	7.51	109.41	106.40
85	5	3319	U	C4-C5-C6	7.51	124.21	119.70
38	8	55	U	OP1-P-OP2	7.51	130.87	119.60
36	1	1410	U	OP2-P-O3'	7.51	121.73	105.20
36	1	2550	U	N3-C2-O2	-7.51	116.94	122.20
36	1	3283	U	N1-C2-O2	-7.51	117.54	122.80
80	6	422	G	C5-N7-C8	-7.51	100.54	104.30
85	5	652	G	N1-C2-N3	7.51	128.41	123.90
85	5	929	A	C5-N7-C8	7.51	107.66	103.90
85	5	1637	A	C5-C6-N1	7.51	121.46	117.70
1	2	16	G	N1-C2-N2	-7.51	109.44	116.20
1	2	187	G	C4-C5-N7	-7.51	107.80	110.80
36	1	776	U	O5'-P-OP2	7.51	119.71	110.70
36	1	978	G	C5-N7-C8	-7.51	100.54	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1004	U	N1-C2-O2	-7.51	117.54	122.80
36	1	1410	U	N1-C2-N3	7.51	119.41	114.90
36	1	2726	C	C2-N3-C4	-7.51	116.14	119.90
85	5	618	C	O5'-P-OP2	-7.51	98.94	105.70
85	5	714	G	O5'-P-OP2	-7.51	98.94	105.70
85	5	1754	G	N9-C4-C5	7.51	108.40	105.40
85	5	2250	G	N7-C8-N9	-7.51	109.34	113.10
36	1	2237	C	N1-C2-O2	7.51	123.41	118.90
36	1	2244	A	OP1-P-OP2	7.51	130.86	119.60
36	1	3104	U	C5-C4-O4	-7.51	121.39	125.90
80	6	58	U	C6-N1-C1'	7.51	131.71	121.20
85	5	222	A	C5-N7-C8	-7.51	100.14	103.90
85	5	366	A	N1-C6-N6	7.51	123.11	118.60
85	5	404	G	O5'-P-OP2	-7.51	98.94	105.70
85	5	630	A	C5-N7-C8	7.51	107.66	103.90
85	5	872	U	C2-N3-C4	-7.51	122.49	127.00
85	5	897	U	O5'-P-OP1	-7.51	98.94	105.70
1	2	8	U	O5'-P-OP2	-7.51	98.94	105.70
36	1	2758	A	OP2-P-O3'	7.51	121.72	105.20
85	5	88	A	C2-N3-C4	-7.51	106.85	110.60
85	5	1441	G	C4-C5-N7	7.51	113.80	110.80
59	n3	12	ARG	NE-CZ-NH1	7.51	124.05	120.30
1	2	87	C	C5-C6-N1	7.51	124.75	121.00
36	1	1150	A	N1-C2-N3	7.51	133.05	129.30
36	1	2370	G	C6-N1-C2	-7.51	120.60	125.10
80	6	280	U	N1-C2-O2	7.51	128.05	122.80
80	6	562	G	N3-C2-N2	-7.51	114.65	119.90
80	6	957	G	C4-C5-C6	7.51	123.30	118.80
85	5	789	A	N9-C4-C5	7.51	108.80	105.80
85	5	3305	A	C5-C6-N1	-7.51	113.95	117.70
36	1	739	G	C5-C6-O6	-7.50	124.10	128.60
36	1	1804	A	C5-C6-N1	-7.50	113.95	117.70
38	4	54	A	C4-C5-C6	7.50	120.75	117.00
80	6	464	A	C5-C6-N6	7.50	129.70	123.70
85	5	1590	G	C5-C6-O6	-7.50	124.10	128.60
85	5	2811	A	N3-C4-C5	-7.50	121.55	126.80
36	1	937	G	N9-C4-C5	7.50	108.40	105.40
36	1	2395	G	C5-C6-N1	-7.50	107.75	111.50
36	1	2714	G	O5'-P-OP1	-7.50	98.95	105.70
36	1	2858	U	C4-C5-C6	7.50	124.20	119.70
80	6	125	U	N3-C2-O2	7.50	127.45	122.20
80	6	269	G	N1-C6-O6	-7.50	115.40	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1344	G	OP2-P-O3'	7.50	121.71	105.20
85	5	1477	A	OP1-P-OP2	7.50	130.86	119.60
85	5	1916	U	C5-C4-O4	-7.50	121.40	125.90
85	5	2693	C	C4-C5-C6	7.50	121.15	117.40
85	5	2876	C	OP1-P-OP2	7.50	130.86	119.60
91	P	75	C	N1-C2-N3	-7.50	113.95	119.20
1	2	1130	A	C5-N7-C8	-7.50	100.15	103.90
36	1	1205	A	C2-N3-C4	-7.50	106.85	110.60
36	1	1472	U	N1-C2-O2	-7.50	117.55	122.80
36	1	1485	G	N3-C4-C5	7.50	132.35	128.60
36	1	1643	A	C6-N1-C2	-7.50	114.10	118.60
36	1	1755	C	C5-C6-N1	7.50	124.75	121.00
36	1	2665	U	N1-C2-O2	7.50	128.05	122.80
36	1	2779	A	N1-C2-N3	7.50	133.05	129.30
80	6	279	G	N1-C2-N2	7.50	122.95	116.20
80	6	886	U	C4-C5-C6	-7.50	115.20	119.70
80	6	1658	G	C2-N3-C4	-7.50	108.15	111.90
85	5	2920	U	N3-C4-C5	-7.50	110.10	114.60
37	7	23	A	C8-N9-C4	-7.50	102.80	105.80
36	1	719	U	O5'-P-OP2	-7.50	98.95	105.70
36	1	844	G	C8-N9-C4	7.50	109.40	106.40
36	1	1660	C	N3-C4-N4	7.50	123.25	118.00
85	5	2604	U	N3-C2-O2	7.50	127.45	122.20
37	7	63	A	N9-C4-C5	7.50	108.80	105.80
43	16	40	LEU	CB-CG-CD1	-7.50	98.25	111.00
1	2	1496	G	C8-N9-C4	-7.50	103.40	106.40
36	1	80	G	C4-C5-N7	-7.50	107.80	110.80
36	1	639	G	C4-C5-C6	7.50	123.30	118.80
36	1	1472	U	C6-N1-C2	7.50	125.50	121.00
36	1	2309	A	C8-N9-C4	-7.50	102.80	105.80
36	1	2609	A	C6-N1-C2	-7.50	114.10	118.60
36	1	2694	A	O5'-P-OP1	-7.50	98.95	105.70
80	6	573	C	C2-N3-C4	-7.50	116.15	119.90
80	6	616	G	C6-N1-C2	-7.50	120.60	125.10
85	5	1085	A	C6-C5-N7	-7.50	127.05	132.30
85	5	2635	A	C5-N7-C8	-7.50	100.15	103.90
85	5	3339	A	N7-C8-N9	7.50	117.55	113.80
37	7	61	G	O5'-P-OP2	-7.50	98.95	105.70
1	2	1271	G	C4-C5-N7	-7.50	107.80	110.80
1	2	1309	A	C2-N3-C4	7.50	114.35	110.60
1	2	1492	C	C5-C6-N1	7.50	124.75	121.00
36	1	1118	C	N3-C4-C5	-7.50	118.90	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2662	G	O5'-P-OP2	-7.50	98.95	105.70
36	1	3244	A	N1-C6-N6	7.50	123.10	118.60
80	6	1154	G	N7-C8-N9	7.50	116.85	113.10
80	6	1450	U	N3-C2-O2	7.50	127.45	122.20
85	5	743	C	N1-C2-O2	-7.50	114.40	118.90
85	5	1042	U	OP1-P-O3'	-7.50	88.71	105.20
85	5	2726	C	OP1-P-OP2	-7.50	108.36	119.60
1	2	1708	U	C5-C4-O4	-7.50	121.40	125.90
36	1	2133	U	C5-C4-O4	7.50	130.40	125.90
36	1	2933	A	N7-C8-N9	7.50	117.55	113.80
85	5	283	G	N3-C4-N9	7.50	130.50	126.00
85	5	2737	C	O5'-P-OP2	-7.50	98.95	105.70
1	2	1368	G	N1-C2-N3	7.49	128.40	123.90
36	1	105	C	C2-N3-C4	-7.49	116.15	119.90
36	1	497	C	C4-C5-C6	7.49	121.15	117.40
36	1	880	G	N1-C6-O6	-7.49	115.40	119.90
36	1	2782	U	C4-C5-C6	7.49	124.20	119.70
36	1	2911	A	N1-C2-N3	7.49	133.05	129.30
80	6	575	C	N1-C2-N3	7.49	124.44	119.20
80	6	1511	U	C6-N1-C2	-7.49	116.50	121.00
80	6	1790	A	N1-C6-N6	-7.49	114.10	118.60
85	5	12	A	C6-N1-C2	-7.49	114.10	118.60
85	5	927	C	O5'-P-OP1	-7.49	98.96	105.70
85	5	2753	G	C2-N3-C4	-7.49	108.15	111.90
85	5	3271	G	C5-N7-C8	7.49	108.05	104.30
38	8	122	U	OP2-P-O3'	7.49	121.69	105.20
36	1	1136	A	C6-N1-C2	-7.49	114.11	118.60
37	3	84	A	C5-N7-C8	-7.49	100.15	103.90
85	5	1849	C	N3-C4-C5	-7.49	118.90	121.90
1	2	209	U	N1-C2-O2	-7.49	117.56	122.80
1	2	245	U	C2-N3-C4	-7.49	122.50	127.00
1	2	299	A	O5'-P-OP2	-7.49	98.96	105.70
1	2	821	G	N1-C2-N3	-7.49	119.41	123.90
1	2	1104	C	N3-C4-C5	-7.49	118.90	121.90
1	2	1255	U	O5'-P-OP2	7.49	119.69	110.70
36	1	51	A	C6-N1-C2	-7.49	114.11	118.60
36	1	192	C	C6-N1-C2	-7.49	117.30	120.30
36	1	786	A	N1-C2-N3	7.49	133.05	129.30
36	1	1197	A	C2-N3-C4	7.49	114.34	110.60
36	1	1329	U	C2-N1-C1'	7.49	126.69	117.70
36	1	1437	C	N1-C2-N3	7.49	124.44	119.20
36	1	2373	A	OP1-P-O3'	7.49	121.68	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2873	U	N3-C4-O4	-7.49	114.16	119.40
80	6	719	U	N3-C2-O2	7.49	127.44	122.20
80	6	935	U	C4-C5-C6	7.49	124.19	119.70
85	5	361	A	N7-C8-N9	-7.49	110.05	113.80
85	5	597	G	C5-C6-N1	7.49	115.25	111.50
85	5	1343	A	C6-N1-C2	7.49	123.09	118.60
85	5	2340	U	O5'-P-OP1	-7.49	98.96	105.70
85	5	3144	G	O5'-P-OP1	-7.49	98.96	105.70
36	1	421	G	C4-C5-C6	-7.49	114.31	118.80
36	1	1040	A	N1-C6-N6	-7.49	114.11	118.60
36	1	1371	G	C5-N7-C8	7.49	108.04	104.30
36	1	2853	A	C6-N1-C2	-7.49	114.11	118.60
80	6	1032	G	N9-C4-C5	-7.49	102.41	105.40
80	6	1718	G	OP2-P-O3'	7.49	121.67	105.20
85	5	241	G	N7-C8-N9	7.49	116.84	113.10
85	5	379	C	C5-C6-N1	7.49	124.74	121.00
85	5	626	U	N3-C4-C5	-7.49	110.11	114.60
85	5	947	G	N1-C2-N3	7.49	128.39	123.90
85	5	1140	G	N7-C8-N9	-7.49	109.36	113.10
85	5	1897	G	OP2-P-O3'	7.49	121.67	105.20
85	5	2386	A	C6-C5-N7	-7.49	127.06	132.30
85	5	3186	A	N1-C6-N6	-7.49	114.11	118.60
85	5	3262	U	OP1-P-OP2	-7.49	108.37	119.60
51	m5	159	ARG	NE-CZ-NH1	-7.49	116.56	120.30
36	1	1358	C	N3-C2-O2	7.49	127.14	121.90
36	1	1805	C	C5-C6-N1	-7.49	117.26	121.00
80	6	590	C	O5'-P-OP2	7.49	119.68	110.70
85	5	2397	A	OP1-P-OP2	7.49	130.83	119.60
1	2	93	A	O5'-P-OP2	-7.49	98.96	105.70
36	1	1423	C	N1-C2-N3	7.49	124.44	119.20
36	1	2740	A	C4-C5-N7	7.49	114.44	110.70
36	1	2787	G	N1-C6-O6	7.49	124.39	119.90
80	6	450	U	O5'-P-OP1	7.49	119.68	110.70
80	6	1404	C	C6-N1-C2	7.49	123.29	120.30
85	5	3278	C	N1-C2-O2	7.49	123.39	118.90
38	8	134	G	N7-C8-N9	-7.49	109.36	113.10
1	2	386	G	OP1-P-O3'	7.48	121.67	105.20
1	2	1482	G	OP1-P-OP2	-7.48	108.37	119.60
36	1	2193	U	N3-C2-O2	7.48	127.44	122.20
36	1	2379	U	C6-N1-C2	-7.48	116.51	121.00
36	1	2586	G	O5'-P-OP1	-7.48	98.97	105.70
36	1	2936	A	O5'-P-OP2	7.48	119.68	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3099	C	OP1-P-OP2	7.48	130.83	119.60
85	5	583	G	C6-C5-N7	-7.48	125.91	130.40
1	2	572	C	N1-C2-O2	-7.48	114.41	118.90
1	2	969	G	N9-C4-C5	7.48	108.39	105.40
36	1	2530	G	C5-C6-O6	-7.48	124.11	128.60
37	3	8	G	C2-N3-C4	-7.48	108.16	111.90
80	6	941	A	C4-C5-N7	-7.48	106.96	110.70
85	5	619	A	C8-N9-C4	7.48	108.79	105.80
85	5	1003	A	C4-C5-N7	7.48	114.44	110.70
85	5	2215	A	C6-C5-N7	-7.48	127.06	132.30
85	5	2228	A	N1-C6-N6	-7.48	114.11	118.60
85	5	2441	A	N1-C2-N3	-7.48	125.56	129.30
1	2	787	A	C2-N3-C4	-7.48	106.86	110.60
36	1	1450	G	N1-C6-O6	-7.48	115.41	119.90
36	1	1831	U	N1-C2-N3	7.48	119.39	114.90
36	1	2315	G	N3-C2-N2	-7.48	114.66	119.90
36	1	3187	A	N3-C4-C5	-7.48	121.56	126.80
80	6	431	C	O5'-P-OP1	-7.48	98.97	105.70
80	6	872	G	C6-C5-N7	-7.48	125.91	130.40
80	6	880	C	C6-N1-C2	-7.48	117.31	120.30
80	6	1774	G	C5-C6-O6	7.48	133.09	128.60
85	5	1554	U	O5'-P-OP1	7.48	119.68	110.70
36	1	422	A	C6-N1-C2	-7.48	114.11	118.60
80	6	102	U	N1-C2-N3	-7.48	110.41	114.90
85	5	1052	U	C5-C4-O4	-7.48	121.41	125.90
85	5	1186	G	N9-C4-C5	7.48	108.39	105.40
85	5	2643	A	N9-C4-C5	-7.48	102.81	105.80
1	2	1627	C	N3-C2-O2	-7.48	116.67	121.90
36	1	780	A	O5'-P-OP1	-7.48	98.97	105.70
36	1	1462	A	OP1-P-OP2	-7.48	108.38	119.60
36	1	1515	A	C5-C6-N1	-7.48	113.96	117.70
36	1	1798	A	C5-N7-C8	-7.48	100.16	103.90
36	1	2397	A	N1-C6-N6	7.48	123.09	118.60
36	1	3361	G	C6-N1-C2	-7.48	120.61	125.10
36	1	3375	A	C2-N3-C4	-7.48	106.86	110.60
38	4	140	G	C6-C5-N7	-7.48	125.91	130.40
80	6	613	G	C5-C6-N1	7.48	115.24	111.50
80	6	1353	U	C6-N1-C2	-7.48	116.51	121.00
80	6	1578	U	C5-C6-N1	-7.48	118.96	122.70
80	6	1797	A	C2-N3-C4	7.48	114.34	110.60
85	5	149	U	N1-C2-O2	-7.48	117.56	122.80
85	5	765	C	C4-C5-C6	7.48	121.14	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1913	A	C5-C6-N1	7.48	121.44	117.70
85	5	2373	A	C5-C6-N1	7.48	121.44	117.70
85	5	2984	C	C2-N3-C4	-7.48	116.16	119.90
37	7	75	G	N3-C2-N2	-7.48	114.67	119.90
1	2	91	G	N3-C2-N2	-7.48	114.67	119.90
80	6	11	A	C4-C5-N7	-7.48	106.96	110.70
85	5	2633	U	C5-C4-O4	7.48	130.39	125.90
85	5	3333	G	C5-C6-O6	7.48	133.09	128.60
38	8	40	A	C8-N9-C4	-7.48	102.81	105.80
36	1	78	U	OP1-P-O3'	-7.47	88.76	105.20
36	1	1097	G	N7-C8-N9	7.47	116.84	113.10
36	1	1778	G	N3-C2-N2	-7.47	114.67	119.90
36	1	2602	G	O5'-P-OP1	7.47	119.67	110.70
36	1	2745	G	C8-N9-C4	7.47	109.39	106.40
36	1	3207	U	C6-N1-C1'	7.47	131.66	121.20
38	4	147	U	N1-C2-N3	7.47	119.39	114.90
80	6	359	A	OP1-P-O3'	7.47	121.64	105.20
80	6	1604	U	N3-C4-O4	7.47	124.63	119.40
85	5	92	G	N1-C6-O6	-7.47	115.42	119.90
85	5	721	G	N3-C2-N2	-7.47	114.67	119.90
85	5	2106	A	C8-N9-C4	-7.47	102.81	105.80
36	1	1906	G	C4-C5-N7	7.47	113.79	110.80
36	1	3097	C	C4-C5-C6	-7.47	113.66	117.40
80	6	705	U	N3-C2-O2	-7.47	116.97	122.20
85	5	562	C	C5-C4-N4	-7.47	114.97	120.20
85	5	798	G	C5-C6-O6	-7.47	124.12	128.60
85	5	878	G	O5'-P-OP1	-7.47	98.97	105.70
85	5	1112	A	N3-C4-C5	-7.47	121.57	126.80
85	5	1207	G	C2-N3-C4	7.47	115.64	111.90
85	5	1805	C	N3-C2-O2	7.47	127.13	121.90
1	2	1079	C	N3-C4-C5	-7.47	118.91	121.90
36	1	5	G	N3-C4-C5	7.47	132.34	128.60
36	1	215	G	C8-N9-C4	-7.47	103.41	106.40
36	1	304	G	C8-N9-C4	-7.47	103.41	106.40
36	1	2330	C	N3-C4-C5	7.47	124.89	121.90
80	6	1117	U	N3-C2-O2	7.47	127.43	122.20
80	6	1678	A	C6-C5-N7	-7.47	127.07	132.30
85	5	1753	G	C4-C5-C6	7.47	123.28	118.80
85	5	2109	U	C5-C4-O4	7.47	130.38	125.90
38	8	36	G	N1-C2-N2	-7.47	109.48	116.20
38	8	87	G	N7-C8-N9	-7.47	109.36	113.10
36	1	845	G	N9-C4-C5	7.47	108.39	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1086	C	C2-N3-C4	-7.47	116.17	119.90
36	1	1510	G	N1-C6-O6	7.47	124.38	119.90
38	4	50	C	N3-C4-C5	-7.47	118.91	121.90
80	6	317	C	N1-C2-N3	7.47	124.43	119.20
80	6	1726	G	C2-N3-C4	-7.47	108.17	111.90
80	6	1729	C	N3-C4-N4	7.47	123.23	118.00
85	5	110	G	C2-N3-C4	7.47	115.63	111.90
85	5	1600	U	C5-C6-N1	-7.47	118.97	122.70
36	1	1942	U	C6-N1-C2	-7.47	116.52	121.00
80	6	1688	U	C6-N1-C2	-7.47	116.52	121.00
85	5	2792	A	C5-C6-N1	7.47	121.43	117.70
1	2	1109	G	C5-N7-C8	7.47	108.03	104.30
36	1	616	G	O5'-P-OP2	-7.47	98.98	105.70
36	1	786	A	C6-N1-C2	-7.47	114.12	118.60
36	1	1285	G	N3-C2-N2	7.47	125.13	119.90
38	4	114	G	C4-C5-N7	7.47	113.79	110.80
80	6	482	U	C2-N3-C4	7.47	131.48	127.00
85	5	778	U	N3-C2-O2	-7.47	116.97	122.20
85	5	1146	C	N1-C2-O2	-7.47	114.42	118.90
85	5	1499	C	OP1-P-OP2	-7.47	108.40	119.60
85	5	2368	A	C4-C5-C6	7.47	120.73	117.00
85	5	2870	C	N1-C2-O2	-7.47	114.42	118.90
37	7	53	U	C4-C5-C6	7.47	124.18	119.70
1	2	474	A	C5-C6-N1	-7.46	113.97	117.70
1	2	498	G	N1-C6-O6	-7.46	115.42	119.90
36	1	498	A	C5-N7-C8	7.46	107.63	103.90
36	1	611	A	O5'-P-OP1	7.46	119.66	110.70
36	1	963	G	C6-C5-N7	-7.46	125.92	130.40
36	1	1351	U	N3-C4-C5	-7.46	110.12	114.60
36	1	1673	G	C2-N3-C4	-7.46	108.17	111.90
36	1	2916	U	C2-N3-C4	7.46	131.48	127.00
36	1	3086	A	C6-N1-C2	-7.46	114.12	118.60
37	3	88	G	C4-C5-N7	-7.46	107.81	110.80
80	6	1090	C	N3-C2-O2	-7.46	116.67	121.90
85	5	344	A	C5-C6-N6	7.46	129.67	123.70
85	5	637	C	C5-C6-N1	7.46	124.73	121.00
85	5	733	G	N1-C6-O6	7.46	124.38	119.90
85	5	1102	A	OP1-P-O3'	7.46	121.62	105.20
85	5	1601	U	O5'-P-OP1	-7.46	98.98	105.70
85	5	2242	A	N1-C6-N6	-7.46	114.12	118.60
85	5	2337	C	C2-N3-C4	-7.46	116.17	119.90
36	1	924	G	C5-N7-C8	-7.46	100.57	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2571	U	N3-C2-O2	-7.46	116.98	122.20
36	1	3224	G	C5-C6-O6	-7.46	124.12	128.60
37	3	10	C	N3-C4-N4	7.46	123.22	118.00
80	6	1674	C	N3-C2-O2	7.46	127.12	121.90
85	5	197	G	O5'-P-OP1	7.46	119.66	110.70
37	7	1	G	N1-C2-N2	-7.46	109.48	116.20
36	1	706	A	C5-C6-N1	-7.46	113.97	117.70
36	1	2988	C	O5'-P-OP2	-7.46	98.98	105.70
36	1	3074	G	C5-C6-N1	-7.46	107.77	111.50
36	1	3245	A	C5-C6-N1	-7.46	113.97	117.70
85	5	1211	U	N3-C4-C5	7.46	119.08	114.60
85	5	2140	U	N1-C2-O2	7.46	128.02	122.80
1	2	858	G	N9-C4-C5	7.46	108.38	105.40
36	1	155	G	N3-C4-N9	7.46	130.48	126.00
36	1	1310	G	OP1-P-OP2	-7.46	108.41	119.60
51	M5	109	ARG	NE-CZ-NH1	-7.46	116.57	120.30
85	5	410	U	C5-C6-N1	7.46	126.43	122.70
85	5	1068	C	N3-C4-N4	-7.46	112.78	118.00
85	5	1735	G	N3-C4-C5	7.46	132.33	128.60
36	1	145	G	OP1-P-O3'	7.46	121.61	105.20
36	1	1057	A	C2-N3-C4	-7.46	106.87	110.60
36	1	1839	A	N1-C2-N3	7.46	133.03	129.30
36	1	2906	C	N1-C2-O2	-7.46	114.42	118.90
37	3	5	G	N7-C8-N9	-7.46	109.37	113.10
38	4	124	G	C5-C6-O6	-7.46	124.12	128.60
85	5	124	U	C4-C5-C6	7.46	124.17	119.70
85	5	683	U	N1-C2-O2	7.46	128.02	122.80
85	5	724	U	O5'-P-OP2	7.46	119.65	110.70
85	5	2185	G	C4-C5-C6	7.46	123.28	118.80
85	5	2396	G	C6-C5-N7	-7.46	125.92	130.40
85	5	3015	G	N7-C8-N9	-7.46	109.37	113.10
1	2	441	A	C5-C6-N1	7.46	121.43	117.70
1	2	755	G	C5-C6-N1	-7.46	107.77	111.50
36	1	2396	G	N7-C8-N9	7.46	116.83	113.10
38	4	101	U	N3-C4-O4	7.46	124.62	119.40
80	6	297	U	C5-C6-N1	7.46	126.43	122.70
85	5	703	G	C4-C5-N7	7.46	113.78	110.80
85	5	3183	A	N1-C6-N6	-7.46	114.13	118.60
38	8	111	A	C4-C5-C6	7.46	120.73	117.00
36	1	28	C	C5-C4-N4	-7.46	114.98	120.20
36	1	594	U	N3-C2-O2	7.46	127.42	122.20
36	1	2422	C	C5-C4-N4	7.46	125.42	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2851	A	N9-C4-C5	7.46	108.78	105.80
37	3	3	U	C5-C6-N1	-7.46	118.97	122.70
37	3	91	G	N3-C4-C5	-7.46	124.87	128.60
85	5	327	A	C8-N9-C4	-7.46	102.82	105.80
85	5	591	G	N9-C4-C5	-7.46	102.42	105.40
85	5	2213	A	N3-C4-C5	7.46	132.02	126.80
1	2	1650	A	C5-N7-C8	-7.45	100.17	103.90
36	1	90	C	N3-C4-C5	7.45	124.88	121.90
36	1	367	A	N1-C2-N3	7.45	133.03	129.30
36	1	884	A	OP1-P-O3'	7.45	121.60	105.20
36	1	1145	G	C2-N3-C4	-7.45	108.17	111.90
36	1	1169	A	C2-N3-C4	7.45	114.33	110.60
36	1	2648	G	C6-N1-C2	7.45	129.57	125.10
36	1	2919	A	C5-N7-C8	-7.45	100.17	103.90
80	6	329	G	C8-N9-C4	-7.45	103.42	106.40
80	6	427	C	C4-C5-C6	7.45	121.13	117.40
85	5	908	G	N1-C6-O6	7.45	124.37	119.90
85	5	1450	G	C4-C5-N7	7.45	113.78	110.80
85	5	1779	C	N1-C2-N3	7.45	124.42	119.20
85	5	2365	C	N3-C4-N4	7.45	123.22	118.00
85	5	2616	C	O5'-P-OP1	-7.45	98.99	105.70
85	5	2777	G	C8-N9-C4	-7.45	103.42	106.40
85	5	3074	G	N3-C2-N2	7.45	125.12	119.90
1	2	310	C	C6-N1-C2	-7.45	117.32	120.30
36	1	334	A	N7-C8-N9	7.45	117.53	113.80
36	1	895	A	C6-C5-N7	-7.45	127.08	132.30
36	1	901	G	C5-N7-C8	-7.45	100.57	104.30
36	1	1678	G	C5-C6-O6	-7.45	124.13	128.60
36	1	2362	C	O5'-P-OP1	-7.45	98.99	105.70
85	5	369	A	C4-C5-C6	7.45	120.73	117.00
85	5	1492	G	N1-C2-N3	7.45	128.37	123.90
36	1	314	U	O5'-P-OP2	-7.45	98.99	105.70
36	1	662	U	C5-C4-O4	-7.45	121.43	125.90
36	1	753	C	C5-C6-N1	7.45	124.72	121.00
36	1	1466	G	N1-C6-O6	7.45	124.37	119.90
36	1	1931	U	C5-C4-O4	7.45	130.37	125.90
36	1	2876	C	N3-C4-C5	-7.45	118.92	121.90
80	6	481	A	C4-C5-C6	-7.45	113.28	117.00
85	5	2187	G	N1-C2-N3	7.45	128.37	123.90
1	2	19	A	C4-C5-C6	7.45	120.72	117.00
1	2	351	C	O5'-P-OP2	-7.45	99.00	105.70
36	1	745	C	OP1-P-OP2	-7.45	108.43	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1909	A	C2-N3-C4	-7.45	106.88	110.60
36	1	2333	C	N3-C4-N4	-7.45	112.79	118.00
36	1	2736	A	N3-C4-N9	-7.45	121.44	127.40
80	6	755	A	C2-N3-C4	-7.45	106.88	110.60
85	5	304	G	N1-C2-N2	7.45	122.90	116.20
85	5	377	A	N1-C6-N6	7.45	123.07	118.60
85	5	1006	A	C5-C6-N6	7.45	129.66	123.70
85	5	1408	G	N1-C2-N3	7.45	128.37	123.90
85	5	1920	U	N3-C4-C5	-7.45	110.13	114.60
85	5	2541	U	N3-C2-O2	-7.45	116.99	122.20
85	5	2963	C	N3-C2-O2	7.45	127.11	121.90
85	5	3093	C	OP2-P-O3'	7.45	121.59	105.20
36	1	1185	C	C2-N3-C4	-7.45	116.18	119.90
36	1	2249	G	N1-C6-O6	-7.45	115.43	119.90
37	3	88	G	OP1-P-OP2	7.45	130.77	119.60
85	5	1555	U	N1-C2-O2	7.45	128.01	122.80
85	5	2438	A	C5-C6-N1	-7.45	113.98	117.70
85	5	2878	G	C5-C6-O6	-7.45	124.13	128.60
85	5	2977	G	OP2-P-O3'	7.45	121.58	105.20
36	1	1208	U	N3-C2-O2	-7.45	116.99	122.20
36	1	1436	U	N3-C2-O2	7.45	127.41	122.20
36	1	1778	G	C4-C5-N7	-7.45	107.82	110.80
36	1	1858	A	C8-N9-C4	-7.45	102.82	105.80
36	1	1887	A	C8-N9-C4	7.45	108.78	105.80
36	1	2147	A	C8-N9-C4	7.45	108.78	105.80
36	1	2916	U	N3-C2-O2	-7.45	116.99	122.20
36	1	3247	G	N1-C2-N2	-7.45	109.50	116.20
85	5	663	C	C6-N1-C2	-7.45	117.32	120.30
85	5	807	A	C4-C5-N7	7.45	114.42	110.70
85	5	975	C	C6-N1-C2	-7.45	117.32	120.30
85	5	2316	G	N1-C2-N2	-7.45	109.50	116.20
85	5	2392	C	OP2-P-O3'	7.45	121.58	105.20
1	2	1183	G	C5-C6-N1	-7.44	107.78	111.50
36	1	2597	U	N3-C4-O4	7.44	124.61	119.40
80	6	29	U	C5-C4-O4	7.44	130.37	125.90
80	6	307	G	C4-C5-N7	-7.44	107.82	110.80
85	5	1833	G	N1-C2-N2	7.44	122.90	116.20
85	5	2615	G	N9-C4-C5	-7.44	102.42	105.40
85	5	2620	G	C2-N3-C4	-7.44	108.18	111.90
37	7	81	U	OP1-P-O3'	-7.44	88.82	105.20
1	2	210	A	C5-C6-N1	-7.44	113.98	117.70
1	2	976	A	C8-N9-C4	-7.44	102.82	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	703	G	C6-N1-C2	-7.44	120.64	125.10
36	1	832	G	N1-C6-O6	-7.44	115.44	119.90
36	1	1675	G	C4-C5-C6	-7.44	114.33	118.80
36	1	2116	G	N1-C6-O6	-7.44	115.43	119.90
40	L3	270	ARG	NE-CZ-NH1	-7.44	116.58	120.30
80	6	932	U	O5'-P-OP2	-7.44	99.00	105.70
85	5	149	U	C5-C4-O4	-7.44	121.44	125.90
85	5	367	A	C6-C5-N7	-7.44	127.09	132.30
85	5	784	A	C8-N9-C4	-7.44	102.82	105.80
85	5	1264	G	N1-C6-O6	-7.44	115.44	119.90
85	5	1831	U	C6-N1-C2	-7.44	116.53	121.00
85	5	2611	U	N3-C4-C5	-7.44	110.13	114.60
85	5	3035	A	C5-C6-N1	7.44	121.42	117.70
36	1	591	G	C4-C5-N7	-7.44	107.82	110.80
36	1	1838	G	N3-C4-C5	-7.44	124.88	128.60
36	1	2131	A	C2-N3-C4	-7.44	106.88	110.60
36	1	2958	A	N1-C6-N6	-7.44	114.14	118.60
85	5	169	U	N3-C4-O4	-7.44	114.19	119.40
85	5	1371	G	N1-C2-N3	7.44	128.36	123.90
85	5	1681	U	N3-C2-O2	7.44	127.41	122.20
85	5	2790	A	N9-C4-C5	-7.44	102.82	105.80
85	5	2929	C	C5-C4-N4	-7.44	114.99	120.20
85	5	3009	G	C5-C6-N1	-7.44	107.78	111.50
85	5	3367	C	O5'-P-OP2	7.44	119.63	110.70
1	2	1527	U	C5-C6-N1	-7.44	118.98	122.70
36	1	857	G	N9-C4-C5	7.44	108.38	105.40
36	1	1891	A	C2-N3-C4	-7.44	106.88	110.60
36	1	2334	U	N1-C2-N3	7.44	119.36	114.90
80	6	526	A	N7-C8-N9	7.44	117.52	113.80
85	5	397	A	C6-C5-N7	7.44	137.51	132.30
85	5	1371	G	C2-N3-C4	-7.44	108.18	111.90
85	5	1418	A	C8-N9-C4	-7.44	102.82	105.80
85	5	1829	G	C5-C6-O6	-7.44	124.14	128.60
85	5	2328	U	C6-N1-C2	-7.44	116.54	121.00
85	5	2972	G	C6-C5-N7	-7.44	125.94	130.40
36	1	509	U	C5-C6-N1	-7.44	118.98	122.70
36	1	916	G	N3-C2-N2	7.44	125.11	119.90
36	1	1045	C	O5'-P-OP1	7.44	119.62	110.70
36	1	1375	G	C6-C5-N7	-7.44	125.94	130.40
36	1	1474	A	OP1-P-OP2	-7.44	108.44	119.60
36	1	1866	C	N3-C2-O2	-7.44	116.69	121.90
36	1	2424	A	C4-C5-C6	-7.44	113.28	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2951	G	C8-N9-C4	7.44	109.38	106.40
36	1	3144	G	C5-C6-N1	-7.44	107.78	111.50
36	1	3229	G	C5-N7-C8	-7.44	100.58	104.30
36	1	3335	A	O5'-P-OP2	-7.44	99.01	105.70
80	6	321	C	N3-C4-C5	7.44	124.88	121.90
80	6	533	U	N3-C2-O2	-7.44	116.99	122.20
80	6	610	G	N9-C4-C5	-7.44	102.42	105.40
80	6	1150	G	C4-C5-N7	7.44	113.78	110.80
85	5	656	A	N9-C4-C5	-7.44	102.83	105.80
85	5	985	U	N1-C2-O2	-7.44	117.59	122.80
85	5	1417	G	OP1-P-OP2	-7.44	108.44	119.60
85	5	2132	C	N3-C4-C5	7.44	124.88	121.90
85	5	2897	A	C5-C6-N6	-7.44	117.75	123.70
85	5	2918	G	N3-C2-N2	-7.44	114.69	119.90
38	8	2	A	C6-N1-C2	-7.44	114.14	118.60
1	2	90	C	N3-C4-C5	-7.44	118.92	121.90
36	1	53	G	C5-N7-C8	7.44	108.02	104.30
36	1	111	C	N3-C4-C5	7.44	124.87	121.90
36	1	1394	A	N9-C4-C5	-7.44	102.83	105.80
80	6	758	U	C5-C6-N1	-7.44	118.98	122.70
85	5	350	C	N3-C4-C5	-7.44	118.93	121.90
1	2	1590	G	C5-C6-N1	-7.43	107.78	111.50
36	1	785	G	C5-C6-O6	-7.43	124.14	128.60
36	1	1292	C	N1-C2-O2	-7.43	114.44	118.90
36	1	2095	G	C6-C5-N7	7.43	134.86	130.40
36	1	2122	G	C6-N1-C2	-7.43	120.64	125.10
36	1	2581	U	O5'-P-OP1	-7.43	99.01	105.70
36	1	2653	C	O5'-P-OP2	-7.43	99.01	105.70
36	1	2908	G	N3-C4-C5	-7.43	124.88	128.60
36	1	3255	U	C2-N3-C4	-7.43	122.54	127.00
49	M3	55	ARG	NE-CZ-NH1	-7.43	116.58	120.30
80	6	73	U	N1-C2-N3	-7.43	110.44	114.90
80	6	478	A	N1-C2-N3	7.43	133.02	129.30
85	5	96	G	O4'-C1'-N9	-7.43	102.25	108.20
85	5	1035	G	C8-N9-C4	-7.43	103.43	106.40
85	5	1674	G	OP1-P-OP2	7.43	130.75	119.60
85	5	1714	A	N1-C6-N6	7.43	123.06	118.60
85	5	1880	U	C2-N3-C4	-7.43	122.54	127.00
85	5	2506	U	C5-C6-N1	7.43	126.42	122.70
1	2	459	G	C5-C6-N1	-7.43	107.78	111.50
36	1	391	A	C5-C6-N1	7.43	121.42	117.70
36	1	1499	C	N1-C2-O2	-7.43	114.44	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1841	A	N7-C8-N9	-7.43	110.08	113.80
36	1	1872	C	C2-N3-C4	-7.43	116.18	119.90
36	1	2614	G	C5-N7-C8	7.43	108.02	104.30
37	3	40	C	C5-C6-N1	7.43	124.72	121.00
37	3	73	C	C4-C5-C6	-7.43	113.68	117.40
38	4	49	G	N9-C4-C5	-7.43	102.43	105.40
80	6	930	A	C2-N3-C4	-7.43	106.88	110.60
80	6	1086	A	N1-C2-N3	-7.43	125.58	129.30
85	5	8	C	C5-C4-N4	7.43	125.40	120.20
85	5	111	C	O5'-P-OP2	-7.43	99.01	105.70
85	5	628	A	C2-N3-C4	-7.43	106.88	110.60
85	5	1844	C	C6-N1-C2	-7.43	117.33	120.30
85	5	2848	G	C4-C5-N7	-7.43	107.83	110.80
85	5	2852	C	O5'-P-OP2	-7.43	99.01	105.70
85	5	2938	G	C4-C5-N7	7.43	113.77	110.80
1	2	1291	G	N1-C2-N3	7.43	128.36	123.90
36	1	324	A	N3-C4-N9	-7.43	121.45	127.40
36	1	582	G	C4-C5-C6	-7.43	114.34	118.80
36	1	619	A	N9-C4-C5	-7.43	102.83	105.80
36	1	1514	G	C5-C6-O6	-7.43	124.14	128.60
36	1	3108	G	C5-C6-N1	7.43	115.22	111.50
80	6	1722	A	C5-N7-C8	7.43	107.62	103.90
85	5	511	G	C8-N9-C4	-7.43	103.43	106.40
85	5	788	C	C5-C4-N4	7.43	125.40	120.20
1	2	71	A	C5-C6-N1	7.43	121.42	117.70
1	2	586	G	N1-C6-O6	-7.43	115.44	119.90
1	2	1263	C	O5'-P-OP1	-7.43	99.01	105.70
36	1	16	A	C8-N9-C4	7.43	108.77	105.80
85	5	45	A	N7-C8-N9	7.43	117.52	113.80
85	5	1383	G	C6-N1-C2	-7.43	120.64	125.10
85	5	2318	U	C2-N3-C4	7.43	131.46	127.00
85	5	2864	A	C8-N9-C4	-7.43	102.83	105.80
85	5	3028	G	C5-C6-O6	7.43	133.06	128.60
85	5	3318	G	C5-C6-N1	-7.43	107.78	111.50
36	1	636	C	N3-C2-O2	-7.43	116.70	121.90
36	1	2221	G	C6-N1-C2	7.43	129.56	125.10
36	1	2243	A	C5-N7-C8	7.43	107.61	103.90
36	1	3298	C	N3-C2-O2	7.43	127.10	121.90
85	5	1359	C	N3-C4-N4	7.43	123.20	118.00
1	2	434	G	C8-N9-C4	7.43	109.37	106.40
1	2	963	G	N1-C6-O6	-7.43	115.44	119.90
36	1	22	G	C8-N9-C4	-7.43	103.43	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1361	U	C5-C4-O4	-7.43	121.44	125.90
36	1	2369	G	C8-N9-C4	-7.43	103.43	106.40
36	1	2607	G	C6-C5-N7	-7.43	125.94	130.40
36	1	2730	G	N3-C4-N9	-7.43	121.54	126.00
80	6	1007	C	N1-C2-O2	-7.43	114.44	118.90
85	5	778	U	N1-C2-O2	7.43	128.00	122.80
85	5	1596	C	C5-C6-N1	-7.43	117.29	121.00
85	5	1878	G	N7-C8-N9	7.43	116.81	113.10
85	5	1879	A	O5'-P-OP2	-7.43	99.02	105.70
85	5	2624	G	C4-C5-N7	7.43	113.77	110.80
85	5	2837	A	C8-N9-C4	7.43	108.77	105.80
85	5	3305	A	C2-N3-C4	-7.43	106.89	110.60
37	7	60	G	N7-C8-N9	7.43	116.81	113.10
1	2	223	U	C2-N3-C4	7.42	131.46	127.00
1	2	854	G	C5-C6-O6	7.42	133.06	128.60
36	1	283	G	C5-C6-O6	-7.42	124.14	128.60
36	1	347	G	C4-C5-N7	7.42	113.77	110.80
36	1	2734	A	N7-C8-N9	7.42	117.51	113.80
36	1	3042	U	OP1-P-OP2	-7.42	108.46	119.60
36	1	3276	G	N9-C4-C5	-7.42	102.43	105.40
80	6	880	C	N3-C4-N4	7.42	123.20	118.00
80	6	896	U	N3-C4-O4	-7.42	114.20	119.40
80	6	1511	U	N3-C4-O4	7.42	124.60	119.40
85	5	32	U	N1-C2-N3	7.42	119.36	114.90
85	5	189	G	N1-C2-N3	7.42	128.35	123.90
85	5	412	G	C5-C6-O6	7.42	133.05	128.60
85	5	810	A	C6-C5-N7	-7.42	127.10	132.30
85	5	1179	A	C4-C5-N7	-7.42	106.99	110.70
85	5	1425	U	C4-C5-C6	7.42	124.16	119.70
85	5	1851	G	C6-C5-N7	-7.42	125.94	130.40
85	5	2268	U	OP1-P-OP2	-7.42	108.46	119.60
36	1	2125	A	N7-C8-N9	7.42	117.51	113.80
80	6	455	C	C5-C6-N1	7.42	124.71	121.00
85	5	3185	U	C2-N3-C4	-7.42	122.55	127.00
36	1	134	U	N3-C4-O4	-7.42	114.20	119.40
36	1	2421	U	C5-C6-N1	7.42	126.41	122.70
80	6	103	A	P-O3'-C3'	-7.42	110.79	119.70
85	5	370	U	N1-C2-N3	7.42	119.35	114.90
85	5	383	G	C4-C5-N7	-7.42	107.83	110.80
85	5	630	A	N1-C6-N6	-7.42	114.15	118.60
85	5	657	A	OP1-P-OP2	-7.42	108.47	119.60
85	5	726	G	OP1-P-O3'	7.42	121.53	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	983	A	N1-C6-N6	-7.42	114.15	118.60
85	5	1534	A	N1-C2-N3	7.42	133.01	129.30
85	5	1878	G	N3-C2-N2	7.42	125.09	119.90
85	5	3074	G	OP1-P-OP2	7.42	130.73	119.60
1	2	18	C	N3-C4-C5	-7.42	118.93	121.90
1	2	747	U	C5-C6-N1	7.42	126.41	122.70
36	1	256	G	N1-C6-O6	7.42	124.35	119.90
36	1	2950	G	OP1-P-OP2	-7.42	108.47	119.60
80	6	628	G	N1-C2-N2	-7.42	109.52	116.20
80	6	1668	G	N3-C4-C5	-7.42	124.89	128.60
85	5	690	A	C5-C6-N6	7.42	129.64	123.70
85	5	844	G	C2-N3-C4	-7.42	108.19	111.90
85	5	1105	A	O5'-P-OP2	-7.42	99.02	105.70
85	5	1418	A	OP1-P-OP2	7.42	130.73	119.60
37	7	42	A	N1-C2-N3	7.42	133.01	129.30
1	2	887	G	N7-C8-N9	-7.42	109.39	113.10
1	2	921	G	C5-C6-O6	-7.42	124.15	128.60
36	1	643	U	C5-C6-N1	7.42	126.41	122.70
36	1	757	C	C4-C5-C6	7.42	121.11	117.40
36	1	996	A	N1-C6-N6	-7.42	114.15	118.60
36	1	1389	G	N9-C4-C5	-7.42	102.43	105.40
36	1	1555	U	N3-C4-C5	-7.42	110.15	114.60
36	1	1610	G	C5-C6-N1	-7.42	107.79	111.50
80	6	264	G	N3-C4-C5	7.42	132.31	128.60
80	6	741	C	N1-C2-O2	7.42	123.35	118.90
80	6	1181	U	C6-N1-C2	-7.42	116.55	121.00
85	5	407	A	OP2-P-O3'	7.42	121.52	105.20
85	5	420	G	C6-N1-C2	-7.42	120.65	125.10
85	5	2832	C	C4-C5-C6	7.42	121.11	117.40
85	5	2882	U	OP1-P-O3'	7.42	121.52	105.20
1	2	93	A	C6-N1-C2	-7.42	114.15	118.60
1	2	835	C	N1-C2-N3	-7.42	114.01	119.20
1	2	1801	C	C6-N1-C2	-7.42	117.33	120.30
36	1	87	U	N1-C2-O2	-7.42	117.61	122.80
36	1	663	C	C5-C6-N1	7.42	124.71	121.00
36	1	1678	G	C4-C5-N7	7.42	113.77	110.80
36	1	3176	G	C5-C6-O6	-7.42	124.15	128.60
80	6	1795	U	N3-C2-O2	-7.42	117.01	122.20
85	5	684	G	C5-C6-N1	-7.42	107.79	111.50
85	5	748	U	OP1-P-O3'	7.42	121.52	105.20
85	5	2321	A	C5-C6-N1	-7.42	113.99	117.70
85	5	2784	G	C8-N9-C4	-7.42	103.43	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3102	G	N1-C2-N2	-7.42	109.52	116.20
85	5	3243	A	C8-N9-C4	7.42	108.77	105.80
38	8	70	G	C5-N7-C8	7.42	108.01	104.30
36	1	1734	G	C4-C5-N7	7.42	113.77	110.80
36	1	2620	G	C4-C5-N7	7.42	113.77	110.80
36	1	3202	G	C4-C5-N7	7.42	113.77	110.80
80	6	1128	C	C4-C5-C6	7.42	121.11	117.40
85	5	357	A	C5-N7-C8	7.42	107.61	103.90
36	1	353	G	C6-N1-C2	-7.41	120.65	125.10
36	1	500	C	C4-C5-C6	7.41	121.11	117.40
36	1	815	G	N7-C8-N9	7.41	116.81	113.10
36	1	2601	A	OP1-P-OP2	7.41	130.72	119.60
80	6	484	C	C5-C6-N1	7.41	124.71	121.00
85	5	615	U	N3-C4-O4	7.41	124.59	119.40
85	5	2893	C	C5-C6-N1	7.41	124.71	121.00
37	7	41	G	N1-C6-O6	7.41	124.35	119.90
1	2	687	C	N1-C2-O2	7.41	123.35	118.90
36	1	1145	G	N3-C2-N2	-7.41	114.71	119.90
36	1	1212	A	C5-C6-N1	7.41	121.41	117.70
46	L9	69	ARG	NE-CZ-NH2	-7.41	116.59	120.30
85	5	377	A	N7-C8-N9	7.41	117.51	113.80
85	5	2894	C	N3-C4-C5	-7.41	118.94	121.90
85	5	3085	G	C4-C5-N7	-7.41	107.83	110.80
1	2	1643	A	C2-N3-C4	7.41	114.31	110.60
36	1	165	A	C8-N9-C4	-7.41	102.83	105.80
36	1	1071	U	N3-C4-O4	7.41	124.59	119.40
36	1	2182	A	N1-C6-N6	-7.41	114.15	118.60
36	1	2602	G	O5'-P-OP2	-7.41	99.03	105.70
36	1	2643	A	OP1-P-OP2	-7.41	108.48	119.60
80	6	99	C	C2-N3-C4	-7.41	116.19	119.90
80	6	1521	G	C8-N9-C4	-7.41	103.44	106.40
80	6	1663	G	C2-N3-C4	-7.41	108.19	111.90
85	5	7	C	C6-N1-C2	7.41	123.26	120.30
85	5	61	A	C8-N9-C4	-7.41	102.84	105.80
85	5	1202	A	C5-C6-N1	-7.41	114.00	117.70
85	5	1331	U	C2-N3-C4	-7.41	122.55	127.00
85	5	2229	A	N9-C4-C5	7.41	108.76	105.80
1	2	390	G	C6-C5-N7	-7.41	125.95	130.40
1	2	776	A	C5-N7-C8	7.41	107.61	103.90
1	2	986	A	N9-C4-C5	7.41	108.76	105.80
36	1	353	G	C4-C5-N7	-7.41	107.84	110.80
36	1	1299	U	C2-N3-C4	7.41	131.44	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1370	G	C6-N1-C2	-7.41	120.66	125.10
36	1	1400	G	C8-N9-C1'	-7.41	117.37	127.00
36	1	2799	A	C4-C5-C6	7.41	120.70	117.00
36	1	3362	A	C8-N9-C4	-7.41	102.84	105.80
80	6	1100	G	C4-C5-C6	7.41	123.25	118.80
85	5	820	A	C6-N1-C2	-7.41	114.16	118.60
85	5	1940	G	C5-N7-C8	-7.41	100.60	104.30
85	5	2389	C	N1-C2-N3	7.41	124.39	119.20
85	5	3035	A	OP2-P-O3'	7.41	121.50	105.20
85	5	3179	U	N1-C2-N3	7.41	119.34	114.90
36	1	657	A	C4-C5-C6	-7.41	113.30	117.00
36	1	1897	G	C4-C5-N7	7.41	113.76	110.80
80	6	1161	C	N1-C2-N3	7.41	124.39	119.20
80	6	1461	C	N3-C2-O2	-7.41	116.72	121.90
85	5	957	C	OP1-P-O3'	7.41	121.50	105.20
85	5	1827	C	N1-C2-N3	-7.41	114.02	119.20
36	1	134	U	N3-C2-O2	7.41	127.38	122.20
36	1	1860	G	N1-C2-N3	7.41	128.34	123.90
36	1	1921	A	N1-C2-N3	-7.41	125.60	129.30
38	4	142	C	C5-C6-N1	7.41	124.70	121.00
80	6	87	C	C6-N1-C2	-7.41	117.34	120.30
80	6	991	G	N1-C6-O6	-7.41	115.46	119.90
80	6	1108	G	C6-C5-N7	-7.41	125.96	130.40
80	6	1294	G	N3-C4-N9	-7.41	121.56	126.00
85	5	818	C	C2-N3-C4	-7.41	116.20	119.90
85	5	2616	C	C5-C6-N1	7.41	124.70	121.00
85	5	2922	G	O5'-P-OP1	-7.41	99.03	105.70
85	5	3372	A	N3-C4-C5	-7.41	121.62	126.80
1	2	751	C	C5-C6-N1	7.40	124.70	121.00
36	1	2886	U	C5-C6-N1	7.40	126.40	122.70
38	4	13	A	N9-C4-C5	7.40	108.76	105.80
85	5	672	A	N7-C8-N9	7.40	117.50	113.80
85	5	856	G	N3-C4-C5	-7.40	124.90	128.60
85	5	2378	C	C2-N3-C4	-7.40	116.20	119.90
85	5	2766	U	C5-C6-N1	-7.40	119.00	122.70
36	1	249	U	N1-C2-O2	7.40	127.98	122.80
36	1	267	G	N3-C2-N2	-7.40	114.72	119.90
36	1	882	A	C4-C5-C6	7.40	120.70	117.00
36	1	2570	U	N3-C2-O2	-7.40	117.02	122.20
37	3	13	A	C5-N7-C8	-7.40	100.20	103.90
80	6	1240	U	C5-C6-N1	7.40	126.40	122.70
85	5	36	C	N3-C4-C5	7.40	124.86	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1185	C	N1-C2-O2	7.40	123.34	118.90
85	5	1295	G	O5'-P-OP2	7.40	119.58	110.70
85	5	2323	G	OP1-P-OP2	-7.40	108.50	119.60
85	5	3250	U	O5'-P-OP2	-7.40	99.04	105.70
38	8	42	G	O5'-P-OP2	-7.40	99.04	105.70
36	1	425	G	N3-C2-N2	7.40	125.08	119.90
36	1	1118	C	C5-C4-N4	7.40	125.38	120.20
36	1	2329	C	N3-C4-C5	7.40	124.86	121.90
36	1	3142	A	N9-C4-C5	7.40	108.76	105.80
36	1	3260	G	O5'-P-OP2	-7.40	99.04	105.70
80	6	926	A	C4-C5-N7	7.40	114.40	110.70
80	6	1025	A	N1-C2-N3	7.40	133.00	129.30
85	5	146	U	N3-C4-C5	7.40	119.04	114.60
85	5	620	U	N3-C4-O4	7.40	124.58	119.40
85	5	959	C	O5'-P-OP2	-7.40	99.04	105.70
85	5	961	C	N3-C2-O2	-7.40	116.72	121.90
85	5	1171	G	N1-C2-N3	7.40	128.34	123.90
85	5	2409	G	N9-C4-C5	7.40	108.36	105.40
85	5	2891	U	N3-C4-O4	-7.40	114.22	119.40
37	7	87	G	C5-C6-N1	-7.40	107.80	111.50
36	1	380	U	N3-C4-O4	7.40	124.58	119.40
36	1	437	G	C6-C5-N7	7.40	134.84	130.40
36	1	1640	G	C5-C6-N1	7.40	115.20	111.50
36	1	2685	C	C2-N1-C1'	7.40	126.94	118.80
85	5	1396	C	C5-C4-N4	-7.40	115.02	120.20
1	2	560	U	C6-N1-C2	-7.40	116.56	121.00
36	1	1065	A	C2-N3-C4	-7.40	106.90	110.60
36	1	2728	G	C6-N1-C2	-7.40	120.66	125.10
80	6	738	G	N1-C6-O6	-7.40	115.46	119.90
80	6	871	G	C6-N1-C2	7.40	129.54	125.10
85	5	584	G	N9-C4-C5	7.40	108.36	105.40
85	5	1460	A	C8-N9-C4	7.40	108.76	105.80
85	5	2814	G	N1-C2-N3	7.40	128.34	123.90
85	5	3151	U	C6-N1-C2	7.40	125.44	121.00
85	5	3370	A	C6-N1-C2	-7.40	114.16	118.60
1	2	278	U	N3-C2-O2	7.40	127.38	122.20
1	2	1432	U	C5-C6-N1	7.40	126.40	122.70
1	2	1479	U	O5'-P-OP2	-7.40	99.04	105.70
36	1	1113	G	O5'-P-OP2	-7.40	99.04	105.70
85	5	87	U	OP1-P-OP2	7.40	130.69	119.60
1	2	858	G	C4-C5-N7	-7.39	107.84	110.80
1	2	1351	G	C4-C5-N7	7.39	113.76	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	114	A	O5'-P-OP2	-7.39	99.05	105.70
36	1	611	A	OP1-P-OP2	-7.39	108.51	119.60
36	1	2337	C	C4-C5-C6	-7.39	113.70	117.40
36	1	2354	C	N1-C2-O2	-7.39	114.46	118.90
36	1	2661	G	N1-C2-N3	7.39	128.34	123.90
79	Q3	49	ARG	NE-CZ-NH1	-7.39	116.60	120.30
80	6	127	G	C6-C5-N7	-7.39	125.96	130.40
80	6	902	G	N3-C4-C5	-7.39	124.90	128.60
80	6	1144	U	N3-C4-C5	-7.39	110.16	114.60
80	6	1322	A	C6-N1-C2	-7.39	114.16	118.60
85	5	517	G	C6-N1-C2	-7.39	120.66	125.10
85	5	2939	G	N1-C2-N2	-7.39	109.55	116.20
85	5	3335	A	C6-C5-N7	-7.39	127.12	132.30
85	5	3392	U	C5-C4-O4	7.39	130.34	125.90
36	1	2941	A	C4-C5-N7	7.39	114.40	110.70
80	6	583	C	C6-N1-C2	-7.39	117.34	120.30
80	6	919	A	N1-C2-N3	7.39	133.00	129.30
85	5	2144	A	N1-C6-N6	-7.39	114.17	118.60
85	5	2288	G	C4-C5-C6	7.39	123.24	118.80
85	5	3135	U	OP1-P-O3'	7.39	121.46	105.20
85	5	3139	A	C2-N3-C4	-7.39	106.90	110.60
36	1	350	C	N3-C4-C5	7.39	124.86	121.90
36	1	1053	A	O5'-P-OP1	7.39	119.57	110.70
36	1	2191	U	C5-C6-N1	7.39	126.40	122.70
36	1	3083	G	C5-C6-O6	-7.39	124.17	128.60
80	6	96	G	OP1-P-OP2	-7.39	108.51	119.60
85	5	560	G	C5-C6-O6	-7.39	124.17	128.60
1	2	407	A	N9-C4-C5	7.39	108.76	105.80
1	2	908	G	C4-C5-N7	7.39	113.76	110.80
36	1	229	G	O5'-P-OP2	7.39	119.57	110.70
36	1	2981	U	N1-C2-N3	7.39	119.33	114.90
36	1	3075	G	C5-C6-N1	-7.39	107.81	111.50
38	4	15	G	N1-C2-N2	-7.39	109.55	116.20
80	6	678	A	P-O3'-C3'	7.39	128.57	119.70
80	6	913	G	C5-C6-N1	-7.39	107.81	111.50
85	5	554	A	C5-C6-N1	-7.39	114.01	117.70
85	5	1351	U	N3-C4-O4	-7.39	114.23	119.40
85	5	1364	C	OP2-P-O3'	7.39	121.46	105.20
85	5	1402	C	C4-C5-C6	7.39	121.09	117.40
85	5	1712	G	C4-C5-N7	7.39	113.75	110.80
85	5	2881	C	C5-C6-N1	-7.39	117.31	121.00
37	7	101	G	N1-C6-O6	7.39	124.33	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	4	C	OP1-P-O3'	7.39	121.46	105.20
36	1	1784	G	N3-C4-N9	-7.39	121.57	126.00
36	1	1896	A	C6-N1-C2	-7.39	114.17	118.60
36	1	2608	G	N3-C4-N9	-7.39	121.57	126.00
53	M7	23	ARG	NE-CZ-NH1	7.39	123.99	120.30
80	6	1030	A	C5-C6-N6	7.39	129.61	123.70
85	5	2249	G	C6-N1-C2	-7.39	120.67	125.10
85	5	2313	A	N1-C2-N3	7.39	132.99	129.30
37	7	60	G	C6-N1-C2	-7.39	120.67	125.10
1	2	281	G	N1-C6-O6	-7.39	115.47	119.90
36	1	194	U	C6-N1-C2	-7.39	116.57	121.00
36	1	359	U	C6-N1-C2	-7.39	116.57	121.00
36	1	615	U	N1-C2-N3	7.39	119.33	114.90
36	1	1067	U	C4-C5-C6	7.39	124.13	119.70
36	1	2431	C	N3-C2-O2	-7.39	116.73	121.90
85	5	586	C	N3-C4-C5	7.39	124.85	121.90
85	5	760	G	C5-C6-N1	-7.39	107.81	111.50
85	5	1873	U	C2-N1-C1'	7.39	126.56	117.70
85	5	2701	U	N3-C4-O4	7.39	124.57	119.40
85	5	2905	U	OP1-P-O3'	7.39	121.45	105.20
85	5	2959	C	N1-C2-N3	7.39	124.37	119.20
36	1	72	C	C6-N1-C2	7.38	123.25	120.30
36	1	1102	A	OP1-P-O3'	7.38	121.45	105.20
36	1	1323	G	C5-C6-N1	7.38	115.19	111.50
36	1	1734	G	N3-C4-C5	7.38	132.29	128.60
36	1	2249	G	C5-C6-N1	7.38	115.19	111.50
36	1	2287	C	C2-N3-C4	7.38	123.59	119.90
80	6	113	U	N1-C2-N3	-7.38	110.47	114.90
80	6	954	G	O5'-P-OP1	-7.38	99.05	105.70
85	5	985	U	C5-C4-O4	7.38	130.33	125.90
85	5	2778	G	N3-C4-N9	7.38	130.43	126.00
85	5	3131	U	C5-C6-N1	-7.38	119.01	122.70
38	8	32	C	O5'-P-OP1	-7.38	99.05	105.70
52	m6	16	VAL	CG1-CB-CG2	-7.38	99.08	110.90
36	1	120	G	N3-C2-N2	7.38	125.07	119.90
36	1	1807	G	C8-N9-C4	-7.38	103.45	106.40
80	6	1402	G	N3-C2-N2	7.38	125.07	119.90
85	5	513	G	C6-N1-C2	-7.38	120.67	125.10
85	5	782	U	C6-N1-C2	-7.38	116.57	121.00
85	5	2783	U	C5-C6-N1	-7.38	119.01	122.70
36	1	249	U	N1-C2-N3	7.38	119.33	114.90
36	1	574	U	N3-C2-O2	-7.38	117.03	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1118	C	OP2-P-O3'	7.38	121.44	105.20
36	1	2734	A	C5-C6-N1	7.38	121.39	117.70
80	6	470	A	C4-C5-C6	7.38	120.69	117.00
80	6	572	C	C2-N3-C4	-7.38	116.21	119.90
85	5	104	G	OP1-P-O3'	-7.38	88.96	105.20
85	5	321	C	O5'-P-OP1	-7.38	99.06	105.70
85	5	2372	A	C6-N1-C2	-7.38	114.17	118.60
85	5	2803	A	O5'-P-OP1	7.38	119.56	110.70
85	5	3312	U	O5'-P-OP2	-7.38	99.06	105.70
37	7	49	G	C5-C6-N1	-7.38	107.81	111.50
1	2	1279	A	C8-N9-C4	-7.38	102.85	105.80
36	1	1586	G	N1-C6-O6	7.38	124.33	119.90
80	6	87	C	N3-C2-O2	-7.38	116.73	121.90
85	5	823	C	N3-C2-O2	7.38	127.07	121.90
85	5	1709	C	O5'-P-OP2	-7.38	99.06	105.70
85	5	2271	A	C8-N9-C4	7.38	108.75	105.80
85	5	2762	A	O5'-P-OP1	-7.38	99.06	105.70
37	7	42	A	O5'-P-OP2	7.38	119.56	110.70
1	2	467	G	N1-C6-O6	-7.38	115.47	119.90
1	2	1016	C	O5'-P-OP2	-7.38	99.06	105.70
36	1	362	U	OP1-P-O3'	7.38	121.43	105.20
36	1	1693	C	N3-C4-N4	7.38	123.17	118.00
36	1	2748	A	C5-C6-N1	-7.38	114.01	117.70
36	1	3375	A	C5-C6-N6	7.38	129.60	123.70
80	6	121	U	C5-C4-O4	7.38	130.33	125.90
80	6	475	A	C2-N3-C4	7.38	114.29	110.60
80	6	557	G	N1-C6-O6	-7.38	115.47	119.90
85	5	168	U	C5-C6-N1	-7.38	119.01	122.70
85	5	425	G	O5'-P-OP1	7.38	119.56	110.70
85	5	1153	A	N1-C2-N3	7.38	132.99	129.30
85	5	2964	G	N3-C4-C5	-7.38	124.91	128.60
85	5	3304	U	C2-N1-C1'	7.38	126.55	117.70
38	8	79	A	C4-C5-C6	7.38	120.69	117.00
1	2	185	U	N3-C2-O2	-7.38	117.04	122.20
1	2	567	A	O5'-P-OP2	-7.38	99.06	105.70
1	2	1064	A	N1-C6-N6	-7.38	114.17	118.60
36	1	162	G	O5'-P-OP1	7.38	119.55	110.70
36	1	255	A	N1-C6-N6	-7.38	114.17	118.60
36	1	281	G	C6-N1-C2	-7.38	120.67	125.10
36	1	364	G	OP1-P-OP2	-7.38	108.54	119.60
36	1	848	A	C5-N7-C8	7.38	107.59	103.90
36	1	861	C	N1-C2-O2	-7.38	114.47	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2733	A	C5-N7-C8	7.38	107.59	103.90
73	O7	73	ARG	NE-CZ-NH2	7.38	123.99	120.30
85	5	968	G	O5'-P-OP1	-7.38	99.06	105.70
85	5	1113	G	N1-C6-O6	7.38	124.33	119.90
85	5	2576	G	N3-C2-N2	-7.38	114.74	119.90
37	7	25	G	N3-C4-C5	-7.38	124.91	128.60
36	1	274	G	N3-C2-N2	-7.38	114.74	119.90
36	1	702	C	OP1-P-OP2	-7.38	108.54	119.60
38	4	48	A	OP1-P-O3'	7.38	121.42	105.20
80	6	441	A	C4-C5-C6	7.38	120.69	117.00
80	6	1782	A	N9-C4-C5	7.38	108.75	105.80
85	5	702	C	OP1-P-OP2	-7.38	108.54	119.60
85	5	1041	U	C2-N3-C4	-7.38	122.58	127.00
85	5	1060	U	C2-N3-C4	-7.38	122.58	127.00
85	5	1876	U	C2-N3-C4	-7.38	122.58	127.00
85	5	2704	A	OP1-P-OP2	7.38	130.66	119.60
85	5	3043	C	O5'-P-OP2	7.38	119.55	110.70
85	5	3258	U	C5-C6-N1	-7.38	119.01	122.70
36	1	158	G	C4-C5-C6	7.37	123.22	118.80
36	1	616	G	N1-C6-O6	7.37	124.32	119.90
36	1	1380	G	N1-C6-O6	7.37	124.32	119.90
36	1	2102	U	N3-C2-O2	7.37	127.36	122.20
36	1	2208	A	O5'-P-OP2	-7.37	99.06	105.70
36	1	2969	A	C5-C6-N1	-7.37	114.01	117.70
36	1	3086	A	N1-C2-N3	7.37	132.99	129.30
80	6	1322	A	N1-C6-N6	-7.37	114.17	118.60
85	5	511	G	C4-C5-N7	-7.37	107.85	110.80
85	5	747	A	C2-N3-C4	-7.37	106.91	110.60
85	5	799	G	N1-C2-N2	7.37	122.83	116.20
85	5	1372	C	O5'-P-OP2	-7.37	99.06	105.70
85	5	1599	G	N9-C4-C5	-7.37	102.45	105.40
85	5	2505	U	C6-N1-C2	-7.37	116.58	121.00
85	5	3258	U	C6-N1-C2	7.37	125.42	121.00
37	7	81	U	C5-C6-N1	-7.37	119.01	122.70
38	8	95	G	N3-C4-N9	7.37	130.42	126.00
1	2	119	A	C8-N9-C4	7.37	108.75	105.80
1	2	299	A	C5-C6-N1	7.37	121.39	117.70
36	1	558	U	N1-C2-O2	7.37	127.96	122.80
36	1	2851	A	C5-C6-N1	-7.37	114.01	117.70
36	1	3052	G	C4-C5-C6	7.37	123.22	118.80
36	1	3295	A	O5'-P-OP1	-7.37	99.07	105.70
80	6	163	G	C5-C6-O6	7.37	133.02	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	107	A	C5-C6-N1	7.37	121.39	117.70
85	5	693	A	O4'-C1'-N9	7.37	114.10	108.20
85	5	927	C	N1-C2-O2	-7.37	114.48	118.90
85	5	1113	G	N3-C4-N9	-7.37	121.58	126.00
85	5	1538	G	N9-C4-C5	7.37	108.35	105.40
85	5	1656	A	C5-C6-N1	7.37	121.39	117.70
85	5	2962	U	O5'-P-OP2	-7.37	99.07	105.70
38	8	3	A	N1-C6-N6	7.37	123.02	118.60
36	1	538	G	O5'-P-OP2	-7.37	99.07	105.70
36	1	2721	A	C5-C6-N1	-7.37	114.02	117.70
85	5	1505	C	C5-C4-N4	7.37	125.36	120.20
85	5	3000	A	C5-N7-C8	-7.37	100.22	103.90
1	2	407	A	C5-N7-C8	7.37	107.58	103.90
36	1	332	C	OP2-P-O3'	7.37	121.41	105.20
36	1	914	A	N7-C8-N9	-7.37	110.12	113.80
36	1	1006	A	N9-C4-C5	7.37	108.75	105.80
36	1	3064	U	N3-C4-O4	7.37	124.56	119.40
68	O2	111	ARG	NE-CZ-NH1	-7.37	116.62	120.30
85	5	217	U	N3-C4-O4	7.37	124.56	119.40
85	5	402	A	N3-C4-N9	7.37	133.29	127.40
85	5	631	U	C6-N1-C2	-7.37	116.58	121.00
85	5	947	G	C5-N7-C8	-7.37	100.62	104.30
85	5	2095	G	N9-C4-C5	-7.37	102.45	105.40
85	5	2541	U	N1-C2-O2	7.37	127.96	122.80
85	5	2801	A	N3-C4-N9	7.37	133.29	127.40
36	1	338	A	C6-N1-C2	-7.37	114.18	118.60
36	1	1111	U	N3-C2-O2	7.37	127.36	122.20
36	1	2526	C	C5-C6-N1	7.37	124.68	121.00
36	1	2605	G	OP1-P-O3'	7.37	121.41	105.20
80	6	534	A	C4-C5-N7	-7.37	107.02	110.70
85	5	1050	U	OP1-P-OP2	-7.37	108.55	119.60
37	7	12	U	N3-C2-O2	7.37	127.36	122.20
1	2	149	C	N1-C2-O2	7.37	123.32	118.90
1	2	228	G	C8-N9-C4	7.37	109.35	106.40
1	2	341	A	N7-C8-N9	7.37	117.48	113.80
1	2	368	U	N1-C2-O2	7.37	127.96	122.80
1	2	1005	C	N1-C2-N3	7.37	124.36	119.20
36	1	395	A	C5-N7-C8	-7.37	100.22	103.90
36	1	717	C	N1-C2-N3	7.37	124.36	119.20
36	1	1179	A	OP2-P-O3'	7.37	121.40	105.20
36	1	1447	G	O5'-P-OP1	-7.37	99.07	105.70
36	1	1758	G	C4-C5-N7	-7.37	107.85	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2760	C	C5-C4-N4	-7.37	115.05	120.20
36	1	2961	G	C5-C6-N1	-7.37	107.82	111.50
36	1	3273	A	N1-C2-N3	7.37	132.98	129.30
37	3	73	C	N1-C2-N3	-7.37	114.05	119.20
85	5	377	A	O4'-C1'-N9	7.37	114.09	108.20
85	5	916	G	C8-N9-C4	-7.37	103.45	106.40
85	5	950	G	N3-C4-N9	7.37	130.42	126.00
85	5	1222	G	N1-C6-O6	7.37	124.32	119.90
85	5	2579	G	N7-C8-N9	7.37	116.78	113.10
1	2	847	U	C5-C4-O4	7.36	130.32	125.90
36	1	898	U	C4-C5-C6	-7.36	115.28	119.70
36	1	1157	G	OP2-P-O3'	7.36	121.40	105.20
36	1	1779	C	C2-N3-C4	7.36	123.58	119.90
36	1	1883	A	C6-N1-C2	-7.36	114.18	118.60
36	1	2634	U	OP1-P-OP2	-7.36	108.56	119.60
36	1	3033	A	OP1-P-OP2	-7.36	108.56	119.60
80	6	359	A	C5-C6-N1	-7.36	114.02	117.70
80	6	586	G	C4-C5-N7	-7.36	107.86	110.80
80	6	1133	A	C4-C5-N7	7.36	114.38	110.70
85	5	235	A	N1-C2-N3	7.36	132.98	129.30
85	5	304	G	N1-C2-N3	7.36	128.32	123.90
85	5	653	A	C6-N1-C2	-7.36	114.18	118.60
85	5	1065	A	O5'-P-OP2	7.36	119.54	110.70
85	5	1120	A	O5'-P-OP1	7.36	119.54	110.70
85	5	1604	G	C6-N1-C2	-7.36	120.68	125.10
85	5	2405	C	O5'-P-OP1	7.36	119.54	110.70
85	5	2519	A	N7-C8-N9	7.36	117.48	113.80
85	5	2693	C	OP1-P-OP2	7.36	130.65	119.60
85	5	2799	A	N3-C4-C5	-7.36	121.65	126.80
85	5	3101	G	C6-C5-N7	7.36	134.82	130.40
36	1	3256	G	C6-N1-C2	7.36	129.52	125.10
78	Q2	17	CYS	CA-CB-SG	7.36	127.25	114.00
80	6	413	U	C5-C6-N1	-7.36	119.02	122.70
85	5	1390	A	C8-N9-C4	-7.36	102.86	105.80
1	2	931	G	OP1-P-OP2	-7.36	108.56	119.60
1	2	1400	A	C4-C5-C6	7.36	120.68	117.00
36	1	578	A	N7-C8-N9	-7.36	110.12	113.80
36	1	2411	U	N1-C2-O2	-7.36	117.65	122.80
36	1	2864	A	N9-C4-C5	7.36	108.74	105.80
38	4	22	U	C5-C6-N1	-7.36	119.02	122.70
80	6	1788	G	C5-C6-N1	-7.36	107.82	111.50
85	5	602	A	C5-C6-N1	-7.36	114.02	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1208	U	N3-C4-O4	-7.36	114.25	119.40
85	5	2958	A	N1-C2-N3	7.36	132.98	129.30
85	5	3211	C	N1-C2-O2	-7.36	114.48	118.90
36	1	1402	C	N1-C2-O2	-7.36	114.48	118.90
36	1	1405	U	OP1-P-O3'	7.36	121.39	105.20
36	1	3028	G	N3-C2-N2	7.36	125.05	119.90
80	6	1063	U	N3-C4-O4	7.36	124.55	119.40
85	5	600	G	O5'-P-OP2	-7.36	99.08	105.70
85	5	1219	C	C6-N1-C2	7.36	123.24	120.30
85	5	3292	A	C8-N9-C4	7.36	108.74	105.80
85	5	3310	A	C6-N1-C2	-7.36	114.18	118.60
1	2	500	C	C6-N1-C2	-7.36	117.36	120.30
1	2	536	C	C2-N3-C4	7.36	123.58	119.90
1	2	553	G	C4-C5-N7	7.36	113.74	110.80
36	1	946	U	N3-C2-O2	-7.36	117.05	122.20
36	1	1392	G	N3-C4-N9	7.36	130.41	126.00
36	1	1508	C	C4-C5-C6	7.36	121.08	117.40
36	1	1513	G	N1-C6-O6	-7.36	115.49	119.90
36	1	2150	G	C6-C5-N7	-7.36	125.98	130.40
36	1	2273	G	N7-C8-N9	-7.36	109.42	113.10
80	6	146	U	C5-C6-N1	7.36	126.38	122.70
80	6	757	A	C5-C6-N6	7.36	129.59	123.70
80	6	977	A	N1-C6-N6	7.36	123.02	118.60
85	5	852	U	N1-C2-N3	7.36	119.31	114.90
85	5	1198	C	N3-C4-N4	-7.36	112.85	118.00
85	5	1703	U	C6-N1-C2	-7.36	116.58	121.00
85	5	2305	G	N3-C4-C5	-7.36	124.92	128.60
85	5	2882	U	N1-C2-O2	-7.36	117.65	122.80
85	5	2945	G	C5-C6-N1	-7.36	107.82	111.50
85	5	3348	G	N9-C4-C5	-7.36	102.46	105.40
37	7	17	A	N9-C4-C5	-7.36	102.86	105.80
1	2	427	C	C2-N3-C4	-7.36	116.22	119.90
1	2	884	G	C8-N9-C4	-7.36	103.46	106.40
1	2	1469	G	OP1-P-OP2	7.36	130.63	119.60
36	1	390	G	C5-N7-C8	-7.36	100.62	104.30
36	1	785	G	C4-C5-C6	-7.36	114.39	118.80
36	1	1508	C	N1-C2-N3	7.36	124.35	119.20
36	1	2877	G	N1-C2-N2	-7.36	109.58	116.20
36	1	3303	G	O5'-P-OP1	7.36	119.53	110.70
85	5	680	G	N1-C2-N2	-7.36	109.58	116.20
85	5	1173	U	N3-C2-O2	-7.36	117.05	122.20
85	5	1534	A	N3-C4-C5	-7.36	121.65	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2622	C	N3-C4-C5	-7.36	118.96	121.90
85	5	2808	A	O5'-P-OP2	-7.36	99.08	105.70
1	2	617	U	C5-C4-O4	-7.35	121.49	125.90
1	2	1507	A	N7-C8-N9	7.35	117.48	113.80
36	1	2938	G	N1-C2-N3	7.35	128.31	123.90
85	5	1323	G	OP2-P-O3'	7.35	121.38	105.20
85	5	2124	G	C6-C5-N7	-7.35	125.99	130.40
1	2	25	C	C5-C4-N4	-7.35	115.05	120.20
1	2	90	C	N3-C2-O2	-7.35	116.75	121.90
36	1	813	G	OP1-P-OP2	-7.35	108.57	119.60
36	1	1648	A	C5-C6-N6	7.35	129.58	123.70
36	1	2191	U	C6-N1-C2	-7.35	116.59	121.00
80	6	778	G	C6-C5-N7	7.35	134.81	130.40
80	6	978	A	C6-N1-C2	-7.35	114.19	118.60
80	6	1099	U	O5'-P-OP1	-7.35	99.08	105.70
80	6	1100	G	OP1-P-OP2	-7.35	108.57	119.60
80	6	1137	A	N3-C4-N9	-7.35	121.52	127.40
85	5	756	U	N3-C2-O2	7.35	127.35	122.20
85	5	806	A	C5-C6-N6	-7.35	117.82	123.70
85	5	892	U	O5'-P-OP1	7.35	119.52	110.70
85	5	1112	A	C2-N3-C4	7.35	114.28	110.60
85	5	1211	U	N3-C2-O2	7.35	127.35	122.20
85	5	1841	A	C8-N9-C4	-7.35	102.86	105.80
85	5	2117	A	C4-C5-N7	-7.35	107.02	110.70
85	5	2989	U	C4-C5-C6	-7.35	115.29	119.70
85	5	3044	G	C5-N7-C8	-7.35	100.62	104.30
1	2	624	G	N1-C6-O6	-7.35	115.49	119.90
36	1	143	G	C5-C6-N1	7.35	115.17	111.50
36	1	1375	G	N3-C4-N9	-7.35	121.59	126.00
36	1	3150	A	C8-N9-C4	-7.35	102.86	105.80
36	1	3310	A	C5-C6-N1	-7.35	114.03	117.70
38	4	59	A	C8-N9-C4	-7.35	102.86	105.80
85	5	596	C	N3-C4-N4	7.35	123.15	118.00
85	5	629	U	C5-C6-N1	7.35	126.38	122.70
85	5	1382	G	O5'-P-OP2	-7.35	99.08	105.70
85	5	1497	C	N3-C2-O2	7.35	127.05	121.90
85	5	2514	U	N1-C2-O2	-7.35	117.65	122.80
1	2	435	C	C5-C4-N4	7.35	125.34	120.20
1	2	1372	C	N3-C2-O2	-7.35	116.75	121.90
36	1	42	C	N3-C2-O2	-7.35	116.76	121.90
36	1	325	A	C5-C6-N1	7.35	121.38	117.70
36	1	608	A	C5-N7-C8	-7.35	100.22	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1028	U	C2-N3-C4	7.35	131.41	127.00
36	1	3340	G	N9-C4-C5	7.35	108.34	105.40
80	6	1050	G	C5-C6-O6	-7.35	124.19	128.60
80	6	1395	G	C2-N3-C4	-7.35	108.22	111.90
80	6	1461	C	N1-C2-O2	7.35	123.31	118.90
85	5	203	G	C5-C6-O6	-7.35	124.19	128.60
85	5	1180	A	N1-C2-N3	7.35	132.97	129.30
1	2	1126	A	OP1-P-OP2	-7.35	108.58	119.60
1	2	1497	U	N1-C2-O2	7.35	127.94	122.80
36	1	1529	A	C4-C5-N7	7.35	114.37	110.70
36	1	2864	A	C6-N1-C2	-7.35	114.19	118.60
36	1	2939	G	C5-N7-C8	7.35	107.97	104.30
80	6	1772	C	N3-C4-C5	-7.35	118.96	121.90
85	5	3251	U	C5-C6-N1	-7.35	119.03	122.70
85	5	3331	U	C4-C5-C6	-7.35	115.29	119.70
1	2	191	C	N1-C2-O2	7.35	123.31	118.90
36	1	277	G	N1-C2-N2	7.35	122.81	116.20
36	1	335	G	N1-C2-N2	7.35	122.81	116.20
36	1	1864	A	C5-N7-C8	-7.35	100.23	103.90
85	5	1039	U	N1-C2-N3	-7.35	110.49	114.90
85	5	1263	A	C5-C6-N1	-7.35	114.03	117.70
85	5	1410	U	C5-C6-N1	-7.35	119.03	122.70
85	5	1635	G	OP1-P-OP2	7.35	130.62	119.60
36	1	681	U	N3-C4-O4	7.34	124.54	119.40
36	1	777	U	OP1-P-O3'	7.34	121.36	105.20
36	1	1201	C	N1-C2-N3	-7.34	114.06	119.20
36	1	1583	A	N1-C2-N3	7.34	132.97	129.30
36	1	2156	C	C4-C5-C6	7.34	121.07	117.40
80	6	1012	U	C2-N3-C4	-7.34	122.59	127.00
85	5	1160	C	N1-C2-O2	-7.34	114.49	118.90
85	5	1176	C	N3-C2-O2	7.34	127.04	121.90
85	5	1285	G	C6-N1-C2	-7.34	120.69	125.10
85	5	1329	U	N1-C2-N3	7.34	119.31	114.90
85	5	1403	C	N1-C2-N3	7.34	124.34	119.20
85	5	1690	C	N3-C4-C5	-7.34	118.96	121.90
85	5	2305	G	N1-C2-N2	-7.34	109.59	116.20
85	5	3213	A	C5-C6-N1	7.34	121.37	117.70
1	2	607	G	N7-C8-N9	7.34	116.77	113.10
1	2	1003	A	N1-C2-N3	7.34	132.97	129.30
1	2	1761	G	N7-C8-N9	7.34	116.77	113.10
36	1	693	A	C2-N3-C4	-7.34	106.93	110.60
36	1	917	A	C6-N1-C2	-7.34	114.19	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1082	U	N3-C2-O2	-7.34	117.06	122.20
36	1	1697	A	O5'-P-OP2	7.34	119.51	110.70
85	5	1290	A	C5-C6-N1	-7.34	114.03	117.70
85	5	3130	A	C5-C6-N1	7.34	121.37	117.70
1	2	404	G	O5'-P-OP1	-7.34	99.09	105.70
1	2	1508	A	C8-N9-C4	-7.34	102.86	105.80
36	1	559	A	C6-C5-N7	-7.34	127.16	132.30
36	1	2134	G	C6-C5-N7	7.34	134.81	130.40
36	1	2161	G	N1-C2-N3	-7.34	119.50	123.90
36	1	2725	U	OP1-P-OP2	-7.34	108.59	119.60
36	1	2934	A	C6-N1-C2	-7.34	114.19	118.60
36	1	2945	G	N9-C4-C5	-7.34	102.46	105.40
37	3	8	G	N3-C4-C5	7.34	132.27	128.60
80	6	985	G	N3-C4-C5	7.34	132.27	128.60
85	5	377	A	C4-C5-N7	7.34	114.37	110.70
85	5	964	G	N7-C8-N9	7.34	116.77	113.10
85	5	1506	A	C6-N1-C2	7.34	123.00	118.60
85	5	1601	U	C2-N3-C4	7.34	131.41	127.00
85	5	2282	U	O5'-P-OP2	7.34	119.51	110.70
85	5	2304	C	N3-C4-C5	-7.34	118.96	121.90
85	5	2718	U	C2-N3-C4	-7.34	122.59	127.00
85	5	2736	A	N1-C2-N3	7.34	132.97	129.30
85	5	3198	U	N3-C2-O2	7.34	127.34	122.20
37	7	109	G	N3-C4-N9	-7.34	121.59	126.00
1	2	477	A	OP1-P-OP2	-7.34	108.59	119.60
1	2	1351	G	N1-C6-O6	7.34	124.30	119.90
36	1	870	G	C6-N1-C2	-7.34	120.70	125.10
36	1	1379	G	O4'-C1'-N9	-7.34	102.33	108.20
36	1	2364	G	C6-C5-N7	7.34	134.80	130.40
36	1	2880	U	OP1-P-OP2	7.34	130.61	119.60
36	1	3159	C	C4-C5-C6	7.34	121.07	117.40
49	M3	39	ARG	NE-CZ-NH2	-7.34	116.63	120.30
80	6	327	U	C5-C4-O4	-7.34	121.50	125.90
80	6	849	C	C6-N1-C2	7.34	123.24	120.30
85	5	57	A	C5-C6-N1	-7.34	114.03	117.70
85	5	182	U	N1-C2-O2	-7.34	117.66	122.80
85	5	336	A	C8-N9-C4	7.34	108.74	105.80
85	5	979	U	N1-C2-O2	-7.34	117.66	122.80
85	5	1541	G	N3-C4-C5	7.34	132.27	128.60
85	5	2136	C	C5-C6-N1	-7.34	117.33	121.00
85	5	2376	G	C4-C5-C6	7.34	123.20	118.80
36	1	1052	U	C6-N1-C2	7.34	125.40	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	562	G	C5-C6-O6	-7.34	124.20	128.60
85	5	1924	U	N1-C2-N3	7.34	119.30	114.90
38	8	114	G	C4-C5-N7	7.34	113.73	110.80
1	2	226	A	N1-C2-N3	7.34	132.97	129.30
1	2	1549	U	N3-C4-O4	7.34	124.54	119.40
36	1	3101	G	C5-C6-O6	7.34	133.00	128.60
37	3	110	G	C8-N9-C4	7.34	109.33	106.40
80	6	469	C	N3-C4-C5	7.34	124.83	121.90
80	6	677	G	C5-C6-N1	-7.34	107.83	111.50
80	6	1216	C	N3-C2-O2	-7.34	116.76	121.90
85	5	3089	C	OP1-P-O3'	7.34	121.34	105.20
1	2	1634	A	C5-C6-N1	-7.33	114.03	117.70
36	1	275	U	C2-N3-C4	7.33	131.40	127.00
36	1	2360	C	N3-C4-C5	-7.33	118.97	121.90
36	1	2662	G	C2-N3-C4	-7.33	108.23	111.90
80	6	1105	C	OP1-P-OP2	-7.33	108.60	119.60
85	5	719	U	C5-C4-O4	7.33	130.30	125.90
85	5	1055	A	N1-C2-N3	7.33	132.97	129.30
85	5	1561	G	OP1-P-OP2	-7.33	108.60	119.60
85	5	2106	A	C5-N7-C8	-7.33	100.23	103.90
85	5	2778	G	C8-N9-C4	7.33	109.33	106.40
85	5	3217	C	C6-N1-C2	7.33	123.23	120.30
85	5	3388	C	C4-C5-C6	7.33	121.07	117.40
1	2	1079	C	C2-N3-C4	7.33	123.57	119.90
36	1	1334	U	C5-C6-N1	-7.33	119.03	122.70
36	1	1600	U	O5'-P-OP1	7.33	119.50	110.70
36	1	1908	A	C8-N9-C4	7.33	108.73	105.80
36	1	2575	G	N1-C6-O6	7.33	124.30	119.90
36	1	2853	A	C5-C6-N1	7.33	121.37	117.70
36	1	3135	U	N1-C2-O2	-7.33	117.67	122.80
36	1	3216	G	C6-N1-C2	-7.33	120.70	125.10
85	5	1192	C	C6-N1-C1'	-7.33	112.00	120.80
85	5	1581	C	N3-C2-O2	7.33	127.03	121.90
85	5	2363	A	C2-N3-C4	-7.33	106.93	110.60
85	5	2642	A	N1-C2-N3	7.33	132.97	129.30
85	5	2841	G	N3-C2-N2	7.33	125.03	119.90
85	5	3343	G	C4-C5-C6	7.33	123.20	118.80
36	1	636	C	C2-N1-C1'	7.33	126.86	118.80
36	1	1727	G	C5-N7-C8	-7.33	100.63	104.30
36	1	2333	C	N1-C2-N3	7.33	124.33	119.20
36	1	3273	A	N1-C6-N6	-7.33	114.20	118.60
38	4	30	C	O5'-P-OP1	-7.33	99.10	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1498	G	C4-N9-C1'	-7.33	116.97	126.50
80	6	1772	C	N1-C2-N3	7.33	124.33	119.20
85	5	616	G	C5-C6-N1	-7.33	107.83	111.50
85	5	718	G	N3-C4-C5	-7.33	124.94	128.60
85	5	1044	U	N3-C4-C5	-7.33	110.20	114.60
85	5	1377	G	N1-C2-N2	-7.33	109.60	116.20
85	5	1588	A	C5-N7-C8	7.33	107.57	103.90
85	5	1597	C	N3-C4-N4	7.33	123.13	118.00
85	5	1899	G	C8-N9-C4	-7.33	103.47	106.40
85	5	2233	A	N9-C4-C5	7.33	108.73	105.80
85	5	2600	C	C2-N3-C4	-7.33	116.23	119.90
37	7	110	G	N3-C4-C5	7.33	132.27	128.60
36	1	324	A	C5-C6-N6	7.33	129.56	123.70
36	1	1954	G	C8-N9-C4	7.33	109.33	106.40
36	1	2946	A	OP2-P-O3'	7.33	121.33	105.20
80	6	1291	G	N1-C6-O6	-7.33	115.50	119.90
80	6	1577	A	C5-C6-N1	-7.33	114.03	117.70
80	6	1649	G	C2-N3-C4	-7.33	108.23	111.90
37	7	10	C	N3-C2-O2	-7.33	116.77	121.90
1	2	952	C	C5-C4-N4	-7.33	115.07	120.20
1	2	1639	U	N3-C2-O2	7.33	127.33	122.20
36	1	79	U	C5-C4-O4	7.33	130.30	125.90
36	1	424	G	O5'-P-OP2	-7.33	99.11	105.70
36	1	864	G	C5-C6-N1	-7.33	107.84	111.50
36	1	1774	C	N3-C4-N4	-7.33	112.87	118.00
36	1	2584	G	N1-C2-N3	7.33	128.30	123.90
36	1	2651	G	C2-N3-C4	-7.33	108.24	111.90
36	1	2945	G	N3-C4-C5	7.33	132.26	128.60
36	1	3309	G	C5-C6-N1	-7.33	107.83	111.50
37	3	2	G	N9-C4-C5	7.33	108.33	105.40
80	6	590	C	N3-C4-N4	7.33	123.13	118.00
80	6	750	U	N1-C2-O2	-7.33	117.67	122.80
80	6	1726	G	N1-C2-N2	-7.33	109.60	116.20
85	5	515	C	O4'-C1'-N1	-7.33	102.34	108.20
85	5	911	C	C2-N3-C4	7.33	123.56	119.90
1	2	728	U	N3-C4-C5	-7.33	110.20	114.60
36	1	53	G	N7-C8-N9	-7.33	109.44	113.10
36	1	2519	A	C5-N7-C8	-7.33	100.24	103.90
85	5	1180	A	C5-N7-C8	7.33	107.56	103.90
85	5	3342	A	C6-N1-C2	-7.33	114.20	118.60
36	1	579	G	OP2-P-O3'	7.33	121.32	105.20
36	1	1377	G	C4-C5-N7	7.33	113.73	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2158	A	O5'-P-OP2	-7.33	99.11	105.70
36	1	2877	G	N9-C4-C5	7.33	108.33	105.40
80	6	412	A	OP1-P-OP2	7.33	130.59	119.60
80	6	860	U	N3-C2-O2	-7.33	117.07	122.20
80	6	1135	U	C5-C4-O4	-7.33	121.50	125.90
85	5	355	A	N9-C4-C5	7.33	108.73	105.80
36	1	64	G	N3-C4-C5	-7.32	124.94	128.60
36	1	893	C	N3-C4-N4	7.32	123.13	118.00
36	1	1373	A	O5'-P-OP2	-7.32	99.11	105.70
36	1	1395	G	C4-C5-N7	7.32	113.73	110.80
36	1	3207	U	N3-C4-C5	-7.32	110.21	114.60
85	5	729	C	OP1-P-OP2	-7.32	108.61	119.60
85	5	2340	U	O5'-P-OP2	7.32	119.49	110.70
85	5	2815	G	C8-N9-C4	-7.32	103.47	106.40
85	5	3105	U	N3-C4-O4	-7.32	114.27	119.40
85	5	3183	A	N9-C4-C5	7.32	108.73	105.80
1	2	975	A	C5-N7-C8	-7.32	100.24	103.90
36	1	363	G	N3-C4-C5	-7.32	124.94	128.60
36	1	390	G	N1-C6-O6	7.32	124.29	119.90
36	1	2359	C	N3-C4-N4	7.32	123.12	118.00
36	1	2412	G	C6-N1-C2	-7.32	120.71	125.10
85	5	164	A	C4-C5-N7	7.32	114.36	110.70
1	2	831	C	N1-C2-O2	7.32	123.29	118.90
36	1	854	G	C6-N1-C2	-7.32	120.71	125.10
36	1	882	A	N1-C6-N6	7.32	122.99	118.60
36	1	1415	U	N1-C2-N3	7.32	119.29	114.90
36	1	2438	A	OP1-P-OP2	-7.32	108.62	119.60
36	1	2974	U	C5-C6-N1	7.32	126.36	122.70
36	1	3338	C	N1-C2-O2	7.32	123.29	118.90
36	1	3387	U	C5-C6-N1	-7.32	119.04	122.70
80	6	863	A	C4-C5-N7	7.32	114.36	110.70
80	6	1649	G	O5'-P-OP2	-7.32	99.11	105.70
85	5	2106	A	C4-C5-N7	7.32	114.36	110.70
85	5	2269	U	N3-C4-C5	-7.32	110.21	114.60
85	5	2600	C	N1-C2-N3	7.32	124.32	119.20
85	5	3073	A	OP1-P-OP2	-7.32	108.62	119.60
38	8	28	C	N3-C2-O2	7.32	127.02	121.90
50	m4	68	LEU	CB-CG-CD2	-7.32	98.55	111.00
1	2	1485	G	N1-C6-O6	-7.32	115.51	119.90
36	1	679	U	C5-C6-N1	-7.32	119.04	122.70
36	1	885	U	N1-C2-N3	7.32	119.29	114.90
36	1	2734	A	C5-N7-C8	-7.32	100.24	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2778	G	N3-C4-C5	7.32	132.26	128.60
1	2	271	A	C5-C6-N1	-7.32	114.04	117.70
1	2	316	A	C2-N3-C4	7.32	114.26	110.60
36	1	38	U	C2-N3-C4	7.32	131.39	127.00
36	1	875	G	N1-C2-N3	7.32	128.29	123.90
36	1	1905	G	N9-C4-C5	7.32	108.33	105.40
36	1	3092	C	C6-N1-C2	-7.32	117.37	120.30
85	5	1008	U	C5-C6-N1	-7.32	119.04	122.70
85	5	1661	G	C8-N9-C1'	7.32	136.51	127.00
85	5	2142	A	C4-C5-N7	-7.32	107.04	110.70
85	5	2428	U	N3-C4-C5	-7.32	110.21	114.60
85	5	2756	C	N3-C2-O2	7.32	127.02	121.90
85	5	2908	G	N3-C4-N9	-7.32	121.61	126.00
85	5	2973	G	N9-C4-C5	7.32	108.33	105.40
1	2	718	C	C6-N1-C2	-7.32	117.37	120.30
1	2	1530	A	C8-N9-C4	-7.32	102.87	105.80
36	1	501	A	OP1-P-O3'	7.32	121.30	105.20
36	1	742	G	O5'-P-OP2	-7.32	99.12	105.70
36	1	1699	A	OP1-P-OP2	7.32	130.57	119.60
85	5	319	A	C2-N3-C4	-7.32	106.94	110.60
85	5	668	G	N1-C2-N2	-7.32	109.62	116.20
85	5	997	A	C8-N9-C4	-7.32	102.87	105.80
85	5	1422	G	O5'-P-OP1	-7.32	99.11	105.70
85	5	1829	G	C4-C5-N7	7.32	113.73	110.80
85	5	1912	U	N3-C2-O2	7.32	127.32	122.20
37	7	27	A	N7-C8-N9	7.32	117.46	113.80
52	m6	194	LEU	CA-CB-CG	7.32	132.13	115.30
88	n4	23	ARG	NE-CZ-NH1	-7.32	116.64	120.30
1	2	797	A	C5-N7-C8	-7.31	100.24	103.90
36	1	45	A	C5-C6-N1	-7.31	114.04	117.70
47	M0	35	ASP	CB-CG-OD2	7.31	124.88	118.30
80	6	1638	G	N1-C2-N3	7.31	128.29	123.90
85	5	751	A	N1-C2-N3	7.31	132.96	129.30
1	2	1750	G	C5-C6-N1	7.31	115.16	111.50
36	1	494	G	N1-C2-N3	-7.31	119.51	123.90
36	1	1140	G	N1-C2-N2	-7.31	109.62	116.20
36	1	1185	C	O5'-P-OP1	7.31	119.47	110.70
36	1	1304	A	C5-C6-N6	7.31	129.55	123.70
36	1	2601	A	C2-N3-C4	7.31	114.26	110.60
36	1	3278	C	C2-N1-C1'	7.31	126.84	118.80
80	6	783	G	N3-C4-C5	-7.31	124.94	128.60
85	5	1152	G	N3-C4-N9	-7.31	121.61	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1161	G	OP1-P-OP2	-7.31	108.63	119.60
85	5	1753	G	C8-N9-C4	7.31	109.33	106.40
85	5	1919	G	C5-C6-N1	-7.31	107.84	111.50
85	5	2189	U	C6-N1-C2	-7.31	116.61	121.00
85	5	2311	G	N1-C6-O6	-7.31	115.51	119.90
85	5	2739	A	C2-N3-C4	7.31	114.26	110.60
85	5	3377	G	O5'-P-OP2	-7.31	99.12	105.70
38	8	70	G	C5-C6-O6	7.31	132.99	128.60
36	1	1436	U	C4-C5-C6	-7.31	115.31	119.70
36	1	1695	U	C5-C6-N1	-7.31	119.04	122.70
38	4	157	U	N3-C2-O2	-7.31	117.08	122.20
85	5	388	G	C4-C5-N7	7.31	113.72	110.80
85	5	1385	C	C2-N3-C4	7.31	123.56	119.90
85	5	1419	A	N9-C4-C5	-7.31	102.88	105.80
85	5	3093	C	C5-C6-N1	-7.31	117.34	121.00
36	1	249	U	C5-C4-O4	7.31	130.29	125.90
36	1	286	U	C2-N1-C1'	7.31	126.47	117.70
36	1	393	U	O4'-C1'-N1	7.31	114.05	108.20
36	1	2715	A	C5-N7-C8	7.31	107.56	103.90
80	6	173	A	C6-C5-N7	-7.31	127.18	132.30
85	5	883	A	C5-C6-N6	7.31	129.55	123.70
85	5	1187	C	C2-N3-C4	-7.31	116.25	119.90
85	5	1541	G	C4-C5-N7	7.31	113.72	110.80
85	5	2230	C	N1-C2-O2	-7.31	114.51	118.90
37	7	94	C	C4-C5-C6	-7.31	113.75	117.40
1	2	1468	C	C6-N1-C2	7.31	123.22	120.30
1	2	1578	U	C5-C6-N1	-7.31	119.05	122.70
1	2	1733	A	N1-C2-N3	7.31	132.95	129.30
36	1	497	C	N3-C4-C5	7.31	124.82	121.90
36	1	615	U	C6-N1-C2	-7.31	116.61	121.00
36	1	1673	G	N1-C6-O6	7.31	124.28	119.90
36	1	2689	A	O5'-P-OP2	7.31	119.47	110.70
36	1	3231	U	C4-C5-C6	7.31	124.08	119.70
80	6	524	U	N3-C2-O2	-7.31	117.08	122.20
80	6	926	A	C2-N3-C4	-7.31	106.95	110.60
85	5	853	G	C2-N3-C4	-7.31	108.25	111.90
85	5	880	G	N1-C6-O6	-7.31	115.52	119.90
37	7	114	U	N3-C4-O4	7.31	124.52	119.40
1	2	502	U	N1-C2-N3	-7.31	110.52	114.90
1	2	1605	G	C8-N9-C4	7.31	109.32	106.40
36	1	3040	A	N1-C2-N3	7.31	132.95	129.30
80	6	892	A	C5-C6-N1	-7.31	114.05	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1659	A	N7-C8-N9	7.31	117.45	113.80
85	5	814	U	C4-C5-C6	-7.31	115.32	119.70
37	7	90	U	C6-N1-C2	-7.31	116.62	121.00
1	2	338	C	N1-C2-N3	7.30	124.31	119.20
1	2	459	G	C4-C5-N7	7.30	113.72	110.80
1	2	747	U	N3-C4-C5	-7.30	110.22	114.60
1	2	1744	U	N3-C4-C5	-7.30	110.22	114.60
36	1	845	G	N1-C2-N3	7.30	128.28	123.90
36	1	936	A	N3-C4-C5	7.30	131.91	126.80
36	1	1409	G	C5-C6-O6	7.30	132.98	128.60
36	1	1436	U	C5-C6-N1	7.30	126.35	122.70
36	1	2727	A	C6-N1-C2	-7.30	114.22	118.60
36	1	2739	A	C4-C5-N7	7.30	114.35	110.70
36	1	2771	U	N1-C2-N3	-7.30	110.52	114.90
36	1	3301	U	N3-C4-O4	-7.30	114.29	119.40
85	5	134	U	C5-C6-N1	-7.30	119.05	122.70
85	5	604	G	C8-N9-C4	-7.30	103.48	106.40
85	5	1718	G	C6-C5-N7	-7.30	126.02	130.40
85	5	2761	G	N1-C2-N3	7.30	128.28	123.90
85	5	3246	G	N1-C6-O6	7.30	124.28	119.90
85	5	3384	U	N3-C4-O4	7.30	124.51	119.40
37	7	73	C	C2-N3-C4	7.30	123.55	119.90
36	1	18	G	N1-C2-N3	7.30	128.28	123.90
36	1	564	G	C5-C6-N1	7.30	115.15	111.50
38	4	142	C	C5-C4-N4	-7.30	115.09	120.20
80	6	1666	U	OP2-P-O3'	7.30	121.27	105.20
85	5	612	U	OP1-P-O3'	-7.30	89.13	105.20
85	5	945	C	C4-C5-C6	7.30	121.05	117.40
37	7	30	G	C6-N1-C2	-7.30	120.72	125.10
1	2	1178	C	N3-C4-C5	7.30	124.82	121.90
36	1	427	C	O4'-C1'-N1	-7.30	102.36	108.20
36	1	494	G	OP1-P-OP2	7.30	130.55	119.60
36	1	2198	A	C5-C6-N6	7.30	129.54	123.70
36	1	2533	G	N9-C4-C5	-7.30	102.48	105.40
36	1	2941	A	C5-N7-C8	-7.30	100.25	103.90
38	4	84	C	N1-C2-N3	7.30	124.31	119.20
80	6	180	A	C8-N9-C4	7.30	108.72	105.80
80	6	1645	G	N1-C2-N2	7.30	122.77	116.20
85	5	41	G	C4-C5-N7	7.30	113.72	110.80
85	5	1902	G	O5'-P-OP1	-7.30	99.13	105.70
85	5	2935	U	N3-C2-O2	7.30	127.31	122.20
85	5	3339	A	N1-C6-N6	7.30	122.98	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	115	C	N1-C2-O2	-7.30	114.52	118.90
1	2	338	C	N1-C2-O2	-7.30	114.52	118.90
1	2	1284	U	C5-C6-N1	7.30	126.35	122.70
1	2	1612	G	N3-C4-C5	-7.30	124.95	128.60
36	1	1503	A	N1-C2-N3	7.30	132.95	129.30
36	1	2392	C	O5'-P-OP2	-7.30	99.13	105.70
36	1	2597	U	N3-C4-C5	-7.30	110.22	114.60
36	1	2621	G	C4-C5-C6	7.30	123.18	118.80
80	6	230	C	C5-C6-N1	7.30	124.65	121.00
80	6	419	G	N3-C2-N2	7.30	125.01	119.90
80	6	1299	G	C2-N3-C4	-7.30	108.25	111.90
85	5	679	U	C4-C5-C6	7.30	124.08	119.70
85	5	1605	A	C8-N9-C4	7.30	108.72	105.80
85	5	1902	G	C5-C6-N1	7.30	115.15	111.50
36	1	330	G	N9-C4-C5	-7.30	102.48	105.40
36	1	918	C	O5'-P-OP2	-7.30	99.13	105.70
36	1	1660	C	N3-C4-C5	-7.30	118.98	121.90
36	1	2343	C	C2-N3-C4	-7.30	116.25	119.90
38	4	45	C	N3-C2-O2	7.30	127.01	121.90
38	4	57	C	O5'-P-OP1	7.30	119.46	110.70
80	6	1119	G	C4-C5-N7	7.30	113.72	110.80
85	5	34	A	N1-C6-N6	-7.30	114.22	118.60
85	5	2506	U	N1-C2-O2	7.30	127.91	122.80
85	5	3043	C	N3-C4-N4	7.30	123.11	118.00
85	5	3129	A	C6-N1-C2	-7.30	114.22	118.60
85	5	3180	A	C6-N1-C2	-7.30	114.22	118.60
1	2	1708	U	C5-C6-N1	7.30	126.35	122.70
1	2	1732	A	C2-N3-C4	-7.30	106.95	110.60
1	2	1780	A	N1-C6-N6	7.30	122.98	118.60
36	1	434	U	C6-N1-C2	7.30	125.38	121.00
36	1	1140	G	C2-N3-C4	-7.30	108.25	111.90
36	1	1884	A	N1-C2-N3	7.30	132.95	129.30
36	1	1943	C	C6-N1-C2	-7.30	117.38	120.30
36	1	2362	C	OP1-P-OP2	7.30	130.55	119.60
36	1	2859	U	C2-N1-C1'	-7.30	108.94	117.70
38	4	102	U	N3-C4-O4	7.30	124.51	119.40
80	6	43	A	N9-C4-C5	7.30	108.72	105.80
85	5	1118	C	C5-C4-N4	-7.30	115.09	120.20
85	5	1909	A	O5'-P-OP1	7.30	119.46	110.70
85	5	2870	C	C6-N1-C1'	7.30	129.56	120.80
1	2	1257	C	C5-C4-N4	7.29	125.31	120.20
36	1	76	G	N3-C4-N9	7.29	130.38	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	423	A	C2-N3-C4	-7.29	106.95	110.60
36	1	667	C	O5'-P-OP2	-7.29	99.14	105.70
36	1	1013	G	C4-C5-N7	7.29	113.72	110.80
80	6	103	A	C6-C5-N7	-7.29	127.19	132.30
85	5	857	G	N3-C2-N2	-7.29	114.79	119.90
85	5	2095	G	C5-N7-C8	7.29	107.95	104.30
37	7	3	U	C2-N3-C4	-7.29	122.62	127.00
1	2	747	U	C6-N1-C2	-7.29	116.62	121.00
1	2	1130	A	C2-N3-C4	-7.29	106.95	110.60
36	1	93	C	N1-C2-O2	7.29	123.28	118.90
36	1	694	C	OP1-P-OP2	7.29	130.54	119.60
38	4	143	U	C5-C4-O4	-7.29	121.52	125.90
80	6	337	G	N1-C2-N3	-7.29	119.52	123.90
80	6	932	U	C4-C5-C6	7.29	124.08	119.70
85	5	3045	G	O5'-P-OP1	7.29	119.45	110.70
1	2	1073	C	C6-N1-C2	-7.29	117.38	120.30
36	1	232	G	C5-C6-O6	7.29	132.97	128.60
36	1	266	A	N1-C6-N6	-7.29	114.22	118.60
36	1	974	G	C8-N9-C4	7.29	109.32	106.40
36	1	1637	A	N1-C6-N6	-7.29	114.22	118.60
36	1	1696	A	C2-N3-C4	-7.29	106.95	110.60
36	1	2241	U	C4-C5-C6	7.29	124.08	119.70
36	1	2331	C	C2-N3-C4	-7.29	116.25	119.90
36	1	2400	G	C6-C5-N7	-7.29	126.03	130.40
80	6	265	A	C6-C5-N7	-7.29	127.20	132.30
80	6	619	A	N9-C4-C5	7.29	108.72	105.80
85	5	309	U	N3-C2-O2	7.29	127.30	122.20
85	5	360	G	N3-C4-C5	-7.29	124.95	128.60
85	5	1382	G	C5-C6-N1	7.29	115.14	111.50
85	5	1844	C	C4-C5-C6	7.29	121.05	117.40
1	2	424	C	C5-C6-N1	7.29	124.64	121.00
1	2	1124	G	C8-N9-C4	-7.29	103.48	106.40
36	1	284	A	N7-C8-N9	7.29	117.44	113.80
36	1	1334	U	N1-C2-N3	7.29	119.27	114.90
85	5	72	C	O5'-P-OP2	7.29	119.45	110.70
85	5	521	A	OP1-P-OP2	7.29	130.53	119.60
36	1	1121	U	OP2-P-O3'	7.29	121.23	105.20
36	1	1644	C	N3-C4-N4	7.29	123.10	118.00
36	1	2208	A	C2-N3-C4	7.29	114.24	110.60
36	1	2406	C	N3-C4-N4	7.29	123.10	118.00
36	1	3074	G	C2-N3-C4	-7.29	108.26	111.90
36	1	3181	C	C2-N3-C4	-7.29	116.26	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3266	G	N3-C4-C5	-7.29	124.96	128.60
38	4	18	U	OP1-P-OP2	7.29	130.53	119.60
38	4	146	U	C5-C6-N1	-7.29	119.06	122.70
80	6	379	U	N3-C4-O4	7.29	124.50	119.40
80	6	1218	G	C8-N9-C4	7.29	109.31	106.40
85	5	722	G	C8-N9-C1'	-7.29	117.53	127.00
85	5	2174	G	C5-C6-N1	-7.29	107.86	111.50
38	8	51	G	N9-C4-C5	7.29	108.31	105.40
38	8	103	G	N7-C8-N9	7.29	116.74	113.10
36	1	678	G	OP1-P-OP2	-7.29	108.67	119.60
36	1	1721	U	N3-C4-O4	-7.29	114.30	119.40
79	Q3	23	ARG	NE-CZ-NH2	7.29	123.94	120.30
80	6	1584	G	N1-C2-N3	7.29	128.27	123.90
85	5	2136	C	OP1-P-O3'	7.29	121.23	105.20
85	5	2296	A	C6-C5-N7	7.29	137.40	132.30
85	5	2811	A	N1-C2-N3	7.29	132.94	129.30
85	5	2966	G	C5-C6-N1	-7.29	107.86	111.50
1	2	1244	G	C4-C5-N7	-7.29	107.89	110.80
1	2	1629	C	O5'-P-OP1	-7.29	99.14	105.70
36	1	9	U	C5-C6-N1	-7.29	119.06	122.70
36	1	133	U	C5-C4-O4	-7.29	121.53	125.90
36	1	685	G	C6-N1-C2	-7.29	120.73	125.10
36	1	1895	A	OP1-P-OP2	-7.29	108.67	119.60
36	1	2743	A	C8-N9-C4	7.29	108.71	105.80
36	1	2791	G	C2-N3-C4	-7.29	108.26	111.90
36	1	3197	G	N1-C2-N3	7.29	128.27	123.90
85	5	1181	U	N3-C2-O2	-7.29	117.10	122.20
85	5	1487	G	C8-N9-C4	-7.29	103.49	106.40
38	8	24	G	C4-C5-N7	-7.29	107.89	110.80
36	1	351	A	C5-C6-N6	7.28	129.53	123.70
36	1	1418	A	C5-N7-C8	-7.28	100.26	103.90
36	1	1543	G	N1-C2-N2	7.28	122.75	116.20
36	1	1634	G	C6-N1-C2	-7.28	120.73	125.10
36	1	2227	C	N3-C2-O2	-7.28	116.80	121.90
36	1	2403	G	N9-C4-C5	7.28	108.31	105.40
36	1	3097	C	O5'-P-OP2	-7.28	99.14	105.70
36	1	3108	G	C6-C5-N7	7.28	134.77	130.40
80	6	440	U	N1-C2-N3	7.28	119.27	114.90
85	5	690	A	N1-C2-N3	7.28	132.94	129.30
85	5	1338	C	N1-C2-O2	-7.28	114.53	118.90
85	5	1441	G	C4-N9-C1'	-7.28	117.03	126.50
85	5	1526	U	C6-N1-C2	-7.28	116.63	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1737	U	C5-C6-N1	-7.28	119.06	122.70
85	5	1867	A	OP1-P-OP2	-7.28	108.67	119.60
85	5	1869	C	N1-C2-O2	-7.28	114.53	118.90
85	5	2288	G	C4-N9-C1'	7.28	135.97	126.50
85	5	2954	U	C4-C5-C6	7.28	124.07	119.70
85	5	3011	A	C8-N9-C4	7.28	108.71	105.80
85	5	3103	A	C5-C6-N6	-7.28	117.87	123.70
37	7	72	A	C5-N7-C8	7.28	107.54	103.90
36	1	564	G	C6-N1-C2	-7.28	120.73	125.10
36	1	1288	U	C2-N3-C4	-7.28	122.63	127.00
36	1	2635	A	C4-C5-N7	-7.28	107.06	110.70
36	1	3323	A	N1-C2-N3	7.28	132.94	129.30
80	6	1401	A	N1-C6-N6	-7.28	114.23	118.60
85	5	803	C	OP2-P-O3'	7.28	121.22	105.20
85	5	1834	U	C2-N3-C4	7.28	131.37	127.00
85	5	2665	U	N3-C4-O4	7.28	124.50	119.40
1	2	994	G	N1-C2-N3	-7.28	119.53	123.90
1	2	1558	G	C5-C6-N1	7.28	115.14	111.50
36	1	48	A	N1-C2-N3	7.28	132.94	129.30
36	1	393	U	N1-C2-N3	7.28	119.27	114.90
36	1	2288	G	C6-N1-C2	-7.28	120.73	125.10
38	4	3	A	C8-N9-C4	7.28	108.71	105.80
70	O4	10	ARG	NE-CZ-NH1	-7.28	116.66	120.30
85	5	67	A	N7-C8-N9	-7.28	110.16	113.80
85	5	76	G	C5-C6-N1	-7.28	107.86	111.50
85	5	1303	A	C5-N7-C8	-7.28	100.26	103.90
85	5	2169	G	N3-C4-N9	7.28	130.37	126.00
85	5	2313	A	C2-N3-C4	-7.28	106.96	110.60
85	5	2638	C	N3-C4-C5	-7.28	118.99	121.90
1	2	1343	A	C2-N3-C4	-7.28	106.96	110.60
36	1	924	G	C2-N3-C4	-7.28	108.26	111.90
37	3	114	U	N3-C4-O4	-7.28	114.31	119.40
37	3	121	U	N1-C2-O2	-7.28	117.70	122.80
80	6	1423	U	C2-N3-C4	-7.28	122.63	127.00
85	5	153	U	N1-C2-N3	7.28	119.27	114.90
85	5	2271	A	C5-N7-C8	7.28	107.54	103.90
36	1	16	A	C5-C6-N1	-7.28	114.06	117.70
36	1	374	A	O5'-P-OP1	7.28	119.43	110.70
36	1	788	C	OP1-P-OP2	-7.28	108.69	119.60
36	1	879	U	N1-C2-N3	-7.28	110.53	114.90
36	1	2372	A	N3-C4-C5	-7.28	121.71	126.80
36	1	2919	A	C8-N9-C4	-7.28	102.89	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3016	A	OP2-P-O3'	7.28	121.21	105.20
80	6	1656	U	C4-C5-C6	-7.28	115.33	119.70
85	5	1753	G	N3-C4-N9	7.28	130.37	126.00
85	5	2643	A	C2-N3-C4	-7.28	106.96	110.60
85	5	2800	G	C6-C5-N7	7.28	134.77	130.40
85	5	3364	C	O5'-P-OP1	7.28	119.43	110.70
47	m0	24	ARG	NE-CZ-NH1	7.28	123.94	120.30
1	2	309	C	C6-N1-C2	-7.28	117.39	120.30
1	2	361	C	N3-C4-N4	7.28	123.09	118.00
1	2	572	C	C6-N1-C2	-7.28	117.39	120.30
1	2	1162	G	C2-N3-C4	-7.28	108.26	111.90
36	1	1002	A	C4-C5-C6	-7.28	113.36	117.00
36	1	1226	G	N3-C2-N2	-7.28	114.81	119.90
36	1	1354	G	C5-C6-O6	-7.28	124.23	128.60
36	1	1927	G	O5'-P-OP2	-7.28	99.15	105.70
36	1	2784	G	N7-C8-N9	-7.28	109.46	113.10
36	1	3287	U	C5-C4-O4	-7.28	121.53	125.90
38	4	89	A	N3-C4-C5	7.28	131.89	126.80
68	O2	125	ARG	NE-CZ-NH2	7.28	123.94	120.30
80	6	595	G	C5-C6-O6	7.28	132.97	128.60
80	6	1060	U	N3-C2-O2	-7.28	117.11	122.20
80	6	1145	U	C5-C6-N1	7.28	126.34	122.70
80	6	1635	A	N1-C6-N6	7.28	122.97	118.60
85	5	95	A	C4-C5-C6	-7.28	113.36	117.00
85	5	755	A	C6-C5-N7	-7.28	127.21	132.30
85	5	1449	A	C4-C5-N7	-7.28	107.06	110.70
85	5	2388	U	C4-C5-C6	7.28	124.06	119.70
36	1	810	A	C5-C6-N1	7.27	121.34	117.70
36	1	1621	A	N7-C8-N9	-7.27	110.16	113.80
85	5	3249	C	N3-C2-O2	7.27	126.99	121.90
1	2	411	C	N1-C2-N3	7.27	124.29	119.20
1	2	527	A	N7-C8-N9	7.27	117.44	113.80
36	1	211	A	N7-C8-N9	7.27	117.44	113.80
36	1	300	G	N1-C2-N3	7.27	128.26	123.90
36	1	559	A	N1-C2-N3	7.27	132.94	129.30
36	1	716	A	N1-C2-N3	-7.27	125.66	129.30
36	1	829	U	N1-C2-O2	-7.27	117.71	122.80
36	1	1154	A	C4-C5-N7	-7.27	107.06	110.70
36	1	1357	G	N1-C6-O6	7.27	124.26	119.90
36	1	1813	A	N9-C4-C5	7.27	108.71	105.80
36	1	2280	A	N9-C4-C5	7.27	108.71	105.80
36	1	2419	A	N1-C6-N6	-7.27	114.24	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	3	27	A	C4-C5-N7	7.27	114.34	110.70
80	6	677	G	C6-N1-C2	7.27	129.46	125.10
80	6	905	A	N1-C6-N6	-7.27	114.24	118.60
80	6	1029	U	N1-C2-N3	7.27	119.26	114.90
85	5	1076	C	N1-C2-O2	-7.27	114.54	118.90
85	5	1405	U	N1-C2-O2	-7.27	117.71	122.80
85	5	1749	A	O5'-P-OP1	-7.27	99.15	105.70
85	5	2422	C	O5'-P-OP2	-7.27	99.16	105.70
85	5	2632	G	OP1-P-O3'	7.27	121.20	105.20
55	m9	9	ARG	NE-CZ-NH1	7.27	123.94	120.30
36	1	685	G	C4-C5-N7	-7.27	107.89	110.80
36	1	2958	A	N1-C2-N3	7.27	132.94	129.30
38	4	56	G	O5'-P-OP2	-7.27	99.16	105.70
80	6	526	A	C4-C5-C6	7.27	120.64	117.00
80	6	563	U	O5'-P-OP1	7.27	119.42	110.70
85	5	910	G	N7-C8-N9	7.27	116.74	113.10
85	5	1695	U	N1-C2-N3	7.27	119.26	114.90
85	5	3311	C	O4'-C1'-N1	-7.27	102.38	108.20
1	2	391	A	N9-C4-C5	-7.27	102.89	105.80
36	1	203	G	N1-C2-N3	7.27	128.26	123.90
36	1	1384	U	C4-C5-C6	7.27	124.06	119.70
28	d6	5	ARG	NE-CZ-NH1	-7.27	116.67	120.30
85	5	686	G	N3-C2-N2	-7.27	114.81	119.90
85	5	3084	C	C6-N1-C2	7.27	123.21	120.30
38	8	72	A	OP1-P-OP2	7.27	130.50	119.60
1	2	1126	A	N1-C6-N6	7.27	122.96	118.60
1	2	1224	G	C5-N7-C8	-7.27	100.67	104.30
1	2	1637	G	O5'-P-OP2	-7.27	99.16	105.70
1	2	1713	A	OP1-P-OP2	-7.27	108.70	119.60
36	1	376	G	C5-C6-N1	-7.27	107.87	111.50
36	1	392	G	N3-C4-C5	7.27	132.23	128.60
36	1	602	A	C5-N7-C8	7.27	107.53	103.90
80	6	96	G	N3-C2-N2	-7.27	114.81	119.90
80	6	128	U	C4-C5-C6	7.27	124.06	119.70
80	6	333	A	N1-C2-N3	7.27	132.93	129.30
80	6	536	C	C6-N1-C2	-7.27	117.39	120.30
80	6	584	C	N1-C2-O2	7.27	123.26	118.90
80	6	757	A	N3-C4-N9	-7.27	121.59	127.40
80	6	1316	G	O5'-P-OP1	-7.27	99.16	105.70
85	5	351	A	C6-N1-C2	-7.27	114.24	118.60
85	5	562	C	N1-C2-O2	-7.27	114.54	118.90
85	5	710	A	C4-C5-N7	7.27	114.33	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	849	C	O5'-P-OP1	7.27	119.42	110.70
85	5	1153	A	N3-C4-C5	-7.27	121.71	126.80
85	5	1306	G	C5-C6-O6	-7.27	124.24	128.60
85	5	2336	U	C4-C5-C6	-7.27	115.34	119.70
36	1	952	A	N7-C8-N9	7.27	117.43	113.80
36	1	1151	U	O5'-P-OP2	7.27	119.42	110.70
80	6	638	U	N3-C2-O2	-7.27	117.11	122.20
85	5	3263	G	N7-C8-N9	7.27	116.73	113.10
62	n6	39	LEU	CA-CB-CG	7.27	132.01	115.30
36	1	440	A	N9-C4-C5	-7.26	102.89	105.80
36	1	2131	A	C5-C6-N1	-7.26	114.07	117.70
36	1	2187	G	N1-C2-N3	7.26	128.26	123.90
36	1	2961	G	C5-C6-O6	7.26	132.96	128.60
80	6	1097	U	N3-C4-O4	-7.26	114.31	119.40
85	5	2613	U	C6-N1-C1'	7.26	131.37	121.20
85	5	2912	G	O5'-P-OP1	-7.26	99.16	105.70
38	8	98	U	N3-C4-C5	-7.26	110.24	114.60
36	1	387	A	N7-C8-N9	7.26	117.43	113.80
36	1	896	A	OP1-P-OP2	-7.26	108.71	119.60
36	1	2690	G	C4-C5-N7	7.26	113.70	110.80
36	1	3200	G	OP1-P-O3'	7.26	121.18	105.20
37	3	113	C	O5'-P-OP1	-7.26	99.16	105.70
38	4	76	C	N3-C4-C5	7.26	124.81	121.90
80	6	709	C	C2-N3-C4	7.26	123.53	119.90
85	5	964	G	N1-C2-N3	7.26	128.26	123.90
85	5	1887	A	C6-C5-N7	-7.26	127.22	132.30
85	5	3036	G	N1-C2-N2	-7.26	109.66	116.20
38	8	11	C	C5-C4-N4	7.26	125.28	120.20
1	2	63	G	C5-C6-N1	-7.26	107.87	111.50
1	2	1563	C	N3-C4-C5	7.26	124.80	121.90
36	1	79	U	C6-N1-C2	-7.26	116.64	121.00
36	1	345	G	C8-N9-C1'	-7.26	117.56	127.00
36	1	2783	U	O5'-P-OP2	-7.26	99.17	105.70
36	1	2836	C	OP2-P-O3'	7.26	121.18	105.20
46	L9	173	ARG	NE-CZ-NH1	-7.26	116.67	120.30
80	6	741	C	C6-N1-C2	7.26	123.20	120.30
85	5	512	U	N1-C2-N3	7.26	119.26	114.90
85	5	1132	C	C4-C5-C6	-7.26	113.77	117.40
85	5	3114	A	C8-N9-C4	7.26	108.70	105.80
37	7	44	C	O5'-P-OP2	-7.26	99.16	105.70
36	1	139	G	C8-N9-C4	7.26	109.30	106.40
36	1	1661	G	N1-C2-N3	7.26	128.25	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2863	G	C4-C5-C6	7.26	123.16	118.80
36	1	3391	A	C6-N1-C2	-7.26	114.25	118.60
85	5	197	G	C4-C5-C6	7.26	123.16	118.80
85	5	222	A	N1-C2-N3	7.26	132.93	129.30
85	5	1167	U	OP2-P-O3'	7.26	121.17	105.20
85	5	1389	G	O5'-P-OP2	-7.26	99.17	105.70
85	5	2161	G	N3-C4-N9	7.26	130.36	126.00
37	7	73	C	C5-C6-N1	7.26	124.63	121.00
36	1	520	U	N3-C4-C5	-7.26	110.25	114.60
36	1	1501	U	O5'-P-OP2	-7.26	99.17	105.70
36	1	2163	C	O5'-P-OP1	-7.26	99.17	105.70
85	5	849	C	N1-C2-O2	-7.26	114.55	118.90
85	5	2629	U	N3-C4-O4	7.26	124.48	119.40
85	5	2732	G	N3-C4-C5	7.26	132.23	128.60
1	2	196	G	C5-C6-O6	-7.26	124.25	128.60
36	1	222	A	C4-C5-N7	7.26	114.33	110.70
36	1	696	C	N3-C4-C5	7.26	124.80	121.90
36	1	821	U	OP1-P-OP2	-7.26	108.71	119.60
36	1	877	C	C6-N1-C2	-7.26	117.40	120.30
36	1	971	G	C5-C6-O6	-7.26	124.25	128.60
36	1	1414	G	N7-C8-N9	7.26	116.73	113.10
36	1	1641	U	N1-C2-O2	-7.26	117.72	122.80
36	1	2428	U	C5-C6-N1	-7.26	119.07	122.70
36	1	2661	G	C2-N3-C4	-7.26	108.27	111.90
80	6	359	A	C2-N3-C4	-7.26	106.97	110.60
80	6	605	A	C5-C6-N1	7.26	121.33	117.70
80	6	1590	G	C4-C5-C6	-7.26	114.45	118.80
80	6	1719	A	C6-N1-C2	-7.26	114.25	118.60
80	6	1739	C	N1-C2-N3	7.26	124.28	119.20
85	5	561	C	C2-N3-C4	-7.26	116.27	119.90
85	5	918	C	OP1-P-OP2	-7.26	108.72	119.60
85	5	1190	A	C6-N1-C2	-7.26	114.25	118.60
85	5	1547	G	N1-C6-O6	-7.26	115.55	119.90
85	5	1771	C	OP1-P-OP2	-7.26	108.72	119.60
85	5	1910	A	C5-C6-N6	7.26	129.50	123.70
85	5	2745	G	C6-N1-C2	7.26	129.45	125.10
1	2	594	A	N3-C4-C5	-7.25	121.72	126.80
1	2	1703	G	C5-C6-N1	7.25	115.13	111.50
36	1	128	G	O5'-P-OP2	7.25	119.41	110.70
36	1	317	A	N7-C8-N9	7.25	117.43	113.80
36	1	634	C	OP2-P-O3'	7.25	121.16	105.20
36	1	764	U	N3-C4-C5	-7.25	110.25	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1326	A	N1-C2-N3	7.25	132.93	129.30
36	1	3185	U	O5'-P-OP1	-7.25	99.17	105.70
80	6	305	C	N3-C4-C5	-7.25	119.00	121.90
80	6	384	G	C4-C5-N7	7.25	113.70	110.80
85	5	210	U	C5-C4-O4	7.25	130.25	125.90
85	5	819	U	C5-C6-N1	-7.25	119.07	122.70
85	5	1499	C	O5'-P-OP1	7.25	119.41	110.70
1	2	380	U	O5'-P-OP1	-7.25	99.17	105.70
36	1	23	A	C8-N9-C4	7.25	108.70	105.80
36	1	2243	A	OP1-P-OP2	7.25	130.48	119.60
36	1	2565	U	N3-C2-O2	-7.25	117.12	122.20
36	1	3005	A	C4-C5-N7	7.25	114.33	110.70
37	3	79	A	C5-C6-N1	-7.25	114.07	117.70
80	6	353	A	O5'-P-OP1	-7.25	99.17	105.70
80	6	1021	C	C4-C5-C6	7.25	121.03	117.40
85	5	1409	G	N1-C2-N3	7.25	128.25	123.90
85	5	1938	U	O5'-P-OP1	7.25	119.40	110.70
85	5	2645	G	C5-C6-N1	7.25	115.13	111.50
85	5	3015	G	C5-C6-N1	7.25	115.13	111.50
85	5	3024	A	C5-C6-N1	-7.25	114.07	117.70
85	5	3141	A	N9-C4-C5	7.25	108.70	105.80
36	1	173	G	N3-C4-C5	-7.25	124.97	128.60
36	1	716	A	N7-C8-N9	-7.25	110.17	113.80
36	1	2871	G	OP1-P-OP2	-7.25	108.72	119.60
80	6	1629	G	N1-C2-N3	7.25	128.25	123.90
80	6	1741	U	C6-N1-C2	-7.25	116.65	121.00
85	5	556	U	C6-N1-C2	-7.25	116.65	121.00
85	5	988	U	N1-C2-O2	-7.25	117.72	122.80
85	5	1194	G	C5-C6-N1	7.25	115.12	111.50
85	5	1251	A	N9-C4-C5	7.25	108.70	105.80
85	5	1435	A	P-O3'-C3'	7.25	128.40	119.70
85	5	1489	A	C5-C6-N6	-7.25	117.90	123.70
85	5	2193	U	N3-C4-O4	-7.25	114.32	119.40
85	5	3105	U	C4-C5-C6	7.25	124.05	119.70
36	1	164	A	C5-C6-N6	-7.25	117.90	123.70
36	1	187	A	C6-C5-N7	-7.25	127.22	132.30
36	1	728	G	C5-C6-N1	7.25	115.12	111.50
36	1	2372	A	C6-N1-C2	-7.25	114.25	118.60
36	1	2799	A	N1-C6-N6	-7.25	114.25	118.60
40	L3	275	ARG	NE-CZ-NH1	-7.25	116.67	120.30
80	6	1486	G	N1-C6-O6	7.25	124.25	119.90
85	5	293	C	C6-N1-C2	7.25	123.20	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	718	G	N1-C2-N3	7.25	128.25	123.90
85	5	841	A	C8-N9-C4	7.25	108.70	105.80
85	5	3196	U	N3-C4-O4	-7.25	114.33	119.40
1	2	737	A	C5-N7-C8	7.25	107.53	103.90
36	1	435	C	C5-C6-N1	-7.25	117.38	121.00
36	1	625	G	C4-C5-N7	-7.25	107.90	110.80
36	1	1371	G	N3-C4-N9	-7.25	121.65	126.00
36	1	1375	G	N7-C8-N9	7.25	116.72	113.10
36	1	1576	G	C5-C6-O6	-7.25	124.25	128.60
36	1	2445	A	C5-C6-N1	7.25	121.32	117.70
36	1	2628	A	C6-N1-C2	-7.25	114.25	118.60
36	1	3248	C	O5'-P-OP2	7.25	119.40	110.70
80	6	1196	A	N1-C6-N6	-7.25	114.25	118.60
85	5	342	A	N9-C4-C5	7.25	108.70	105.80
85	5	745	C	N1-C2-N3	7.25	124.27	119.20
85	5	922	U	C5-C4-O4	7.25	130.25	125.90
85	5	1053	A	C4-C5-N7	7.25	114.32	110.70
85	5	1881	A	N9-C4-C5	7.25	108.70	105.80
85	5	2126	A	N1-C6-N6	7.25	122.95	118.60
85	5	2162	U	N1-C2-O2	-7.25	117.72	122.80
85	5	2640	A	C6-C5-N7	-7.25	127.23	132.30
85	5	3054	U	C5-C6-N1	7.25	126.33	122.70
85	5	3211	C	OP2-P-O3'	7.25	121.14	105.20
85	5	3238	G	N1-C2-N3	-7.25	119.55	123.90
67	o1	84	ASP	CB-CG-OD2	-7.25	111.78	118.30
1	2	299	A	C4-C5-C6	-7.25	113.38	117.00
1	2	459	G	N7-C8-N9	7.25	116.72	113.10
1	2	1064	A	C2-N3-C4	7.25	114.22	110.60
1	2	1588	G	C4-C5-N7	7.25	113.70	110.80
36	1	918	C	C2-N1-C1'	-7.25	110.83	118.80
36	1	1305	U	N1-C2-N3	7.25	119.25	114.90
36	1	1879	A	C6-N1-C2	-7.25	114.25	118.60
36	1	1893	A	C6-C5-N7	-7.25	127.23	132.30
36	1	2644	C	C5-C4-N4	7.25	125.27	120.20
36	1	2689	A	C4-C5-C6	7.25	120.62	117.00
41	L4	182	LEU	CA-CB-CG	7.25	131.97	115.30
80	6	1285	U	C5-C4-O4	7.25	130.25	125.90
85	5	1919	G	N9-C4-C5	7.25	108.30	105.40
85	5	2343	C	N1-C2-O2	-7.25	114.55	118.90
85	5	3048	A	C4-C5-C6	7.25	120.62	117.00
37	7	117	A	C5-C6-N1	-7.25	114.08	117.70
1	2	341	A	C8-N9-C4	-7.25	102.90	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	C6	40	GLU	C-N-CD	-7.25	104.66	120.60
36	1	903	U	N3-C4-O4	7.25	124.47	119.40
1	2	837	U	C5-C6-N1	7.24	126.32	122.70
36	1	508	U	N1-C2-N3	7.24	119.25	114.90
36	1	2405	C	C2-N1-C1'	7.24	126.77	118.80
36	1	3366	G	C2-N3-C4	-7.24	108.28	111.90
80	6	141	U	N1-C2-O2	-7.24	117.73	122.80
80	6	1148	C	C4-C5-C6	7.24	121.02	117.40
80	6	1601	G	C2-N3-C4	7.24	115.52	111.90
85	5	1176	C	N1-C2-N3	-7.24	114.13	119.20
85	5	2206	G	C4-C5-N7	7.24	113.70	110.80
85	5	2895	G	C2-N3-C4	-7.24	108.28	111.90
41	14	195	ARG	NE-CZ-NH1	-7.24	116.68	120.30
36	1	1197	A	C5-C6-N1	7.24	121.32	117.70
36	1	1653	G	C2-N3-C4	-7.24	108.28	111.90
36	1	2908	G	C4-C5-N7	7.24	113.70	110.80
36	1	2956	A	C6-C5-N7	-7.24	127.23	132.30
80	6	534	A	OP1-P-OP2	-7.24	108.74	119.60
80	6	1607	G	N1-C2-N3	7.24	128.25	123.90
85	5	330	G	C4-C5-C6	-7.24	114.45	118.80
85	5	880	G	N3-C4-C5	-7.24	124.98	128.60
85	5	3000	A	N9-C4-C5	-7.24	102.90	105.80
1	2	1081	U	OP1-P-OP2	7.24	130.46	119.60
1	2	1542	A	C4-C5-N7	7.24	114.32	110.70
36	1	199	A	N9-C4-C5	7.24	108.70	105.80
36	1	921	A	N1-C2-N3	7.24	132.92	129.30
36	1	1222	G	C5-C6-O6	7.24	132.94	128.60
36	1	1356	U	N3-C4-C5	7.24	118.94	114.60
36	1	1602	A	C8-N9-C4	7.24	108.70	105.80
36	1	2375	G	N7-C8-N9	-7.24	109.48	113.10
36	1	2657	A	N1-C2-N3	7.24	132.92	129.30
80	6	60	U	N1-C2-N3	-7.24	110.56	114.90
85	5	655	C	O5'-P-OP2	-7.24	99.18	105.70
85	5	1838	G	N1-C6-O6	7.24	124.25	119.90
85	5	1887	A	C4-C5-N7	7.24	114.32	110.70
1	2	1019	A	N1-C2-N3	7.24	132.92	129.30
1	2	1168	U	N3-C2-O2	-7.24	117.13	122.20
1	2	1403	C	OP1-P-OP2	7.24	130.46	119.60
36	1	287	G	C6-C5-N7	-7.24	126.06	130.40
36	1	686	G	C2-N3-C4	-7.24	108.28	111.90
36	1	2396	G	N9-C4-C5	7.24	108.30	105.40
36	1	2607	G	C5-C6-O6	-7.24	124.26	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2794	G	C2-N3-C4	-7.24	108.28	111.90
80	6	1727	G	N9-C4-C5	7.24	108.30	105.40
85	5	102	C	N1-C2-O2	7.24	123.24	118.90
85	5	343	U	O5'-P-OP1	-7.24	99.19	105.70
85	5	648	C	OP1-P-O3'	7.24	121.12	105.20
85	5	1329	U	C2-N3-C4	-7.24	122.66	127.00
85	5	2295	A	C2-N3-C4	-7.24	106.98	110.60
85	5	2404	A	C5-C6-N6	-7.24	117.91	123.70
85	5	3073	A	C2-N3-C4	7.24	114.22	110.60
37	7	108	A	C5-C6-N1	-7.24	114.08	117.70
1	2	741	U	C6-N1-C2	-7.24	116.66	121.00
1	2	917	C	C6-N1-C2	-7.24	117.41	120.30
36	1	202	G	O4'-C1'-N9	-7.24	102.41	108.20
36	1	439	C	C6-N1-C2	-7.24	117.41	120.30
36	1	757	C	C2-N3-C4	-7.24	116.28	119.90
80	6	61	A	C8-N9-C4	7.24	108.69	105.80
85	5	674	G	N9-C4-C5	7.24	108.30	105.40
85	5	2159	U	C5-C6-N1	-7.24	119.08	122.70
85	5	2717	U	C5-C6-N1	-7.24	119.08	122.70
38	8	108	C	N1-C2-O2	7.24	123.24	118.90
36	1	393	U	N3-C4-O4	7.24	124.47	119.40
36	1	2362	C	N1-C2-N3	-7.24	114.13	119.20
36	1	3177	G	C2-N3-C4	7.24	115.52	111.90
36	1	3260	G	N1-C2-N3	7.24	128.24	123.90
38	4	72	A	N1-C2-N3	7.24	132.92	129.30
38	4	118	C	C2-N3-C4	-7.24	116.28	119.90
80	6	50	C	N3-C4-C5	-7.24	119.01	121.90
80	6	694	U	N1-C2-N3	-7.24	110.56	114.90
85	5	375	A	C2-N3-C4	-7.24	106.98	110.60
85	5	726	G	C4-C5-N7	7.24	113.69	110.80
85	5	764	U	C5-C4-O4	-7.24	121.56	125.90
85	5	1154	A	N1-C2-N3	-7.24	125.68	129.30
85	5	1357	G	C2-N3-C4	-7.24	108.28	111.90
85	5	2335	G	N3-C4-N9	7.24	130.34	126.00
85	5	2754	G	N3-C4-C5	-7.24	124.98	128.60
85	5	2975	U	C4-C5-C6	-7.24	115.36	119.70
85	5	3229	G	C8-N9-C4	7.24	109.30	106.40
85	5	3386	G	OP1-P-OP2	7.24	130.45	119.60
38	8	105	A	OP1-P-OP2	-7.24	108.75	119.60
36	1	535	G	C4-C5-C6	7.23	123.14	118.80
36	1	828	A	C5-C6-N1	-7.23	114.08	117.70
36	1	2299	A	O5'-P-OP1	7.23	119.38	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2633	U	C4-C5-C6	7.23	124.04	119.70
80	6	253	A	N9-C4-C5	-7.23	102.91	105.80
85	5	246	U	N1-C2-O2	7.23	127.86	122.80
85	5	1161	G	C6-C5-N7	7.23	134.74	130.40
85	5	2839	G	C4-C5-N7	7.23	113.69	110.80
1	2	421	A	N9-C4-C5	-7.23	102.91	105.80
1	2	1090	G	C8-N9-C4	-7.23	103.51	106.40
1	2	1098	U	C6-N1-C2	7.23	125.34	121.00
36	1	349	A	OP2-P-O3'	7.23	121.11	105.20
36	1	1205	A	N3-C4-C5	7.23	131.86	126.80
36	1	1476	G	C5-C6-N1	7.23	115.12	111.50
85	5	573	C	N3-C4-C5	7.23	124.79	121.90
85	5	660	A	N3-C4-C5	-7.23	121.74	126.80
85	5	2711	C	OP1-P-OP2	-7.23	108.75	119.60
85	5	3274	A	N1-C6-N6	-7.23	114.26	118.60
36	1	304	G	C4-C5-N7	-7.23	107.91	110.80
36	1	327	A	N1-C6-N6	-7.23	114.26	118.60
36	1	1039	U	N3-C2-O2	7.23	127.26	122.20
36	1	1169	A	N7-C8-N9	-7.23	110.18	113.80
36	1	1449	A	C2-N3-C4	7.23	114.22	110.60
36	1	1591	G	C8-N9-C4	-7.23	103.51	106.40
36	1	2669	G	C5-C6-N1	-7.23	107.89	111.50
85	5	1887	A	C5-C6-N6	-7.23	117.92	123.70
85	5	2133	U	N1-C2-O2	-7.23	117.74	122.80
85	5	2892	A	C6-C5-N7	-7.23	127.24	132.30
85	5	3181	C	OP1-P-OP2	-7.23	108.75	119.60
36	1	1196	C	C4-C5-C6	-7.23	113.79	117.40
36	1	1420	C	C5-C6-N1	-7.23	117.39	121.00
36	1	1505	C	C4-C5-C6	-7.23	113.78	117.40
37	3	95	A	C2-N3-C4	-7.23	106.99	110.60
80	6	1641	C	N3-C4-N4	7.23	123.06	118.00
85	5	197	G	N3-C2-N2	7.23	124.96	119.90
85	5	2409	G	N7-C8-N9	7.23	116.71	113.10
85	5	2548	C	C6-N1-C2	-7.23	117.41	120.30
85	5	2613	U	N3-C4-C5	-7.23	110.26	114.60
1	2	81	G	C4-C5-N7	7.23	113.69	110.80
1	2	884	G	C4-C5-N7	7.23	113.69	110.80
36	1	196	G	O5'-P-OP2	-7.23	99.19	105.70
36	1	1476	G	C5-N7-C8	7.23	107.91	104.30
36	1	1895	A	O5'-P-OP2	7.23	119.37	110.70
36	1	2291	A	N1-C6-N6	-7.23	114.26	118.60
80	6	139	C	N3-C4-C5	7.23	124.79	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1420	C	C5-C6-N1	-7.23	117.39	121.00
85	5	1458	U	O5'-P-OP1	-7.23	99.19	105.70
85	5	2325	G	C4-C5-N7	7.23	113.69	110.80
85	5	2726	C	O4'-C1'-N1	7.23	113.98	108.20
85	5	3044	G	N7-C8-N9	7.23	116.71	113.10
38	8	66	A	N1-C2-N3	7.23	132.91	129.30
1	2	608	U	N1-C2-N3	7.23	119.24	114.90
1	2	1042	U	N3-C2-O2	-7.23	117.14	122.20
36	1	197	G	OP1-P-OP2	-7.23	108.76	119.60
36	1	1313	G	N7-C8-N9	7.23	116.71	113.10
36	1	2423	U	C4-C5-C6	7.23	124.03	119.70
36	1	2968	G	N3-C4-N9	-7.23	121.66	126.00
36	1	3077	A	C5-C6-N1	7.23	121.31	117.70
80	6	306	U	C2-N3-C4	-7.23	122.66	127.00
80	6	1401	A	C5-C6-N1	7.23	121.31	117.70
80	6	1777	G	N3-C4-C5	7.23	132.21	128.60
85	5	835	G	C5-C6-N1	7.23	115.11	111.50
85	5	1217	A	C8-N9-C4	-7.23	102.91	105.80
85	5	1221	A	C8-N9-C4	7.23	108.69	105.80
85	5	1271	A	N1-C6-N6	7.23	122.94	118.60
85	5	3336	A	C2-N3-C4	-7.23	106.99	110.60
1	2	67	A	C5-N7-C8	7.22	107.51	103.90
1	2	1731	G	N1-C2-N3	7.22	128.24	123.90
36	1	1468	A	C6-C5-N7	-7.22	127.24	132.30
36	1	2523	A	C4-C5-C6	7.22	120.61	117.00
36	1	2741	C	C2-N3-C4	-7.22	116.29	119.90
80	6	1082	C	C6-N1-C2	-7.22	117.41	120.30
80	6	1095	U	N1-C2-O2	-7.22	117.74	122.80
80	6	1111	G	C5-C6-O6	7.22	132.94	128.60
85	5	2330	C	C6-N1-C2	7.22	123.19	120.30
85	5	2977	G	C8-N9-C4	-7.22	103.51	106.40
37	7	4	U	C2-N3-C4	-7.22	122.67	127.00
1	2	977	G	N1-C2-N3	7.22	128.23	123.90
1	2	1315	C	N3-C4-C5	-7.22	119.01	121.90
1	2	1502	U	N1-C2-O2	-7.22	117.74	122.80
36	1	300	G	N1-C2-N2	-7.22	109.70	116.20
36	1	324	A	OP2-P-O3'	7.22	121.09	105.20
36	1	3345	G	N7-C8-N9	-7.22	109.49	113.10
39	L2	42	ARG	NE-CZ-NH1	-7.22	116.69	120.30
80	6	66	U	C6-N1-C2	7.22	125.33	121.00
85	5	299	G	OP1-P-OP2	7.22	130.44	119.60
85	5	418	A	O5'-P-OP2	-7.22	99.20	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1391	C	C6-N1-C2	7.22	123.19	120.30
85	5	1802	C	C6-N1-C2	7.22	123.19	120.30
85	5	2347	U	N1-C2-O2	-7.22	117.74	122.80
85	5	2753	G	C4-C5-N7	7.22	113.69	110.80
37	7	115	G	N1-C6-O6	7.22	124.23	119.90
1	2	102	U	N1-C2-N3	7.22	119.23	114.90
36	1	3009	G	OP1-P-OP2	-7.22	108.77	119.60
38	4	2	A	C8-N9-C4	-7.22	102.91	105.80
1	2	551	G	C5-N7-C8	-7.22	100.69	104.30
1	2	1274	G	C5-N7-C8	-7.22	100.69	104.30
36	1	417	A	C5-N7-C8	-7.22	100.29	103.90
36	1	2437	G	N3-C4-C5	-7.22	124.99	128.60
36	1	2513	U	N3-C4-O4	-7.22	114.35	119.40
36	1	3378	C	OP1-P-OP2	-7.22	108.77	119.60
38	4	29	U	N3-C2-O2	-7.22	117.15	122.20
38	4	61	A	C6-N1-C2	-7.22	114.27	118.60
80	6	291	G	C8-N9-C4	-7.22	103.51	106.40
80	6	293	U	C5-C6-N1	-7.22	119.09	122.70
80	6	768	C	C6-N1-C1'	-7.22	112.14	120.80
85	5	1179	A	C6-N1-C2	-7.22	114.27	118.60
85	5	1585	C	C6-N1-C2	7.22	123.19	120.30
85	5	1848	G	O5'-P-OP2	-7.22	99.20	105.70
85	5	2280	A	N7-C8-N9	7.22	117.41	113.80
85	5	2950	G	C4-C5-N7	7.22	113.69	110.80
38	8	116	G	N9-C4-C5	-7.22	102.51	105.40
1	2	1427	A	C2-N3-C4	-7.22	106.99	110.60
36	1	3076	C	N1-C2-O2	-7.22	114.57	118.90
80	6	55	A	C8-N9-C4	-7.22	102.91	105.80
80	6	512	A	C8-N9-C4	-7.22	102.91	105.80
80	6	1658	G	C8-N9-C4	7.22	109.29	106.40
80	6	1732	A	N1-C2-N3	7.22	132.91	129.30
85	5	189	G	C8-N9-C4	-7.22	103.51	106.40
85	5	1350	A	C5-C6-N6	7.22	129.47	123.70
85	5	1515	A	N7-C8-N9	7.22	117.41	113.80
85	5	2238	G	OP2-P-O3'	7.22	121.08	105.20
85	5	2547	A	C2-N3-C4	7.22	114.21	110.60
1	2	50	C	N3-C4-C5	-7.22	119.01	121.90
1	2	878	G	C8-N9-C4	-7.22	103.51	106.40
1	2	1184	G	N3-C4-C5	7.22	132.21	128.60
36	1	81	C	O5'-P-OP2	-7.22	99.20	105.70
36	1	388	G	C4-C5-N7	7.22	113.69	110.80
36	1	1406	A	C5-N7-C8	-7.22	100.29	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1429	G	N3-C4-N9	7.22	130.33	126.00
36	1	1724	U	C5-C6-N1	7.22	126.31	122.70
36	1	1871	U	C4-C5-C6	7.22	124.03	119.70
36	1	1887	A	C4-C5-C6	7.22	120.61	117.00
36	1	2835	U	C2-N3-C4	-7.22	122.67	127.00
36	1	2896	A	C4-C5-C6	7.22	120.61	117.00
38	4	134	G	C5-C6-O6	-7.22	124.27	128.60
80	6	1016	C	C5-C6-N1	7.22	124.61	121.00
80	6	1032	G	C5-C6-O6	-7.22	124.27	128.60
85	5	83	U	OP1-P-OP2	7.22	130.42	119.60
85	5	894	G	C5-C6-N1	-7.22	107.89	111.50
85	5	1311	G	O5'-P-OP1	-7.22	99.21	105.70
85	5	1745	C	O5'-P-OP2	-7.22	99.20	105.70
36	1	612	U	C5-C6-N1	-7.21	119.09	122.70
36	1	1409	G	N1-C6-O6	-7.21	115.57	119.90
36	1	1578	C	N3-C2-O2	7.21	126.95	121.90
36	1	1888	U	N3-C4-O4	-7.21	114.35	119.40
36	1	2691	A	C6-N1-C2	-7.21	114.27	118.60
37	3	24	A	O5'-P-OP1	-7.21	99.21	105.70
80	6	248	U	O5'-P-OP1	-7.21	99.21	105.70
80	6	268	C	N3-C4-C5	7.21	124.78	121.90
80	6	388	G	C4-C5-C6	7.21	123.13	118.80
80	6	952	A	N1-C6-N6	-7.21	114.27	118.60
85	5	376	G	C5-C6-O6	-7.21	124.27	128.60
85	5	1709	C	C2-N3-C4	-7.21	116.29	119.90
85	5	2240	G	N9-C4-C5	-7.21	102.51	105.40
38	8	130	C	N1-C2-N3	7.21	124.25	119.20
36	1	2120	A	OP1-P-OP2	7.21	130.42	119.60
36	1	2179	C	N3-C2-O2	-7.21	116.85	121.90
36	1	2259	A	N1-C2-N3	7.21	132.91	129.30
80	6	1019	A	N7-C8-N9	-7.21	110.19	113.80
85	5	241	G	C4-C5-N7	7.21	113.69	110.80
85	5	260	C	O5'-P-OP1	-7.21	99.21	105.70
85	5	783	A	C8-N9-C4	7.21	108.69	105.80
85	5	1006	A	C4-C5-N7	-7.21	107.09	110.70
85	5	1161	G	C6-N1-C2	-7.21	120.77	125.10
85	5	2341	A	C6-N1-C2	-7.21	114.27	118.60
1	2	608	U	C2-N3-C4	-7.21	122.67	127.00
1	2	955	G	N7-C8-N9	7.21	116.71	113.10
36	1	155	G	N1-C6-O6	-7.21	115.57	119.90
36	1	697	A	N3-C4-C5	7.21	131.85	126.80
36	1	954	U	N1-C2-N3	7.21	119.23	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1520	G	N1-C2-N3	-7.21	119.57	123.90
36	1	1654	A	N3-C4-C5	-7.21	121.75	126.80
36	1	1789	G	C8-N9-C4	7.21	109.28	106.40
36	1	2601	A	N1-C6-N6	-7.21	114.27	118.60
36	1	2609	A	N7-C8-N9	-7.21	110.19	113.80
85	5	588	G	N7-C8-N9	-7.21	109.49	113.10
85	5	866	A	N7-C8-N9	-7.21	110.19	113.80
85	5	1142	G	C6-C5-N7	-7.21	126.07	130.40
85	5	1299	U	N3-C2-O2	-7.21	117.15	122.20
85	5	2152	A	C5-C6-N6	7.21	129.47	123.70
85	5	2262	A	OP1-P-O3'	7.21	121.06	105.20
85	5	3073	A	C4-C5-N7	7.21	114.31	110.70
85	5	3156	U	N1-C2-O2	7.21	127.85	122.80
37	7	18	C	OP1-P-OP2	7.21	130.42	119.60
1	2	635	A	C5-C6-N1	-7.21	114.09	117.70
1	2	844	U	N3-C2-O2	-7.21	117.15	122.20
1	2	1541	U	C4-C5-C6	-7.21	115.37	119.70
36	1	157	A	C5-C6-N1	7.21	121.31	117.70
36	1	803	C	C5-C6-N1	7.21	124.61	121.00
36	1	1925	U	C5-C4-O4	-7.21	121.57	125.90
36	1	2195	C	C5-C6-N1	7.21	124.61	121.00
37	3	29	C	N1-C2-N3	7.21	124.25	119.20
38	4	27	U	N3-C4-C5	7.21	118.93	114.60
80	6	55	A	OP1-P-OP2	-7.21	108.78	119.60
85	5	1175	C	N1-C2-O2	7.21	123.23	118.90
85	5	1544	G	N7-C8-N9	-7.21	109.50	113.10
85	5	2661	G	C2-N3-C4	7.21	115.50	111.90
46	19	166	ARG	NE-CZ-NH1	7.21	123.91	120.30
1	2	1080	U	OP1-P-OP2	-7.21	108.79	119.60
36	1	1162	U	N1-C2-O2	-7.21	117.75	122.80
36	1	1786	G	C8-N9-C4	-7.21	103.52	106.40
80	6	395	U	C4-C5-C6	7.21	124.03	119.70
80	6	1475	A	C5-C6-N1	-7.21	114.10	117.70
85	5	595	G	N1-C2-N2	-7.21	109.71	116.20
85	5	980	A	C5-N7-C8	7.21	107.50	103.90
85	5	1102	A	N1-C6-N6	-7.21	114.27	118.60
85	5	1157	G	C6-C5-N7	7.21	134.72	130.40
37	7	12	U	N1-C2-N3	-7.21	110.57	114.90
1	2	630	A	C2-N3-C4	-7.21	107.00	110.60
1	2	971	A	C4-C5-N7	7.21	114.30	110.70
36	1	383	G	C2-N3-C4	7.21	115.50	111.90
36	1	522	A	N9-C4-C5	-7.21	102.92	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	673	U	O5'-P-OP1	7.21	119.35	110.70
36	1	962	A	C5-N7-C8	-7.21	100.30	103.90
36	1	2520	A	N7-C8-N9	-7.21	110.20	113.80
36	1	2758	A	OP1-P-OP2	7.21	130.41	119.60
36	1	2811	A	N3-C4-C5	-7.21	121.75	126.80
36	1	3336	A	C8-N9-C4	-7.21	102.92	105.80
80	6	151	G	C4-C5-N7	-7.21	107.92	110.80
85	5	54	C	N1-C2-N3	7.21	124.25	119.20
85	5	505	G	N3-C2-N2	-7.21	114.86	119.90
85	5	1362	G	N1-C2-N3	7.21	128.22	123.90
85	5	1399	A	N3-C4-N9	-7.21	121.63	127.40
85	5	2426	U	N3-C4-C5	-7.21	110.28	114.60
85	5	3214	U	C2-N3-C4	-7.21	122.68	127.00
36	1	1699	A	C2-N3-C4	-7.21	107.00	110.60
36	1	2113	A	C2-N3-C4	7.21	114.20	110.60
36	1	2761	G	N7-C8-N9	-7.21	109.50	113.10
80	6	761	G	N3-C4-C5	-7.21	125.00	128.60
85	5	2704	A	C5'-C4'-O4'	-7.21	100.45	109.10
85	5	2898	G	N1-C6-O6	7.21	124.22	119.90
36	1	353	G	C8-N9-C4	-7.20	103.52	106.40
36	1	355	A	OP2-P-O3'	7.20	121.05	105.20
36	1	758	C	C2-N3-C4	-7.20	116.30	119.90
36	1	1847	A	C5-C6-N1	-7.20	114.10	117.70
80	6	950	C	O5'-P-OP2	-7.20	99.22	105.70
85	5	932	U	O5'-P-OP1	7.20	119.34	110.70
85	5	1107	C	N1-C2-N3	7.20	124.24	119.20
85	5	1485	G	C5-N7-C8	-7.20	100.70	104.30
85	5	2714	G	C8-N9-C4	-7.20	103.52	106.40
85	5	2825	C	N3-C2-O2	7.20	126.94	121.90
38	8	24	G	N9-C4-C5	7.20	108.28	105.40
36	1	856	G	N1-C6-O6	-7.20	115.58	119.90
80	6	93	A	C5-N7-C8	7.20	107.50	103.90
80	6	1535	U	C2-N3-C4	-7.20	122.68	127.00
85	5	956	U	N3-C2-O2	7.20	127.24	122.20
85	5	2772	C	C6-N1-C2	-7.20	117.42	120.30
85	5	2868	U	C6-N1-C2	-7.20	116.68	121.00
85	5	3149	G	C2-N3-C4	-7.20	108.30	111.90
38	8	49	G	O5'-P-OP1	-7.20	99.22	105.70
38	8	116	G	C4-C5-N7	7.20	113.68	110.80
1	2	1109	G	N7-C8-N9	-7.20	109.50	113.10
36	1	640	U	N3-C2-O2	-7.20	117.16	122.20
36	1	1121	U	N3-C4-O4	-7.20	114.36	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1378	U	OP1-P-O3'	7.20	121.04	105.20
36	1	2715	A	N3-C4-C5	-7.20	121.76	126.80
36	1	3065	G	N1-C6-O6	7.20	124.22	119.90
80	6	190	C	C5-C6-N1	7.20	124.60	121.00
80	6	1114	G	N3-C4-C5	-7.20	125.00	128.60
85	5	220	G	C2-N3-C4	-7.20	108.30	111.90
85	5	746	A	N1-C6-N6	-7.20	114.28	118.60
85	5	1001	G	C6-C5-N7	7.20	134.72	130.40
85	5	2995	A	C4-C5-N7	-7.20	107.10	110.70
85	5	3375	A	C2-N3-C4	-7.20	107.00	110.60
1	2	459	G	C6-C5-N7	-7.20	126.08	130.40
36	1	151	A	N7-C8-N9	7.20	117.40	113.80
36	1	1121	U	OP1-P-O3'	-7.20	89.36	105.20
36	1	1405	U	O5'-P-OP2	-7.20	99.22	105.70
36	1	3053	G	OP2-P-O3'	7.20	121.04	105.20
37	3	54	U	N3-C2-O2	-7.20	117.16	122.20
37	3	90	U	N3-C4-O4	-7.20	114.36	119.40
38	4	94	C	C4-C5-C6	7.20	121.00	117.40
80	6	936	G	N1-C6-O6	7.20	124.22	119.90
80	6	1198	G	N1-C2-N2	7.20	122.68	116.20
80	6	1517	U	N1-C2-N3	7.20	119.22	114.90
85	5	145	G	O5'-P-OP1	7.20	119.34	110.70
85	5	643	U	OP1-P-OP2	7.20	130.40	119.60
85	5	676	G	C5-C6-O6	7.20	132.92	128.60
85	5	935	U	OP2-P-O3'	7.20	121.04	105.20
85	5	1216	C	OP1-P-OP2	-7.20	108.80	119.60
85	5	1617	G	C6-C5-N7	-7.20	126.08	130.40
85	5	1796	G	O5'-P-OP2	-7.20	99.22	105.70
85	5	2348	A	N1-C2-N3	7.20	132.90	129.30
85	5	3026	G	C6-C5-N7	-7.20	126.08	130.40
85	5	3314	A	N9-C4-C5	7.20	108.68	105.80
41	14	244	LEU	CB-CG-CD1	-7.20	98.76	111.00
1	2	282	C	N1-C2-O2	7.20	123.22	118.90
36	1	246	U	C5-C6-N1	7.20	126.30	122.70
36	1	1463	U	N1-C2-N3	7.20	119.22	114.90
85	5	1419	A	C4-C5-N7	7.20	114.30	110.70
85	5	2180	G	O5'-P-OP1	7.20	119.34	110.70
85	5	2357	A	OP1-P-O3'	-7.20	89.37	105.20
36	1	558	U	O5'-P-OP1	-7.20	99.22	105.70
36	1	1189	C	C5-C6-N1	-7.20	117.40	121.00
36	1	1534	A	C4-C5-C6	-7.20	113.40	117.00
36	1	1864	A	C4-C5-N7	7.20	114.30	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2618	G	N3-C2-N2	7.20	124.94	119.90
85	5	913	A	OP1-P-O3'	7.20	121.03	105.20
85	5	1188	U	N1-C2-N3	7.20	119.22	114.90
85	5	1280	C	N1-C2-O2	7.20	123.22	118.90
85	5	2787	G	N7-C8-N9	7.20	116.70	113.10
69	o3	102	LEU	CA-CB-CG	-7.20	98.75	115.30
36	1	2727	A	N1-C6-N6	-7.19	114.28	118.60
36	1	2877	G	O5'-P-OP2	-7.19	99.22	105.70
85	5	516	A	C8-N9-C4	7.19	108.68	105.80
37	7	66	A	C8-N9-C4	7.19	108.68	105.80
1	2	263	C	N1-C2-O2	-7.19	114.58	118.90
36	1	79	U	C4-C5-C6	7.19	124.02	119.70
36	1	351	A	C8-N9-C4	7.19	108.68	105.80
36	1	2113	A	N3-C4-C5	-7.19	121.77	126.80
36	1	2979	U	C4-C5-C6	7.19	124.02	119.70
80	6	875	G	N9-C4-C5	7.19	108.28	105.40
85	5	78	U	C5-C6-N1	-7.19	119.10	122.70
85	5	241	G	C8-N9-C4	-7.19	103.52	106.40
85	5	1594	A	N7-C8-N9	7.19	117.40	113.80
85	5	1718	G	C2-N3-C4	-7.19	108.30	111.90
85	5	2587	U	C5-C4-O4	-7.19	121.58	125.90
85	5	3131	U	C6-N1-C2	7.19	125.31	121.00
36	1	186	U	N3-C4-C5	-7.19	110.29	114.60
36	1	625	G	N1-C2-N2	-7.19	109.73	116.20
36	1	1477	A	C8-N9-C4	-7.19	102.92	105.80
36	1	1713	G	N7-C8-N9	7.19	116.70	113.10
36	1	2851	A	N1-C2-N3	7.19	132.90	129.30
36	1	3275	U	C6-N1-C2	-7.19	116.69	121.00
80	6	448	C	C5-C6-N1	-7.19	117.41	121.00
80	6	558	U	C2-N1-C1'	7.19	126.33	117.70
80	6	1422	A	C8-N9-C4	-7.19	102.92	105.80
80	6	1777	G	C5-C6-N1	-7.19	107.90	111.50
85	5	232	G	N1-C6-O6	-7.19	115.58	119.90
85	5	666	A	N1-C6-N6	-7.19	114.28	118.60
85	5	937	G	C2-N3-C4	-7.19	108.30	111.90
85	5	1805	C	C2-N3-C4	-7.19	116.31	119.90
47	m0	177	ASP	CB-CG-OD1	-7.19	111.83	118.30
36	1	809	G	N1-C2-N3	7.19	128.21	123.90
36	1	2180	G	C4-C5-C6	7.19	123.11	118.80
80	6	947	U	N3-C4-O4	7.19	124.43	119.40
85	5	2204	C	OP1-P-O3'	7.19	121.02	105.20
85	5	2807	U	N3-C4-O4	7.19	124.43	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2431	C	C4-C5-C6	7.19	120.99	117.40
36	1	2810	C	O5'-P-OP2	7.19	119.33	110.70
36	1	2940	A	C5-C6-N6	-7.19	117.95	123.70
38	4	36	G	O5'-P-OP2	7.19	119.33	110.70
40	L3	216	ASP	CB-CG-OD1	7.19	124.77	118.30
80	6	374	U	N1-C2-O2	-7.19	117.77	122.80
80	6	467	G	N1-C6-O6	-7.19	115.59	119.90
85	5	25	U	O5'-P-OP1	7.19	119.32	110.70
85	5	997	A	C5-N7-C8	-7.19	100.31	103.90
85	5	1771	C	N3-C2-O2	-7.19	116.87	121.90
85	5	1888	U	C2-N3-C4	-7.19	122.69	127.00
85	5	2204	C	N3-C4-C5	7.19	124.78	121.90
85	5	2316	G	C6-N1-C2	-7.19	120.79	125.10
85	5	2653	C	C5-C6-N1	7.19	124.59	121.00
85	5	3375	A	N7-C8-N9	7.19	117.39	113.80
1	2	93	A	N9-C4-C5	7.19	108.67	105.80
36	1	947	G	N1-C2-N2	-7.19	109.73	116.20
36	1	2608	G	N1-C2-N2	7.19	122.67	116.20
36	1	3184	A	C5-N7-C8	-7.19	100.31	103.90
80	6	418	G	N1-C2-N2	-7.19	109.73	116.20
80	6	1027	A	C8-N9-C4	7.19	108.67	105.80
85	5	769	G	N7-C8-N9	-7.19	109.51	113.10
85	5	1554	U	C5-C6-N1	7.19	126.29	122.70
1	2	752	A	C2-N3-C4	7.18	114.19	110.60
1	2	955	G	C8-N9-C4	-7.18	103.53	106.40
1	2	1043	U	N1-C2-O2	7.18	127.83	122.80
36	1	628	A	C2-N3-C4	-7.18	107.01	110.60
36	1	1310	G	C5-N7-C8	-7.18	100.71	104.30
36	1	1420	C	N3-C4-C5	-7.18	119.03	121.90
36	1	1654	A	C5-C6-N6	-7.18	117.95	123.70
36	1	2143	A	OP1-P-OP2	-7.18	108.82	119.60
36	1	2697	A	C5-C6-N1	7.18	121.29	117.70
36	1	3299	A	N1-C6-N6	7.18	122.91	118.60
80	6	207	U	N1-C2-N3	-7.18	110.59	114.90
80	6	798	C	C6-N1-C2	-7.18	117.43	120.30
80	6	1737	G	C5-N7-C8	-7.18	100.71	104.30
85	5	283	G	C6-C5-N7	-7.18	126.09	130.40
85	5	370	U	N1-C2-O2	-7.18	117.77	122.80
85	5	904	A	N1-C6-N6	-7.18	114.29	118.60
85	5	1224	C	C6-N1-C2	-7.18	117.43	120.30
85	5	1474	A	C6-C5-N7	-7.18	127.27	132.30
85	5	1496	C	C6-N1-C1'	-7.18	112.18	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	103	G	C4-C5-N7	7.18	113.67	110.80
1	2	540	G	C2-N3-C4	7.18	115.49	111.90
36	1	791	A	N9-C4-C5	7.18	108.67	105.80
36	1	931	C	C2-N3-C4	-7.18	116.31	119.90
36	1	2128	C	C2-N3-C4	-7.18	116.31	119.90
36	1	2552	C	N3-C4-N4	-7.18	112.97	118.00
36	1	2902	A	C2-N3-C4	-7.18	107.01	110.60
36	1	2903	A	N7-C8-N9	-7.18	110.21	113.80
36	1	2943	G	N1-C2-N3	7.18	128.21	123.90
38	4	92	A	N3-C4-C5	7.18	131.83	126.80
85	5	1479	U	N3-C2-O2	-7.18	117.17	122.20
85	5	3305	A	N3-C4-N9	-7.18	121.65	127.40
36	1	1741	A	N1-C2-N3	7.18	132.89	129.30
36	1	3103	A	C4-C5-C6	7.18	120.59	117.00
36	1	3199	G	N1-C6-O6	-7.18	115.59	119.90
80	6	370	A	C4-C5-N7	-7.18	107.11	110.70
80	6	898	A	N1-C6-N6	-7.18	114.29	118.60
85	5	1058	U	N3-C4-C5	-7.18	110.29	114.60
36	1	552	G	N1-C2-N3	7.18	128.21	123.90
36	1	1661	G	OP1-P-OP2	-7.18	108.83	119.60
36	1	2412	G	N3-C4-N9	7.18	130.31	126.00
36	1	2699	G	C5-N7-C8	-7.18	100.71	104.30
36	1	2831	G	O5'-P-OP2	7.18	119.32	110.70
36	1	3093	C	OP1-P-O3'	7.18	121.00	105.20
37	3	56	A	O5'-P-OP1	7.18	119.31	110.70
38	4	138	A	C4-C5-N7	7.18	114.29	110.70
85	5	1636	U	C6-N1-C2	7.18	125.31	121.00
85	5	2361	A	C2-N3-C4	7.18	114.19	110.60
85	5	2665	U	N1-C2-O2	-7.18	117.77	122.80
36	1	649	A	N9-C4-C5	-7.18	102.93	105.80
36	1	1388	U	O5'-P-OP2	-7.18	99.24	105.70
85	5	767	U	N3-C2-O2	-7.18	117.18	122.20
85	5	910	G	C5-C6-N1	-7.18	107.91	111.50
85	5	1072	G	N7-C8-N9	7.18	116.69	113.10
85	5	1815	U	N1-C2-N3	-7.18	110.59	114.90
85	5	2347	U	OP1-P-O3'	-7.18	89.41	105.20
1	2	989	C	N1-C2-O2	-7.17	114.60	118.90
1	2	1276	U	N3-C2-O2	7.17	127.22	122.20
36	1	109	A	N1-C2-N3	-7.17	125.71	129.30
36	1	430	U	C6-N1-C2	-7.17	116.69	121.00
36	1	846	A	N1-C2-N3	7.17	132.89	129.30
36	1	1112	A	N7-C8-N9	-7.17	110.21	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1393	A	N7-C8-N9	-7.17	110.21	113.80
85	5	82	C	C5-C6-N1	-7.17	117.41	121.00
85	5	394	G	OP1-P-OP2	7.17	130.36	119.60
85	5	1276	U	N3-C2-O2	-7.17	117.18	122.20
85	5	1323	G	C5-C6-N1	7.17	115.09	111.50
85	5	1600	U	C6-N1-C2	7.17	125.31	121.00
85	5	2728	G	C2-N3-C4	-7.17	108.31	111.90
1	2	977	G	N7-C8-N9	-7.17	109.51	113.10
36	1	199	A	N3-C4-C5	-7.17	121.78	126.80
36	1	1043	C	N3-C4-N4	-7.17	112.98	118.00
36	1	1133	A	N1-C2-N3	7.17	132.89	129.30
36	1	1166	G	C5-C6-N1	-7.17	107.91	111.50
80	6	1155	G	N3-C4-C5	7.17	132.19	128.60
1	2	78	A	N3-C4-C5	-7.17	121.78	126.80
1	2	325	G	C4-C5-C6	7.17	123.10	118.80
1	2	980	G	C8-N9-C4	-7.17	103.53	106.40
36	1	195	U	C6-N1-C2	7.17	125.30	121.00
36	1	262	U	OP1-P-OP2	-7.17	108.84	119.60
36	1	621	A	C2-N3-C4	7.17	114.19	110.60
36	1	858	A	C6-N1-C2	-7.17	114.30	118.60
36	1	2289	U	OP1-P-OP2	-7.17	108.84	119.60
36	1	2946	A	N1-C6-N6	-7.17	114.30	118.60
36	1	3063	C	C2-N3-C4	-7.17	116.31	119.90
36	1	3130	A	N7-C8-N9	7.17	117.39	113.80
36	1	3318	G	C5-C6-O6	7.17	132.90	128.60
47	M0	88	ARG	NE-CZ-NH1	-7.17	116.71	120.30
80	6	259	U	C5-C6-N1	-7.17	119.11	122.70
85	5	188	U	O5'-P-OP2	7.17	119.31	110.70
85	5	252	U	C5-C6-N1	7.17	126.29	122.70
85	5	368	G	C8-N9-C4	-7.17	103.53	106.40
85	5	400	G	C6-C5-N7	-7.17	126.10	130.40
85	5	416	A	N9-C4-C5	7.17	108.67	105.80
85	5	989	A	C5-C6-N1	7.17	121.28	117.70
85	5	1019	G	C4-C5-N7	-7.17	107.93	110.80
85	5	1054	A	OP1-P-O3'	7.17	120.98	105.20
85	5	1613	A	C2-N3-C4	-7.17	107.01	110.60
85	5	2556	C	N1-C2-O2	7.17	123.20	118.90
37	7	8	G	N1-C2-N3	7.17	128.20	123.90
36	1	1153	A	C2-N3-C4	-7.17	107.02	110.60
36	1	2206	G	N9-C4-C5	-7.17	102.53	105.40
85	5	708	G	C2-N3-C4	-7.17	108.31	111.90
85	5	882	A	O5'-P-OP1	-7.17	99.25	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	947	G	OP1-P-OP2	7.17	130.35	119.60
1	2	439	U	N1-C2-N3	7.17	119.20	114.90
1	2	801	C	C2-N3-C4	7.17	123.48	119.90
36	1	547	G	C6-N1-C2	7.17	129.40	125.10
36	1	578	A	C8-N9-C4	7.17	108.67	105.80
36	1	1697	A	C5-C6-N6	7.17	129.44	123.70
36	1	1774	C	N3-C4-C5	7.17	124.77	121.90
80	6	580	A	N1-C6-N6	-7.17	114.30	118.60
80	6	1456	C	N3-C2-O2	-7.17	116.88	121.90
85	5	98	G	N1-C2-N3	7.17	128.20	123.90
85	5	367	A	N1-C2-N3	7.17	132.88	129.30
85	5	531	G	N7-C8-N9	7.17	116.68	113.10
85	5	792	G	N3-C4-C5	7.17	132.18	128.60
85	5	1465	A	C4-C5-C6	7.17	120.58	117.00
85	5	1720	U	N3-C4-C5	-7.17	110.30	114.60
85	5	3345	G	C5-C6-N1	-7.17	107.92	111.50
37	7	12	U	OP2-P-O3'	7.17	120.97	105.20
37	7	90	U	C2-N3-C4	-7.17	122.70	127.00
1	2	153	G	N1-C6-O6	-7.17	115.60	119.90
1	2	981	A	N7-C8-N9	7.17	117.38	113.80
1	2	1115	A	C5-N7-C8	7.17	107.48	103.90
1	2	1714	A	N9-C4-C5	-7.17	102.93	105.80
36	1	757	C	O5'-P-OP2	-7.17	99.25	105.70
36	1	802	C	C2-N1-C1'	7.17	126.68	118.80
36	1	1035	G	N3-C4-C5	-7.17	125.02	128.60
36	1	3216	G	N9-C4-C5	7.17	108.27	105.40
80	6	415	C	N3-C2-O2	-7.17	116.88	121.90
80	6	570	A	C4-C5-N7	7.17	114.28	110.70
85	5	555	U	N3-C4-O4	7.17	124.42	119.40
85	5	1180	A	N7-C8-N9	-7.17	110.22	113.80
85	5	1339	C	C5-C4-N4	-7.17	115.18	120.20
85	5	2414	G	O4'-C1'-N9	-7.17	102.47	108.20
80	6	1759	C	N1-C2-O2	-7.17	114.60	118.90
85	5	1722	U	N3-C2-O2	-7.17	117.19	122.20
85	5	1935	G	C8-N9-C1'	7.17	136.31	127.00
37	7	16	U	C6-N1-C2	7.17	125.30	121.00
1	2	1018	G	N1-C2-N2	-7.16	109.75	116.20
1	2	1226	G	O5'-P-OP2	-7.16	99.25	105.70
36	1	38	U	OP1-P-O3'	7.16	120.96	105.20
36	1	1216	C	O5'-P-OP2	-7.16	99.25	105.70
36	1	1593	A	C4-C5-C6	7.16	120.58	117.00
36	1	1673	G	N1-C2-N3	7.16	128.20	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	M8	138	LEU	CA-CB-CG	7.16	131.78	115.30
80	6	294	C	C2-N3-C4	-7.16	116.32	119.90
80	6	1449	U	C2-N3-C4	7.16	131.30	127.00
85	5	514	G	N3-C2-N2	-7.16	114.89	119.90
85	5	1063	G	C6-C5-N7	-7.16	126.10	130.40
85	5	1512	U	N1-C2-N3	7.16	119.20	114.90
85	5	1515	A	O5'-P-OP1	7.16	119.30	110.70
37	7	118	A	N9-C4-C5	7.16	108.67	105.80
38	8	80	A	P-O3'-C3'	7.16	128.29	119.70
36	1	53	G	C8-N9-C1'	-7.16	117.69	127.00
36	1	906	A	N3-C4-N9	7.16	133.13	127.40
36	1	935	U	O5'-P-OP1	-7.16	99.25	105.70
80	6	369	A	OP1-P-OP2	-7.16	108.86	119.60
80	6	1649	G	C6-N1-C2	7.16	129.40	125.10
85	5	706	A	N1-C2-N3	7.16	132.88	129.30
85	5	2125	A	C4-C5-N7	7.16	114.28	110.70
85	5	2299	A	N1-C6-N6	7.16	122.90	118.60
37	7	33	U	C6-N1-C2	7.16	125.30	121.00
1	2	217	A	C5-C6-N1	-7.16	114.12	117.70
36	1	53	G	C2-N3-C4	-7.16	108.32	111.90
36	1	421	G	O5'-P-OP1	-7.16	99.26	105.70
36	1	1103	A	C5-C6-N1	7.16	121.28	117.70
36	1	2510	U	O5'-P-OP2	-7.16	99.26	105.70
36	1	2828	G	N3-C2-N2	7.16	124.91	119.90
36	1	2875	U	C5-C6-N1	7.16	126.28	122.70
36	1	3232	G	N7-C8-N9	7.16	116.68	113.10
37	3	116	C	C4-C5-C6	-7.16	113.82	117.40
38	4	34	U	OP1-P-O3'	7.16	120.95	105.20
38	4	116	G	N9-C4-C5	-7.16	102.53	105.40
80	6	86	A	C6-N1-C2	-7.16	114.30	118.60
85	5	761	A	C2-N3-C4	7.16	114.18	110.60
85	5	1591	G	C4-C5-N7	-7.16	107.94	110.80
85	5	2093	A	C4-C5-C6	-7.16	113.42	117.00
85	5	2312	A	OP1-P-O3'	7.16	120.95	105.20
85	5	3207	U	C6-N1-C2	-7.16	116.70	121.00
36	1	292	U	N3-C4-O4	7.16	124.41	119.40
36	1	2730	G	O5'-P-OP1	-7.16	99.26	105.70
38	4	1	A	OP1-P-OP2	-7.16	108.86	119.60
38	4	52	A	O5'-P-OP1	-7.16	99.26	105.70
80	6	317	C	C5-C4-N4	-7.16	115.19	120.20
80	6	561	G	C6-C5-N7	-7.16	126.11	130.40
85	5	30	G	C6-C5-N7	-7.16	126.11	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	537	A	OP2-P-O3'	7.16	120.95	105.20
85	5	1838	G	C5-N7-C8	-7.16	100.72	104.30
1	2	705	G	C8-N9-C4	-7.16	103.54	106.40
36	1	742	G	N3-C2-N2	-7.16	114.89	119.90
36	1	1287	A	N7-C8-N9	7.16	117.38	113.80
36	1	1315	U	O5'-P-OP2	-7.16	99.26	105.70
36	1	1949	G	C2-N3-C4	7.16	115.48	111.90
36	1	2852	C	C2-N3-C4	-7.16	116.32	119.90
36	1	3289	G	C5-C6-N1	7.16	115.08	111.50
37	3	75	G	C8-N9-C4	7.16	109.26	106.40
36	1	364	G	C8-N9-C4	7.16	109.26	106.40
36	1	535	G	N1-C6-O6	7.16	124.19	119.90
36	1	637	C	C6-N1-C2	7.16	123.16	120.30
36	1	1070	U	OP1-P-OP2	-7.16	108.87	119.60
36	1	1203	A	C4-C5-C6	-7.16	113.42	117.00
36	1	1832	C	C5-C6-N1	7.16	124.58	121.00
36	1	2434	U	C5-C6-N1	-7.16	119.12	122.70
80	6	863	A	N1-C6-N6	7.16	122.89	118.60
80	6	934	C	C2-N1-C1'	7.16	126.67	118.80
85	5	24	G	C2-N3-C4	7.16	115.48	111.90
85	5	395	A	O5'-P-OP2	-7.16	99.26	105.70
85	5	1080	A	C5-C6-N1	-7.16	114.12	117.70
85	5	1715	A	C5-N7-C8	-7.16	100.32	103.90
85	5	2620	G	N3-C4-N9	-7.16	121.71	126.00
85	5	3065	G	N3-C4-N9	-7.16	121.71	126.00
1	2	1599	G	C5-C6-O6	-7.15	124.31	128.60
36	1	527	A	OP1-P-OP2	-7.15	108.87	119.60
36	1	1323	G	N3-C4-C5	-7.15	125.02	128.60
36	1	2639	G	N1-C6-O6	7.15	124.19	119.90
36	1	3222	U	N1-C2-O2	-7.15	117.79	122.80
80	6	953	G	N7-C8-N9	-7.15	109.52	113.10
85	5	1166	G	N1-C2-N3	7.15	128.19	123.90
85	5	2630	C	C5-C6-N1	7.15	124.58	121.00
1	2	635	A	C2-N3-C4	-7.15	107.02	110.60
1	2	752	A	C5-C6-N1	7.15	121.28	117.70
1	2	1094	G	N3-C4-C5	7.15	132.18	128.60
1	2	1556	A	P-O3'-C3'	7.15	128.28	119.70
36	1	154	U	N3-C4-C5	-7.15	110.31	114.60
36	1	299	G	N1-C2-N3	-7.15	119.61	123.90
36	1	1748	G	N3-C2-N2	-7.15	114.89	119.90
36	1	1892	G	C5-C6-N1	7.15	115.08	111.50
36	1	2174	G	C5-N7-C8	-7.15	100.72	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	2	A	C5-C6-N6	7.15	129.42	123.70
80	6	366	A	C8-N9-C4	7.15	108.66	105.80
80	6	471	A	C4-C5-C6	7.15	120.58	117.00
80	6	1046	G	C8-N9-C4	7.15	109.26	106.40
80	6	1209	C	N1-C2-O2	-7.15	114.61	118.90
85	5	341	G	C2-N3-C4	-7.15	108.32	111.90
85	5	425	G	N3-C2-N2	-7.15	114.89	119.90
85	5	1929	G	C4-C5-N7	7.15	113.66	110.80
1	2	596	C	N3-C4-N4	7.15	123.01	118.00
1	2	1369	G	C5-C6-N1	-7.15	107.92	111.50
1	2	1572	C	C5-C4-N4	7.15	125.20	120.20
36	1	17	G	C4-C5-C6	-7.15	114.51	118.80
36	1	787	G	OP1-P-O3'	7.15	120.93	105.20
36	1	1303	A	C5-C6-N1	7.15	121.28	117.70
36	1	1307	G	N7-C8-N9	-7.15	109.53	113.10
36	1	1740	U	C5-C6-N1	-7.15	119.12	122.70
36	1	2407	C	C2-N3-C4	-7.15	116.33	119.90
37	3	99	G	N7-C8-N9	7.15	116.68	113.10
38	4	50	C	N3-C4-N4	7.15	123.00	118.00
38	4	114	G	C6-N1-C2	7.15	129.39	125.10
80	6	1000	C	C6-N1-C1'	-7.15	112.22	120.80
80	6	1081	A	N1-C6-N6	7.15	122.89	118.60
80	6	1155	G	C5-C6-N1	7.15	115.08	111.50
80	6	1198	G	N3-C4-C5	7.15	132.18	128.60
85	5	294	U	N3-C2-O2	7.15	127.20	122.20
85	5	635	G	N3-C4-C5	7.15	132.18	128.60
85	5	812	G	C4-C5-N7	-7.15	107.94	110.80
85	5	911	C	N3-C2-O2	7.15	126.91	121.90
85	5	1510	G	OP2-P-O3'	7.15	120.93	105.20
85	5	1707	A	N9-C4-C5	7.15	108.66	105.80
85	5	1777	U	N3-C2-O2	-7.15	117.19	122.20
85	5	1920	U	C5-C4-O4	7.15	130.19	125.90
85	5	2738	A	O5'-P-OP1	7.15	119.28	110.70
1	2	999	C	C6-N1-C2	-7.15	117.44	120.30
1	2	1585	C	N3-C4-C5	7.15	124.76	121.90
1	2	1596	U	C6-N1-C2	7.15	125.29	121.00
36	1	437	G	C4-C5-C6	-7.15	114.51	118.80
36	1	869	G	O5'-P-OP1	7.15	119.28	110.70
36	1	1871	U	C6-N1-C2	-7.15	116.71	121.00
36	1	2381	G	C5-N7-C8	-7.15	100.72	104.30
36	1	3300	U	N1-C2-O2	-7.15	117.80	122.80
85	5	742	G	C5-C6-N1	7.15	115.07	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1405	U	C5-C6-N1	-7.15	119.12	122.70
85	5	1541	G	C8-N9-C4	7.15	109.26	106.40
85	5	2525	G	N1-C6-O6	-7.15	115.61	119.90
85	5	3375	A	N1-C2-N3	7.15	132.87	129.30
42	15	21	ARG	NE-CZ-NH1	-7.15	116.73	120.30
36	1	824	C	N1-C2-O2	7.15	123.19	118.90
36	1	1041	U	O5'-P-OP2	-7.15	99.27	105.70
36	1	1706	C	C4-C5-C6	7.15	120.97	117.40
36	1	3041	U	C5-C4-O4	7.15	130.19	125.90
37	3	64	A	C2-N3-C4	7.15	114.17	110.60
80	6	15	U	C2-N3-C4	-7.15	122.71	127.00
80	6	1142	A	N9-C4-C5	7.15	108.66	105.80
85	5	328	U	OP1-P-OP2	-7.15	108.88	119.60
85	5	1702	U	C6-N1-C2	-7.15	116.71	121.00
1	2	884	G	C5-N7-C8	-7.15	100.73	104.30
36	1	1089	G	C5-N7-C8	7.15	107.87	104.30
85	5	2260	U	N1-C2-O2	-7.15	117.80	122.80
85	5	3172	A	OP1-P-OP2	7.15	130.32	119.60
85	5	3314	A	OP2-P-O3'	7.15	120.92	105.20
36	1	1161	G	N7-C8-N9	7.14	116.67	113.10
36	1	1385	C	O5'-P-OP2	-7.14	99.27	105.70
36	1	1416	C	N1-C2-O2	7.14	123.19	118.90
38	4	153	U	C5-C6-N1	-7.14	119.13	122.70
80	6	1513	G	N9-C4-C5	7.14	108.26	105.40
85	5	1281	G	C5-C6-N1	7.14	115.07	111.50
85	5	1307	G	N3-C4-C5	-7.14	125.03	128.60
85	5	1874	A	OP2-P-O3'	7.14	120.92	105.20
85	5	2411	U	C5-C6-N1	-7.14	119.13	122.70
85	5	2519	A	N1-C2-N3	7.14	132.87	129.30
85	5	3234	A	C5-N7-C8	7.14	107.47	103.90
1	2	18	C	C5-C6-N1	7.14	124.57	121.00
1	2	411	C	O5'-P-OP1	-7.14	99.27	105.70
36	1	108	A	OP2-P-O3'	7.14	120.92	105.20
36	1	340	C	N3-C2-O2	-7.14	116.90	121.90
36	1	1588	A	N7-C8-N9	-7.14	110.23	113.80
36	1	3210	A	N1-C2-N3	7.14	132.87	129.30
85	5	26	A	C8-N9-C4	7.14	108.66	105.80
85	5	1613	A	N1-C6-N6	7.14	122.89	118.60
85	5	2506	U	N1-C2-N3	-7.14	110.61	114.90
85	5	2624	G	C5-C6-O6	-7.14	124.31	128.60
1	2	350	U	C5-C6-N1	-7.14	119.13	122.70
36	1	1748	G	C2-N3-C4	-7.14	108.33	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2971	A	N1-C2-N3	7.14	132.87	129.30
36	1	3370	A	N7-C8-N9	7.14	117.37	113.80
80	6	243	G	C4-C5-N7	7.14	113.66	110.80
80	6	758	U	N1-C2-O2	7.14	127.80	122.80
85	5	773	G	C4-C5-C6	7.14	123.08	118.80
85	5	917	A	C6-C5-N7	-7.14	127.30	132.30
85	5	1531	C	C6-N1-C2	-7.14	117.44	120.30
85	5	2320	A	N3-C4-N9	-7.14	121.69	127.40
1	2	1110	G	N9-C4-C5	7.14	108.26	105.40
36	1	846	A	N1-C6-N6	7.14	122.88	118.60
36	1	1412	G	N1-C2-N3	7.14	128.18	123.90
36	1	1753	G	C5-N7-C8	-7.14	100.73	104.30
36	1	1892	G	N1-C6-O6	-7.14	115.62	119.90
36	1	2733	A	N1-C6-N6	7.14	122.88	118.60
80	6	431	C	C5-C4-N4	7.14	125.20	120.20
85	5	852	U	N1-C2-O2	-7.14	117.80	122.80
85	5	1032	C	N1-C2-N3	-7.14	114.20	119.20
85	5	1473	G	C2-N3-C4	-7.14	108.33	111.90
85	5	1929	G	C6-C5-N7	-7.14	126.12	130.40
1	2	1091	G	C8-N9-C4	-7.14	103.55	106.40
36	1	639	G	N1-C6-O6	7.14	124.18	119.90
36	1	1209	G	OP2-P-O3'	7.14	120.90	105.20
36	1	3197	G	N3-C4-N9	-7.14	121.72	126.00
38	4	92	A	C6-C5-N7	-7.14	127.30	132.30
80	6	467	G	N1-C2-N3	7.14	128.18	123.90
80	6	1732	A	O5'-P-OP1	-7.14	99.28	105.70
85	5	2976	A	C8-N9-C4	-7.14	102.94	105.80
1	2	635	A	C5-N7-C8	-7.14	100.33	103.90
1	2	1769	G	N3-C2-N2	-7.14	114.91	119.90
36	1	206	G	N1-C6-O6	7.14	124.18	119.90
36	1	354	U	N3-C2-O2	-7.14	117.20	122.20
36	1	528	U	N1-C2-N3	-7.14	110.62	114.90
36	1	720	A	C5-C6-N1	7.14	121.27	117.70
36	1	984	G	C6-N1-C2	-7.14	120.82	125.10
36	1	3348	G	C8-N9-C4	7.14	109.25	106.40
38	4	64	U	C4-C5-C6	7.14	123.98	119.70
85	5	2353	G	N3-C4-N9	7.14	130.28	126.00
85	5	2797	C	N3-C2-O2	7.14	126.90	121.90
1	2	1583	A	C6-C5-N7	-7.13	127.31	132.30
36	1	1002	A	N1-C6-N6	7.13	122.88	118.60
36	1	1013	G	C5-N7-C8	-7.13	100.73	104.30
36	1	1191	U	C6-N1-C2	7.13	125.28	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1319	G	C5-N7-C8	-7.13	100.73	104.30
36	1	2314	U	C5-C6-N1	7.13	126.27	122.70
36	1	2511	A	N1-C2-N3	7.13	132.87	129.30
36	1	3144	G	N1-C6-O6	7.13	124.18	119.90
36	1	3286	G	N3-C4-C5	-7.13	125.03	128.60
80	6	1136	U	OP1-P-OP2	-7.13	108.90	119.60
80	6	1261	G	C8-N9-C4	7.13	109.25	106.40
85	5	1170	A	C8-N9-C1'	-7.13	114.86	127.70
85	5	2153	U	N3-C2-O2	7.13	127.19	122.20
85	5	2355	G	C4-C5-C6	7.13	123.08	118.80
85	5	2648	G	N1-C2-N3	7.13	128.18	123.90
37	7	95	A	N9-C4-C5	7.13	108.65	105.80
36	1	408	A	C5-C6-N6	7.13	129.41	123.70
69	O3	29	LEU	CB-CG-CD2	-7.13	98.87	111.00
80	6	103	A	OP2-P-O3'	7.13	120.89	105.20
85	5	660	A	OP1-P-OP2	7.13	130.30	119.60
85	5	664	U	OP2-P-O3'	7.13	120.89	105.20
85	5	718	G	C4-C5-N7	7.13	113.65	110.80
85	5	3308	C	O5'-P-OP1	7.13	119.26	110.70
1	2	267	U	N3-C2-O2	-7.13	117.21	122.20
1	2	700	C	C2-N3-C4	7.13	123.47	119.90
1	2	929	U	C4-C5-C6	7.13	123.98	119.70
36	1	1001	G	N1-C6-O6	-7.13	115.62	119.90
36	1	2273	G	N9-C4-C5	-7.13	102.55	105.40
36	1	2714	G	N7-C8-N9	7.13	116.67	113.10
36	1	2809	C	OP2-P-O3'	7.13	120.89	105.20
36	1	2896	A	N1-C6-N6	7.13	122.88	118.60
36	1	3047	U	C5-C4-O4	7.13	130.18	125.90
36	1	3156	U	N3-C2-O2	7.13	127.19	122.20
36	1	3200	G	C5-C6-N1	-7.13	107.93	111.50
80	6	420	A	N9-C4-C5	7.13	108.65	105.80
85	5	7	C	N1-C2-O2	-7.13	114.62	118.90
85	5	105	C	C6-N1-C2	7.13	123.15	120.30
85	5	415	G	OP1-P-OP2	-7.13	108.90	119.60
85	5	1154	A	N1-C6-N6	-7.13	114.32	118.60
85	5	2843	U	C5-C6-N1	-7.13	119.13	122.70
85	5	3198	U	N1-C2-N3	-7.13	110.62	114.90
85	5	3221	C	C4-C5-C6	7.13	120.97	117.40
36	1	194	U	C5-C4-O4	-7.13	121.62	125.90
36	1	1835	A	N1-C6-N6	-7.13	114.32	118.60
36	1	1870	C	N3-C4-C5	-7.13	119.05	121.90
36	1	2232	A	OP1-P-OP2	7.13	130.30	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3047	U	O5'-P-OP1	-7.13	99.28	105.70
85	5	982	C	C5-C4-N4	-7.13	115.21	120.20
1	2	103	A	N1-C6-N6	7.13	122.88	118.60
36	1	107	A	C5-C6-N6	-7.13	118.00	123.70
36	1	346	C	C6-N1-C2	7.13	123.15	120.30
36	1	776	U	C5-C4-O4	7.13	130.18	125.90
38	4	34	U	C2-N3-C4	-7.13	122.72	127.00
85	5	845	G	C5-C6-O6	-7.13	124.32	128.60
85	5	1100	U	N1-C2-N3	7.13	119.18	114.90
85	5	1604	G	OP2-P-O3'	7.13	120.88	105.20
85	5	2161	G	C2-N3-C4	7.13	115.46	111.90
85	5	2655	U	N1-C2-O2	7.13	127.79	122.80
85	5	2784	G	C5-C6-O6	7.13	132.88	128.60
85	5	3303	G	C5-C6-N1	7.13	115.06	111.50
85	5	3307	A	C4-C5-C6	7.13	120.56	117.00
37	7	116	C	C4-C5-C6	-7.13	113.84	117.40
1	2	404	G	N7-C8-N9	-7.13	109.54	113.10
1	2	1464	C	C6-N1-C2	-7.13	117.45	120.30
36	1	89	A	N3-C4-C5	-7.13	121.81	126.80
36	1	156	G	C6-N1-C2	-7.13	120.82	125.10
36	1	241	G	N7-C8-N9	-7.13	109.54	113.10
36	1	680	G	N7-C8-N9	-7.13	109.54	113.10
36	1	1682	U	O5'-P-OP1	-7.13	99.28	105.70
36	1	2512	C	OP1-P-OP2	-7.13	108.91	119.60
36	1	3004	C	OP1-P-O3'	7.13	120.88	105.20
36	1	3140	G	N3-C4-C5	-7.13	125.04	128.60
36	1	3230	G	C5-N7-C8	-7.13	100.74	104.30
85	5	402	A	C2-N3-C4	7.13	114.16	110.60
85	5	2279	A	C6-N1-C2	-7.13	114.32	118.60
85	5	2995	A	N3-C4-C5	-7.13	121.81	126.80
85	5	3179	U	C4-C5-C6	7.13	123.98	119.70
1	2	356	G	C5-N7-C8	-7.12	100.74	104.30
1	2	1764	A	N1-C2-N3	7.12	132.86	129.30
36	1	2137	U	C2-N1-C1'	7.12	126.25	117.70
36	1	2272	G	OP1-P-O3'	7.12	120.88	105.20
36	1	2374	C	O5'-P-OP2	-7.12	99.29	105.70
85	5	1771	C	C2-N3-C4	-7.12	116.34	119.90
36	1	374	A	C5-C6-N6	7.12	129.40	123.70
36	1	408	A	N3-C4-C5	-7.12	121.81	126.80
38	4	45	C	O5'-P-OP2	-7.12	99.29	105.70
85	5	726	G	C5-C6-O6	-7.12	124.33	128.60
85	5	2631	U	OP1-P-O3'	7.12	120.87	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2938	G	N1-C6-O6	-7.12	115.63	119.90
85	5	3269	U	C5-C6-N1	-7.12	119.14	122.70
37	7	76	A	N1-C6-N6	7.12	122.87	118.60
36	1	613	G	C5-C6-N1	-7.12	107.94	111.50
36	1	756	U	C4-C5-C6	7.12	123.97	119.70
36	1	844	G	C2-N3-C4	-7.12	108.34	111.90
36	1	1400	G	C4-C5-C6	7.12	123.07	118.80
36	1	1702	U	C5-C6-N1	7.12	126.26	122.70
36	1	2157	G	N3-C4-N9	7.12	130.27	126.00
36	1	2199	G	C5-C6-N1	-7.12	107.94	111.50
36	1	2898	G	C4-C5-C6	7.12	123.07	118.80
36	1	3239	G	N3-C2-N2	-7.12	114.91	119.90
85	5	1178	G	N3-C4-N9	7.12	130.27	126.00
85	5	1758	G	N3-C4-C5	7.12	132.16	128.60
85	5	2324	A	C4-C5-N7	7.12	114.26	110.70
85	5	2432	A	N1-C2-N3	7.12	132.86	129.30
85	5	3123	A	N1-C2-N3	7.12	132.86	129.30
85	5	3140	G	C5-C6-O6	7.12	132.87	128.60
36	1	124	U	C6-N1-C2	-7.12	116.73	121.00
36	1	1350	A	C2-N3-C4	7.12	114.16	110.60
36	1	3338	C	OP2-P-O3'	7.12	120.86	105.20
85	5	317	A	OP1-P-OP2	7.12	130.28	119.60
85	5	722	G	C5-C6-N1	-7.12	107.94	111.50
85	5	905	U	N3-C4-C5	-7.12	110.33	114.60
85	5	2590	A	C6-C5-N7	-7.12	127.32	132.30
85	5	2981	U	C2-N1-C1'	7.12	126.24	117.70
1	2	1091	G	N1-C2-N3	7.12	128.17	123.90
36	1	511	G	N1-C2-N3	7.12	128.17	123.90
36	1	848	A	N7-C8-N9	-7.12	110.24	113.80
36	1	1547	G	C5-N7-C8	7.12	107.86	104.30
36	1	1698	C	C4-C5-C6	7.12	120.96	117.40
36	1	1945	A	N7-C8-N9	7.12	117.36	113.80
36	1	3030	G	C4-C5-C6	7.12	123.07	118.80
39	L2	37	ARG	NE-CZ-NH2	-7.12	116.74	120.30
80	6	190	C	N1-C2-N3	-7.12	114.22	119.20
85	5	304	G	N3-C4-C5	-7.12	125.04	128.60
85	5	2631	U	N1-C2-N3	7.12	119.17	114.90
85	5	2671	A	C2-N3-C4	-7.12	107.04	110.60
85	5	2687	G	O5'-P-OP1	7.12	119.24	110.70
85	5	3288	G	O5'-P-OP2	-7.12	99.29	105.70
1	2	1521	U	N1-C2-N3	7.12	119.17	114.90
36	1	2240	G	C4-C5-N7	7.12	113.65	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2697	A	OP1-P-OP2	7.12	130.28	119.60
36	1	3316	A	C2-N3-C4	-7.12	107.04	110.60
80	6	760	A	C2-N3-C4	-7.12	107.04	110.60
85	5	1313	G	N3-C2-N2	-7.12	114.92	119.90
85	5	2602	G	N1-C2-N2	-7.12	109.80	116.20
1	2	1007	U	OP2-P-O3'	7.12	120.86	105.20
1	2	1417	U	C6-N1-C2	-7.12	116.73	121.00
1	2	1571	G	C8-N9-C4	7.12	109.25	106.40
36	1	89	A	C6-N1-C2	-7.12	114.33	118.60
36	1	1431	G	OP1-P-OP2	7.12	130.27	119.60
36	1	1543	G	N1-C6-O6	7.12	124.17	119.90
36	1	2932	U	C5-C4-O4	7.12	130.17	125.90
37	3	116	C	C5-C4-N4	-7.12	115.22	120.20
80	6	1745	G	N1-C2-N3	7.12	128.17	123.90
85	5	432	G	C4-C5-N7	-7.12	107.95	110.80
85	5	718	G	C4-N9-C1'	7.12	135.75	126.50
85	5	907	G	N3-C4-N9	7.12	130.27	126.00
85	5	1009	A	N7-C8-N9	7.12	117.36	113.80
85	5	1107	C	C2-N3-C4	-7.12	116.34	119.90
85	5	2518	C	C6-N1-C2	-7.12	117.45	120.30
85	5	3076	C	C2-N3-C4	-7.12	116.34	119.90
1	2	1035	U	N1-C2-O2	7.11	127.78	122.80
36	1	268	A	C6-N1-C2	-7.11	114.33	118.60
36	1	2097	U	C5-C6-N1	7.11	126.26	122.70
36	1	2414	G	O5'-P-OP2	-7.11	99.30	105.70
80	6	1488	G	C5-C6-N1	7.11	115.06	111.50
85	5	574	U	C2-N3-C4	7.11	131.27	127.00
85	5	695	C	OP1-P-OP2	-7.11	108.93	119.60
85	5	1141	C	C2-N3-C4	-7.11	116.34	119.90
85	5	2721	A	N1-C6-N6	-7.11	114.33	118.60
36	1	112	U	O5'-P-OP2	7.11	119.23	110.70
36	1	719	U	N1-C2-N3	-7.11	110.63	114.90
36	1	1400	G	C2-N3-C4	-7.11	108.34	111.90
36	1	2956	A	C4-C5-C6	7.11	120.56	117.00
37	3	103	A	C6-N1-C2	-7.11	114.33	118.60
80	6	152	U	N1-C2-O2	7.11	127.78	122.80
85	5	1117	G	C5-C6-N1	7.11	115.06	111.50
85	5	1152	G	C5-C6-O6	-7.11	124.33	128.60
85	5	1215	U	N3-C2-O2	7.11	127.18	122.20
85	5	2663	G	C4-C5-N7	7.11	113.64	110.80
85	5	3300	U	OP1-P-OP2	7.11	130.27	119.60
1	2	372	G	C4-C5-N7	-7.11	107.96	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	398	A	C8-N9-C4	7.11	108.64	105.80
36	1	2376	G	OP1-P-OP2	7.11	130.27	119.60
85	5	402	A	C5-N7-C8	7.11	107.45	103.90
85	5	703	G	C6-C5-N7	-7.11	126.13	130.40
85	5	1842	A	C5-N7-C8	-7.11	100.34	103.90
85	5	1851	G	N3-C4-C5	7.11	132.16	128.60
85	5	2874	G	C8-N9-C4	-7.11	103.56	106.40
85	5	3372	A	C6-N1-C2	-7.11	114.33	118.60
1	2	826	U	C5-C6-N1	7.11	126.25	122.70
36	1	1672	U	C2-N3-C4	7.11	131.26	127.00
38	4	95	G	N9-C4-C5	-7.11	102.56	105.40
80	6	1199	G	C5-C6-O6	-7.11	124.33	128.60
85	5	94	G	N3-C4-C5	7.11	132.16	128.60
85	5	179	C	N3-C2-O2	-7.11	116.92	121.90
85	5	1402	C	N1-C2-O2	-7.11	114.63	118.90
85	5	1891	A	N9-C4-C5	7.11	108.64	105.80
85	5	2123	G	O4'-C1'-N9	-7.11	102.51	108.20
36	1	606	C	C5-C6-N1	-7.11	117.45	121.00
36	1	1059	G	N3-C4-C5	7.11	132.15	128.60
36	1	1129	A	C5-C6-N1	7.11	121.25	117.70
36	1	1412	G	N3-C2-N2	-7.11	114.92	119.90
36	1	1466	G	N1-C2-N3	7.11	128.16	123.90
36	1	1776	G	C4-C5-N7	7.11	113.64	110.80
36	1	1881	A	N9-C4-C5	-7.11	102.96	105.80
38	4	95	G	O5'-P-OP2	-7.11	99.30	105.70
80	6	1030	A	O4'-C1'-N9	-7.11	102.51	108.20
85	5	933	A	N7-C8-N9	-7.11	110.25	113.80
85	5	1143	A	N9-C4-C5	-7.11	102.96	105.80
85	5	1915	A	OP2-P-O3'	7.11	120.83	105.20
85	5	2231	C	O4'-C1'-N1	7.11	113.89	108.20
85	5	2751	G	C8-N9-C1'	7.11	136.24	127.00
85	5	2777	G	C4-C5-C6	7.11	123.06	118.80
85	5	2959	C	N3-C2-O2	-7.11	116.92	121.90
85	5	2967	A	C2-N3-C4	7.11	114.15	110.60
36	1	125	C	C6-N1-C2	7.11	123.14	120.30
36	1	935	U	C6-N1-C2	-7.11	116.74	121.00
36	1	956	U	N1-C2-N3	7.11	119.16	114.90
36	1	2296	A	C8-N9-C4	7.11	108.64	105.80
37	3	46	A	N1-C6-N6	-7.11	114.34	118.60
80	6	21	U	N3-C4-O4	7.11	124.37	119.40
82	c7	87	GLU	O-C-N	7.11	134.07	122.70
85	5	49	A	C6-N1-C2	-7.11	114.34	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3012	A	OP1-P-OP2	-7.11	108.94	119.60
85	5	3126	C	N3-C4-C5	7.11	124.74	121.90
37	7	76	A	N9-C4-C5	-7.11	102.96	105.80
36	1	46	U	O5'-P-OP2	-7.10	99.31	105.70
36	1	755	A	C2-N3-C4	7.10	114.15	110.60
36	1	1297	C	N1-C2-N3	7.10	124.17	119.20
36	1	1640	G	C6-N1-C2	-7.10	120.84	125.10
36	1	2827	U	N3-C2-O2	-7.10	117.23	122.20
80	6	157	A	C5-C6-N1	7.10	121.25	117.70
85	5	606	C	OP1-P-OP2	7.10	130.25	119.60
85	5	878	G	C6-N1-C2	-7.10	120.84	125.10
85	5	2528	G	C8-N9-C4	-7.10	103.56	106.40
1	2	34	G	N1-C6-O6	-7.10	115.64	119.90
1	2	54	C	N3-C2-O2	-7.10	116.93	121.90
1	2	1107	A	C6-N1-C2	7.10	122.86	118.60
36	1	1704	A	N1-C6-N6	-7.10	114.34	118.60
36	1	2241	U	O5'-P-OP1	-7.10	99.31	105.70
36	1	2591	A	C5-N7-C8	-7.10	100.35	103.90
36	1	2948	C	N3-C4-C5	7.10	124.74	121.90
38	4	79	A	N7-C8-N9	-7.10	110.25	113.80
80	6	861	U	C5-C4-O4	-7.10	121.64	125.90
80	6	1735	U	C5-C6-N1	-7.10	119.15	122.70
85	5	154	U	C2-N3-C4	7.10	131.26	127.00
85	5	1162	U	N3-C4-C5	-7.10	110.34	114.60
85	5	1862	U	N1-C1'-C2'	7.10	123.23	114.00
85	5	2135	U	N1-C2-N3	7.10	119.16	114.90
85	5	3183	A	O5'-P-OP2	-7.10	99.31	105.70
65	n9	13	THR	CA-CB-CG2	-7.10	102.46	112.40
41	L4	179	LEU	CB-CG-CD2	-7.10	98.93	111.00
85	5	129	U	C5-C6-N1	7.10	126.25	122.70
85	5	534	U	OP1-P-OP2	7.10	130.25	119.60
85	5	679	U	N3-C4-C5	-7.10	110.34	114.60
85	5	2205	U	O4'-C1'-N1	7.10	113.88	108.20
85	5	2610	G	O5'-P-OP1	7.10	119.22	110.70
85	5	2715	A	N1-C2-N3	7.10	132.85	129.30
1	2	1076	A	C2-N3-C4	-7.10	107.05	110.60
36	1	269	G	N3-C4-N9	-7.10	121.74	126.00
36	1	664	U	OP2-P-O3'	7.10	120.82	105.20
36	1	1675	G	N9-C4-C5	-7.10	102.56	105.40
36	1	2596	U	N3-C4-O4	7.10	124.37	119.40
36	1	2818	U	OP2-P-O3'	7.10	120.82	105.20
36	1	3150	A	C5-N7-C8	-7.10	100.35	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3182	G	C8-N9-C4	7.10	109.24	106.40
80	6	373	G	O4'-C1'-N9	-7.10	102.52	108.20
80	6	816	G	C5-C6-O6	-7.10	124.34	128.60
80	6	1410	A	C5-C6-N1	-7.10	114.15	117.70
85	5	382	U	O5'-P-OP1	7.10	119.22	110.70
85	5	1775	G	N1-C2-N3	-7.10	119.64	123.90
85	5	2662	G	OP1-P-O3'	-7.10	89.58	105.20
36	1	39	A	OP2-P-O3'	7.10	120.81	105.20
36	1	92	G	N3-C2-N2	7.10	124.87	119.90
36	1	232	G	N1-C2-N2	-7.10	109.81	116.20
36	1	1355	A	C5-N7-C8	7.10	107.45	103.90
36	1	1708	C	C4-C5-C6	7.10	120.95	117.40
36	1	2285	C	C5-C4-N4	7.10	125.17	120.20
36	1	2319	U	N1-C2-N3	7.10	119.16	114.90
36	1	2403	G	N7-C8-N9	7.10	116.65	113.10
36	1	2422	C	C6-N1-C2	-7.10	117.46	120.30
36	1	2443	A	N9-C4-C5	-7.10	102.96	105.80
36	1	2516	U	N3-C2-O2	7.10	127.17	122.20
36	1	2692	A	O5'-P-OP2	7.10	119.22	110.70
36	1	2700	G	C5-C6-O6	-7.10	124.34	128.60
36	1	2708	C	N1-C2-O2	7.10	123.16	118.90
85	5	59	G	C8-N9-C4	-7.10	103.56	106.40
85	5	303	G	OP1-P-O3'	7.10	120.81	105.20
85	5	884	A	N9-C4-C5	-7.10	102.96	105.80
85	5	907	G	C8-N9-C4	7.10	109.24	106.40
85	5	1106	G	C5-C6-O6	-7.10	124.34	128.60
85	5	1605	A	C5-C6-N1	7.10	121.25	117.70
85	5	1640	G	C6-N1-C2	-7.10	120.84	125.10
85	5	2185	G	C4-C5-N7	-7.10	107.96	110.80
85	5	2700	G	O4'-C1'-N9	-7.10	102.52	108.20
85	5	2864	A	C6-N1-C2	-7.10	114.34	118.60
85	5	2991	A	N1-C2-N3	7.10	132.85	129.30
1	2	426	G	N1-C2-N3	7.10	128.16	123.90
1	2	553	G	C5-N7-C8	-7.10	100.75	104.30
36	1	3372	A	N1-C6-N6	-7.10	114.34	118.60
85	5	364	G	C5-N7-C8	-7.10	100.75	104.30
85	5	1016	C	C5-C6-N1	7.10	124.55	121.00
85	5	3028	G	OP1-P-O3'	7.10	120.81	105.20
1	2	334	G	O5'-P-OP2	-7.09	99.31	105.70
36	1	373	A	C6-N1-C2	-7.09	114.34	118.60
36	1	423	A	N7-C8-N9	7.09	117.35	113.80
36	1	804	C	N1-C2-N3	-7.09	114.23	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1582	C	N3-C2-O2	-7.09	116.93	121.90
36	1	3324	C	C2-N3-C4	-7.09	116.35	119.90
38	4	144	G	C6-C5-N7	7.09	134.66	130.40
85	5	1207	G	N1-C6-O6	-7.09	115.64	119.90
38	8	25	G	C6-N1-C2	-7.09	120.84	125.10
1	2	1567	G	N1-C2-N2	-7.09	109.82	116.20
36	1	376	G	N3-C4-C5	7.09	132.15	128.60
36	1	3186	A	N1-C6-N6	-7.09	114.34	118.60
36	1	3237	U	N3-C2-O2	-7.09	117.23	122.20
80	6	104	A	C8-N9-C4	-7.09	102.96	105.80
85	5	304	G	C4-C5-C6	7.09	123.06	118.80
85	5	1126	G	N3-C4-N9	-7.09	121.74	126.00
1	2	1255	U	OP1-P-OP2	-7.09	108.96	119.60
36	1	1263	A	C2-N3-C4	7.09	114.15	110.60
36	1	1447	G	C5-C6-O6	7.09	132.85	128.60
36	1	1525	G	C6-N1-C2	-7.09	120.84	125.10
36	1	1730	G	C4-C5-N7	-7.09	107.96	110.80
36	1	2417	U	C2-N3-C4	-7.09	122.75	127.00
36	1	3134	A	C8-N9-C4	7.09	108.64	105.80
36	1	3230	G	C4-C5-N7	7.09	113.64	110.80
38	4	139	U	C4-C5-C6	7.09	123.95	119.70
42	L5	35	ARG	NE-CZ-NH2	-7.09	116.75	120.30
80	6	55	A	N7-C8-N9	7.09	117.34	113.80
80	6	204	G	C8-N9-C1'	7.09	136.22	127.00
80	6	307	G	OP2-P-O3'	7.09	120.80	105.20
80	6	404	G	N1-C6-O6	-7.09	115.64	119.90
85	5	207	U	N3-C4-C5	7.09	118.85	114.60
85	5	828	A	O5'-P-OP2	-7.09	99.32	105.70
85	5	1348	U	N1-C2-N3	-7.09	110.64	114.90
85	5	1492	G	C5-N7-C8	-7.09	100.75	104.30
85	5	1788	C	C2-N1-C1'	7.09	126.60	118.80
85	5	1848	G	C5-C6-N1	7.09	115.05	111.50
85	5	2637	A	N7-C8-N9	7.09	117.35	113.80
1	2	1311	G	N9-C4-C5	-7.09	102.56	105.40
36	1	1226	G	C5-C6-N1	-7.09	107.95	111.50
36	1	1269	U	C2-N1-C1'	7.09	126.21	117.70
36	1	1348	U	C5-C4-O4	-7.09	121.65	125.90
36	1	1727	G	N7-C8-N9	7.09	116.64	113.10
40	L3	327	CYS	CA-CB-SG	-7.09	101.24	114.00
42	L5	108	ARG	NE-CZ-NH2	-7.09	116.75	120.30
42	L5	108	ARG	NE-CZ-NH1	7.09	123.84	120.30
85	5	9	U	N1-C2-O2	-7.09	117.84	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	519	A	C6-C5-N7	-7.09	127.34	132.30
85	5	841	A	N1-C6-N6	7.09	122.85	118.60
85	5	951	A	C4-C5-C6	7.09	120.55	117.00
85	5	1326	A	C8-N9-C4	-7.09	102.96	105.80
36	1	3016	A	N3-C4-C5	7.09	131.76	126.80
37	3	97	A	C6-N1-C2	-7.09	114.35	118.60
38	4	101	U	C4-C5-C6	7.09	123.95	119.70
85	5	703	G	C6-N1-C2	-7.09	120.85	125.10
85	5	1744	G	C5-C6-O6	-7.09	124.35	128.60
85	5	2777	G	C5-C6-N1	-7.09	107.96	111.50
38	8	80	A	C2-N3-C4	7.09	114.14	110.60
1	2	338	C	C5-C4-N4	7.09	125.16	120.20
36	1	727	G	C4-C5-N7	7.09	113.63	110.80
36	1	968	G	N1-C2-N2	-7.09	109.82	116.20
36	1	1350	A	C5-C6-N6	-7.09	118.03	123.70
36	1	1788	C	C2-N1-C1'	7.09	126.59	118.80
80	6	562	G	C5-C6-N1	-7.09	107.96	111.50
80	6	688	G	C8-N9-C4	-7.09	103.56	106.40
80	6	960	U	C5-C6-N1	7.09	126.24	122.70
85	5	411	U	N3-C4-C5	-7.09	110.35	114.60
85	5	1255	C	C6-N1-C2	-7.09	117.47	120.30
85	5	2549	G	C6-N1-C2	7.09	129.35	125.10
85	5	2627	C	C6-N1-C2	-7.09	117.47	120.30
85	5	2680	A	N9-C4-C5	7.09	108.64	105.80
37	7	121	U	C6-N1-C2	7.09	125.25	121.00
1	2	272	U	N3-C2-O2	-7.08	117.24	122.20
80	6	1586	A	N9-C4-C5	-7.08	102.97	105.80
85	5	807	A	N1-C6-N6	7.08	122.85	118.60
85	5	1407	A	N7-C8-N9	7.08	117.34	113.80
85	5	3059	G	N1-C2-N3	7.08	128.15	123.90
1	2	51	A	N9-C4-C5	-7.08	102.97	105.80
1	2	587	C	C5-C6-N1	7.08	124.54	121.00
1	2	808	U	N3-C4-O4	7.08	124.36	119.40
1	2	1062	U	C5-C6-N1	7.08	126.24	122.70
1	2	1519	G	N3-C4-N9	7.08	130.25	126.00
36	1	739	G	C4-C5-N7	7.08	113.63	110.80
36	1	883	A	N1-C6-N6	-7.08	114.35	118.60
36	1	1809	A	N7-C8-N9	-7.08	110.26	113.80
36	1	2675	C	C6-N1-C1'	-7.08	112.30	120.80
36	1	2982	A	N1-C6-N6	-7.08	114.35	118.60
36	1	3191	G	O5'-P-OP1	7.08	119.20	110.70
38	4	32	C	O4'-C1'-N1	7.08	113.87	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	124	G	OP1-P-O3'	7.08	120.78	105.20
80	6	1514	U	N1-C2-O2	7.08	127.76	122.80
80	6	1768	G	C8-N9-C4	7.08	109.23	106.40
85	5	1856	C	N3-C4-C5	7.08	124.73	121.90
85	5	2354	C	C5-C6-N1	7.08	124.54	121.00
1	2	926	C	N1-C2-O2	7.08	123.15	118.90
36	1	1140	G	C4-C5-C6	7.08	123.05	118.80
36	1	1807	G	C6-C5-N7	-7.08	126.15	130.40
36	1	3056	U	C4-C5-C6	7.08	123.95	119.70
38	4	52	A	C5-N7-C8	7.08	107.44	103.90
80	6	396	G	O5'-P-OP2	-7.08	99.33	105.70
85	5	616	G	N3-C2-N2	-7.08	114.94	119.90
85	5	1757	A	C2-N3-C4	7.08	114.14	110.60
85	5	2326	A	C5-C6-N1	-7.08	114.16	117.70
38	8	25	G	C8-N9-C4	-7.08	103.57	106.40
80	6	1200	G	O5'-P-OP2	-7.08	99.33	105.70
85	5	1393	A	N3-C4-C5	-7.08	121.84	126.80
85	5	1941	C	N1-C2-O2	-7.08	114.65	118.90
38	8	2	A	OP2-P-O3'	7.08	120.78	105.20
1	2	612	U	N1-C2-N3	-7.08	110.65	114.90
36	1	83	U	C5-C6-N1	-7.08	119.16	122.70
36	1	1057	A	C5-C6-N6	7.08	129.36	123.70
36	1	2704	A	N9-C4-C5	7.08	108.63	105.80
36	1	3025	C	N1-C2-O2	7.08	123.15	118.90
80	6	466	U	C4-C5-C6	7.08	123.95	119.70
80	6	1582	U	C5-C6-N1	-7.08	119.16	122.70
85	5	141	C	C5-C6-N1	7.08	124.54	121.00
85	5	359	U	C5-C4-O4	-7.08	121.65	125.90
85	5	937	G	O5'-P-OP1	-7.08	99.33	105.70
85	5	1506	A	N7-C8-N9	7.08	117.34	113.80
85	5	2307	G	C8-N9-C4	7.08	109.23	106.40
85	5	2416	U	N1-C2-O2	-7.08	117.84	122.80
85	5	2639	G	C6-C5-N7	-7.08	126.15	130.40
85	5	2841	G	OP1-P-OP2	7.08	130.22	119.60
85	5	3128	G	N9-C4-C5	7.08	108.23	105.40
38	8	89	A	C4-C5-N7	-7.08	107.16	110.70
1	2	888	A	C8-N9-C4	-7.08	102.97	105.80
36	1	146	U	N3-C2-O2	7.08	127.15	122.20
36	1	2988	C	N3-C2-O2	7.08	126.85	121.90
85	5	1105	A	N1-C6-N6	7.08	122.85	118.60
85	5	1107	C	N3-C4-N4	7.08	122.95	118.00
1	2	1291	G	C2-N3-C4	-7.08	108.36	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	818	C	OP1-P-OP2	-7.08	108.99	119.60
36	1	1323	G	C5-N7-C8	7.08	107.84	104.30
36	1	1592	G	N1-C2-N3	7.08	128.15	123.90
36	1	1719	G	N1-C6-O6	7.08	124.15	119.90
36	1	1769	G	C4-C5-N7	7.08	113.63	110.80
38	4	17	A	C4-C5-C6	7.08	120.54	117.00
38	4	113	U	N3-C4-O4	-7.08	114.45	119.40
85	5	497	C	N3-C4-C5	-7.08	119.07	121.90
85	5	1644	C	N1-C2-O2	-7.08	114.66	118.90
85	5	1834	U	N3-C2-O2	-7.08	117.25	122.20
85	5	1949	G	C5-C6-O6	-7.08	124.36	128.60
85	5	2588	U	N1-C2-N3	7.08	119.14	114.90
1	2	1015	G	C6-C5-N7	-7.07	126.16	130.40
36	1	99	A	C5-C6-N6	-7.07	118.04	123.70
36	1	392	G	C8-N9-C4	-7.07	103.57	106.40
36	1	833	G	C2-N3-C4	-7.07	108.36	111.90
36	1	1443	G	N7-C8-N9	7.07	116.64	113.10
36	1	1599	G	C4-C5-N7	7.07	113.63	110.80
36	1	2189	U	OP2-P-O3'	7.07	120.76	105.20
80	6	1627	U	N1-C2-N3	7.07	119.14	114.90
80	6	1733	C	C5-C4-N4	-7.07	115.25	120.20
85	5	843	A	C4-C5-N7	7.07	114.24	110.70
85	5	1174	G	C4-C5-N7	7.07	113.63	110.80
85	5	1827	C	N3-C2-O2	7.07	126.85	121.90
85	5	1837	U	O5'-P-OP1	-7.07	99.33	105.70
54	m8	178	ARG	NE-CZ-NH2	-7.07	116.76	120.30
1	2	206	A	C8-N9-C4	7.07	108.63	105.80
1	2	606	A	C4-C5-N7	7.07	114.24	110.70
36	1	790	U	N3-C2-O2	-7.07	117.25	122.20
36	1	828	A	N7-C8-N9	7.07	117.34	113.80
1	2	957	A	N9-C4-C5	-7.07	102.97	105.80
36	1	271	C	C5-C6-N1	-7.07	117.47	121.00
36	1	991	G	N1-C6-O6	-7.07	115.66	119.90
36	1	1126	G	C4-C5-C6	7.07	123.04	118.80
36	1	1901	A	C6-N1-C2	-7.07	114.36	118.60
36	1	2235	C	O5'-P-OP2	-7.07	99.34	105.70
36	1	2701	U	O5'-P-OP1	-7.07	99.34	105.70
36	1	2993	G	C5-C6-N1	7.07	115.04	111.50
36	1	3282	U	N3-C4-O4	7.07	124.35	119.40
38	4	68	G	N3-C4-C5	7.07	132.13	128.60
38	4	138	A	C5-N7-C8	-7.07	100.36	103.90
80	6	340	U	N1-C2-N3	7.07	119.14	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1304	G	O5'-P-OP2	-7.07	99.34	105.70
85	5	404	G	C2-N3-C4	7.07	115.44	111.90
85	5	594	U	C5-C6-N1	7.07	126.23	122.70
85	5	610	G	C8-N9-C4	-7.07	103.57	106.40
85	5	1860	G	C8-N9-C4	7.07	109.23	106.40
85	5	2656	A	N1-C6-N6	7.07	122.84	118.60
85	5	3124	G	N9-C4-C5	7.07	108.23	105.40
85	5	3131	U	N1-C2-O2	7.07	127.75	122.80
1	2	860	G	N1-C6-O6	-7.07	115.66	119.90
1	2	1258	A	N1-C2-N3	7.07	132.84	129.30
36	1	3250	U	C6-N1-C2	7.07	125.24	121.00
80	6	1368	G	N7-C8-N9	-7.07	109.56	113.10
85	5	2218	G	N1-C2-N2	-7.07	109.84	116.20
1	2	1500	U	C6-N1-C2	-7.07	116.76	121.00
36	1	217	U	O5'-P-OP1	-7.07	99.34	105.70
36	1	334	A	C5-N7-C8	-7.07	100.37	103.90
36	1	724	U	N3-C4-C5	7.07	118.84	114.60
36	1	1202	A	N7-C8-N9	7.07	117.33	113.80
36	1	1336	U	OP1-P-O3'	7.07	120.75	105.20
36	1	2374	C	C2-N1-C1'	7.07	126.57	118.80
36	1	2640	A	N1-C2-N3	7.07	132.83	129.30
36	1	2967	A	N9-C4-C5	7.07	108.63	105.80
80	6	143	G	N1-C6-O6	7.07	124.14	119.90
80	6	969	C	C6-N1-C2	7.07	123.13	120.30
80	6	1726	G	N9-C4-C5	-7.07	102.57	105.40
85	5	30	G	O5'-P-OP2	7.07	119.18	110.70
85	5	609	G	C8-N9-C4	7.07	109.23	106.40
85	5	654	C	N3-C4-N4	7.07	122.95	118.00
85	5	1343	A	C5-N7-C8	-7.07	100.37	103.90
85	5	2796	G	O5'-P-OP2	-7.07	99.34	105.70
85	5	2941	A	N1-C2-N3	7.07	132.83	129.30
38	8	117	C	C4-C5-C6	7.07	120.93	117.40
1	2	23	G	N1-C2-N3	7.07	128.14	123.90
1	2	291	G	C5-C6-N1	7.07	115.03	111.50
36	1	2259	A	C8-N9-C4	-7.07	102.97	105.80
36	1	2590	A	C6-N1-C2	-7.07	114.36	118.60
36	1	2980	U	C6-N1-C2	-7.07	116.76	121.00
37	3	26	C	N3-C4-C5	7.07	124.73	121.90
80	6	128	U	C2-N3-C4	-7.07	122.76	127.00
80	6	396	G	C4-C5-C6	7.07	123.04	118.80
80	6	1008	G	OP1-P-OP2	-7.07	109.00	119.60
85	5	323	A	OP1-P-OP2	7.07	130.20	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1200	A	C5-C6-N1	-7.07	114.17	117.70
85	5	1390	A	C6-N1-C2	-7.07	114.36	118.60
85	5	1439	U	O5'-P-OP2	-7.07	99.34	105.70
85	5	1907	C	N1-C2-N3	7.07	124.15	119.20
85	5	2945	G	C2-N3-C4	-7.07	108.37	111.90
85	5	3296	A	C2-N3-C4	-7.07	107.07	110.60
70	o4	88	ARG	NE-CZ-NH2	-7.07	116.77	120.30
1	2	559	C	N3-C2-O2	-7.06	116.95	121.90
1	2	847	U	N1-C2-N3	7.06	119.14	114.90
36	1	203	G	C5-C6-O6	-7.06	124.36	128.60
36	1	874	U	C5-C6-N1	-7.06	119.17	122.70
36	1	2178	A	N1-C6-N6	7.06	122.84	118.60
80	6	322	G	N3-C4-C5	7.06	132.13	128.60
80	6	366	A	N7-C8-N9	-7.06	110.27	113.80
85	5	258	G	C8-N9-C4	-7.06	103.57	106.40
85	5	624	G	N9-C4-C5	-7.06	102.58	105.40
85	5	2169	G	C5-C6-N1	7.06	115.03	111.50
85	5	2758	A	C5-C6-N1	7.06	121.23	117.70
85	5	3015	G	C8-N9-C4	7.06	109.22	106.40
1	2	555	A	C5-C6-N1	7.06	121.23	117.70
1	2	1665	U	C5-C6-N1	-7.06	119.17	122.70
36	1	926	A	C2-N3-C4	-7.06	107.07	110.60
36	1	1311	G	C4-C5-C6	7.06	123.04	118.80
36	1	1491	A	N1-C6-N6	7.06	122.84	118.60
36	1	2360	C	N1-C2-N3	7.06	124.14	119.20
36	1	2615	G	N1-C6-O6	-7.06	115.66	119.90
36	1	2757	U	C6-N1-C2	-7.06	116.76	121.00
36	1	3015	G	C6-C5-N7	-7.06	126.16	130.40
38	4	47	C	C6-N1-C2	-7.06	117.47	120.30
38	4	133	G	N1-C6-O6	7.06	124.14	119.90
80	6	251	A	C8-N9-C4	7.06	108.62	105.80
85	5	50	U	O5'-P-OP1	-7.06	99.34	105.70
85	5	53	G	N1-C2-N2	-7.06	109.84	116.20
85	5	292	U	N3-C2-O2	7.06	127.14	122.20
79	q3	60	CYS	CA-CB-SG	7.06	126.71	114.00
36	1	580	C	N3-C4-N4	7.06	122.94	118.00
36	1	2299	A	N9-C4-C5	7.06	108.62	105.80
36	1	2343	C	N3-C4-C5	7.06	124.72	121.90
36	1	2620	G	C8-N9-C4	7.06	109.22	106.40
36	1	3095	U	C6-N1-C2	-7.06	116.76	121.00
85	5	1083	G	C4-C5-N7	-7.06	107.98	110.80
85	5	2397	A	C4-C5-C6	-7.06	113.47	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1073	C	OP1-P-OP2	-7.06	109.01	119.60
36	1	298	U	C2-N3-C4	-7.06	122.76	127.00
36	1	695	C	C5-C4-N4	-7.06	115.26	120.20
36	1	702	C	N1-C2-N3	7.06	124.14	119.20
36	1	1064	A	OP1-P-OP2	7.06	130.19	119.60
36	1	1321	G	OP1-P-O3'	7.06	120.73	105.20
36	1	1442	U	N3-C4-O4	7.06	124.34	119.40
36	1	1860	G	C8-N9-C4	-7.06	103.58	106.40
36	1	2187	G	C5-C6-N1	-7.06	107.97	111.50
80	6	236	A	N1-C6-N6	7.06	122.84	118.60
85	5	222	A	C5-C6-N1	7.06	121.23	117.70
85	5	750	G	C8-N9-C4	-7.06	103.58	106.40
85	5	1888	U	OP1-P-OP2	-7.06	109.01	119.60
85	5	2641	U	N3-C4-C5	-7.06	110.36	114.60
1	2	40	A	C5-N7-C8	7.06	107.43	103.90
1	2	1068	G	C8-N9-C4	7.06	109.22	106.40
36	1	146	U	N1-C2-O2	-7.06	117.86	122.80
36	1	2625	C	O5'-P-OP2	-7.06	99.35	105.70
36	1	2825	C	N1-C2-N3	7.06	124.14	119.20
36	1	3143	C	N3-C4-C5	-7.06	119.08	121.90
36	1	3307	A	C5-C6-N1	-7.06	114.17	117.70
38	4	15	G	C4-C5-N7	7.06	113.62	110.80
80	6	267	U	N3-C2-O2	7.06	127.14	122.20
80	6	294	C	N1-C2-N3	7.06	124.14	119.20
80	6	742	U	N1-C2-N3	-7.06	110.67	114.90
80	6	1279	C	N1-C2-N3	7.06	124.14	119.20
80	6	1488	G	C2-N3-C4	7.06	115.43	111.90
80	6	1653	C	C2-N3-C4	-7.06	116.37	119.90
85	5	139	G	C5-C6-N1	7.06	115.03	111.50
85	5	1513	G	N1-C6-O6	7.06	124.14	119.90
85	5	2194	G	C5-C6-N1	7.06	115.03	111.50
85	5	2629	U	C5-C4-O4	-7.06	121.67	125.90
85	5	2740	A	OP1-P-OP2	-7.06	109.01	119.60
85	5	2899	C	N1-C2-N3	7.06	124.14	119.20
85	5	3110	C	O5'-P-OP2	-7.06	99.35	105.70
38	8	142	C	C4-C5-C6	7.06	120.93	117.40
1	2	1533	A	C5-C6-N1	7.06	121.23	117.70
36	1	1460	A	OP2-P-O3'	7.06	120.72	105.20
36	1	2842	U	N1-C2-O2	7.06	127.74	122.80
80	6	462	G	N3-C4-C5	7.06	132.13	128.60
85	5	1611	G	N1-C2-N3	7.06	128.13	123.90
1	2	73	U	N3-C4-O4	-7.05	114.46	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	6	A	C8-N9-C4	7.05	108.62	105.80
36	1	1502	C	C5-C6-N1	-7.05	117.47	121.00
36	1	1818	U	C4-C5-C6	-7.05	115.47	119.70
36	1	2620	G	N9-C4-C5	-7.05	102.58	105.40
36	1	2818	U	N3-C4-O4	7.05	124.34	119.40
37	3	96	U	C4-C5-C6	7.05	123.93	119.70
41	L4	203	ARG	NE-CZ-NH2	-7.05	116.77	120.30
80	6	439	U	C6-N1-C2	7.05	125.23	121.00
80	6	449	C	C5-C6-N1	-7.05	117.47	121.00
80	6	1130	G	C6-N1-C2	-7.05	120.87	125.10
85	5	774	G	C5-C6-O6	7.05	132.83	128.60
85	5	2198	A	N1-C6-N6	-7.05	114.37	118.60
85	5	2533	G	C5-N7-C8	-7.05	100.77	104.30
85	5	3274	A	O5'-P-OP2	-7.05	99.35	105.70
85	5	3372	A	N1-C6-N6	-7.05	114.37	118.60
36	1	522	A	C4-C5-C6	7.05	120.53	117.00
80	6	1659	A	C8-N9-C4	-7.05	102.98	105.80
85	5	409	A	N7-C8-N9	7.05	117.33	113.80
85	5	1250	G	N1-C6-O6	-7.05	115.67	119.90
85	5	1591	G	C5-N7-C8	7.05	107.83	104.30
1	2	859	G	N3-C4-C5	7.05	132.13	128.60
36	1	187	A	C5-C6-N1	-7.05	114.17	117.70
36	1	3288	G	N1-C2-N3	-7.05	119.67	123.90
37	3	30	G	O5'-P-OP1	7.05	119.16	110.70
85	5	6	A	C5-C6-N1	-7.05	114.17	117.70
85	5	152	U	N3-C4-C5	-7.05	110.37	114.60
85	5	1941	C	N3-C4-N4	7.05	122.94	118.00
85	5	2560	C	N1-C2-N3	-7.05	114.26	119.20
85	5	3014	U	C2-N3-C4	-7.05	122.77	127.00
85	5	3188	G	N3-C4-N9	7.05	130.23	126.00
1	2	411	C	N1-C2-O2	-7.05	114.67	118.90
1	2	1492	C	N3-C4-C5	-7.05	119.08	121.90
36	1	417	A	C2-N3-C4	-7.05	107.08	110.60
36	1	1201	C	N3-C4-N4	7.05	122.93	118.00
36	1	1222	G	N3-C4-C5	-7.05	125.08	128.60
36	1	2828	G	C8-N9-C1'	-7.05	117.83	127.00
36	1	2935	U	C5-C6-N1	7.05	126.22	122.70
36	1	3390	G	C6-C5-N7	-7.05	126.17	130.40
37	3	94	C	C6-N1-C2	-7.05	117.48	120.30
80	6	447	U	N1-C2-O2	-7.05	117.86	122.80
85	5	244	G	O5'-P-OP2	-7.05	99.36	105.70
85	5	519	A	C4-C5-N7	7.05	114.22	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1414	G	C6-C5-N7	-7.05	126.17	130.40
85	5	1582	C	C2-N3-C4	7.05	123.42	119.90
85	5	2276	G	N1-C2-N3	7.05	128.13	123.90
85	5	3073	A	C4-C5-C6	-7.05	113.47	117.00
85	5	3184	A	C6-C5-N7	-7.05	127.36	132.30
37	7	32	U	N3-C4-C5	7.05	118.83	114.60
38	8	51	G	OP1-P-OP2	7.05	130.17	119.60
38	8	58	G	C5-C6-N1	-7.05	107.97	111.50
40	13	238	LEU	CB-CG-CD2	-7.05	99.02	111.00
36	1	1453	A	C5-C6-N1	7.05	121.22	117.70
80	6	856	A	C8-N9-C4	-7.05	102.98	105.80
85	5	128	G	N9-C4-C5	7.05	108.22	105.40
85	5	1355	A	C6-N1-C2	7.05	122.83	118.60
85	5	1542	G	C5-C6-N1	7.05	115.02	111.50
85	5	2187	G	C4-C5-C6	7.05	123.03	118.80
85	5	2610	G	C4-C5-N7	7.05	113.62	110.80
85	5	2847	A	C5-N7-C8	7.05	107.42	103.90
1	2	67	A	C4-C5-N7	-7.05	107.18	110.70
1	2	306	U	N3-C4-O4	7.05	124.33	119.40
1	2	1183	G	C4-C5-C6	7.05	123.03	118.80
36	1	338	A	C5-C6-N6	7.05	129.34	123.70
36	1	869	G	C5-C6-N1	-7.05	107.98	111.50
36	1	1006	A	O5'-P-OP2	-7.05	99.36	105.70
36	1	1269	U	N1-C2-O2	7.05	127.73	122.80
36	1	2555	G	C2-N3-C4	-7.05	108.38	111.90
38	4	30	C	C6-N1-C2	7.05	123.12	120.30
38	4	105	A	N7-C8-N9	7.05	117.32	113.80
80	6	86	A	C2-N3-C4	7.05	114.12	110.60
80	6	359	A	N9-C4-C5	-7.05	102.98	105.80
80	6	1487	A	N7-C8-N9	-7.05	110.28	113.80
85	5	25	U	C2-N3-C4	-7.05	122.77	127.00
85	5	267	G	N3-C4-C5	7.05	132.12	128.60
85	5	1314	C	C5-C4-N4	-7.05	115.27	120.20
85	5	2358	A	C8-N9-C4	-7.05	102.98	105.80
85	5	2789	U	N1-C2-O2	-7.05	117.87	122.80
85	5	3204	C	OP1-P-OP2	-7.05	109.03	119.60
36	1	908	G	C4-C5-N7	7.04	113.62	110.80
80	6	426	G	N1-C2-N3	7.04	128.13	123.90
85	5	432	G	C5-C6-N1	-7.04	107.98	111.50
85	5	833	G	C2-N3-C4	-7.04	108.38	111.90
85	5	1055	A	N1-C6-N6	-7.04	114.37	118.60
85	5	1203	A	N1-C6-N6	-7.04	114.37	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2237	C	N3-C4-C5	7.04	124.72	121.90
85	5	2285	C	C5-C6-N1	7.04	124.52	121.00
37	7	73	C	N3-C2-O2	-7.04	116.97	121.90
70	o4	88	ARG	NE-CZ-NH1	7.04	123.82	120.30
1	2	235	G	N3-C2-N2	-7.04	114.97	119.90
36	1	17	G	N1-C2-N3	-7.04	119.67	123.90
36	1	397	A	C6-C5-N7	7.04	137.23	132.30
36	1	527	A	N1-C6-N6	7.04	122.83	118.60
80	6	82	U	O5'-P-OP1	7.04	119.15	110.70
80	6	103	A	N9-C4-C5	7.04	108.62	105.80
80	6	967	A	C5-C6-N1	7.04	121.22	117.70
80	6	974	A	N1-C6-N6	7.04	122.83	118.60
80	6	1527	C	N1-C2-N3	-7.04	114.27	119.20
80	6	1548	G	N1-C6-O6	-7.04	115.67	119.90
85	5	424	G	N1-C2-N2	7.04	122.54	116.20
85	5	805	G	C5-N7-C8	7.04	107.82	104.30
85	5	985	U	C4-C5-C6	7.04	123.93	119.70
85	5	1256	G	N9-C4-C5	-7.04	102.58	105.40
85	5	1924	U	C5-C6-N1	-7.04	119.18	122.70
85	5	1928	G	N3-C4-N9	-7.04	121.77	126.00
85	5	3311	C	N3-C4-N4	7.04	122.93	118.00
38	8	61	A	N3-C4-C5	-7.04	121.87	126.80
1	2	622	A	O5'-P-OP2	7.04	119.15	110.70
1	2	1535	U	N3-C4-O4	7.04	124.33	119.40
1	2	1558	G	N3-C4-C5	-7.04	125.08	128.60
36	1	1408	G	OP1-P-O3'	7.04	120.69	105.20
36	1	1483	G	N3-C4-C5	-7.04	125.08	128.60
36	1	1926	C	C6-N1-C2	7.04	123.12	120.30
36	1	2435	G	O5'-P-OP2	7.04	119.15	110.70
36	1	3346	U	C5-C6-N1	-7.04	119.18	122.70
80	6	266	A	N9-C4-C5	7.04	108.62	105.80
80	6	1204	A	C4-C5-C6	7.04	120.52	117.00
80	6	1643	U	N3-C4-O4	-7.04	114.47	119.40
85	5	691	A	N1-C2-N3	7.04	132.82	129.30
85	5	1110	U	C6-N1-C2	-7.04	116.78	121.00
85	5	2121	G	C2-N3-C4	-7.04	108.38	111.90
85	5	3034	C	C2-N3-C4	-7.04	116.38	119.90
85	5	3130	A	O5'-P-OP1	-7.04	99.36	105.70
1	2	193	U	C5-C4-O4	7.04	130.12	125.90
36	1	95	A	OP2-P-O3'	7.04	120.69	105.20
36	1	1234	G	N1-C6-O6	-7.04	115.68	119.90
36	1	1854	C	C5-C6-N1	7.04	124.52	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2302	G	C6-N1-C2	-7.04	120.88	125.10
36	1	3053	G	C2-N3-C4	-7.04	108.38	111.90
85	5	355	A	O5'-P-OP1	-7.04	99.36	105.70
85	5	685	G	N1-C2-N2	-7.04	109.86	116.20
85	5	1117	G	C6-N1-C2	-7.04	120.88	125.10
85	5	2382	G	N7-C8-N9	-7.04	109.58	113.10
37	7	119	U	C6-N1-C2	7.04	125.22	121.00
1	2	28	A	N7-C8-N9	-7.04	110.28	113.80
1	2	1163	C	O5'-P-OP1	7.04	119.15	110.70
36	1	686	G	C5-C6-O6	7.04	132.82	128.60
36	1	917	A	O5'-P-OP2	-7.04	99.36	105.70
36	1	957	C	C2-N3-C4	-7.04	116.38	119.90
36	1	1143	A	C2-N3-C4	-7.04	107.08	110.60
36	1	1420	C	C5-C4-N4	7.04	125.13	120.20
36	1	3387	U	N3-C4-O4	-7.04	114.47	119.40
38	4	66	A	N1-C2-N3	7.04	132.82	129.30
51	M5	162	ARG	NE-CZ-NH1	7.04	123.82	120.30
80	6	61	A	C2-N3-C4	-7.04	107.08	110.60
80	6	148	A	C6-N1-C2	-7.04	114.38	118.60
80	6	449	C	N3-C4-N4	-7.04	113.07	118.00
80	6	1617	U	C4-C5-C6	7.04	123.92	119.70
80	6	1638	G	C5-N7-C8	-7.04	100.78	104.30
80	6	1775	U	C6-N1-C2	7.04	125.22	121.00
85	5	213	A	C2-N3-C4	7.04	114.12	110.60
85	5	867	G	C8-N9-C4	-7.04	103.58	106.40
85	5	972	A	C4-C5-N7	-7.04	107.18	110.70
85	5	1128	U	O5'-P-OP1	7.04	119.15	110.70
85	5	2270	A	C4-C5-N7	7.04	114.22	110.70
85	5	3315	G	O5'-P-OP1	-7.04	99.36	105.70
37	7	102	A	N9-C4-C5	-7.04	102.98	105.80
37	7	102	A	C4-C5-C6	7.04	120.52	117.00
46	19	62	ARG	NE-CZ-NH1	7.04	123.82	120.30
36	1	236	G	N3-C2-N2	7.04	124.83	119.90
36	1	847	A	C5-C6-N1	7.04	121.22	117.70
36	1	2112	U	C6-N1-C2	7.04	125.22	121.00
80	6	1745	G	C5-C6-N1	-7.04	107.98	111.50
85	5	646	A	N9-C4-C5	7.04	108.61	105.80
85	5	994	G	N3-C2-N2	7.04	124.83	119.90
85	5	1165	A	C5-C6-N1	7.04	121.22	117.70
85	5	1318	A	C6-N1-C2	-7.04	114.38	118.60
85	5	1602	A	N1-C2-N3	7.04	132.82	129.30
85	5	3184	A	C5-C6-N6	-7.04	118.07	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3241	G	O5'-P-OP1	7.04	119.14	110.70
1	2	897	G	N1-C6-O6	7.04	124.12	119.90
1	2	953	A	N1-C2-N3	7.04	132.82	129.30
36	1	296	A	N7-C8-N9	7.04	117.32	113.80
36	1	640	U	OP2-P-O3'	7.04	120.68	105.20
36	1	824	C	C5-C4-N4	-7.04	115.28	120.20
36	1	2146	C	C2-N3-C4	-7.04	116.38	119.90
36	1	2176	U	N3-C4-C5	-7.04	110.38	114.60
36	1	2561	A	N1-C2-N3	-7.04	125.78	129.30
36	1	2752	U	OP1-P-OP2	7.04	130.15	119.60
80	6	17	C	N1-C2-O2	7.04	123.12	118.90
80	6	323	A	C4-C5-N7	7.04	114.22	110.70
80	6	419	G	C5-C6-N1	7.04	115.02	111.50
80	6	871	G	N1-C2-N3	7.04	128.12	123.90
85	5	511	G	O5'-P-OP2	-7.04	99.37	105.70
85	5	1408	G	C5-C6-N1	7.04	115.02	111.50
85	5	1556	C	C6-N1-C2	-7.04	117.49	120.30
85	5	1656	A	C5-N7-C8	7.04	107.42	103.90
85	5	2251	G	N1-C6-O6	7.04	124.12	119.90
85	5	2536	A	C8-N9-C4	7.04	108.61	105.80
85	5	2664	C	N3-C2-O2	7.04	126.83	121.90
85	5	3375	A	C5-N7-C8	-7.04	100.38	103.90
1	2	264	G	N7-C8-N9	-7.03	109.58	113.10
36	1	1094	U	C2-N3-C4	7.03	131.22	127.00
36	1	1394	A	N7-C8-N9	-7.03	110.28	113.80
80	6	1014	G	N3-C2-N2	-7.03	114.98	119.90
85	5	171	G	N3-C2-N2	7.03	124.82	119.90
85	5	330	G	C5-C6-N1	7.03	115.02	111.50
85	5	515	C	C6-N1-C2	7.03	123.11	120.30
85	5	1089	G	N1-C6-O6	7.03	124.12	119.90
85	5	2321	A	C2-N3-C4	-7.03	107.08	110.60
85	5	2663	G	N3-C2-N2	-7.03	114.98	119.90
85	5	2854	U	O5'-P-OP2	7.03	119.14	110.70
85	5	3073	A	N1-C2-N3	-7.03	125.78	129.30
1	2	90	C	N3-C4-N4	7.03	122.92	118.00
1	2	209	U	OP1-P-OP2	-7.03	109.05	119.60
36	1	610	G	C6-C5-N7	-7.03	126.18	130.40
36	1	1757	A	N7-C8-N9	7.03	117.32	113.80
36	1	1874	A	C2-N3-C4	-7.03	107.08	110.60
36	1	2656	A	C8-N9-C4	-7.03	102.99	105.80
36	1	2736	A	N3-C4-C5	7.03	131.72	126.80
85	5	1311	G	C2-N3-C4	-7.03	108.38	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1927	G	N1-C6-O6	7.03	124.12	119.90
1	2	1644	U	C6-N1-C2	7.03	125.22	121.00
36	1	55	G	N1-C6-O6	7.03	124.12	119.90
36	1	771	A	N1-C6-N6	7.03	122.82	118.60
36	1	833	G	C6-N1-C2	-7.03	120.88	125.10
36	1	1006	A	C4-C5-N7	-7.03	107.18	110.70
37	3	109	G	O5'-P-OP2	7.03	119.14	110.70
79	Q3	85	ARG	NE-CZ-NH1	7.03	123.82	120.30
80	6	152	U	N3-C2-O2	-7.03	117.28	122.20
80	6	387	A	N9-C4-C5	7.03	108.61	105.80
80	6	897	C	C6-N1-C2	-7.03	117.49	120.30
80	6	1086	A	O5'-P-OP1	7.03	119.14	110.70
85	5	370	U	C2-N3-C4	-7.03	122.78	127.00
85	5	669	U	N3-C2-O2	-7.03	117.28	122.20
85	5	3000	A	C6-C5-N7	-7.03	127.38	132.30
85	5	3202	G	C8-N9-C4	-7.03	103.59	106.40
36	1	1060	U	O5'-P-OP2	7.03	119.14	110.70
85	5	1005	G	N9-C4-C5	-7.03	102.59	105.40
1	2	1743	G	C5-C6-N1	7.03	115.01	111.50
36	1	2330	C	C5-C4-N4	-7.03	115.28	120.20
36	1	3126	C	OP1-P-OP2	7.03	130.14	119.60
36	1	3145	C	C5-C6-N1	7.03	124.51	121.00
36	1	3326	G	N7-C8-N9	-7.03	109.59	113.10
38	4	88	A	C4-C5-N7	-7.03	107.19	110.70
80	6	559	C	OP1-P-OP2	-7.03	109.06	119.60
80	6	1574	G	N3-C4-C5	-7.03	125.09	128.60
85	5	97	U	OP1-P-OP2	-7.03	109.06	119.60
85	5	1364	C	N3-C4-N4	7.03	122.92	118.00
85	5	2193	U	OP2-P-O3'	7.03	120.66	105.20
85	5	3239	G	C8-N9-C4	-7.03	103.59	106.40
85	5	3338	C	C5-C6-N1	-7.03	117.49	121.00
1	2	313	U	N3-C2-O2	-7.03	117.28	122.20
1	2	1131	C	C2-N3-C4	-7.03	116.39	119.90
36	1	802	C	OP2-P-O3'	7.03	120.66	105.20
36	1	1367	G	C5-C6-O6	-7.03	124.38	128.60
36	1	1433	A	N1-C2-N3	7.03	132.81	129.30
36	1	1461	A	C6-C5-N7	-7.03	127.38	132.30
36	1	1661	G	C2-N3-C4	-7.03	108.39	111.90
36	1	1667	A	OP1-P-OP2	-7.03	109.06	119.60
36	1	2417	U	C6-N1-C2	7.03	125.22	121.00
80	6	244	A	C5-C6-N6	7.03	129.32	123.70
80	6	979	A	C2-N3-C4	7.03	114.11	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1491	U	N3-C2-O2	7.03	127.12	122.20
85	5	979	U	C5-C6-N1	7.03	126.21	122.70
85	5	984	G	C5-C6-O6	-7.03	124.38	128.60
85	5	1829	G	C5-C6-N1	-7.03	107.99	111.50
85	5	2623	G	C6-N1-C2	-7.03	120.88	125.10
85	5	2828	G	C6-C5-N7	-7.03	126.18	130.40
36	1	194	U	C2-N3-C4	7.02	131.21	127.00
36	1	426	G	C2-N3-C4	7.02	115.41	111.90
36	1	3021	A	C5-C6-N1	7.02	121.21	117.70
80	6	1200	G	C4-C5-N7	7.02	113.61	110.80
85	5	646	A	C5-C6-N6	7.02	129.32	123.70
85	5	1442	U	N3-C4-O4	-7.02	114.48	119.40
85	5	3176	G	C6-N1-C2	-7.02	120.89	125.10
36	1	350	C	C5-C4-N4	-7.02	115.28	120.20
36	1	516	A	O4'-C1'-N9	-7.02	102.58	108.20
36	1	818	C	O5'-P-OP1	-7.02	99.38	105.70
36	1	1809	A	N1-C2-N3	7.02	132.81	129.30
36	1	2726	C	N3-C4-N4	-7.02	113.08	118.00
36	1	3081	C	N1-C2-O2	-7.02	114.69	118.90
37	3	74	C	C2-N1-C1'	-7.02	111.07	118.80
38	4	75	G	OP2-P-O3'	7.02	120.65	105.20
80	6	1573	A	P-O3'-C3'	7.02	128.13	119.70
85	5	355	A	C2-N3-C4	-7.02	107.09	110.60
85	5	568	G	N3-C2-N2	-7.02	114.98	119.90
85	5	797	U	C2-N3-C4	-7.02	122.79	127.00
85	5	1051	U	N3-C4-C5	-7.02	110.39	114.60
85	5	1481	A	O5'-P-OP1	-7.02	99.38	105.70
85	5	2907	G	N9-C4-C5	-7.02	102.59	105.40
85	5	3097	C	O5'-P-OP2	7.02	119.13	110.70
85	5	3316	A	C2-N3-C4	-7.02	107.09	110.60
50	m4	77	ARG	NE-CZ-NH1	-7.02	116.79	120.30
1	2	56	U	O5'-P-OP1	7.02	119.12	110.70
1	2	606	A	C5-C6-N1	-7.02	114.19	117.70
1	2	1062	U	C4-C5-C6	-7.02	115.49	119.70
36	1	1898	G	N3-C4-C5	-7.02	125.09	128.60
36	1	2601	A	C6-C5-N7	7.02	137.21	132.30
80	6	195	G	N3-C4-N9	7.02	130.21	126.00
85	5	1667	A	C4-C5-C6	-7.02	113.49	117.00
85	5	2136	C	C6-N1-C2	-7.02	117.49	120.30
85	5	3138	U	C2-N3-C4	7.02	131.21	127.00
1	2	1342	C	N1-C2-O2	-7.02	114.69	118.90
36	1	695	C	C6-N1-C2	7.02	123.11	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	880	G	O5'-P-OP2	-7.02	99.38	105.70
38	4	73	U	N3-C4-O4	-7.02	114.49	119.40
39	L2	184	ARG	NE-CZ-NH1	-7.02	116.79	120.30
42	L5	184	ASP	CB-CG-OD1	7.02	124.62	118.30
80	6	266	A	C8-N9-C4	-7.02	102.99	105.80
80	6	386	G	N7-C8-N9	7.02	116.61	113.10
80	6	1116	A	C5-C6-N1	7.02	121.21	117.70
85	5	75	G	C2-N3-C4	-7.02	108.39	111.90
85	5	1070	U	N3-C4-C5	7.02	118.81	114.60
85	5	2270	A	C5-N7-C8	-7.02	100.39	103.90
85	5	2416	U	C5-C6-N1	7.02	126.21	122.70
85	5	2604	U	C5-C6-N1	7.02	126.21	122.70
47	m0	57	LEU	CA-CB-CG	7.02	131.45	115.30
36	1	134	U	C2-N1-C1'	-7.02	109.28	117.70
36	1	871	U	OP2-P-O3'	7.02	120.64	105.20
36	1	3241	G	C5-N7-C8	7.02	107.81	104.30
36	1	3348	G	N1-C6-O6	7.02	124.11	119.90
80	6	1106	U	C6-N1-C2	-7.02	116.79	121.00
80	6	1701	A	N1-C2-N3	-7.02	125.79	129.30
85	5	380	U	N3-C4-C5	-7.02	110.39	114.60
85	5	962	A	C6-N1-C2	-7.02	114.39	118.60
85	5	1172	G	C8-N9-C4	7.02	109.21	106.40
85	5	1395	G	OP1-P-OP2	7.02	130.12	119.60
85	5	2276	G	C2-N3-C4	-7.02	108.39	111.90
85	5	2879	C	C2-N1-C1'	-7.02	111.08	118.80
85	5	3106	A	C8-N9-C4	-7.02	102.99	105.80
38	8	109	A	N1-C6-N6	-7.02	114.39	118.60
36	1	408	A	C4-C5-C6	7.02	120.51	117.00
36	1	1184	A	C5-N7-C8	7.02	107.41	103.90
80	6	1023	A	C5-C6-N1	-7.02	114.19	117.70
85	5	865	U	C2-N1-C1'	-7.02	109.28	117.70
85	5	1409	G	C5-N7-C8	-7.02	100.79	104.30
85	5	1718	G	N3-C2-N2	-7.02	114.99	119.90
85	5	3075	G	C5-C6-N1	-7.02	107.99	111.50
1	2	439	U	N1-C2-O2	-7.01	117.89	122.80
36	1	985	U	N1-C2-O2	-7.01	117.89	122.80
36	1	1063	G	C8-N9-C4	-7.01	103.59	106.40
36	1	2223	A	C6-C5-N7	-7.01	127.39	132.30
36	1	2639	G	C4-N9-C1'	7.01	135.62	126.50
36	1	2787	G	C6-C5-N7	-7.01	126.19	130.40
36	1	2965	U	N3-C2-O2	7.01	127.11	122.20
36	1	3128	G	C6-C5-N7	-7.01	126.19	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3234	A	C4-C5-N7	7.01	114.21	110.70
36	1	3345	G	C5-C6-N1	7.01	115.01	111.50
38	4	7	U	C6-N1-C2	-7.01	116.79	121.00
38	4	143	U	N3-C4-O4	7.01	124.31	119.40
52	M6	117	ARG	NE-CZ-NH1	-7.01	116.79	120.30
57	N1	97	LYS	CD-CE-NZ	7.01	127.83	111.70
85	5	604	G	N1-C2-N2	7.01	122.51	116.20
85	5	1169	A	OP2-P-O3'	7.01	120.63	105.20
85	5	1951	C	C6-N1-C2	7.01	123.11	120.30
85	5	2509	U	N1-C2-O2	7.01	127.71	122.80
85	5	2583	C	N3-C2-O2	7.01	126.81	121.90
85	5	2907	G	N1-C2-N3	7.01	128.11	123.90
85	5	3325	G	N1-C6-O6	7.01	124.11	119.90
36	1	368	G	O5'-P-OP2	-7.01	99.39	105.70
36	1	2187	G	N7-C8-N9	7.01	116.61	113.10
36	1	2201	G	O5'-P-OP1	7.01	119.12	110.70
38	4	88	A	C6-N1-C2	-7.01	114.39	118.60
80	6	344	A	C4-C5-C6	-7.01	113.49	117.00
80	6	1317	C	C6-N1-C2	7.01	123.11	120.30
85	5	842	G	C2-N3-C4	-7.01	108.39	111.90
85	5	2295	A	OP2-P-O3'	7.01	120.63	105.20
57	n1	12	ARG	NE-CZ-NH1	-7.01	116.79	120.30
1	2	573	C	O5'-P-OP1	-7.01	99.39	105.70
1	2	608	U	C4-C5-C6	7.01	123.91	119.70
1	2	827	A	C5-C6-N6	-7.01	118.09	123.70
1	2	1036	G	C8-N9-C4	-7.01	103.60	106.40
36	1	775	A	C4-C5-C6	7.01	120.51	117.00
36	1	909	G	C5-C6-O6	-7.01	124.39	128.60
36	1	3366	G	C5-C6-O6	7.01	132.81	128.60
37	3	5	G	C8-N9-C4	7.01	109.20	106.40
80	6	77	U	C6-N1-C2	7.01	125.21	121.00
80	6	823	G	C2-N3-C4	7.01	115.41	111.90
80	6	1195	C	C2-N3-C4	7.01	123.41	119.90
80	6	1627	U	N3-C4-C5	-7.01	110.39	114.60
85	5	30	G	N1-C6-O6	7.01	124.11	119.90
85	5	39	A	C8-N9-C4	-7.01	103.00	105.80
85	5	355	A	O5'-P-OP2	7.01	119.11	110.70
85	5	1414	G	C5-C6-N1	-7.01	107.99	111.50
85	5	2639	G	OP1-P-OP2	-7.01	109.08	119.60
1	2	361	C	N3-C2-O2	7.01	126.81	121.90
1	2	1496	G	N1-C2-N3	7.01	128.10	123.90
36	1	49	A	C4-C5-C6	7.01	120.50	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	210	U	C2-N3-C4	-7.01	122.80	127.00
36	1	958	C	N1-C2-N3	7.01	124.11	119.20
36	1	1051	U	C6-N1-C2	7.01	125.21	121.00
36	1	1205	A	C5-C6-N1	-7.01	114.19	117.70
36	1	1869	C	C2-N3-C4	7.01	123.40	119.90
36	1	2704	A	C2-N3-C4	-7.01	107.09	110.60
36	1	2727	A	C5-N7-C8	7.01	107.41	103.90
80	6	165	G	N3-C4-N9	-7.01	121.80	126.00
85	5	2869	U	OP1-P-OP2	-7.01	109.09	119.60
85	5	3091	A	C5-C6-N6	7.01	129.31	123.70
85	5	3206	C	N3-C4-C5	7.01	124.70	121.90
37	7	92	A	N7-C8-N9	-7.01	110.30	113.80
38	8	102	U	O5'-P-OP1	7.01	119.11	110.70
36	1	2394	G	C8-N9-C4	7.01	109.20	106.40
80	6	1132	A	C2-N3-C4	-7.01	107.10	110.60
85	5	408	A	O4'-C1'-N9	-7.01	102.59	108.20
85	5	3101	G	C5-N7-C8	7.01	107.80	104.30
85	5	3321	C	C2-N3-C4	-7.01	116.40	119.90
36	1	1178	G	C5-C6-N1	7.01	115.00	111.50
36	1	2614	G	C4-C5-C6	7.01	123.00	118.80
36	1	2833	A	N1-C2-N3	7.01	132.80	129.30
80	6	345	U	N1-C2-N3	7.01	119.10	114.90
80	6	1318	G	N3-C4-C5	7.01	132.10	128.60
80	6	1636	C	O4'-C1'-N1	-7.01	102.59	108.20
85	5	374	A	C5-N7-C8	-7.01	100.40	103.90
85	5	424	G	C2-N3-C4	7.01	115.40	111.90
85	5	1109	U	O5'-P-OP2	-7.01	99.39	105.70
85	5	1408	G	C5-C6-O6	-7.01	124.40	128.60
38	8	31	G	C5-C6-O6	-7.01	124.40	128.60
36	1	1061	A	N1-C6-N6	7.00	122.80	118.60
36	1	1115	G	O5'-P-OP2	-7.00	99.40	105.70
36	1	2348	A	C4-C5-C6	7.00	120.50	117.00
36	1	3007	U	O5'-P-OP2	-7.00	99.39	105.70
38	4	92	A	C4-C5-C6	7.00	120.50	117.00
85	5	1124	U	N1-C2-O2	7.00	127.70	122.80
85	5	1131	G	C4-C5-C6	7.00	123.00	118.80
1	2	691	C	C2-N3-C4	7.00	123.40	119.90
1	2	1097	G	C6-C5-N7	-7.00	126.20	130.40
1	2	1264	G	N3-C4-C5	7.00	132.10	128.60
36	1	1890	U	C4-C5-C6	-7.00	115.50	119.70
36	1	2162	U	C5-C6-N1	-7.00	119.20	122.70
36	1	2344	U	OP2-P-O3'	7.00	120.61	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2426	U	N3-C4-O4	-7.00	114.50	119.40
36	1	2938	G	C6-N1-C2	-7.00	120.90	125.10
38	4	48	A	N1-C6-N6	7.00	122.80	118.60
80	6	42	G	N1-C2-N3	7.00	128.10	123.90
80	6	630	A	N1-C6-N6	7.00	122.80	118.60
80	6	994	G	C2-N3-C4	-7.00	108.40	111.90
85	5	1443	G	C4-C5-N7	7.00	113.60	110.80
85	5	1501	U	N1-C2-O2	-7.00	117.90	122.80
85	5	1848	G	C6-C5-N7	-7.00	126.20	130.40
85	5	2181	C	C4-C5-C6	-7.00	113.90	117.40
36	1	883	A	C4-C5-C6	7.00	120.50	117.00
36	1	1154	A	C4-C5-C6	7.00	120.50	117.00
36	1	2231	C	N3-C2-O2	7.00	126.80	121.90
36	1	3026	G	N3-C4-N9	-7.00	121.80	126.00
85	5	63	A	O4'-C1'-N9	-7.00	102.60	108.20
85	5	660	A	C5-C6-N1	7.00	121.20	117.70
85	5	856	G	N1-C2-N3	7.00	128.10	123.90
85	5	1359	C	C6-N1-C2	7.00	123.10	120.30
85	5	1381	A	N9-C4-C5	-7.00	103.00	105.80
85	5	2436	U	C6-N1-C2	7.00	125.20	121.00
85	5	2726	C	C6-N1-C2	-7.00	117.50	120.30
85	5	2966	G	C4-C5-C6	7.00	123.00	118.80
85	5	3028	G	N1-C2-N3	7.00	128.10	123.90
36	1	28	C	C6-N1-C2	-7.00	117.50	120.30
36	1	1146	C	C6-N1-C2	-7.00	117.50	120.30
36	1	1934	G	C8-N9-C4	-7.00	103.60	106.40
80	6	1136	U	C5-C4-O4	7.00	130.10	125.90
85	5	1085	A	C4-C5-N7	7.00	114.20	110.70
85	5	2162	U	N1-C2-N3	7.00	119.10	114.90
85	5	2194	G	O5'-P-OP2	-7.00	99.40	105.70
1	2	67	A	N1-C6-N6	-7.00	114.40	118.60
1	2	255	U	O5'-P-OP1	-7.00	99.40	105.70
36	1	1059	G	OP1-P-OP2	7.00	130.10	119.60
36	1	1555	U	C5-C6-N1	-7.00	119.20	122.70
36	1	1789	G	C4-C5-C6	-7.00	114.60	118.80
36	1	1893	A	C8-N9-C4	-7.00	103.00	105.80
36	1	2324	A	N1-C6-N6	-7.00	114.40	118.60
36	1	2434	U	N1-C2-N3	7.00	119.10	114.90
36	1	2441	A	C8-N9-C4	-7.00	103.00	105.80
36	1	2715	A	C6-C5-N7	7.00	137.20	132.30
36	1	2741	C	C5-C6-N1	-7.00	117.50	121.00
36	1	2840	C	O5'-P-OP1	7.00	119.10	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3176	G	C4-C5-N7	7.00	113.60	110.80
38	4	90	U	N1-C2-N3	7.00	119.10	114.90
80	6	427	C	C5-C6-N1	-7.00	117.50	121.00
80	6	1111	G	N1-C6-O6	-7.00	115.70	119.90
85	5	1087	G	N7-C8-N9	7.00	116.60	113.10
85	5	2875	U	N3-C4-O4	7.00	124.30	119.40
38	8	27	U	C4-C5-C6	-7.00	115.50	119.70
38	8	47	C	N1-C2-N3	7.00	124.10	119.20
38	8	114	G	C6-C5-N7	-7.00	126.20	130.40
1	2	644	C	C6-N1-C2	-7.00	117.50	120.30
1	2	690	A	N1-C6-N6	-7.00	114.40	118.60
1	2	868	G	N1-C6-O6	7.00	124.10	119.90
36	1	1073	U	C5-C6-N1	-7.00	119.20	122.70
36	1	1314	C	C2-N1-C1'	7.00	126.50	118.80
36	1	1371	G	N3-C2-N2	-7.00	115.00	119.90
36	1	1465	A	O5'-P-OP2	-7.00	99.40	105.70
36	1	1578	C	N3-C4-N4	7.00	122.90	118.00
36	1	1649	U	C5-C6-N1	7.00	126.20	122.70
36	1	1814	A	N1-C2-N3	-7.00	125.80	129.30
36	1	2105	G	C4-C5-N7	7.00	113.60	110.80
36	1	2339	C	N1-C2-N3	-7.00	114.30	119.20
36	1	2612	U	C2-N3-C4	-7.00	122.80	127.00
36	1	3114	A	C6-N1-C2	-7.00	114.40	118.60
36	1	3161	C	N1-C2-N3	-7.00	114.30	119.20
36	1	3256	G	O5'-P-OP2	-7.00	99.40	105.70
38	4	97	A	C8-N9-C4	-7.00	103.00	105.80
80	6	1651	A	C5-N7-C8	-7.00	100.40	103.90
85	5	116	A	C5-C6-N1	-7.00	114.20	117.70
85	5	2605	G	OP2-P-O3'	7.00	120.59	105.20
85	5	2676	A	C2-N3-C4	-7.00	107.10	110.60
1	2	1637	G	C2-N3-C4	7.00	115.40	111.90
36	1	1198	C	C5-C4-N4	7.00	125.10	120.20
36	1	2746	A	N3-C4-N9	-7.00	121.80	127.40
80	6	300	A	OP1-P-OP2	-7.00	109.11	119.60
85	5	305	U	C5-C6-N1	-7.00	119.20	122.70
85	5	1727	G	N1-C2-N3	7.00	128.10	123.90
1	2	1640	U	C2-N3-C4	6.99	131.20	127.00
36	1	794	U	O5'-P-OP2	-6.99	99.41	105.70
36	1	886	C	N3-C2-O2	6.99	126.80	121.90
36	1	2184	U	N3-C4-C5	-6.99	110.40	114.60
41	L4	219	LEU	CB-CG-CD2	-6.99	99.11	111.00
80	6	114	C	N3-C4-N4	6.99	122.90	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1145	U	N1-C2-N3	6.99	119.10	114.90
85	5	115	A	N3-C4-C5	6.99	131.69	126.80
85	5	311	C	N1-C2-N3	6.99	124.10	119.20
85	5	1186	G	N3-C2-N2	-6.99	115.00	119.90
85	5	1776	G	N1-C2-N2	6.99	122.49	116.20
85	5	1931	U	C2-N3-C4	-6.99	122.80	127.00
85	5	3276	G	N1-C2-N3	-6.99	119.70	123.90
1	2	66	U	O5'-P-OP1	-6.99	99.41	105.70
1	2	78	A	N9-C4-C5	6.99	108.60	105.80
1	2	1537	U	C6-N1-C2	-6.99	116.81	121.00
36	1	3144	G	N3-C2-N2	-6.99	115.00	119.90
36	1	3271	G	C5-C6-N1	-6.99	108.00	111.50
36	1	3324	C	C5-C6-N1	-6.99	117.50	121.00
80	6	582	U	C5-C4-O4	-6.99	121.70	125.90
80	6	1732	A	N7-C8-N9	6.99	117.30	113.80
85	5	231	G	O5'-P-OP2	-6.99	99.41	105.70
85	5	280	U	N1-C2-O2	-6.99	117.91	122.80
85	5	1161	G	N1-C2-N2	6.99	122.49	116.20
1	2	1086	U	N3-C4-O4	-6.99	114.51	119.40
36	1	3208	G	N3-C4-C5	-6.99	125.11	128.60
80	6	324	U	O5'-P-OP2	-6.99	99.41	105.70
80	6	1116	A	C5-N7-C8	-6.99	100.41	103.90
85	5	676	G	C8-N9-C4	-6.99	103.60	106.40
85	5	1450	G	N3-C4-C5	6.99	132.10	128.60
85	5	1608	C	C4-C5-C6	-6.99	113.91	117.40
85	5	1908	A	C6-N1-C2	-6.99	114.41	118.60
85	5	1934	G	C4-C5-N7	-6.99	108.00	110.80
85	5	2281	A	C5-C6-N6	6.99	129.29	123.70
37	7	51	A	OP1-P-OP2	-6.99	109.11	119.60
36	1	668	G	C5-C6-O6	6.99	132.79	128.60
36	1	1753	G	C2-N3-C4	-6.99	108.41	111.90
36	1	2303	A	OP1-P-O3'	6.99	120.57	105.20
36	1	2879	C	O5'-P-OP1	-6.99	99.41	105.70
80	6	265	A	N1-C6-N6	6.99	122.79	118.60
85	5	41	G	N1-C2-N3	6.99	128.09	123.90
85	5	713	U	N3-C2-O2	6.99	127.09	122.20
85	5	2784	G	C4-C5-C6	6.99	122.99	118.80
85	5	3329	U	N3-C4-C5	-6.99	110.41	114.60
38	8	117	C	N3-C4-N4	6.99	122.89	118.00
36	1	2514	U	O5'-P-OP2	-6.99	99.41	105.70
85	5	582	G	C5-C6-O6	-6.99	124.41	128.60
85	5	2206	G	N1-C2-N3	-6.99	119.71	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	56	G	N1-C2-N3	6.99	128.09	123.90
36	1	24	G	C5-C6-N1	-6.99	108.01	111.50
36	1	675	C	C4-C5-C6	6.99	120.89	117.40
36	1	946	U	N3-C4-O4	6.99	124.29	119.40
80	6	1728	A	C5-N7-C8	-6.99	100.41	103.90
85	5	409	A	N1-C6-N6	-6.99	114.41	118.60
85	5	1548	C	C6-N1-C2	-6.99	117.51	120.30
85	5	2575	G	C5-C6-O6	6.99	132.79	128.60
85	5	2687	G	N3-C4-N9	6.99	130.19	126.00
85	5	2889	C	C5-C6-N1	6.99	124.49	121.00
37	7	44	C	N1-C2-O2	-6.99	114.71	118.90
36	1	186	U	N1-C2-O2	6.98	127.69	122.80
36	1	602	A	C6-N1-C2	6.98	122.79	118.60
36	1	1174	G	N9-C4-C5	-6.98	102.61	105.40
36	1	1465	A	OP1-P-O3'	6.98	120.56	105.20
36	1	1900	A	N1-C2-N3	6.98	132.79	129.30
38	4	105	A	C5-C6-N6	-6.98	118.11	123.70
80	6	352	A	N1-C6-N6	-6.98	114.41	118.60
85	5	673	U	O5'-P-OP1	6.98	119.08	110.70
85	5	688	G	N1-C2-N3	6.98	128.09	123.90
85	5	1467	A	C8-N9-C4	6.98	108.59	105.80
1	2	175	G	C5-C6-O6	6.98	132.79	128.60
1	2	565	C	C2-N3-C4	-6.98	116.41	119.90
1	2	755	G	N1-C6-O6	6.98	124.09	119.90
1	2	1095	G	N1-C2-N2	-6.98	109.92	116.20
1	2	1115	A	C8-N9-C4	6.98	108.59	105.80
36	1	935	U	C2-N1-C1'	6.98	126.08	117.70
73	O7	45	ARG	NE-CZ-NH1	-6.98	116.81	120.30
85	5	114	A	C5-N7-C8	-6.98	100.41	103.90
85	5	1270	A	C8-N9-C4	6.98	108.59	105.80
85	5	2440	G	N9-C4-C5	6.98	108.19	105.40
85	5	3149	G	C5-C6-O6	-6.98	124.41	128.60
1	2	1129	G	C5-C6-N1	-6.98	108.01	111.50
1	2	1374	A	O5'-P-OP2	-6.98	99.42	105.70
1	2	1489	G	N3-C4-C5	-6.98	125.11	128.60
36	1	609	G	N3-C2-N2	-6.98	115.01	119.90
36	1	2399	A	N1-C6-N6	6.98	122.79	118.60
36	1	2419	A	N3-C4-N9	-6.98	121.81	127.40
36	1	2506	U	O5'-P-OP2	6.98	119.08	110.70
36	1	2637	A	N3-C4-C5	-6.98	121.91	126.80
36	1	3060	C	C6-N1-C2	6.98	123.09	120.30
36	1	3183	A	C5-C6-N1	-6.98	114.21	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	55	G	C2-N3-C4	-6.98	108.41	111.90
85	5	1055	A	C6-N1-C2	-6.98	114.41	118.60
85	5	1452	A	N1-C2-N3	6.98	132.79	129.30
85	5	1948	G	C8-N9-C4	-6.98	103.61	106.40
85	5	2553	U	N3-C4-C5	-6.98	110.41	114.60
47	m0	7	ARG	NE-CZ-NH1	-6.98	116.81	120.30
36	1	245	U	N3-C2-O2	-6.98	117.31	122.20
36	1	1797	A	N7-C8-N9	-6.98	110.31	113.80
36	1	2216	G	C4-C5-C6	6.98	122.99	118.80
36	1	3121	U	O5'-P-OP2	6.98	119.08	110.70
85	5	935	U	OP1-P-OP2	6.98	130.07	119.60
85	5	1367	G	C6-N1-C2	6.98	129.29	125.10
85	5	1575	A	C5-C6-N6	-6.98	118.12	123.70
85	5	1859	A	C6-N1-C2	-6.98	114.41	118.60
1	2	491	C	C6-N1-C2	-6.98	117.51	120.30
36	1	54	C	N1-C2-O2	-6.98	114.71	118.90
36	1	171	G	C8-N9-C4	6.98	109.19	106.40
36	1	219	A	O5'-P-OP2	-6.98	99.42	105.70
36	1	518	G	O5'-P-OP1	6.98	119.07	110.70
36	1	652	G	O5'-P-OP2	-6.98	99.42	105.70
36	1	899	U	OP2-P-O3'	6.98	120.55	105.20
36	1	1487	G	C6-N1-C2	-6.98	120.91	125.10
36	1	2366	C	OP1-P-OP2	6.98	130.07	119.60
36	1	3270	U	O5'-P-OP2	6.98	119.07	110.70
85	5	401	U	N1-C2-N3	6.98	119.09	114.90
85	5	1488	G	N1-C2-N2	6.98	122.48	116.20
85	5	1609	C	O5'-P-OP1	6.98	119.07	110.70
85	5	1908	A	N9-C4-C5	6.98	108.59	105.80
85	5	2599	U	O4'-C1'-N1	-6.98	102.62	108.20
77	q1	21	ARG	NE-CZ-NH2	6.98	123.79	120.30
1	2	617	U	N3-C4-C5	6.98	118.79	114.60
1	2	780	G	N1-C2-N3	6.98	128.09	123.90
1	2	957	A	N7-C8-N9	-6.98	110.31	113.80
1	2	1641	G	N1-C2-N3	6.98	128.09	123.90
1	2	1808	A	C2-N3-C4	6.98	114.09	110.60
36	1	688	G	C5-N7-C8	6.98	107.79	104.30
36	1	1449	A	C5-C6-N6	6.98	129.28	123.70
36	1	2395	G	C2-N3-C4	-6.98	108.41	111.90
36	1	2704	A	O5'-P-OP1	-6.98	99.42	105.70
80	6	532	U	C5-C4-O4	6.98	130.09	125.90
80	6	1698	G	N3-C4-N9	6.98	130.19	126.00
85	5	235	A	C8-N9-C4	6.98	108.59	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1169	A	O5'-P-OP1	6.98	119.07	110.70
85	5	2208	A	N1-C2-N3	6.98	132.79	129.30
1	2	114	C	C4-C5-C6	6.97	120.89	117.40
1	2	267	U	C2-N3-C4	-6.97	122.81	127.00
1	2	1076	A	N1-C2-N3	6.97	132.79	129.30
1	2	1559	A	C8-N9-C4	-6.97	103.01	105.80
36	1	653	A	C2-N3-C4	-6.97	107.11	110.60
36	1	843	A	N3-C4-C5	6.97	131.68	126.80
36	1	953	G	C2-N3-C4	-6.97	108.41	111.90
36	1	2763	U	N1-C2-O2	6.97	127.68	122.80
36	1	3051	U	C5-C6-N1	6.97	126.19	122.70
46	L9	62	ARG	NE-CZ-NH1	6.97	123.79	120.30
80	6	432	G	N1-C2-N3	6.97	128.09	123.90
80	6	589	C	C4-C5-C6	-6.97	113.91	117.40
80	6	1116	A	N9-C4-C5	-6.97	103.01	105.80
80	6	1768	G	N1-C2-N3	6.97	128.08	123.90
85	5	560	G	C8-N9-C4	-6.97	103.61	106.40
85	5	1310	G	OP1-P-O3'	6.97	120.55	105.20
85	5	1331	U	C4-C5-C6	6.97	123.88	119.70
85	5	1350	A	C5-C6-N1	-6.97	114.21	117.70
85	5	1492	G	C6-C5-N7	-6.97	126.22	130.40
85	5	1823	A	O5'-P-OP1	-6.97	99.42	105.70
85	5	2620	G	OP2-P-O3'	6.97	120.55	105.20
85	5	3047	U	C5-C6-N1	-6.97	119.21	122.70
1	2	778	U	C5-C6-N1	-6.97	119.21	122.70
1	2	1218	C	C6-N1-C2	6.97	123.09	120.30
36	1	1013	G	C5-C6-N1	-6.97	108.01	111.50
36	1	1306	G	C2-N3-C4	-6.97	108.41	111.90
36	1	1521	G	C5-C6-N1	-6.97	108.01	111.50
36	1	1614	C	N3-C2-O2	-6.97	117.02	121.90
36	1	1658	G	N9-C4-C5	6.97	108.19	105.40
36	1	2278	C	OP1-P-O3'	6.97	120.54	105.20
37	3	46	A	N9-C4-C5	6.97	108.59	105.80
37	3	107	C	N1-C2-O2	6.97	123.08	118.90
80	6	319	U	N3-C4-C5	-6.97	110.42	114.60
80	6	534	A	N3-C4-C5	-6.97	121.92	126.80
80	6	687	G	N1-C6-O6	6.97	124.08	119.90
85	5	71	A	N1-C2-N3	6.97	132.79	129.30
85	5	1431	G	C5-C6-O6	-6.97	124.42	128.60
85	5	1586	G	C5-N7-C8	6.97	107.79	104.30
85	5	1625	A	N3-C4-C5	6.97	131.68	126.80
85	5	1808	G	O5'-P-OP2	-6.97	99.42	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2146	C	C6-N1-C2	-6.97	117.51	120.30
85	5	2716	U	N3-C4-C5	-6.97	110.42	114.60
85	5	2751	G	N1-C6-O6	6.97	124.08	119.90
57	n1	10	ARG	NE-CZ-NH1	-6.97	116.81	120.30
1	2	109	G	C6-C5-N7	-6.97	126.22	130.40
1	2	195	G	C5-C6-O6	6.97	132.78	128.60
36	1	1174	G	N3-C2-N2	6.97	124.78	119.90
36	1	2533	G	C8-N9-C4	6.97	109.19	106.40
80	6	17	C	C6-N1-C2	-6.97	117.51	120.30
80	6	148	A	C5-C6-N1	6.97	121.19	117.70
80	6	1672	G	C6-C5-N7	6.97	134.58	130.40
85	5	1006	A	C6-C5-N7	6.97	137.18	132.30
85	5	1294	A	N7-C8-N9	6.97	117.29	113.80
85	5	2675	C	N3-C4-N4	6.97	122.88	118.00
85	5	2698	G	N9-C4-C5	6.97	108.19	105.40
1	2	550	A	O5'-P-OP1	-6.97	99.43	105.70
1	2	586	G	C5-N7-C8	6.97	107.78	104.30
1	2	1179	A	P-O3'-C3'	6.97	128.06	119.70
36	1	377	A	C5-C6-N1	6.97	121.19	117.70
36	1	1045	C	OP2-P-O3'	6.97	120.53	105.20
36	1	1477	A	C6-C5-N7	-6.97	127.42	132.30
36	1	3161	C	C2-N3-C4	6.97	123.38	119.90
36	1	3342	A	N9-C4-C5	-6.97	103.01	105.80
38	4	63	G	C6-N1-C2	-6.97	120.92	125.10
80	6	877	G	OP1-P-OP2	6.97	130.05	119.60
85	5	325	A	N9-C4-C5	6.97	108.59	105.80
85	5	1451	C	C6-N1-C1'	-6.97	112.44	120.80
85	5	1880	U	N3-C2-O2	-6.97	117.32	122.20
85	5	2120	A	C5-C6-N6	6.97	129.28	123.70
85	5	3378	C	C4-C5-C6	-6.97	113.92	117.40
38	8	38	U	C6-N1-C2	-6.97	116.82	121.00
1	2	419	G	C5-C6-N1	6.97	114.98	111.50
36	1	103	G	C8-N9-C4	-6.97	103.61	106.40
36	1	754	G	C4-C5-N7	6.97	113.59	110.80
36	1	1791	C	C6-N1-C2	-6.97	117.51	120.30
36	1	2292	U	C5-C4-O4	-6.97	121.72	125.90
80	6	1133	A	N9-C4-C5	-6.97	103.01	105.80
85	5	1200	A	C6-C5-N7	-6.97	127.42	132.30
85	5	2130	G	O5'-P-OP1	6.97	119.06	110.70
85	5	2738	A	C5-C6-N1	6.97	121.18	117.70
85	5	3329	U	N1-C2-O2	-6.97	117.92	122.80
49	m3	91	ARG	NE-CZ-NH1	6.97	123.78	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	413	U	N1-C2-O2	-6.97	117.92	122.80
36	1	124	U	N1-C2-N3	6.97	119.08	114.90
36	1	125	C	C5-C6-N1	-6.97	117.52	121.00
36	1	1005	G	C8-N9-C1'	-6.97	117.94	127.00
36	1	2120	A	C8-N9-C4	-6.97	103.01	105.80
37	3	90	U	OP1-P-OP2	-6.97	109.15	119.60
38	4	146	U	O4'-C1'-N1	-6.97	102.63	108.20
49	M3	15	ARG	NE-CZ-NH2	-6.97	116.82	120.30
80	6	1153	G	N1-C2-N3	6.97	128.08	123.90
85	5	729	C	C5-C6-N1	6.97	124.48	121.00
85	5	1654	A	OP1-P-OP2	-6.97	109.15	119.60
1	2	886	U	N3-C4-O4	6.96	124.28	119.40
36	1	342	A	C8-N9-C4	-6.96	103.01	105.80
36	1	1346	G	N3-C4-C5	6.96	132.08	128.60
36	1	2247	G	C2-N3-C4	-6.96	108.42	111.90
36	1	2372	A	C5-C6-N6	-6.96	118.13	123.70
38	4	92	A	O5'-P-OP1	6.96	119.06	110.70
80	6	303	U	N3-C2-O2	-6.96	117.33	122.20
80	6	829	A	C8-N9-C4	-6.96	103.01	105.80
80	6	902	G	C8-N9-C4	-6.96	103.61	106.40
80	6	964	U	C2-N3-C4	-6.96	122.82	127.00
80	6	1519	U	N1-C2-O2	6.96	127.67	122.80
85	5	333	G	C5-C6-N1	-6.96	108.02	111.50
85	5	894	G	C5-N7-C8	-6.96	100.82	104.30
85	5	955	U	C2-N3-C4	-6.96	122.82	127.00
85	5	1425	U	N3-C4-C5	-6.96	110.42	114.60
85	5	2134	G	N3-C4-C5	6.96	132.08	128.60
85	5	2345	A	N7-C8-N9	6.96	117.28	113.80
85	5	2575	G	N1-C6-O6	-6.96	115.72	119.90
85	5	2635	A	N7-C8-N9	6.96	117.28	113.80
85	5	2747	A	C5-C6-N1	6.96	121.18	117.70
85	5	2815	G	N3-C4-C5	-6.96	125.12	128.60
85	5	2913	C	C4-C5-C6	-6.96	113.92	117.40
85	5	3057	U	OP1-P-O3'	6.96	120.52	105.20
36	1	392	G	C6-N1-C2	6.96	129.28	125.10
36	1	1218	U	O5'-P-OP1	6.96	119.06	110.70
36	1	1736	G	N1-C2-N3	6.96	128.08	123.90
36	1	2934	A	OP1-P-OP2	6.96	130.04	119.60
80	6	319	U	C2-N3-C4	6.96	131.18	127.00
80	6	702	G	C4-C5-N7	6.96	113.58	110.80
80	6	884	A	N1-C6-N6	-6.96	114.42	118.60
80	6	1201	G	N3-C4-C5	6.96	132.08	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1157	G	C5-C6-N1	6.96	114.98	111.50
85	5	1594	A	C6-N1-C2	-6.96	114.42	118.60
85	5	1917	C	N3-C4-C5	-6.96	119.11	121.90
85	5	2663	G	C5-N7-C8	-6.96	100.82	104.30
85	5	2727	A	C8-N9-C4	-6.96	103.02	105.80
85	5	2842	U	N3-C4-C5	-6.96	110.42	114.60
1	2	1582	C	C2-N3-C4	-6.96	116.42	119.90
36	1	522	A	C8-N9-C4	6.96	108.58	105.80
36	1	1790	G	N9-C4-C5	-6.96	102.61	105.40
80	6	175	G	C5-C6-N1	6.96	114.98	111.50
80	6	385	A	C6-N1-C2	-6.96	114.42	118.60
80	6	576	G	C4-C5-N7	6.96	113.58	110.80
85	5	1447	G	C6-N1-C2	-6.96	120.92	125.10
85	5	1945	A	N7-C8-N9	6.96	117.28	113.80
85	5	2373	A	C2-N3-C4	6.96	114.08	110.60
1	2	370	A	N3-C4-C5	-6.96	121.93	126.80
1	2	817	G	C5-C6-O6	-6.96	124.42	128.60
36	1	139	G	N7-C8-N9	-6.96	109.62	113.10
36	1	1355	A	C4-C5-N7	-6.96	107.22	110.70
36	1	1505	C	C6-N1-C2	6.96	123.08	120.30
80	6	384	G	C5-C6-N1	6.96	114.98	111.50
85	5	180	C	O5'-P-OP1	6.96	119.05	110.70
85	5	1011	A	N7-C8-N9	6.96	117.28	113.80
85	5	1035	G	N1-C2-N2	-6.96	109.94	116.20
85	5	1520	G	C2-N3-C4	6.96	115.38	111.90
85	5	1851	G	C2-N3-C4	-6.96	108.42	111.90
85	5	3159	C	C4-C5-C6	6.96	120.88	117.40
37	7	20	A	N7-C8-N9	-6.96	110.32	113.80
36	1	264	G	N3-C4-N9	-6.96	121.83	126.00
36	1	326	U	C2-N3-C4	6.96	131.18	127.00
36	1	515	C	C6-N1-C2	-6.96	117.52	120.30
36	1	626	U	N3-C4-O4	6.96	124.27	119.40
36	1	708	G	C6-C5-N7	-6.96	126.22	130.40
36	1	908	G	C6-C5-N7	-6.96	126.22	130.40
36	1	1299	U	C4-C5-C6	-6.96	115.53	119.70
36	1	1511	U	N1-C2-O2	-6.96	117.93	122.80
36	1	3116	G	OP1-P-O3'	6.96	120.51	105.20
36	1	3347	A	C5-C6-N1	6.96	121.18	117.70
80	6	498	G	C8-N9-C4	-6.96	103.62	106.40
80	6	551	G	N3-C4-C5	6.96	132.08	128.60
80	6	1203	A	C8-N9-C4	-6.96	103.02	105.80
80	6	1293	U	C2-N3-C4	6.96	131.18	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1521	G	N3-C4-C5	-6.96	125.12	128.60
85	5	170	G	N3-C4-C5	-6.96	125.12	128.60
85	5	369	A	N1-C6-N6	6.96	122.78	118.60
85	5	616	G	C4-C5-C6	6.96	122.97	118.80
85	5	1086	C	C4-C5-C6	6.96	120.88	117.40
85	5	1813	A	C2-N3-C4	6.96	114.08	110.60
85	5	1925	U	N1-C2-O2	-6.96	117.93	122.80
85	5	2335	G	N9-C4-C5	6.96	108.18	105.40
85	5	2881	C	C2-N3-C4	-6.96	116.42	119.90
85	5	3357	U	N3-C2-O2	-6.96	117.33	122.20
38	8	56	G	O5'-P-OP1	6.96	119.05	110.70
36	1	964	G	C2-N3-C4	6.96	115.38	111.90
36	1	1053	A	O5'-P-OP2	-6.96	99.44	105.70
36	1	1209	G	N1-C2-N2	6.96	122.46	116.20
36	1	1291	A	N1-C2-N3	6.96	132.78	129.30
36	1	1405	U	N3-C2-O2	6.96	127.07	122.20
36	1	1495	U	C5-C4-O4	6.96	130.07	125.90
36	1	2366	C	O5'-P-OP1	-6.96	99.44	105.70
36	1	2685	C	O5'-P-OP1	6.96	119.05	110.70
36	1	2704	A	OP2-P-O3'	6.96	120.50	105.20
37	3	53	U	O5'-P-OP2	-6.96	99.44	105.70
80	6	421	A	C8-N9-C4	6.96	108.58	105.80
80	6	568	G	C5-C6-N1	6.96	114.98	111.50
80	6	761	G	C5-C6-N1	6.96	114.98	111.50
80	6	919	A	C6-C5-N7	-6.96	127.43	132.30
80	6	1654	G	C4-C5-C6	6.96	122.97	118.80
85	5	366	A	OP1-P-OP2	-6.96	109.17	119.60
85	5	894	G	N3-C4-N9	-6.96	121.83	126.00
85	5	932	U	OP1-P-OP2	-6.96	109.17	119.60
85	5	1349	G	N1-C2-N3	-6.96	119.73	123.90
85	5	1906	G	O5'-P-OP1	-6.96	99.44	105.70
85	5	2242	A	C6-N1-C2	-6.96	114.43	118.60
85	5	2680	A	N3-C4-C5	-6.96	121.93	126.80
37	7	93	C	N1-C2-N3	6.96	124.07	119.20
36	1	414	U	C5-C6-N1	-6.96	119.22	122.70
36	1	742	G	N9-C4-C5	6.96	108.18	105.40
36	1	1292	C	C6-N1-C2	6.96	123.08	120.30
80	6	1154	G	C8-N9-C4	-6.96	103.62	106.40
80	6	1218	G	N7-C8-N9	-6.96	109.62	113.10
80	6	1281	G	C4-C5-N7	6.96	113.58	110.80
80	6	1573	A	OP2-P-O3'	6.96	120.50	105.20
85	5	21	G	N1-C6-O6	6.96	124.07	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	583	G	C6-N1-C2	6.96	129.27	125.10
85	5	1269	U	N1-C2-N3	6.96	119.07	114.90
85	5	1385	C	C5-C6-N1	6.96	124.48	121.00
85	5	3063	C	C6-N1-C2	-6.96	117.52	120.30
36	1	175	C	N3-C2-O2	6.95	126.77	121.90
36	1	1487	G	C2-N3-C4	6.95	115.38	111.90
36	1	1713	G	O5'-P-OP1	-6.95	99.44	105.70
36	1	2702	A	C2-N3-C4	-6.95	107.12	110.60
80	6	436	A	N1-C2-N3	6.95	132.78	129.30
85	5	392	G	O4'-C1'-N9	6.95	113.76	108.20
85	5	672	A	N1-C2-N3	-6.95	125.82	129.30
85	5	804	C	N3-C2-O2	6.95	126.77	121.90
85	5	1298	C	O5'-P-OP2	-6.95	99.44	105.70
85	5	2147	A	C2-N3-C4	6.95	114.08	110.60
85	5	2150	G	C5-C6-O6	-6.95	124.43	128.60
85	5	2605	G	C5-N7-C8	-6.95	100.82	104.30
88	n4	48	ARG	NE-CZ-NH2	-6.95	116.82	120.30
1	2	1519	G	N3-C4-C5	-6.95	125.12	128.60
36	1	670	C	OP2-P-O3'	6.95	120.49	105.20
36	1	754	G	C5-C6-N1	-6.95	108.02	111.50
36	1	2107	A	N1-C6-N6	-6.95	114.43	118.60
36	1	2370	G	C8-N9-C4	6.95	109.18	106.40
80	6	1147	A	O5'-P-OP1	-6.95	99.44	105.70
85	5	2952	G	C5-C6-O6	-6.95	124.43	128.60
1	2	1088	C	C5-C6-N1	6.95	124.47	121.00
36	1	51	A	C5-C6-N1	6.95	121.18	117.70
36	1	814	U	O5'-P-OP2	-6.95	99.44	105.70
36	1	1496	C	C5-C6-N1	6.95	124.48	121.00
36	1	2950	G	C4-C5-N7	6.95	113.58	110.80
38	4	110	C	C4-C5-C6	6.95	120.88	117.40
80	6	390	G	O5'-P-OP2	-6.95	99.44	105.70
80	6	772	G	C8-N9-C4	-6.95	103.62	106.40
80	6	957	G	C6-C5-N7	-6.95	126.23	130.40
80	6	1115	U	N1-C2-O2	-6.95	117.94	122.80
80	6	1789	G	C5-C6-N1	6.95	114.97	111.50
85	5	366	A	C5-N7-C8	6.95	107.38	103.90
85	5	826	G	C5-C6-N1	-6.95	108.03	111.50
85	5	1533	U	O5'-P-OP2	-6.95	99.44	105.70
85	5	2409	G	N3-C4-C5	-6.95	125.12	128.60
85	5	2800	G	C4-C5-N7	-6.95	108.02	110.80
85	5	2895	G	C6-N1-C2	-6.95	120.93	125.10
38	8	155	A	C5-C6-N1	6.95	121.17	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	349	U	O5'-P-OP2	-6.95	99.45	105.70
36	1	34	A	N1-C2-N3	6.95	132.77	129.30
36	1	602	A	N7-C8-N9	-6.95	110.33	113.80
36	1	1534	A	N1-C6-N6	-6.95	114.43	118.60
36	1	2133	U	N1-C2-O2	-6.95	117.94	122.80
36	1	2815	G	C5-C6-N1	-6.95	108.03	111.50
36	1	3045	G	C5-C6-N1	-6.95	108.03	111.50
36	1	3080	G	C6-N1-C2	-6.95	120.93	125.10
36	1	3336	A	N1-C2-N3	6.95	132.77	129.30
36	1	3376	A	C6-N1-C2	-6.95	114.43	118.60
80	6	1164	G	N3-C4-C5	6.95	132.07	128.60
80	6	1644	C	N3-C2-O2	-6.95	117.04	121.90
80	6	1755	A	OP1-P-OP2	6.95	130.02	119.60
85	5	199	A	C5-C6-N6	6.95	129.26	123.70
85	5	224	C	O5'-P-OP2	-6.95	99.45	105.70
85	5	1054	A	C2-N3-C4	-6.95	107.12	110.60
85	5	1807	G	C4-C5-C6	6.95	122.97	118.80
85	5	2124	G	N9-C4-C5	6.95	108.18	105.40
85	5	2298	U	C5-C6-N1	6.95	126.17	122.70
85	5	2305	G	C8-N9-C4	-6.95	103.62	106.40
85	5	2597	U	C6-N1-C2	6.95	125.17	121.00
85	5	2844	C	C4-C5-C6	-6.95	113.92	117.40
85	5	2917	G	C5-C6-O6	-6.95	124.43	128.60
1	2	408	C	O5'-P-OP1	6.95	119.04	110.70
1	2	1084	G	N1-C6-O6	-6.95	115.73	119.90
1	2	1195	G	C5-N7-C8	-6.95	100.83	104.30
36	1	371	G	C4-C5-C6	6.95	122.97	118.80
36	1	656	A	C4-C5-N7	6.95	114.17	110.70
36	1	668	G	O5'-P-OP2	-6.95	99.45	105.70
36	1	2961	G	C2-N3-C4	-6.95	108.43	111.90
36	1	3374	U	C5-C4-O4	-6.95	121.73	125.90
38	4	43	A	C2-N3-C4	6.95	114.07	110.60
38	4	157	U	N1-C2-O2	6.95	127.66	122.80
80	6	11	A	N9-C4-C5	6.95	108.58	105.80
85	5	1312	C	O5'-P-OP1	6.95	119.04	110.70
85	5	1331	U	C5-C6-N1	-6.95	119.23	122.70
85	5	1483	G	O5'-P-OP1	-6.95	99.45	105.70
37	7	57	G	N3-C4-C5	6.95	132.07	128.60
38	8	42	G	C8-N9-C4	6.95	109.18	106.40
80	6	1359	C	C6-N1-C2	6.95	123.08	120.30
80	6	1607	G	C5-C6-O6	6.95	132.77	128.60
80	6	1637	C	C5-C6-N1	-6.95	117.53	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2318	U	N1-C2-O2	-6.95	117.94	122.80
85	5	3342	A	N1-C6-N6	6.95	122.77	118.60
1	2	800	A	C5-C6-N1	-6.94	114.23	117.70
36	1	1045	C	OP1-P-OP2	-6.94	109.18	119.60
36	1	2322	C	O5'-P-OP1	6.94	119.03	110.70
36	1	2784	G	C5-C6-N1	6.94	114.97	111.50
38	4	17	A	C6-N1-C2	-6.94	114.43	118.60
85	5	2836	C	O4'-C1'-N1	6.94	113.75	108.20
38	8	84	C	N1-C2-O2	6.94	123.07	118.90
1	2	445	A	C2-N3-C4	6.94	114.07	110.60
1	2	540	G	C5-C6-N1	6.94	114.97	111.50
1	2	1534	U	C5-C4-O4	-6.94	121.73	125.90
36	1	161	G	N7-C8-N9	-6.94	109.63	113.10
36	1	281	G	C5-N7-C8	-6.94	100.83	104.30
36	1	2654	C	N1-C2-O2	6.94	123.07	118.90
36	1	2702	A	C5-C6-N1	-6.94	114.23	117.70
36	1	3151	U	O5'-P-OP2	-6.94	99.45	105.70
38	4	13	A	C4-C5-C6	6.94	120.47	117.00
80	6	483	A	N1-C6-N6	6.94	122.77	118.60
85	5	805	G	N1-C2-N2	-6.94	109.95	116.20
85	5	1925	U	C6-N1-C2	-6.94	116.83	121.00
85	5	2721	A	C5-N7-C8	-6.94	100.43	103.90
85	5	3085	G	N1-C2-N3	6.94	128.07	123.90
50	m4	4	ASP	CB-CG-OD1	-6.94	112.05	118.30
1	2	1065	C	N3-C2-O2	-6.94	117.04	121.90
1	2	1132	G	C8-N9-C4	-6.94	103.62	106.40
36	1	292	U	O5'-P-OP1	6.94	119.03	110.70
36	1	312	C	C4-C5-C6	6.94	120.87	117.40
36	1	370	U	N1-C2-O2	6.94	127.66	122.80
36	1	377	A	N3-C4-C5	-6.94	121.94	126.80
36	1	408	A	C8-N9-C4	-6.94	103.02	105.80
36	1	585	A	C8-N9-C4	6.94	108.58	105.80
36	1	971	G	N1-C2-N3	-6.94	119.74	123.90
36	1	1175	C	OP2-P-O3'	6.94	120.47	105.20
36	1	1385	C	N1-C2-O2	-6.94	114.74	118.90
36	1	2142	A	C6-N1-C2	-6.94	114.44	118.60
36	1	2259	A	C6-N1-C2	-6.94	114.44	118.60
36	1	3054	U	C2-N3-C4	-6.94	122.83	127.00
36	1	3105	U	OP1-P-O3'	6.94	120.47	105.20
37	3	13	A	C5-C6-N1	-6.94	114.23	117.70
80	6	20	G	C5-C6-O6	6.94	132.76	128.60
80	6	1785	U	C6-N1-C2	6.94	125.17	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	46	U	N1-C2-O2	-6.94	117.94	122.80
85	5	219	A	C6-N1-C2	6.94	122.76	118.60
85	5	2429	G	C4-C5-C6	6.94	122.97	118.80
85	5	3366	G	C6-N1-C2	-6.94	120.94	125.10
38	8	31	G	OP1-P-OP2	-6.94	109.19	119.60
38	8	90	U	C6-N1-C2	6.94	125.17	121.00
38	8	156	U	C4-C5-C6	-6.94	115.53	119.70
1	2	443	C	OP1-P-O3'	6.94	120.47	105.20
36	1	333	G	C5-C6-O6	-6.94	124.44	128.60
36	1	1139	G	C5-C6-O6	6.94	132.76	128.60
36	1	1312	C	OP1-P-OP2	-6.94	109.19	119.60
36	1	2279	A	C2-N3-C4	6.94	114.07	110.60
62	N6	21	THR	CA-CB-CG2	-6.94	102.69	112.40
80	6	151	G	C5-C6-O6	6.94	132.76	128.60
80	6	619	A	N7-C8-N9	6.94	117.27	113.80
80	6	641	G	C8-N9-C4	-6.94	103.62	106.40
80	6	1646	C	C5-C6-N1	6.94	124.47	121.00
85	5	1775	G	N9-C4-C5	-6.94	102.62	105.40
85	5	3094	A	C4-C5-C6	6.94	120.47	117.00
1	2	209	U	N3-C2-O2	6.94	127.06	122.20
1	2	704	U	O5'-P-OP1	-6.94	99.46	105.70
36	1	205	C	N1-C2-N3	6.94	124.06	119.20
36	1	326	U	OP2-P-O3'	6.94	120.46	105.20
36	1	1172	G	N3-C4-C5	6.94	132.07	128.60
36	1	1421	G	N9-C4-C5	-6.94	102.62	105.40
36	1	1744	G	N1-C6-O6	-6.94	115.74	119.90
36	1	2923	U	N3-C2-O2	-6.94	117.34	122.20
37	3	49	G	N1-C2-N3	-6.94	119.74	123.90
80	6	147	A	C8-N9-C4	-6.94	103.03	105.80
80	6	908	U	O5'-P-OP2	-6.94	99.46	105.70
85	5	223	U	N1-C2-N3	6.94	119.06	114.90
85	5	569	A	C4-C5-N7	-6.94	107.23	110.70
85	5	578	A	C5-C6-N6	-6.94	118.15	123.70
85	5	674	G	C5-C6-O6	6.94	132.76	128.60
85	5	969	C	OP1-P-OP2	6.94	130.01	119.60
85	5	1012	G	C6-C5-N7	-6.94	126.24	130.40
85	5	1058	U	C4-C5-C6	6.94	123.86	119.70
85	5	1130	A	N7-C8-N9	-6.94	110.33	113.80
85	5	1363	A	O5'-P-OP1	6.94	119.02	110.70
85	5	2254	U	N3-C4-C5	-6.94	110.44	114.60
85	5	2334	U	N1-C2-N3	6.94	119.06	114.90
85	5	2377	G	C2-N3-C4	-6.94	108.43	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2662	G	C4-C5-C6	6.94	122.96	118.80
85	5	2753	G	C6-C5-N7	-6.94	126.24	130.40
1	2	111	U	C5-C6-N1	6.94	126.17	122.70
1	2	1229	C	C2-N3-C4	-6.94	116.43	119.90
36	1	335	G	C8-N9-C4	-6.94	103.63	106.40
36	1	1747	G	N3-C4-C5	6.94	132.07	128.60
36	1	2551	U	OP1-P-OP2	6.94	130.00	119.60
36	1	2918	G	N9-C4-C5	6.94	108.17	105.40
85	5	1294	A	C8-N9-C4	-6.94	103.03	105.80
36	1	120	G	C5-C6-N1	6.93	114.97	111.50
36	1	921	A	O5'-P-OP1	-6.93	99.46	105.70
36	1	976	U	C6-N1-C2	6.93	125.16	121.00
36	1	1857	C	C6-N1-C2	6.93	123.07	120.30
36	1	2896	A	C8-N9-C4	6.93	108.57	105.80
36	1	2966	G	O5'-P-OP2	-6.93	99.46	105.70
36	1	3091	A	C5-C6-N1	-6.93	114.23	117.70
51	M5	152	CYS	CA-CB-SG	-6.93	101.52	114.00
85	5	32	U	N3-C2-O2	-6.93	117.35	122.20
85	5	236	G	N1-C2-N3	-6.93	119.74	123.90
85	5	442	G	N3-C2-N2	6.93	124.75	119.90
85	5	929	A	C4-C5-N7	-6.93	107.23	110.70
85	5	1048	A	C6-N1-C2	6.93	122.76	118.60
85	5	1606	U	C4-C5-C6	6.93	123.86	119.70
85	5	2684	C	N1-C2-N3	6.93	124.05	119.20
43	l6	137	ASP	CB-CG-OD1	-6.93	112.06	118.30
53	m7	53	ASP	CB-CG-OD1	-6.93	112.06	118.30
1	2	228	G	C5-C6-O6	-6.93	124.44	128.60
36	1	1203	A	C5-C6-N1	6.93	121.17	117.70
36	1	1216	C	C6-N1-C2	-6.93	117.53	120.30
36	1	1329	U	C4-C5-C6	6.93	123.86	119.70
36	1	1339	C	N1-C2-N3	6.93	124.05	119.20
36	1	1481	A	N1-C2-N3	6.93	132.77	129.30
36	1	1935	G	N1-C2-N2	-6.93	109.96	116.20
80	6	280	U	C6-N1-C2	6.93	125.16	121.00
80	6	432	G	C5-C6-O6	6.93	132.76	128.60
85	5	267	G	C5-C6-O6	-6.93	124.44	128.60
85	5	327	A	C5-C6-N6	-6.93	118.15	123.70
85	5	757	C	N3-C2-O2	6.93	126.75	121.90
85	5	1168	U	C6-N1-C2	-6.93	116.84	121.00
37	7	64	A	OP2-P-O3'	6.93	120.45	105.20
37	7	93	C	N3-C4-N4	6.93	122.85	118.00
1	2	78	A	N1-C6-N6	-6.93	114.44	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	879	U	OP1-P-OP2	6.93	130.00	119.60
36	1	1903	U	C2-N1-C1'	6.93	126.02	117.70
36	1	2415	C	C5-C4-N4	6.93	125.05	120.20
36	1	3242	G	N7-C8-N9	-6.93	109.63	113.10
80	6	1284	C	N1-C2-N3	6.93	124.05	119.20
85	5	968	G	N3-C4-N9	6.93	130.16	126.00
85	5	1668	G	N7-C8-N9	-6.93	109.64	113.10
85	5	2262	A	C8-N9-C4	6.93	108.57	105.80
85	5	2916	U	C5-C4-O4	-6.93	121.74	125.90
85	5	2997	G	N9-C4-C5	-6.93	102.63	105.40
37	7	94	C	C2-N3-C4	-6.93	116.43	119.90
38	8	60	U	C5-C4-O4	-6.93	121.74	125.90
59	n3	22	ILE	CG1-CB-CG2	-6.93	96.15	111.40
1	2	278	U	C5-C6-N1	6.93	126.17	122.70
36	1	907	G	N1-C6-O6	-6.93	115.74	119.90
36	1	1164	G	C4-C5-C6	6.93	122.96	118.80
36	1	1501	U	C6-N1-C2	6.93	125.16	121.00
36	1	2408	U	N1-C2-N3	6.93	119.06	114.90
36	1	2519	A	O5'-P-OP2	6.93	119.02	110.70
36	1	2883	U	C5-C6-N1	6.93	126.17	122.70
36	1	2958	A	C6-N1-C2	-6.93	114.44	118.60
36	1	3197	G	N3-C2-N2	-6.93	115.05	119.90
36	1	3307	A	C2-N3-C4	-6.93	107.14	110.60
80	6	472	U	C5-C6-N1	-6.93	119.23	122.70
85	5	1510	G	N1-C2-N2	6.93	122.44	116.20
85	5	1712	G	C8-N9-C4	-6.93	103.63	106.40
85	5	2784	G	C6-C5-N7	-6.93	126.24	130.40
85	5	2930	A	O5'-P-OP1	-6.93	99.46	105.70
37	7	91	G	N9-C4-C5	6.93	108.17	105.40
36	1	579	G	C4-C5-N7	6.93	113.57	110.80
36	1	693	A	N7-C8-N9	6.93	117.26	113.80
36	1	2254	U	N3-C4-O4	6.93	124.25	119.40
36	1	3304	U	C5-C4-O4	6.93	130.06	125.90
85	5	38	U	N3-C2-O2	6.93	127.05	122.20
85	5	431	U	OP2-P-O3'	6.93	120.44	105.20
85	5	1297	C	N3-C4-N4	6.93	122.85	118.00
85	5	2750	U	C5-C4-O4	-6.93	121.74	125.90
1	2	836	G	C2-N3-C4	-6.93	108.44	111.90
1	2	845	A	C5-N7-C8	6.93	107.36	103.90
36	1	55	G	C8-N9-C1'	-6.93	118.00	127.00
36	1	578	A	N1-C2-N3	6.93	132.76	129.30
36	1	579	G	OP1-P-OP2	6.93	129.99	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	794	U	C5-C6-N1	-6.93	119.24	122.70
36	1	2306	C	N1-C2-N3	-6.93	114.35	119.20
37	3	91	G	N1-C2-N2	6.93	122.43	116.20
80	6	605	A	C8-N9-C4	-6.93	103.03	105.80
80	6	1662	G	C4-C5-N7	-6.93	108.03	110.80
85	5	143	G	N9-C4-C5	-6.93	102.63	105.40
85	5	732	C	N3-C4-C5	6.93	124.67	121.90
85	5	797	U	C4-C5-C6	6.93	123.86	119.70
85	5	992	A	C5-C6-N1	-6.93	114.24	117.70
85	5	1336	U	O5'-P-OP2	6.93	119.01	110.70
85	5	2146	C	C4-C5-C6	6.93	120.86	117.40
85	5	2363	A	C6-N1-C2	-6.93	114.44	118.60
85	5	3018	C	N1-C2-N3	6.93	124.05	119.20
1	2	994	G	C5-C6-O6	-6.92	124.45	128.60
36	1	279	U	C6-N1-C2	-6.92	116.85	121.00
36	1	373	A	C2-N3-C4	6.92	114.06	110.60
36	1	425	G	C5-N7-C8	-6.92	100.84	104.30
36	1	662	U	N3-C2-O2	6.92	127.05	122.20
36	1	976	U	N3-C4-C5	6.92	118.75	114.60
36	1	1052	U	N3-C4-C5	6.92	118.75	114.60
36	1	2690	G	C5-N7-C8	-6.92	100.84	104.30
80	6	340	U	C6-N1-C1'	6.92	130.90	121.20
80	6	1739	C	C6-N1-C2	-6.92	117.53	120.30
85	5	142	C	N3-C4-C5	6.92	124.67	121.90
85	5	197	G	N1-C2-N2	-6.92	109.97	116.20
85	5	674	G	C4-C5-N7	-6.92	108.03	110.80
85	5	885	U	C4-C5-C6	-6.92	115.55	119.70
85	5	921	A	C5-C6-N6	-6.92	118.16	123.70
85	5	1164	G	C4-C5-N7	6.92	113.57	110.80
36	1	743	C	C5-C4-N4	6.92	125.05	120.20
36	1	967	A	C5-C6-N1	-6.92	114.24	117.70
36	1	1905	G	C2-N3-C4	-6.92	108.44	111.90
36	1	2705	A	C2-N3-C4	6.92	114.06	110.60
37	3	28	C	N3-C4-C5	-6.92	119.13	121.90
85	5	207	U	C2-N3-C4	-6.92	122.85	127.00
85	5	691	A	N9-C4-C5	6.92	108.57	105.80
85	5	3189	G	OP1-P-OP2	-6.92	109.22	119.60
1	2	1382	C	N3-C4-N4	6.92	122.85	118.00
36	1	937	G	C5-C6-N1	6.92	114.96	111.50
36	1	1157	G	C4-C5-C6	6.92	122.95	118.80
36	1	1440	G	N9-C4-C5	-6.92	102.63	105.40
36	1	1770	G	N1-C2-N3	6.92	128.05	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1899	G	O5'-P-OP1	-6.92	99.47	105.70
38	4	80	A	C4-C5-N7	-6.92	107.24	110.70
80	6	577	G	C5-C6-O6	-6.92	124.45	128.60
80	6	926	A	C8-N9-C4	-6.92	103.03	105.80
80	6	1303	U	N1-C2-O2	-6.92	117.95	122.80
80	6	1354	G	N7-C8-N9	6.92	116.56	113.10
85	5	742	G	C4-C5-N7	6.92	113.57	110.80
85	5	1134	G	C8-N9-C4	-6.92	103.63	106.40
85	5	1780	G	C6-C5-N7	-6.92	126.25	130.40
85	5	2232	A	C8-N9-C4	6.92	108.57	105.80
85	5	3307	A	C6-C5-N7	-6.92	127.46	132.30
37	7	11	A	O5'-P-OP2	6.92	119.01	110.70
38	8	32	C	N3-C4-C5	6.92	124.67	121.90
38	8	156	U	N1-C2-N3	-6.92	110.75	114.90
59	n3	86	ARG	NE-CZ-NH1	-6.92	116.84	120.30
1	2	1012	U	C6-N1-C2	6.92	125.15	121.00
1	2	1496	G	N9-C4-C5	6.92	108.17	105.40
36	1	313	A	N9-C4-C5	6.92	108.57	105.80
36	1	812	G	C5-C6-N1	6.92	114.96	111.50
36	1	1318	A	C4-C5-N7	-6.92	107.24	110.70
36	1	3314	A	N9-C4-C5	6.92	108.57	105.80
85	5	146	U	N3-C4-O4	-6.92	114.56	119.40
85	5	215	G	OP1-P-OP2	-6.92	109.22	119.60
85	5	2511	A	C5-C6-N6	-6.92	118.16	123.70
85	5	2977	G	O5'-P-OP2	-6.92	99.47	105.70
37	7	2	G	C8-N9-C4	-6.92	103.63	106.40
36	1	354	U	N1-C2-N3	6.92	119.05	114.90
36	1	1451	C	N1-C2-O2	-6.92	114.75	118.90
36	1	1467	A	O5'-P-OP1	6.92	119.00	110.70
36	1	2692	A	N1-C6-N6	-6.92	114.45	118.60
36	1	3083	G	C4-C5-N7	6.92	113.57	110.80
37	3	5	G	C6-N1-C2	-6.92	120.95	125.10
80	6	433	C	N3-C4-C5	6.92	124.67	121.90
80	6	729	G	N1-C2-N3	-6.92	119.75	123.90
80	6	1140	G	C6-N1-C2	-6.92	120.95	125.10
85	5	82	C	N3-C2-O2	6.92	126.74	121.90
85	5	110	G	C5-N7-C8	6.92	107.76	104.30
85	5	1067	U	O5'-P-OP2	6.92	119.00	110.70
85	5	1131	G	N3-C4-N9	-6.92	121.85	126.00
85	5	1488	G	C6-C5-N7	-6.92	126.25	130.40
85	5	2269	U	OP2-P-O3'	6.92	120.42	105.20
85	5	2752	U	C4-C5-C6	6.92	123.85	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2774	C	C5-C6-N1	-6.92	117.54	121.00
85	5	3202	G	N1-C2-N2	-6.92	109.97	116.20
36	1	1206	G	N7-C8-N9	6.92	116.56	113.10
36	1	3219	G	C4-C5-N7	-6.92	108.03	110.80
80	6	481	A	N1-C6-N6	-6.92	114.45	118.60
80	6	1011	G	C5-N7-C8	-6.92	100.84	104.30
85	5	789	A	C4-C5-N7	-6.92	107.24	110.70
85	5	1515	A	C8-N9-C4	-6.92	103.03	105.80
85	5	2209	U	OP1-P-OP2	6.92	129.98	119.60
85	5	2254	U	N1-C2-N3	6.92	119.05	114.90
85	5	2824	G	O5'-P-OP2	-6.92	99.47	105.70
1	2	410	A	C2-N3-C4	-6.92	107.14	110.60
36	1	2139	A	N9-C4-C5	6.92	108.57	105.80
36	1	3083	G	C6-N1-C2	-6.92	120.95	125.10
36	1	3133	C	N1-C2-N3	6.92	124.04	119.20
36	1	3209	A	OP2-P-O3'	6.92	120.41	105.20
85	5	1281	G	N3-C4-N9	-6.92	121.85	126.00
1	2	1417	U	C5-C6-N1	6.91	126.16	122.70
36	1	930	U	N3-C2-O2	6.91	127.04	122.20
36	1	1607	U	C5-C6-N1	6.91	126.16	122.70
36	1	1829	G	C5-N7-C8	6.91	107.76	104.30
36	1	2132	C	C2-N3-C4	-6.91	116.44	119.90
36	1	2138	A	O5'-P-OP1	-6.91	99.48	105.70
36	1	2399	A	C4-C5-N7	6.91	114.16	110.70
36	1	2567	C	N3-C4-C5	-6.91	119.13	121.90
36	1	2718	U	C2-N3-C4	-6.91	122.85	127.00
36	1	2789	U	C5-C4-O4	6.91	130.05	125.90
37	3	104	A	N1-C2-N3	6.91	132.76	129.30
80	6	981	U	OP1-P-O3'	6.91	120.41	105.20
80	6	1006	C	C2-N3-C4	-6.91	116.44	119.90
85	5	371	G	C5-C6-O6	6.91	132.75	128.60
85	5	1259	A	C5-C6-N1	6.91	121.16	117.70
85	5	2709	C	OP1-P-O3'	6.91	120.41	105.20
85	5	2822	U	N3-C4-C5	-6.91	110.45	114.60
85	5	3215	A	C8-N9-C4	-6.91	103.03	105.80
37	7	42	A	C4-C5-C6	6.91	120.46	117.00
36	1	1841	A	C5-N7-C8	6.91	107.36	103.90
80	6	788	A	C6-N1-C2	-6.91	114.45	118.60
85	5	1823	A	C5-N7-C8	-6.91	100.44	103.90
85	5	1873	U	C5-C4-O4	-6.91	121.75	125.90
36	1	1468	A	C4-C5-C6	6.91	120.45	117.00
36	1	1534	A	OP1-P-OP2	-6.91	109.23	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3106	A	C4-C5-N7	6.91	114.16	110.70
80	6	757	A	N3-C4-C5	6.91	131.64	126.80
80	6	1124	A	C8-N9-C4	6.91	108.56	105.80
85	5	873	C	C4-C5-C6	6.91	120.86	117.40
85	5	1012	G	C4-C5-N7	6.91	113.56	110.80
85	5	1943	C	C6-N1-C2	-6.91	117.54	120.30
85	5	2559	U	C5-C4-O4	6.91	130.05	125.90
85	5	2584	G	N7-C8-N9	6.91	116.56	113.10
85	5	3085	G	C2-N3-C4	-6.91	108.44	111.90
37	7	99	G	C5-C6-O6	6.91	132.75	128.60
1	2	1016	C	C2-N3-C4	-6.91	116.45	119.90
1	2	1727	A	C5-C6-N1	-6.91	114.25	117.70
36	1	518	G	C5-C6-N1	-6.91	108.05	111.50
36	1	967	A	N3-C4-C5	6.91	131.63	126.80
36	1	1349	G	C4-C5-N7	-6.91	108.04	110.80
36	1	1838	G	N3-C4-N9	6.91	130.15	126.00
36	1	2201	G	C4-C5-C6	6.91	122.94	118.80
36	1	2823	G	OP1-P-O3'	6.91	120.40	105.20
37	3	80	G	C6-C5-N7	6.91	134.54	130.40
80	6	575	C	N3-C4-C5	6.91	124.66	121.90
80	6	1629	G	OP2-P-O3'	6.91	120.40	105.20
85	5	220	G	C5-C6-O6	6.91	132.75	128.60
85	5	508	U	N3-C4-O4	6.91	124.24	119.40
85	5	750	G	N7-C8-N9	6.91	116.55	113.10
85	5	875	G	C4-C5-N7	-6.91	108.04	110.80
85	5	1559	A	O5'-P-OP1	-6.91	99.48	105.70
85	5	2229	A	C4-C5-C6	6.91	120.45	117.00
85	5	2425	G	OP1-P-OP2	6.91	129.96	119.60
85	5	2635	A	N9-C4-C5	6.91	108.56	105.80
85	5	2819	A	C8-N9-C4	6.91	108.56	105.80
36	1	115	A	N7-C8-N9	-6.91	110.35	113.80
36	1	742	G	C8-N9-C1'	6.91	135.98	127.00
36	1	2243	A	N7-C8-N9	-6.91	110.35	113.80
36	1	3080	G	O5'-P-OP2	6.91	118.99	110.70
80	6	269	G	C6-N1-C2	-6.91	120.96	125.10
85	5	613	G	OP2-P-O3'	6.91	120.40	105.20
85	5	1208	U	N3-C2-O2	-6.91	117.36	122.20
85	5	1811	G	N1-C6-O6	6.91	124.04	119.90
85	5	2404	A	N9-C4-C5	-6.91	103.04	105.80
85	5	3124	G	C5-C6-O6	6.91	132.74	128.60
38	8	114	G	C5-N7-C8	-6.91	100.85	104.30
1	2	414	C	N3-C4-C5	6.91	124.66	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1664	A	N1-C6-N6	-6.91	114.46	118.60
36	1	513	G	N9-C4-C5	6.91	108.16	105.40
36	1	1179	A	C4-C5-C6	6.91	120.45	117.00
36	1	1553	U	C5-C4-O4	-6.91	121.76	125.90
36	1	2442	G	C5-C6-N1	-6.91	108.05	111.50
36	1	2877	G	OP1-P-O3'	6.91	120.39	105.20
36	1	3065	G	N1-C2-N3	6.91	128.04	123.90
38	4	56	G	C4-C5-C6	6.91	122.94	118.80
80	6	401	A	N1-C6-N6	-6.91	114.46	118.60
80	6	1205	C	N3-C4-C5	-6.91	119.14	121.90
85	5	544	C	N1-C2-O2	6.91	123.04	118.90
85	5	941	G	C4-C5-C6	-6.91	114.66	118.80
85	5	1671	C	C4-C5-C6	-6.91	113.95	117.40
85	5	1678	G	N1-C6-O6	-6.91	115.76	119.90
85	5	2428	U	C4-C5-C6	6.91	123.84	119.70
85	5	2721	A	N9-C4-C5	6.91	108.56	105.80
85	5	3092	C	C5-C4-N4	-6.91	115.37	120.20
85	5	3182	G	C8-N9-C4	6.91	109.16	106.40
38	8	34	U	C2-N1-C1'	6.91	125.99	117.70
36	1	2429	G	N7-C8-N9	6.90	116.55	113.10
38	4	138	A	C2-N3-C4	-6.90	107.15	110.60
80	6	897	C	N3-C4-C5	-6.90	119.14	121.90
85	5	104	G	C6-C5-N7	-6.90	126.26	130.40
85	5	506	U	N3-C4-C5	-6.90	110.46	114.60
85	5	667	C	OP1-P-O3'	6.90	120.39	105.20
85	5	2934	A	N1-C6-N6	-6.90	114.46	118.60
1	2	599	A	C5-N7-C8	6.90	107.35	103.90
1	2	630	A	OP1-P-OP2	6.90	129.95	119.60
1	2	734	G	C4-C5-N7	6.90	113.56	110.80
36	1	423	A	C5-N7-C8	-6.90	100.45	103.90
36	1	1622	U	N1-C2-N3	6.90	119.04	114.90
36	1	2381	G	C4-C5-C6	6.90	122.94	118.80
36	1	2764	C	N3-C4-N4	6.90	122.83	118.00
36	1	2777	G	C4-C5-N7	-6.90	108.04	110.80
38	4	152	G	C4-C5-N7	-6.90	108.04	110.80
80	6	575	C	N3-C2-O2	-6.90	117.07	121.90
80	6	581	U	N3-C2-O2	6.90	127.03	122.20
80	6	943	C	N3-C4-C5	6.90	124.66	121.90
11	s9	25	ASP	CB-CG-OD1	-6.90	112.09	118.30
85	5	1723	A	C5-C6-N1	6.90	121.15	117.70
85	5	2828	G	C6-N1-C2	-6.90	120.96	125.10
85	5	3060	C	OP1-P-O3'	-6.90	90.02	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3171	U	N3-C4-C5	6.90	118.74	114.60
37	7	52	G	N1-C2-N3	6.90	128.04	123.90
1	2	545	A	O5'-P-OP2	6.90	118.98	110.70
1	2	1624	C	N1-C2-O2	-6.90	114.76	118.90
36	1	299	G	C5-C6-O6	-6.90	124.46	128.60
36	1	900	G	OP1-P-O3'	6.90	120.38	105.20
36	1	903	U	O5'-P-OP2	-6.90	99.49	105.70
36	1	1602	A	O5'-P-OP2	-6.90	99.49	105.70
36	1	1623	G	C8-N9-C4	-6.90	103.64	106.40
36	1	1802	C	N3-C2-O2	6.90	126.73	121.90
36	1	1824	U	C5-C4-O4	-6.90	121.76	125.90
36	1	2185	G	C5-C6-O6	6.90	132.74	128.60
36	1	2243	A	C4-C5-N7	-6.90	107.25	110.70
36	1	2633	U	OP1-P-OP2	-6.90	109.25	119.60
36	1	3192	U	O5'-P-OP2	-6.90	99.49	105.70
38	4	66	A	N7-C8-N9	6.90	117.25	113.80
38	4	116	G	O4'-C1'-N9	-6.90	102.68	108.20
80	6	14	C	C6-N1-C2	-6.90	117.54	120.30
85	5	2229	A	C6-N1-C2	-6.90	114.46	118.60
85	5	2787	G	N3-C2-N2	-6.90	115.07	119.90
37	7	27	A	C5-C6-N6	-6.90	118.18	123.70
37	7	32	U	C6-N1-C2	6.90	125.14	121.00
36	1	14	U	O5'-P-OP2	-6.90	99.49	105.70
36	1	567	G	C2-N3-C4	-6.90	108.45	111.90
36	1	1396	C	N1-C2-O2	-6.90	114.76	118.90
85	5	1146	C	C6-N1-C2	6.90	123.06	120.30
85	5	2728	G	N1-C6-O6	-6.90	115.76	119.90
85	5	2845	A	C5-C6-N1	6.90	121.15	117.70
85	5	3142	A	N1-C6-N6	6.90	122.74	118.60
37	7	91	G	N3-C4-N9	6.90	130.14	126.00
36	1	353	G	N9-C4-C5	6.90	108.16	105.40
36	1	957	C	O5'-P-OP2	-6.90	99.49	105.70
36	1	969	C	OP2-P-O3'	6.90	120.37	105.20
36	1	1819	U	O5'-P-OP2	-6.90	99.49	105.70
36	1	2127	U	N3-C2-O2	6.90	127.03	122.20
36	1	2410	U	O5'-P-OP1	-6.90	99.49	105.70
36	1	2959	C	N3-C2-O2	6.90	126.73	121.90
36	1	3291	G	C8-N9-C4	6.90	109.16	106.40
80	6	61	A	N1-C2-N3	6.90	132.75	129.30
85	5	281	G	C5-C6-O6	-6.90	124.46	128.60
85	5	1273	A	N1-C6-N6	6.90	122.74	118.60
85	5	1316	C	C5-C6-N1	6.90	124.45	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1507	G	C6-N1-C2	-6.90	120.96	125.10
85	5	1607	U	N3-C4-O4	6.90	124.23	119.40
1	2	1508	A	N9-C4-C5	6.90	108.56	105.80
36	1	568	G	C2-N3-C4	-6.90	108.45	111.90
36	1	1151	U	C4-C5-C6	6.90	123.84	119.70
36	1	1290	A	C5-C6-N1	-6.90	114.25	117.70
36	1	1300	G	OP1-P-OP2	-6.90	109.26	119.60
36	1	1679	A	C2-N3-C4	-6.90	107.15	110.60
36	1	1778	G	C8-N9-C4	6.90	109.16	106.40
36	1	1789	G	N3-C4-C5	6.90	132.05	128.60
36	1	2329	C	C2-N3-C4	-6.90	116.45	119.90
36	1	598	A	N1-C2-N3	6.89	132.75	129.30
36	1	1279	C	C6-N1-C2	-6.89	117.54	120.30
36	1	1725	C	N3-C2-O2	6.89	126.73	121.90
36	1	1906	G	C5-C6-N1	-6.89	108.05	111.50
80	6	310	C	C6-N1-C2	6.89	123.06	120.30
85	5	1010	G	O5'-P-OP2	-6.89	99.50	105.70
85	5	1781	C	C2-N3-C4	6.89	123.35	119.90
85	5	2122	G	C5-N7-C8	-6.89	100.85	104.30
85	5	2769	A	OP1-P-OP2	6.89	129.94	119.60
1	2	1173	C	C6-N1-C2	6.89	123.06	120.30
1	2	1322	C	O5'-P-OP2	-6.89	99.50	105.70
36	1	887	G	C6-C5-N7	6.89	134.53	130.40
36	1	2628	A	N9-C4-C5	6.89	108.56	105.80
36	1	2856	G	C4-C5-N7	-6.89	108.04	110.80
36	1	3007	U	N3-C4-C5	6.89	118.73	114.60
36	1	3173	G	C5-C6-N1	6.89	114.95	111.50
37	3	30	G	N1-C6-O6	6.89	124.03	119.90
80	6	411	C	C2-N3-C4	-6.89	116.45	119.90
80	6	563	U	C6-N1-C2	-6.89	116.86	121.00
80	6	1649	G	C6-C5-N7	-6.89	126.26	130.40
85	5	106	A	C5-C6-N6	-6.89	118.19	123.70
85	5	1441	G	N9-C4-C5	-6.89	102.64	105.40
85	5	2520	A	C6-C5-N7	-6.89	127.47	132.30
85	5	3077	A	O5'-P-OP2	-6.89	99.50	105.70
85	5	3103	A	C5-C6-N1	6.89	121.15	117.70
37	7	13	A	N3-C4-C5	-6.89	121.98	126.80
1	2	954	A	N1-C2-N3	6.89	132.75	129.30
36	1	1450	G	C4-C5-C6	-6.89	114.67	118.80
36	1	1738	C	C5-C6-N1	-6.89	117.56	121.00
36	1	2585	G	C6-N1-C2	-6.89	120.97	125.10
36	1	2943	G	O5'-P-OP1	6.89	118.97	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3007	U	C5-C6-N1	-6.89	119.25	122.70
80	6	1678	A	C5-C6-N1	-6.89	114.25	117.70
85	5	304	G	N7-C8-N9	6.89	116.55	113.10
85	5	1053	A	N7-C8-N9	6.89	117.25	113.80
85	5	1095	U	N1-C2-N3	6.89	119.03	114.90
85	5	1803	C	N3-C2-O2	6.89	126.72	121.90
37	7	101	G	C4-C5-C6	6.89	122.94	118.80
1	2	1342	C	C6-N1-C2	6.89	123.06	120.30
36	1	151	A	C6-C5-N7	-6.89	127.48	132.30
36	1	571	U	OP1-P-OP2	6.89	129.93	119.60
36	1	1460	A	C8-N9-C4	-6.89	103.04	105.80
36	1	2764	C	C5-C6-N1	6.89	124.44	121.00
36	1	2852	C	C6-N1-C1'	-6.89	112.53	120.80
36	1	3371	G	N1-C2-N3	6.89	128.03	123.90
38	4	114	G	C5-C6-N1	-6.89	108.06	111.50
85	5	30	G	N3-C2-N2	6.89	124.72	119.90
85	5	80	G	O5'-P-OP1	6.89	118.97	110.70
85	5	115	A	C4-C5-N7	6.89	114.14	110.70
85	5	1258	U	N3-C4-C5	-6.89	110.47	114.60
85	5	1399	A	N9-C4-C5	-6.89	103.04	105.80
85	5	1477	A	N7-C8-N9	6.89	117.25	113.80
85	5	2157	G	N3-C4-C5	-6.89	125.16	128.60
85	5	2640	A	C6-N1-C2	-6.89	114.47	118.60
85	5	3158	G	O5'-P-OP1	6.89	118.97	110.70
1	2	1576	A	C2-N3-C4	-6.89	107.16	110.60
36	1	967	A	N7-C8-N9	6.89	117.24	113.80
36	1	1480	G	N9-C4-C5	-6.89	102.64	105.40
36	1	2190	U	OP2-P-O3'	6.89	120.35	105.20
36	1	3127	A	C5-N7-C8	-6.89	100.46	103.90
36	1	3215	A	N3-C4-C5	-6.89	121.98	126.80
80	6	209	U	N3-C2-O2	6.89	127.02	122.20
80	6	683	C	C6-N1-C2	-6.89	117.55	120.30
80	6	1033	C	C6-N1-C2	6.89	123.06	120.30
85	5	286	U	O5'-P-OP1	-6.89	99.50	105.70
85	5	725	G	C4-N9-C1'	6.89	135.45	126.50
85	5	1294	A	C5-N7-C8	-6.89	100.46	103.90
85	5	1853	U	N3-C4-C5	-6.89	110.47	114.60
85	5	2793	G	O5'-P-OP1	-6.89	99.50	105.70
85	5	2993	G	N3-C4-N9	6.89	130.13	126.00
85	5	3189	G	O5'-P-OP2	6.89	118.97	110.70
36	1	166	C	C6-N1-C2	-6.89	117.55	120.30
36	1	801	A	N1-C6-N6	6.89	122.73	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	824	C	C6-N1-C2	-6.89	117.55	120.30
36	1	1307	G	C5-N7-C8	6.89	107.74	104.30
36	1	2222	A	O5'-P-OP2	-6.89	99.50	105.70
80	6	1314	U	OP1-P-OP2	-6.89	109.27	119.60
85	5	2273	G	N1-C6-O6	-6.89	115.77	119.90
85	5	2608	G	C5-C6-N1	-6.89	108.06	111.50
38	8	55	U	C4-C5-C6	6.89	123.83	119.70
38	8	143	U	N1-C2-N3	6.89	119.03	114.90
1	2	36	C	N3-C2-O2	6.88	126.72	121.90
1	2	700	C	N3-C4-C5	-6.88	119.15	121.90
36	1	73	C	N3-C2-O2	6.88	126.72	121.90
36	1	591	G	N3-C4-N9	-6.88	121.87	126.00
36	1	1204	A	N7-C8-N9	-6.88	110.36	113.80
36	1	1507	G	OP1-P-OP2	6.88	129.93	119.60
36	1	2097	U	N1-C2-N3	-6.88	110.77	114.90
36	1	2731	U	N3-C4-C5	-6.88	110.47	114.60
38	4	46	G	C8-N9-C4	6.88	109.15	106.40
49	M3	67	ARG	NE-CZ-NH1	-6.88	116.86	120.30
80	6	356	G	N1-C2-N2	-6.88	110.00	116.20
80	6	989	U	C4-C5-C6	6.88	123.83	119.70
80	6	1213	G	C4-C5-C6	6.88	122.93	118.80
85	5	806	A	C2-N3-C4	-6.88	107.16	110.60
85	5	808	A	C4-C5-N7	6.88	114.14	110.70
85	5	1177	G	N1-C2-N3	6.88	128.03	123.90
85	5	1514	G	O5'-P-OP2	-6.88	99.50	105.70
85	5	1531	C	C5-C6-N1	6.88	124.44	121.00
85	5	2314	U	O5'-P-OP1	6.88	118.96	110.70
85	5	3022	G	N3-C4-C5	-6.88	125.16	128.60
1	2	920	C	N3-C4-N4	6.88	122.82	118.00
36	1	2405	C	C6-N1-C1'	-6.88	112.54	120.80
38	4	15	G	N3-C2-N2	6.88	124.72	119.90
38	4	116	G	O5'-P-OP1	6.88	118.96	110.70
80	6	523	G	N3-C2-N2	6.88	124.72	119.90
80	6	1537	C	C6-N1-C2	-6.88	117.55	120.30
85	5	796	U	O5'-P-OP2	6.88	118.96	110.70
85	5	1834	U	C5-C4-O4	6.88	130.03	125.90
85	5	2956	A	O5'-P-OP2	6.88	118.96	110.70
85	5	3331	U	O5'-P-OP2	-6.88	99.50	105.70
38	8	115	C	N3-C4-N4	6.88	122.82	118.00
1	2	672	G	N1-C6-O6	6.88	124.03	119.90
36	1	538	G	N1-C6-O6	6.88	124.03	119.90
36	1	586	C	C4-C5-C6	-6.88	113.96	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	780	A	N7-C8-N9	6.88	117.24	113.80
36	1	864	G	O5'-P-OP1	-6.88	99.51	105.70
37	3	51	A	N1-C2-N3	-6.88	125.86	129.30
37	3	82	G	N3-C4-C5	-6.88	125.16	128.60
80	6	1583	A	C2-N3-C4	-6.88	107.16	110.60
80	6	1739	C	O5'-P-OP1	-6.88	99.51	105.70
85	5	730	C	N3-C4-N4	6.88	122.82	118.00
85	5	1588	A	C4-C5-N7	-6.88	107.26	110.70
85	5	1649	U	N3-C4-O4	6.88	124.22	119.40
85	5	1834	U	O5'-P-OP1	6.88	118.96	110.70
85	5	2625	C	O5'-P-OP2	-6.88	99.51	105.70
85	5	2700	G	C6-N1-C2	-6.88	120.97	125.10
38	8	131	A	C5-C6-N1	6.88	121.14	117.70
36	1	2687	G	O5'-P-OP1	6.88	118.95	110.70
36	1	3030	G	N3-C4-C5	-6.88	125.16	128.60
36	1	3232	G	N1-C2-N3	6.88	128.03	123.90
85	5	1186	G	N1-C2-N3	6.88	128.03	123.90
85	5	3195	U	N3-C4-C5	6.88	118.73	114.60
1	2	873	C	C5-C6-N1	-6.88	117.56	121.00
36	1	80	G	C5-N7-C8	6.88	107.74	104.30
36	1	353	G	N1-C2-N3	6.88	128.03	123.90
36	1	391	A	C6-N1-C2	-6.88	114.47	118.60
36	1	907	G	N1-C2-N2	-6.88	110.01	116.20
36	1	1641	U	N1-C2-N3	6.88	119.03	114.90
36	1	2213	A	OP1-P-OP2	-6.88	109.28	119.60
36	1	2815	G	C5-N7-C8	-6.88	100.86	104.30
36	1	2950	G	N7-C8-N9	6.88	116.54	113.10
36	1	3199	G	C5-C6-O6	6.88	132.73	128.60
80	6	1116	A	N1-C6-N6	6.88	122.73	118.60
80	6	1771	U	N3-C4-O4	6.88	124.22	119.40
85	5	508	U	O4'-C1'-N1	6.88	113.70	108.20
1	2	364	G	N7-C8-N9	6.88	116.54	113.10
1	2	1330	U	N3-C4-O4	6.88	124.21	119.40
36	1	919	U	C6-N1-C2	-6.88	116.87	121.00
36	1	1432	C	O5'-P-OP1	-6.88	99.51	105.70
80	6	318	U	C4-C5-C6	6.88	123.83	119.70
80	6	1006	C	OP2-P-O3'	6.88	120.33	105.20
80	6	1730	A	C5-C6-N6	-6.88	118.20	123.70
85	5	275	U	C6-N1-C2	-6.88	116.88	121.00
85	5	947	G	C8-N9-C1'	-6.88	118.06	127.00
85	5	1479	U	N3-C4-O4	-6.88	114.59	119.40
85	5	2289	U	N3-C2-O2	-6.88	117.39	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2864	A	N1-C2-N3	-6.88	125.86	129.30
1	2	611	U	N1-C2-O2	6.88	127.61	122.80
1	2	1761	G	C4-C5-N7	6.88	113.55	110.80
80	6	511	A	N1-C2-N3	-6.88	125.86	129.30
1	2	74	U	C2-N1-C1'	-6.87	109.45	117.70
36	1	86	G	N9-C4-C5	6.87	108.15	105.40
36	1	102	C	C6-N1-C2	6.87	123.05	120.30
36	1	611	A	C2-N3-C4	-6.87	107.16	110.60
36	1	614	C	N3-C2-O2	6.87	126.71	121.90
36	1	2125	A	C6-C5-N7	-6.87	127.49	132.30
36	1	2694	A	OP1-P-OP2	6.87	129.91	119.60
37	3	19	C	C4-C5-C6	-6.87	113.96	117.40
37	3	81	U	C2-N3-C4	-6.87	122.88	127.00
38	4	153	U	C2-N3-C4	-6.87	122.88	127.00
80	6	886	U	N3-C4-C5	6.87	118.72	114.60
85	5	1045	C	N3-C4-N4	6.87	122.81	118.00
85	5	1917	C	N3-C4-N4	6.87	122.81	118.00
85	5	2258	U	N1-C2-O2	6.87	127.61	122.80
85	5	3161	C	C2-N3-C4	6.87	123.34	119.90
37	7	79	A	C2-N3-C4	-6.87	107.16	110.60
1	2	148	A	C5-C6-N1	-6.87	114.26	117.70
36	1	3306	U	N3-C4-O4	-6.87	114.59	119.40
80	6	924	A	C5-N7-C8	-6.87	100.47	103.90
85	5	588	G	C4-C5-N7	-6.87	108.05	110.80
85	5	1131	G	C8-N9-C4	-6.87	103.65	106.40
85	5	1575	A	N1-C2-N3	-6.87	125.86	129.30
85	5	1847	A	N1-C6-N6	-6.87	114.48	118.60
85	5	2406	C	C4-C5-C6	6.87	120.84	117.40
85	5	2758	A	N1-C6-N6	-6.87	114.48	118.60
37	7	107	C	C6-N1-C2	6.87	123.05	120.30
38	8	39	G	N9-C4-C5	6.87	108.15	105.40
1	2	1636	C	C5-C6-N1	6.87	124.44	121.00
36	1	761	A	C4-C5-C6	6.87	120.44	117.00
36	1	2614	G	C5-C6-O6	6.87	132.72	128.60
36	1	2995	A	C2-N3-C4	-6.87	107.17	110.60
36	1	3103	A	N3-C4-C5	6.87	131.61	126.80
85	5	2603	G	C5-C6-N1	-6.87	108.06	111.50
1	2	989	C	C6-N1-C2	-6.87	117.55	120.30
1	2	1560	A	O5'-P-OP2	6.87	118.94	110.70
36	1	862	U	C5-C4-O4	-6.87	121.78	125.90
36	1	2593	A	C2-N3-C4	6.87	114.03	110.60
36	1	2787	G	O5'-P-OP2	-6.87	99.52	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3087	A	C4-C5-C6	6.87	120.43	117.00
80	6	40	A	C4-C5-C6	6.87	120.43	117.00
85	5	270	U	N3-C4-O4	6.87	124.21	119.40
85	5	352	A	N1-C6-N6	-6.87	114.48	118.60
85	5	821	U	O5'-P-OP1	6.87	118.94	110.70
85	5	881	C	N1-C2-O2	6.87	123.02	118.90
85	5	1007	U	N3-C2-O2	6.87	127.01	122.20
85	5	1146	C	N3-C4-C5	-6.87	119.15	121.90
85	5	1330	A	OP1-P-OP2	-6.87	109.30	119.60
85	5	1381	A	N1-C6-N6	6.87	122.72	118.60
85	5	1886	A	N3-C4-C5	6.87	131.61	126.80
85	5	1924	U	OP1-P-OP2	6.87	129.90	119.60
85	5	2403	G	O5'-P-OP2	6.87	118.94	110.70
85	5	2594	C	C5-C4-N4	-6.87	115.39	120.20
85	5	3214	U	C5-C6-N1	-6.87	119.27	122.70
85	5	3233	C	N1-C2-O2	-6.87	114.78	118.90
85	5	3319	U	N1-C2-N3	6.87	119.02	114.90
85	5	3342	A	C5-C6-N6	-6.87	118.20	123.70
1	2	148	A	C2-N3-C4	-6.87	107.17	110.60
36	1	1933	A	OP1-P-OP2	-6.87	109.30	119.60
36	1	2098	C	C2-N3-C4	6.87	123.33	119.90
36	1	2361	A	N1-C2-N3	6.87	132.73	129.30
36	1	2541	U	N1-C2-O2	6.87	127.61	122.80
36	1	2635	A	O5'-P-OP1	6.87	118.94	110.70
85	5	910	G	C6-C5-N7	-6.87	126.28	130.40
36	1	20	A	N3-C4-C5	-6.87	121.99	126.80
36	1	86	G	N1-C2-N3	6.87	128.02	123.90
36	1	422	A	O5'-P-OP2	6.87	118.94	110.70
36	1	527	A	O5'-P-OP1	6.87	118.94	110.70
36	1	1305	U	OP2-P-O3'	6.87	120.30	105.20
36	1	1418	A	C4-C5-C6	-6.87	113.57	117.00
36	1	2752	U	O5'-P-OP2	-6.87	99.52	105.70
36	1	2894	C	C2-N3-C4	-6.87	116.47	119.90
36	1	3319	U	N1-C2-O2	-6.87	118.00	122.80
85	5	717	C	N3-C2-O2	-6.87	117.09	121.90
1	2	57	G	C5-C6-N1	-6.86	108.07	111.50
36	1	664	U	OP1-P-OP2	-6.86	109.30	119.60
36	1	720	A	C6-N1-C2	-6.86	114.48	118.60
36	1	1819	U	N3-C2-O2	6.86	127.00	122.20
36	1	2932	U	N1-C2-O2	-6.86	118.00	122.80
38	4	93	U	OP1-P-OP2	6.86	129.89	119.60
80	6	20	G	OP1-P-OP2	6.86	129.90	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	330	G	N1-C6-O6	6.86	124.02	119.90
80	6	1678	A	N3-C4-C5	6.86	131.60	126.80
85	5	1253	U	N3-C4-C5	6.86	118.72	114.60
85	5	1463	U	OP1-P-OP2	-6.86	109.31	119.60
85	5	1495	U	N1-C2-N3	6.86	119.02	114.90
85	5	2234	G	N3-C4-C5	6.86	132.03	128.60
85	5	2761	G	C4-C5-N7	6.86	113.55	110.80
36	1	193	C	N1-C2-O2	-6.86	114.78	118.90
36	1	1389	G	N1-C6-O6	6.86	124.02	119.90
36	1	1399	A	C5-N7-C8	-6.86	100.47	103.90
36	1	1679	A	C5-N7-C8	-6.86	100.47	103.90
36	1	2898	G	C4-C5-N7	-6.86	108.06	110.80
85	5	968	G	C8-N9-C1'	-6.86	118.08	127.00
85	5	2705	A	C5-N7-C8	-6.86	100.47	103.90
85	5	2978	U	C6-N1-C2	-6.86	116.88	121.00
1	2	1621	G	C2-N3-C4	-6.86	108.47	111.90
1	2	1714	A	C5-C6-N1	-6.86	114.27	117.70
36	1	375	A	C5-C6-N6	6.86	129.19	123.70
36	1	998	A	C2-N3-C4	-6.86	107.17	110.60
36	1	1227	C	C5-C4-N4	-6.86	115.40	120.20
36	1	1464	G	N9-C4-C5	-6.86	102.66	105.40
36	1	1613	A	N1-C2-N3	6.86	132.73	129.30
36	1	2926	A	C6-C5-N7	-6.86	127.50	132.30
36	1	3110	C	C4-C5-C6	6.86	120.83	117.40
80	6	602	U	C6-N1-C2	-6.86	116.88	121.00
85	5	284	A	O5'-P-OP1	6.86	118.93	110.70
85	5	305	U	C2-N3-C4	-6.86	122.88	127.00
85	5	804	C	C4-C5-C6	-6.86	113.97	117.40
85	5	866	A	C5-C6-N6	-6.86	118.21	123.70
85	5	1519	G	N1-C2-N3	-6.86	119.78	123.90
85	5	2316	G	C2-N3-C4	-6.86	108.47	111.90
85	5	2874	G	C4-C5-C6	6.86	122.92	118.80
37	7	91	G	OP1-P-OP2	6.86	129.89	119.60
38	8	35	C	C5-C6-N1	6.86	124.43	121.00
36	1	982	C	N1-C2-N3	-6.86	114.40	119.20
36	1	1210	U	N1-C2-O2	6.86	127.60	122.80
36	1	2375	G	N1-C6-O6	-6.86	115.78	119.90
85	5	555	U	N3-C4-C5	-6.86	110.48	114.60
85	5	891	G	N1-C6-O6	-6.86	115.78	119.90
85	5	1207	G	C6-N1-C2	-6.86	120.98	125.10
1	2	691	C	N3-C4-C5	-6.86	119.16	121.90
36	1	20	A	C8-N9-C4	-6.86	103.06	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	669	U	C2-N3-C4	-6.86	122.89	127.00
36	1	789	A	N1-C2-N3	6.86	132.73	129.30
36	1	1103	A	C5-C6-N6	-6.86	118.21	123.70
36	1	1129	A	C5-C6-N6	-6.86	118.21	123.70
36	1	3071	U	N3-C4-C5	-6.86	110.49	114.60
41	L4	325	LEU	CB-CG-CD2	-6.86	99.34	111.00
80	6	108	A	C5-C6-N1	6.86	121.13	117.70
85	5	53	G	C8-N9-C1'	-6.86	118.08	127.00
85	5	1492	G	N3-C4-N9	-6.86	121.89	126.00
85	5	1655	G	N7-C8-N9	-6.86	109.67	113.10
85	5	3207	U	N1-C2-N3	6.86	119.01	114.90
37	7	99	G	C6-N1-C2	-6.86	120.99	125.10
1	2	1159	G	N7-C8-N9	6.86	116.53	113.10
36	1	358	G	N1-C2-N2	6.86	122.37	116.20
36	1	725	G	N9-C4-C5	-6.86	102.66	105.40
36	1	767	U	O4'-C1'-N1	6.86	113.68	108.20
36	1	941	G	C5-C6-N1	6.86	114.93	111.50
36	1	1418	A	C5-C6-N1	6.86	121.13	117.70
36	1	1498	A	C8-N9-C4	6.86	108.54	105.80
36	1	1705	U	C5-C4-O4	6.86	130.01	125.90
36	1	2425	G	C6-N1-C2	-6.86	120.99	125.10
37	3	2	G	C4-C5-C6	6.86	122.91	118.80
80	6	161	U	C5-C4-O4	6.86	130.01	125.90
80	6	374	U	N1-C2-N3	6.86	119.01	114.90
85	5	130	A	O5'-P-OP1	-6.86	99.53	105.70
85	5	131	C	OP1-P-OP2	-6.86	109.32	119.60
85	5	1882	G	C2-N3-C4	-6.86	108.47	111.90
85	5	2115	G	OP2-P-O3'	-6.86	90.12	105.20
85	5	2116	G	C4-C5-N7	6.86	113.54	110.80
85	5	2771	U	C5-C6-N1	-6.86	119.27	122.70
85	5	2877	G	N3-C4-C5	6.86	132.03	128.60
24	D2	9	ASP	CB-CG-OD1	-6.85	112.13	118.30
80	6	467	G	C8-N9-C1'	-6.85	118.09	127.00
80	6	1196	A	N9-C4-C5	6.85	108.54	105.80
85	5	3213	A	C8-N9-C4	-6.85	103.06	105.80
85	5	3296	A	N1-C2-N3	6.85	132.73	129.30
1	2	422	G	N1-C6-O6	6.85	124.01	119.90
36	1	23	A	N1-C2-N3	6.85	132.73	129.30
36	1	85	A	C5-C6-N6	6.85	129.18	123.70
36	1	269	G	C5-N7-C8	-6.85	100.87	104.30
36	1	799	G	C2-N3-C4	-6.85	108.47	111.90
36	1	992	A	C5-N7-C8	-6.85	100.47	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1120	A	C5-N7-C8	6.85	107.33	103.90
36	1	1349	G	N3-C4-N9	6.85	130.11	126.00
36	1	1509	A	C4-C5-N7	6.85	114.13	110.70
36	1	1759	C	N3-C4-N4	-6.85	113.20	118.00
36	1	2806	U	C5-C4-O4	6.85	130.01	125.90
80	6	1143	A	N9-C4-C5	6.85	108.54	105.80
80	6	1527	C	C2-N3-C4	6.85	123.33	119.90
85	5	54	C	C4-C5-C6	6.85	120.83	117.40
85	5	651	G	C4-C5-N7	6.85	113.54	110.80
85	5	658	G	N9-C4-C5	6.85	108.14	105.40
85	5	830	A	C8-N9-C4	-6.85	103.06	105.80
85	5	965	A	N7-C8-N9	6.85	117.23	113.80
85	5	1604	G	C5-C6-N1	6.85	114.93	111.50
85	5	1786	G	N7-C8-N9	6.85	116.53	113.10
85	5	2141	U	OP2-P-O3'	6.85	120.27	105.20
85	5	2769	A	C4-C5-N7	-6.85	107.27	110.70
1	2	411	C	C4-C5-C6	6.85	120.83	117.40
36	1	313	A	O5'-P-OP2	-6.85	99.53	105.70
36	1	804	C	N3-C4-N4	6.85	122.80	118.00
36	1	1952	G	N7-C8-N9	6.85	116.53	113.10
37	3	13	A	N7-C8-N9	6.85	117.23	113.80
38	4	121	U	OP1-P-OP2	6.85	129.88	119.60
80	6	1186	U	N3-C2-O2	-6.85	117.40	122.20
85	5	541	U	C5-C4-O4	6.85	130.01	125.90
85	5	2421	U	C2-N1-C1'	6.85	125.92	117.70
85	5	2735	U	N3-C4-C5	-6.85	110.49	114.60
85	5	2915	U	O5'-P-OP1	6.85	118.92	110.70
1	2	120	U	N1-C2-O2	-6.85	118.00	122.80
1	2	1022	A	C2-N3-C4	6.85	114.02	110.60
1	2	1588	G	C5-N7-C8	-6.85	100.88	104.30
36	1	13	A	N7-C8-N9	6.85	117.22	113.80
36	1	526	C	N3-C2-O2	-6.85	117.11	121.90
36	1	2614	G	C6-N1-C2	-6.85	120.99	125.10
36	1	2947	G	N9-C4-C5	-6.85	102.66	105.40
36	1	3328	G	O5'-P-OP2	6.85	118.92	110.70
80	6	1383	G	N1-C6-O6	6.85	124.01	119.90
85	5	208	C	C5-C4-N4	-6.85	115.41	120.20
85	5	948	C	C5-C4-N4	-6.85	115.41	120.20
85	5	999	G	C4-C5-N7	6.85	113.54	110.80
85	5	2189	U	N1-C2-N3	6.85	119.01	114.90
85	5	3370	A	N3-C4-C5	-6.85	122.00	126.80
1	2	81	G	C5-C6-O6	-6.85	124.49	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1496	G	C5-C6-O6	6.85	132.71	128.60
36	1	1365	G	C8-N9-C4	-6.85	103.66	106.40
36	1	1519	G	C5-C6-O6	-6.85	124.49	128.60
36	1	1744	G	C5-C6-N1	6.85	114.92	111.50
36	1	2979	U	C2-N3-C4	-6.85	122.89	127.00
38	4	44	A	C6-N1-C2	-6.85	114.49	118.60
38	4	66	A	N3-C4-N9	-6.85	121.92	127.40
80	6	1315	U	C4-C5-C6	6.85	123.81	119.70
80	6	1461	C	C6-N1-C2	-6.85	117.56	120.30
85	5	870	G	C2-N3-C4	-6.85	108.48	111.90
85	5	1387	G	N3-C4-C5	6.85	132.02	128.60
85	5	1858	A	N7-C8-N9	6.85	117.22	113.80
85	5	2153	U	C5-C4-O4	-6.85	121.79	125.90
85	5	2872	A	C5-N7-C8	-6.85	100.48	103.90
36	1	856	G	C2-N3-C4	6.85	115.32	111.90
36	1	1525	G	N1-C2-N3	6.85	128.01	123.90
36	1	2134	G	C8-N9-C4	6.85	109.14	106.40
36	1	2911	A	OP1-P-OP2	6.85	129.87	119.60
80	6	522	U	C6-N1-C2	6.85	125.11	121.00
85	5	913	A	C5-N7-C8	-6.85	100.48	103.90
85	5	1786	G	N9-C4-C5	6.85	108.14	105.40
85	5	3308	C	C5-C4-N4	-6.85	115.41	120.20
1	2	434	G	C8-N9-C1'	-6.84	118.10	127.00
1	2	744	G	C4-C5-N7	-6.84	108.06	110.80
1	2	1093	G	C6-C5-N7	6.84	134.51	130.40
1	2	1141	C	N1-C2-O2	6.84	123.01	118.90
36	1	15	C	O5'-P-OP2	-6.84	99.54	105.70
36	1	87	U	C5-C6-N1	-6.84	119.28	122.70
36	1	335	G	P-O3'-C3'	-6.84	111.49	119.70
36	1	433	A	N3-C4-C5	6.84	131.59	126.80
36	1	1066	G	N7-C8-N9	6.84	116.52	113.10
36	1	1414	G	C4-C5-C6	6.84	122.91	118.80
36	1	3181	C	N3-C2-O2	-6.84	117.11	121.90
37	3	57	G	OP2-P-O3'	6.84	120.26	105.20
38	4	105	A	C4-C5-N7	6.84	114.12	110.70
80	6	294	C	C4-C5-C6	6.84	120.82	117.40
80	6	449	C	O4'-C1'-N1	-6.84	102.72	108.20
85	5	267	G	C4-C5-N7	6.84	113.54	110.80
85	5	553	U	C4-C5-C6	6.84	123.81	119.70
85	5	1241	U	N3-C4-O4	6.84	124.19	119.40
85	5	1307	G	C5'-C4'-O4'	-6.84	100.89	109.10
85	5	1335	C	N3-C2-O2	6.84	126.69	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2399	A	C5-C6-N1	-6.84	114.28	117.70
85	5	2418	G	N3-C4-C5	-6.84	125.18	128.60
85	5	2681	U	C2-N3-C4	-6.84	122.89	127.00
36	1	552	G	C4-C5-C6	6.84	122.91	118.80
36	1	819	U	N3-C4-O4	6.84	124.19	119.40
36	1	887	G	N1-C6-O6	-6.84	115.79	119.90
36	1	1227	C	C6-N1-C2	6.84	123.04	120.30
36	1	2963	C	C6-N1-C2	-6.84	117.56	120.30
80	6	1674	C	C2-N3-C4	-6.84	116.48	119.90
85	5	1420	C	C2-N1-C1'	-6.84	111.27	118.80
85	5	2981	U	N3-C4-C5	-6.84	110.49	114.60
1	2	1530	A	N9-C4-C5	6.84	108.54	105.80
36	1	585	A	N3-C4-N9	-6.84	121.93	127.40
36	1	1536	G	C5-C6-N1	6.84	114.92	111.50
36	1	1802	C	OP1-P-OP2	-6.84	109.34	119.60
36	1	2271	A	C2-N3-C4	-6.84	107.18	110.60
36	1	3124	G	N1-C2-N3	6.84	128.00	123.90
85	5	499	G	N1-C2-N2	-6.84	110.04	116.20
85	5	1072	G	C4-C5-C6	6.84	122.91	118.80
85	5	2829	U	N3-C2-O2	6.84	126.99	122.20
85	5	2914	G	C6-N1-C2	-6.84	121.00	125.10
85	5	2930	A	N1-C6-N6	6.84	122.70	118.60
85	5	2956	A	OP2-P-O3'	6.84	120.25	105.20
36	1	281	G	N3-C2-N2	-6.84	115.11	119.90
36	1	655	C	C5-C6-N1	6.84	124.42	121.00
36	1	686	G	OP2-P-O3'	6.84	120.25	105.20
36	1	716	A	C4-C5-C6	-6.84	113.58	117.00
36	1	1942	U	N1-C2-N3	6.84	119.00	114.90
36	1	2234	G	C5-C6-O6	6.84	132.70	128.60
36	1	3038	U	N3-C4-C5	-6.84	110.50	114.60
36	1	3140	G	C6-N1-C2	-6.84	121.00	125.10
80	6	1678	A	N1-C2-N3	6.84	132.72	129.30
85	5	274	G	C2-N3-C4	-6.84	108.48	111.90
85	5	503	C	O5'-P-OP2	6.84	118.91	110.70
85	5	1186	G	OP1-P-OP2	-6.84	109.34	119.60
85	5	1368	U	N1-C2-O2	-6.84	118.01	122.80
85	5	1777	U	N1-C2-O2	6.84	127.59	122.80
85	5	2124	G	C5-C6-O6	6.84	132.70	128.60
37	7	60	G	N1-C6-O6	-6.84	115.80	119.90
1	2	1562	U	C5-C6-N1	-6.84	119.28	122.70
36	1	1215	U	C4-C5-C6	6.84	123.80	119.70
36	1	1545	A	OP1-P-O3'	6.84	120.25	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2279	A	C6-N1-C2	-6.84	114.50	118.60
80	6	523	G	C2-N3-C4	6.84	115.32	111.90
80	6	1624	C	OP2-P-O3'	6.84	120.24	105.20
85	5	157	A	OP1-P-OP2	6.84	129.86	119.60
85	5	665	A	C5-C6-N1	6.84	121.12	117.70
85	5	2323	G	O5'-P-OP2	6.84	118.91	110.70
1	2	581	U	C5-C6-N1	6.84	126.12	122.70
1	2	970	G	C2-N3-C4	-6.84	108.48	111.90
36	1	3056	U	OP1-P-OP2	-6.84	109.34	119.60
36	1	3225	C	OP2-P-O3'	6.84	120.24	105.20
80	6	1635	A	O5'-P-OP1	-6.84	99.55	105.70
85	5	90	C	O5'-P-OP2	6.84	118.90	110.70
85	5	825	U	OP1-P-O3'	6.84	120.24	105.20
85	5	1841	A	O5'-P-OP1	6.84	118.90	110.70
85	5	2113	A	N7-C8-N9	-6.84	110.38	113.80
85	5	3054	U	C5-C4-O4	6.84	130.00	125.90
1	2	1657	C	C6-N1-C2	-6.83	117.57	120.30
36	1	3092	C	OP1-P-O3'	6.83	120.24	105.20
80	6	1304	G	C5-C6-N1	6.83	114.92	111.50
80	6	1455	G	N3-C4-C5	6.83	132.02	128.60
85	5	630	A	N7-C8-N9	-6.83	110.38	113.80
85	5	3184	A	C2-N3-C4	-6.83	107.18	110.60
36	1	78	U	OP2-P-O3'	6.83	120.23	105.20
36	1	1597	C	OP1-P-OP2	6.83	129.85	119.60
36	1	1720	U	C5-C6-N1	-6.83	119.28	122.70
36	1	2506	U	OP1-P-OP2	-6.83	109.35	119.60
36	1	3334	U	N1-C2-N3	6.83	119.00	114.90
80	6	509	G	N1-C6-O6	6.83	124.00	119.90
80	6	1786	G	C8-N9-C4	6.83	109.13	106.40
85	5	966	U	C5-C4-O4	-6.83	121.80	125.90
85	5	1669	C	N3-C2-O2	6.83	126.68	121.90
85	5	1751	G	O5'-P-OP1	-6.83	99.55	105.70
85	5	1784	G	N1-C2-N3	6.83	128.00	123.90
85	5	1877	U	C6-N1-C2	6.83	125.10	121.00
85	5	1914	G	N3-C4-C5	-6.83	125.18	128.60
85	5	2305	G	C4-C5-N7	6.83	113.53	110.80
85	5	2359	C	N1-C2-O2	-6.83	114.80	118.90
85	5	2381	G	N1-C2-N2	-6.83	110.05	116.20
85	5	2438	A	C6-N1-C2	6.83	122.70	118.60
85	5	2439	A	C8-N9-C4	6.83	108.53	105.80
85	5	2826	U	OP1-P-OP2	-6.83	109.35	119.60
85	5	2845	A	C2-N3-C4	6.83	114.02	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3360	C	N3-C4-C5	6.83	124.63	121.90
38	8	9	A	C8-N9-C4	-6.83	103.07	105.80
1	2	122	U	N3-C4-O4	6.83	124.18	119.40
1	2	510	G	N3-C4-C5	-6.83	125.18	128.60
1	2	887	G	C6-C5-N7	6.83	134.50	130.40
36	1	603	A	C8-N9-C4	6.83	108.53	105.80
36	1	884	A	C4-C5-N7	-6.83	107.28	110.70
36	1	1377	G	OP2-P-O3'	6.83	120.23	105.20
36	1	1390	A	N9-C4-C5	6.83	108.53	105.80
36	1	1762	C	N3-C2-O2	6.83	126.68	121.90
38	4	97	A	C2-N3-C4	-6.83	107.18	110.60
80	6	980	G	OP2-P-O3'	6.83	120.23	105.20
80	6	994	G	O5'-P-OP2	-6.83	99.55	105.70
85	5	808	A	C6-N1-C2	-6.83	114.50	118.60
85	5	1658	G	N1-C2-N3	6.83	128.00	123.90
85	5	1847	A	C8-N9-C4	-6.83	103.07	105.80
85	5	2329	C	O5'-P-OP2	-6.83	99.55	105.70
85	5	2620	G	O5'-P-OP1	6.83	118.90	110.70
38	8	42	G	N9-C4-C5	-6.83	102.67	105.40
1	2	190	C	N3-C4-C5	6.83	124.63	121.90
1	2	745	A	C4-C5-N7	-6.83	107.28	110.70
36	1	92	G	O4'-C1'-N9	6.83	113.66	108.20
71	O5	81	ARG	NE-CZ-NH1	-6.83	116.89	120.30
80	6	281	G	C5-C6-O6	-6.83	124.50	128.60
80	6	510	G	C5-C6-O6	-6.83	124.50	128.60
80	6	1156	C	N1-C2-O2	-6.83	114.80	118.90
85	5	1408	G	OP1-P-O3'	6.83	120.22	105.20
85	5	2311	G	C5-C6-N1	6.83	114.92	111.50
85	5	2611	U	O5'-P-OP1	6.83	118.90	110.70
1	2	86	A	C2-N3-C4	-6.83	107.19	110.60
36	1	824	C	N1-C2-N3	6.83	123.98	119.20
36	1	2212	C	N1-C2-O2	-6.83	114.80	118.90
36	1	2321	A	OP1-P-OP2	-6.83	109.36	119.60
36	1	2783	U	C2-N3-C4	6.83	131.10	127.00
36	1	2963	C	P-O3'-C3'	-6.83	111.51	119.70
36	1	3022	G	N7-C8-N9	6.83	116.51	113.10
36	1	3148	U	C2-N3-C4	6.83	131.10	127.00
36	1	3308	C	C5-C4-N4	-6.83	115.42	120.20
85	5	101	G	N3-C2-N2	-6.83	115.12	119.90
85	5	237	G	C5-C6-O6	-6.83	124.50	128.60
85	5	2774	C	C6-N1-C2	-6.83	117.57	120.30
64	n8	45	MET	CG-SD-CE	6.83	111.13	100.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	67	A	N1-C2-N3	6.83	132.71	129.30
1	2	455	C	C5-C6-N1	-6.83	117.59	121.00
36	1	180	C	C5-C4-N4	-6.83	115.42	120.20
36	1	1292	C	OP1-P-OP2	6.83	129.84	119.60
36	1	2931	C	C5-C4-N4	-6.83	115.42	120.20
85	5	896	A	C5-C6-N1	6.83	121.11	117.70
85	5	1536	G	C5-N7-C8	-6.83	100.89	104.30
85	5	2628	A	C5-C6-N1	-6.83	114.29	117.70
85	5	2904	U	C6-N1-C1'	-6.83	111.64	121.20
1	2	244	A	O5'-P-OP1	-6.83	99.56	105.70
1	2	264	G	O5'-P-OP2	-6.83	99.56	105.70
1	2	1640	U	C4-C5-C6	-6.83	115.61	119.70
36	1	103	G	N1-C2-N3	6.83	128.00	123.90
36	1	414	U	N1-C2-N3	6.83	119.00	114.90
36	1	986	U	N3-C4-O4	-6.83	114.62	119.40
36	1	1213	G	OP1-P-OP2	-6.83	109.36	119.60
36	1	1900	A	C5-C6-N1	6.83	121.11	117.70
36	1	2147	A	N1-C2-N3	6.83	132.71	129.30
36	1	2642	A	C5-C6-N6	6.83	129.16	123.70
36	1	2974	U	O5'-P-OP2	6.83	118.89	110.70
80	6	168	A	O5'-P-OP2	6.83	118.89	110.70
80	6	961	U	N1-C2-N3	6.83	119.00	114.90
80	6	1011	G	N7-C8-N9	6.83	116.51	113.10
80	6	1608	U	N1-C2-O2	6.83	127.58	122.80
85	5	212	G	OP1-P-O3'	6.83	120.22	105.20
85	5	402	A	C4-C5-N7	-6.83	107.29	110.70
85	5	1177	G	C5-C6-N1	6.83	114.91	111.50
85	5	1801	U	N1-C2-O2	-6.83	118.02	122.80
85	5	1879	A	C5-C6-N1	-6.83	114.29	117.70
85	5	1949	G	N7-C8-N9	6.83	116.51	113.10
85	5	2726	C	OP2-P-O3'	6.83	120.22	105.20
1	2	129	U	C5-C4-O4	6.82	129.99	125.90
1	2	741	U	N1-C2-N3	6.82	119.00	114.90
36	1	878	G	N7-C8-N9	6.82	116.51	113.10
36	1	2609	A	OP1-P-OP2	-6.82	109.36	119.60
36	1	2723	U	O5'-P-OP1	-6.82	99.56	105.70
36	1	2935	U	O5'-P-OP2	-6.82	99.56	105.70
37	3	69	C	N3-C4-N4	6.82	122.78	118.00
39	L2	22	LEU	CB-CG-CD2	-6.82	99.40	111.00
80	6	879	G	C5-C6-N1	6.82	114.91	111.50
80	6	1475	A	C2-N3-C4	-6.82	107.19	110.60
85	5	219	A	C2-N3-C4	-6.82	107.19	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	698	U	C5-C6-N1	6.82	126.11	122.70
85	5	2170	U	O5'-P-OP2	-6.82	99.56	105.70
85	5	2288	G	C8-N9-C1'	-6.82	118.13	127.00
85	5	2884	C	OP1-P-OP2	-6.82	109.36	119.60
38	8	35	C	N3-C4-C5	6.82	124.63	121.90
36	1	499	G	N1-C2-N2	6.82	122.34	116.20
36	1	1933	A	O5'-P-OP2	6.82	118.89	110.70
36	1	3204	C	C5-C4-N4	-6.82	115.42	120.20
80	6	669	G	C2-N3-C4	6.82	115.31	111.90
85	5	2108	C	C4-C5-C6	6.82	120.81	117.40
85	5	2254	U	N1-C2-O2	-6.82	118.03	122.80
85	5	3202	G	N1-C6-O6	-6.82	115.81	119.90
1	2	1582	C	C6-N1-C2	6.82	123.03	120.30
36	1	87	U	N1-C2-N3	6.82	118.99	114.90
36	1	947	G	C4-C5-C6	6.82	122.89	118.80
36	1	968	G	N3-C4-N9	6.82	130.09	126.00
36	1	2939	G	N3-C4-C5	-6.82	125.19	128.60
85	5	434	U	N3-C4-O4	6.82	124.17	119.40
85	5	889	U	C6-N1-C2	6.82	125.09	121.00
85	5	1325	U	OP1-P-OP2	6.82	129.83	119.60
85	5	1423	C	C6-N1-C1'	6.82	128.99	120.80
38	8	54	A	C5-N7-C8	-6.82	100.49	103.90
1	2	1304	A	C5-C6-N1	6.82	121.11	117.70
1	2	1444	C	N3-C4-C5	6.82	124.63	121.90
1	2	1755	C	C4-C5-C6	6.82	120.81	117.40
36	1	901	G	C4-C5-N7	6.82	113.53	110.80
80	6	1004	U	C6-N1-C2	-6.82	116.91	121.00
80	6	1113	A	C4-C5-N7	-6.82	107.29	110.70
85	5	1195	A	N7-C8-N9	6.82	117.21	113.80
85	5	1640	G	N1-C2-N3	6.82	127.99	123.90
85	5	2133	U	N3-C4-O4	-6.82	114.63	119.40
85	5	2193	U	N1-C2-N3	6.82	118.99	114.90
85	5	2369	G	C8-N9-C4	6.82	109.13	106.40
37	7	8	G	N1-C2-N2	-6.82	110.06	116.20
11	S9	149	ARG	NE-CZ-NH1	-6.82	116.89	120.30
36	1	189	G	C6-N1-C2	-6.82	121.01	125.10
36	1	226	C	N3-C4-C5	-6.82	119.17	121.90
36	1	1675	G	C4-C5-N7	6.82	113.53	110.80
36	1	1906	G	N1-C2-N3	6.82	127.99	123.90
36	1	2873	U	OP1-P-OP2	-6.82	109.37	119.60
36	1	3386	G	C4-C5-C6	6.82	122.89	118.80
37	3	84	A	OP1-P-O3'	6.82	120.20	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1729	C	C5-C6-N1	-6.82	117.59	121.00
85	5	2552	C	C6-N1-C2	-6.82	117.57	120.30
1	2	845	A	C5-C6-N6	6.82	129.15	123.70
1	2	1043	U	N3-C2-O2	-6.82	117.43	122.20
36	1	43	A	N9-C4-C5	-6.82	103.07	105.80
36	1	52	A	O5'-P-OP1	-6.82	99.57	105.70
36	1	282	G	C5-C6-N1	-6.82	108.09	111.50
36	1	2917	G	N9-C4-C5	6.82	108.13	105.40
36	1	2940	A	N1-C2-N3	-6.82	125.89	129.30
36	1	3110	C	N1-C2-O2	-6.82	114.81	118.90
36	1	3181	C	C5-C4-N4	6.82	124.97	120.20
80	6	1138	A	C5-C6-N1	6.82	121.11	117.70
85	5	905	U	N3-C4-O4	6.82	124.17	119.40
85	5	1311	G	N1-C2-N3	6.82	127.99	123.90
85	5	1328	C	N1-C2-O2	-6.82	114.81	118.90
85	5	1443	G	C5-C6-O6	-6.82	124.51	128.60
85	5	2211	U	C5-C4-O4	6.82	129.99	125.90
85	5	2313	A	C5-N7-C8	-6.82	100.49	103.90
85	5	2883	U	N3-C4-O4	6.82	124.17	119.40
38	8	8	C	N1-C2-N3	6.82	123.97	119.20
1	2	8	U	C5-C6-N1	6.81	126.11	122.70
36	1	1313	G	C8-N9-C4	-6.81	103.67	106.40
36	1	1586	G	C2-N3-C4	-6.81	108.49	111.90
80	6	408	C	C5-C4-N4	6.81	124.97	120.20
80	6	1565	C	C4-C5-C6	-6.81	113.99	117.40
85	5	631	U	N3-C4-O4	6.81	124.17	119.40
85	5	1080	A	C2-N3-C4	-6.81	107.19	110.60
85	5	1518	U	N3-C4-O4	6.81	124.17	119.40
85	5	1873	U	N1-C2-N3	6.81	118.99	114.90
85	5	2259	A	N1-C2-N3	6.81	132.71	129.30
37	7	51	A	O5'-P-OP2	6.81	118.88	110.70
36	1	294	U	C2-N3-C4	6.81	131.09	127.00
36	1	826	G	C4-C5-N7	6.81	113.53	110.80
36	1	941	G	OP1-P-O3'	6.81	120.19	105.20
36	1	1003	A	N1-C6-N6	6.81	122.69	118.60
36	1	1186	G	C8-N9-C4	6.81	109.12	106.40
36	1	1860	G	C5-C6-O6	6.81	132.69	128.60
36	1	2700	G	N1-C2-N2	-6.81	110.07	116.20
36	1	3186	A	C5-C6-N1	6.81	121.11	117.70
80	6	119	A	N3-C4-C5	6.81	131.57	126.80
80	6	623	A	C2-N3-C4	-6.81	107.19	110.60
80	6	1006	C	C4-C5-C6	6.81	120.81	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1196	A	C5-C6-N6	6.81	129.15	123.70
80	6	1655	A	O5'-P-OP1	6.81	118.88	110.70
85	5	188	U	N1-C2-N3	-6.81	110.81	114.90
85	5	1116	G	OP1-P-O3'	-6.81	90.21	105.20
85	5	1210	U	N3-C2-O2	-6.81	117.43	122.20
85	5	2164	A	C5-C6-N1	-6.81	114.29	117.70
85	5	2437	G	N1-C6-O6	6.81	123.99	119.90
85	5	2891	U	N3-C4-C5	6.81	118.69	114.60
85	5	2956	A	C4-C5-N7	6.81	114.11	110.70
85	5	3321	C	C4-C5-C6	6.81	120.81	117.40
37	7	25	G	C5-N7-C8	6.81	107.71	104.30
38	8	157	U	O5'-P-OP2	-6.81	99.57	105.70
1	2	1442	C	C6-N1-C2	-6.81	117.58	120.30
36	1	251	G	N3-C4-C5	-6.81	125.19	128.60
36	1	314	U	C6-N1-C2	6.81	125.09	121.00
36	1	510	G	N7-C8-N9	6.81	116.51	113.10
36	1	996	A	N1-C2-N3	6.81	132.71	129.30
80	6	713	A	N7-C8-N9	6.81	117.21	113.80
85	5	908	G	O5'-P-OP2	-6.81	99.57	105.70
85	5	1478	C	C4-C5-C6	6.81	120.81	117.40
85	5	1935	G	C5-C6-N1	6.81	114.91	111.50
85	5	2965	U	N3-C2-O2	6.81	126.97	122.20
1	2	1041	U	C5-C6-N1	-6.81	119.30	122.70
1	2	1550	U	C6-N1-C2	-6.81	116.91	121.00
36	1	34	A	C2-N3-C4	-6.81	107.19	110.60
36	1	347	G	N1-C6-O6	6.81	123.99	119.90
36	1	1102	A	O4'-C1'-N9	-6.81	102.75	108.20
36	1	1662	G	O5'-P-OP2	-6.81	99.57	105.70
36	1	2809	C	C6-N1-C2	-6.81	117.58	120.30
36	1	3225	C	O5'-P-OP2	6.81	118.87	110.70
80	6	321	C	C5-C4-N4	-6.81	115.43	120.20
80	6	560	U	OP1-P-OP2	-6.81	109.39	119.60
80	6	1177	C	C6-N1-C2	6.81	123.02	120.30
85	5	440	A	C6-N1-C2	6.81	122.69	118.60
85	5	1068	C	C5-C4-N4	6.81	124.97	120.20
85	5	1922	A	C4-C5-C6	6.81	120.41	117.00
85	5	2190	U	C2-N3-C4	-6.81	122.91	127.00
1	2	715	G	O4'-C1'-N9	6.81	113.65	108.20
1	2	1268	U	N1-C2-N3	-6.81	110.81	114.90
1	2	1297	U	C5-C4-O4	6.81	129.99	125.90
36	1	951	A	OP2-P-O3'	6.81	120.18	105.20
36	1	1217	A	OP2-P-O3'	6.81	120.17	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1424	C	C6-N1-C2	-6.81	117.58	120.30
80	6	1294	G	C2-N3-C4	-6.81	108.50	111.90
80	6	1729	C	N3-C2-O2	6.81	126.67	121.90
85	5	236	G	O5'-P-OP1	6.81	118.87	110.70
85	5	1616	U	N1-C2-O2	-6.81	118.03	122.80
85	5	2185	G	C5-C6-N1	-6.81	108.10	111.50
85	5	3331	U	O5'-P-OP1	6.81	118.87	110.70
38	8	21	C	O5'-P-OP2	6.81	118.87	110.70
1	2	334	G	C5-C6-O6	-6.81	124.52	128.60
36	1	414	U	O5'-P-OP2	-6.81	99.58	105.70
36	1	2609	A	O5'-P-OP2	-6.81	99.58	105.70
80	6	33	U	C5-C4-O4	6.81	129.98	125.90
80	6	50	C	OP1-P-O3'	6.81	120.17	105.20
80	6	696	C	N3-C2-O2	6.81	126.66	121.90
85	5	784	A	N1-C6-N6	-6.81	114.52	118.60
1	2	421	A	C8-N9-C4	6.80	108.52	105.80
36	1	382	U	C2-N3-C4	-6.80	122.92	127.00
36	1	548	G	C5-C6-O6	-6.80	124.52	128.60
36	1	584	G	C4-C5-C6	6.80	122.88	118.80
36	1	2193	U	C4-C5-C6	6.80	123.78	119.70
36	1	2215	A	C5-N7-C8	-6.80	100.50	103.90
36	1	3018	C	C4-C5-C6	6.80	120.80	117.40
37	3	41	G	C4-C5-C6	6.80	122.88	118.80
52	M6	49	ARG	NE-CZ-NH2	-6.80	116.90	120.30
80	6	55	A	C5-N7-C8	-6.80	100.50	103.90
80	6	105	A	C2-N3-C4	-6.80	107.20	110.60
80	6	534	A	N7-C8-N9	-6.80	110.40	113.80
80	6	666	U	C5-C6-N1	6.80	126.10	122.70
80	6	1317	C	N1-C2-N3	-6.80	114.44	119.20
85	5	303	G	N9-C4-C5	6.80	108.12	105.40
85	5	1343	A	C6-C5-N7	-6.80	127.54	132.30
85	5	1367	G	C4-C5-C6	6.80	122.88	118.80
85	5	1538	G	N1-C2-N3	6.80	127.98	123.90
85	5	2364	G	OP1-P-O3'	6.80	120.17	105.20
37	7	102	A	C6-C5-N7	-6.80	127.54	132.30
36	1	2576	G	C6-C5-N7	-6.80	126.32	130.40
36	1	2576	G	C4-C5-N7	6.80	113.52	110.80
36	1	2816	G	OP1-P-OP2	6.80	129.81	119.60
36	1	2830	G	C4-C5-C6	6.80	122.88	118.80
36	1	2847	A	C4-C5-N7	6.80	114.10	110.70
38	4	124	G	C5-N7-C8	-6.80	100.90	104.30
80	6	1121	C	OP1-P-OP2	-6.80	109.40	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1097	G	C2-N3-C4	-6.80	108.50	111.90
1	2	1542	A	C5-N7-C8	-6.80	100.50	103.90
36	1	331	G	N7-C8-N9	6.80	116.50	113.10
36	1	1001	G	C8-N9-C4	-6.80	103.68	106.40
36	1	1408	G	C6-C5-N7	-6.80	126.32	130.40
36	1	2288	G	C4-C5-C6	6.80	122.88	118.80
36	1	3177	G	OP1-P-OP2	6.80	129.80	119.60
36	1	3250	U	N3-C4-O4	-6.80	114.64	119.40
36	1	3309	G	C4-C5-C6	6.80	122.88	118.80
80	6	947	U	N3-C2-O2	6.80	126.96	122.20
80	6	1327	C	N3-C2-O2	-6.80	117.14	121.90
85	5	213	A	N7-C8-N9	6.80	117.20	113.80
85	5	1205	A	C5-C6-N6	-6.80	118.26	123.70
85	5	1497	C	C6-N1-C2	-6.80	117.58	120.30
85	5	1785	U	N3-C4-C5	-6.80	110.52	114.60
85	5	1800	A	C4-C5-N7	-6.80	107.30	110.70
37	7	45	A	C4-C5-C6	-6.80	113.60	117.00
37	7	116	C	N3-C4-N4	6.80	122.76	118.00
36	1	582	G	C8-N9-C4	6.80	109.12	106.40
36	1	783	A	C2-N3-C4	-6.80	107.20	110.60
36	1	1608	C	N3-C4-C5	-6.80	119.18	121.90
36	1	2344	U	O5'-P-OP1	6.80	118.86	110.70
36	1	2604	U	OP1-P-OP2	-6.80	109.40	119.60
80	6	154	G	N3-C4-N9	6.80	130.08	126.00
80	6	674	C	N1-C2-O2	6.80	122.98	118.90
85	5	124	U	C2-N3-C4	-6.80	122.92	127.00
85	5	964	G	C6-N1-C2	-6.80	121.02	125.10
85	5	1170	A	C8-N9-C4	6.80	108.52	105.80
85	5	1170	A	C6-C5-N7	-6.80	127.54	132.30
85	5	2890	A	N1-C2-N3	6.80	132.70	129.30
85	5	2985	C	N1-C2-O2	6.80	122.98	118.90
85	5	3098	G	C5-N7-C8	-6.80	100.90	104.30
1	2	714	C	C6-N1-C2	6.80	123.02	120.30
36	1	98	G	N7-C8-N9	6.80	116.50	113.10
36	1	862	U	C2-N3-C4	-6.80	122.92	127.00
36	1	2247	G	C5-C6-N1	-6.80	108.10	111.50
36	1	2974	U	C5-C4-O4	-6.80	121.82	125.90
85	5	1758	G	N1-C2-N2	6.80	122.32	116.20
85	5	2958	A	C5-N7-C8	-6.80	100.50	103.90
1	2	1289	C	N3-C4-C5	6.80	124.62	121.90
1	2	1403	C	N3-C4-C5	-6.80	119.18	121.90
1	2	1706	U	OP1-P-OP2	-6.80	109.41	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	802	C	O5'-P-OP1	-6.80	99.58	105.70
36	1	1219	C	N3-C2-O2	-6.80	117.14	121.90
36	1	1469	C	O5'-P-OP1	-6.80	99.58	105.70
36	1	2343	C	OP2-P-O3'	6.80	120.15	105.20
36	1	2589	G	C8-N9-C4	-6.80	103.68	106.40
36	1	3174	A	C4-C5-C6	6.80	120.40	117.00
80	6	66	U	N1-C2-N3	-6.80	110.82	114.90
80	6	653	C	N3-C2-O2	-6.80	117.14	121.90
80	6	960	U	N3-C2-O2	-6.80	117.44	122.20
80	6	1107	G	N1-C2-N3	6.80	127.98	123.90
85	5	363	G	C6-C5-N7	-6.80	126.32	130.40
85	5	1928	G	C8-N9-C4	-6.80	103.68	106.40
85	5	2417	U	C2-N1-C1'	6.80	125.86	117.70
85	5	2421	U	C5-C4-O4	-6.80	121.82	125.90
85	5	2695	A	N1-C2-N3	6.80	132.70	129.30
85	5	3116	G	C5-C6-N1	6.80	114.90	111.50
85	5	3244	A	C5-C6-N6	6.80	129.14	123.70
37	7	74	C	N3-C4-N4	-6.80	113.24	118.00
1	2	1336	U	N3-C4-C5	-6.79	110.52	114.60
1	2	1486	A	C6-C5-N7	-6.79	127.54	132.30
36	1	1859	A	C6-N1-C2	-6.79	114.52	118.60
36	1	2690	G	C5-C6-N1	6.79	114.90	111.50
36	1	2795	U	O5'-P-OP2	6.79	118.85	110.70
36	1	2927	C	C6-N1-C2	6.79	123.02	120.30
80	6	15	U	N1-C2-N3	6.79	118.98	114.90
85	5	858	A	C6-C5-N7	-6.79	127.54	132.30
85	5	1899	G	C6-N1-C2	-6.79	121.02	125.10
85	5	1928	G	C6-N1-C2	6.79	129.18	125.10
38	8	115	C	N3-C2-O2	6.79	126.66	121.90
36	1	665	A	N7-C8-N9	6.79	117.20	113.80
36	1	684	G	C4-C5-C6	-6.79	114.72	118.80
36	1	2864	A	C2-N3-C4	-6.79	107.20	110.60
80	6	991	G	OP1-P-OP2	6.79	129.79	119.60
85	5	114	A	C5-C6-N6	-6.79	118.27	123.70
85	5	772	U	N3-C4-O4	6.79	124.16	119.40
85	5	1485	G	N1-C6-O6	6.79	123.98	119.90
85	5	1823	A	N7-C8-N9	6.79	117.20	113.80
85	5	2124	G	C5-N7-C8	6.79	107.70	104.30
1	2	399	A	OP1-P-OP2	6.79	129.79	119.60
1	2	552	G	O5'-P-OP1	-6.79	99.59	105.70
1	2	1746	A	C2-N3-C4	-6.79	107.20	110.60
36	1	87	U	OP1-P-OP2	6.79	129.79	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	184	U	OP1-P-OP2	6.79	129.79	119.60
36	1	952	A	C5-N7-C8	-6.79	100.50	103.90
36	1	1813	A	N1-C2-N3	6.79	132.70	129.30
37	3	101	G	C4-C5-C6	6.79	122.88	118.80
80	6	622	A	OP1-P-OP2	-6.79	109.41	119.60
80	6	722	G	N1-C6-O6	6.79	123.97	119.90
80	6	725	U	N3-C2-O2	-6.79	117.45	122.20
80	6	1103	U	N3-C2-O2	-6.79	117.45	122.20
85	5	378	A	C5-C6-N1	-6.79	114.30	117.70
85	5	683	U	O5'-P-OP1	-6.79	99.59	105.70
85	5	1003	A	C8-N9-C4	-6.79	103.08	105.80
85	5	1296	C	C2-N3-C4	-6.79	116.50	119.90
85	5	1790	G	N1-C2-N2	-6.79	110.09	116.20
85	5	2960	C	O5'-P-OP2	-6.79	99.59	105.70
85	5	3078	U	OP1-P-OP2	6.79	129.79	119.60
85	5	3109	G	N7-C8-N9	6.79	116.50	113.10
36	1	394	G	N1-C6-O6	-6.79	115.83	119.90
36	1	824	C	C4-C5-C6	6.79	120.80	117.40
36	1	1105	A	C8-N9-C4	6.79	108.52	105.80
36	1	1134	G	N1-C2-N3	6.79	127.97	123.90
80	6	1284	C	N3-C2-O2	-6.79	117.15	121.90
85	5	98	G	OP2-P-O3'	6.79	120.14	105.20
85	5	676	G	N1-C2-N3	6.79	127.97	123.90
85	5	1346	G	C5-N7-C8	-6.79	100.91	104.30
85	5	1598	G	C4-C5-N7	6.79	113.52	110.80
85	5	1898	G	OP1-P-OP2	-6.79	109.41	119.60
85	5	3364	C	C5-C4-N4	-6.79	115.45	120.20
1	2	943	U	O5'-P-OP2	-6.79	99.59	105.70
1	2	1750	G	C2-N3-C4	6.79	115.29	111.90
36	1	155	G	OP1-P-OP2	-6.79	109.42	119.60
36	1	984	G	N7-C8-N9	6.79	116.49	113.10
36	1	1115	G	C4-C5-C6	6.79	122.87	118.80
36	1	1477	A	C2-N3-C4	-6.79	107.20	110.60
36	1	2507	C	O4'-C1'-N1	6.79	113.63	108.20
36	1	2697	A	N7-C8-N9	6.79	117.19	113.80
80	6	482	U	N3-C4-O4	6.79	124.15	119.40
80	6	1179	G	OP1-P-OP2	-6.79	109.42	119.60
85	5	208	C	C2-N1-C1'	6.79	126.27	118.80
85	5	377	A	N1-C2-N3	-6.79	125.91	129.30
85	5	829	U	C5-C6-N1	-6.79	119.31	122.70
85	5	2367	A	C4-C5-N7	6.79	114.09	110.70
85	5	2418	G	N1-C2-N3	-6.79	119.83	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	63	G	N3-C4-N9	-6.79	121.93	126.00
1	2	969	G	C8-N9-C4	-6.79	103.69	106.40
36	1	49	A	C5-C6-N6	6.79	129.13	123.70
36	1	294	U	C6-N1-C1'	6.79	130.70	121.20
36	1	1520	G	OP1-P-OP2	-6.79	109.42	119.60
36	1	1902	G	N7-C8-N9	6.79	116.49	113.10
36	1	2878	G	OP1-P-O3'	6.79	120.13	105.20
85	5	40	A	C4-C5-C6	6.79	120.39	117.00
1	2	333	A	C5-C6-N1	6.79	121.09	117.70
1	2	483	A	N1-C6-N6	6.79	122.67	118.60
36	1	881	C	OP1-P-O3'	6.79	120.13	105.20
36	1	1000	C	N1-C2-O2	-6.79	114.83	118.90
36	1	1151	U	C2-N3-C4	6.79	131.07	127.00
36	1	1432	C	N1-C2-N3	6.79	123.95	119.20
36	1	1473	G	C2-N3-C4	-6.79	108.51	111.90
36	1	1705	U	N3-C2-O2	-6.79	117.45	122.20
36	1	1778	G	C5-N7-C8	6.79	107.69	104.30
36	1	1897	G	C8-N9-C4	-6.79	103.69	106.40
36	1	2243	A	O5'-P-OP1	-6.79	99.59	105.70
36	1	2618	G	C5-C6-N1	6.79	114.89	111.50
80	6	1266	U	C2-N3-C4	6.79	131.07	127.00
85	5	907	G	OP1-P-OP2	6.79	129.78	119.60
85	5	1205	A	N1-C6-N6	-6.79	114.53	118.60
85	5	1896	A	C5-C6-N6	-6.79	118.27	123.70
85	5	2136	C	N3-C4-C5	-6.79	119.19	121.90
85	5	2862	U	N1-C2-N3	6.79	118.97	114.90
85	5	3078	U	C2-N1-C1'	6.79	125.84	117.70
1	2	361	C	O5'-P-OP2	-6.78	99.59	105.70
36	1	259	C	C5-C6-N1	-6.78	117.61	121.00
36	1	706	A	O5'-P-OP2	-6.78	99.59	105.70
36	1	1406	A	N3-C4-C5	-6.78	122.05	126.80
36	1	1609	C	N3-C4-N4	6.78	122.75	118.00
36	1	1904	C	O5'-P-OP2	-6.78	99.59	105.70
80	6	176	C	N1-C2-N3	6.78	123.95	119.20
80	6	347	G	C5-N7-C8	6.78	107.69	104.30
80	6	559	C	N3-C4-N4	-6.78	113.25	118.00
80	6	1148	C	O5'-P-OP2	-6.78	99.60	105.70
85	5	79	U	N1-C2-N3	6.78	118.97	114.90
85	5	376	G	C4-C5-N7	6.78	113.51	110.80
85	5	579	G	C4-C5-N7	-6.78	108.09	110.80
85	5	950	G	N1-C2-N3	6.78	127.97	123.90
85	5	2269	U	C6-N1-C2	-6.78	116.93	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2327	U	C6-N1-C2	6.78	125.07	121.00
85	5	3056	U	O5'-P-OP1	-6.78	99.59	105.70
85	5	3311	C	C4-C5-C6	-6.78	114.01	117.40
85	5	3325	G	N3-C4-N9	-6.78	121.93	126.00
37	7	60	G	O4'-C1'-N9	6.78	113.63	108.20
1	2	5	U	OP1-P-OP2	-6.78	109.43	119.60
1	2	314	C	N3-C4-C5	-6.78	119.19	121.90
1	2	573	C	OP1-P-OP2	6.78	129.77	119.60
1	2	1720	G	O5'-P-OP2	-6.78	99.60	105.70
36	1	1316	C	N3-C2-O2	-6.78	117.15	121.90
80	6	1787	C	N1-C2-O2	-6.78	114.83	118.90
85	5	576	C	N1-C2-N3	6.78	123.95	119.20
85	5	1606	U	N3-C2-O2	-6.78	117.45	122.20
38	8	51	G	N3-C2-N2	-6.78	115.15	119.90
1	2	1131	C	N3-C4-N4	-6.78	113.25	118.00
1	2	1436	G	C5-N7-C8	6.78	107.69	104.30
36	1	2687	G	N3-C4-C5	-6.78	125.21	128.60
37	3	107	C	C2-N3-C4	6.78	123.29	119.90
85	5	73	C	N3-C2-O2	-6.78	117.15	121.90
85	5	1402	C	C5-C4-N4	-6.78	115.45	120.20
85	5	2699	G	C5-C6-N1	-6.78	108.11	111.50
85	5	2714	G	N1-C6-O6	6.78	123.97	119.90
38	8	40	A	C2-N3-C4	-6.78	107.21	110.60
1	2	1637	G	N9-C4-C5	6.78	108.11	105.40
36	1	1774	C	N1-C2-O2	6.78	122.97	118.90
38	4	30	C	OP2-P-O3'	6.78	120.11	105.20
80	6	510	G	N1-C6-O6	6.78	123.97	119.90
80	6	543	C	C4-C5-C6	-6.78	114.01	117.40
85	5	773	G	C6-C5-N7	-6.78	126.33	130.40
85	5	2434	U	N3-C2-O2	-6.78	117.45	122.20
85	5	2779	A	O5'-P-OP1	-6.78	99.60	105.70
85	5	3145	C	C5'-C4'-O4'	-6.78	100.97	109.10
1	2	606	A	C5-N7-C8	-6.78	100.51	103.90
36	1	960	U	N3-C4-O4	-6.78	114.66	119.40
36	1	1051	U	N1-C2-O2	-6.78	118.06	122.80
36	1	1183	C	C6-N1-C1'	-6.78	112.67	120.80
36	1	1193	A	N3-C4-C5	6.78	131.54	126.80
36	1	2550	U	C5-C6-N1	-6.78	119.31	122.70
37	3	113	C	OP1-P-OP2	6.78	129.77	119.60
80	6	655	G	C4-C5-N7	6.78	113.51	110.80
80	6	1327	C	N1-C2-O2	6.78	122.97	118.90
85	5	1543	G	N3-C4-C5	-6.78	125.21	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3231	U	O5'-P-OP1	6.78	118.83	110.70
1	2	1593	G	C5-C6-N1	6.78	114.89	111.50
36	1	220	G	N3-C4-N9	-6.78	121.94	126.00
36	1	1745	C	N1-C2-N3	6.78	123.94	119.20
36	1	2982	A	C5-N7-C8	6.78	107.29	103.90
36	1	3043	C	N1-C2-O2	-6.78	114.83	118.90
36	1	3132	C	N3-C4-N4	-6.78	113.26	118.00
37	3	72	A	O4'-C1'-N9	-6.78	102.78	108.20
80	6	542	A	P-O3'-C3'	6.78	127.83	119.70
80	6	1169	G	N7-C8-N9	6.78	116.49	113.10
85	5	288	C	C5-C4-N4	-6.78	115.46	120.20
85	5	368	G	C4-C5-C6	6.78	122.86	118.80
85	5	896	A	O5'-P-OP2	-6.78	99.60	105.70
85	5	1188	U	N1-C2-O2	-6.78	118.06	122.80
85	5	1763	U	C6-N1-C2	-6.78	116.94	121.00
85	5	2508	U	N3-C2-O2	6.78	126.94	122.20
38	8	133	G	C6-N1-C2	-6.78	121.03	125.10
1	2	553	G	C5-C6-N1	-6.77	108.11	111.50
36	1	656	A	C4-C5-C6	6.77	120.39	117.00
36	1	1654	A	N1-C2-N3	6.77	132.69	129.30
85	5	2867	C	C5-C6-N1	6.77	124.39	121.00
85	5	3340	G	OP1-P-OP2	-6.77	109.44	119.60
1	2	1083	G	OP1-P-OP2	-6.77	109.44	119.60
36	1	418	A	OP1-P-OP2	6.77	129.76	119.60
36	1	611	A	N7-C8-N9	6.77	117.19	113.80
36	1	837	A	N1-C2-N3	6.77	132.69	129.30
36	1	927	C	C2-N1-C1'	6.77	126.25	118.80
38	4	12	A	C5-N7-C8	-6.77	100.51	103.90
38	4	129	C	C6-N1-C2	6.77	123.01	120.30
80	6	1204	A	N1-C2-N3	6.77	132.69	129.30
85	5	529	A	C8-N9-C4	-6.77	103.09	105.80
85	5	774	G	C4-N9-C1'	6.77	135.30	126.50
85	5	1206	G	N1-C6-O6	-6.77	115.84	119.90
85	5	2429	G	C4-C5-N7	-6.77	108.09	110.80
85	5	2662	G	N1-C2-N3	6.77	127.96	123.90
85	5	3106	A	N1-C2-N3	6.77	132.69	129.30
37	7	44	C	N3-C4-C5	-6.77	119.19	121.90
1	2	1633	U	N1-C2-N3	6.77	118.96	114.90
36	1	370	U	C2-N1-C1'	6.77	125.83	117.70
36	1	2187	G	N3-C4-N9	-6.77	121.94	126.00
38	4	43	A	C5-N7-C8	-6.77	100.51	103.90
85	5	405	U	C5-C6-N1	6.77	126.08	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1081	U	C2-N3-C4	6.77	131.06	127.00
85	5	1115	G	N3-C2-N2	6.77	124.64	119.90
85	5	1415	U	N3-C2-O2	-6.77	117.46	122.20
85	5	2622	C	OP1-P-OP2	-6.77	109.44	119.60
36	1	128	G	N1-C6-O6	6.77	123.96	119.90
36	1	1332	A	C8-N9-C4	-6.77	103.09	105.80
36	1	1451	C	OP1-P-OP2	-6.77	109.45	119.60
36	1	2858	U	C6-N1-C2	-6.77	116.94	121.00
80	6	1629	G	C4-C5-C6	6.77	122.86	118.80
85	5	717	C	OP1-P-OP2	6.77	129.75	119.60
85	5	2340	U	C2-N3-C4	-6.77	122.94	127.00
85	5	2385	G	C4-C5-N7	-6.77	108.09	110.80
85	5	2968	G	C4-C5-C6	-6.77	114.74	118.80
36	1	1345	G	OP2-P-O3'	6.77	120.09	105.20
36	1	2229	A	C5-C6-N1	6.77	121.08	117.70
36	1	2910	A	C5-C6-N1	6.77	121.08	117.70
38	4	58	G	C8-N9-C4	6.77	109.11	106.40
39	L2	198	LYS	CD-CE-NZ	6.77	127.27	111.70
85	5	678	G	C2-N3-C4	-6.77	108.52	111.90
85	5	681	U	C2-N3-C4	6.77	131.06	127.00
85	5	938	C	OP1-P-O3'	6.77	120.09	105.20
85	5	1183	C	N1-C2-O2	-6.77	114.84	118.90
85	5	1339	C	N3-C4-N4	6.77	122.74	118.00
37	3	56	A	N7-C8-N9	-6.77	110.42	113.80
85	5	287	G	N3-C4-N9	6.77	130.06	126.00
85	5	1536	G	C2-N3-C4	-6.77	108.52	111.90
85	5	2113	A	O5'-P-OP2	-6.77	99.61	105.70
85	5	2514	U	C5-C6-N1	6.77	126.08	122.70
1	2	195	G	N3-C4-C5	-6.76	125.22	128.60
1	2	1218	C	C5-C6-N1	-6.76	117.62	121.00
1	2	1244	G	C8-N9-C4	-6.76	103.69	106.40
36	1	33	G	OP1-P-OP2	6.76	129.75	119.60
36	1	339	C	O5'-P-OP2	6.76	118.82	110.70
36	1	2614	G	N1-C2-N2	-6.76	110.11	116.20
36	1	3004	C	N3-C2-O2	6.76	126.64	121.90
80	6	1747	G	N1-C6-O6	-6.76	115.84	119.90
85	5	416	A	OP1-P-OP2	-6.76	109.45	119.60
85	5	1129	A	C6-N1-C2	-6.76	114.54	118.60
85	5	1211	U	C5-C4-O4	-6.76	121.84	125.90
85	5	2158	A	N1-C2-N3	6.76	132.68	129.30
85	5	2507	C	C5-C6-N1	6.76	124.38	121.00
85	5	2523	A	C5-N7-C8	6.76	107.28	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2765	C	N3-C2-O2	6.76	126.64	121.90
52	m6	84	LEU	CA-CB-CG	-6.76	99.74	115.30
1	2	1081	U	C5-C6-N1	6.76	126.08	122.70
1	2	1227	A	N7-C8-N9	6.76	117.18	113.80
36	1	351	A	O4'-C1'-N9	-6.76	102.79	108.20
36	1	895	A	N3-C4-N9	-6.76	121.99	127.40
36	1	1652	G	C8-N9-C4	6.76	109.11	106.40
36	1	1940	G	C2-N3-C4	-6.76	108.52	111.90
37	3	112	G	N7-C8-N9	6.76	116.48	113.10
80	6	1078	C	C5-C6-N1	6.76	124.38	121.00
1	2	840	U	N3-C4-O4	6.76	124.13	119.40
1	2	1296	A	N1-C6-N6	6.76	122.66	118.60
1	2	1638	A	C2-N3-C4	-6.76	107.22	110.60
1	2	1715	A	C2-N3-C4	-6.76	107.22	110.60
36	1	395	A	N1-C2-N3	6.76	132.68	129.30
36	1	540	U	O5'-P-OP1	-6.76	99.61	105.70
36	1	806	A	N1-C6-N6	6.76	122.66	118.60
36	1	1142	G	C8-N9-C1'	-6.76	118.21	127.00
36	1	2213	A	N1-C2-N3	6.76	132.68	129.30
36	1	2271	A	C5-C6-N6	6.76	129.11	123.70
36	1	2396	G	C4-C5-C6	6.76	122.86	118.80
36	1	2550	U	O5'-P-OP1	-6.76	99.61	105.70
36	1	2822	U	N3-C4-C5	-6.76	110.54	114.60
36	1	3298	C	N3-C4-N4	6.76	122.73	118.00
80	6	649	U	C6-N1-C2	6.76	125.06	121.00
17	c5	111	MET	CG-SD-CE	6.76	111.02	100.20
85	5	416	A	N1-C6-N6	6.76	122.66	118.60
85	5	825	U	C5-C6-N1	-6.76	119.32	122.70
85	5	1005	G	C4-C5-N7	6.76	113.50	110.80
85	5	2626	A	O5'-P-OP2	6.76	118.81	110.70
85	5	3006	A	C2-N3-C4	-6.76	107.22	110.60
38	8	36	G	C2-N3-C4	-6.76	108.52	111.90
1	2	362	G	N1-C2-N3	6.76	127.96	123.90
1	2	554	C	C2-N3-C4	6.76	123.28	119.90
1	2	914	C	N3-C4-N4	6.76	122.73	118.00
1	2	1550	U	C4-C5-C6	6.76	123.75	119.70
36	1	267	G	C6-N1-C2	6.76	129.16	125.10
36	1	334	A	O5'-P-OP2	-6.76	99.62	105.70
36	1	397	A	N3-C4-C5	-6.76	122.07	126.80
36	1	570	A	N7-C8-N9	6.76	117.18	113.80
36	1	1143	A	C4-C5-C6	6.76	120.38	117.00
36	1	1587	A	C2-N3-C4	-6.76	107.22	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2402	A	N1-C2-N3	6.76	132.68	129.30
36	1	2714	G	N1-C6-O6	6.76	123.96	119.90
36	1	3034	C	OP1-P-O3'	6.76	120.07	105.20
36	1	3375	A	N9-C4-C5	6.76	108.50	105.80
38	4	38	U	N1-C2-O2	6.76	127.53	122.80
38	4	71	A	C5-C6-N1	6.76	121.08	117.70
85	5	20	A	OP1-P-OP2	6.76	129.74	119.60
85	5	44	U	N3-C4-C5	6.76	118.66	114.60
85	5	341	G	OP1-P-OP2	-6.76	109.46	119.60
85	5	506	U	N1-C2-O2	-6.76	118.07	122.80
85	5	662	U	N1-C2-N3	6.76	118.96	114.90
85	5	2371	G	N1-C2-N2	-6.76	110.12	116.20
85	5	3171	U	C5-C6-N1	-6.76	119.32	122.70
1	2	780	G	C6-C5-N7	-6.76	126.34	130.40
1	2	901	U	C6-N1-C2	-6.76	116.94	121.00
36	1	429	U	C4-C5-C6	6.76	123.75	119.70
36	1	803	C	N3-C2-O2	6.76	126.63	121.90
36	1	1915	A	C6-N1-C2	-6.76	114.55	118.60
36	1	2190	U	N1-C2-N3	6.76	118.95	114.90
36	1	2345	A	C4-C5-C6	6.76	120.38	117.00
36	1	2765	C	C5-C4-N4	-6.76	115.47	120.20
80	6	3	U	C4-C5-C6	6.76	123.75	119.70
80	6	646	C	C2-N3-C4	6.76	123.28	119.90
85	5	1067	U	N3-C4-C5	-6.76	110.55	114.60
85	5	2186	U	N3-C4-C5	-6.76	110.55	114.60
1	2	407	A	N1-C6-N6	-6.76	114.55	118.60
1	2	1654	A	C5-C6-N6	6.76	129.10	123.70
36	1	5	G	O5'-P-OP2	-6.76	99.62	105.70
36	1	209	A	N9-C4-C5	-6.76	103.10	105.80
36	1	341	G	N9-C4-C5	6.76	108.10	105.40
36	1	1566	A	N1-C6-N6	6.76	122.65	118.60
36	1	2602	G	N7-C8-N9	-6.76	109.72	113.10
36	1	3236	U	N3-C2-O2	-6.76	117.47	122.20
37	3	101	G	N1-C2-N2	-6.76	110.12	116.20
38	4	89	A	N1-C6-N6	6.76	122.65	118.60
38	4	92	A	C5-N7-C8	-6.76	100.52	103.90
80	6	1531	G	C5-C6-N1	6.76	114.88	111.50
80	6	1601	G	N3-C2-N2	6.76	124.63	119.90
85	5	523	A	N1-C6-N6	6.76	122.65	118.60
85	5	621	A	C5-C6-N1	6.76	121.08	117.70
85	5	1492	G	N3-C2-N2	-6.76	115.17	119.90
38	8	137	C	C6-N1-C2	6.76	123.00	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1313	G	C6-N1-C2	-6.75	121.05	125.10
36	1	1854	C	C2-N1-C1'	6.75	126.23	118.80
36	1	3099	C	N1-C2-N3	-6.75	114.47	119.20
36	1	3256	G	N3-C4-C5	6.75	131.98	128.60
80	6	328	A	N7-C8-N9	6.75	117.18	113.80
85	5	600	G	OP1-P-O3'	6.75	120.06	105.20
85	5	645	A	C4-C5-N7	-6.75	107.32	110.70
85	5	1748	G	C8-N9-C4	-6.75	103.70	106.40
85	5	1937	U	C2-N3-C4	-6.75	122.95	127.00
85	5	2706	G	O5'-P-OP1	6.75	118.81	110.70
36	1	82	C	C2-N3-C4	-6.75	116.52	119.90
36	1	596	C	C5-C6-N1	-6.75	117.62	121.00
36	1	1853	U	N1-C2-O2	6.75	127.53	122.80
36	1	2557	A	C4-C5-C6	6.75	120.38	117.00
36	1	2748	A	N3-C4-C5	6.75	131.53	126.80
36	1	3004	C	C6-N1-C2	6.75	123.00	120.30
36	1	3048	A	N9-C4-C5	6.75	108.50	105.80
36	1	3112	G	O5'-P-OP2	-6.75	99.62	105.70
36	1	3134	A	C5-C6-N1	6.75	121.08	117.70
49	M3	27	ASP	CB-CG-OD2	6.75	124.38	118.30
80	6	269	G	C4-C5-N7	-6.75	108.10	110.80
80	6	523	G	N3-C4-C5	-6.75	125.22	128.60
85	5	128	G	C5-N7-C8	6.75	107.68	104.30
85	5	419	G	N7-C8-N9	-6.75	109.72	113.10
85	5	1477	A	C4-C5-N7	6.75	114.08	110.70
37	7	117	A	C4-C5-C6	6.75	120.38	117.00
1	2	1543	U	N3-C2-O2	-6.75	117.47	122.20
1	2	1759	A	N1-C6-N6	6.75	122.65	118.60
36	1	394	G	O5'-P-OP2	-6.75	99.62	105.70
36	1	639	G	C2-N3-C4	-6.75	108.52	111.90
36	1	1308	A	C5-C6-N6	6.75	129.10	123.70
36	1	1384	U	N3-C4-C5	-6.75	110.55	114.60
37	3	121	U	C6-N1-C2	6.75	125.05	121.00
80	6	113	U	O5'-P-OP2	-6.75	99.62	105.70
80	6	1013	A	OP1-P-O3'	6.75	120.05	105.20
80	6	1018	U	N3-C2-O2	6.75	126.93	122.20
80	6	1027	A	C5-N7-C8	-6.75	100.52	103.90
80	6	1064	G	N1-C6-O6	6.75	123.95	119.90
85	5	209	A	N1-C6-N6	6.75	122.65	118.60
85	5	923	C	OP1-P-OP2	-6.75	109.47	119.60
85	5	1259	A	C2-N3-C4	6.75	113.97	110.60
85	5	1904	C	C6-N1-C2	6.75	123.00	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2287	C	C5-C4-N4	6.75	124.93	120.20
85	5	2659	G	C5-C6-O6	-6.75	124.55	128.60
85	5	2887	A	C2-N3-C4	6.75	113.97	110.60
85	5	3037	U	N3-C4-O4	6.75	124.13	119.40
85	5	3251	U	C5-C4-O4	6.75	129.95	125.90
38	8	150	G	N1-C2-N2	-6.75	110.12	116.20
1	2	969	G	N3-C4-C5	-6.75	125.22	128.60
36	1	1300	G	N3-C4-C5	-6.75	125.22	128.60
36	1	2977	G	N3-C4-N9	6.75	130.05	126.00
36	1	3355	U	C2-N1-C1'	6.75	125.80	117.70
37	3	2	G	C5-C6-O6	6.75	132.65	128.60
85	5	228	U	OP1-P-OP2	-6.75	109.47	119.60
85	5	995	U	C6-N1-C2	-6.75	116.95	121.00
85	5	1589	A	C5-C6-N1	6.75	121.08	117.70
85	5	2974	U	O5'-P-OP1	-6.75	99.62	105.70
38	8	116	G	N1-C6-O6	6.75	123.95	119.90
36	1	29	C	C6-N1-C2	6.75	123.00	120.30
36	1	285	A	C6-N1-C2	-6.75	114.55	118.60
36	1	609	G	N7-C8-N9	6.75	116.47	113.10
36	1	1637	A	C5-N7-C8	6.75	107.27	103.90
80	6	266	A	C6-N1-C2	-6.75	114.55	118.60
80	6	783	G	C6-C5-N7	6.75	134.45	130.40
80	6	1110	G	C4-C5-N7	-6.75	108.10	110.80
85	5	193	C	N3-C4-C5	6.75	124.60	121.90
85	5	635	G	C5-N7-C8	-6.75	100.93	104.30
85	5	654	C	O5'-P-OP2	-6.75	99.63	105.70
85	5	666	A	C2-N3-C4	-6.75	107.22	110.60
85	5	1231	A	C2-N3-C4	-6.75	107.23	110.60
85	5	1714	A	N7-C8-N9	6.75	117.17	113.80
85	5	2917	G	C6-N1-C2	-6.75	121.05	125.10
37	7	52	G	C4-C5-N7	-6.75	108.10	110.80
38	8	6	U	OP1-P-O3'	6.75	120.05	105.20
38	8	86	U	N1-C2-N3	-6.75	110.85	114.90
1	2	299	A	C2-N3-C4	6.75	113.97	110.60
1	2	621	A	C4-C5-N7	6.75	114.07	110.70
1	2	1097	G	N1-C6-O6	6.75	123.95	119.90
36	1	30	G	OP1-P-OP2	-6.75	109.48	119.60
36	1	641	C	C4-C5-C6	6.75	120.77	117.40
36	1	797	U	OP1-P-OP2	-6.75	109.48	119.60
36	1	1001	G	N9-C4-C5	6.75	108.10	105.40
36	1	1295	G	C5-C6-N1	6.75	114.87	111.50
36	1	1340	G	N1-C2-N3	6.75	127.95	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2230	C	O5'-P-OP1	-6.75	99.63	105.70
36	1	2605	G	C5-N7-C8	-6.75	100.93	104.30
36	1	2813	A	N1-C2-N3	6.75	132.67	129.30
36	1	2871	G	N1-C6-O6	-6.75	115.85	119.90
36	1	3264	G	N1-C2-N3	6.75	127.95	123.90
37	3	25	G	C6-C5-N7	-6.75	126.35	130.40
80	6	376	C	OP1-P-OP2	6.75	129.72	119.60
80	6	536	C	C5-C6-N1	6.75	124.37	121.00
85	5	398	A	OP1-P-OP2	6.75	129.72	119.60
85	5	944	C	C5-C4-N4	6.75	124.92	120.20
85	5	1215	U	OP1-P-OP2	-6.75	109.48	119.60
85	5	1284	C	N3-C2-O2	-6.75	117.18	121.90
85	5	2538	U	C5-C6-N1	6.75	126.07	122.70
85	5	2683	U	C5-C4-O4	6.75	129.95	125.90
85	5	3140	G	C4-C5-N7	-6.75	108.10	110.80
85	5	3382	U	N1-C1'-C2'	6.75	122.77	114.00
1	2	997	G	N3-C4-C5	-6.75	125.23	128.60
1	2	1185	A	N9-C4-C5	6.75	108.50	105.80
80	6	424	C	O5'-P-OP1	-6.75	99.63	105.70
80	6	571	G	C5-C6-O6	6.75	132.65	128.60
85	5	624	G	N1-C6-O6	6.75	123.95	119.90
36	1	182	U	N3-C2-O2	-6.74	117.48	122.20
36	1	993	G	N3-C4-N9	6.74	130.05	126.00
36	1	1078	U	N3-C2-O2	-6.74	117.48	122.20
36	1	2646	C	N1-C2-O2	-6.74	114.85	118.90
37	3	18	C	N1-C2-O2	6.74	122.95	118.90
80	6	1523	G	N3-C2-N2	6.74	124.62	119.90
80	6	1629	G	C5-N7-C8	6.74	107.67	104.30
80	6	1726	G	N1-C2-N3	6.74	127.95	123.90
85	5	531	G	OP1-P-OP2	6.74	129.71	119.60
85	5	835	G	N3-C4-C5	-6.74	125.23	128.60
85	5	1554	U	OP1-P-O3'	6.74	120.03	105.20
85	5	2873	U	C2-N3-C4	-6.74	122.95	127.00
38	8	110	C	C2-N1-C1'	6.74	126.22	118.80
1	2	1332	G	C2-N3-C4	-6.74	108.53	111.90
36	1	271	C	N3-C2-O2	6.74	126.62	121.90
36	1	873	C	OP1-P-OP2	-6.74	109.49	119.60
36	1	1442	U	O5'-P-OP2	6.74	118.79	110.70
36	1	2877	G	C2-N3-C4	-6.74	108.53	111.90
80	6	173	A	C2-N3-C4	-6.74	107.23	110.60
80	6	1103	U	N1-C2-O2	6.74	127.52	122.80
85	5	1859	A	C5-C6-N1	6.74	121.07	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2535	A	N1-C2-N3	-6.74	125.93	129.30
85	5	3060	C	N3-C4-N4	6.74	122.72	118.00
36	1	750	G	C8-N9-C4	-6.74	103.70	106.40
36	1	938	C	N3-C4-C5	6.74	124.60	121.90
36	1	941	G	C6-N1-C2	-6.74	121.06	125.10
36	1	1394	A	C4-C5-N7	6.74	114.07	110.70
36	1	3057	U	N3-C2-O2	-6.74	117.48	122.20
36	1	3384	U	O5'-P-OP1	-6.74	99.63	105.70
38	4	28	C	N3-C4-N4	6.74	122.72	118.00
53	M7	91	VAL	CG1-CB-CG2	-6.74	100.11	110.90
80	6	343	C	C6-N1-C2	-6.74	117.60	120.30
80	6	405	C	N3-C2-O2	6.74	126.62	121.90
80	6	736	C	N3-C4-C5	6.74	124.60	121.90
80	6	1147	A	C4-C5-C6	6.74	120.37	117.00
80	6	1485	C	N1-C2-O2	6.74	122.94	118.90
85	5	738	A	C4-C5-N7	6.74	114.07	110.70
85	5	739	G	N3-C2-N2	6.74	124.62	119.90
85	5	2117	A	C2-N3-C4	6.74	113.97	110.60
85	5	2379	U	C6-N1-C2	-6.74	116.96	121.00
1	2	165	G	O5'-P-OP2	-6.74	99.64	105.70
36	1	637	C	C5'-C4'-O4'	-6.74	101.01	109.10
36	1	1207	G	C8-N9-C4	6.74	109.10	106.40
36	1	3242	G	N9-C4-C5	-6.74	102.70	105.40
62	N6	30	LEU	CA-CB-CG	6.74	130.80	115.30
85	5	94	G	N7-C8-N9	-6.74	109.73	113.10
85	5	581	U	N1-C2-O2	-6.74	118.08	122.80
85	5	582	G	OP1-P-OP2	-6.74	109.49	119.60
85	5	928	C	OP1-P-OP2	6.74	129.71	119.60
85	5	1294	A	OP1-P-OP2	6.74	129.71	119.60
85	5	1332	A	N1-C2-N3	6.74	132.67	129.30
85	5	1393	A	N1-C2-N3	6.74	132.67	129.30
85	5	1524	A	C6-N1-C2	-6.74	114.56	118.60
85	5	1635	G	O5'-P-OP1	-6.74	99.64	105.70
85	5	2177	G	O5'-P-OP1	6.74	118.79	110.70
85	5	3206	C	C2-N3-C4	-6.74	116.53	119.90
36	1	2565	U	N1-C2-O2	6.74	127.52	122.80
36	1	2572	C	N1-C2-O2	6.74	122.94	118.90
36	1	2823	G	C5-C6-N1	-6.74	108.13	111.50
36	1	2859	U	OP2-P-O3'	6.74	120.02	105.20
36	1	3190	C	C6-N1-C2	-6.74	117.61	120.30
52	M6	160	ARG	NE-CZ-NH2	6.74	123.67	120.30
80	6	277	U	N1-C2-O2	6.74	127.52	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1436	U	O5'-P-OP1	6.74	118.78	110.70
85	5	2394	G	OP2-P-O3'	6.74	120.02	105.20
85	5	2943	G	N3-C2-N2	-6.74	115.18	119.90
1	2	210	A	C2-N3-C4	-6.74	107.23	110.60
1	2	370	A	C6-N1-C2	-6.74	114.56	118.60
1	2	429	G	C5-N7-C8	-6.74	100.93	104.30
36	1	964	G	N3-C4-N9	-6.74	121.96	126.00
36	1	1286	A	C5-N7-C8	6.74	107.27	103.90
36	1	1419	A	C8-N9-C4	-6.74	103.11	105.80
36	1	1751	G	C6-N1-C2	-6.74	121.06	125.10
36	1	2227	C	C2-N3-C4	-6.74	116.53	119.90
36	1	2289	U	N1-C2-O2	-6.74	118.09	122.80
80	6	16	G	C6-N1-C2	-6.74	121.06	125.10
80	6	1755	A	C4-C5-C6	6.74	120.37	117.00
80	6	1766	A	N1-C6-N6	6.74	122.64	118.60
85	5	1363	A	C5-C6-N6	6.74	129.09	123.70
85	5	1893	A	N1-C2-N3	6.74	132.67	129.30
85	5	3307	A	C8-N9-C4	-6.74	103.11	105.80
36	1	1084	A	C4-C5-N7	6.73	114.07	110.70
36	1	1377	G	N1-C2-N2	6.73	122.26	116.20
36	1	1814	A	N1-C6-N6	6.73	122.64	118.60
80	6	858	G	C4-C5-N7	6.73	113.49	110.80
85	5	52	A	N1-C6-N6	-6.73	114.56	118.60
85	5	1008	U	C6-N1-C2	6.73	125.04	121.00
85	5	1192	C	C5-C6-N1	-6.73	117.63	121.00
85	5	1441	G	OP1-P-O3'	6.73	120.02	105.20
85	5	2291	A	N1-C2-N3	6.73	132.67	129.30
1	2	126	A	N9-C4-C5	6.73	108.49	105.80
1	2	1794	G	P-O3'-C3'	6.73	127.78	119.70
36	1	5	G	C6-C5-N7	-6.73	126.36	130.40
36	1	2914	G	N7-C8-N9	-6.73	109.73	113.10
37	3	102	A	N1-C2-N3	6.73	132.67	129.30
80	6	203	U	C5-C6-N1	-6.73	119.33	122.70
80	6	311	U	OP1-P-O3'	6.73	120.01	105.20
80	6	386	G	C5-N7-C8	-6.73	100.93	104.30
80	6	1418	G	C6-C5-N7	-6.73	126.36	130.40
85	5	660	A	C6-N1-C2	-6.73	114.56	118.60
85	5	694	C	OP1-P-OP2	6.73	129.70	119.60
85	5	912	G	C6-C5-N7	-6.73	126.36	130.40
85	5	1413	G	N1-C6-O6	6.73	123.94	119.90
85	5	1557	A	C5-C6-N1	6.73	121.07	117.70
85	5	1733	G	N1-C2-N3	6.73	127.94	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2247	G	C5-C6-O6	6.73	132.64	128.60
85	5	2627	C	N1-C2-N3	6.73	123.91	119.20
85	5	3095	U	N3-C4-O4	6.73	124.11	119.40
1	2	579	A	N1-C6-N6	-6.73	114.56	118.60
36	1	130	A	C5-C6-N1	6.73	121.07	117.70
36	1	289	A	C4-C5-C6	6.73	120.37	117.00
36	1	876	A	N9-C4-C5	-6.73	103.11	105.80
36	1	1050	U	N1-C2-N3	6.73	118.94	114.90
36	1	1205	A	C6-N1-C2	6.73	122.64	118.60
36	1	1380	G	O5'-P-OP1	6.73	118.78	110.70
36	1	1477	A	C4-C5-N7	6.73	114.06	110.70
36	1	2660	G	OP1-P-O3'	6.73	120.01	105.20
38	4	53	A	O5'-P-OP2	-6.73	99.64	105.70
38	4	86	U	N3-C2-O2	6.73	126.91	122.20
85	5	366	A	C4-C5-N7	-6.73	107.33	110.70
85	5	786	A	C2-N3-C4	-6.73	107.23	110.60
85	5	1410	U	O5'-P-OP2	-6.73	99.64	105.70
85	5	1658	G	C6-N1-C2	-6.73	121.06	125.10
85	5	2562	A	N1-C6-N6	6.73	122.64	118.60
1	2	93	A	C5-C6-N6	6.73	129.08	123.70
1	2	1309	A	N1-C6-N6	-6.73	114.56	118.60
1	2	1631	A	OP1-P-OP2	6.73	129.69	119.60
36	1	823	C	C4-C5-C6	6.73	120.77	117.40
36	1	1022	U	N3-C4-C5	6.73	118.64	114.60
85	5	1472	U	C2-N1-C1'	-6.73	109.62	117.70
85	5	1873	U	C5-C6-N1	6.73	126.06	122.70
85	5	1883	A	N9-C4-C5	-6.73	103.11	105.80
85	5	2618	G	N3-C4-N9	6.73	130.04	126.00
85	5	3143	C	C4-C5-C6	6.73	120.76	117.40
1	2	459	G	C5-N7-C8	-6.73	100.94	104.30
1	2	617	U	C2-N3-C4	-6.73	122.96	127.00
1	2	956	A	C4-C5-C6	6.73	120.36	117.00
36	1	1022	U	C4-C5-C6	-6.73	115.66	119.70
36	1	1607	U	N1-C2-O2	-6.73	118.09	122.80
36	1	1681	U	C2-N3-C4	-6.73	122.96	127.00
36	1	3261	C	C4-C5-C6	6.73	120.76	117.40
80	6	160	C	N3-C2-O2	-6.73	117.19	121.90
80	6	343	C	N1-C2-O2	-6.73	114.86	118.90
80	6	523	G	C5-C6-O6	-6.73	124.56	128.60
80	6	544	A	N7-C8-N9	-6.73	110.44	113.80
80	6	972	G	O5'-P-OP1	-6.73	99.64	105.70
85	5	1524	A	C2-N3-C4	-6.73	107.24	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2126	A	N7-C8-N9	-6.73	110.44	113.80
85	5	2838	A	C2-N3-C4	6.73	113.96	110.60
85	5	2932	U	C2-N3-C4	-6.73	122.96	127.00
85	5	3307	A	N1-C2-N3	6.73	132.66	129.30
36	1	570	A	C5-N7-C8	-6.73	100.54	103.90
36	1	1110	U	C5-C4-O4	-6.73	121.86	125.90
36	1	1301	A	C5-N7-C8	-6.73	100.54	103.90
36	1	3358	U	C5-C6-N1	-6.73	119.34	122.70
85	5	406	G	C5-N7-C8	-6.73	100.94	104.30
85	5	863	C	C6-N1-C1'	-6.73	112.73	120.80
85	5	1848	G	N1-C2-N2	-6.73	110.15	116.20
85	5	2240	G	O5'-P-OP2	6.73	118.77	110.70
85	5	3331	U	C5-C6-N1	6.73	126.06	122.70
1	2	1138	G	N7-C8-N9	-6.72	109.74	113.10
1	2	1193	C	N3-C2-O2	6.72	126.61	121.90
36	1	128	G	C2-N3-C4	-6.72	108.54	111.90
36	1	2621	G	N3-C2-N2	-6.72	115.19	119.90
36	1	2899	C	N3-C4-C5	6.72	124.59	121.90
36	1	2915	U	N1-C2-N3	6.72	118.94	114.90
37	3	1	G	C6-C5-N7	-6.72	126.36	130.40
37	3	120	C	C2-N3-C4	-6.72	116.54	119.90
70	O4	41	ARG	NE-CZ-NH1	-6.72	116.94	120.30
85	5	1114	U	N1-C2-N3	6.72	118.94	114.90
85	5	2412	G	C4-C5-C6	6.72	122.83	118.80
85	5	2560	C	C2-N3-C4	6.72	123.26	119.90
85	5	2970	C	N1-C2-O2	-6.72	114.86	118.90
1	2	133	U	C5-C4-O4	6.72	129.93	125.90
1	2	222	A	N1-C2-N3	-6.72	125.94	129.30
1	2	611	U	O5'-P-OP1	-6.72	99.65	105.70
1	2	1179	A	C2-N3-C4	6.72	113.96	110.60
36	1	1093	A	N9-C4-C5	-6.72	103.11	105.80
36	1	1865	A	OP1-P-O3'	6.72	119.99	105.20
36	1	2120	A	O5'-P-OP2	-6.72	99.65	105.70
36	1	2843	U	C4-C5-C6	6.72	123.73	119.70
36	1	2920	U	OP2-P-O3'	6.72	119.99	105.20
37	3	38	U	N3-C2-O2	6.72	126.91	122.20
80	6	537	G	N1-C6-O6	6.72	123.93	119.90
80	6	591	A	C2-N3-C4	6.72	113.96	110.60
85	5	327	A	C4-C5-C6	-6.72	113.64	117.00
85	5	754	G	C8-N9-C4	6.72	109.09	106.40
85	5	994	G	N3-C4-N9	6.72	130.03	126.00
85	5	1294	A	O5'-P-OP1	-6.72	99.65	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1560	G	C8-N9-C4	6.72	109.09	106.40
85	5	1799	A	O5'-P-OP2	-6.72	99.65	105.70
36	1	2229	A	N7-C8-N9	-6.72	110.44	113.80
36	1	3025	C	N3-C2-O2	-6.72	117.20	121.90
80	6	729	G	C5-C6-O6	-6.72	124.57	128.60
85	5	402	A	N1-C6-N6	-6.72	114.57	118.60
85	5	1121	U	O5'-P-OP2	-6.72	99.65	105.70
85	5	2260	U	N1-C2-N3	6.72	118.93	114.90
85	5	2305	G	N1-C2-N3	6.72	127.93	123.90
85	5	2619	G	C5-C6-O6	6.72	132.63	128.60
85	5	2839	G	N3-C2-N2	-6.72	115.19	119.90
1	2	134	U	N3-C4-O4	6.72	124.10	119.40
1	2	296	U	N3-C4-C5	-6.72	110.57	114.60
36	1	110	G	C6-C5-N7	-6.72	126.37	130.40
36	1	564	G	C2-N3-C4	6.72	115.26	111.90
36	1	1164	G	OP1-P-OP2	6.72	129.68	119.60
36	1	1385	C	N3-C4-C5	-6.72	119.21	121.90
36	1	1389	G	N3-C4-N9	6.72	130.03	126.00
36	1	1752	A	C6-N1-C2	-6.72	114.57	118.60
36	1	2245	C	N3-C2-O2	-6.72	117.20	121.90
36	1	2335	G	C8-N9-C4	-6.72	103.71	106.40
36	1	2821	C	C4-C5-C6	6.72	120.76	117.40
36	1	2893	C	C5-C6-N1	-6.72	117.64	121.00
36	1	2908	G	N3-C4-N9	6.72	130.03	126.00
36	1	3072	C	N3-C2-O2	-6.72	117.20	121.90
36	1	3231	U	N1-C2-N3	6.72	118.93	114.90
37	3	26	C	OP1-P-O3'	6.72	119.98	105.20
38	4	91	C	C6-N1-C2	-6.72	117.61	120.30
47	M0	167	LEU	CB-CG-CD1	6.72	122.42	111.00
59	N3	56	ASP	CB-CG-OD1	-6.72	112.25	118.30
85	5	224	C	C2-N1-C1'	6.72	126.19	118.80
85	5	593	C	C6-N1-C2	6.72	122.99	120.30
85	5	668	G	N3-C2-N2	6.72	124.60	119.90
85	5	688	G	C4-C5-C6	6.72	122.83	118.80
85	5	907	G	C6-N1-C2	-6.72	121.07	125.10
85	5	1498	A	OP2-P-O3'	6.72	119.98	105.20
85	5	1800	A	C5-N7-C8	6.72	107.26	103.90
85	5	2598	G	N1-C6-O6	6.72	123.93	119.90
85	5	2755	C	C4-C5-C6	6.72	120.76	117.40
85	5	2970	C	N3-C2-O2	6.72	126.60	121.90
1	2	333	A	C6-N1-C2	-6.72	114.57	118.60
36	1	159	A	C4-C5-N7	6.72	114.06	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	848	A	C4-C5-N7	-6.72	107.34	110.70
36	1	1186	G	N1-C2-N2	-6.72	110.15	116.20
36	1	1706	C	N1-C2-O2	6.72	122.93	118.90
36	1	2506	U	N1-C2-O2	6.72	127.50	122.80
80	6	393	C	N1-C2-N3	6.72	123.90	119.20
80	6	1027	A	N3-C4-N9	-6.72	122.03	127.40
80	6	1404	C	C5-C6-N1	-6.72	117.64	121.00
85	5	532	A	N9-C4-C5	6.72	108.49	105.80
85	5	2243	A	O5'-P-OP2	6.72	118.76	110.70
1	2	1104	C	N1-C2-O2	-6.72	114.87	118.90
1	2	1229	C	N1-C2-N3	6.72	123.90	119.20
1	2	1595	U	O5'-P-OP2	6.72	118.76	110.70
36	1	1599	G	N3-C4-C5	6.72	131.96	128.60
36	1	2607	G	OP2-P-O3'	6.72	119.98	105.20
36	1	2763	U	N3-C2-O2	-6.72	117.50	122.20
38	4	6	U	C6-N1-C2	6.72	125.03	121.00
80	6	742	U	N3-C4-C5	-6.72	110.57	114.60
85	5	232	G	O4'-C1'-N9	6.72	113.57	108.20
85	5	359	U	O5'-P-OP1	6.72	118.76	110.70
85	5	673	U	N3-C4-C5	-6.72	110.57	114.60
85	5	1420	C	OP2-P-O3'	6.72	119.98	105.20
85	5	1607	U	N1-C2-O2	6.72	127.50	122.80
85	5	2320	A	O5'-P-OP2	-6.72	99.65	105.70
85	5	2621	G	O4'-C1'-N9	-6.72	102.83	108.20
85	5	2717	U	OP1-P-O3'	-6.72	90.42	105.20
85	5	3088	G	C6-N1-C2	-6.72	121.07	125.10
37	7	2	G	C4-C5-N7	6.72	113.49	110.80
37	7	101	G	N1-C2-N3	6.72	127.93	123.90
38	8	135	G	C4-C5-N7	-6.72	108.11	110.80
1	2	1391	G	N1-C6-O6	6.71	123.93	119.90
36	1	67	A	OP1-P-OP2	-6.71	109.53	119.60
36	1	941	G	N3-C2-N2	6.71	124.60	119.90
36	1	1752	A	N1-C2-N3	6.71	132.66	129.30
36	1	1881	A	C5-C6-N6	-6.71	118.33	123.70
36	1	2222	A	OP2-P-O3'	6.71	119.97	105.20
36	1	2395	G	N3-C4-N9	-6.71	121.97	126.00
80	6	539	G	C6-C5-N7	-6.71	126.37	130.40
80	6	1572	G	C5-N7-C8	-6.71	100.94	104.30
85	5	2153	U	C4-C5-C6	6.71	123.73	119.70
85	5	2403	G	N7-C8-N9	6.71	116.46	113.10
36	1	738	A	C5-C6-N1	6.71	121.06	117.70
36	1	977	C	C2-N3-C4	6.71	123.26	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1877	U	N3-C4-C5	-6.71	110.57	114.60
36	1	2287	C	N3-C4-N4	-6.71	113.30	118.00
36	1	2700	G	N3-C2-N2	6.71	124.60	119.90
36	1	3144	G	C2-N3-C4	-6.71	108.54	111.90
80	6	1597	A	C5-N7-C8	6.71	107.26	103.90
85	5	160	G	C5-C6-N1	-6.71	108.14	111.50
85	5	1520	G	N7-C8-N9	6.71	116.46	113.10
85	5	2377	G	N7-C8-N9	-6.71	109.74	113.10
85	5	2628	A	N9-C4-C5	6.71	108.48	105.80
85	5	2841	G	C4-C5-N7	6.71	113.48	110.80
1	2	766	G	O5'-P-OP1	-6.71	99.66	105.70
1	2	1496	G	C4-C5-N7	-6.71	108.11	110.80
36	1	347	G	C8-N9-C1'	-6.71	118.28	127.00
36	1	409	A	OP1-P-O3'	6.71	119.96	105.20
36	1	1374	G	O5'-P-OP1	-6.71	99.66	105.70
36	1	1400	G	C5-C6-N1	-6.71	108.14	111.50
36	1	1501	U	N3-C2-O2	6.71	126.90	122.20
36	1	1562	C	N3-C4-N4	-6.71	113.30	118.00
36	1	2698	G	OP1-P-O3'	6.71	119.97	105.20
36	1	2873	U	C2-N3-C4	-6.71	122.97	127.00
36	1	3043	C	C2-N3-C4	-6.71	116.55	119.90
80	6	423	G	OP2-P-O3'	6.71	119.97	105.20
80	6	1523	G	N1-C2-N2	-6.71	110.16	116.20
85	5	498	A	C4-C5-N7	6.71	114.06	110.70
85	5	1183	C	C2-N3-C4	-6.71	116.54	119.90
85	5	1203	A	C4-C5-C6	6.71	120.36	117.00
85	5	1375	G	N7-C8-N9	6.71	116.45	113.10
85	5	3273	A	N1-C6-N6	-6.71	114.57	118.60
37	7	86	U	N3-C2-O2	6.71	126.90	122.20
1	2	92	A	C5-N7-C8	6.71	107.25	103.90
1	2	552	G	N7-C8-N9	6.71	116.45	113.10
36	1	1897	G	N3-C4-N9	6.71	130.03	126.00
85	5	2143	A	C8-N9-C4	-6.71	103.12	105.80
85	5	2559	U	N3-C4-O4	-6.71	114.70	119.40
85	5	2899	C	N3-C4-N4	6.71	122.70	118.00
36	1	179	C	N3-C2-O2	-6.71	117.20	121.90
36	1	572	A	C4-C5-N7	6.71	114.06	110.70
36	1	2174	G	C8-N9-C4	-6.71	103.72	106.40
36	1	2522	G	N7-C8-N9	6.71	116.45	113.10
36	1	2739	A	C8-N9-C4	6.71	108.48	105.80
36	1	2819	A	N1-C2-N3	-6.71	125.95	129.30
36	1	2840	C	C4-C5-C6	6.71	120.75	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2904	U	N3-C2-O2	-6.71	117.50	122.20
80	6	201	G	N1-C2-N3	6.71	127.92	123.90
85	5	276	U	O5'-P-OP2	6.71	118.75	110.70
85	5	419	G	O5'-P-OP1	6.71	118.75	110.70
85	5	613	G	N3-C4-N9	-6.71	121.97	126.00
85	5	723	U	C2-N1-C1'	-6.71	109.65	117.70
85	5	846	A	C8-N9-C4	-6.71	103.12	105.80
85	5	906	A	C6-N1-C2	-6.71	114.58	118.60
85	5	1721	U	N1-C2-N3	6.71	118.93	114.90
85	5	2294	U	O5'-P-OP2	-6.71	99.66	105.70
85	5	2696	A	C2-N3-C4	6.71	113.95	110.60
85	5	3214	U	N1-C2-O2	6.71	127.50	122.80
85	5	3243	A	N1-C6-N6	6.71	122.63	118.60
72	o6	98	ARG	NE-CZ-NH1	6.71	123.66	120.30
1	2	971	A	C5-N7-C8	-6.71	100.55	103.90
1	2	1329	A	C5-C6-N1	-6.71	114.35	117.70
1	2	1536	G	O5'-P-OP1	-6.71	99.66	105.70
1	2	1645	G	C5-C6-N1	6.71	114.85	111.50
1	2	1711	A	N1-C2-N3	6.71	132.65	129.30
36	1	1061	A	C4-C5-C6	6.71	120.35	117.00
36	1	2097	U	N3-C4-C5	-6.71	110.58	114.60
36	1	2199	G	C6-C5-N7	-6.71	126.38	130.40
36	1	3229	G	N3-C4-C5	6.71	131.95	128.60
38	4	10	A	N7-C8-N9	-6.71	110.45	113.80
80	6	146	U	C5-C4-O4	-6.71	121.88	125.90
80	6	1746	A	C4-C5-C6	6.71	120.35	117.00
85	5	1422	G	OP1-P-O3'	-6.71	90.44	105.20
85	5	1440	G	C5-C6-O6	-6.71	124.58	128.60
1	2	1135	A	N7-C8-N9	6.71	117.15	113.80
36	1	561	C	N3-C4-N4	6.71	122.69	118.00
36	1	962	A	N7-C8-N9	6.71	117.15	113.80
36	1	2386	A	C4-C5-N7	6.71	114.05	110.70
36	1	2950	G	C5-N7-C8	-6.71	100.95	104.30
40	L3	10	ARG	NE-CZ-NH1	-6.71	116.95	120.30
80	6	368	U	C5-C6-N1	-6.71	119.35	122.70
80	6	1200	G	C6-C5-N7	-6.71	126.38	130.40
85	5	214	G	N7-C8-N9	6.71	116.45	113.10
85	5	933	A	N9-C4-C5	6.71	108.48	105.80
85	5	1019	G	C5-C6-N1	6.71	114.85	111.50
85	5	1829	G	N3-C2-N2	-6.71	115.21	119.90
85	5	2977	G	N1-C2-N3	6.71	127.92	123.90
38	8	11	C	OP1-P-O3'	6.71	119.95	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	106	U	C6-N1-C2	-6.70	116.98	121.00
1	2	414	C	C5-C6-N1	6.70	124.35	121.00
1	2	1497	U	C5-C6-N1	-6.70	119.35	122.70
36	1	129	U	N3-C4-C5	-6.70	110.58	114.60
36	1	433	A	O4'-C1'-N9	-6.70	102.84	108.20
36	1	509	U	OP1-P-OP2	-6.70	109.55	119.60
36	1	570	A	C4-C5-N7	6.70	114.05	110.70
36	1	999	G	C6-N1-C2	-6.70	121.08	125.10
36	1	1325	U	C2-N3-C4	-6.70	122.98	127.00
36	1	1500	G	C8-N9-C4	-6.70	103.72	106.40
36	1	1796	G	N7-C8-N9	6.70	116.45	113.10
36	1	1914	G	N1-C2-N3	6.70	127.92	123.90
36	1	2658	G	OP1-P-OP2	-6.70	109.54	119.60
80	6	1629	G	N9-C4-C5	6.70	108.08	105.40
85	5	2727	A	N9-C4-C5	6.70	108.48	105.80
85	5	2740	A	C4-C5-N7	6.70	114.05	110.70
62	n6	126	LEU	CA-CB-CG	6.70	130.72	115.30
36	1	337	G	C4-C5-C6	6.70	122.82	118.80
36	1	2431	C	N3-C4-C5	-6.70	119.22	121.90
36	1	3334	U	C4-C5-C6	6.70	123.72	119.70
80	6	445	A	C5-N7-C8	-6.70	100.55	103.90
80	6	757	A	C4-C5-C6	6.70	120.35	117.00
80	6	879	G	C2-N3-C4	6.70	115.25	111.90
80	6	958	U	N3-C2-O2	-6.70	117.51	122.20
85	5	584	G	C4-C5-C6	6.70	122.82	118.80
85	5	976	U	O5'-P-OP2	-6.70	99.67	105.70
85	5	1224	C	N1-C2-O2	-6.70	114.88	118.90
85	5	1656	A	C4-C5-N7	-6.70	107.35	110.70
1	2	233	C	N1-C2-O2	-6.70	114.88	118.90
1	2	368	U	C2-N1-C1'	6.70	125.74	117.70
1	2	531	C	C5-C6-N1	-6.70	117.65	121.00
1	2	547	U	N3-C4-O4	-6.70	114.71	119.40
1	2	1094	G	OP2-P-O3'	6.70	119.94	105.20
1	2	1703	G	N7-C8-N9	-6.70	109.75	113.10
36	1	1519	G	N1-C2-N3	6.70	127.92	123.90
36	1	2506	U	N1-C2-N3	-6.70	110.88	114.90
36	1	3015	G	C2-N3-C4	-6.70	108.55	111.90
36	1	3164	C	N1-C2-O2	6.70	122.92	118.90
80	6	351	C	N1-C2-O2	-6.70	114.88	118.90
80	6	715	U	C5-C4-O4	6.70	129.92	125.90
80	6	891	A	O5'-P-OP2	-6.70	99.67	105.70
80	6	1172	G	C5-C6-N1	6.70	114.85	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	77	A	OP1-P-O3'	-6.70	90.46	105.20
85	5	1402	C	O5'-P-OP1	6.70	118.74	110.70
85	5	2194	G	N1-C6-O6	-6.70	115.88	119.90
85	5	2614	G	N1-C6-O6	-6.70	115.88	119.90
85	5	2665	U	N1-C2-N3	6.70	118.92	114.90
85	5	2896	A	O5'-P-OP2	-6.70	99.67	105.70
85	5	2963	C	C6-N1-C2	-6.70	117.62	120.30
1	2	408	C	N1-C2-N3	6.70	123.89	119.20
36	1	836	A	C5-C6-N6	-6.70	118.34	123.70
36	1	1062	A	C6-C5-N7	-6.70	127.61	132.30
36	1	1772	U	O5'-P-OP2	-6.70	99.67	105.70
36	1	3298	C	C5-C4-N4	-6.70	115.51	120.20
37	3	72	A	N1-C6-N6	6.70	122.62	118.60
38	4	64	U	N3-C2-O2	-6.70	117.51	122.20
80	6	347	G	N1-C2-N3	6.70	127.92	123.90
80	6	794	U	N1-C2-O2	6.70	127.49	122.80
80	6	1570	A	C6-N1-C2	-6.70	114.58	118.60
85	5	207	U	N1-C2-O2	-6.70	118.11	122.80
85	5	291	C	C5-C4-N4	6.70	124.89	120.20
85	5	572	A	C5-C6-N1	6.70	121.05	117.70
85	5	701	G	N9-C4-C5	-6.70	102.72	105.40
85	5	1391	C	C4-C5-C6	6.70	120.75	117.40
85	5	2121	G	C6-N1-C2	-6.70	121.08	125.10
85	5	2275	A	C8-N9-C4	-6.70	103.12	105.80
85	5	2790	A	C8-N9-C4	6.70	108.48	105.80
85	5	3007	U	OP2-P-O3'	6.70	119.94	105.20
85	5	3052	G	C6-C5-N7	6.70	134.42	130.40
1	2	554	C	C5-C6-N1	6.70	124.35	121.00
36	1	594	U	N3-C4-C5	-6.70	110.58	114.60
36	1	644	G	C2-N3-C4	-6.70	108.55	111.90
36	1	1287	A	C5-C6-N1	-6.70	114.35	117.70
36	1	2637	A	N7-C8-N9	6.70	117.15	113.80
36	1	2939	G	N9-C4-C5	6.70	108.08	105.40
80	6	481	A	C2-N3-C4	6.70	113.95	110.60
80	6	575	C	O5'-P-OP1	-6.70	99.67	105.70
80	6	804	A	C5-C6-N1	-6.70	114.35	117.70
85	5	378	A	C4-C5-N7	-6.70	107.35	110.70
85	5	644	G	C2-N3-C4	-6.70	108.55	111.90
85	5	2313	A	C8-N9-C4	-6.70	103.12	105.80
85	5	2627	C	OP1-P-OP2	-6.70	109.56	119.60
1	2	572	C	N3-C4-C5	-6.70	119.22	121.90
1	2	1333	U	N3-C2-O2	6.70	126.89	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1543	G	N1-C2-N3	-6.70	119.88	123.90
36	1	1626	U	C6-N1-C2	6.70	125.02	121.00
36	1	2320	A	O5'-P-OP1	6.70	118.73	110.70
36	1	2522	G	N1-C2-N2	6.70	122.23	116.20
36	1	3142	A	O5'-P-OP2	-6.70	99.67	105.70
36	1	3288	G	C6-N1-C2	6.70	129.12	125.10
38	4	114	G	N1-C6-O6	6.70	123.92	119.90
80	6	433	C	C5-C4-N4	-6.70	115.51	120.20
80	6	1122	G	N1-C2-N3	6.70	127.92	123.90
80	6	1213	G	C5-C6-N1	-6.70	108.15	111.50
85	5	7	C	N3-C2-O2	6.70	126.59	121.90
85	5	1057	A	C5-C6-N1	6.70	121.05	117.70
85	5	1379	G	C8-N9-C4	6.70	109.08	106.40
85	5	1406	A	OP2-P-O3'	6.70	119.93	105.20
85	5	1512	U	N3-C2-O2	-6.70	117.51	122.20
85	5	2278	C	C2-N3-C4	6.70	123.25	119.90
85	5	2991	A	OP2-P-O3'	6.70	119.93	105.20
1	2	1274	G	C4-C5-N7	6.69	113.48	110.80
36	1	655	C	C2-N1-C1'	6.69	126.16	118.80
36	1	1617	G	N3-C2-N2	-6.69	115.21	119.90
36	1	2668	U	C5-C4-O4	-6.69	121.88	125.90
80	6	491	C	C6-N1-C2	-6.69	117.62	120.30
80	6	1297	G	C5-C6-O6	6.69	132.62	128.60
1	2	690	A	C2-N3-C4	6.69	113.95	110.60
36	1	1287	A	C4-C5-C6	6.69	120.35	117.00
36	1	1612	A	N1-C2-N3	6.69	132.65	129.30
36	1	2907	G	O5'-P-OP1	6.69	118.73	110.70
80	6	977	A	OP1-P-OP2	-6.69	109.56	119.60
85	5	1416	C	C2-N3-C4	-6.69	116.55	119.90
85	5	1617	G	C5-C6-O6	-6.69	124.58	128.60
85	5	1927	G	C6-C5-N7	-6.69	126.39	130.40
85	5	2878	G	C6-C5-N7	-6.69	126.38	130.40
85	5	2972	G	N1-C2-N3	6.69	127.92	123.90
1	2	581	U	N3-C2-O2	-6.69	117.52	122.20
1	2	806	G	C2-N3-C4	6.69	115.25	111.90
1	2	851	G	N7-C8-N9	6.69	116.44	113.10
1	2	1199	C	C6-N1-C2	-6.69	117.62	120.30
36	1	324	A	C6-N1-C2	-6.69	114.58	118.60
36	1	388	G	N3-C2-N2	-6.69	115.22	119.90
36	1	904	A	OP1-P-OP2	-6.69	109.56	119.60
80	6	169	A	C5-C6-N6	6.69	129.05	123.70
80	6	451	A	N3-C4-C5	6.69	131.48	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	996	U	N3-C4-C5	-6.69	110.58	114.60
80	6	1655	A	C2-N3-C4	6.69	113.94	110.60
85	5	70	A	O5'-P-OP1	-6.69	99.68	105.70
85	5	86	G	N1-C6-O6	6.69	123.91	119.90
85	5	123	A	C8-N9-C4	6.69	108.48	105.80
85	5	241	G	C5-N7-C8	-6.69	100.95	104.30
85	5	851	C	N1-C2-N3	6.69	123.88	119.20
85	5	1399	A	C6-C5-N7	-6.69	127.62	132.30
85	5	1416	C	C2-N1-C1'	6.69	126.16	118.80
85	5	1894	U	N3-C4-O4	-6.69	114.72	119.40
85	5	2391	G	N7-C8-N9	-6.69	109.75	113.10
85	5	2650	U	N1-C2-N3	6.69	118.92	114.90
85	5	2714	G	N7-C8-N9	6.69	116.44	113.10
85	5	2762	A	C6-N1-C2	-6.69	114.59	118.60
85	5	3013	U	C6-N1-C2	-6.69	116.99	121.00
85	5	3159	C	C5-C6-N1	-6.69	117.66	121.00
80	6	1139	A	N7-C8-N9	-6.69	110.46	113.80
85	5	1165	A	C5-N7-C8	6.69	107.25	103.90
1	2	149	C	C6-N1-C2	-6.69	117.62	120.30
1	2	804	U	C5-C6-N1	6.69	126.04	122.70
36	1	425	G	C4-C5-N7	6.69	113.47	110.80
36	1	709	A	C6-N1-C2	-6.69	114.59	118.60
36	1	1362	G	N3-C2-N2	6.69	124.58	119.90
36	1	1452	A	C4-C5-C6	-6.69	113.66	117.00
36	1	1520	G	C4-C5-N7	-6.69	108.12	110.80
36	1	1627	U	C5-C4-O4	6.69	129.91	125.90
36	1	1897	G	O5'-P-OP2	-6.69	99.68	105.70
36	1	2803	A	OP1-P-OP2	-6.69	109.57	119.60
36	1	3114	A	C2-N3-C4	6.69	113.94	110.60
36	1	3129	A	C6-C5-N7	-6.69	127.62	132.30
51	M5	38	ARG	NE-CZ-NH1	6.69	123.64	120.30
80	6	299	A	O5'-P-OP1	6.69	118.72	110.70
80	6	1102	G	N7-C8-N9	-6.69	109.76	113.10
85	5	1444	G	N3-C4-C5	6.69	131.94	128.60
85	5	1460	A	N9-C4-C5	-6.69	103.12	105.80
85	5	1598	G	C6-N1-C2	-6.69	121.09	125.10
85	5	1713	G	C5-C6-N1	6.69	114.84	111.50
37	7	84	A	C5-N7-C8	-6.69	100.56	103.90
1	2	1411	G	N3-C4-C5	6.69	131.94	128.60
36	1	526	C	N1-C2-N3	6.69	123.88	119.20
36	1	760	G	N1-C6-O6	6.69	123.91	119.90
36	1	932	U	N3-C4-C5	6.69	118.61	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1474	A	C5-C6-N1	-6.69	114.36	117.70
36	1	2575	G	C8-N9-C4	-6.69	103.73	106.40
36	1	2803	A	N1-C6-N6	-6.69	114.59	118.60
80	6	420	A	C4-N9-C1'	6.69	138.34	126.30
80	6	1065	A	C2-N3-C4	-6.69	107.26	110.60
36	1	75	G	N9-C4-C5	-6.68	102.73	105.40
36	1	907	G	C5-N7-C8	6.68	107.64	104.30
36	1	1532	C	N3-C4-C5	6.68	124.57	121.90
36	1	2131	A	OP1-P-OP2	-6.68	109.57	119.60
36	1	2590	A	C8-N9-C4	-6.68	103.13	105.80
36	1	2880	U	C2-N3-C4	-6.68	122.99	127.00
36	1	3034	C	C4-C5-C6	-6.68	114.06	117.40
38	4	52	A	C5-C6-N6	6.68	129.05	123.70
85	5	2893	C	OP1-P-OP2	6.68	129.63	119.60
79	q3	11	THR	C-N-CA	-6.68	108.26	122.30
1	2	498	G	C5-C6-O6	6.68	132.61	128.60
36	1	818	C	C4-C5-C6	6.68	120.74	117.40
36	1	910	G	N9-C4-C5	6.68	108.07	105.40
36	1	1008	U	C6-N1-C2	6.68	125.01	121.00
36	1	1115	G	C4-C5-N7	6.68	113.47	110.80
36	1	1169	A	O5'-P-OP2	-6.68	99.69	105.70
36	1	1728	G	OP2-P-O3'	6.68	119.90	105.20
36	1	2249	G	N3-C4-C5	-6.68	125.26	128.60
80	6	312	A	C2-N3-C4	6.68	113.94	110.60
85	5	244	G	C4-C5-N7	6.68	113.47	110.80
85	5	1657	C	O5'-P-OP1	-6.68	99.69	105.70
85	5	2133	U	C4-C5-C6	-6.68	115.69	119.70
39	l2	51	ASP	CB-CG-OD2	6.68	124.31	118.30
1	2	195	G	C5-N7-C8	6.68	107.64	104.30
1	2	404	G	O5'-P-OP2	-6.68	99.69	105.70
36	1	156	G	N7-C8-N9	6.68	116.44	113.10
36	1	659	G	OP2-P-O3'	6.68	119.90	105.20
36	1	2675	C	N3-C2-O2	-6.68	117.22	121.90
85	5	1197	A	N1-C6-N6	-6.68	114.59	118.60
85	5	2605	G	C4-C5-N7	6.68	113.47	110.80
85	5	2937	G	N1-C6-O6	6.68	123.91	119.90
85	5	3332	U	N3-C4-O4	6.68	124.08	119.40
1	2	1152	G	N9-C4-C5	6.68	108.07	105.40
1	2	1497	U	N3-C2-O2	-6.68	117.52	122.20
36	1	593	C	N3-C2-O2	6.68	126.58	121.90
36	1	659	G	N1-C2-N3	-6.68	119.89	123.90
36	1	1415	U	OP1-P-OP2	6.68	129.62	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3208	G	N9-C4-C5	6.68	108.07	105.40
38	4	155	A	C4-C5-C6	6.68	120.34	117.00
80	6	815	G	N7-C8-N9	6.68	116.44	113.10
80	6	1652	C	N1-C2-O2	-6.68	114.89	118.90
80	6	1657	U	C4-C5-C6	-6.68	115.69	119.70
80	6	1743	U	N3-C4-C5	-6.68	110.59	114.60
85	5	971	G	N1-C6-O6	6.68	123.91	119.90
85	5	1169	A	N1-C2-N3	6.68	132.64	129.30
85	5	1842	A	OP2-P-O3'	6.68	119.90	105.20
85	5	2818	U	O5'-P-OP1	-6.68	99.69	105.70
85	5	3017	A	OP2-P-O3'	6.68	119.90	105.20
85	5	3043	C	C4-C5-C6	-6.68	114.06	117.40
85	5	3092	C	C4-C5-C6	-6.68	114.06	117.40
85	5	3201	C	C6-N1-C2	-6.68	117.63	120.30
1	2	307	G	C8-N9-C4	6.68	109.07	106.40
36	1	88	A	C5-N7-C8	6.68	107.24	103.90
36	1	119	U	OP1-P-OP2	-6.68	109.58	119.60
36	1	360	G	OP1-P-O3'	6.68	119.89	105.20
36	1	579	G	O5'-P-OP1	6.68	118.71	110.70
36	1	2373	A	N9-C4-C5	6.68	108.47	105.80
36	1	2888	U	N3-C4-O4	-6.68	114.72	119.40
36	1	3004	C	C2-N3-C4	6.68	123.24	119.90
80	6	346	G	N1-C6-O6	6.68	123.91	119.90
85	5	141	C	O5'-P-OP1	-6.68	99.69	105.70
85	5	2193	U	N1-C2-O2	-6.68	118.13	122.80
85	5	2380	U	C2-N3-C4	-6.68	122.99	127.00
1	2	651	G	C5-C6-O6	6.68	132.61	128.60
1	2	1362	C	C2-N3-C4	6.68	123.24	119.90
1	2	1616	A	N1-C6-N6	-6.68	114.59	118.60
36	1	2398	A	C2-N3-C4	6.68	113.94	110.60
53	M7	135	ARG	NE-CZ-NH2	-6.68	116.96	120.30
80	6	1102	G	C4-C5-N7	-6.68	108.13	110.80
80	6	1610	G	N1-C2-N3	6.68	127.91	123.90
85	5	57	A	C2-N3-C4	-6.68	107.26	110.60
85	5	255	A	C5-C6-N6	-6.68	118.36	123.70
85	5	337	G	C4-C5-N7	6.68	113.47	110.80
85	5	800	G	OP1-P-OP2	6.68	129.62	119.60
85	5	836	A	C8-N9-C4	6.68	108.47	105.80
85	5	1417	G	N9-C4-C5	-6.68	102.73	105.40
85	5	2630	C	C6-N1-C2	-6.68	117.63	120.30
85	5	2900	A	C4-C5-N7	-6.68	107.36	110.70
85	5	3235	C	N3-C4-C5	6.68	124.57	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1193	C	C4-C5-C6	-6.67	114.06	117.40
1	2	1283	A	C5-N7-C8	6.67	107.24	103.90
36	1	380	U	N3-C4-C5	-6.67	110.60	114.60
36	1	647	A	C5-C6-N1	-6.67	114.36	117.70
36	1	771	A	C8-N9-C4	-6.67	103.13	105.80
36	1	1023	C	C5-C6-N1	6.67	124.34	121.00
36	1	1113	G	C4-N9-C1'	6.67	135.18	126.50
36	1	2305	G	C6-N1-C2	-6.67	121.09	125.10
38	4	80	A	C2-N3-C4	-6.67	107.26	110.60
80	6	795	U	N1-C2-O2	6.67	127.47	122.80
80	6	1035	G	C6-C5-N7	6.67	134.40	130.40
85	5	440	A	N9-C4-C5	-6.67	103.13	105.80
85	5	506	U	C5-C4-O4	6.67	129.90	125.90
85	5	588	G	C6-N1-C2	-6.67	121.10	125.10
85	5	632	G	N1-C6-O6	-6.67	115.90	119.90
85	5	968	G	C6-N1-C2	-6.67	121.09	125.10
85	5	1425	U	C6-N1-C2	-6.67	117.00	121.00
85	5	2346	C	C2-N3-C4	6.67	123.24	119.90
85	5	3026	G	C5-N7-C8	-6.67	100.96	104.30
85	5	3179	U	C2-N1-C1'	6.67	125.71	117.70
85	5	3316	A	N1-C2-N3	6.67	132.64	129.30
37	7	87	G	N9-C4-C5	-6.67	102.73	105.40
38	8	98	U	N1-C2-N3	-6.67	110.89	114.90
1	2	1302	A	C4-C5-N7	6.67	114.04	110.70
36	1	785	G	N1-C2-N3	-6.67	119.90	123.90
36	1	1103	A	N7-C8-N9	-6.67	110.46	113.80
36	1	1935	G	OP2-P-O3'	6.67	119.88	105.20
36	1	2704	A	C6-N1-C2	-6.67	114.60	118.60
36	1	2760	C	N1-C2-N3	-6.67	114.53	119.20
36	1	2770	G	C5-C6-O6	6.67	132.60	128.60
80	6	109	G	C8-N9-C4	6.67	109.07	106.40
80	6	709	C	N1-C2-N3	-6.67	114.53	119.20
85	5	65	A	C8-N9-C4	6.67	108.47	105.80
85	5	1597	C	C5-C6-N1	6.67	124.34	121.00
85	5	2148	U	OP1-P-OP2	-6.67	109.59	119.60
56	n0	12	ARG	NE-CZ-NH1	-6.67	116.96	120.30
1	2	553	G	C4-C5-C6	6.67	122.80	118.80
1	2	613	G	C6-N1-C2	-6.67	121.10	125.10
36	1	1167	U	N1-C2-N3	6.67	118.90	114.90
36	1	2394	G	OP2-P-O3'	6.67	119.88	105.20
36	1	3022	G	C6-N1-C2	-6.67	121.10	125.10
36	1	3094	A	C5-C6-N1	6.67	121.03	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3180	A	O5'-P-OP1	-6.67	99.70	105.70
36	1	3264	G	C2-N3-C4	-6.67	108.56	111.90
80	6	54	C	OP1-P-OP2	-6.67	109.59	119.60
80	6	293	U	C6-N1-C2	6.67	125.00	121.00
80	6	871	G	N3-C2-N2	-6.67	115.23	119.90
80	6	1567	U	C2-N3-C4	-6.67	123.00	127.00
80	6	1747	G	OP1-P-O3'	6.67	119.88	105.20
85	5	913	A	C5-C6-N6	-6.67	118.36	123.70
85	5	1291	A	N1-C6-N6	6.67	122.60	118.60
85	5	2696	A	C5-N7-C8	-6.67	100.56	103.90
85	5	3197	G	N1-C2-N3	6.67	127.90	123.90
37	7	11	A	C6-N1-C2	-6.67	114.60	118.60
38	8	153	U	N3-C4-O4	6.67	124.07	119.40
36	1	109	A	C2-N3-C4	6.67	113.94	110.60
36	1	808	A	O5'-P-OP1	6.67	118.70	110.70
80	6	1264	G	N3-C4-C5	6.67	131.94	128.60
85	5	606	C	N1-C2-O2	-6.67	114.90	118.90
85	5	1083	G	C5-N7-C8	6.67	107.64	104.30
85	5	1857	C	N3-C2-O2	-6.67	117.23	121.90
85	5	1865	A	C8-N9-C4	6.67	108.47	105.80
85	5	2862	U	C4-C5-C6	6.67	123.70	119.70
85	5	3305	A	OP1-P-O3'	6.67	119.87	105.20
38	8	142	C	C5-C6-N1	-6.67	117.67	121.00
1	2	326	G	C2-N3-C4	6.67	115.23	111.90
1	2	348	U	C5-C6-N1	-6.67	119.37	122.70
36	1	91	G	C8-N9-C4	-6.67	103.73	106.40
36	1	208	C	OP1-P-O3'	6.67	119.87	105.20
36	1	267	G	O4'-C1'-N9	-6.67	102.86	108.20
36	1	292	U	N3-C2-O2	6.67	126.87	122.20
36	1	2150	G	C4-C5-C6	6.67	122.80	118.80
36	1	2872	A	C4-C5-N7	6.67	114.03	110.70
51	M5	113	LEU	CB-CG-CD1	-6.67	99.66	111.00
80	6	31	C	N1-C2-N3	6.67	123.87	119.20
80	6	361	C	C6-N1-C2	-6.67	117.63	120.30
80	6	1526	A	N9-C4-C5	6.67	108.47	105.80
80	6	1755	A	C6-C5-N7	-6.67	127.63	132.30
85	5	68	C	C4-C5-C6	-6.67	114.06	117.40
85	5	225	C	O5'-P-OP2	6.67	118.70	110.70
85	5	1652	G	OP1-P-OP2	-6.67	109.60	119.60
85	5	2730	G	C5-N7-C8	-6.67	100.97	104.30
85	5	2808	A	C6-N1-C2	-6.67	114.60	118.60
85	5	3156	U	N3-C4-O4	-6.67	114.73	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3325	G	N1-C2-N3	6.67	127.90	123.90
37	7	65	G	N1-C6-O6	6.67	123.90	119.90
1	2	1258	A	O5'-P-OP2	-6.67	99.70	105.70
1	2	1653	G	C4-C5-C6	6.67	122.80	118.80
36	1	276	U	C6-N1-C2	6.67	125.00	121.00
36	1	1793	C	C6-N1-C2	-6.67	117.63	120.30
36	1	2658	G	O5'-P-OP1	6.67	118.70	110.70
36	1	2733	A	OP1-P-OP2	-6.67	109.60	119.60
36	1	2918	G	N1-C2-N3	6.67	127.90	123.90
80	6	958	U	C6-N1-C2	-6.67	117.00	121.00
80	6	1585	U	C2-N3-C4	-6.67	123.00	127.00
80	6	1733	C	N1-C2-O2	6.67	122.90	118.90
85	5	120	G	C8-N9-C4	6.67	109.07	106.40
85	5	137	G	C6-N1-C2	6.67	129.10	125.10
36	1	143	G	N1-C2-N2	-6.67	110.20	116.20
36	1	1172	G	C4-C5-N7	6.67	113.47	110.80
36	1	1778	G	N7-C8-N9	-6.67	109.77	113.10
36	1	1800	A	C8-N9-C4	6.67	108.47	105.80
36	1	2577	C	C5-C6-N1	-6.67	117.67	121.00
36	1	2794	G	N1-C2-N2	-6.67	110.20	116.20
36	1	3307	A	C5-N7-C8	-6.67	100.57	103.90
85	5	61	A	O5'-P-OP1	-6.67	99.70	105.70
85	5	899	U	N1-C2-O2	-6.67	118.13	122.80
85	5	1832	C	OP1-P-OP2	6.67	129.60	119.60
85	5	1840	U	N3-C2-O2	-6.67	117.53	122.20
85	5	2308	C	OP2-P-O3'	6.67	119.86	105.20
85	5	2897	A	C6-N1-C2	-6.67	114.60	118.60
85	5	3045	G	N9-C4-C5	6.67	108.07	105.40
36	1	593	C	OP1-P-OP2	6.66	129.59	119.60
36	1	647	A	C4-C5-N7	-6.66	107.37	110.70
36	1	708	G	O5'-P-OP2	6.66	118.70	110.70
36	1	923	C	C4-C5-C6	-6.66	114.07	117.40
36	1	1101	G	N9-C4-C5	6.66	108.07	105.40
36	1	1216	C	N3-C2-O2	-6.66	117.23	121.90
36	1	1340	G	C5-C6-N1	6.66	114.83	111.50
36	1	1700	G	C5-C6-O6	6.66	132.60	128.60
36	1	2645	G	C4-C5-C6	6.66	122.80	118.80
36	1	2812	C	C5-C4-N4	-6.66	115.54	120.20
36	1	2983	C	N1-C2-O2	6.66	122.90	118.90
36	1	3058	U	N1-C2-N3	6.66	118.90	114.90
36	1	3286	G	N1-C2-N3	-6.66	119.90	123.90
36	1	3343	G	C2-N3-C4	-6.66	108.57	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1260	A	C8-N9-C4	-6.66	103.14	105.80
85	5	1352	A	N1-C6-N6	6.66	122.60	118.60
85	5	1400	G	C2-N3-C4	-6.66	108.57	111.90
85	5	1734	G	C5-C6-N1	-6.66	108.17	111.50
85	5	2175	U	C6-N1-C2	-6.66	117.00	121.00
85	5	2347	U	C4-C5-C6	6.66	123.70	119.70
85	5	2903	A	C2-N3-C4	-6.66	107.27	110.60
51	m5	41	ARG	NE-CZ-NH1	6.66	123.63	120.30
36	1	988	U	N3-C2-O2	6.66	126.86	122.20
36	1	1384	U	C5-C4-O4	6.66	129.90	125.90
36	1	1424	C	N3-C4-C5	6.66	124.56	121.90
36	1	2257	C	O4'-C1'-N1	6.66	113.53	108.20
1	2	49	C	O5'-P-OP1	-6.66	99.71	105.70
1	2	56	U	O5'-P-OP2	-6.66	99.70	105.70
1	2	193	U	C5-C6-N1	-6.66	119.37	122.70
1	2	1445	G	C4-C5-N7	6.66	113.46	110.80
36	1	386	A	C5-C6-N6	-6.66	118.37	123.70
36	1	2375	G	C8-N9-C4	6.66	109.06	106.40
36	1	2862	U	C6-N1-C2	6.66	125.00	121.00
36	1	3310	A	C4-C5-C6	6.66	120.33	117.00
80	6	376	C	O5'-P-OP1	-6.66	99.70	105.70
80	6	930	A	N1-C2-N3	6.66	132.63	129.30
80	6	1607	G	C4-C5-N7	-6.66	108.14	110.80
85	5	776	U	C2-N1-C1'	-6.66	109.71	117.70
85	5	1665	C	OP1-P-OP2	-6.66	109.61	119.60
85	5	1807	G	N1-C6-O6	6.66	123.90	119.90
1	2	734	G	C5-C6-O6	-6.66	124.61	128.60
36	1	815	G	N1-C2-N3	6.66	127.89	123.90
36	1	1655	G	N1-C2-N2	-6.66	110.21	116.20
36	1	2126	A	O5'-P-OP2	-6.66	99.71	105.70
36	1	2366	C	C5-C6-N1	-6.66	117.67	121.00
36	1	2661	G	C6-C5-N7	-6.66	126.41	130.40
36	1	2689	A	C4-C5-N7	-6.66	107.37	110.70
36	1	2887	A	N1-C2-N3	-6.66	125.97	129.30
36	1	3263	G	O5'-P-OP2	-6.66	99.71	105.70
80	6	573	C	N3-C4-C5	6.66	124.56	121.90
80	6	1140	G	N1-C2-N3	6.66	127.89	123.90
80	6	1591	C	N1-C2-O2	-6.66	114.91	118.90
85	5	55	G	N3-C4-N9	-6.66	122.00	126.00
85	5	1094	U	C2-N3-C4	6.66	131.00	127.00
85	5	1144	U	O5'-P-OP2	-6.66	99.71	105.70
85	5	2702	A	C6-C5-N7	-6.66	127.64	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2724	U	C5-C4-O4	6.66	129.90	125.90
1	2	545	A	C6-N1-C2	-6.66	114.61	118.60
1	2	1006	A	C5-C6-N1	-6.66	114.37	117.70
36	1	317	A	N1-C2-N3	6.66	132.63	129.30
36	1	859	G	C5-N7-C8	-6.66	100.97	104.30
36	1	2107	A	N1-C2-N3	6.66	132.63	129.30
36	1	3297	U	O5'-P-OP2	-6.66	99.71	105.70
78	Q2	41	ARG	NE-CZ-NH2	-6.66	116.97	120.30
80	6	160	C	N3-C4-N4	-6.66	113.34	118.00
80	6	241	U	N3-C4-O4	6.66	124.06	119.40
80	6	1013	A	C5-C6-N1	6.66	121.03	117.70
85	5	1809	A	C5-C6-N1	-6.66	114.37	117.70
85	5	2326	A	N1-C6-N6	-6.66	114.61	118.60
85	5	2599	U	C5-C6-N1	-6.66	119.37	122.70
85	5	3119	U	C5-C6-N1	-6.66	119.37	122.70
1	2	1086	U	N3-C4-C5	6.66	118.59	114.60
1	2	1095	G	C8-N9-C4	-6.66	103.74	106.40
36	1	1207	G	N3-C4-C5	6.66	131.93	128.60
36	1	1426	C	C6-N1-C1'	-6.66	112.81	120.80
80	6	1304	G	C6-N1-C2	-6.66	121.11	125.10
85	5	396	A	N1-C6-N6	-6.66	114.61	118.60
85	5	562	C	N3-C4-N4	6.66	122.66	118.00
85	5	2211	U	C4-C5-C6	6.66	123.69	119.70
85	5	2791	G	OP1-P-OP2	6.66	129.58	119.60
85	5	2958	A	OP1-P-OP2	-6.66	109.62	119.60
85	5	2997	G	C8-N9-C4	6.66	109.06	106.40
38	8	45	C	N3-C4-C5	-6.66	119.24	121.90
36	1	214	G	OP1-P-O3'	6.65	119.84	105.20
36	1	423	A	C8-N9-C4	-6.65	103.14	105.80
36	1	3331	U	C5-C4-O4	-6.65	121.91	125.90
85	5	846	A	C5-N7-C8	-6.65	100.57	103.90
85	5	1238	C	C4-C5-C6	-6.65	114.07	117.40
1	2	10	G	N3-C4-C5	-6.65	125.27	128.60
1	2	1424	C	C6-N1-C2	6.65	122.96	120.30
1	2	1652	U	N1-C2-O2	-6.65	118.14	122.80
36	1	1367	G	OP2-P-O3'	6.65	119.84	105.20
36	1	2663	G	N3-C2-N2	-6.65	115.24	119.90
36	1	2744	U	N1-C2-N3	6.65	118.89	114.90
36	1	2770	G	N1-C2-N3	6.65	127.89	123.90
38	4	63	G	C4-C5-C6	-6.65	114.81	118.80
80	6	295	A	C5-C6-N1	6.65	121.03	117.70
85	5	280	U	OP1-P-O3'	6.65	119.83	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	423	A	OP2-P-O3'	6.65	119.83	105.20
85	5	699	A	C2-N3-C4	-6.65	107.27	110.60
85	5	2361	A	N9-C4-C5	6.65	108.46	105.80
85	5	3213	A	N1-C2-N3	6.65	132.63	129.30
37	7	103	A	C4-C5-N7	6.65	114.03	110.70
1	2	975	A	OP1-P-OP2	-6.65	109.62	119.60
36	1	415	G	C5-N7-C8	-6.65	100.97	104.30
36	1	861	C	N3-C4-N4	6.65	122.66	118.00
36	1	927	C	C5-C4-N4	-6.65	115.55	120.20
36	1	3050	U	C5-C4-O4	6.65	129.89	125.90
36	1	3107	U	N1-C2-O2	6.65	127.45	122.80
38	4	135	G	N1-C2-N3	6.65	127.89	123.90
80	6	461	G	N9-C4-C5	-6.65	102.74	105.40
80	6	545	A	C4-C5-N7	-6.65	107.38	110.70
85	5	425	G	C5-N7-C8	-6.65	100.97	104.30
85	5	585	A	O5'-P-OP1	-6.65	99.72	105.70
85	5	1149	G	N3-C4-N9	-6.65	122.01	126.00
85	5	1718	G	C5-C6-O6	-6.65	124.61	128.60
85	5	2505	U	N3-C2-O2	-6.65	117.54	122.20
85	5	2616	C	O4'-C1'-N1	-6.65	102.88	108.20
85	5	2724	U	C5-C6-N1	6.65	126.03	122.70
85	5	2794	G	N3-C4-N9	6.65	129.99	126.00
1	2	969	G	C4-C5-N7	-6.65	108.14	110.80
1	2	1481	G	N3-C4-N9	6.65	129.99	126.00
36	1	1884	A	N9-C4-C5	6.65	108.46	105.80
36	1	1940	G	C5-C6-O6	6.65	132.59	128.60
36	1	2632	G	N7-C8-N9	-6.65	109.78	113.10
36	1	2812	C	N3-C4-C5	6.65	124.56	121.90
38	4	35	C	C6-N1-C2	-6.65	117.64	120.30
80	6	590	C	N1-C2-N3	6.65	123.85	119.20
80	6	1575	G	C2-N3-C4	6.65	115.22	111.90
85	5	427	C	OP1-P-O3'	-6.65	90.57	105.20
85	5	2931	C	N3-C4-N4	6.65	122.65	118.00
1	2	20	G	N3-C4-C5	6.65	131.92	128.60
1	2	34	G	O5'-P-OP2	-6.65	99.72	105.70
1	2	280	U	N3-C2-O2	6.65	126.85	122.20
1	2	1125	A	C8-N9-C4	-6.65	103.14	105.80
36	1	249	U	N3-C4-O4	-6.65	114.75	119.40
36	1	1059	G	C2-N3-C4	-6.65	108.58	111.90
36	1	1146	C	OP1-P-O3'	6.65	119.83	105.20
36	1	1397	C	N3-C2-O2	6.65	126.55	121.90
36	1	1594	A	OP1-P-O3'	6.65	119.83	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2162	U	O5'-P-OP2	-6.65	99.72	105.70
36	1	3202	G	C6-C5-N7	-6.65	126.41	130.40
36	1	3246	G	C5-C6-N1	-6.65	108.18	111.50
80	6	241	U	C5-C6-N1	6.65	126.02	122.70
80	6	346	G	N7-C8-N9	6.65	116.42	113.10
85	5	213	A	OP1-P-OP2	-6.65	109.63	119.60
85	5	407	A	C4-N9-C1'	6.65	138.26	126.30
85	5	419	G	C4-C5-N7	-6.65	108.14	110.80
85	5	1337	A	N1-C6-N6	6.65	122.59	118.60
85	5	2191	U	N3-C2-O2	-6.65	117.55	122.20
85	5	3300	U	N3-C4-C5	-6.65	110.61	114.60
42	15	107	ARG	NE-CZ-NH2	-6.65	116.98	120.30
36	1	2732	G	C6-N1-C2	-6.65	121.11	125.10
36	1	3006	A	C5-N7-C8	-6.65	100.58	103.90
36	1	3128	G	N7-C8-N9	6.65	116.42	113.10
36	1	3379	C	OP1-P-OP2	-6.65	109.63	119.60
36	1	3387	U	C2-N3-C4	-6.65	123.01	127.00
85	5	244	G	C5-C6-N1	6.65	114.82	111.50
85	5	2821	C	C6-N1-C2	-6.65	117.64	120.30
85	5	3024	A	N7-C8-N9	6.65	117.12	113.80
1	2	405	C	N3-C4-C5	6.64	124.56	121.90
36	1	761	A	C5-N7-C8	-6.64	100.58	103.90
36	1	1388	U	OP1-P-OP2	6.64	129.57	119.60
36	1	1547	G	O5'-P-OP1	-6.64	99.72	105.70
36	1	1888	U	N3-C4-C5	6.64	118.59	114.60
80	6	1323	C	N1-C2-O2	6.64	122.89	118.90
80	6	1534	G	N3-C4-C5	-6.64	125.28	128.60
85	5	26	A	C4-C5-C6	6.64	120.32	117.00
85	5	197	G	C4-C5-N7	6.64	113.46	110.80
85	5	294	U	C2-N1-C1'	-6.64	109.73	117.70
85	5	883	A	N1-C2-N3	6.64	132.62	129.30
85	5	997	A	N7-C8-N9	6.64	117.12	113.80
85	5	1312	C	C2-N3-C4	6.64	123.22	119.90
85	5	1776	G	N3-C4-C5	6.64	131.92	128.60
85	5	1853	U	C4-C5-C6	6.64	123.69	119.70
85	5	1894	U	OP1-P-OP2	-6.64	109.63	119.60
85	5	2407	C	C6-N1-C2	6.64	122.96	120.30
85	5	2646	C	N3-C4-N4	-6.64	113.35	118.00
85	5	3225	C	C2-N3-C4	6.64	123.22	119.90
1	2	1425	U	C6-N1-C2	6.64	124.98	121.00
36	1	1408	G	C6-N1-C2	-6.64	121.11	125.10
36	1	1527	C	OP1-P-OP2	6.64	129.56	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1574	C	C5-C6-N1	6.64	124.32	121.00
36	1	2229	A	C4-C5-C6	-6.64	113.68	117.00
36	1	2423	U	N3-C4-C5	-6.64	110.61	114.60
36	1	2642	A	C8-N9-C4	6.64	108.46	105.80
36	1	2737	C	N3-C4-N4	6.64	122.65	118.00
36	1	2910	A	N7-C8-N9	-6.64	110.48	113.80
80	6	1234	A	N7-C8-N9	6.64	117.12	113.80
80	6	1364	G	C5-C6-O6	-6.64	124.61	128.60
80	6	1384	A	N1-C6-N6	6.64	122.58	118.60
85	5	378	A	C5-N7-C8	6.64	107.22	103.90
85	5	725	G	O4'-C1'-N9	-6.64	102.89	108.20
85	5	1582	C	OP1-P-O3'	-6.64	90.59	105.20
85	5	1873	U	OP1-P-OP2	-6.64	109.64	119.60
37	7	75	G	N3-C4-N9	-6.64	122.01	126.00
36	1	189	G	C5-N7-C8	-6.64	100.98	104.30
36	1	221	A	O4'-C1'-N9	6.64	113.51	108.20
36	1	1746	U	N1-C2-N3	6.64	118.89	114.90
36	1	2691	A	OP1-P-OP2	-6.64	109.64	119.60
36	1	2870	C	N3-C4-N4	6.64	122.65	118.00
80	6	1525	A	C5-C6-N1	-6.64	114.38	117.70
85	5	2760	C	C2-N3-C4	-6.64	116.58	119.90
1	2	423	G	N7-C8-N9	6.64	116.42	113.10
36	1	114	A	N1-C6-N6	6.64	122.58	118.60
36	1	827	A	C5-C6-N1	-6.64	114.38	117.70
36	1	863	C	C4-C5-C6	-6.64	114.08	117.40
36	1	906	A	C5-N7-C8	6.64	107.22	103.90
36	1	1097	G	C2-N3-C4	6.64	115.22	111.90
36	1	1488	G	C5-C6-N1	-6.64	108.18	111.50
36	1	2994	A	N1-C2-N3	6.64	132.62	129.30
80	6	103	A	N3-C4-C5	-6.64	122.15	126.80
80	6	1063	U	C5-C4-O4	-6.64	121.92	125.90
85	5	722	G	C8-N9-C4	6.64	109.06	106.40
85	5	1222	G	C4-C5-N7	6.64	113.46	110.80
85	5	1389	G	C2-N3-C4	-6.64	108.58	111.90
85	5	1700	G	C6-N1-C2	-6.64	121.12	125.10
85	5	1755	C	N3-C2-O2	6.64	126.55	121.90
85	5	1792	C	OP1-P-OP2	6.64	129.56	119.60
85	5	1897	G	O5'-P-OP1	-6.64	99.72	105.70
85	5	2590	A	N7-C8-N9	6.64	117.12	113.80
85	5	3071	U	N1-C2-N3	6.64	118.88	114.90
85	5	3353	G	O5'-P-OP2	6.64	118.67	110.70
85	5	3365	U	N3-C4-O4	6.64	124.05	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	15	G	OP1-P-O3'	6.64	119.81	105.20
38	8	96	A	O5'-P-OP2	-6.64	99.72	105.70
38	8	129	C	N1-C2-O2	-6.64	114.92	118.90
1	2	30	G	C4-C5-N7	6.64	113.45	110.80
1	2	281	G	N3-C4-C5	-6.64	125.28	128.60
1	2	561	G	N1-C2-N3	6.64	127.88	123.90
36	1	881	C	C6-N1-C2	6.64	122.95	120.30
80	6	1377	U	C5-C4-O4	-6.64	121.92	125.90
80	6	1746	A	C2-N3-C4	-6.64	107.28	110.60
85	5	1948	G	C4-C5-N7	6.64	113.45	110.80
85	5	2612	U	O5'-P-OP1	-6.64	99.73	105.70
85	5	2825	C	N1-C2-N3	-6.64	114.55	119.20
36	1	3049	A	N9-C4-C5	-6.64	103.15	105.80
36	1	3315	G	C4-C5-N7	-6.64	108.14	110.80
36	1	3378	C	N3-C4-N4	6.64	122.65	118.00
38	4	36	G	N1-C6-O6	6.64	123.88	119.90
85	5	702	C	N3-C4-N4	6.64	122.65	118.00
85	5	807	A	C5-C6-N1	6.64	121.02	117.70
85	5	1590	G	C6-C5-N7	-6.64	126.42	130.40
85	5	3069	G	C6-N1-C2	-6.64	121.12	125.10
38	8	116	G	C5-C6-O6	-6.64	124.62	128.60
1	2	402	C	C6-N1-C2	-6.63	117.65	120.30
1	2	1101	G	C6-C5-N7	-6.63	126.42	130.40
1	2	1750	G	N1-C6-O6	-6.63	115.92	119.90
36	1	92	G	C6-N1-C2	-6.63	121.12	125.10
36	1	2697	A	N3-C4-C5	-6.63	122.16	126.80
52	M6	128	ARG	NE-CZ-NH2	6.63	123.62	120.30
80	6	12	U	N1-C2-N3	6.63	118.88	114.90
85	5	279	U	N1-C2-O2	-6.63	118.16	122.80
85	5	613	G	N1-C2-N2	6.63	122.17	116.20
85	5	628	A	C5-N7-C8	6.63	107.22	103.90
85	5	1655	G	C5-N7-C8	6.63	107.62	104.30
36	1	683	U	C4-C5-C6	6.63	123.68	119.70
36	1	919	U	N1-C2-N3	6.63	118.88	114.90
36	1	2753	G	C5-C6-N1	6.63	114.82	111.50
80	6	1649	G	O5'-P-OP1	6.63	118.66	110.70
85	5	1127	G	N3-C4-C5	-6.63	125.28	128.60
1	2	48	G	OP1-P-OP2	6.63	129.55	119.60
1	2	1338	C	N3-C2-O2	-6.63	117.26	121.90
36	1	210	U	OP1-P-OP2	6.63	129.55	119.60
36	1	1050	U	N1-C2-O2	6.63	127.44	122.80
36	1	1444	G	O5'-P-OP1	-6.63	99.73	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1477	A	C5-N7-C8	-6.63	100.58	103.90
36	1	2726	C	C4-C5-C6	6.63	120.72	117.40
36	1	2957	G	C2-N3-C4	-6.63	108.58	111.90
80	6	972	G	N7-C8-N9	6.63	116.42	113.10
80	6	1016	C	C6-N1-C2	-6.63	117.65	120.30
80	6	1750	A	C5-C6-N1	6.63	121.02	117.70
85	5	493	G	N1-C6-O6	6.63	123.88	119.90
85	5	713	U	C5-C4-O4	-6.63	121.92	125.90
85	5	815	G	C6-N1-C2	-6.63	121.12	125.10
85	5	1312	C	C4-C5-C6	6.63	120.72	117.40
85	5	1725	C	C4-C5-C6	6.63	120.72	117.40
85	5	1780	G	C5-N7-C8	-6.63	100.98	104.30
85	5	1780	G	N1-C2-N3	6.63	127.88	123.90
85	5	1845	G	C5-N7-C8	6.63	107.62	104.30
85	5	2604	U	N1-C2-O2	-6.63	118.16	122.80
85	5	2893	C	C4-C5-C6	-6.63	114.08	117.40
85	5	3198	U	OP1-P-OP2	6.63	129.55	119.60
1	2	858	G	C8-N9-C4	-6.63	103.75	106.40
36	1	658	G	C5-C6-N1	-6.63	108.19	111.50
1	2	101	U	C5-C6-N1	6.63	126.01	122.70
1	2	1752	U	N1-C2-N3	6.63	118.88	114.90
36	1	226	C	N3-C2-O2	6.63	126.54	121.90
36	1	396	A	C6-N1-C2	-6.63	114.62	118.60
36	1	594	U	N3-C4-O4	6.63	124.04	119.40
36	1	941	G	N7-C8-N9	6.63	116.41	113.10
36	1	1396	C	OP2-P-O3'	6.63	119.78	105.20
36	1	1643	A	N3-C4-C5	-6.63	122.16	126.80
36	1	1676	A	C5-N7-C8	-6.63	100.59	103.90
36	1	1698	C	N3-C2-O2	-6.63	117.26	121.90
36	1	1761	C	O4'-C1'-N1	6.63	113.50	108.20
36	1	2674	A	C6-N1-C2	-6.63	114.62	118.60
36	1	2828	G	OP1-P-O3'	-6.63	90.62	105.20
36	1	2837	A	O5'-P-OP2	-6.63	99.73	105.70
37	3	80	G	N1-C6-O6	-6.63	115.92	119.90
80	6	1178	G	OP1-P-O3'	6.63	119.78	105.20
85	5	380	U	OP2-P-O3'	6.63	119.78	105.20
85	5	1204	A	C4-C5-C6	6.63	120.31	117.00
85	5	1476	G	C5-C6-N1	-6.63	108.19	111.50
85	5	2240	G	OP1-P-O3'	6.63	119.78	105.20
85	5	2361	A	OP1-P-OP2	-6.63	109.66	119.60
85	5	2726	C	O5'-P-OP2	-6.63	99.73	105.70
38	8	114	G	N9-C4-C5	-6.63	102.75	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	8	U	C5-C4-O4	-6.63	121.92	125.90
1	2	273	G	C8-N9-C4	-6.63	103.75	106.40
1	2	956	A	C2-N3-C4	-6.63	107.29	110.60
1	2	1130	A	N7-C8-N9	6.63	117.11	113.80
1	2	1562	U	N3-C2-O2	-6.63	117.56	122.20
36	1	406	G	N1-C2-N2	-6.63	110.24	116.20
36	1	823	C	N3-C4-C5	-6.63	119.25	121.90
36	1	929	A	OP1-P-O3'	6.63	119.78	105.20
36	1	2290	C	O5'-P-OP1	6.63	118.65	110.70
37	3	96	U	OP1-P-OP2	-6.63	109.66	119.60
85	5	282	G	N3-C2-N2	6.63	124.54	119.90
85	5	364	G	N3-C4-C5	6.63	131.91	128.60
85	5	1172	G	N1-C6-O6	6.63	123.88	119.90
85	5	1828	A	N9-C4-C5	6.63	108.45	105.80
85	5	2954	U	N3-C2-O2	-6.63	117.56	122.20
49	m3	21	ARG	NE-CZ-NH1	-6.63	116.99	120.30
36	1	1631	C	C2-N3-C4	-6.62	116.59	119.90
36	1	1666	G	C4-C5-C6	6.62	122.78	118.80
36	1	3228	C	C5-C6-N1	-6.62	117.69	121.00
85	5	191	U	N3-C4-O4	-6.62	114.76	119.40
85	5	998	A	OP1-P-OP2	-6.62	109.66	119.60
41	14	98	ARG	NE-CZ-NH2	-6.62	116.99	120.30
36	1	88	A	C2-N3-C4	-6.62	107.29	110.60
36	1	1091	A	N1-C6-N6	-6.62	114.63	118.60
36	1	1164	G	N3-C4-C5	-6.62	125.29	128.60
36	1	1796	G	C5-N7-C8	-6.62	100.99	104.30
36	1	3102	G	OP1-P-OP2	-6.62	109.66	119.60
36	1	3243	A	N7-C8-N9	6.62	117.11	113.80
80	6	1385	G	C8-N9-C4	-6.62	103.75	106.40
80	6	1755	A	C5-N7-C8	-6.62	100.59	103.90
85	5	127	G	N1-C2-N2	6.62	122.16	116.20
85	5	1186	G	N7-C8-N9	6.62	116.41	113.10
85	5	1323	G	C5-C6-O6	6.62	132.57	128.60
85	5	1325	U	C2-N1-C1'	-6.62	109.75	117.70
85	5	1347	U	C2-N3-C4	6.62	130.97	127.00
85	5	1477	A	O5'-P-OP2	-6.62	99.74	105.70
85	5	2318	U	C5-C4-O4	6.62	129.87	125.90
85	5	3034	C	OP2-P-O3'	6.62	119.77	105.20
36	1	2421	U	OP1-P-OP2	6.62	129.53	119.60
36	1	2643	A	O4'-C1'-N9	-6.62	102.90	108.20
36	1	2916	U	C5-C4-O4	6.62	129.87	125.90
36	1	2992	U	OP1-P-O3'	-6.62	90.63	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	3	22	A	N3-C4-C5	-6.62	122.16	126.80
80	6	662	U	C5-C6-N1	6.62	126.01	122.70
80	6	979	A	C6-N1-C2	-6.62	114.63	118.60
80	6	1584	G	C2-N3-C4	-6.62	108.59	111.90
85	5	425	G	OP2-P-O3'	6.62	119.77	105.20
85	5	717	C	N3-C4-N4	-6.62	113.36	118.00
85	5	724	U	N1-C2-N3	6.62	118.87	114.90
85	5	935	U	O5'-P-OP2	-6.62	99.74	105.70
85	5	1005	G	C6-N1-C2	6.62	129.07	125.10
85	5	1170	A	OP2-P-O3'	6.62	119.77	105.20
85	5	1290	A	OP2-P-O3'	6.62	119.77	105.20
85	5	1890	U	O5'-P-OP1	6.62	118.65	110.70
85	5	2140	U	N1-C2-N3	6.62	118.87	114.90
85	5	2550	U	N3-C4-O4	-6.62	114.77	119.40
37	7	34	C	C6-N1-C2	6.62	122.95	120.30
37	7	95	A	C6-N1-C2	-6.62	114.63	118.60
36	1	617	G	N1-C2-N3	6.62	127.87	123.90
36	1	952	A	N9-C4-C5	6.62	108.45	105.80
36	1	1281	G	C8-N9-C4	-6.62	103.75	106.40
36	1	1816	A	N1-C6-N6	-6.62	114.63	118.60
36	1	1944	U	N1-C2-O2	-6.62	118.17	122.80
36	1	2430	A	N1-C6-N6	6.62	122.57	118.60
80	6	449	C	C5-C4-N4	6.62	124.83	120.20
80	6	1305	U	N1-C2-O2	6.62	127.43	122.80
80	6	1658	G	C4-C5-N7	6.62	113.45	110.80
80	6	1748	G	C4-C5-C6	6.62	122.77	118.80
85	5	206	G	N7-C8-N9	6.62	116.41	113.10
85	5	3064	U	C6-N1-C2	-6.62	117.03	121.00
85	5	3161	C	O5'-P-OP2	6.62	118.64	110.70
1	2	1636	C	N3-C4-N4	6.62	122.63	118.00
36	1	45	A	C5-C6-N6	6.62	128.99	123.70
36	1	846	A	N3-C4-C5	6.62	131.43	126.80
36	1	1358	C	C2-N1-C1'	-6.62	111.52	118.80
36	1	2277	C	N1-C2-O2	-6.62	114.93	118.90
36	1	2293	C	N1-C2-O2	6.62	122.87	118.90
36	1	2919	A	C4-C5-N7	6.62	114.01	110.70
36	1	2962	U	OP1-P-OP2	-6.62	109.67	119.60
36	1	3042	U	C5-C4-O4	-6.62	121.93	125.90
36	1	3140	G	C5-C6-N1	6.62	114.81	111.50
38	4	32	C	N1-C2-O2	-6.62	114.93	118.90
38	4	127	U	C5-C6-N1	6.62	126.01	122.70
85	5	215	G	OP1-P-O3'	6.62	119.76	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	304	G	C4-C5-N7	-6.62	108.15	110.80
85	5	644	G	C4-N9-C1'	6.62	135.10	126.50
85	5	1179	A	OP1-P-O3'	6.62	119.76	105.20
85	5	1404	G	N3-C2-N2	-6.62	115.27	119.90
85	5	2271	A	C6-C5-N7	6.62	136.93	132.30
85	5	3307	A	OP1-P-OP2	6.62	129.53	119.60
37	7	6	C	O5'-P-OP2	-6.62	99.74	105.70
38	8	148	G	C5-C6-N1	-6.62	108.19	111.50
1	2	648	G	C2-N3-C4	6.62	115.21	111.90
1	2	945	C	C5-C4-N4	-6.62	115.57	120.20
36	1	2242	A	C4-C5-C6	6.62	120.31	117.00
36	1	2879	C	C6-N1-C2	6.62	122.95	120.30
85	5	501	A	N7-C8-N9	-6.62	110.49	113.80
1	2	74	U	C6-N1-C2	6.62	124.97	121.00
1	2	1432	U	N3-C4-O4	6.62	124.03	119.40
1	2	1470	A	C8-N9-C4	6.62	108.45	105.80
36	1	61	A	OP1-P-OP2	6.62	129.52	119.60
36	1	101	G	N1-C2-N3	6.62	127.87	123.90
36	1	218	G	N7-C8-N9	6.62	116.41	113.10
36	1	383	G	N1-C2-N3	-6.62	119.93	123.90
36	1	720	A	N3-C4-C5	-6.62	122.17	126.80
36	1	3160	U	N1-C2-O2	6.62	127.43	122.80
36	1	3385	U	O5'-P-OP1	-6.62	99.75	105.70
80	6	1410	A	OP1-P-OP2	6.62	129.52	119.60
80	6	1590	G	C5-N7-C8	-6.62	100.99	104.30
80	6	1643	U	OP2-P-O3'	6.62	119.76	105.20
85	5	442	G	N1-C2-N3	-6.62	119.93	123.90
85	5	1276	U	C5-C4-O4	6.62	129.87	125.90
85	5	1608	C	N1-C2-O2	6.62	122.87	118.90
85	5	1779	C	O5'-P-OP1	-6.62	99.75	105.70
85	5	2364	G	C6-N1-C2	-6.62	121.13	125.10
85	5	2659	G	C4-C5-N7	6.62	113.45	110.80
85	5	2736	A	C2-N3-C4	-6.62	107.29	110.60
37	7	63	A	C4-N9-C1'	6.62	138.21	126.30
1	2	801	C	N3-C4-N4	6.61	122.63	118.00
1	2	1257	C	N1-C2-N3	6.61	123.83	119.20
36	1	630	A	C6-N1-C2	-6.61	114.63	118.60
36	1	659	G	C4-C5-N7	6.61	113.45	110.80
36	1	745	C	N1-C2-N3	-6.61	114.57	119.20
36	1	1473	G	N7-C8-N9	6.61	116.41	113.10
36	1	1604	G	N1-C2-N3	-6.61	119.93	123.90
36	1	2400	G	N3-C2-N2	6.61	124.53	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2912	G	OP2-P-O3'	6.61	119.75	105.20
36	1	3215	A	O5'-P-OP1	-6.61	99.75	105.70
80	6	7	G	C8-N9-C4	-6.61	103.75	106.40
80	6	458	G	N3-C2-N2	-6.61	115.27	119.90
85	5	567	G	C4-C5-N7	6.61	113.45	110.80
85	5	710	A	C6-C5-N7	-6.61	127.67	132.30
85	5	798	G	N3-C4-C5	6.61	131.91	128.60
85	5	1752	A	C5-N7-C8	-6.61	100.59	103.90
1	2	20	G	OP1-P-O3'	6.61	119.75	105.20
36	1	1842	A	C2-N3-C4	6.61	113.91	110.60
36	1	3307	A	C6-C5-N7	-6.61	127.67	132.30
80	6	586	G	N1-C2-N2	-6.61	110.25	116.20
80	6	814	A	C8-N9-C4	6.61	108.44	105.80
85	5	658	G	N3-C2-N2	-6.61	115.27	119.90
85	5	2937	G	N7-C8-N9	6.61	116.41	113.10
1	2	192	U	C5-C6-N1	6.61	126.00	122.70
1	2	334	G	N9-C4-C5	-6.61	102.76	105.40
1	2	545	A	N1-C6-N6	-6.61	114.63	118.60
36	1	998	A	C8-N9-C4	-6.61	103.16	105.80
36	1	1307	G	C5'-C4'-O4'	-6.61	101.17	109.10
36	1	1742	U	C5-C4-O4	-6.61	121.93	125.90
36	1	2882	U	N1-C2-O2	6.61	127.43	122.80
37	3	72	A	N1-C2-N3	6.61	132.60	129.30
80	6	163	G	N9-C4-C5	6.61	108.04	105.40
80	6	807	A	C8-N9-C4	-6.61	103.16	105.80
80	6	1071	U	C2-N1-C1'	-6.61	109.77	117.70
80	6	1757	G	C4-C5-N7	-6.61	108.16	110.80
85	5	243	G	OP2-P-O3'	6.61	119.74	105.20
85	5	345	G	C4-N9-C1'	6.61	135.09	126.50
85	5	769	G	C6-N1-C2	-6.61	121.13	125.10
85	5	2943	G	C4-C5-C6	6.61	122.77	118.80
37	7	54	U	C2-N3-C4	-6.61	123.03	127.00
1	2	806	G	N1-C2-N3	-6.61	119.94	123.90
1	2	1751	G	N9-C4-C5	6.61	108.04	105.40
36	1	369	A	C6-C5-N7	-6.61	127.67	132.30
36	1	884	A	C5-N7-C8	6.61	107.20	103.90
36	1	1734	G	N1-C2-N3	6.61	127.87	123.90
36	1	1899	G	N7-C8-N9	6.61	116.41	113.10
80	6	377	G	N3-C2-N2	6.61	124.53	119.90
80	6	417	A	C8-N9-C4	-6.61	103.16	105.80
85	5	406	G	N1-C2-N3	6.61	127.86	123.90
85	5	3052	G	C5-N7-C8	6.61	107.60	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	780	G	C4-C5-N7	6.61	113.44	110.80
36	1	136	G	C5-C6-O6	6.61	132.56	128.60
36	1	1367	G	C2-N3-C4	-6.61	108.60	111.90
36	1	2202	C	C6-N1-C2	-6.61	117.66	120.30
36	1	2433	U	C5-C6-N1	6.61	126.00	122.70
36	1	2591	A	C4-C5-N7	6.61	114.00	110.70
36	1	3123	A	C6-N1-C2	-6.61	114.64	118.60
36	1	3318	G	C6-N1-C2	-6.61	121.14	125.10
37	3	60	G	C4-C5-N7	-6.61	108.16	110.80
80	6	57	G	C4-C5-C6	6.61	122.77	118.80
80	6	332	U	C5-C6-N1	-6.61	119.40	122.70
80	6	1108	G	C5-N7-C8	-6.61	101.00	104.30
85	5	218	G	C5-C6-N1	6.61	114.80	111.50
85	5	1357	G	C6-N1-C2	-6.61	121.14	125.10
85	5	1531	C	C5-C4-N4	-6.61	115.58	120.20
85	5	1652	G	O5'-P-OP2	6.61	118.63	110.70
85	5	2343	C	C4-C5-C6	6.61	120.70	117.40
85	5	2896	A	O5'-P-OP1	6.61	118.63	110.70
85	5	2941	A	C6-N1-C2	-6.61	114.64	118.60
85	5	2978	U	N1-C2-N3	6.61	118.86	114.90
42	15	273	ARG	NE-CZ-NH2	6.61	123.60	120.30
1	2	16	G	N3-C2-N2	6.61	124.52	119.90
1	2	587	C	C2-N3-C4	6.61	123.20	119.90
1	2	1512	C	N3-C4-C5	-6.61	119.26	121.90
36	1	7	C	N3-C4-N4	-6.61	113.38	118.00
36	1	723	U	C5-C6-N1	-6.61	119.40	122.70
36	1	1833	G	C5-N7-C8	6.61	107.60	104.30
36	1	2671	A	O5'-P-OP2	-6.61	99.75	105.70
36	1	2942	C	N1-C2-N3	-6.61	114.58	119.20
36	1	2982	A	C4-C5-N7	-6.61	107.40	110.70
36	1	3130	A	C6-C5-N7	-6.61	127.68	132.30
36	1	3362	A	O4'-C1'-N9	6.61	113.48	108.20
80	6	1022	C	N3-C4-C5	6.61	124.54	121.90
85	5	237	G	N3-C2-N2	-6.61	115.28	119.90
85	5	1612	A	C2-N3-C4	-6.61	107.30	110.60
85	5	1882	G	N1-C2-N3	6.61	127.86	123.90
85	5	2262	A	O4'-C1'-N9	-6.61	102.92	108.20
85	5	2268	U	N3-C4-C5	-6.61	110.64	114.60
85	5	2325	G	C5-N7-C8	-6.61	101.00	104.30
85	5	2916	U	O4'-C1'-N1	6.61	113.48	108.20
85	5	3024	A	C5-C6-N6	6.61	128.99	123.70
85	5	3266	G	C6-C5-N7	6.61	134.36	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	7	67	G	C5-C6-O6	6.61	132.56	128.60
1	2	1311	G	N3-C4-C5	6.60	131.90	128.60
1	2	1643	A	N9-C4-C5	-6.60	103.16	105.80
1	2	1766	C	N1-C2-O2	6.60	122.86	118.90
36	1	1107	C	N1-C2-O2	-6.60	114.94	118.90
1	2	967	G	C5-C6-N1	-6.60	108.20	111.50
1	2	1000	U	C5-C4-O4	6.60	129.86	125.90
36	1	421	G	C6-N1-C2	-6.60	121.14	125.10
36	1	604	G	N1-C6-O6	6.60	123.86	119.90
36	1	699	A	O5'-P-OP1	-6.60	99.76	105.70
36	1	846	A	C5-N7-C8	-6.60	100.60	103.90
36	1	1006	A	OP1-P-OP2	6.60	129.50	119.60
36	1	1750	A	OP1-P-OP2	6.60	129.50	119.60
36	1	2912	G	N3-C4-C5	-6.60	125.30	128.60
36	1	3095	U	C5-C6-N1	6.60	126.00	122.70
80	6	313	U	OP2-P-O3'	6.60	119.73	105.20
80	6	429	G	C4-C5-C6	6.60	122.76	118.80
80	6	542	A	O5'-P-OP1	-6.60	99.76	105.70
80	6	1309	C	N3-C2-O2	-6.60	117.28	121.90
80	6	1433	G	C8-N9-C4	-6.60	103.76	106.40
85	5	3	U	N3-C2-O2	-6.60	117.58	122.20
85	5	1602	A	O5'-P-OP1	-6.60	99.76	105.70
85	5	2121	G	N7-C8-N9	-6.60	109.80	113.10
37	7	32	U	C5-C6-N1	-6.60	119.40	122.70
38	8	78	G	C5-C6-N1	6.60	114.80	111.50
36	1	748	U	N3-C4-C5	6.60	118.56	114.60
36	1	780	A	C5-C6-N6	6.60	128.98	123.70
36	1	1594	A	C5-C6-N6	6.60	128.98	123.70
36	1	1764	U	C5-C6-N1	6.60	126.00	122.70
36	1	2679	A	C2-N3-C4	-6.60	107.30	110.60
36	1	2746	A	C5-C6-N1	-6.60	114.40	117.70
36	1	3329	U	OP1-P-OP2	6.60	129.50	119.60
80	6	540	G	C5-N7-C8	6.60	107.60	104.30
85	5	1317	A	N9-C4-C5	-6.60	103.16	105.80
85	5	1462	A	N1-C2-N3	6.60	132.60	129.30
85	5	2201	G	C8-N9-C1'	-6.60	118.42	127.00
38	8	96	A	C4-C5-C6	-6.60	113.70	117.00
1	2	1745	A	N1-C6-N6	6.60	122.56	118.60
36	1	1034	U	N3-C2-O2	6.60	126.82	122.20
36	1	1287	A	N9-C4-C5	6.60	108.44	105.80
36	1	1402	C	OP1-P-O3'	6.60	119.72	105.20
36	1	2569	A	N1-C6-N6	-6.60	114.64	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3062	G	C6-C5-N7	-6.60	126.44	130.40
80	6	545	A	N1-C6-N6	-6.60	114.64	118.60
80	6	614	C	C6-N1-C2	6.60	122.94	120.30
80	6	798	C	N3-C4-N4	6.60	122.62	118.00
80	6	1113	A	C5-C6-N6	6.60	128.98	123.70
80	6	1348	A	C5-C6-N6	-6.60	118.42	123.70
85	5	74	G	N7-C8-N9	6.60	116.40	113.10
85	5	350	C	C2-N3-C4	6.60	123.20	119.90
85	5	1296	C	C2-N1-C1'	6.60	126.06	118.80
85	5	1546	A	N1-C6-N6	6.60	122.56	118.60
85	5	1810	A	C8-N9-C4	6.60	108.44	105.80
85	5	3059	G	N1-C6-O6	-6.60	115.94	119.90
85	5	3278	C	C6-N1-C2	6.60	122.94	120.30
1	2	753	A	O5'-P-OP2	-6.60	99.76	105.70
1	2	1332	G	O5'-P-OP1	-6.60	99.76	105.70
1	2	1457	G	N7-C8-N9	-6.60	109.80	113.10
36	1	98	G	N3-C4-N9	-6.60	122.04	126.00
36	1	277	G	C5-C6-O6	-6.60	124.64	128.60
36	1	2771	U	O5'-P-OP1	-6.60	99.76	105.70
36	1	3087	A	C5-N7-C8	6.60	107.20	103.90
38	4	89	A	N9-C4-C5	-6.60	103.16	105.80
80	6	208	U	C6-N1-C2	6.60	124.96	121.00
85	5	583	G	C4-C5-C6	6.60	122.76	118.80
85	5	1163	A	C6-N1-C2	-6.60	114.64	118.60
85	5	1232	C	C6-N1-C2	-6.60	117.66	120.30
85	5	1299	U	O5'-P-OP1	-6.60	99.76	105.70
85	5	1929	G	N3-C2-N2	6.60	124.52	119.90
85	5	2147	A	N7-C8-N9	6.60	117.10	113.80
85	5	2700	G	C8-N9-C4	6.60	109.04	106.40
85	5	2821	C	N1-C2-N3	6.60	123.82	119.20
85	5	3327	G	C4-N9-C1'	6.60	135.08	126.50
38	8	8	C	O5'-P-OP2	-6.60	99.76	105.70
36	1	997	A	O5'-P-OP1	6.60	118.61	110.70
36	1	1020	G	N1-C6-O6	6.60	123.86	119.90
36	1	1710	C	C5-C4-N4	-6.60	115.58	120.20
85	5	190	U	N1-C2-O2	6.60	127.42	122.80
85	5	1477	A	C5-C6-N1	6.60	121.00	117.70
85	5	1480	G	N3-C4-C5	6.60	131.90	128.60
85	5	2402	A	C5-C6-N1	6.60	121.00	117.70
1	2	87	C	N3-C4-N4	6.59	122.62	118.00
36	1	38	U	C6-N1-C2	6.59	124.96	121.00
36	1	270	U	C5-C6-N1	6.59	126.00	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1790	G	N3-C2-N2	-6.59	115.28	119.90
36	1	2111	G	N9-C4-C5	-6.59	102.76	105.40
36	1	3055	U	N1-C2-N3	-6.59	110.94	114.90
80	6	78	A	C8-N9-C4	6.59	108.44	105.80
80	6	1325	A	C5-C6-N1	-6.59	114.40	117.70
85	5	115	A	N9-C4-C5	-6.59	103.16	105.80
85	5	1101	G	C6-N1-C2	-6.59	121.14	125.10
85	5	1385	C	N3-C4-C5	-6.59	119.26	121.90
85	5	2352	A	O5'-P-OP2	-6.59	99.77	105.70
85	5	2365	C	OP1-P-OP2	6.59	129.49	119.60
1	2	921	G	C8-N9-C4	-6.59	103.76	106.40
36	1	2871	G	OP1-P-O3'	6.59	119.70	105.20
38	4	43	A	N9-C4-C5	-6.59	103.16	105.80
85	5	1139	G	OP1-P-OP2	-6.59	109.71	119.60
85	5	1699	A	N1-C2-N3	6.59	132.60	129.30
85	5	1777	U	C5-C6-N1	6.59	126.00	122.70
85	5	3343	G	C5-C6-O6	6.59	132.56	128.60
1	2	308	C	C6-N1-C2	-6.59	117.66	120.30
1	2	1738	A	C4-C5-C6	6.59	120.30	117.00
36	1	89	A	N1-C2-N3	6.59	132.59	129.30
36	1	102	C	C2-N3-C4	-6.59	116.60	119.90
36	1	178	U	N1-C2-N3	6.59	118.86	114.90
36	1	341	G	OP1-P-OP2	-6.59	109.71	119.60
36	1	812	G	C5-N7-C8	-6.59	101.00	104.30
80	6	1789	G	C4-C5-N7	-6.59	108.16	110.80
85	5	6	A	C5-N7-C8	6.59	107.20	103.90
85	5	1395	G	C6-N1-C2	-6.59	121.15	125.10
85	5	1430	U	C5-C6-N1	-6.59	119.41	122.70
85	5	2621	G	O5'-P-OP1	6.59	118.61	110.70
36	1	792	G	C5-N7-C8	-6.59	101.00	104.30
36	1	1226	G	N3-C4-C5	6.59	131.90	128.60
36	1	2303	A	C5-C6-N6	-6.59	118.43	123.70
36	1	2845	A	C5-C6-N1	-6.59	114.41	117.70
36	1	2995	A	N1-C6-N6	6.59	122.55	118.60
85	5	1519	G	O5'-P-OP2	-6.59	99.77	105.70
85	5	2915	U	N3-C4-O4	6.59	124.01	119.40
85	5	2957	G	C2-N3-C4	-6.59	108.61	111.90
37	7	59	U	OP1-P-OP2	-6.59	109.72	119.60
43	16	77	ARG	NE-CZ-NH2	-6.59	117.00	120.30
36	1	2317	A	N9-C4-C5	6.59	108.44	105.80
36	1	3202	G	N1-C6-O6	6.59	123.85	119.90
85	5	2408	U	C4-C5-C6	6.59	123.65	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	106	C	N1-C2-O2	6.59	122.85	118.90
1	2	22	A	C4-C5-N7	6.59	113.99	110.70
1	2	407	A	N1-C2-N3	6.59	132.59	129.30
36	1	350	C	C6-N1-C2	6.59	122.94	120.30
36	1	655	C	N3-C4-N4	6.59	122.61	118.00
36	1	730	C	C6-N1-C2	6.59	122.93	120.30
36	1	902	G	C8-N9-C4	-6.59	103.77	106.40
36	1	1432	C	C2-N1-C1'	6.59	126.05	118.80
36	1	1545	A	N9-C4-C5	6.59	108.44	105.80
36	1	1899	G	C4-C5-N7	-6.59	108.17	110.80
36	1	2430	A	OP1-P-OP2	-6.59	109.72	119.60
36	1	2844	C	C2-N3-C4	6.59	123.19	119.90
37	3	100	C	OP1-P-OP2	6.59	129.48	119.60
38	4	47	C	N3-C4-C5	6.59	124.53	121.90
38	4	56	G	C8-N9-C1'	-6.59	118.44	127.00
80	6	19	A	N9-C4-C5	-6.59	103.17	105.80
80	6	127	G	N3-C4-C5	6.59	131.89	128.60
80	6	1655	A	C6-C5-N7	6.59	136.91	132.30
85	5	738	A	C5-N7-C8	-6.59	100.61	103.90
85	5	803	C	C6-N1-C2	-6.59	117.67	120.30
85	5	816	A	N7-C8-N9	6.59	117.09	113.80
85	5	1418	A	N7-C8-N9	6.59	117.09	113.80
85	5	1694	U	O5'-P-OP2	-6.59	99.77	105.70
85	5	2268	U	N1-C2-N3	-6.59	110.95	114.90
85	5	2398	A	N1-C6-N6	-6.59	114.65	118.60
1	2	1415	U	C6-N1-C2	6.58	124.95	121.00
1	2	1494	U	OP1-P-O3'	6.58	119.69	105.20
36	1	360	G	C4-N9-C1'	6.58	135.06	126.50
80	6	385	A	N1-C2-N3	6.58	132.59	129.30
85	5	169	U	N3-C4-C5	6.58	118.55	114.60
85	5	330	G	N3-C4-C5	6.58	131.89	128.60
85	5	1651	U	C4-C5-C6	6.58	123.65	119.70
85	5	3081	C	N3-C4-C5	-6.58	119.27	121.90
85	5	3349	C	C6-N1-C2	6.58	122.93	120.30
1	2	443	C	C6-N1-C2	-6.58	117.67	120.30
1	2	1588	G	C6-C5-N7	-6.58	126.45	130.40
36	1	120	G	C6-C5-N7	6.58	134.35	130.40
36	1	630	A	C2-N3-C4	6.58	113.89	110.60
36	1	726	G	C6-N1-C2	-6.58	121.15	125.10
36	1	1520	G	C5-C6-O6	6.58	132.55	128.60
36	1	2098	C	C5-C6-N1	6.58	124.29	121.00
36	1	3199	G	O5'-P-OP1	-6.58	99.78	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	3	52	G	N3-C2-N2	-6.58	115.29	119.90
38	4	66	A	O5'-P-OP1	6.58	118.60	110.70
80	6	1664	C	N1-C2-N3	-6.58	114.59	119.20
85	5	678	G	N1-C6-O6	6.58	123.85	119.90
85	5	683	U	C2-N3-C4	6.58	130.95	127.00
85	5	1040	A	N1-C6-N6	-6.58	114.65	118.60
85	5	1366	A	C6-N1-C2	-6.58	114.65	118.60
85	5	2892	A	C4-C5-C6	6.58	120.29	117.00
85	5	2895	G	N3-C2-N2	-6.58	115.29	119.90
85	5	2927	C	N3-C2-O2	6.58	126.51	121.90
85	5	2933	A	N1-C2-N3	6.58	132.59	129.30
85	5	3324	C	N3-C2-O2	6.58	126.51	121.90
1	2	338	C	C2-N3-C4	-6.58	116.61	119.90
1	2	345	U	N1-C2-O2	-6.58	118.19	122.80
1	2	416	A	N9-C4-C5	-6.58	103.17	105.80
1	2	1182	G	C5-C6-O6	-6.58	124.65	128.60
36	1	662	U	N1-C2-O2	-6.58	118.19	122.80
36	1	931	C	C5-C4-N4	-6.58	115.59	120.20
36	1	1130	A	N1-C2-N3	6.58	132.59	129.30
36	1	1461	A	C5-N7-C8	-6.58	100.61	103.90
36	1	1699	A	C5-C6-N1	-6.58	114.41	117.70
36	1	1809	A	C5-N7-C8	6.58	107.19	103.90
36	1	2334	U	O5'-P-OP2	-6.58	99.78	105.70
36	1	2375	G	OP1-P-OP2	-6.58	109.73	119.60
80	6	1002	G	C4-C5-N7	6.58	113.43	110.80
80	6	1093	A	O5'-P-OP2	-6.58	99.78	105.70
80	6	1289	U	N3-C4-O4	6.58	124.01	119.40
80	6	1523	G	C8-N9-C4	-6.58	103.77	106.40
85	5	697	A	C2-N3-C4	-6.58	107.31	110.60
85	5	1320	C	N1-C2-O2	-6.58	114.95	118.90
85	5	1346	G	N3-C2-N2	-6.58	115.29	119.90
85	5	1468	A	C5-N7-C8	-6.58	100.61	103.90
85	5	2781	U	O5'-P-OP2	-6.58	99.78	105.70
85	5	2983	C	C2-N3-C4	6.58	123.19	119.90
85	5	2996	U	O5'-P-OP2	-6.58	99.78	105.70
85	5	3126	C	C5-C4-N4	6.58	124.81	120.20
36	1	91	G	C4-C5-N7	-6.58	108.17	110.80
36	1	3342	A	C5-C6-N1	-6.58	114.41	117.70
38	4	88	A	C5-C6-N6	6.58	128.96	123.70
38	4	100	U	O5'-P-OP2	6.58	118.60	110.70
80	6	138	A	O5'-P-OP1	-6.58	99.78	105.70
80	6	449	C	C6-N1-C2	6.58	122.93	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	660	A	N7-C8-N9	-6.58	110.51	113.80
85	5	686	G	C4-C5-C6	6.58	122.75	118.80
85	5	1450	G	N7-C8-N9	6.58	116.39	113.10
85	5	3266	G	OP1-P-O3'	6.58	119.67	105.20
1	2	225	A	N1-C6-N6	-6.58	114.65	118.60
1	2	613	G	N3-C4-N9	6.58	129.95	126.00
1	2	988	A	C5-N7-C8	6.58	107.19	103.90
1	2	1096	A	O5'-P-OP1	6.58	118.59	110.70
1	2	1607	C	C6-N1-C2	6.58	122.93	120.30
36	1	196	G	OP1-P-OP2	6.58	129.47	119.60
36	1	1393	A	C5-N7-C8	6.58	107.19	103.90
36	1	1910	A	N1-C2-N3	-6.58	126.01	129.30
36	1	1935	G	N3-C2-N2	6.58	124.50	119.90
36	1	1949	G	N1-C2-N3	-6.58	119.95	123.90
36	1	2225	U	O5'-P-OP1	-6.58	99.78	105.70
36	1	2254	U	C6-N1-C2	-6.58	117.05	121.00
36	1	2932	U	OP1-P-OP2	6.58	129.47	119.60
36	1	2964	G	C5-C6-N1	6.58	114.79	111.50
36	1	3321	C	N1-C2-O2	-6.58	114.95	118.90
36	1	3349	C	C6-N1-C2	-6.58	117.67	120.30
80	6	998	A	C8-N9-C4	-6.58	103.17	105.80
85	5	36	C	C6-N1-C2	-6.58	117.67	120.30
85	5	84	U	C6-N1-C2	6.58	124.95	121.00
85	5	725	G	C5-C6-O6	6.58	132.55	128.60
85	5	1193	A	N1-C6-N6	-6.58	114.65	118.60
85	5	2639	G	C4-N9-C1'	6.58	135.05	126.50
85	5	3003	G	N9-C4-C5	6.58	108.03	105.40
85	5	3294	A	C4-C5-C6	6.58	120.29	117.00
36	1	673	U	C4-C5-C6	-6.58	115.75	119.70
36	1	1116	G	C2-N3-C4	-6.58	108.61	111.90
36	1	3209	A	O5'-P-OP2	-6.58	99.78	105.70
38	4	106	C	O4'-C1'-N1	-6.58	102.94	108.20
85	5	215	G	C4-C5-C6	6.58	122.75	118.80
85	5	671	U	N1-C2-N3	-6.58	110.95	114.90
85	5	1047	A	C6-C5-N7	-6.58	127.70	132.30
85	5	1152	G	C4-C5-C6	6.58	122.75	118.80
85	5	1546	A	C2-N3-C4	-6.58	107.31	110.60
85	5	2554	A	C5-C6-N1	-6.58	114.41	117.70
85	5	2798	C	N1-C2-O2	6.58	122.85	118.90
85	5	2814	G	C2-N3-C4	-6.58	108.61	111.90
1	2	1372	C	N1-C2-O2	6.58	122.85	118.90
36	1	107	A	N7-C8-N9	-6.58	110.51	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	582	G	N3-C4-N9	-6.58	122.05	126.00
36	1	2218	G	N7-C8-N9	-6.58	109.81	113.10
36	1	3034	C	C6-N1-C2	-6.58	117.67	120.30
80	6	185	U	N1-C2-N3	-6.58	110.95	114.90
80	6	1119	G	N9-C4-C5	6.58	108.03	105.40
10	s8	18	ARG	NE-CZ-NH1	-6.58	117.01	120.30
85	5	780	A	N3-C4-N9	-6.58	122.14	127.40
85	5	1462	A	C5-N7-C8	-6.58	100.61	103.90
85	5	1775	G	N3-C2-N2	6.58	124.50	119.90
85	5	2238	G	O5'-P-OP1	6.58	118.59	110.70
85	5	2600	C	O5'-P-OP2	6.58	118.59	110.70
38	8	134	G	C2-N3-C4	-6.58	108.61	111.90
1	2	121	U	N3-C2-O2	-6.57	117.60	122.20
1	2	365	G	OP1-P-OP2	-6.57	109.74	119.60
1	2	761	G	C5-C6-N1	-6.57	108.21	111.50
1	2	1363	U	N3-C4-C5	6.57	118.54	114.60
36	1	299	G	N3-C4-N9	-6.57	122.06	126.00
36	1	627	U	N1-C2-O2	-6.57	118.20	122.80
36	1	678	G	N1-C2-N3	6.57	127.84	123.90
36	1	847	A	C2-N3-C4	6.57	113.89	110.60
36	1	904	A	N3-C4-C5	6.57	131.40	126.80
36	1	908	G	C4-N9-C1'	6.57	135.04	126.50
36	1	1273	A	C2-N3-C4	6.57	113.89	110.60
36	1	1443	G	OP1-P-O3'	6.57	119.66	105.20
36	1	2834	G	N3-C2-N2	6.57	124.50	119.90
36	1	2868	U	C5-C4-O4	6.57	129.84	125.90
36	1	3033	A	OP1-P-O3'	6.57	119.66	105.20
36	1	3037	U	C4-C5-C6	6.57	123.64	119.70
80	6	589	C	N1-C2-N3	-6.57	114.60	119.20
85	5	23	A	C4-C5-C6	6.57	120.29	117.00
85	5	1231	A	N1-C6-N6	6.57	122.54	118.60
85	5	2178	A	OP1-P-O3'	6.57	119.66	105.20
85	5	2924	U	C5-C6-N1	-6.57	119.41	122.70
85	5	2933	A	OP2-P-O3'	6.57	119.66	105.20
85	5	2945	G	N7-C8-N9	-6.57	109.81	113.10
37	7	52	G	C5-N7-C8	6.57	107.59	104.30
69	o3	73	ARG	NE-CZ-NH1	-6.57	117.01	120.30
71	o5	28	LEU	CA-CB-CG	6.57	130.42	115.30
36	1	559	A	C5-N7-C8	-6.57	100.61	103.90
36	1	1311	G	C5-C6-O6	-6.57	124.66	128.60
36	1	3275	U	C5-C4-O4	6.57	129.84	125.90
36	1	3334	U	C5-C4-O4	6.57	129.84	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	23	U	N3-C4-O4	-6.57	114.80	119.40
80	6	1286	U	C6-N1-C2	6.57	124.94	121.00
85	5	349	A	N9-C4-C5	6.57	108.43	105.80
85	5	355	A	C6-N1-C2	-6.57	114.66	118.60
85	5	1669	C	C2-N3-C4	-6.57	116.61	119.90
85	5	1898	G	N3-C2-N2	-6.57	115.30	119.90
85	5	2410	U	N3-C2-O2	6.57	126.80	122.20
85	5	2666	C	N1-C2-O2	-6.57	114.96	118.90
85	5	3353	G	C2-N3-C4	-6.57	108.61	111.90
38	8	28	C	C4-C5-C6	-6.57	114.11	117.40
1	2	336	G	C5-C6-N1	6.57	114.78	111.50
1	2	434	G	C4-C5-C6	6.57	122.74	118.80
1	2	1130	A	C4-C5-N7	6.57	113.98	110.70
36	1	94	G	OP2-P-O3'	6.57	119.65	105.20
36	1	761	A	N3-C4-N9	-6.57	122.14	127.40
36	1	800	G	N3-C2-N2	-6.57	115.30	119.90
36	1	933	A	O5'-P-OP2	-6.57	99.79	105.70
36	1	1379	G	C6-N1-C2	-6.57	121.16	125.10
36	1	1381	A	N7-C8-N9	-6.57	110.52	113.80
36	1	1535	A	C8-N9-C4	-6.57	103.17	105.80
36	1	3109	G	C4-C5-C6	-6.57	114.86	118.80
38	4	80	A	C6-C5-N7	6.57	136.90	132.30
80	6	57	G	C8-N9-C4	-6.57	103.77	106.40
80	6	239	C	N3-C2-O2	6.57	126.50	121.90
80	6	267	U	N1-C2-O2	-6.57	118.20	122.80
80	6	335	U	O5'-P-OP1	-6.57	99.79	105.70
80	6	403	G	O5'-P-OP2	-6.57	99.79	105.70
80	6	787	G	C5-C6-N1	-6.57	108.22	111.50
80	6	1199	G	C5-N7-C8	-6.57	101.02	104.30
80	6	1778	G	O5'-P-OP2	-6.57	99.79	105.70
85	5	308	A	O5'-P-OP1	6.57	118.58	110.70
85	5	662	U	C2-N3-C4	-6.57	123.06	127.00
85	5	710	A	N1-C6-N6	6.57	122.54	118.60
85	5	1483	G	C6-C5-N7	6.57	134.34	130.40
85	5	1524	A	C4-C5-C6	6.57	120.28	117.00
85	5	1562	C	OP1-P-OP2	-6.57	109.74	119.60
85	5	1665	C	N3-C4-N4	-6.57	113.40	118.00
85	5	1707	A	C6-N1-C2	-6.57	114.66	118.60
37	7	16	U	C5-C4-O4	6.57	129.84	125.90
1	2	418	G	C6-N1-C2	-6.57	121.16	125.10
36	1	1437	C	N3-C2-O2	-6.57	117.30	121.90
36	1	3030	G	N7-C8-N9	6.57	116.39	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3248	C	N3-C4-N4	6.57	122.60	118.00
80	6	408	C	P-O3'-C3'	-6.57	111.82	119.70
80	6	1041	G	C5-C6-N1	-6.57	108.22	111.50
80	6	1723	U	C2-N3-C4	-6.57	123.06	127.00
80	6	1754	A	N9-C4-C5	6.57	108.43	105.80
85	5	2326	A	OP2-P-O3'	6.57	119.65	105.20
85	5	2732	G	C6-C5-N7	-6.57	126.46	130.40
85	5	3126	C	OP2-P-O3'	6.57	119.65	105.20
1	2	1018	G	N3-C2-N2	6.57	124.50	119.90
36	1	313	A	N1-C2-N3	6.57	132.58	129.30
36	1	650	C	N3-C2-O2	6.57	126.50	121.90
36	1	713	U	C4-C5-C6	6.57	123.64	119.70
36	1	918	C	C5-C6-N1	6.57	124.28	121.00
36	1	981	U	C2-N3-C4	6.57	130.94	127.00
36	1	1391	C	N3-C4-C5	6.57	124.53	121.90
36	1	1654	A	C5-C6-N1	6.57	120.98	117.70
36	1	2285	C	OP2-P-O3'	6.57	119.65	105.20
36	1	2386	A	C5-C6-N6	-6.57	118.45	123.70
36	1	2878	G	N3-C4-C5	6.57	131.88	128.60
36	1	3378	C	N1-C2-N3	6.57	123.80	119.20
85	5	1005	G	OP2-P-O3'	6.57	119.65	105.20
85	5	1206	G	C8-N9-C4	-6.57	103.77	106.40
85	5	1301	A	C6-C5-N7	-6.57	127.70	132.30
85	5	1343	A	N1-C2-N3	6.57	132.58	129.30
85	5	1444	G	C4-N9-C1'	6.57	135.04	126.50
85	5	1807	G	OP1-P-OP2	-6.57	109.75	119.60
40	13	167	ARG	NE-CZ-NH1	6.57	123.58	120.30
1	2	1274	G	N3-C4-N9	-6.57	122.06	126.00
36	1	19	U	OP1-P-OP2	6.57	129.45	119.60
36	1	78	U	C6-N1-C2	-6.57	117.06	121.00
36	1	555	U	C4-C5-C6	6.57	123.64	119.70
36	1	707	U	N3-C4-O4	-6.57	114.81	119.40
36	1	2397	A	C8-N9-C4	6.57	108.43	105.80
36	1	3085	G	C2-N3-C4	-6.57	108.62	111.90
36	1	3247	G	O5'-P-OP1	6.57	118.58	110.70
37	3	93	C	N1-C2-O2	-6.57	114.96	118.90
80	6	308	C	O5'-P-OP2	-6.57	99.79	105.70
80	6	643	G	C4-C5-N7	6.57	113.43	110.80
80	6	796	A	N1-C2-N3	6.57	132.58	129.30
85	5	173	G	O5'-P-OP2	-6.57	99.79	105.70
85	5	419	G	C5-N7-C8	6.57	107.58	104.30
85	5	869	G	N3-C2-N2	6.57	124.50	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1770	G	N3-C4-C5	-6.57	125.32	128.60
85	5	2321	A	N3-C4-C5	6.57	131.40	126.80
85	5	2916	U	N1-C2-O2	6.57	127.40	122.80
37	7	52	G	N3-C2-N2	-6.57	115.30	119.90
1	2	47	A	N1-C2-N3	6.56	132.58	129.30
1	2	896	G	N1-C6-O6	6.56	123.84	119.90
36	1	665	A	C2-N3-C4	6.56	113.88	110.60
36	1	1068	C	N3-C4-N4	-6.56	113.41	118.00
36	1	1700	G	N1-C2-N3	6.56	127.84	123.90
36	1	2237	C	O5'-P-OP1	6.56	118.58	110.70
36	1	2695	A	O4'-C1'-N9	6.56	113.45	108.20
44	L7	129	LEU	CA-CB-CG	-6.56	100.20	115.30
80	6	481	A	C6-C5-N7	6.56	136.90	132.30
80	6	1342	C	C5-C6-N1	6.56	124.28	121.00
85	5	619	A	N9-C4-C5	-6.56	103.17	105.80
85	5	1851	G	O4'-C1'-N9	-6.56	102.95	108.20
85	5	2607	G	C8-N9-C4	6.56	109.03	106.40
85	5	3097	C	C2-N3-C4	6.56	123.18	119.90
85	5	3376	A	C2-N3-C4	-6.56	107.32	110.60
53	m7	3	ARG	NE-CZ-NH2	-6.56	117.02	120.30
1	2	274	G	N1-C6-O6	-6.56	115.96	119.90
1	2	1426	U	C5-C4-O4	6.56	129.84	125.90
36	1	512	U	C6-N1-C2	-6.56	117.06	121.00
36	1	694	C	O5'-P-OP1	-6.56	99.79	105.70
36	1	1226	G	N1-C2-N2	6.56	122.11	116.20
36	1	1483	G	C5-N7-C8	6.56	107.58	104.30
36	1	1725	C	C2-N3-C4	-6.56	116.62	119.90
36	1	2122	G	C5-C6-N1	6.56	114.78	111.50
80	6	20	G	C5-C6-N1	-6.56	108.22	111.50
80	6	190	C	C2-N3-C4	6.56	123.18	119.90
80	6	343	C	N3-C4-C5	-6.56	119.28	121.90
80	6	587	C	O5'-P-OP2	-6.56	99.79	105.70
80	6	1572	G	N1-C6-O6	6.56	123.84	119.90
85	5	666	A	C5-C6-N6	6.56	128.95	123.70
85	5	1887	A	OP2-P-O3'	6.56	119.64	105.20
85	5	2430	A	N1-C2-N3	6.56	132.58	129.30
68	o2	105	ARG	NE-CZ-NH1	-6.56	117.02	120.30
36	1	908	G	C8-N9-C1'	-6.56	118.47	127.00
36	1	2301	U	N3-C2-O2	-6.56	117.61	122.20
85	5	2283	G	O5'-P-OP2	-6.56	99.80	105.70
85	5	2893	C	N3-C4-N4	6.56	122.59	118.00
38	8	3	A	C8-N9-C4	-6.56	103.18	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	90	C	N1-C2-N3	6.56	123.79	119.20
1	2	1572	C	N1-C2-O2	6.56	122.84	118.90
36	1	49	A	OP1-P-OP2	-6.56	109.76	119.60
36	1	384	A	C6-N1-C2	-6.56	114.67	118.60
36	1	397	A	N7-C8-N9	-6.56	110.52	113.80
36	1	779	G	N1-C6-O6	6.56	123.84	119.90
36	1	805	G	N1-C6-O6	-6.56	115.97	119.90
36	1	1305	U	N1-C2-O2	-6.56	118.21	122.80
36	1	3328	G	N1-C6-O6	-6.56	115.96	119.90
37	3	65	G	N1-C2-N3	6.56	127.83	123.90
38	4	87	G	C6-C5-N7	6.56	134.34	130.40
80	6	78	A	N7-C8-N9	-6.56	110.52	113.80
85	5	41	G	N3-C4-C5	6.56	131.88	128.60
85	5	1213	G	N1-C2-N3	6.56	127.84	123.90
85	5	2907	G	OP1-P-OP2	-6.56	109.76	119.60
85	5	3108	G	C5-C6-N1	-6.56	108.22	111.50
44	17	232	ARG	NE-CZ-NH1	-6.56	117.02	120.30
1	2	1008	A	C5-N7-C8	-6.56	100.62	103.90
1	2	1325	C	N3-C4-C5	-6.56	119.28	121.90
1	2	1619	C	N3-C4-N4	6.56	122.59	118.00
36	1	728	G	O5'-P-OP1	6.56	118.57	110.70
36	1	1813	A	C5-N7-C8	6.56	107.18	103.90
36	1	1883	A	C5-C6-N1	6.56	120.98	117.70
36	1	3142	A	N1-C6-N6	-6.56	114.67	118.60
37	3	37	G	N1-C6-O6	6.56	123.83	119.90
38	4	57	C	N3-C4-C5	6.56	124.52	121.90
53	M7	131	ARG	NE-CZ-NH1	-6.56	117.02	120.30
80	6	319	U	OP1-P-OP2	6.56	129.44	119.60
80	6	617	U	C6-N1-C2	-6.56	117.06	121.00
80	6	1719	A	C8-N9-C4	-6.56	103.18	105.80
85	5	286	U	C6-N1-C2	-6.56	117.06	121.00
85	5	1442	U	C5-C4-O4	6.56	129.84	125.90
85	5	2620	G	N3-C4-C5	6.56	131.88	128.60
85	5	2803	A	O5'-P-OP2	-6.56	99.80	105.70
85	5	3024	A	O5'-P-OP2	6.56	118.57	110.70
85	5	3272	C	N3-C2-O2	6.56	126.49	121.90
37	7	27	A	OP1-P-O3'	6.56	119.63	105.20
37	7	93	C	O5'-P-OP1	6.56	118.57	110.70
1	2	363	G	OP1-P-O3'	6.56	119.62	105.20
36	1	684	G	N1-C2-N3	-6.56	119.97	123.90
36	1	968	G	N3-C2-N2	6.56	124.49	119.90
80	6	616	G	N3-C4-C5	-6.56	125.32	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	511	G	C2-N3-C4	-6.56	108.62	111.90
85	5	2105	G	C2-N3-C4	-6.56	108.62	111.90
1	2	1775	G	N1-C2-N3	6.55	127.83	123.90
36	1	792	G	N7-C8-N9	6.55	116.38	113.10
36	1	1075	A	C2-N3-C4	6.55	113.88	110.60
36	1	1292	C	N3-C4-N4	6.55	122.59	118.00
36	1	1450	G	C6-N1-C2	-6.55	121.17	125.10
36	1	3293	U	N1-C2-N3	-6.55	110.97	114.90
37	3	27	A	N1-C6-N6	6.55	122.53	118.60
85	5	80	G	N7-C8-N9	6.55	116.38	113.10
85	5	288	C	N1-C2-O2	-6.55	114.97	118.90
85	5	733	G	C8-N9-C4	-6.55	103.78	106.40
85	5	1049	C	C4-C5-C6	6.55	120.68	117.40
85	5	2248	C	C4-C5-C6	6.55	120.68	117.40
85	5	2419	A	C2-N3-C4	-6.55	107.32	110.60
85	5	3372	A	C4-C5-N7	-6.55	107.42	110.70
1	2	63	G	O5'-P-OP2	6.55	118.56	110.70
36	1	96	G	OP2-P-O3'	6.55	119.62	105.20
36	1	623	U	O5'-P-OP2	6.55	118.56	110.70
36	1	1224	C	N1-C2-O2	6.55	122.83	118.90
36	1	1337	A	N1-C2-N3	6.55	132.58	129.30
38	4	115	C	N3-C4-N4	-6.55	113.41	118.00
80	6	314	C	N1-C2-N3	6.55	123.79	119.20
80	6	1164	G	C5-N7-C8	-6.55	101.02	104.30
80	6	1657	U	OP1-P-OP2	-6.55	109.77	119.60
80	6	1765	A	C6-N1-C2	-6.55	114.67	118.60
85	5	769	G	N1-C6-O6	6.55	123.83	119.90
85	5	923	C	C2-N1-C1'	6.55	126.01	118.80
36	1	611	A	N1-C2-N3	6.55	132.58	129.30
36	1	845	G	C5-C6-N1	-6.55	108.22	111.50
36	1	976	U	C4-C5-C6	-6.55	115.77	119.70
36	1	992	A	N9-C4-C5	6.55	108.42	105.80
36	1	1452	A	C4-C5-N7	6.55	113.97	110.70
36	1	2273	G	N3-C4-C5	6.55	131.88	128.60
36	1	3247	G	C2-N3-C4	-6.55	108.62	111.90
80	6	786	C	C5-C6-N1	6.55	124.28	121.00
85	5	1054	A	C5-C6-N6	6.55	128.94	123.70
85	5	1514	G	O5'-P-OP1	6.55	118.56	110.70
85	5	2140	U	OP2-P-O3'	6.55	119.61	105.20
85	5	2719	U	N3-C4-O4	-6.55	114.81	119.40
1	2	424	C	C2-N3-C4	6.55	123.17	119.90
1	2	799	G	C8-N9-C4	-6.55	103.78	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	943	U	N1-C2-N3	6.55	118.83	114.90
1	2	1226	G	C5-C6-N1	6.55	114.78	111.50
36	1	20	A	C6-N1-C2	-6.55	114.67	118.60
36	1	428	A	C6-N1-C2	-6.55	114.67	118.60
36	1	1213	G	N3-C4-N9	6.55	129.93	126.00
36	1	2278	C	C2-N3-C4	6.55	123.17	119.90
36	1	2311	G	N1-C6-O6	-6.55	115.97	119.90
36	1	2328	U	N3-C4-O4	-6.55	114.81	119.40
36	1	2390	A	OP2-P-O3'	6.55	119.61	105.20
36	1	3330	A	N1-C6-N6	-6.55	114.67	118.60
80	6	694	U	N1-C2-O2	6.55	127.39	122.80
80	6	1008	G	C5-C6-N1	-6.55	108.22	111.50
80	6	1478	G	C5-C6-N1	-6.55	108.22	111.50
80	6	1629	G	C5-C6-N1	-6.55	108.23	111.50
85	5	230	U	C2-N3-C4	-6.55	123.07	127.00
85	5	1300	G	C5-C6-O6	-6.55	124.67	128.60
85	5	1336	U	N3-C4-C5	6.55	118.53	114.60
85	5	1379	G	C4-C5-N7	6.55	113.42	110.80
85	5	2658	G	N1-C2-N3	6.55	127.83	123.90
85	5	2807	U	OP1-P-OP2	-6.55	109.78	119.60
85	5	2830	G	OP2-P-O3'	6.55	119.61	105.20
85	5	2897	A	C5-C6-N1	6.55	120.97	117.70
85	5	3157	U	N3-C2-O2	-6.55	117.61	122.20
37	7	93	C	C5-C4-N4	-6.55	115.62	120.20
1	2	1575	A	N9-C4-C5	6.55	108.42	105.80
36	1	651	G	N3-C4-N9	6.55	129.93	126.00
36	1	3327	G	N1-C6-O6	6.55	123.83	119.90
80	6	91	G	O5'-P-OP1	6.55	118.56	110.70
80	6	965	U	C5-C4-O4	6.55	129.83	125.90
80	6	1668	G	C5-C6-N1	6.55	114.77	111.50
85	5	11	A	N1-C6-N6	-6.55	114.67	118.60
85	5	64	G	C5-N7-C8	-6.55	101.03	104.30
85	5	1712	G	C5-N7-C8	-6.55	101.03	104.30
38	8	52	A	OP1-P-OP2	6.55	129.42	119.60
1	2	1637	G	N1-C2-N3	6.55	127.83	123.90
36	1	294	U	C5-C6-N1	6.55	125.97	122.70
36	1	1170	A	N7-C8-N9	-6.55	110.53	113.80
36	1	1599	G	C2-N3-C4	-6.55	108.63	111.90
36	1	2793	G	O5'-P-OP1	-6.55	99.81	105.70
36	1	3244	A	N1-C2-N3	6.55	132.57	129.30
37	3	66	A	OP1-P-OP2	6.55	129.42	119.60
80	6	274	G	O5'-P-OP1	6.55	118.56	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	294	C	O5'-P-OP2	-6.55	99.81	105.70
85	5	112	U	O4'-C1'-N1	6.55	113.44	108.20
85	5	331	G	C5-C6-N1	6.55	114.77	111.50
85	5	831	G	C5-C6-O6	-6.55	124.67	128.60
85	5	910	G	C6-N1-C2	6.55	129.03	125.10
85	5	1167	U	C5-C6-N1	-6.55	119.43	122.70
85	5	1422	G	OP1-P-OP2	6.55	129.42	119.60
85	5	1619	A	O5'-P-OP1	6.55	118.56	110.70
85	5	2584	G	C5-C6-N1	6.55	114.77	111.50
85	5	2636	A	C5-C6-N1	6.55	120.97	117.70
85	5	2800	G	C2-N3-C4	6.55	115.17	111.90
85	5	3033	A	O5'-P-OP1	6.55	118.56	110.70
85	5	3221	C	O5'-P-OP1	6.55	118.56	110.70
85	5	3269	U	P-O3'-C3'	6.55	127.56	119.70
38	8	14	C	OP2-P-O3'	6.55	119.60	105.20
38	8	86	U	C5-C6-N1	6.55	125.97	122.70
1	2	103	A	C5-C6-N1	-6.54	114.43	117.70
1	2	720	A	N9-C4-C5	-6.54	103.18	105.80
36	1	224	C	N1-C2-N3	-6.54	114.62	119.20
36	1	555	U	C2-N3-C4	-6.54	123.07	127.00
36	1	2105	G	C6-C5-N7	-6.54	126.47	130.40
36	1	2418	G	O5'-P-OP1	6.54	118.55	110.70
36	1	2972	G	C6-C5-N7	-6.54	126.47	130.40
36	1	3326	G	N9-C4-C5	-6.54	102.78	105.40
80	6	1042	G	N9-C4-C5	6.54	108.02	105.40
85	5	362	U	OP1-P-O3'	6.54	119.60	105.20
1	2	30	G	C6-C5-N7	-6.54	126.47	130.40
1	2	1183	G	C8-N9-C4	-6.54	103.78	106.40
1	2	1531	G	C8-N9-C4	-6.54	103.78	106.40
1	2	1534	U	N3-C4-O4	6.54	123.98	119.40
36	1	1054	A	C4-C5-N7	-6.54	107.43	110.70
36	1	2118	C	C5-C4-N4	6.54	124.78	120.20
36	1	3209	A	C5-C6-N6	-6.54	118.47	123.70
36	1	3374	U	N1-C2-N3	-6.54	110.97	114.90
71	O5	79	ASP	CB-CG-OD1	-6.54	112.41	118.30
80	6	93	A	C4-C5-N7	-6.54	107.43	110.70
80	6	608	U	N1-C2-N3	6.54	118.83	114.90
80	6	1071	U	N1-C2-O2	-6.54	118.22	122.80
80	6	1729	C	C6-N1-C2	6.54	122.92	120.30
85	5	503	C	C6-N1-C2	6.54	122.92	120.30
85	5	1151	U	C5-C6-N1	6.54	125.97	122.70
85	5	1184	A	N9-C4-C5	6.54	108.42	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1814	A	C5-C6-N6	6.54	128.94	123.70
85	5	2743	A	N7-C8-N9	-6.54	110.53	113.80
78	q2	97	LYS	CD-CE-NZ	-6.54	96.65	111.70
1	2	77	U	N1-C2-N3	-6.54	110.97	114.90
1	2	121	U	N1-C2-N3	6.54	118.83	114.90
1	2	1079	C	N3-C4-N4	6.54	122.58	118.00
1	2	1643	A	C4-C5-C6	-6.54	113.73	117.00
36	1	495	G	OP2-P-O3'	6.54	119.59	105.20
36	1	704	U	N3-C2-O2	6.54	126.78	122.20
36	1	948	C	O5'-P-OP2	-6.54	99.81	105.70
36	1	1379	G	C4-N9-C1'	6.54	135.00	126.50
36	1	2121	G	N7-C8-N9	-6.54	109.83	113.10
36	1	3221	C	N3-C2-O2	6.54	126.48	121.90
62	N6	53	ASP	CB-CG-OD1	-6.54	112.41	118.30
85	5	274	G	C4-C5-C6	6.54	122.72	118.80
85	5	965	A	C5-C6-N6	-6.54	118.47	123.70
85	5	1635	G	N3-C4-C5	6.54	131.87	128.60
85	5	1828	A	C5-C6-N6	6.54	128.93	123.70
85	5	1881	A	N3-C4-C5	-6.54	122.22	126.80
85	5	2256	A	C6-N1-C2	6.54	122.53	118.60
85	5	3129	A	OP1-P-O3'	6.54	119.59	105.20
37	7	75	G	N1-C2-N2	6.54	122.09	116.20
36	1	1336	U	N3-C2-O2	-6.54	117.62	122.20
80	6	457	G	N1-C2-N2	-6.54	110.31	116.20
80	6	983	A	C6-N1-C2	-6.54	114.68	118.60
80	6	1164	G	C8-N9-C4	6.54	109.02	106.40
85	5	1621	A	C8-N9-C4	6.54	108.42	105.80
85	5	2591	A	N9-C4-C5	-6.54	103.18	105.80
1	2	448	C	C4-C5-C6	6.54	120.67	117.40
36	1	184	U	C6-N1-C2	6.54	124.92	121.00
36	1	852	U	OP2-P-O3'	6.54	119.58	105.20
36	1	1431	G	C6-N1-C2	-6.54	121.18	125.10
36	1	2385	G	N9-C4-C5	6.54	108.02	105.40
36	1	2391	G	C2-N3-C4	-6.54	108.63	111.90
36	1	2667	A	N3-C4-C5	6.54	131.38	126.80
36	1	2782	U	N3-C2-O2	6.54	126.78	122.20
36	1	3215	A	N1-C2-N3	6.54	132.57	129.30
38	4	18	U	N1-C2-N3	6.54	118.82	114.90
80	6	509	G	C5-C6-N1	-6.54	108.23	111.50
80	6	1747	G	N9-C4-C5	-6.54	102.78	105.40
85	5	247	C	C2-N3-C4	6.54	123.17	119.90
85	5	1175	C	N1-C2-N3	-6.54	114.62	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1467	A	C4-C5-N7	-6.54	107.43	110.70
85	5	1663	C	O5'-P-OP2	-6.54	99.82	105.70
85	5	1808	G	O5'-P-OP1	6.54	118.55	110.70
85	5	2356	A	OP1-P-O3'	6.54	119.59	105.20
36	1	887	G	C2-N3-C4	6.54	115.17	111.90
36	1	1229	G	C5-C6-O6	-6.54	124.68	128.60
36	1	1381	A	C5-C6-N1	-6.54	114.43	117.70
36	1	1872	C	C5-C6-N1	-6.54	117.73	121.00
36	1	2703	A	O5'-P-OP1	6.54	118.55	110.70
85	5	101	G	C6-N1-C2	-6.54	121.18	125.10
85	5	883	A	C5-C6-N1	-6.54	114.43	117.70
85	5	1292	C	N3-C4-N4	6.54	122.58	118.00
85	5	1913	A	O5'-P-OP2	6.54	118.55	110.70
85	5	2443	A	C8-N9-C4	6.54	108.42	105.80
85	5	3303	G	C4-N9-C1'	-6.54	118.00	126.50
36	1	22	G	N1-C2-N3	6.54	127.82	123.90
36	1	1552	G	N3-C2-N2	-6.54	115.33	119.90
36	1	1640	G	N3-C4-C5	-6.54	125.33	128.60
36	1	1772	U	N3-C2-O2	-6.54	117.63	122.20
36	1	1919	G	C4-C5-C6	6.54	122.72	118.80
36	1	2326	A	C4-C5-C6	-6.54	113.73	117.00
36	1	2729	U	N3-C4-C5	-6.54	110.68	114.60
36	1	3091	A	C4-C5-C6	6.54	120.27	117.00
36	1	3154	C	C6-N1-C2	-6.54	117.69	120.30
36	1	3258	U	N3-C4-C5	-6.54	110.68	114.60
36	1	3324	C	N3-C2-O2	6.54	126.47	121.90
38	4	155	A	OP1-P-OP2	6.54	129.40	119.60
80	6	897	C	N1-C2-O2	-6.54	114.98	118.90
80	6	1502	G	C8-N9-C4	-6.54	103.78	106.40
85	5	391	A	C4-C5-N7	-6.54	107.43	110.70
85	5	568	G	C2-N3-C4	-6.54	108.63	111.90
85	5	605	U	N1-C2-N3	6.54	118.82	114.90
85	5	740	G	C5-C6-O6	-6.54	124.68	128.60
85	5	949	C	N1-C2-O2	6.54	122.82	118.90
85	5	1538	G	C8-N9-C4	-6.54	103.79	106.40
85	5	1674	G	C8-N9-C4	-6.54	103.79	106.40
1	2	580	A	N7-C8-N9	6.53	117.07	113.80
36	1	279	U	O5'-P-OP2	-6.53	99.82	105.70
36	1	1168	U	O5'-P-OP1	6.53	118.54	110.70
36	1	1176	C	C5-C4-N4	-6.53	115.63	120.20
80	6	321	C	C2-N1-C1'	6.53	125.99	118.80
80	6	471	A	OP2-P-O3'	6.53	119.57	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1672	G	C4-N9-C1'	-6.53	118.01	126.50
85	5	1455	U	N1-C2-O2	6.53	127.37	122.80
85	5	2729	U	O5'-P-OP1	-6.53	99.82	105.70
85	5	2991	A	N9-C4-C5	6.53	108.41	105.80
37	7	100	C	C2-N3-C4	-6.53	116.63	119.90
36	1	1397	C	C4-C5-C6	6.53	120.67	117.40
36	1	1894	U	N1-C2-N3	6.53	118.82	114.90
36	1	2249	G	OP1-P-OP2	-6.53	109.80	119.60
36	1	3132	C	C5-C6-N1	-6.53	117.73	121.00
85	5	289	A	N1-C2-N3	6.53	132.57	129.30
85	5	1836	C	N3-C2-O2	6.53	126.47	121.90
85	5	2618	G	N1-C6-O6	-6.53	115.98	119.90
1	2	319	U	O5'-P-OP1	-6.53	99.82	105.70
1	2	1229	C	N3-C4-N4	-6.53	113.43	118.00
36	1	393	U	C4-C5-C6	6.53	123.62	119.70
36	1	402	A	N9-C4-C5	6.53	108.41	105.80
36	1	792	G	N3-C4-N9	-6.53	122.08	126.00
36	1	1147	G	C8-N9-C4	6.53	109.01	106.40
36	1	1200	A	N9-C4-C5	6.53	108.41	105.80
36	1	1825	G	O5'-P-OP2	-6.53	99.82	105.70
36	1	2131	A	N1-C6-N6	6.53	122.52	118.60
36	1	2713	U	C2-N3-C4	-6.53	123.08	127.00
36	1	2830	G	N7-C8-N9	6.53	116.36	113.10
36	1	3391	A	N1-C2-N3	6.53	132.57	129.30
80	6	165	G	N3-C2-N2	-6.53	115.33	119.90
80	6	1739	C	N3-C4-C5	-6.53	119.29	121.90
85	5	416	A	C5-C6-N1	-6.53	114.44	117.70
85	5	798	G	O5'-P-OP2	-6.53	99.82	105.70
85	5	1759	C	N3-C2-O2	-6.53	117.33	121.90
85	5	1874	A	C6-C5-N7	-6.53	127.73	132.30
85	5	2565	U	N3-C2-O2	-6.53	117.63	122.20
37	7	46	A	C6-N1-C2	-6.53	114.68	118.60
37	7	54	U	C6-N1-C2	-6.53	117.08	121.00
36	1	1907	C	N1-C2-O2	6.53	122.82	118.90
36	1	2239	G	C4-C5-C6	-6.53	114.88	118.80
36	1	2377	G	C5-C6-N1	6.53	114.76	111.50
80	6	688	G	C5-C6-O6	6.53	132.52	128.60
85	5	290	G	N7-C8-N9	-6.53	109.84	113.10
85	5	698	U	N3-C4-O4	6.53	123.97	119.40
85	5	905	U	N1-C2-N3	6.53	118.82	114.90
85	5	1194	G	O5'-P-OP1	6.53	118.53	110.70
85	5	2359	C	N3-C2-O2	6.53	126.47	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	51	G	N1-C2-N3	6.53	127.82	123.90
1	2	104	A	O5'-P-OP1	6.53	118.53	110.70
1	2	407	A	C6-N1-C2	-6.53	114.68	118.60
1	2	1324	A	N1-C6-N6	-6.53	114.68	118.60
36	1	87	U	C4-C5-C6	6.53	123.62	119.70
36	1	148	G	C6-C5-N7	6.53	134.32	130.40
36	1	341	G	C5-C6-N1	-6.53	108.24	111.50
36	1	2293	C	C6-N1-C2	-6.53	117.69	120.30
36	1	2520	A	O5'-P-OP1	-6.53	99.83	105.70
36	1	2634	U	C5-C4-O4	-6.53	121.98	125.90
80	6	1	U	N3-C2-O2	-6.53	117.63	122.20
85	5	1407	A	C4-C5-C6	6.53	120.26	117.00
85	5	1576	G	OP1-P-OP2	-6.53	109.81	119.60
85	5	1768	U	C5-C4-O4	-6.53	121.98	125.90
85	5	3330	A	OP2-P-O3'	6.53	119.56	105.20
51	m5	113	LEU	CB-CG-CD1	-6.53	99.90	111.00
1	2	890	A	C8-N9-C4	-6.53	103.19	105.80
1	2	1411	G	N3-C4-N9	-6.53	122.08	126.00
36	1	497	C	O5'-P-OP1	6.53	118.53	110.70
36	1	585	A	C4-C5-C6	6.53	120.26	117.00
36	1	1648	A	C4-C5-N7	-6.53	107.44	110.70
36	1	2991	A	C5-N7-C8	-6.53	100.64	103.90
36	1	3109	G	C6-C5-N7	6.53	134.31	130.40
80	6	383	G	N1-C6-O6	6.53	123.81	119.90
80	6	475	A	OP1-P-OP2	6.53	129.39	119.60
80	6	587	C	C4-C5-C6	-6.53	114.14	117.40
85	5	352	A	C5-N7-C8	-6.53	100.64	103.90
85	5	1366	A	N9-C4-C5	6.53	108.41	105.80
85	5	1371	G	OP1-P-OP2	6.53	129.39	119.60
85	5	2647	A	C4-C5-N7	6.53	113.96	110.70
85	5	2951	G	N3-C2-N2	-6.53	115.33	119.90
37	7	13	A	C2-N3-C4	6.53	113.86	110.60
1	2	4	C	N3-C2-O2	6.52	126.47	121.90
1	2	109	G	C2-N3-C4	-6.52	108.64	111.90
36	1	681	U	C5-C6-N1	-6.52	119.44	122.70
36	1	1666	G	C5-N7-C8	-6.52	101.04	104.30
36	1	2349	U	N3-C4-O4	-6.52	114.83	119.40
80	6	348	U	N3-C4-C5	-6.52	110.69	114.60
80	6	971	A	C5-C6-N1	6.52	120.96	117.70
85	5	192	C	C6-N1-C2	-6.52	117.69	120.30
85	5	561	C	N1-C2-N3	6.52	123.77	119.20
85	5	858	A	N9-C4-C5	-6.52	103.19	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2971	A	O4'-C1'-N9	6.52	113.42	108.20
85	5	3191	G	C4-C5-C6	6.52	122.71	118.80
37	7	59	U	N3-C4-O4	6.52	123.97	119.40
1	2	6	G	OP1-P-O3'	6.52	119.55	105.20
36	1	152	U	N3-C2-O2	-6.52	117.63	122.20
36	1	181	U	OP1-P-OP2	-6.52	109.82	119.60
36	1	557	A	N7-C8-N9	-6.52	110.54	113.80
36	1	677	A	N3-C4-C5	-6.52	122.23	126.80
36	1	681	U	C4-C5-C6	6.52	123.61	119.70
36	1	1098	A	C5-N7-C8	-6.52	100.64	103.90
36	1	1155	C	OP1-P-O3'	6.52	119.55	105.20
36	1	1386	A	C8-N9-C4	-6.52	103.19	105.80
36	1	2265	C	N3-C4-N4	6.52	122.57	118.00
36	1	2388	U	N1-C2-O2	-6.52	118.23	122.80
36	1	2620	G	OP1-P-OP2	-6.52	109.82	119.60
36	1	2964	G	O5'-P-OP1	-6.52	99.83	105.70
80	6	654	C	C5-C6-N1	6.52	124.26	121.00
80	6	821	U	N3-C2-O2	-6.52	117.64	122.20
85	5	40	A	C6-C5-N7	-6.52	127.73	132.30
85	5	330	G	C6-N1-C2	-6.52	121.19	125.10
85	5	391	A	C8-N9-C4	6.52	108.41	105.80
85	5	875	G	C5-C6-N1	6.52	114.76	111.50
85	5	905	U	C6-N1-C2	-6.52	117.09	121.00
85	5	1101	G	N1-C2-N3	6.52	127.81	123.90
85	5	1364	C	OP1-P-O3'	-6.52	90.85	105.20
85	5	2246	G	OP2-P-O3'	6.52	119.55	105.20
85	5	2831	G	N1-C6-O6	6.52	123.81	119.90
1	2	868	G	N3-C4-C5	6.52	131.86	128.60
1	2	1478	C	O5'-P-OP1	-6.52	99.83	105.70
36	1	76	G	C2-N3-C4	6.52	115.16	111.90
36	1	222	A	OP1-P-OP2	-6.52	109.82	119.60
36	1	1434	G	N1-C2-N2	6.52	122.07	116.20
80	6	1335	U	C5-C6-N1	-6.52	119.44	122.70
85	5	417	A	O4'-C1'-N9	-6.52	102.98	108.20
85	5	774	G	C6-C5-N7	-6.52	126.49	130.40
85	5	2192	C	C6-N1-C2	-6.52	117.69	120.30
85	5	2211	U	N1-C2-N3	6.52	118.81	114.90
85	5	2243	A	C4-C5-N7	-6.52	107.44	110.70
85	5	2292	U	C2-N1-C1'	6.52	125.53	117.70
85	5	3279	A	C8-N9-C4	-6.52	103.19	105.80
1	2	622	A	OP1-P-OP2	-6.52	109.82	119.60
1	2	1464	C	C5-C6-N1	6.52	124.26	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	94	G	C6-N1-C2	-6.52	121.19	125.10
36	1	966	U	N3-C4-O4	6.52	123.96	119.40
36	1	1292	C	C5-C4-N4	-6.52	115.64	120.20
36	1	1913	A	N3-C4-N9	6.52	132.62	127.40
36	1	2806	U	O5'-P-OP1	6.52	118.52	110.70
36	1	2929	C	O5'-P-OP1	-6.52	99.83	105.70
36	1	3101	G	C5-N7-C8	6.52	107.56	104.30
36	1	3322	A	N1-C6-N6	6.52	122.51	118.60
80	6	121	U	N3-C4-O4	-6.52	114.84	119.40
80	6	312	A	C4-C5-N7	6.52	113.96	110.70
80	6	898	A	C5-C6-N6	6.52	128.92	123.70
85	5	57	A	C6-N1-C2	6.52	122.51	118.60
85	5	68	C	O5'-P-OP1	6.52	118.52	110.70
85	5	1551	C	C5-C6-N1	-6.52	117.74	121.00
85	5	2912	G	N7-C8-N9	6.52	116.36	113.10
1	2	6	G	N1-C6-O6	-6.52	115.99	119.90
36	1	513	G	N1-C2-N3	6.52	127.81	123.90
36	1	711	A	C2-N3-C4	6.52	113.86	110.60
36	1	845	G	C5-N7-C8	6.52	107.56	104.30
36	1	2174	G	C4-C5-C6	6.52	122.71	118.80
36	1	2278	C	C5-C6-N1	6.52	124.26	121.00
36	1	2286	U	N3-C2-O2	-6.52	117.64	122.20
36	1	2427	U	O5'-P-OP1	6.52	118.52	110.70
36	1	2948	C	C6-N1-C2	6.52	122.91	120.30
37	3	87	G	N9-C4-C5	6.52	108.01	105.40
37	3	88	G	N3-C4-N9	6.52	129.91	126.00
85	5	87	U	O5'-P-OP2	-6.52	99.83	105.70
85	5	786	A	N7-C8-N9	6.52	117.06	113.80
85	5	864	G	C6-C5-N7	-6.52	126.49	130.40
85	5	2274	U	O5'-P-OP1	6.52	118.52	110.70
85	5	2610	G	C5-C6-N1	-6.52	108.24	111.50
85	5	2867	C	OP1-P-OP2	6.52	129.38	119.60
85	5	3048	A	N1-C6-N6	-6.52	114.69	118.60
38	8	140	G	N3-C4-N9	-6.52	122.09	126.00
36	1	3102	G	C4-N9-C1'	6.52	134.97	126.50
37	3	86	U	O5'-P-OP1	6.52	118.52	110.70
38	4	27	U	C2-N1-C1'	6.52	125.52	117.70
80	6	122	U	N3-C2-O2	6.52	126.76	122.20
80	6	595	G	N7-C8-N9	-6.52	109.84	113.10
80	6	1249	U	N3-C2-O2	6.52	126.76	122.20
85	5	237	G	N1-C2-N2	6.52	122.06	116.20
85	5	2708	C	N3-C4-C5	-6.52	119.29	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2807	U	N1-C2-N3	6.52	118.81	114.90
1	2	5	U	N3-C4-O4	6.51	123.96	119.40
1	2	709	C	C6-N1-C2	6.51	122.91	120.30
1	2	1614	A	N1-C2-N3	6.51	132.56	129.30
1	2	1721	U	N3-C4-C5	-6.51	110.69	114.60
36	1	149	U	N1-C2-N3	6.51	118.81	114.90
36	1	436	A	C5-C6-N6	-6.51	118.49	123.70
36	1	821	U	C5-C4-O4	6.51	129.81	125.90
36	1	884	A	N7-C8-N9	-6.51	110.54	113.80
36	1	924	G	C6-N1-C2	-6.51	121.19	125.10
36	1	948	C	OP1-P-O3'	-6.51	90.87	105.20
36	1	1730	G	N9-C4-C5	6.51	108.01	105.40
36	1	2125	A	O5'-P-OP2	-6.51	99.84	105.70
36	1	2208	A	C8-N9-C4	-6.51	103.19	105.80
36	1	3213	A	C6-N1-C2	-6.51	114.69	118.60
36	1	3342	A	C4-C5-N7	6.51	113.96	110.70
38	4	5	U	N3-C2-O2	6.51	126.76	122.20
80	6	451	A	OP1-P-OP2	-6.51	109.83	119.60
80	6	1100	G	C4-C5-N7	6.51	113.41	110.80
80	6	1761	U	C4-C5-C6	6.51	123.61	119.70
4	s2	169	LEU	CB-CG-CD2	-6.51	99.93	111.00
85	5	31	C	OP2-P-O3'	6.51	119.53	105.20
85	5	1879	A	N3-C4-C5	6.51	131.36	126.80
38	8	16	G	N1-C2-N3	6.51	127.81	123.90
36	1	43	A	N1-C6-N6	6.51	122.51	118.60
36	1	1343	A	N9-C4-C5	-6.51	103.19	105.80
36	1	1589	A	C5-C6-N6	6.51	128.91	123.70
36	1	1856	C	C5-C4-N4	-6.51	115.64	120.20
36	1	2773	C	OP1-P-OP2	6.51	129.37	119.60
80	6	94	U	N3-C4-O4	-6.51	114.84	119.40
80	6	784	C	N3-C4-N4	6.51	122.56	118.00
85	5	2636	A	N9-C4-C5	6.51	108.41	105.80
85	5	3126	C	C6-N1-C2	-6.51	117.69	120.30
1	2	320	U	N3-C2-O2	6.51	126.76	122.20
36	1	52	A	P-O3'-C3'	-6.51	111.89	119.70
36	1	406	G	C5-N7-C8	-6.51	101.04	104.30
36	1	817	A	C4-C5-C6	-6.51	113.75	117.00
36	1	1412	G	C4-C5-C6	6.51	122.71	118.80
36	1	1450	G	OP1-P-OP2	-6.51	109.83	119.60
37	3	51	A	C2-N3-C4	6.51	113.86	110.60
60	N4	25	ASP	CB-CG-OD1	6.51	124.16	118.30
85	5	845	G	C6-N1-C2	-6.51	121.19	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1129	A	C2-N3-C4	-6.51	107.34	110.60
85	5	2623	G	N3-C4-N9	6.51	129.91	126.00
85	5	2640	A	C5-N7-C8	-6.51	100.64	103.90
37	7	121	U	N3-C4-O4	6.51	123.96	119.40
1	2	347	G	C6-C5-N7	-6.51	126.49	130.40
1	2	395	U	OP1-P-OP2	6.51	129.36	119.60
36	1	265	A	OP1-P-OP2	-6.51	109.83	119.60
36	1	1139	G	C4-C5-C6	6.51	122.70	118.80
36	1	1207	G	C2-N3-C4	-6.51	108.65	111.90
36	1	1905	G	P-O3'-C3'	6.51	127.51	119.70
36	1	2773	C	C2-N3-C4	-6.51	116.65	119.90
36	1	2778	G	C6-C5-N7	-6.51	126.49	130.40
80	6	897	C	C5-C6-N1	-6.51	117.75	121.00
80	6	1715	G	C2-N3-C4	6.51	115.16	111.90
80	6	1745	G	O5'-P-OP2	-6.51	99.84	105.70
85	5	760	G	N3-C4-C5	6.51	131.85	128.60
85	5	1041	U	N1-C2-O2	-6.51	118.24	122.80
85	5	2152	A	C2-N3-C4	-6.51	107.34	110.60
85	5	2812	C	N1-C2-O2	-6.51	115.00	118.90
85	5	2852	C	N3-C4-N4	-6.51	113.44	118.00
85	5	2998	U	C6-N1-C2	6.51	124.91	121.00
37	7	93	C	C2-N3-C4	-6.51	116.65	119.90
36	1	48	A	OP2-P-O3'	6.51	119.52	105.20
36	1	2290	C	C5-C6-N1	-6.51	117.75	121.00
36	1	2929	C	N1-C2-N3	6.51	123.76	119.20
36	1	3001	C	N1-C2-O2	-6.51	115.00	118.90
36	1	3017	A	C2-N3-C4	-6.51	107.35	110.60
80	6	57	G	O5'-P-OP2	-6.51	99.84	105.70
80	6	421	A	C5-C6-N6	-6.51	118.49	123.70
85	5	607	A	C5-C6-N1	-6.51	114.45	117.70
85	5	610	G	N3-C4-C5	-6.51	125.35	128.60
85	5	1904	C	C5-C6-N1	-6.51	117.75	121.00
85	5	2249	G	N3-C4-C5	-6.51	125.35	128.60
85	5	2703	A	C6-C5-N7	-6.51	127.74	132.30
1	2	93	A	C4-C5-C6	6.51	120.25	117.00
36	1	221	A	N1-C6-N6	-6.51	114.70	118.60
36	1	300	G	C2-N3-C4	-6.51	108.65	111.90
36	1	973	A	N1-C6-N6	-6.51	114.70	118.60
36	1	1107	C	C5-C6-N1	-6.51	117.75	121.00
36	1	1130	A	O5'-P-OP1	-6.51	99.84	105.70
36	1	1152	G	N1-C2-N3	6.51	127.80	123.90
36	1	1169	A	C4-C5-N7	-6.51	107.45	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2624	G	C5-C6-O6	-6.51	124.70	128.60
36	1	2687	G	OP1-P-OP2	6.51	129.36	119.60
36	1	3053	G	C5-C6-O6	6.51	132.50	128.60
36	1	3242	G	O5'-P-OP2	-6.51	99.84	105.70
36	1	3243	A	N9-C4-C5	6.51	108.40	105.80
38	4	49	G	C6-N1-C2	-6.51	121.20	125.10
80	6	418	G	C5-C6-N1	6.51	114.75	111.50
80	6	816	G	C4-C5-N7	6.51	113.40	110.80
80	6	1335	U	C5-C4-O4	6.51	129.80	125.90
80	6	1614	A	N9-C4-C5	-6.51	103.20	105.80
85	5	74	G	O5'-P-OP1	-6.51	99.84	105.70
85	5	686	G	N1-C6-O6	6.51	123.80	119.90
85	5	1197	A	OP1-P-OP2	-6.51	109.84	119.60
85	5	1926	C	OP1-P-OP2	6.51	129.36	119.60
85	5	2628	A	N3-C4-N9	-6.51	122.19	127.40
85	5	2675	C	N3-C4-C5	-6.51	119.30	121.90
85	5	2801	A	C5-C6-N6	-6.51	118.49	123.70
85	5	3279	A	C4-C5-N7	-6.51	107.45	110.70
40	l3	193	ASP	CB-CG-OD1	-6.51	112.44	118.30
66	o0	41	LEU	CA-CB-CG	6.51	130.26	115.30
1	2	164	A	N7-C8-N9	-6.50	110.55	113.80
36	1	761	A	N7-C8-N9	6.50	117.05	113.80
36	1	3358	U	N1-C2-O2	6.50	127.35	122.80
85	5	364	G	OP2-P-O3'	6.50	119.51	105.20
85	5	1487	G	C4-C5-N7	-6.50	108.20	110.80
85	5	1688	U	O4'-C1'-N1	6.50	113.40	108.20
85	5	3173	G	N1-C6-O6	-6.50	116.00	119.90
1	2	886	U	C2-N3-C4	6.50	130.90	127.00
36	1	395	A	N1-C6-N6	-6.50	114.70	118.60
36	1	606	C	C6-N1-C2	6.50	122.90	120.30
36	1	703	G	N1-C2-N3	6.50	127.80	123.90
36	1	1371	G	C4-C5-C6	6.50	122.70	118.80
36	1	2374	C	C6-N1-C2	-6.50	117.70	120.30
36	1	2905	U	N3-C2-O2	6.50	126.75	122.20
80	6	438	A	C6-N1-C2	-6.50	114.70	118.60
80	6	715	U	N3-C2-O2	-6.50	117.65	122.20
85	5	584	G	N1-C2-N3	6.50	127.80	123.90
85	5	1158	A	OP1-P-O3'	6.50	119.51	105.20
85	5	1345	G	N1-C2-N3	6.50	127.80	123.90
85	5	1898	G	C5-C6-N1	-6.50	108.25	111.50
85	5	3260	G	OP1-P-OP2	6.50	129.36	119.60
85	5	3382	U	C6-N1-C2	-6.50	117.10	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	103	G	C6-N1-C2	-6.50	121.20	125.10
36	1	1284	C	N3-C4-C5	-6.50	119.30	121.90
36	1	1507	G	OP2-P-O3'	6.50	119.50	105.20
36	1	1694	U	N3-C4-C5	6.50	118.50	114.60
36	1	2561	A	C4-C5-C6	-6.50	113.75	117.00
36	1	3041	U	N3-C2-O2	6.50	126.75	122.20
36	1	3288	G	C5-C6-O6	-6.50	124.70	128.60
38	4	112	U	N1-C2-N3	6.50	118.80	114.90
80	6	607	G	OP1-P-OP2	-6.50	109.85	119.60
80	6	628	G	C6-N1-C2	-6.50	121.20	125.10
80	6	1729	C	C4-C5-C6	6.50	120.65	117.40
85	5	98	G	N1-C6-O6	-6.50	116.00	119.90
85	5	786	A	N1-C2-N3	6.50	132.55	129.30
85	5	868	C	OP1-P-OP2	-6.50	109.85	119.60
85	5	925	A	C8-N9-C4	6.50	108.40	105.80
85	5	1103	A	C5-C6-N1	6.50	120.95	117.70
85	5	3031	G	N1-C2-N2	6.50	122.05	116.20
37	7	81	U	N3-C2-O2	-6.50	117.65	122.20
36	1	183	G	C5-C6-N1	6.50	114.75	111.50
36	1	887	G	N7-C8-N9	-6.50	109.85	113.10
36	1	2425	G	N1-C2-N2	-6.50	110.35	116.20
36	1	2943	G	C4-N9-C1'	6.50	134.95	126.50
85	5	2968	G	N7-C8-N9	-6.50	109.85	113.10
1	2	155	U	N1-C2-N3	-6.50	111.00	114.90
1	2	1123	G	OP1-P-O3'	6.50	119.50	105.20
36	1	117	U	C5-C6-N1	-6.50	119.45	122.70
36	1	434	U	C2-N3-C4	-6.50	123.10	127.00
36	1	517	G	N7-C8-N9	6.50	116.35	113.10
36	1	557	A	C6-C5-N7	6.50	136.85	132.30
36	1	636	C	C4-C5-C6	6.50	120.65	117.40
36	1	778	U	C4-C5-C6	6.50	123.60	119.70
36	1	1623	G	C6-N1-C2	-6.50	121.20	125.10
36	1	1797	A	N9-C4-C5	-6.50	103.20	105.80
36	1	2658	G	O4'-C1'-N9	-6.50	103.00	108.20
80	6	282	C	N3-C2-O2	6.50	126.45	121.90
85	5	56	G	C4-C5-N7	6.50	113.40	110.80
85	5	975	C	C5-C6-N1	6.50	124.25	121.00
85	5	1447	G	C8-N9-C4	6.50	109.00	106.40
85	5	2326	A	C6-C5-N7	6.50	136.85	132.30
85	5	2610	G	O5'-P-OP2	-6.50	99.85	105.70
36	1	537	A	C6-N1-C2	-6.50	114.70	118.60
36	1	2811	A	C4-C5-C6	6.50	120.25	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3334	U	N3-C2-O2	-6.50	117.65	122.20
37	3	34	C	C2-N3-C4	-6.50	116.65	119.90
80	6	415	C	C5-C6-N1	6.50	124.25	121.00
80	6	768	C	C2-N3-C4	-6.50	116.65	119.90
85	5	69	C	N3-C4-C5	-6.50	119.30	121.90
85	5	211	A	N1-C6-N6	-6.50	114.70	118.60
85	5	1140	G	N1-C6-O6	-6.50	116.00	119.90
85	5	1508	C	N3-C2-O2	-6.50	117.35	121.90
85	5	2519	A	C2-N3-C4	-6.50	107.35	110.60
85	5	2993	G	N3-C4-C5	-6.50	125.35	128.60
37	7	16	U	C4-C5-C6	6.50	123.60	119.70
38	8	70	G	C6-N1-C2	-6.50	121.20	125.10
1	2	634	G	C2-N3-C4	-6.50	108.65	111.90
36	1	380	U	OP1-P-OP2	-6.50	109.86	119.60
36	1	1194	G	N9-C4-C5	6.50	108.00	105.40
85	5	356	C	C5-C6-N1	-6.50	117.75	121.00
85	5	1672	U	N1-C2-O2	-6.50	118.25	122.80
85	5	2329	C	C5-C6-N1	-6.50	117.75	121.00
85	5	2723	U	N1-C2-O2	-6.50	118.25	122.80
37	7	9	C	C5-C6-N1	-6.50	117.75	121.00
1	2	6	G	N1-C2-N2	-6.49	110.36	116.20
1	2	1162	G	O5'-P-OP1	6.49	118.49	110.70
1	2	1246	G	C5-C6-N1	-6.49	108.25	111.50
36	1	119	U	N3-C2-O2	-6.49	117.66	122.20
36	1	2292	U	C6-N1-C2	-6.49	117.10	121.00
36	1	2395	G	C5-C6-O6	-6.49	124.70	128.60
36	1	2409	G	N9-C4-C5	6.49	108.00	105.40
38	4	18	U	C6-N1-C2	-6.49	117.10	121.00
80	6	1348	A	C4-C5-N7	6.49	113.95	110.70
85	5	101	G	N1-C2-N3	6.49	127.80	123.90
85	5	113	C	N3-C4-C5	6.49	124.50	121.90
85	5	150	A	C5-C6-N6	-6.49	118.51	123.70
85	5	678	G	O5'-P-OP1	-6.49	99.86	105.70
85	5	1016	C	N1-C2-N3	-6.49	114.65	119.20
85	5	1291	A	N7-C8-N9	-6.49	110.55	113.80
85	5	1355	A	N1-C6-N6	6.49	122.50	118.60
85	5	1449	A	O5'-P-OP1	6.49	118.49	110.70
85	5	1528	G	N1-C2-N2	-6.49	110.36	116.20
85	5	2194	G	N1-C2-N2	-6.49	110.36	116.20
85	5	2840	C	O5'-P-OP1	-6.49	99.86	105.70
85	5	3025	C	N1-C2-N3	6.49	123.75	119.20
1	2	1267	C	C6-N1-C2	6.49	122.90	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1113	G	N7-C8-N9	6.49	116.35	113.10
36	1	1341	U	OP1-P-O3'	-6.49	90.92	105.20
36	1	2397	A	N3-C4-C5	6.49	131.34	126.80
37	3	5	G	C5-N7-C8	6.49	107.55	104.30
38	4	105	A	C8-N9-C4	-6.49	103.20	105.80
80	6	1009	U	N1-C2-O2	-6.49	118.26	122.80
80	6	1180	C	C5-C6-N1	6.49	124.25	121.00
85	5	495	G	OP2-P-O3'	6.49	119.48	105.20
85	5	3240	C	C5-C4-N4	-6.49	115.66	120.20
38	8	58	G	O5'-P-OP2	6.49	118.49	110.70
43	16	77	ARG	NE-CZ-NH1	6.49	123.55	120.30
55	m9	20	ARG	NE-CZ-NH2	-6.49	117.05	120.30
36	1	809	G	O5'-P-OP2	-6.49	99.86	105.70
36	1	1002	A	C2-N3-C4	-6.49	107.36	110.60
36	1	1256	G	N1-C6-O6	6.49	123.79	119.90
36	1	1316	C	O5'-P-OP2	-6.49	99.86	105.70
36	1	1847	A	C4-C5-N7	-6.49	107.45	110.70
36	1	2965	U	N1-C2-N3	6.49	118.80	114.90
80	6	1549	C	N3-C4-N4	6.49	122.54	118.00
85	5	976	U	N1-C2-N3	6.49	118.80	114.90
85	5	1080	A	N1-C6-N6	6.49	122.49	118.60
85	5	1143	A	N1-C6-N6	6.49	122.49	118.60
85	5	1441	G	C8-N9-C1'	6.49	135.44	127.00
85	5	1612	A	N1-C6-N6	6.49	122.49	118.60
85	5	1679	A	O5'-P-OP2	6.49	118.49	110.70
85	5	1757	A	C6-N1-C2	-6.49	114.71	118.60
85	5	2419	A	N7-C8-N9	6.49	117.05	113.80
85	5	3059	G	N1-C2-N2	-6.49	110.36	116.20
85	5	3099	C	O5'-P-OP2	-6.49	99.86	105.70
85	5	3347	A	N9-C4-C5	-6.49	103.20	105.80
37	7	116	C	N3-C4-C5	-6.49	119.30	121.90
38	8	97	A	C4-C5-N7	-6.49	107.45	110.70
1	2	528	U	C5-C6-N1	-6.49	119.46	122.70
1	2	1225	A	N9-C4-C5	6.49	108.40	105.80
36	1	15	C	O5'-P-OP1	6.49	118.49	110.70
36	1	16	A	C2-N3-C4	-6.49	107.36	110.60
36	1	2602	G	N1-C2-N2	-6.49	110.36	116.20
36	1	2847	A	C6-N1-C2	-6.49	114.71	118.60
80	6	539	G	C5-N7-C8	-6.49	101.06	104.30
80	6	1682	U	N3-C2-O2	6.49	126.74	122.20
80	6	1727	G	C5-N7-C8	6.49	107.54	104.30
85	5	9	U	C2-N1-C1'	-6.49	109.91	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	51	A	O5'-P-OP2	6.49	118.49	110.70
85	5	391	A	C6-C5-N7	6.49	136.84	132.30
85	5	843	A	C2-N3-C4	-6.49	107.36	110.60
85	5	941	G	N3-C4-C5	-6.49	125.36	128.60
85	5	970	A	N1-C2-N3	6.49	132.54	129.30
85	5	1898	G	C5-N7-C8	6.49	107.55	104.30
85	5	2777	G	C2-N3-C4	-6.49	108.66	111.90
85	5	3030	G	N3-C2-N2	-6.49	115.36	119.90
85	5	3216	G	OP1-P-OP2	6.49	129.33	119.60
1	2	4	C	C2-N3-C4	6.49	123.14	119.90
1	2	945	C	N3-C4-N4	6.49	122.54	118.00
36	1	1207	G	C6-C5-N7	-6.49	126.51	130.40
36	1	1429	G	C4-C5-C6	6.49	122.69	118.80
36	1	2844	C	N1-C2-O2	6.49	122.79	118.90
80	6	105	A	C4-C5-N7	6.49	113.94	110.70
85	5	89	A	C6-C5-N7	-6.49	127.76	132.30
85	5	991	G	OP1-P-OP2	-6.49	109.87	119.60
85	5	1592	G	C4-C5-C6	6.49	122.69	118.80
37	7	121	U	OP1-P-OP2	-6.49	109.87	119.60
36	1	204	A	N7-C8-N9	6.49	117.04	113.80
36	1	820	A	OP2-P-O3'	6.49	119.47	105.20
36	1	1788	C	N3-C2-O2	-6.49	117.36	121.90
36	1	2664	C	N1-C2-O2	6.49	122.79	118.90
36	1	2756	C	N1-C2-O2	6.49	122.79	118.90
36	1	2934	A	C4-C5-N7	-6.49	107.46	110.70
36	1	3106	A	C6-C5-N7	-6.49	127.76	132.30
36	1	3173	G	C2-N3-C4	6.49	115.14	111.90
37	3	77	G	C5-N7-C8	-6.49	101.06	104.30
37	3	88	G	N7-C8-N9	-6.49	109.86	113.10
38	4	19	C	N3-C4-C5	-6.49	119.31	121.90
38	4	117	C	N3-C4-C5	6.49	124.49	121.90
75	O9	5	LYS	CD-CE-NZ	6.49	126.62	111.70
80	6	289	U	N1-C2-N3	6.49	118.79	114.90
80	6	720	G	C5-C6-O6	6.49	132.49	128.60
80	6	1764	C	C5-C4-N4	-6.49	115.66	120.20
85	5	1655	G	OP1-P-OP2	6.49	129.33	119.60
38	8	72	A	C5-C6-N1	-6.49	114.46	117.70
56	n0	113	ARG	NE-CZ-NH1	-6.49	117.06	120.30
36	1	814	U	C2-N3-C4	6.48	130.89	127.00
36	1	1390	A	C5-C6-N1	-6.48	114.46	117.70
85	5	97	U	N3-C4-C5	-6.48	110.71	114.60
85	5	1762	C	OP1-P-O3'	-6.48	90.94	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2238	G	C5-C6-N1	-6.48	108.26	111.50
85	5	2818	U	N3-C2-O2	-6.48	117.66	122.20
85	5	3383	G	C2-N3-C4	-6.48	108.66	111.90
1	2	612	U	N3-C4-C5	6.48	118.49	114.60
1	2	837	U	C6-N1-C2	-6.48	117.11	121.00
36	1	587	U	O5'-P-OP1	6.48	118.48	110.70
36	1	2592	G	C2-N3-C4	-6.48	108.66	111.90
36	1	3074	G	N3-C4-C5	6.48	131.84	128.60
38	4	73	U	N1-C2-O2	6.48	127.34	122.80
38	4	97	A	C4-C5-C6	6.48	120.24	117.00
75	O9	30	ARG	NE-CZ-NH1	6.48	123.54	120.30
85	5	244	G	C4-C5-C6	-6.48	114.91	118.80
85	5	381	U	O5'-P-OP2	-6.48	99.86	105.70
85	5	1003	A	OP1-P-OP2	-6.48	109.88	119.60
85	5	1720	U	C4-C5-C6	6.48	123.59	119.70
85	5	1813	A	O5'-P-OP2	-6.48	99.87	105.70
85	5	2673	A	N7-C8-N9	-6.48	110.56	113.80
85	5	3172	A	N3-C4-N9	6.48	132.59	127.40
1	2	544	A	O5'-P-OP2	-6.48	99.87	105.70
1	2	635	A	N1-C6-N6	6.48	122.49	118.60
1	2	1633	U	N3-C2-O2	-6.48	117.66	122.20
36	1	131	C	C2-N3-C4	-6.48	116.66	119.90
36	1	1117	G	N1-C6-O6	-6.48	116.01	119.90
36	1	1167	U	N1-C2-O2	-6.48	118.26	122.80
36	1	1512	U	OP1-P-OP2	6.48	129.32	119.60
36	1	1656	A	C6-N1-C2	-6.48	114.71	118.60
36	1	1661	G	C6-C5-N7	-6.48	126.51	130.40
36	1	1887	A	N7-C8-N9	-6.48	110.56	113.80
36	1	2761	G	C5-N7-C8	6.48	107.54	104.30
36	1	2957	G	C5-C6-O6	6.48	132.49	128.60
38	4	45	C	N3-C4-C5	-6.48	119.31	121.90
80	6	914	G	N7-C8-N9	-6.48	109.86	113.10
85	5	978	G	N1-C2-N3	6.48	127.79	123.90
85	5	1017	C	N1-C2-N3	-6.48	114.66	119.20
85	5	1136	A	O5'-P-OP1	-6.48	99.87	105.70
85	5	2301	U	N1-C2-N3	6.48	118.79	114.90
85	5	3110	C	O5'-P-OP1	6.48	118.48	110.70
85	5	3147	G	C5-C6-O6	-6.48	124.71	128.60
85	5	3328	G	C6-N1-C2	-6.48	121.21	125.10
44	17	229	PHE	CB-CG-CD1	6.48	125.34	120.80
36	1	54	C	N3-C2-O2	6.48	126.44	121.90
36	1	1537	A	C4-C5-N7	6.48	113.94	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2304	C	OP1-P-O3'	6.48	119.45	105.20
37	3	101	G	C8-N9-C1'	-6.48	118.58	127.00
80	6	816	G	C5-C6-N1	6.48	114.74	111.50
80	6	1476	C	C6-N1-C2	-6.48	117.71	120.30
85	5	828	A	N1-C2-N3	6.48	132.54	129.30
38	8	56	G	C4-C5-C6	6.48	122.69	118.80
1	2	6	G	C8-N9-C4	-6.48	103.81	106.40
1	2	718	C	N1-C2-O2	-6.48	115.01	118.90
1	2	1561	U	N3-C2-O2	-6.48	117.67	122.20
36	1	771	A	C2-N3-C4	-6.48	107.36	110.60
36	1	909	G	C6-N1-C2	-6.48	121.21	125.10
36	1	1362	G	C4-C5-N7	6.48	113.39	110.80
36	1	1431	G	N9-C4-C5	6.48	107.99	105.40
36	1	2735	U	N1-C2-O2	6.48	127.33	122.80
36	1	2959	C	N3-C4-N4	6.48	122.53	118.00
36	1	3139	A	C5-C6-N6	-6.48	118.52	123.70
36	1	3201	C	N3-C4-C5	-6.48	119.31	121.90
36	1	3278	C	OP1-P-OP2	6.48	129.32	119.60
36	1	3290	G	C5-C6-O6	-6.48	124.71	128.60
80	6	1081	A	N7-C8-N9	6.48	117.04	113.80
80	6	1597	A	C4-C5-N7	-6.48	107.46	110.70
85	5	660	A	OP1-P-O3'	6.48	119.45	105.20
85	5	734	C	C5-C4-N4	-6.48	115.67	120.20
85	5	1379	G	C8-N9-C1'	-6.48	118.58	127.00
85	5	2603	G	OP1-P-O3'	6.48	119.45	105.20
1	2	1642	A	C5-N7-C8	-6.48	100.66	103.90
36	1	1780	G	N3-C2-N2	-6.48	115.37	119.90
38	4	123	G	C5-N7-C8	-6.48	101.06	104.30
80	6	360	A	O5'-P-OP2	-6.48	99.87	105.70
80	6	1029	U	C6-N1-C2	-6.48	117.11	121.00
1	2	748	G	N3-C4-N9	6.47	129.88	126.00
1	2	1003	A	C5-C6-N6	6.47	128.88	123.70
36	1	187	A	N9-C4-C5	6.47	108.39	105.80
36	1	941	G	C6-C5-N7	-6.47	126.52	130.40
36	1	943	U	OP1-P-OP2	6.47	129.31	119.60
36	1	2095	G	N3-C2-N2	6.47	124.43	119.90
36	1	2267	C	C6-N1-C2	-6.47	117.71	120.30
36	1	2345	A	C6-C5-N7	-6.47	127.77	132.30
36	1	2933	A	N1-C6-N6	-6.47	114.72	118.60
36	1	3033	A	N1-C2-N3	6.47	132.54	129.30
36	1	3323	A	C2-N3-C4	-6.47	107.36	110.60
80	6	1299	G	C5-C6-N1	-6.47	108.26	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	110	G	N7-C8-N9	-6.47	109.86	113.10
85	5	231	G	C6-C5-N7	-6.47	126.52	130.40
85	5	957	C	C2-N1-C1'	6.47	125.92	118.80
85	5	1114	U	C4-C5-C6	6.47	123.58	119.70
85	5	1373	A	C4-C5-N7	6.47	113.94	110.70
85	5	1883	A	O5'-P-OP2	6.47	118.47	110.70
85	5	2271	A	OP2-P-O3'	6.47	119.44	105.20
85	5	2958	A	C6-C5-N7	-6.47	127.77	132.30
85	5	3126	C	N1-C2-O2	6.47	122.78	118.90
85	5	3167	A	N1-C2-N3	6.47	132.54	129.30
1	2	563	U	C2-N3-C4	-6.47	123.12	127.00
1	2	1148	G	N9-C4-C5	-6.47	102.81	105.40
36	1	248	U	N1-C2-N3	-6.47	111.02	114.90
36	1	784	A	N3-C4-C5	-6.47	122.27	126.80
36	1	1008	U	OP2-P-O3'	6.47	119.44	105.20
36	1	1138	U	C2-N3-C4	-6.47	123.12	127.00
36	1	1475	A	C6-N1-C2	-6.47	114.72	118.60
36	1	1695	U	N3-C4-O4	-6.47	114.87	119.40
36	1	1724	U	C5-C4-O4	-6.47	122.02	125.90
36	1	1823	A	C6-C5-N7	-6.47	127.77	132.30
36	1	2408	U	N3-C4-O4	6.47	123.93	119.40
37	3	102	A	O4'-C1'-N9	-6.47	103.02	108.20
80	6	299	A	C6-N1-C2	6.47	122.48	118.60
80	6	1065	A	OP1-P-OP2	-6.47	109.89	119.60
80	6	1455	G	N3-C4-N9	-6.47	122.12	126.00
85	5	354	U	O4'-C1'-N1	-6.47	103.02	108.20
85	5	915	A	OP1-P-O3'	6.47	119.44	105.20
85	5	1513	G	C8-N9-C4	-6.47	103.81	106.40
85	5	2888	U	C6-N1-C1'	-6.47	112.14	121.20
85	5	3020	U	C5-C6-N1	6.47	125.94	122.70
1	2	459	G	C6-N1-C2	6.47	128.98	125.10
36	1	617	G	C4-C5-C6	6.47	122.68	118.80
36	1	2724	U	OP1-P-OP2	-6.47	109.89	119.60
80	6	962	C	C2-N3-C4	-6.47	116.66	119.90
80	6	1606	C	N3-C4-C5	-6.47	119.31	121.90
85	5	2725	U	OP1-P-OP2	-6.47	109.89	119.60
38	8	139	U	C5-C4-O4	6.47	129.78	125.90
1	2	1560	A	N7-C8-N9	6.47	117.03	113.80
36	1	27	C	C6-N1-C2	-6.47	117.71	120.30
36	1	49	A	C2-N3-C4	-6.47	107.36	110.60
36	1	1116	G	OP1-P-OP2	6.47	129.30	119.60
36	1	1414	G	OP1-P-O3'	6.47	119.43	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1598	G	C4-C5-N7	-6.47	108.21	110.80
36	1	1648	A	C8-N9-C4	6.47	108.39	105.80
37	3	19	C	O5'-P-OP2	-6.47	99.88	105.70
80	6	33	U	O5'-P-OP1	-6.47	99.88	105.70
85	5	1147	G	C8-N9-C4	-6.47	103.81	106.40
85	5	1514	G	N9-C4-C5	6.47	107.99	105.40
85	5	1780	G	C4-C5-N7	6.47	113.39	110.80
85	5	2153	U	N1-C2-O2	-6.47	118.27	122.80
85	5	3191	G	N1-C2-N2	-6.47	110.38	116.20
85	5	3200	G	N3-C4-C5	6.47	131.84	128.60
36	1	1071	U	N3-C4-C5	-6.47	110.72	114.60
36	1	3300	U	C2-N3-C4	-6.47	123.12	127.00
37	3	21	G	OP2-P-O3'	6.47	119.43	105.20
85	5	1361	U	N1-C2-N3	6.47	118.78	114.90
85	5	1526	U	C2-N1-C1'	6.47	125.46	117.70
85	5	2180	G	C5-C6-O6	-6.47	124.72	128.60
85	5	2240	G	OP1-P-OP2	-6.47	109.90	119.60
85	5	2276	G	C4-C5-N7	6.47	113.39	110.80
38	8	82	U	N3-C4-C5	-6.47	110.72	114.60
1	2	639	U	N1-C2-O2	6.47	127.33	122.80
1	2	988	A	N9-C4-C5	6.47	108.39	105.80
36	1	5	G	N1-C2-N2	6.47	122.02	116.20
36	1	14	U	OP1-P-O3'	6.47	119.43	105.20
36	1	14	U	O4'-C1'-N1	-6.47	103.03	108.20
36	1	33	G	C5-C6-O6	-6.47	124.72	128.60
36	1	763	G	C4-C5-N7	-6.47	108.21	110.80
36	1	862	U	N1-C2-N3	6.47	118.78	114.90
36	1	912	G	C4-N9-C1'	6.47	134.91	126.50
36	1	2961	G	OP1-P-O3'	6.47	119.43	105.20
64	N8	9	ARG	NE-CZ-NH1	-6.47	117.07	120.30
80	6	340	U	OP1-P-OP2	-6.47	109.90	119.60
80	6	1124	A	C5-C6-N1	6.47	120.93	117.70
85	5	341	G	N9-C4-C5	6.47	107.99	105.40
85	5	540	U	N3-C4-C5	-6.47	110.72	114.60
85	5	1829	G	N3-C4-C5	6.47	131.83	128.60
85	5	1881	A	N1-C2-N3	6.47	132.53	129.30
38	8	25	G	OP1-P-O3'	6.47	119.42	105.20
1	2	206	A	N9-C4-C5	-6.46	103.21	105.80
1	2	405	C	C5-C4-N4	-6.46	115.67	120.20
1	2	424	C	N1-C2-O2	6.46	122.78	118.90
1	2	703	G	P-O3'-C3'	6.46	127.46	119.70
36	1	115	A	C4-C5-N7	-6.46	107.47	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	519	A	N1-C2-N3	6.46	132.53	129.30
36	1	908	G	C5-C6-O6	-6.46	124.72	128.60
36	1	998	A	C4-C5-N7	6.46	113.93	110.70
36	1	1415	U	N1-C2-O2	-6.46	118.27	122.80
36	1	1597	C	N3-C4-C5	-6.46	119.31	121.90
36	1	3013	U	N3-C4-O4	-6.46	114.88	119.40
36	1	3050	U	N3-C4-C5	-6.46	110.72	114.60
80	6	1746	A	N1-C2-N3	6.46	132.53	129.30
85	5	2833	A	OP1-P-OP2	6.46	129.30	119.60
85	5	2962	U	C5-C6-N1	6.46	125.93	122.70
85	5	3120	C	O5'-P-OP1	-6.46	99.88	105.70
85	5	3167	A	P-O3'-C3'	6.46	127.46	119.70
85	5	3347	A	C5-N7-C8	6.46	107.13	103.90
1	2	931	G	C5-C6-N1	-6.46	108.27	111.50
1	2	1566	A	C4-C5-N7	-6.46	107.47	110.70
36	1	1379	G	OP1-P-O3'	-6.46	90.98	105.20
36	1	1716	U	P-O3'-C3'	6.46	127.45	119.70
36	1	1859	A	N7-C8-N9	-6.46	110.57	113.80
36	1	2923	U	N1-C2-N3	6.46	118.78	114.90
80	6	782	U	C5-C6-N1	-6.46	119.47	122.70
80	6	930	A	C8-N9-C4	6.46	108.39	105.80
80	6	1473	U	C5-C6-N1	6.46	125.93	122.70
85	5	10	C	C4-C5-C6	6.46	120.63	117.40
85	5	1778	G	N3-C2-N2	6.46	124.42	119.90
1	2	102	U	N3-C4-C5	-6.46	110.72	114.60
1	2	1527	U	C5-C4-O4	6.46	129.78	125.90
1	2	1595	U	O5'-P-OP1	-6.46	99.89	105.70
36	1	64	G	N1-C2-N3	6.46	127.78	123.90
36	1	202	G	N1-C6-O6	6.46	123.78	119.90
36	1	885	U	N3-C2-O2	-6.46	117.68	122.20
36	1	1486	G	N1-C6-O6	6.46	123.78	119.90
36	1	1928	G	C4-C5-N7	6.46	113.39	110.80
36	1	2317	A	O5'-P-OP1	6.46	118.45	110.70
36	1	3192	U	N3-C2-O2	6.46	126.72	122.20
37	3	8	G	C5-N7-C8	-6.46	101.07	104.30
49	M3	51	LEU	CB-CG-CD2	-6.46	100.02	111.00
80	6	761	G	C6-N1-C2	-6.46	121.22	125.10
80	6	1176	G	C5-C6-N1	6.46	114.73	111.50
85	5	161	G	OP2-P-O3'	6.46	119.42	105.20
85	5	643	U	C2-N1-C1'	6.46	125.45	117.70
85	5	970	A	C5-N7-C8	6.46	107.13	103.90
85	5	1942	U	N1-C2-N3	6.46	118.78	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2132	C	N1-C2-O2	-6.46	115.02	118.90
85	5	2205	U	C6-N1-C2	6.46	124.88	121.00
85	5	2392	C	C2-N3-C4	-6.46	116.67	119.90
85	5	2593	A	C6-N1-C2	-6.46	114.72	118.60
37	7	114	U	N3-C4-C5	-6.46	110.72	114.60
38	8	94	C	N1-C2-N3	6.46	123.72	119.20
1	2	711	U	N1-C2-O2	6.46	127.32	122.80
36	1	690	A	C6-C5-N7	6.46	136.82	132.30
36	1	1161	G	C8-N9-C4	-6.46	103.82	106.40
36	1	2169	G	N3-C2-N2	6.46	124.42	119.90
80	6	327	U	N3-C4-C5	-6.46	110.72	114.60
80	6	1676	U	N3-C4-C5	-6.46	110.72	114.60
85	5	107	A	C8-N9-C4	-6.46	103.22	105.80
85	5	843	A	N9-C4-C5	-6.46	103.22	105.80
85	5	934	G	C5-C6-N1	6.46	114.73	111.50
85	5	1053	A	C8-N9-C4	-6.46	103.22	105.80
85	5	2368	A	C5-C6-N6	6.46	128.87	123.70
85	5	2723	U	N1-C2-N3	6.46	118.78	114.90
85	5	2881	C	N3-C2-O2	6.46	126.42	121.90
85	5	2925	C	N3-C4-C5	6.46	124.48	121.90
38	8	97	A	OP1-P-OP2	-6.46	109.91	119.60
56	n0	13	ARG	NE-CZ-NH2	-6.46	117.07	120.30
36	1	46	U	OP2-P-O3'	6.46	119.41	105.20
36	1	159	A	C5-N7-C8	-6.46	100.67	103.90
36	1	552	G	N1-C6-O6	6.46	123.78	119.90
36	1	582	G	N3-C2-N2	-6.46	115.38	119.90
36	1	717	C	C5-C6-N1	-6.46	117.77	121.00
36	1	760	G	C2-N3-C4	-6.46	108.67	111.90
36	1	1035	G	C4-C5-N7	-6.46	108.22	110.80
36	1	1854	C	OP1-P-OP2	-6.46	109.91	119.60
36	1	1890	U	C5-C4-O4	-6.46	122.03	125.90
36	1	2404	A	C2-N3-C4	6.46	113.83	110.60
36	1	3177	G	N3-C2-N2	6.46	124.42	119.90
80	6	252	U	N3-C4-C5	-6.46	110.72	114.60
85	5	90	C	O5'-P-OP1	-6.46	99.89	105.70
85	5	337	G	C5-C6-O6	-6.46	124.72	128.60
85	5	552	G	C8-N9-C4	6.46	108.98	106.40
85	5	639	G	OP1-P-O3'	6.46	119.41	105.20
85	5	731	U	C4-C5-C6	6.46	123.58	119.70
85	5	734	C	C4-C5-C6	-6.46	114.17	117.40
85	5	789	A	N1-C2-N3	6.46	132.53	129.30
85	5	880	G	N9-C4-C5	6.46	107.98	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2354	C	OP1-P-O3'	6.46	119.41	105.20
54	m8	147	ARG	NE-CZ-NH1	-6.46	117.07	120.30
1	2	79	C	C2-N3-C4	-6.46	116.67	119.90
1	2	594	A	O5'-P-OP2	-6.46	99.89	105.70
36	1	308	A	O5'-P-OP1	6.46	118.45	110.70
36	1	1142	G	N3-C4-C5	-6.46	125.37	128.60
36	1	1200	A	C8-N9-C4	-6.46	103.22	105.80
36	1	1317	A	C5-C6-N1	6.46	120.93	117.70
36	1	3002	C	N1-C2-O2	6.46	122.77	118.90
80	6	85	A	C4-C5-C6	6.46	120.23	117.00
80	6	385	A	O5'-P-OP2	-6.46	99.89	105.70
80	6	884	A	C5-N7-C8	6.46	107.13	103.90
85	5	798	G	N3-C4-N9	-6.46	122.13	126.00
85	5	2217	U	C5-C4-O4	-6.46	122.03	125.90
85	5	2788	C	C6-N1-C2	6.46	122.88	120.30
85	5	2906	C	C5-C6-N1	-6.46	117.77	121.00
37	7	64	A	N7-C8-N9	-6.46	110.57	113.80
1	2	1022	A	C5-C6-N1	6.46	120.93	117.70
1	2	1542	A	C5-C6-N6	-6.46	118.54	123.70
1	2	1583	A	C5-N7-C8	-6.46	100.67	103.90
36	1	649	A	C5-N7-C8	-6.46	100.67	103.90
36	1	1140	G	C5-N7-C8	6.46	107.53	104.30
36	1	2837	A	C2-N3-C4	-6.46	107.37	110.60
36	1	3174	A	N1-C6-N6	6.46	122.47	118.60
38	4	83	C	C5-C6-N1	6.46	124.23	121.00
80	6	1402	G	N1-C6-O6	-6.46	116.03	119.90
24	d2	112	ASP	CB-CG-OD2	-6.46	112.49	118.30
85	5	12	A	C2-N3-C4	-6.46	107.37	110.60
85	5	524	U	C2-N3-C4	-6.46	123.13	127.00
85	5	1207	G	O5'-P-OP2	6.46	118.45	110.70
85	5	3147	G	C2-N3-C4	-6.46	108.67	111.90
1	2	25	C	N1-C2-O2	6.45	122.77	118.90
1	2	144	U	N1-C2-O2	6.45	127.32	122.80
1	2	1198	C	N3-C2-O2	-6.45	117.38	121.90
24	D2	28	ARG	NE-CZ-NH1	-6.45	117.07	120.30
36	1	1122	U	C4-C5-C6	6.45	123.57	119.70
36	1	1352	A	N9-C4-C5	-6.45	103.22	105.80
36	1	1687	U	N3-C2-O2	6.45	126.72	122.20
36	1	2660	G	C2-N3-C4	6.45	115.13	111.90
36	1	2768	U	N3-C2-O2	6.45	126.72	122.20
36	1	2801	A	OP1-P-OP2	6.45	129.28	119.60
37	3	109	G	C6-N1-C2	-6.45	121.23	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	268	C	O5'-P-OP2	-6.45	99.89	105.70
80	6	576	G	C5-N7-C8	-6.45	101.07	104.30
80	6	1154	G	C6-N1-C2	-6.45	121.23	125.10
80	6	1156	C	C5-C6-N1	6.45	124.23	121.00
80	6	1498	G	O4'-C1'-N9	6.45	113.36	108.20
85	5	293	C	C2-N3-C4	-6.45	116.67	119.90
85	5	629	U	N3-C4-C5	-6.45	110.73	114.60
85	5	1444	G	O4'-C1'-N9	-6.45	103.04	108.20
85	5	2417	U	N1-C2-N3	6.45	118.77	114.90
85	5	2540	A	N1-C6-N6	-6.45	114.73	118.60
36	1	1429	G	C8-N9-C1'	-6.45	118.61	127.00
37	3	21	G	C4-C5-N7	6.45	113.38	110.80
38	4	132	G	N1-C6-O6	-6.45	116.03	119.90
80	6	963	A	C5-C6-N1	6.45	120.93	117.70
80	6	1060	U	C5-C4-O4	6.45	129.77	125.90
80	6	1722	A	N1-C2-N3	6.45	132.53	129.30
85	5	201	A	C5-N7-C8	-6.45	100.67	103.90
85	5	411	U	OP1-P-OP2	-6.45	109.92	119.60
85	5	1443	G	C4-C5-C6	6.45	122.67	118.80
85	5	2668	U	N3-C4-C5	-6.45	110.73	114.60
85	5	2975	U	N3-C2-O2	-6.45	117.68	122.20
1	2	1101	G	C8-N9-C4	-6.45	103.82	106.40
1	2	1235	C	N3-C2-O2	-6.45	117.38	121.90
36	1	650	C	N3-C4-N4	6.45	122.52	118.00
36	1	668	G	O5'-P-OP1	6.45	118.44	110.70
36	1	3215	A	N1-C6-N6	-6.45	114.73	118.60
36	1	3364	C	N1-C2-O2	-6.45	115.03	118.90
37	3	75	G	N9-C4-C5	-6.45	102.82	105.40
37	3	97	A	C4-C5-C6	6.45	120.22	117.00
80	6	524	U	C4-C5-C6	6.45	123.57	119.70
80	6	1426	C	OP1-P-OP2	-6.45	109.92	119.60
85	5	1738	C	N1-C2-O2	-6.45	115.03	118.90
85	5	1922	A	C5-C6-N1	-6.45	114.47	117.70
37	7	121	U	C5-C6-N1	-6.45	119.47	122.70
1	2	83	G	N3-C4-C5	-6.45	125.38	128.60
1	2	659	G	C4-C5-N7	6.45	113.38	110.80
1	2	1068	G	N9-C4-C5	-6.45	102.82	105.40
1	2	1566	A	N1-C6-N6	-6.45	114.73	118.60
36	1	17	G	N1-C2-N2	6.45	122.00	116.20
36	1	345	G	C5-C6-N1	-6.45	108.28	111.50
36	1	573	C	N3-C2-O2	-6.45	117.39	121.90
36	1	673	U	O4'-C1'-N1	6.45	113.36	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1137	C	C5-C6-N1	-6.45	117.78	121.00
36	1	1142	G	N7-C8-N9	-6.45	109.88	113.10
36	1	2115	G	N3-C2-N2	-6.45	115.39	119.90
36	1	2172	A	C4-C5-N7	6.45	113.92	110.70
36	1	2209	U	C6-N1-C2	-6.45	117.13	121.00
36	1	2240	G	N9-C4-C5	-6.45	102.82	105.40
36	1	2354	C	N3-C4-C5	-6.45	119.32	121.90
38	4	36	G	N1-C2-N3	6.45	127.77	123.90
80	6	458	G	C5-C6-N1	-6.45	108.28	111.50
85	5	404	G	N1-C6-O6	6.45	123.77	119.90
85	5	590	G	C5-N7-C8	-6.45	101.08	104.30
85	5	594	U	C2-N3-C4	6.45	130.87	127.00
85	5	817	A	C6-N1-C2	-6.45	114.73	118.60
85	5	1602	A	OP2-P-O3'	6.45	119.39	105.20
85	5	1604	G	N3-C4-N9	6.45	129.87	126.00
85	5	2613	U	OP1-P-OP2	-6.45	109.93	119.60
85	5	2625	C	N3-C4-N4	6.45	122.51	118.00
37	7	79	A	C5-N7-C8	-6.45	100.67	103.90
1	2	670	G	C8-N9-C4	-6.45	103.82	106.40
36	1	883	A	C2-N3-C4	-6.45	107.38	110.60
36	1	1435	A	O4'-C1'-N9	6.45	113.36	108.20
36	1	2392	C	N3-C4-C5	-6.45	119.32	121.90
36	1	2934	A	C5-N7-C8	6.45	107.12	103.90
37	3	104	A	C5-C6-N1	-6.45	114.48	117.70
85	5	2847	A	C2-N3-C4	-6.45	107.38	110.60
1	2	414	C	N1-C2-N3	-6.45	114.69	119.20
36	1	1305	U	O5'-P-OP2	-6.45	99.90	105.70
36	1	1724	U	N1-C2-O2	-6.45	118.29	122.80
36	1	1825	G	C5-N7-C8	-6.45	101.08	104.30
36	1	2699	G	P-O3'-C3'	-6.45	111.97	119.70
36	1	3213	A	OP1-P-OP2	6.45	129.27	119.60
36	1	3370	A	C8-N9-C4	-6.45	103.22	105.80
38	4	112	U	N1-C2-O2	-6.45	118.29	122.80
80	6	555	A	N9-C4-C5	6.45	108.38	105.80
80	6	1128	C	N3-C2-O2	-6.45	117.39	121.90
85	5	642	U	O5'-P-OP2	-6.45	99.90	105.70
85	5	822	G	N1-C6-O6	6.45	123.77	119.90
85	5	1164	G	N1-C2-N3	-6.45	120.03	123.90
85	5	1363	A	C5-N7-C8	6.45	107.12	103.90
85	5	3010	U	N3-C4-O4	-6.45	114.89	119.40
1	2	356	G	C6-C5-N7	-6.44	126.53	130.40
1	2	1302	A	N7-C8-N9	6.44	117.02	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1787	A	OP1-P-OP2	-6.44	109.93	119.60
37	3	109	G	C5-N7-C8	-6.44	101.08	104.30
85	5	398	A	OP2-P-O3'	6.44	119.38	105.20
85	5	656	A	N1-C2-N3	6.44	132.52	129.30
85	5	2392	C	C6-N1-C2	6.44	122.88	120.30
85	5	3366	G	N3-C4-C5	-6.44	125.38	128.60
1	2	1040	U	N1-C2-N3	-6.44	111.03	114.90
1	2	1550	U	N3-C2-O2	-6.44	117.69	122.20
1	2	1709	G	N1-C6-O6	-6.44	116.03	119.90
36	1	781	G	C8-N9-C4	-6.44	103.82	106.40
36	1	1710	C	C2-N1-C1'	6.44	125.89	118.80
36	1	2181	C	C4-C5-C6	-6.44	114.18	117.40
36	1	2314	U	C2-N1-C1'	6.44	125.43	117.70
36	1	2648	G	C8-N9-C4	-6.44	103.82	106.40
80	6	411	C	N3-C4-C5	6.44	124.48	121.90
80	6	441	A	C5-C6-N1	-6.44	114.48	117.70
80	6	1381	U	N1-C2-O2	6.44	127.31	122.80
80	6	1550	A	C6-C5-N7	-6.44	127.79	132.30
85	5	494	G	N1-C6-O6	6.44	123.77	119.90
85	5	1166	G	N1-C2-N2	-6.44	110.40	116.20
85	5	1452	A	C5-C6-N6	-6.44	118.55	123.70
85	5	1523	U	C2-N3-C4	6.44	130.87	127.00
85	5	2117	A	C8-N9-C4	-6.44	103.22	105.80
85	5	2623	G	C5-C6-O6	-6.44	124.73	128.60
85	5	2745	G	C4-C5-C6	6.44	122.67	118.80
85	5	3196	U	C4-C5-C6	-6.44	115.83	119.70
85	5	3309	G	N3-C4-C5	-6.44	125.38	128.60
38	8	55	U	N1-C2-N3	-6.44	111.03	114.90
1	2	1100	U	C5-C4-O4	-6.44	122.04	125.90
36	1	61	A	C2-N3-C4	-6.44	107.38	110.60
36	1	511	G	OP1-P-OP2	6.44	129.26	119.60
36	1	787	G	N7-C8-N9	6.44	116.32	113.10
36	1	1037	C	C6-N1-C2	-6.44	117.72	120.30
36	1	1400	G	C5-C6-O6	6.44	132.47	128.60
36	1	1462	A	C4-C5-C6	6.44	120.22	117.00
36	1	2383	C	C5-C6-N1	6.44	124.22	121.00
36	1	2619	G	OP1-P-O3'	6.44	119.37	105.20
80	6	1174	C	C6-N1-C2	-6.44	117.72	120.30
80	6	1415	U	C2-N3-C4	6.44	130.86	127.00
85	5	1332	A	C5-C6-N6	6.44	128.85	123.70
85	5	1455	U	N3-C4-C5	6.44	118.46	114.60
85	5	1814	A	N1-C6-N6	-6.44	114.74	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2234	G	C4-C5-N7	6.44	113.38	110.80
85	5	2275	A	N7-C8-N9	6.44	117.02	113.80
62	n6	115	ARG	NE-CZ-NH2	6.44	123.52	120.30
36	1	608	A	O5'-P-OP2	6.44	118.43	110.70
36	1	1535	A	C2-N3-C4	-6.44	107.38	110.60
36	1	2375	G	C2-N3-C4	6.44	115.12	111.90
36	1	3092	C	N3-C4-N4	6.44	122.51	118.00
80	6	256	A	N7-C8-N9	6.44	117.02	113.80
80	6	518	A	C5-C6-N6	6.44	128.85	123.70
85	5	1607	U	C5-C6-N1	6.44	125.92	122.70
85	5	2270	A	N1-C6-N6	6.44	122.46	118.60
1	2	16	G	C2-N3-C4	6.44	115.12	111.90
1	2	1810	A	C8-N9-C4	-6.44	103.22	105.80
36	1	231	G	C8-N9-C4	-6.44	103.83	106.40
36	1	511	G	N1-C2-N2	6.44	121.99	116.20
36	1	1406	A	N7-C8-N9	6.44	117.02	113.80
36	1	1510	G	N9-C4-C5	-6.44	102.83	105.40
36	1	2863	G	C5-N7-C8	-6.44	101.08	104.30
36	1	3219	G	N1-C6-O6	6.44	123.76	119.90
37	3	65	G	C5-C6-O6	6.44	132.46	128.60
80	6	535	A	N1-C6-N6	6.44	122.46	118.60
80	6	1107	G	C6-C5-N7	-6.44	126.54	130.40
80	6	1304	G	C5-N7-C8	6.44	107.52	104.30
80	6	1436	A	C8-N9-C4	-6.44	103.22	105.80
85	5	90	C	C4-C5-C6	6.44	120.62	117.40
85	5	327	A	C4-C5-N7	6.44	113.92	110.70
85	5	373	A	N1-C2-N3	6.44	132.52	129.30
85	5	1086	C	N3-C4-N4	6.44	122.51	118.00
85	5	1259	A	C8-N9-C4	-6.44	103.22	105.80
85	5	1314	C	C2-N1-C1'	6.44	125.88	118.80
85	5	1801	U	OP2-P-O3'	6.44	119.36	105.20
85	5	1838	G	O5'-P-OP1	6.44	118.43	110.70
85	5	2847	A	N9-C4-C5	-6.44	103.22	105.80
38	8	154	C	C5-C4-N4	6.44	124.71	120.20
1	2	362	G	N3-C4-C5	6.44	131.82	128.60
1	2	1367	A	N7-C8-N9	-6.44	110.58	113.80
36	1	724	U	N1-C2-O2	-6.44	118.30	122.80
36	1	756	U	C5-C6-N1	-6.44	119.48	122.70
36	1	2173	U	C6-N1-C1'	6.44	130.21	121.20
38	4	79	A	C6-N1-C2	6.44	122.46	118.60
52	M6	156	LEU	CB-CG-CD2	-6.44	100.06	111.00
85	5	325	A	O5'-P-OP2	-6.44	99.91	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	582	G	C5-N7-C8	-6.44	101.08	104.30
85	5	1837	U	C6-N1-C2	-6.44	117.14	121.00
85	5	1896	A	C6-N1-C2	-6.44	114.74	118.60
85	5	3393	U	C6-N1-C2	-6.44	117.14	121.00
1	2	145	A	N9-C4-C5	6.43	108.37	105.80
1	2	936	G	N1-C2-N2	-6.43	110.41	116.20
36	1	343	U	N3-C2-O2	-6.43	117.69	122.20
36	1	659	G	C2-N3-C4	6.43	115.12	111.90
36	1	1181	U	N1-C2-N3	6.43	118.76	114.90
36	1	1427	U	N3-C4-O4	6.43	123.90	119.40
36	1	1774	C	N3-C2-O2	-6.43	117.40	121.90
36	1	2832	C	N3-C4-C5	6.43	124.47	121.90
36	1	3337	G	C6-N1-C2	-6.43	121.24	125.10
80	6	146	U	N3-C4-O4	6.43	123.90	119.40
80	6	164	A	N9-C4-C5	6.43	108.37	105.80
80	6	1421	A	C5-C6-N1	-6.43	114.48	117.70
85	5	440	A	C5-C6-N1	-6.43	114.48	117.70
85	5	763	G	N1-C2-N3	6.43	127.76	123.90
85	5	803	C	C2-N3-C4	6.43	123.12	119.90
85	5	927	C	C5-C6-N1	6.43	124.22	121.00
85	5	1163	A	N1-C2-N3	6.43	132.52	129.30
85	5	1778	G	N9-C4-C5	-6.43	102.83	105.40
85	5	2273	G	C4-C5-C6	6.43	122.66	118.80
85	5	2846	U	OP1-P-OP2	-6.43	109.95	119.60
85	5	3011	A	N9-C4-C5	-6.43	103.23	105.80
85	5	3013	U	N3-C4-C5	-6.43	110.74	114.60
85	5	3100	U	C5-C6-N1	6.43	125.92	122.70
85	5	3175	U	C6-N1-C2	-6.43	117.14	121.00
38	8	135	G	C6-C5-N7	6.43	134.26	130.40
36	1	179	C	N3-C4-C5	6.43	124.47	121.90
36	1	680	G	O5'-P-OP1	-6.43	99.91	105.70
36	1	1298	C	C6-N1-C2	6.43	122.87	120.30
36	1	1818	U	C5-C6-N1	6.43	125.92	122.70
36	1	2828	G	C4-N9-C1'	6.43	134.86	126.50
80	6	1079	U	OP1-P-OP2	6.43	129.25	119.60
80	6	1671	A	C8-N9-C4	6.43	108.37	105.80
85	5	598	A	C5-C6-N6	-6.43	118.55	123.70
85	5	856	G	N3-C4-N9	6.43	129.86	126.00
85	5	1383	G	C4-C5-N7	-6.43	108.23	110.80
85	5	2761	G	N1-C2-N2	-6.43	110.41	116.20
1	2	733	U	N3-C2-O2	-6.43	117.70	122.20
1	2	1560	A	C8-N9-C4	-6.43	103.23	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	320	G	C5-C6-N1	6.43	114.72	111.50
36	1	1332	A	OP2-P-O3'	6.43	119.35	105.20
36	1	2232	A	N1-C2-N3	6.43	132.51	129.30
80	6	317	C	N3-C4-C5	-6.43	119.33	121.90
1	2	1284	U	OP1-P-O3'	6.43	119.34	105.20
1	2	1461	G	N7-C8-N9	6.43	116.31	113.10
36	1	821	U	C2-N1-C1'	-6.43	109.98	117.70
36	1	1936	A	C6-N1-C2	-6.43	114.74	118.60
36	1	2227	C	N1-C2-N3	6.43	123.70	119.20
36	1	2417	U	O5'-P-OP1	6.43	118.42	110.70
36	1	2816	G	C8-N9-C4	6.43	108.97	106.40
36	1	2941	A	N7-C8-N9	6.43	117.02	113.80
36	1	2996	U	O5'-P-OP2	-6.43	99.91	105.70
38	4	44	A	N1-C2-N3	6.43	132.51	129.30
80	6	503	G	C8-N9-C4	-6.43	103.83	106.40
85	5	108	A	O5'-P-OP1	6.43	118.41	110.70
85	5	1081	U	C5-C6-N1	6.43	125.92	122.70
85	5	1114	U	C6-N1-C2	-6.43	117.14	121.00
85	5	1474	A	N7-C8-N9	6.43	117.02	113.80
85	5	1941	C	C5-C4-N4	-6.43	115.70	120.20
85	5	2250	G	N3-C4-C5	6.43	131.81	128.60
85	5	2625	C	C5-C4-N4	-6.43	115.70	120.20
85	5	3127	A	N7-C8-N9	6.43	117.02	113.80
36	1	234	G	N1-C6-O6	6.43	123.76	119.90
36	1	348	A	O5'-P-OP2	-6.43	99.92	105.70
36	1	1525	G	O5'-P-OP2	-6.43	99.91	105.70
36	1	2812	C	N3-C2-O2	6.43	126.40	121.90
38	4	10	A	C6-N1-C2	-6.43	114.74	118.60
80	6	297	U	C2-N3-C4	6.43	130.86	127.00
80	6	541	A	P-O3'-C3'	-6.43	111.99	119.70
85	5	1129	A	N1-C2-N3	6.43	132.51	129.30
85	5	1374	G	O5'-P-OP1	6.43	118.41	110.70
85	5	2800	G	C5-C6-O6	6.43	132.46	128.60
42	15	107	ARG	NE-CZ-NH1	6.43	123.51	120.30
1	2	737	A	C5-C6-N6	6.43	128.84	123.70
36	1	379	C	C2-N3-C4	-6.43	116.69	119.90
36	1	496	C	OP1-P-OP2	-6.43	109.96	119.60
36	1	750	G	C4-C5-N7	-6.43	108.23	110.80
36	1	1060	U	N3-C2-O2	6.43	126.70	122.20
36	1	1525	G	N9-C4-C5	6.43	107.97	105.40
37	3	78	U	N1-C2-N3	-6.43	111.04	114.90
85	5	244	G	N1-C2-N2	-6.43	110.42	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	400	G	C4-C5-N7	6.43	113.37	110.80
85	5	1369	A	C5-C6-N6	6.43	128.84	123.70
85	5	1595	U	N1-C2-O2	-6.43	118.30	122.80
85	5	2274	U	N1-C2-N3	6.43	118.76	114.90
85	5	2868	U	C2-N1-C1'	6.43	125.41	117.70
85	5	2934	A	C5-C6-N1	6.43	120.91	117.70
85	5	2965	U	O5'-P-OP1	-6.43	99.92	105.70
1	2	440	U	N3-C2-O2	-6.42	117.70	122.20
1	2	1109	G	N1-C6-O6	-6.42	116.05	119.90
36	1	1041	U	C2-N3-C4	-6.42	123.14	127.00
36	1	1176	C	O5'-P-OP1	6.42	118.41	110.70
36	1	1228	C	C6-N1-C2	-6.42	117.73	120.30
36	1	1820	U	C5-C6-N1	-6.42	119.49	122.70
36	1	3093	C	OP1-P-OP2	-6.42	109.96	119.60
36	1	3275	U	N3-C2-O2	6.42	126.70	122.20
38	4	128	U	O5'-P-OP2	-6.42	99.92	105.70
80	6	7	G	N7-C8-N9	6.42	116.31	113.10
80	6	347	G	N3-C2-N2	-6.42	115.40	119.90
80	6	352	A	OP2-P-O3'	6.42	119.33	105.20
80	6	544	A	C5-C6-N1	6.42	120.91	117.70
80	6	903	U	O5'-P-OP2	-6.42	99.92	105.70
80	6	1129	U	C2-N3-C4	6.42	130.85	127.00
85	5	419	G	N3-C2-N2	6.42	124.40	119.90
85	5	1530	U	O5'-P-OP2	-6.42	99.92	105.70
85	5	1769	G	N1-C6-O6	6.42	123.75	119.90
85	5	2324	A	C5-C6-N6	-6.42	118.56	123.70
85	5	2648	G	N3-C4-N9	-6.42	122.15	126.00
85	5	2807	U	N1-C2-O2	-6.42	118.30	122.80
68	o2	125	ARG	NE-CZ-NH2	6.42	123.51	120.30
36	1	1475	A	N1-C2-N3	6.42	132.51	129.30
36	1	1846	C	C5-C6-N1	6.42	124.21	121.00
36	1	1902	G	C4-C5-N7	6.42	113.37	110.80
36	1	1913	A	N3-C4-C5	-6.42	122.30	126.80
36	1	2741	C	N1-C2-O2	-6.42	115.05	118.90
36	1	2889	C	N3-C4-N4	-6.42	113.50	118.00
36	1	3058	U	C5-C4-O4	6.42	129.75	125.90
80	6	1016	C	N3-C4-N4	6.42	122.50	118.00
80	6	1105	C	N1-C2-O2	-6.42	115.05	118.90
85	5	106	A	C5-C6-N1	6.42	120.91	117.70
85	5	303	G	N7-C8-N9	6.42	116.31	113.10
85	5	736	A	C6-N1-C2	6.42	122.45	118.60
1	2	907	A	C5-C6-N1	6.42	120.91	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	283	G	O5'-P-OP1	6.42	118.41	110.70
36	1	1619	A	C5-C6-N1	-6.42	114.49	117.70
36	1	2312	A	OP2-P-O3'	6.42	119.33	105.20
36	1	2714	G	C2-N3-C4	-6.42	108.69	111.90
36	1	2829	U	N3-C4-O4	6.42	123.89	119.40
80	6	32	U	C2-N1-C1'	6.42	125.41	117.70
80	6	1002	G	OP1-P-OP2	-6.42	109.97	119.60
80	6	1604	U	C5-C6-N1	6.42	125.91	122.70
80	6	1656	U	C5-C4-O4	-6.42	122.05	125.90
85	5	394	G	N3-C4-N9	-6.42	122.15	126.00
85	5	906	A	N1-C2-N3	6.42	132.51	129.30
85	5	1104	G	N1-C6-O6	-6.42	116.05	119.90
85	5	1116	G	N3-C2-N2	6.42	124.40	119.90
85	5	1541	G	N1-C2-N2	6.42	121.98	116.20
37	7	23	A	N3-C4-C5	-6.42	122.30	126.80
36	1	894	G	N7-C8-N9	6.42	116.31	113.10
36	1	1435	A	N1-C6-N6	-6.42	114.75	118.60
36	1	2720	G	C5-N7-C8	-6.42	101.09	104.30
36	1	2933	A	OP1-P-OP2	6.42	129.23	119.60
36	1	2955	U	C2-N3-C4	-6.42	123.15	127.00
36	1	3344	A	N1-C6-N6	6.42	122.45	118.60
38	4	16	G	N3-C4-C5	-6.42	125.39	128.60
85	5	1711	C	OP2-P-O3'	6.42	119.32	105.20
85	5	2911	A	C5-N7-C8	-6.42	100.69	103.90
1	2	165	G	C4-C5-C6	6.42	122.65	118.80
1	2	230	C	N1-C2-O2	6.42	122.75	118.90
1	2	1020	C	N3-C4-C5	-6.42	119.33	121.90
36	1	507	U	C2-N3-C4	6.42	130.85	127.00
36	1	625	G	C6-C5-N7	6.42	134.25	130.40
36	1	961	C	N1-C2-N3	6.42	123.69	119.20
36	1	1125	U	N3-C2-O2	-6.42	117.71	122.20
36	1	1780	G	C4-C5-N7	-6.42	108.23	110.80
36	1	2306	C	N3-C4-C5	6.42	124.47	121.90
36	1	2645	G	C5-C6-O6	6.42	132.45	128.60
36	1	3104	U	C6-N1-C2	6.42	124.85	121.00
38	4	28	C	C2-N1-C1'	6.42	125.86	118.80
80	6	119	A	C6-C5-N7	-6.42	127.81	132.30
80	6	419	G	N3-C4-C5	6.42	131.81	128.60
80	6	1196	A	C8-N9-C4	-6.42	103.23	105.80
85	5	660	A	N9-C4-C5	6.42	108.37	105.80
85	5	1934	G	N1-C2-N2	6.42	121.98	116.20
85	5	2554	A	C4-C5-C6	6.42	120.21	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2587	U	C5-C6-N1	6.42	125.91	122.70
85	5	2700	G	N9-C4-C5	-6.42	102.83	105.40
85	5	2730	G	N3-C4-C5	6.42	131.81	128.60
85	5	2838	A	C6-N1-C2	-6.42	114.75	118.60
85	5	3089	C	C5-C6-N1	6.42	124.21	121.00
37	7	46	A	C4-C5-C6	6.42	120.21	117.00
1	2	719	C	C2-N3-C4	6.42	123.11	119.90
1	2	1263	C	N3-C4-N4	6.42	122.49	118.00
1	2	1634	A	C2-N3-C4	-6.42	107.39	110.60
36	1	69	C	N3-C4-C5	-6.42	119.33	121.90
36	1	391	A	C5-N7-C8	6.42	107.11	103.90
36	1	438	A	C5-C6-N6	-6.42	118.57	123.70
36	1	776	U	N3-C2-O2	-6.42	117.71	122.20
36	1	811	U	C2-N3-C4	-6.42	123.15	127.00
36	1	925	A	N7-C8-N9	6.42	117.01	113.80
36	1	1557	A	C2-N3-C4	-6.42	107.39	110.60
36	1	2718	U	N3-C4-C5	6.42	118.45	114.60
36	1	3239	G	O5'-P-OP1	6.42	118.40	110.70
38	4	19	C	C4-C5-C6	6.42	120.61	117.40
38	4	65	A	C6-N1-C2	-6.42	114.75	118.60
80	6	331	A	N9-C4-C5	6.42	108.37	105.80
80	6	612	U	N1-C2-O2	6.42	127.29	122.80
80	6	978	A	N1-C2-N3	6.42	132.51	129.30
85	5	219	A	C8-N9-C4	6.42	108.37	105.80
85	5	542	G	N1-C2-N3	-6.42	120.05	123.90
85	5	763	G	C5-N7-C8	-6.42	101.09	104.30
85	5	1149	G	C5-C6-N1	6.42	114.71	111.50
85	5	1584	U	C4-C5-C6	-6.42	115.85	119.70
85	5	2192	C	C4-C5-C6	6.42	120.61	117.40
85	5	2620	G	C8-N9-C1'	6.42	135.34	127.00
85	5	2880	U	N3-C4-O4	-6.42	114.91	119.40
1	2	101	U	C5-C4-O4	-6.42	122.05	125.90
36	1	1086	C	N3-C4-C5	6.42	124.47	121.90
36	1	1732	U	N1-C2-O2	6.42	127.29	122.80
36	1	3121	U	N1-C2-O2	6.42	127.29	122.80
80	6	1040	G	C2-N3-C4	6.42	115.11	111.90
80	6	1755	A	OP2-P-O3'	6.42	119.31	105.20
85	5	1902	G	C8-N9-C4	-6.42	103.83	106.40
85	5	1947	G	N7-C8-N9	-6.42	109.89	113.10
85	5	2196	C	N3-C4-N4	-6.42	113.51	118.00
85	5	2219	A	C4-C5-C6	6.42	120.21	117.00
85	5	2304	C	C2-N3-C4	-6.42	116.69	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2978	U	O4'-C1'-N1	6.42	113.33	108.20
85	5	3016	A	OP2-P-O3'	6.42	119.31	105.20
1	2	3	U	OP1-P-OP2	6.41	129.22	119.60
1	2	1610	U	C6-N1-C2	-6.41	117.15	121.00
36	1	694	C	OP1-P-O3'	6.41	119.31	105.20
36	1	740	G	N1-C2-N2	-6.41	110.43	116.20
36	1	1664	G	C5-N7-C8	-6.41	101.09	104.30
36	1	1682	U	O5'-P-OP2	6.41	118.39	110.70
36	1	1733	G	OP1-P-OP2	6.41	129.22	119.60
36	1	3187	A	N3-C4-N9	6.41	132.53	127.40
36	1	3251	U	C6-N1-C2	6.41	124.85	121.00
80	6	543	C	C2-N3-C4	6.41	123.11	119.90
80	6	616	G	OP2-P-O3'	6.41	119.31	105.20
85	5	205	C	N3-C4-C5	6.41	124.47	121.90
85	5	303	G	C5-C6-N1	6.41	114.71	111.50
85	5	924	G	C5-C6-O6	6.41	132.45	128.60
85	5	1557	A	N7-C8-N9	6.41	117.01	113.80
85	5	1916	U	N3-C2-O2	6.41	126.69	122.20
85	5	2194	G	C6-N1-C2	-6.41	121.25	125.10
85	5	2591	A	N3-C4-C5	6.41	131.29	126.80
85	5	2635	A	C6-N1-C2	-6.41	114.75	118.60
85	5	3221	C	OP1-P-OP2	-6.41	109.98	119.60
85	5	3243	A	C6-C5-N7	-6.41	127.81	132.30
85	5	3344	A	C8-N9-C4	-6.41	103.23	105.80
36	1	1534	A	C4-C5-N7	6.41	113.91	110.70
36	1	2133	U	OP1-P-OP2	-6.41	109.98	119.60
37	3	40	C	N3-C4-C5	-6.41	119.33	121.90
85	5	352	A	C2-N3-C4	6.41	113.81	110.60
85	5	987	U	N1-C2-N3	6.41	118.75	114.90
85	5	1780	G	C5-C6-O6	-6.41	124.75	128.60
85	5	2205	U	N3-C4-C5	6.41	118.45	114.60
85	5	2441	A	C2-N3-C4	6.41	113.81	110.60
85	5	2596	U	OP2-P-O3'	6.41	119.31	105.20
62	n6	115	ARG	NE-CZ-NH1	-6.41	117.09	120.30
1	2	306	U	N3-C4-C5	-6.41	110.75	114.60
1	2	540	G	C5-C6-O6	-6.41	124.75	128.60
1	2	1126	A	C5-C6-N6	-6.41	118.57	123.70
36	1	106	A	N1-C2-N3	6.41	132.50	129.30
36	1	1383	G	C8-N9-C4	-6.41	103.84	106.40
36	1	2300	G	N3-C2-N2	-6.41	115.41	119.90
36	1	2634	U	O5'-P-OP1	6.41	118.39	110.70
36	1	2879	C	C4-C5-C6	-6.41	114.19	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	210	A	N1-C2-N3	6.41	132.51	129.30
80	6	1773	C	N3-C2-O2	6.41	126.39	121.90
85	5	412	G	N9-C4-C5	6.41	107.96	105.40
85	5	1330	A	C2-N3-C4	6.41	113.81	110.60
85	5	1729	A	C6-C5-N7	-6.41	127.81	132.30
85	5	1886	A	OP2-P-O3'	6.41	119.30	105.20
85	5	2232	A	N7-C8-N9	-6.41	110.59	113.80
85	5	2872	A	P-O3'-C3'	-6.41	112.01	119.70
85	5	2956	A	N3-C4-C5	6.41	131.29	126.80
85	5	2985	C	N3-C4-N4	-6.41	113.51	118.00
36	1	764	U	C5-C6-N1	6.41	125.90	122.70
36	1	1345	G	N7-C8-N9	6.41	116.31	113.10
36	1	1443	G	C2-N3-C4	-6.41	108.70	111.90
36	1	1948	G	C5-C6-N1	-6.41	108.30	111.50
36	1	2423	U	C5-C4-O4	6.41	129.75	125.90
36	1	2556	C	OP1-P-OP2	6.41	129.21	119.60
36	1	2818	U	N1-C2-O2	-6.41	118.31	122.80
36	1	3263	G	C5-C6-O6	6.41	132.44	128.60
80	6	1779	U	C5-C6-N1	-6.41	119.50	122.70
85	5	247	C	C6-N1-C2	-6.41	117.74	120.30
85	5	298	U	N3-C4-O4	-6.41	114.91	119.40
85	5	333	G	N1-C2-N2	-6.41	110.43	116.20
85	5	707	U	OP2-P-O3'	6.41	119.30	105.20
85	5	974	G	N7-C8-N9	6.41	116.31	113.10
85	5	1256	G	OP1-P-OP2	6.41	129.21	119.60
85	5	1438	U	C6-N1-C2	-6.41	117.16	121.00
85	5	1493	G	N3-C2-N2	-6.41	115.41	119.90
85	5	1661	G	N3-C4-C5	6.41	131.80	128.60
85	5	1681	U	C2-N1-C1'	-6.41	110.01	117.70
85	5	2259	A	C4-C5-C6	6.41	120.20	117.00
85	5	2288	G	OP1-P-OP2	-6.41	109.99	119.60
85	5	3229	G	N3-C2-N2	6.41	124.39	119.90
37	7	84	A	OP1-P-O3'	6.41	119.30	105.20
1	2	1628	G	N1-C2-N3	6.41	127.74	123.90
36	1	115	A	C5-N7-C8	6.41	107.10	103.90
36	1	611	A	N9-C4-C5	6.41	108.36	105.80
36	1	1367	G	C5-C6-N1	-6.41	108.30	111.50
36	1	1807	G	C5-C6-O6	-6.41	124.76	128.60
36	1	1860	G	OP1-P-OP2	-6.41	109.99	119.60
36	1	2874	G	C8-N9-C1'	-6.41	118.67	127.00
36	1	3310	A	OP1-P-OP2	6.41	129.21	119.60
80	6	760	A	C5-C6-N1	-6.41	114.50	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1047	G	N3-C4-C5	6.41	131.80	128.60
85	5	13	A	OP1-P-OP2	6.41	129.21	119.60
85	5	2396	G	N9-C4-C5	6.41	107.96	105.40
1	2	917	C	C2-N1-C1'	6.41	125.85	118.80
1	2	1755	C	C5-C4-N4	6.41	124.68	120.20
36	1	199	A	N7-C8-N9	6.41	117.00	113.80
36	1	313	A	C8-N9-C4	-6.41	103.24	105.80
36	1	407	A	N1-C6-N6	6.41	122.44	118.60
36	1	879	U	O5'-P-OP2	-6.41	99.94	105.70
36	1	1390	A	C4-C5-C6	6.41	120.20	117.00
36	1	1705	U	N1-C2-O2	6.41	127.28	122.80
80	6	69	G	N3-C2-N2	6.41	124.38	119.90
80	6	1041	G	O4'-C1'-N9	6.41	113.32	108.20
80	6	1523	G	N3-C4-C5	-6.41	125.40	128.60
80	6	1675	C	C5-C6-N1	6.41	124.20	121.00
85	5	1065	A	N7-C8-N9	-6.41	110.60	113.80
85	5	1292	C	C5-C4-N4	-6.41	115.72	120.20
1	2	1103	U	N3-C4-O4	-6.40	114.92	119.40
1	2	1244	G	C5-C6-O6	6.40	132.44	128.60
36	1	24	G	N1-C2-N2	-6.40	110.44	116.20
36	1	2365	C	C6-N1-C2	6.40	122.86	120.30
36	1	3034	C	N1-C2-O2	6.40	122.74	118.90
38	4	141	C	N1-C2-O2	6.40	122.74	118.90
85	5	2172	A	O5'-P-OP1	-6.40	99.94	105.70
85	5	3139	A	C6-N1-C2	-6.40	114.76	118.60
85	5	3213	A	N9-C4-C5	6.40	108.36	105.80
1	2	551	G	N7-C8-N9	6.40	116.30	113.10
1	2	603	U	N1-C2-O2	6.40	127.28	122.80
36	1	878	G	N9-C4-C5	6.40	107.96	105.40
36	1	2589	G	N7-C8-N9	6.40	116.30	113.10
36	1	2886	U	N1-C2-N3	6.40	118.74	114.90
36	1	3101	G	N9-C4-C5	6.40	107.96	105.40
80	6	1143	A	C6-C5-N7	6.40	136.78	132.30
80	6	1294	G	N3-C4-C5	6.40	131.80	128.60
85	5	367	A	C4-C5-N7	6.40	113.90	110.70
85	5	680	G	C4-C5-N7	6.40	113.36	110.80
85	5	998	A	C8-N9-C4	-6.40	103.24	105.80
85	5	1403	C	C6-N1-C2	6.40	122.86	120.30
85	5	1862	U	C5-C6-N1	6.40	125.90	122.70
85	5	3366	G	C8-N9-C4	-6.40	103.84	106.40
37	7	91	G	C8-N9-C1'	-6.40	118.68	127.00
1	2	226	A	N1-C6-N6	-6.40	114.76	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1267	C	C4-C5-C6	6.40	120.60	117.40
36	1	202	G	OP1-P-OP2	-6.40	110.00	119.60
36	1	338	A	N3-C4-N9	-6.40	122.28	127.40
36	1	850	U	OP2-P-O3'	6.40	119.28	105.20
36	1	2941	A	O5'-P-OP1	6.40	118.38	110.70
36	1	3241	G	C6-C5-N7	6.40	134.24	130.40
38	4	1	A	C6-C5-N7	-6.40	127.82	132.30
80	6	863	A	C5-N7-C8	-6.40	100.70	103.90
80	6	1115	U	C2-N1-C1'	-6.40	110.02	117.70
80	6	1584	G	C6-C5-N7	-6.40	126.56	130.40
85	5	217	U	C5-C4-O4	-6.40	122.06	125.90
85	5	1353	U	N3-C4-O4	-6.40	114.92	119.40
85	5	1353	U	O4'-C1'-N1	6.40	113.32	108.20
85	5	1431	G	C5-N7-C8	-6.40	101.10	104.30
85	5	1712	G	N7-C8-N9	6.40	116.30	113.10
85	5	1743	G	N9-C4-C5	6.40	107.96	105.40
85	5	2713	U	C4-C5-C6	-6.40	115.86	119.70
85	5	2832	C	OP1-P-OP2	-6.40	110.00	119.60
85	5	2841	G	N7-C8-N9	-6.40	109.90	113.10
85	5	3135	U	C5-C6-N1	-6.40	119.50	122.70
85	5	3220	G	C5-C6-O6	6.40	132.44	128.60
85	5	3308	C	C2-N1-C1'	6.40	125.84	118.80
1	2	1651	G	N3-C4-C5	6.40	131.80	128.60
36	1	604	G	C5-C6-N1	-6.40	108.30	111.50
36	1	1022	U	N1-C2-N3	-6.40	111.06	114.90
36	1	1109	U	OP1-P-O3'	6.40	119.28	105.20
37	3	6	C	O5'-P-OP2	-6.40	99.94	105.70
37	3	6	C	C2-N3-C4	6.40	123.10	119.90
41	L4	318	LEU	CB-CG-CD1	-6.40	100.12	111.00
85	5	188	U	N3-C4-O4	6.40	123.88	119.40
85	5	1367	G	C6-C5-N7	-6.40	126.56	130.40
85	5	2173	U	C5-C6-N1	-6.40	119.50	122.70
38	8	65	A	N1-C6-N6	-6.40	114.76	118.60
38	8	84	C	C2-N3-C4	6.40	123.10	119.90
1	2	691	C	C5-C6-N1	6.40	124.20	121.00
1	2	1296	A	C5-N7-C8	-6.40	100.70	103.90
36	1	582	G	C6-C5-N7	6.40	134.24	130.40
36	1	1187	C	N1-C2-O2	-6.40	115.06	118.90
36	1	1202	A	C8-N9-C4	-6.40	103.24	105.80
36	1	2186	U	N1-C2-O2	6.40	127.28	122.80
36	1	2796	G	OP1-P-OP2	6.40	129.20	119.60
37	3	22	A	C6-N1-C2	-6.40	114.76	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	69	U	O5'-P-OP1	6.40	118.38	110.70
80	6	639	U	O5'-P-OP2	-6.40	99.94	105.70
80	6	1783	C	N3-C4-N4	6.40	122.48	118.00
85	5	915	A	N1-C2-N3	-6.40	126.10	129.30
85	5	1421	G	N1-C2-N2	6.40	121.96	116.20
85	5	1868	G	O5'-P-OP2	6.40	118.38	110.70
85	5	3101	G	C8-N9-C4	6.40	108.96	106.40
38	8	129	C	C6-N1-C2	6.40	122.86	120.30
50	m4	123	LEU	CB-CG-CD2	-6.40	100.12	111.00
1	2	412	A	C5-C6-N1	-6.40	114.50	117.70
1	2	804	U	N3-C4-O4	6.40	123.88	119.40
36	1	580	C	OP1-P-OP2	-6.40	110.01	119.60
36	1	672	A	N9-C4-C5	-6.40	103.24	105.80
36	1	2514	U	C5-C6-N1	-6.40	119.50	122.70
36	1	2804	A	OP2-P-O3'	6.40	119.27	105.20
36	1	2918	G	C4-C5-C6	6.40	122.64	118.80
36	1	3010	U	N3-C2-O2	-6.40	117.72	122.20
85	5	1077	U	N3-C2-O2	6.40	126.68	122.20
85	5	1371	G	C6-N1-C2	-6.40	121.26	125.10
85	5	1602	A	C4-C5-C6	6.40	120.20	117.00
85	5	3034	C	C5-C6-N1	-6.40	117.80	121.00
85	5	3156	U	C5-C6-N1	-6.40	119.50	122.70
38	8	145	U	C5-C4-O4	-6.40	122.06	125.90
1	2	435	C	N3-C4-N4	-6.39	113.52	118.00
1	2	1075	A	C5-N7-C8	-6.39	100.70	103.90
1	2	1102	G	C5-C6-O6	6.39	132.44	128.60
36	1	1331	U	N3-C4-C5	-6.39	110.76	114.60
36	1	1710	C	O5'-P-OP2	-6.39	99.94	105.70
36	1	2777	G	N7-C8-N9	6.39	116.30	113.10
36	1	3014	U	C6-N1-C2	6.39	124.84	121.00
36	1	3143	C	OP1-P-OP2	6.39	129.19	119.60
38	4	58	G	C8-N9-C1'	-6.39	118.69	127.00
80	6	414	C	O5'-P-OP2	-6.39	99.94	105.70
80	6	1479	A	C4-C5-C6	6.39	120.20	117.00
80	6	1763	A	O5'-P-OP2	-6.39	99.94	105.70
85	5	385	A	C5-C6-N1	-6.39	114.50	117.70
85	5	1075	A	C6-N1-C2	-6.39	114.76	118.60
85	5	1320	C	O4'-C1'-N1	-6.39	103.08	108.20
85	5	1366	A	N1-C2-N3	6.39	132.50	129.30
85	5	1936	A	C2-N3-C4	-6.39	107.40	110.60
85	5	2551	U	C4-C5-C6	-6.39	115.86	119.70
37	7	49	G	N3-C4-C5	-6.39	125.40	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	33	A	C6-C5-N7	-6.39	127.82	132.30
1	2	688	U	N3-C2-O2	-6.39	117.72	122.20
36	1	13	A	C6-N1-C2	-6.39	114.77	118.60
36	1	77	A	C5-C6-N1	-6.39	114.50	117.70
36	1	107	A	N3-C4-C5	-6.39	122.33	126.80
36	1	1792	C	O5'-P-OP1	6.39	118.37	110.70
36	1	2153	U	C2-N3-C4	-6.39	123.17	127.00
36	1	2409	G	C6-N1-C2	-6.39	121.26	125.10
80	6	856	A	C6-N1-C2	-6.39	114.77	118.60
80	6	1697	G	C2-N3-C4	6.39	115.10	111.90
80	6	1740	A	C5-C6-N6	6.39	128.81	123.70
85	5	589	A	C2-N3-C4	-6.39	107.40	110.60
85	5	610	G	C2-N3-C4	6.39	115.10	111.90
85	5	1127	G	OP2-P-O3'	6.39	119.26	105.20
85	5	1142	G	N9-C4-C5	6.39	107.96	105.40
85	5	1343	A	N9-C4-C5	-6.39	103.24	105.80
85	5	2132	C	C5-C4-N4	-6.39	115.72	120.20
52	m6	28	LEU	CB-CG-CD1	-6.39	100.13	111.00
36	1	1676	A	N7-C8-N9	6.39	117.00	113.80
36	1	2977	G	O5'-P-OP1	6.39	118.37	110.70
80	6	51	A	C2-N3-C4	-6.39	107.41	110.60
80	6	510	G	C6-C5-N7	-6.39	126.57	130.40
80	6	701	U	C6-N1-C2	-6.39	117.17	121.00
85	5	2257	C	P-O3'-C3'	6.39	127.37	119.70
85	5	2365	C	C5-C4-N4	-6.39	115.73	120.20
1	2	1622	C	N3-C4-C5	-6.39	119.34	121.90
36	1	1362	G	N1-C6-O6	-6.39	116.07	119.90
36	1	2598	G	N1-C2-N3	6.39	127.73	123.90
36	1	2609	A	C4-C5-C6	6.39	120.19	117.00
36	1	3036	G	OP1-P-OP2	6.39	129.19	119.60
36	1	3109	G	O4'-C1'-N9	6.39	113.31	108.20
80	6	992	A	C4-C5-C6	-6.39	113.81	117.00
80	6	1574	G	N3-C4-N9	6.39	129.83	126.00
85	5	306	A	C6-N1-C2	-6.39	114.77	118.60
85	5	419	G	OP1-P-OP2	-6.39	110.02	119.60
85	5	1171	G	C6-N1-C2	-6.39	121.27	125.10
85	5	2732	G	OP1-P-OP2	6.39	129.18	119.60
85	5	2929	C	C2-N1-C1'	6.39	125.83	118.80
40	l3	34	LYS	CD-CE-NZ	6.39	126.39	111.70
47	m0	3	ARG	NE-CZ-NH2	-6.39	117.11	120.30
1	2	1218	C	C2-N3-C4	-6.39	116.71	119.90
1	2	1570	A	O5'-P-OP1	6.39	118.36	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	642	U	N3-C4-O4	-6.39	114.93	119.40
36	1	3007	U	C6-N1-C2	6.39	124.83	121.00
85	5	1343	A	C8-N9-C4	6.39	108.36	105.80
85	5	1869	C	OP2-P-O3'	6.39	119.25	105.20
85	5	3282	U	OP1-P-OP2	6.39	129.18	119.60
1	2	837	U	N3-C4-C5	-6.39	110.77	114.60
1	2	1287	G	N9-C4-C5	6.39	107.95	105.40
36	1	415	G	N3-C4-C5	6.39	131.79	128.60
36	1	740	G	C4-C5-N7	-6.39	108.25	110.80
36	1	1072	G	C8-N9-C4	6.39	108.95	106.40
36	1	1551	C	N3-C2-O2	-6.39	117.43	121.90
36	1	1659	U	C5-C6-N1	6.39	125.89	122.70
36	1	2145	A	C5-N7-C8	-6.39	100.71	103.90
36	1	3024	A	O5'-P-OP1	-6.39	99.95	105.70
80	6	228	G	N7-C8-N9	-6.39	109.91	113.10
80	6	1428	G	C8-N9-C4	-6.39	103.84	106.40
80	6	1433	G	N9-C4-C5	6.39	107.95	105.40
80	6	1624	C	C2-N3-C4	-6.39	116.71	119.90
85	5	222	A	N7-C8-N9	6.39	116.99	113.80
85	5	866	A	OP1-P-OP2	-6.39	110.02	119.60
85	5	1511	U	N3-C2-O2	-6.39	117.73	122.20
85	5	1586	G	O5'-P-OP2	-6.39	99.95	105.70
85	5	1667	A	N3-C4-C5	6.39	131.27	126.80
85	5	2302	G	N1-C2-N3	6.39	127.73	123.90
85	5	2366	C	O5'-P-OP1	-6.39	99.95	105.70
85	5	2737	C	O5'-P-OP1	6.39	118.36	110.70
38	8	23	U	C2-N3-C4	-6.39	123.17	127.00
1	2	1091	G	C6-N1-C2	-6.38	121.27	125.10
36	1	721	G	C5-N7-C8	-6.38	101.11	104.30
36	1	838	G	C2-N3-C4	-6.38	108.71	111.90
36	1	958	C	N1-C2-O2	-6.38	115.07	118.90
36	1	1082	U	N3-C4-O4	-6.38	114.93	119.40
36	1	1190	A	C4-C5-N7	6.38	113.89	110.70
36	1	2118	C	OP1-P-O3'	6.38	119.25	105.20
36	1	2569	A	C2-N3-C4	6.38	113.79	110.60
36	1	2756	C	N1-C2-N3	6.38	123.67	119.20
80	6	1103	U	C4-C5-C6	-6.38	115.87	119.70
80	6	1553	G	C5-C6-O6	-6.38	124.77	128.60
85	5	655	C	C5-C4-N4	-6.38	115.73	120.20
85	5	760	G	C2-N3-C4	-6.38	108.71	111.90
85	5	2340	U	C6-N1-C2	-6.38	117.17	121.00
85	5	2667	A	C6-N1-C2	-6.38	114.77	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2873	U	C4-C5-C6	6.38	123.53	119.70
85	5	2956	A	C6-C5-N7	-6.38	127.83	132.30
85	5	3141	A	N1-C6-N6	6.38	122.43	118.60
85	5	3254	G	N7-C8-N9	6.38	116.29	113.10
85	5	3379	C	N3-C2-O2	6.38	126.37	121.90
1	2	133	U	N3-C2-O2	-6.38	117.73	122.20
36	1	2394	G	N7-C8-N9	-6.38	109.91	113.10
36	1	2659	G	C2-N3-C4	-6.38	108.71	111.90
68	O2	23	ASP	CB-CG-OD1	-6.38	112.56	118.30
80	6	58	U	O4'-C1'-N1	6.38	113.31	108.20
80	6	322	G	O5'-P-OP2	6.38	118.36	110.70
80	6	384	G	C5-N7-C8	-6.38	101.11	104.30
80	6	1112	G	N1-C6-O6	-6.38	116.07	119.90
80	6	1641	C	N3-C2-O2	6.38	126.37	121.90
85	5	1149	G	O5'-P-OP2	-6.38	99.95	105.70
85	5	1648	A	N3-C4-C5	6.38	131.27	126.80
85	5	2354	C	C5-C4-N4	6.38	124.67	120.20
85	5	2522	G	N1-C2-N2	6.38	121.94	116.20
85	5	2732	G	C4-C5-N7	-6.38	108.25	110.80
38	8	60	U	C2-N3-C4	-6.38	123.17	127.00
1	2	13	C	C6-N1-C2	-6.38	117.75	120.30
1	2	1347	G	N1-C2-N2	6.38	121.94	116.20
1	2	1524	G	N3-C4-C5	-6.38	125.41	128.60
36	1	299	G	C2-N3-C4	-6.38	108.71	111.90
36	1	343	U	OP1-P-O3'	6.38	119.24	105.20
36	1	1205	A	N1-C6-N6	6.38	122.43	118.60
36	1	2668	U	C6-N1-C2	6.38	124.83	121.00
36	1	2714	G	N3-C4-N9	-6.38	122.17	126.00
80	6	679	U	OP1-P-OP2	-6.38	110.03	119.60
80	6	938	G	N7-C8-N9	6.38	116.29	113.10
85	5	521	A	N1-C6-N6	-6.38	114.77	118.60
85	5	777	U	C6-N1-C2	-6.38	117.17	121.00
85	5	996	A	OP2-P-O3'	6.38	119.24	105.20
85	5	1012	G	C5-N7-C8	-6.38	101.11	104.30
85	5	2707	C	N1-C2-N3	6.38	123.67	119.20
85	5	2849	C	C5-C4-N4	-6.38	115.73	120.20
85	5	3132	C	OP2-P-O3'	6.38	119.24	105.20
85	5	3172	A	C2-N3-C4	6.38	113.79	110.60
85	5	3308	C	C6-N1-C1'	-6.38	113.14	120.80
37	7	78	U	N3-C4-O4	6.38	123.87	119.40
37	7	98	C	O5'-P-OP1	6.38	118.36	110.70
36	1	26	A	C8-N9-C4	6.38	108.35	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1199	C	O5'-P-OP1	-6.38	99.96	105.70
36	1	1299	U	C5-C6-N1	6.38	125.89	122.70
36	1	1544	G	N3-C4-N9	6.38	129.83	126.00
80	6	915	A	C2-N3-C4	6.38	113.79	110.60
80	6	1082	C	N3-C2-O2	-6.38	117.43	121.90
80	6	1433	G	N1-C6-O6	-6.38	116.07	119.90
80	6	1794	A	C8-N9-C4	6.38	108.35	105.80
85	5	1055	A	N9-C4-C5	6.38	108.35	105.80
85	5	2353	G	N9-C4-C5	-6.38	102.85	105.40
1	2	517	U	O5'-P-OP1	-6.38	99.96	105.70
1	2	792	A	C2-N3-C4	-6.38	107.41	110.60
1	2	1480	U	O5'-P-OP1	-6.38	99.96	105.70
36	1	108	A	C6-N1-C2	-6.38	114.77	118.60
36	1	109	A	OP1-P-O3'	6.38	119.23	105.20
36	1	672	A	O4'-C1'-N9	-6.38	103.10	108.20
36	1	686	G	C5-C6-N1	-6.38	108.31	111.50
36	1	1174	G	N1-C6-O6	6.38	123.73	119.90
36	1	1699	A	O5'-P-OP2	-6.38	99.96	105.70
36	1	3238	G	C5-C6-N1	-6.38	108.31	111.50
80	6	1715	G	N3-C4-C5	-6.38	125.41	128.60
85	5	180	C	C6-N1-C2	-6.38	117.75	120.30
85	5	654	C	N3-C2-O2	6.38	126.36	121.90
85	5	667	C	C5-C6-N1	-6.38	117.81	121.00
85	5	1188	U	C2-N3-C4	-6.38	123.17	127.00
85	5	1351	U	C5-C4-O4	6.38	129.73	125.90
85	5	2123	G	C8-N9-C1'	-6.38	118.71	127.00
85	5	2763	U	N1-C2-O2	-6.38	118.34	122.80
1	2	1543	U	C2-N1-C1'	6.38	125.35	117.70
36	1	781	G	N1-C2-N3	-6.38	120.08	123.90
36	1	1390	A	N1-C6-N6	-6.38	114.77	118.60
36	1	1477	A	N1-C6-N6	6.38	122.43	118.60
36	1	1886	A	N7-C8-N9	6.38	116.99	113.80
36	1	2304	C	O5'-P-OP2	6.38	118.35	110.70
36	1	2685	C	OP1-P-OP2	-6.38	110.03	119.60
36	1	3056	U	N1-C2-N3	6.38	118.72	114.90
37	3	14	U	C5-C4-O4	-6.38	122.07	125.90
38	4	101	U	N1-C2-N3	6.38	118.73	114.90
80	6	278	U	N3-C2-O2	-6.38	117.74	122.20
80	6	1653	C	N3-C4-N4	6.38	122.46	118.00
85	5	176	G	C8-N9-C4	6.38	108.95	106.40
85	5	1103	A	N1-C2-N3	-6.38	126.11	129.30
85	5	1474	A	OP1-P-OP2	-6.38	110.03	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1560	G	N1-C6-O6	6.38	123.73	119.90
85	5	2379	U	N3-C4-C5	-6.38	110.78	114.60
85	5	2894	C	C2-N3-C4	-6.38	116.71	119.90
1	2	190	C	C6-N1-C2	6.38	122.85	120.30
1	2	768	U	N3-C2-O2	-6.38	117.74	122.20
1	2	1541	U	O5'-P-OP2	6.38	118.35	110.70
36	1	392	G	C5-C6-O6	-6.38	124.78	128.60
36	1	1606	U	O5'-P-OP1	-6.38	99.96	105.70
36	1	2247	G	N3-C4-N9	-6.38	122.17	126.00
80	6	1150	G	N1-C6-O6	6.38	123.72	119.90
80	6	1779	U	C4-C5-C6	6.38	123.53	119.70
85	5	1164	G	O5'-P-OP1	-6.38	99.96	105.70
85	5	2242	A	C4-C5-N7	-6.38	107.51	110.70
1	2	36	C	N3-C4-C5	-6.37	119.35	121.90
36	1	1104	G	O4'-C1'-N9	-6.37	103.10	108.20
37	3	82	G	C6-N1-C2	-6.37	121.28	125.10
80	6	86	A	N9-C4-C5	6.37	108.35	105.80
80	6	1612	U	N1-C2-O2	6.37	127.26	122.80
80	6	1623	C	N3-C2-O2	6.37	126.36	121.90
85	5	388	G	OP1-P-O3'	6.37	119.22	105.20
85	5	887	G	C8-N9-C4	-6.37	103.85	106.40
85	5	1508	C	C6-N1-C2	-6.37	117.75	120.30
85	5	1540	U	OP1-P-OP2	-6.37	110.04	119.60
85	5	1602	A	C2-N3-C4	-6.37	107.41	110.60
85	5	1664	G	O5'-P-OP2	-6.37	99.96	105.70
85	5	1780	G	C8-N9-C4	-6.37	103.85	106.40
85	5	2659	G	N3-C2-N2	6.37	124.36	119.90
85	5	3086	A	OP1-P-O3'	6.37	119.22	105.20
38	8	112	U	N3-C4-O4	-6.37	114.94	119.40
1	2	671	G	C5-C6-O6	6.37	132.42	128.60
1	2	952	C	C6-N1-C2	6.37	122.85	120.30
1	2	1034	G	C5-C6-O6	-6.37	124.78	128.60
1	2	1431	G	C5-C6-N1	6.37	114.69	111.50
1	2	1519	G	N1-C2-N2	-6.37	110.47	116.20
1	2	1631	A	C6-N1-C2	-6.37	114.78	118.60
1	2	1653	G	N3-C2-N2	-6.37	115.44	119.90
36	1	816	A	N3-C4-N9	6.37	132.50	127.40
36	1	1862	U	N1-C2-O2	6.37	127.26	122.80
36	1	2136	C	N3-C4-N4	6.37	122.46	118.00
36	1	2962	U	N1-C2-N3	6.37	118.72	114.90
36	1	3219	G	N3-C4-N9	-6.37	122.18	126.00
80	6	105	A	C5-C6-N6	-6.37	118.60	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	348	U	N1-C2-O2	-6.37	118.34	122.80
80	6	398	G	C5-N7-C8	6.37	107.48	104.30
80	6	541	A	C2-N3-C4	6.37	113.79	110.60
80	6	840	U	C6-N1-C2	6.37	124.82	121.00
80	6	1354	G	C6-C5-N7	-6.37	126.58	130.40
85	5	397	A	C8-N9-C4	6.37	108.35	105.80
85	5	864	G	N9-C4-C5	-6.37	102.85	105.40
85	5	1466	G	N1-C2-N3	6.37	127.72	123.90
85	5	2339	C	O5'-P-OP2	-6.37	99.97	105.70
85	5	2509	U	C5-C4-O4	6.37	129.72	125.90
85	5	2523	A	N3-C4-C5	-6.37	122.34	126.80
85	5	2608	G	C5-C6-O6	-6.37	124.78	128.60
85	5	2636	A	O5'-P-OP2	6.37	118.35	110.70
85	5	2828	G	C5-C6-N1	6.37	114.69	111.50
85	5	2957	G	N1-C2-N3	6.37	127.72	123.90
85	5	3092	C	C6-N1-C2	6.37	122.85	120.30
38	8	66	A	O5'-P-OP2	-6.37	99.97	105.70
38	8	112	U	N1-C2-N3	-6.37	111.08	114.90
36	1	439	C	OP1-P-OP2	6.37	129.16	119.60
36	1	499	G	C2-N3-C4	-6.37	108.72	111.90
36	1	632	G	N1-C6-O6	6.37	123.72	119.90
36	1	940	G	C6-C5-N7	6.37	134.22	130.40
36	1	1549	U	C5-C6-N1	-6.37	119.52	122.70
36	1	1662	G	N7-C8-N9	-6.37	109.92	113.10
80	6	371	G	OP1-P-OP2	-6.37	110.04	119.60
80	6	437	A	C4-C5-C6	6.37	120.19	117.00
85	5	420	G	C2-N3-C4	6.37	115.08	111.90
85	5	585	A	O5'-P-OP2	6.37	118.34	110.70
85	5	824	C	OP1-P-OP2	6.37	129.16	119.60
85	5	2359	C	N3-C4-C5	6.37	124.45	121.90
85	5	2742	C	C2-N3-C4	-6.37	116.72	119.90
85	5	3021	A	C2-N3-C4	-6.37	107.42	110.60
85	5	3031	G	C5-C6-O6	-6.37	124.78	128.60
37	7	28	C	C4-C5-C6	6.37	120.58	117.40
1	2	1218	C	N3-C4-C5	6.37	124.45	121.90
36	1	83	U	N1-C2-N3	6.37	118.72	114.90
36	1	137	G	C4-C5-N7	6.37	113.35	110.80
36	1	376	G	C5-C6-O6	6.37	132.42	128.60
36	1	778	U	N1-C2-N3	6.37	118.72	114.90
36	1	1078	U	N3-C4-C5	-6.37	110.78	114.60
36	1	1337	A	C6-N1-C2	-6.37	114.78	118.60
36	1	1435	A	C5-C6-N1	6.37	120.89	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2218	G	C5-N7-C8	6.37	107.48	104.30
36	1	2398	A	C4-C5-N7	-6.37	107.52	110.70
36	1	3125	U	N3-C4-C5	-6.37	110.78	114.60
80	6	689	G	C4-C5-N7	-6.37	108.25	110.80
85	5	32	U	N3-C4-O4	-6.37	114.94	119.40
85	5	114	A	C6-C5-N7	-6.37	127.84	132.30
85	5	115	A	C5-N7-C8	-6.37	100.72	103.90
85	5	621	A	C8-N9-C4	6.37	108.35	105.80
85	5	677	A	N1-C6-N6	-6.37	114.78	118.60
85	5	1096	U	C5-C6-N1	-6.37	119.52	122.70
85	5	1404	G	C5-N7-C8	-6.37	101.12	104.30
85	5	1918	C	C2-N3-C4	6.37	123.08	119.90
85	5	2118	C	OP1-P-O3'	6.37	119.21	105.20
85	5	2337	C	N1-C2-N3	6.37	123.66	119.20
85	5	3221	C	N3-C4-N4	6.37	122.46	118.00
1	2	1363	U	N3-C2-O2	-6.37	117.74	122.20
36	1	4	U	C2-N3-C4	6.37	130.82	127.00
36	1	156	G	N3-C4-N9	6.37	129.82	126.00
36	1	300	G	N1-C6-O6	-6.37	116.08	119.90
36	1	1509	A	N7-C8-N9	6.37	116.98	113.80
36	1	2650	U	C2-N3-C4	-6.37	123.18	127.00
38	4	64	U	C5-C4-O4	-6.37	122.08	125.90
80	6	1326	A	C6-N1-C2	6.37	122.42	118.60
85	5	423	A	C5-C6-N1	6.37	120.88	117.70
85	5	1195	A	N3-C4-N9	-6.37	122.31	127.40
85	5	1611	G	OP1-P-OP2	-6.37	110.05	119.60
85	5	2292	U	N1-C2-O2	6.37	127.26	122.80
85	5	3147	G	OP2-P-O3'	6.37	119.21	105.20
1	2	561	G	C5-C6-O6	6.37	132.42	128.60
1	2	1481	G	N3-C4-C5	-6.37	125.42	128.60
1	2	1727	A	C4-C5-C6	6.37	120.18	117.00
36	1	172	G	C2-N3-C4	6.37	115.08	111.90
36	1	256	G	OP1-P-O3'	6.37	119.20	105.20
36	1	577	C	N1-C2-N3	6.37	123.66	119.20
36	1	1398	U	C6-N1-C2	-6.37	117.18	121.00
36	1	3085	G	C4-C5-C6	6.37	122.62	118.80
80	6	997	G	O5'-P-OP1	-6.37	99.97	105.70
80	6	1368	G	N3-C4-C5	6.37	131.78	128.60
85	5	858	A	C4-C5-N7	6.37	113.88	110.70
85	5	1297	C	OP2-P-O3'	6.37	119.20	105.20
85	5	1655	G	C8-N9-C4	6.37	108.95	106.40
85	5	2950	G	C5-C6-N1	-6.37	108.32	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3068	U	N1-C2-N3	6.37	118.72	114.90
85	5	3300	U	N1-C2-N3	6.37	118.72	114.90
1	2	40	A	C4-C5-N7	-6.36	107.52	110.70
1	2	589	C	C6-N1-C2	6.36	122.84	120.30
1	2	1215	U	OP1-P-O3'	6.36	119.20	105.20
1	2	1588	G	N3-C4-N9	-6.36	122.18	126.00
36	1	48	A	C5-C6-N1	-6.36	114.52	117.70
36	1	210	U	OP1-P-O3'	6.36	119.20	105.20
36	1	1471	U	N3-C4-C5	6.36	118.42	114.60
36	1	2403	G	C2-N3-C4	-6.36	108.72	111.90
36	1	2741	C	C6-N1-C2	6.36	122.84	120.30
36	1	2915	U	C4-C5-C6	6.36	123.52	119.70
38	4	37	A	OP1-P-OP2	-6.36	110.05	119.60
59	N3	25	CYS	CA-CB-SG	-6.36	102.55	114.00
80	6	838	G	O5'-P-OP1	-6.36	99.97	105.70
80	6	1002	G	N3-C4-N9	-6.36	122.18	126.00
85	5	1195	A	C5-C6-N1	-6.36	114.52	117.70
85	5	1928	G	C2-N3-C4	-6.36	108.72	111.90
85	5	3106	A	N7-C8-N9	6.36	116.98	113.80
85	5	3138	U	N3-C2-O2	6.36	126.65	122.20
36	1	1143	A	C4-C5-N7	-6.36	107.52	110.70
36	1	2412	G	C5-N7-C8	6.36	107.48	104.30
36	1	3055	U	C6-N1-C2	6.36	124.82	121.00
80	6	157	A	N7-C8-N9	-6.36	110.62	113.80
85	5	234	G	N1-C2-N2	6.36	121.93	116.20
85	5	1245	A	N1-C6-N6	-6.36	114.78	118.60
85	5	2693	C	C6-N1-C2	6.36	122.84	120.30
85	5	2712	U	C5-C6-N1	6.36	125.88	122.70
85	5	2787	G	C5-N7-C8	-6.36	101.12	104.30
85	5	3128	G	C4-C5-N7	6.36	113.34	110.80
1	2	96	G	C8-N9-C4	-6.36	103.86	106.40
1	2	1355	U	C5-C6-N1	6.36	125.88	122.70
1	2	1399	G	N1-C6-O6	6.36	123.72	119.90
36	1	880	G	C2-N3-C4	-6.36	108.72	111.90
36	1	1508	C	N1-C2-O2	-6.36	115.08	118.90
36	1	2813	A	C8-N9-C4	6.36	108.34	105.80
36	1	2838	A	C2-N3-C4	-6.36	107.42	110.60
36	1	3234	A	N9-C4-C5	-6.36	103.26	105.80
36	1	3258	U	N3-C4-O4	6.36	123.85	119.40
80	6	1122	G	C8-N9-C1'	-6.36	118.73	127.00
80	6	1142	A	N1-C2-N3	6.36	132.48	129.30
85	5	710	A	C2-N3-C4	-6.36	107.42	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1415	U	C2-N1-C1'	6.36	125.33	117.70
85	5	1725	C	C2-N3-C4	-6.36	116.72	119.90
85	5	2808	A	C5-C6-N6	6.36	128.79	123.70
85	5	2814	G	C6-C5-N7	-6.36	126.58	130.40
85	5	3019	U	C5-C4-O4	6.36	129.72	125.90
85	5	3109	G	C5-N7-C8	-6.36	101.12	104.30
85	5	3303	G	C4-C5-N7	6.36	113.34	110.80
36	1	78	U	O5'-P-OP1	-6.36	99.98	105.70
36	1	1165	A	C5-C6-N6	6.36	128.79	123.70
36	1	1834	U	N1-C2-N3	6.36	118.72	114.90
36	1	2118	C	N1-C2-N3	6.36	123.65	119.20
36	1	2354	C	C6-N1-C2	-6.36	117.76	120.30
36	1	2659	G	N3-C4-C5	6.36	131.78	128.60
36	1	2715	A	N7-C8-N9	-6.36	110.62	113.80
80	6	1079	U	N3-C4-C5	6.36	118.42	114.60
80	6	1184	A	C2-N3-C4	-6.36	107.42	110.60
80	6	1479	A	OP1-P-OP2	-6.36	110.06	119.60
85	5	529	A	C2-N3-C4	-6.36	107.42	110.60
85	5	1641	U	N1-C2-N3	6.36	118.72	114.90
85	5	2910	A	C6-N1-C2	-6.36	114.78	118.60
85	5	3114	A	C5-C6-N1	-6.36	114.52	117.70
1	2	131	C	C5-C6-N1	6.36	124.18	121.00
1	2	932	C	C6-N1-C2	-6.36	117.76	120.30
36	1	60	A	C2-N3-C4	-6.36	107.42	110.60
36	1	290	G	N3-C2-N2	-6.36	115.45	119.90
36	1	304	G	N1-C2-N3	6.36	127.72	123.90
36	1	967	A	C8-N9-C4	-6.36	103.26	105.80
36	1	2433	U	N3-C4-C5	6.36	118.42	114.60
36	1	3190	C	N3-C4-C5	-6.36	119.36	121.90
75	O9	30	ARG	NE-CZ-NH2	-6.36	117.12	120.30
80	6	1139	A	C5-N7-C8	6.36	107.08	103.90
80	6	1468	U	N3-C4-C5	-6.36	110.79	114.60
85	5	377	A	C5-N7-C8	-6.36	100.72	103.90
85	5	599	C	C4-C5-C6	6.36	120.58	117.40
85	5	779	G	C5-N7-C8	-6.36	101.12	104.30
85	5	1178	G	N1-C2-N2	-6.36	110.48	116.20
85	5	1180	A	OP2-P-O3'	-6.36	91.22	105.20
85	5	1392	G	N3-C4-N9	6.36	129.81	126.00
85	5	1509	A	C6-C5-N7	6.36	136.75	132.30
85	5	2274	U	C5-C6-N1	-6.36	119.52	122.70
85	5	2937	G	C5-C6-N1	-6.36	108.32	111.50
85	5	3046	A	N7-C8-N9	-6.36	110.62	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	99	C	O5'-P-OP2	-6.36	99.98	105.70
1	2	46	A	O5'-P-OP2	-6.36	99.98	105.70
1	2	144	U	N1-C2-N3	6.36	118.71	114.90
1	2	1432	U	C5-C4-O4	-6.36	122.09	125.90
1	2	1446	C	OP1-P-OP2	-6.36	110.07	119.60
36	1	701	G	C8-N9-C4	6.36	108.94	106.40
36	1	803	C	O5'-P-OP1	6.36	118.33	110.70
36	1	1150	A	C5-C6-N1	6.36	120.88	117.70
36	1	1652	G	N3-C4-C5	6.36	131.78	128.60
36	1	2236	G	C4-C5-C6	6.36	122.61	118.80
36	1	2612	U	N1-C2-N3	6.36	118.71	114.90
36	1	2680	A	C5-N7-C8	-6.36	100.72	103.90
36	1	3210	A	C6-N1-C2	-6.36	114.79	118.60
37	3	43	U	C2-N3-C4	-6.36	123.19	127.00
62	N6	57	LEU	CA-CB-CG	6.36	129.92	115.30
80	6	759	U	N3-C4-O4	-6.36	114.95	119.40
80	6	1295	G	OP2-P-O3'	6.36	119.18	105.20
80	6	1749	A	N3-C4-C5	6.36	131.25	126.80
85	5	210	U	OP1-P-OP2	6.36	129.13	119.60
85	5	1750	A	N7-C8-N9	6.36	116.98	113.80
85	5	1800	A	C5-C6-N1	6.36	120.88	117.70
85	5	2142	A	OP1-P-O3'	6.36	119.18	105.20
85	5	2337	C	C5-C6-N1	-6.36	117.82	121.00
85	5	2745	G	N3-C4-N9	-6.36	122.19	126.00
85	5	3344	A	OP1-P-OP2	6.36	129.13	119.60
38	8	29	U	OP2-P-O3'	6.36	119.18	105.20
36	1	709	A	N3-C4-C5	-6.35	122.35	126.80
36	1	760	G	N1-C2-N3	6.35	127.71	123.90
36	1	1899	G	N1-C2-N3	6.35	127.71	123.90
85	5	1519	G	N9-C4-C5	-6.35	102.86	105.40
85	5	1863	G	C2-N3-C4	-6.35	108.72	111.90
85	5	2640	A	C4-C5-N7	6.35	113.88	110.70
85	5	2735	U	N3-C2-O2	-6.35	117.75	122.20
37	7	31	U	O5'-P-OP1	-6.35	99.98	105.70
1	2	297	U	N1-C2-O2	6.35	127.25	122.80
1	2	920	C	C6-N1-C2	-6.35	117.76	120.30
1	2	924	A	C8-N9-C4	-6.35	103.26	105.80
36	1	160	G	N7-C8-N9	-6.35	109.92	113.10
36	1	824	C	C2-N1-C1'	6.35	125.79	118.80
36	1	2385	G	C6-C5-N7	6.35	134.21	130.40
36	1	2525	G	O5'-P-OP1	-6.35	99.98	105.70
37	3	3	U	C4-C5-C6	6.35	123.51	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	244	A	C5-C6-N1	-6.35	114.52	117.70
80	6	1406	A	C8-N9-C4	-6.35	103.26	105.80
85	5	826	G	C2-N3-C4	-6.35	108.72	111.90
85	5	1054	A	C8-N9-C4	6.35	108.34	105.80
85	5	2639	G	N7-C8-N9	6.35	116.28	113.10
85	5	3185	U	C5-C4-O4	-6.35	122.09	125.90
85	5	3370	A	C2-N3-C4	6.35	113.78	110.60
38	8	72	A	N3-C4-C5	6.35	131.25	126.80
38	8	132	G	OP1-P-OP2	6.35	129.13	119.60
1	2	234	G	C4-C5-N7	-6.35	108.26	110.80
1	2	596	C	OP1-P-OP2	-6.35	110.07	119.60
36	1	781	G	N3-C2-N2	-6.35	115.45	119.90
36	1	943	U	N1-C2-O2	-6.35	118.36	122.80
36	1	2220	A	O5'-P-OP2	6.35	118.32	110.70
41	L4	309	ARG	NE-CZ-NH2	-6.35	117.12	120.30
80	6	155	U	N3-C2-O2	-6.35	117.75	122.20
80	6	876	G	C5-C6-N1	6.35	114.67	111.50
85	5	258	G	C4-C5-C6	6.35	122.61	118.80
85	5	1057	A	C6-N1-C2	-6.35	114.79	118.60
85	5	1135	A	C2-N3-C4	-6.35	107.42	110.60
85	5	2623	G	C5-C6-N1	6.35	114.68	111.50
1	2	131	C	O5'-P-OP2	-6.35	99.98	105.70
1	2	709	C	C5-C6-N1	-6.35	117.83	121.00
36	1	73	C	N3-C4-N4	6.35	122.44	118.00
36	1	333	G	OP1-P-OP2	-6.35	110.08	119.60
36	1	511	G	O5'-P-OP1	-6.35	99.99	105.70
36	1	2127	U	C4-C5-C6	6.35	123.51	119.70
36	1	2318	U	N3-C4-O4	6.35	123.84	119.40
36	1	2820	A	C8-N9-C4	-6.35	103.26	105.80
37	3	43	U	C4-C5-C6	6.35	123.51	119.70
80	6	95	G	N3-C4-C5	-6.35	125.42	128.60
80	6	971	A	N1-C6-N6	-6.35	114.79	118.60
85	5	1072	G	C4-N9-C1'	6.35	134.75	126.50
85	5	1560	G	N1-C2-N2	6.35	121.92	116.20
85	5	1604	G	C6-C5-N7	6.35	134.21	130.40
85	5	1884	A	OP2-P-O3'	6.35	119.17	105.20
85	5	2315	G	C2-N3-C4	-6.35	108.73	111.90
85	5	2738	A	C8-N9-C4	-6.35	103.26	105.80
1	2	230	C	C6-N1-C2	6.35	122.84	120.30
1	2	1094	G	O5'-P-OP2	-6.35	99.99	105.70
1	2	1201	G	N3-C2-N2	-6.35	115.46	119.90
1	2	1390	U	N3-C2-O2	6.35	126.64	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1394	A	C5-C6-N1	6.35	120.87	117.70
36	1	673	U	N1-C2-N3	-6.35	111.09	114.90
36	1	996	A	OP1-P-O3'	-6.35	91.24	105.20
36	1	1382	G	N1-C2-N3	6.35	127.71	123.90
36	1	1393	A	N1-C2-N3	6.35	132.47	129.30
36	1	1441	G	N1-C6-O6	-6.35	116.09	119.90
36	1	2534	G	N7-C8-N9	6.35	116.27	113.10
36	1	3243	A	N1-C6-N6	-6.35	114.79	118.60
37	3	96	U	OP2-P-O3'	6.35	119.16	105.20
38	4	23	U	N3-C2-O2	-6.35	117.76	122.20
80	6	256	A	C8-N9-C4	-6.35	103.26	105.80
80	6	371	G	C4-C5-C6	6.35	122.61	118.80
80	6	1004	U	OP1-P-O3'	6.35	119.17	105.20
80	6	1430	U	N1-C2-N3	-6.35	111.09	114.90
80	6	1550	A	C2-N3-C4	-6.35	107.43	110.60
80	6	1657	U	N1-C2-O2	6.35	127.24	122.80
85	5	276	U	N3-C2-O2	6.35	126.64	122.20
85	5	855	U	C2-N3-C4	6.35	130.81	127.00
85	5	1213	G	C6-N1-C2	-6.35	121.29	125.10
85	5	2663	G	C4-N9-C1'	6.35	134.75	126.50
85	5	3223	A	N3-C4-C5	-6.35	122.36	126.80
85	5	3266	G	C5-N7-C8	6.35	107.47	104.30
37	7	106	U	N3-C4-O4	6.35	123.84	119.40
36	1	1734	G	N7-C8-N9	-6.35	109.93	113.10
36	1	1859	A	N1-C6-N6	-6.35	114.79	118.60
36	1	2177	G	C6-N1-C2	-6.35	121.29	125.10
36	1	3290	G	N1-C6-O6	6.35	123.71	119.90
80	6	425	A	C4-C5-N7	6.35	113.87	110.70
80	6	1592	A	C6-C5-N7	-6.35	127.86	132.30
85	5	2435	G	O5'-P-OP2	6.35	118.31	110.70
85	5	2782	U	C5-C6-N1	-6.35	119.53	122.70
85	5	2886	U	O5'-P-OP2	-6.35	99.99	105.70
1	2	1029	G	N7-C8-N9	-6.34	109.93	113.10
1	2	1375	U	C5-C6-N1	-6.34	119.53	122.70
1	2	1484	C	N1-C2-O2	-6.34	115.09	118.90
36	1	653	A	OP1-P-OP2	-6.34	110.08	119.60
36	1	727	G	C4-N9-C1'	6.34	134.75	126.50
36	1	796	U	C2-N1-C1'	6.34	125.31	117.70
36	1	2212	C	C6-N1-C2	6.34	122.84	120.30
36	1	2240	G	OP1-P-O3'	6.34	119.16	105.20
36	1	2918	G	N1-C2-N2	-6.34	110.49	116.20
36	1	2996	U	C5-C4-O4	-6.34	122.09	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3243	A	C5-N7-C8	-6.34	100.73	103.90
80	6	64	U	N3-C4-O4	-6.34	114.96	119.40
80	6	1315	U	C5-C6-N1	-6.34	119.53	122.70
85	5	76	G	N7-C8-N9	6.34	116.27	113.10
85	5	153	U	C5-C6-N1	-6.34	119.53	122.70
85	5	535	G	N3-C2-N2	6.34	124.34	119.90
85	5	697	A	N1-C2-N3	6.34	132.47	129.30
85	5	1095	U	C6-N1-C2	-6.34	117.19	121.00
85	5	2184	U	OP2-P-O3'	6.34	119.16	105.20
85	5	2875	U	C2-N1-C1'	-6.34	110.09	117.70
85	5	3189	G	N1-C6-O6	6.34	123.71	119.90
85	5	3333	G	N1-C2-N2	-6.34	110.49	116.20
38	8	83	C	OP1-P-OP2	-6.34	110.08	119.60
36	1	192	C	O5'-P-OP2	-6.34	99.99	105.70
36	1	1924	U	N3-C4-O4	-6.34	114.96	119.40
36	1	2199	G	C2-N3-C4	-6.34	108.73	111.90
36	1	2231	C	N1-C2-O2	-6.34	115.09	118.90
36	1	2342	U	N1-C2-O2	-6.34	118.36	122.80
36	1	2869	U	C4-C5-C6	6.34	123.51	119.70
36	1	3031	G	O5'-P-OP1	6.34	118.31	110.70
80	6	965	U	N3-C2-O2	-6.34	117.76	122.20
80	6	1162	C	C5-C6-N1	-6.34	117.83	121.00
85	5	60	A	N3-C4-C5	-6.34	122.36	126.80
85	5	769	G	N1-C2-N3	6.34	127.71	123.90
85	5	1194	G	N1-C6-O6	-6.34	116.09	119.90
85	5	2162	U	C4-C5-C6	6.34	123.51	119.70
85	5	2264	U	C5-C6-N1	6.34	125.87	122.70
85	5	2785	A	OP1-P-OP2	-6.34	110.09	119.60
85	5	2970	C	C2-N3-C4	-6.34	116.73	119.90
88	n4	48	ARG	NE-CZ-NH1	6.34	123.47	120.30
1	2	1111	C	N3-C4-N4	-6.34	113.56	118.00
1	2	1469	G	C4-C5-N7	6.34	113.34	110.80
36	1	333	G	C4-C5-N7	6.34	113.34	110.80
36	1	808	A	N3-C4-N9	6.34	132.47	127.40
36	1	852	U	O5'-P-OP1	6.34	118.31	110.70
36	1	901	G	N1-C2-N2	6.34	121.91	116.20
36	1	996	A	OP2-P-O3'	6.34	119.15	105.20
36	1	1904	C	N3-C4-C5	-6.34	119.36	121.90
36	1	2207	A	O5'-P-OP2	6.34	118.31	110.70
36	1	2279	A	C5-N7-C8	-6.34	100.73	103.90
36	1	2588	U	OP1-P-OP2	-6.34	110.09	119.60
36	1	2700	G	N3-C4-N9	6.34	129.81	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2744	U	N1-C2-O2	-6.34	118.36	122.80
36	1	2986	U	OP2-P-O3'	6.34	119.15	105.20
80	6	30	G	OP1-P-OP2	-6.34	110.09	119.60
80	6	310	C	N1-C2-O2	-6.34	115.09	118.90
80	6	813	U	O5'-P-OP2	-6.34	99.99	105.70
80	6	1712	A	C5-C6-N1	-6.34	114.53	117.70
85	5	123	A	N7-C8-N9	-6.34	110.63	113.80
85	5	1583	A	N1-C2-N3	6.34	132.47	129.30
85	5	1676	A	OP1-P-OP2	-6.34	110.09	119.60
85	5	3316	A	C4-C5-N7	-6.34	107.53	110.70
1	2	8	U	N1-C2-N3	-6.34	111.10	114.90
1	2	169	A	C5-N7-C8	-6.34	100.73	103.90
1	2	449	C	C5-C6-N1	6.34	124.17	121.00
1	2	863	C	C5-C6-N1	6.34	124.17	121.00
1	2	1411	G	C5-C6-N1	-6.34	108.33	111.50
36	1	949	C	N1-C2-N3	6.34	123.64	119.20
36	1	1075	A	C4-C5-N7	6.34	113.87	110.70
36	1	1776	G	C8-N9-C4	-6.34	103.86	106.40
36	1	2681	U	C2-N3-C4	-6.34	123.20	127.00
36	1	2876	C	N3-C2-O2	6.34	126.34	121.90
36	1	3204	C	C4-C5-C6	-6.34	114.23	117.40
38	4	142	C	N3-C4-C5	-6.34	119.36	121.90
70	O4	84	CYS	CA-CB-SG	6.34	125.41	114.00
80	6	333	A	C6-N1-C2	-6.34	114.80	118.60
80	6	384	G	C5-C6-O6	-6.34	124.80	128.60
80	6	894	U	N3-C4-C5	6.34	118.40	114.60
80	6	1777	G	C8-N9-C4	-6.34	103.86	106.40
85	5	726	G	C5-N7-C8	-6.34	101.13	104.30
85	5	1672	U	C2-N1-C1'	-6.34	110.09	117.70
85	5	2167	A	C6-N1-C2	-6.34	114.80	118.60
85	5	2307	G	C2-N3-C4	6.34	115.07	111.90
85	5	3204	C	O5'-P-OP2	6.34	118.31	110.70
85	5	3266	G	C2-N3-C4	6.34	115.07	111.90
85	5	3355	U	N3-C4-O4	-6.34	114.96	119.40
37	7	72	A	N3-C4-N9	6.34	132.47	127.40
38	8	78	G	C4-C5-N7	6.34	113.34	110.80
36	1	86	G	C8-N9-C4	-6.34	103.86	106.40
36	1	1662	G	C8-N9-C1'	-6.34	118.76	127.00
36	1	2600	C	O5'-P-OP2	-6.34	100.00	105.70
36	1	3159	C	N3-C4-C5	-6.34	119.36	121.90
80	6	228	G	C4-C5-N7	-6.34	108.27	110.80
80	6	1372	U	N1-C2-N3	6.34	118.70	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2127	U	C5-C6-N1	6.34	125.87	122.70
1	2	438	A	C8-N9-C4	-6.34	103.27	105.80
1	2	942	U	C2-N1-C1'	6.34	125.30	117.70
1	2	1382	C	N3-C2-O2	6.34	126.34	121.90
36	1	57	A	C4-C5-C6	6.34	120.17	117.00
36	1	626	U	O5'-P-OP2	6.34	118.30	110.70
36	1	787	G	N3-C2-N2	-6.34	115.47	119.90
36	1	1183	C	OP1-P-OP2	-6.34	110.10	119.60
36	1	1625	A	OP1-P-OP2	6.34	129.10	119.60
36	1	2165	G	N9-C4-C5	6.34	107.94	105.40
36	1	2199	G	N1-C6-O6	6.34	123.70	119.90
36	1	2709	C	N3-C4-C5	6.34	124.44	121.90
36	1	3178	A	N9-C4-C5	-6.34	103.27	105.80
36	1	3219	G	C4-C5-C6	6.34	122.60	118.80
80	6	43	A	C2-N3-C4	6.34	113.77	110.60
80	6	277	U	N1-C2-N3	-6.34	111.10	114.90
80	6	1310	U	OP2-P-O3'	6.34	119.14	105.20
80	6	1341	A	C8-N9-C4	-6.34	103.27	105.80
80	6	1488	G	N3-C4-C5	-6.34	125.43	128.60
85	5	41	G	OP1-P-O3'	-6.34	91.26	105.20
85	5	220	G	N1-C6-O6	-6.34	116.10	119.90
85	5	226	C	C2-N3-C4	6.34	123.07	119.90
85	5	1276	U	C5-C6-N1	-6.34	119.53	122.70
85	5	1375	G	N9-C4-C5	6.34	107.94	105.40
85	5	1426	C	C5-C4-N4	-6.34	115.77	120.20
85	5	2228	A	C6-N1-C2	-6.34	114.80	118.60
85	5	2270	A	N9-C4-C5	-6.34	103.27	105.80
85	5	2583	C	N1-C2-O2	-6.34	115.10	118.90
85	5	2746	A	C5-C6-N1	-6.34	114.53	117.70
85	5	2860	U	C4-C5-C6	6.34	123.50	119.70
85	5	2891	U	C6-N1-C2	-6.34	117.20	121.00
85	5	3199	G	N1-C2-N3	6.34	127.70	123.90
85	5	3260	G	O5'-P-OP2	-6.34	100.00	105.70
85	5	3378	C	OP2-P-O3'	6.34	119.14	105.20
36	1	134	U	C4-C5-C6	-6.33	115.90	119.70
36	1	2937	G	C5-C6-O6	6.33	132.40	128.60
36	1	3296	A	N1-C6-N6	6.33	122.40	118.60
37	3	22	A	O5'-P-OP2	-6.33	100.00	105.70
85	5	579	G	C6-C5-N7	6.33	134.20	130.40
85	5	1392	G	C5-C6-N1	6.33	114.67	111.50
85	5	1466	G	C6-C5-N7	-6.33	126.60	130.40
85	5	2553	U	N3-C2-O2	-6.33	117.77	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2840	C	C6-N1-C2	6.33	122.83	120.30
1	2	724	C	N1-C2-O2	6.33	122.70	118.90
1	2	1657	C	C5-C4-N4	-6.33	115.77	120.20
36	1	258	G	N1-C6-O6	-6.33	116.10	119.90
36	1	902	G	N7-C8-N9	6.33	116.27	113.10
36	1	918	C	C6-N1-C1'	6.33	128.40	120.80
36	1	1379	G	C8-N9-C1'	-6.33	118.77	127.00
36	1	2398	A	C5-C6-N1	6.33	120.87	117.70
36	1	2687	G	C4-C5-N7	-6.33	108.27	110.80
36	1	3297	U	N1-C2-N3	6.33	118.70	114.90
80	6	95	G	C5-C6-N1	6.33	114.67	111.50
80	6	346	G	OP1-P-OP2	-6.33	110.10	119.60
80	6	917	U	N1-C2-O2	-6.33	118.37	122.80
85	5	101	G	C5-N7-C8	-6.33	101.13	104.30
85	5	103	G	C5-N7-C8	6.33	107.47	104.30
85	5	266	A	C5-C6-N6	6.33	128.77	123.70
85	5	498	A	C6-N1-C2	-6.33	114.80	118.60
85	5	879	U	C5-C4-O4	6.33	129.70	125.90
85	5	1007	U	C2-N3-C4	-6.33	123.20	127.00
85	5	1048	A	N1-C2-N3	-6.33	126.13	129.30
85	5	1509	A	C4-C5-C6	-6.33	113.83	117.00
85	5	2208	A	C4-N9-C1'	6.33	137.70	126.30
85	5	2661	G	N3-C4-N9	6.33	129.80	126.00
85	5	3072	C	C2-N3-C4	6.33	123.07	119.90
85	5	3391	A	OP2-P-O3'	6.33	119.13	105.20
38	8	14	C	O5'-P-OP2	-6.33	100.00	105.70
38	8	107	G	N1-C6-O6	6.33	123.70	119.90
49	m3	148	ALA	C-N-CA	-6.33	105.87	121.70
1	2	1265	U	C5-C6-N1	-6.33	119.53	122.70
36	1	941	G	N1-C2-N2	-6.33	110.50	116.20
36	1	1393	A	C6-N1-C2	-6.33	114.80	118.60
36	1	1789	G	N1-C2-N3	-6.33	120.10	123.90
36	1	2402	A	OP2-P-O3'	6.33	119.13	105.20
36	1	2727	A	O4'-C1'-N9	-6.33	103.14	108.20
36	1	3102	G	N3-C4-C5	-6.33	125.44	128.60
36	1	3247	G	N1-C2-N3	6.33	127.70	123.90
80	6	272	U	N3-C4-O4	6.33	123.83	119.40
80	6	601	A	N7-C8-N9	6.33	116.97	113.80
85	5	200	C	O5'-P-OP1	-6.33	100.00	105.70
85	5	231	G	C5-C6-O6	-6.33	124.80	128.60
85	5	647	A	C5-N7-C8	6.33	107.07	103.90
85	5	703	G	N1-C2-N3	6.33	127.70	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1165	A	C4-C5-C6	6.33	120.17	117.00
85	5	1246	G	O5'-P-OP2	6.33	118.30	110.70
85	5	1289	G	C5-N7-C8	-6.33	101.13	104.30
85	5	1673	G	N9-C4-C5	6.33	107.93	105.40
85	5	2560	C	C5-C6-N1	6.33	124.17	121.00
1	2	165	G	C6-C5-N7	-6.33	126.60	130.40
36	1	1291	A	C2-N3-C4	-6.33	107.44	110.60
85	5	869	G	OP1-P-OP2	-6.33	110.10	119.60
85	5	939	U	N3-C4-O4	6.33	123.83	119.40
85	5	1200	A	C5-C6-N6	-6.33	118.64	123.70
85	5	1706	C	C2-N1-C1'	6.33	125.76	118.80
85	5	1784	G	C5-C6-O6	6.33	132.40	128.60
85	5	2861	U	OP1-P-OP2	6.33	129.09	119.60
1	2	21	U	O5'-P-OP2	-6.33	100.00	105.70
1	2	620	A	C8-N9-C4	-6.33	103.27	105.80
1	2	1163	C	N1-C2-O2	6.33	122.70	118.90
36	1	21	G	C6-N1-C2	-6.33	121.30	125.10
36	1	993	G	OP1-P-OP2	6.33	129.09	119.60
36	1	1324	U	C2-N3-C4	-6.33	123.20	127.00
36	1	2297	U	C4-C5-C6	6.33	123.50	119.70
36	1	2534	G	N3-C4-C5	-6.33	125.44	128.60
80	6	701	U	C5-C6-N1	6.33	125.86	122.70
80	6	1018	U	C6-N1-C2	6.33	124.80	121.00
80	6	1365	C	C6-N1-C2	-6.33	117.77	120.30
85	5	589	A	N1-C2-N3	6.33	132.46	129.30
85	5	745	C	C2-N3-C4	-6.33	116.74	119.90
85	5	1184	A	C5-C6-N6	6.33	128.76	123.70
85	5	1681	U	C6-N1-C2	6.33	124.80	121.00
85	5	1924	U	N3-C4-O4	-6.33	114.97	119.40
85	5	2404	A	O5'-P-OP1	6.33	118.30	110.70
85	5	2610	G	N9-C1'-C2'	-6.33	105.04	112.00
85	5	2997	G	C5-N7-C8	-6.33	101.14	104.30
85	5	3042	U	N1-C2-O2	-6.33	118.37	122.80
42	l5	152	ARG	NE-CZ-NH1	-6.33	117.14	120.30
36	1	858	A	N1-C6-N6	-6.33	114.80	118.60
36	1	1247	U	C6-N1-C2	-6.33	117.20	121.00
36	1	1335	C	OP2-P-O3'	6.33	119.12	105.20
36	1	2195	C	N3-C2-O2	6.33	126.33	121.90
38	4	119	C	N3-C4-N4	6.33	122.43	118.00
40	L3	369	ARG	NE-CZ-NH1	-6.33	117.14	120.30
55	M9	119	LEU	CB-CG-CD1	-6.33	100.25	111.00
80	6	57	G	N1-C2-N3	6.33	127.70	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	75	U	N1-C2-N3	-6.33	111.10	114.90
80	6	909	U	N3-C2-O2	-6.33	117.77	122.20
85	5	13	A	C2-N3-C4	-6.33	107.44	110.60
85	5	2147	A	OP1-P-O3'	6.33	119.12	105.20
85	5	2429	G	N3-C4-N9	-6.33	122.20	126.00
85	5	2797	C	OP2-P-O3'	6.33	119.12	105.20
85	5	3392	U	N3-C2-O2	-6.33	117.77	122.20
38	8	38	U	N1-C2-N3	6.33	118.70	114.90
1	2	1330	U	N3-C4-C5	-6.33	110.81	114.60
36	1	1295	G	C8-N9-C4	-6.33	103.87	106.40
36	1	1352	A	N3-C4-N9	6.33	132.46	127.40
36	1	1427	U	N3-C4-C5	-6.33	110.81	114.60
36	1	1521	G	C4-C5-C6	6.33	122.59	118.80
36	1	1888	U	C6-N1-C2	-6.33	117.20	121.00
36	1	2997	G	C5-N7-C8	-6.33	101.14	104.30
36	1	3286	G	C5-C6-N1	6.33	114.66	111.50
37	3	28	C	N3-C4-N4	6.33	122.43	118.00
40	L3	332	ARG	NE-CZ-NH1	6.33	123.46	120.30
80	6	589	C	C5-C6-N1	6.33	124.16	121.00
80	6	879	G	C5-N7-C8	6.33	107.46	104.30
80	6	1649	G	C5-C6-O6	-6.33	124.81	128.60
85	5	66	A	C4-C5-N7	-6.33	107.54	110.70
85	5	287	G	N3-C4-C5	-6.33	125.44	128.60
85	5	1509	A	C5-C6-N6	6.33	128.76	123.70
85	5	1662	G	C8-N9-C1'	-6.33	118.78	127.00
85	5	2240	G	N3-C4-C5	6.33	131.76	128.60
85	5	3111	U	O5'-P-OP1	6.33	118.29	110.70
85	5	3387	U	C4-C5-C6	6.33	123.50	119.70
1	2	411	C	C5-C4-N4	6.32	124.63	120.20
1	2	1075	A	C4-C5-N7	6.32	113.86	110.70
30	D8	22	ARG	NE-CZ-NH1	6.32	123.46	120.30
36	1	1581	C	N3-C4-N4	6.32	122.43	118.00
36	1	2187	G	OP1-P-OP2	-6.32	110.11	119.60
36	1	2639	G	OP2-P-O3'	6.32	119.11	105.20
36	1	2895	G	N1-C6-O6	6.32	123.69	119.90
37	3	114	U	N3-C4-C5	6.32	118.39	114.60
80	6	799	A	N7-C8-N9	6.32	116.96	113.80
80	6	897	C	C5-C4-N4	6.32	124.63	120.20
85	5	817	A	C2-N3-C4	6.32	113.76	110.60
85	5	831	G	N3-C2-N2	-6.32	115.47	119.90
85	5	1456	A	C5-C6-N1	-6.32	114.54	117.70
85	5	1458	U	C2-N1-C1'	6.32	125.29	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2831	G	N3-C2-N2	-6.32	115.47	119.90
1	2	1552	A	C8-N9-C4	-6.32	103.27	105.80
36	1	718	G	C8-N9-C4	-6.32	103.87	106.40
36	1	1337	A	N1-C6-N6	-6.32	114.81	118.60
36	1	1856	C	O5'-P-OP1	-6.32	100.01	105.70
36	1	2546	C	N1-C2-O2	-6.32	115.11	118.90
36	1	2902	A	C6-N1-C2	-6.32	114.81	118.60
37	3	102	A	C2-N3-C4	-6.32	107.44	110.60
85	5	299	G	O5'-P-OP2	-6.32	100.01	105.70
85	5	1126	G	N9-C4-C5	6.32	107.93	105.40
85	5	1428	A	C8-N9-C4	6.32	108.33	105.80
85	5	2972	G	C5-C6-O6	-6.32	124.81	128.60
85	5	3083	G	C8-N9-C4	6.32	108.93	106.40
37	7	85	G	N3-C4-N9	6.32	129.79	126.00
69	o3	89	LEU	CB-CG-CD2	-6.32	100.25	111.00
1	2	722	G	N7-C8-N9	-6.32	109.94	113.10
36	1	583	G	N3-C2-N2	-6.32	115.48	119.90
36	1	1521	G	C5-N7-C8	-6.32	101.14	104.30
36	1	1562	C	N1-C2-O2	6.32	122.69	118.90
36	1	2172	A	N1-C6-N6	6.32	122.39	118.60
36	1	2175	U	OP1-P-OP2	6.32	129.08	119.60
36	1	2405	C	O5'-P-OP2	-6.32	100.01	105.70
36	1	2538	U	N1-C2-O2	6.32	127.22	122.80
37	3	13	A	C6-N1-C2	6.32	122.39	118.60
38	4	21	C	O5'-P-OP2	-6.32	100.01	105.70
80	6	110	U	C5-C6-N1	6.32	125.86	122.70
80	6	521	A	N1-C6-N6	-6.32	114.81	118.60
80	6	594	A	C5-C6-N6	6.32	128.76	123.70
80	6	1655	A	C5-C6-N1	6.32	120.86	117.70
80	6	1655	A	N9-C4-C5	6.32	108.33	105.80
8	s6	23	ARG	NE-CZ-NH2	6.32	123.46	120.30
85	5	339	C	C4-C5-C6	-6.32	114.24	117.40
85	5	1428	A	N7-C8-N9	-6.32	110.64	113.80
85	5	1434	G	C4-C5-N7	6.32	113.33	110.80
85	5	1752	A	C4-C5-N7	6.32	113.86	110.70
1	2	450	U	N1-C2-N3	6.32	118.69	114.90
1	2	982	U	OP1-P-OP2	-6.32	110.12	119.60
36	1	292	U	O5'-P-OP2	-6.32	100.01	105.70
36	1	2172	A	C2-N3-C4	-6.32	107.44	110.60
80	6	546	U	C2-N1-C1'	-6.32	110.12	117.70
85	5	246	U	C5-C6-N1	-6.32	119.54	122.70
85	5	2548	C	C2-N3-C4	6.32	123.06	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3016	A	C4-C5-C6	6.32	120.16	117.00
85	5	3052	G	N3-C4-C5	-6.32	125.44	128.60
1	2	539	G	C8-N9-C4	6.32	108.93	106.40
1	2	577	G	C4-C5-N7	6.32	113.33	110.80
1	2	1131	C	N3-C4-C5	6.32	124.43	121.90
36	1	37	U	C5-C6-N1	-6.32	119.54	122.70
36	1	498	A	N3-C4-C5	-6.32	122.38	126.80
36	1	888	A	C5-C6-N6	6.32	128.75	123.70
36	1	1211	U	C4-C5-C6	6.32	123.49	119.70
36	1	1508	C	P-O3'-C3'	-6.32	112.12	119.70
36	1	1544	G	C6-N1-C2	-6.32	121.31	125.10
36	1	1816	A	C4-C5-C6	-6.32	113.84	117.00
36	1	2218	G	O5'-P-OP1	6.32	118.28	110.70
36	1	2705	A	C5-N7-C8	6.32	107.06	103.90
36	1	2885	C	C6-N1-C1'	-6.32	113.22	120.80
36	1	3175	U	C6-N1-C2	-6.32	117.21	121.00
80	6	1199	G	N3-C4-C5	6.32	131.76	128.60
80	6	1761	U	C5-C4-O4	6.32	129.69	125.90
85	5	785	G	N1-C6-O6	6.32	123.69	119.90
85	5	823	C	C2-N3-C4	-6.32	116.74	119.90
85	5	1142	G	N3-C4-C5	-6.32	125.44	128.60
85	5	1885	U	N1-C2-N3	6.32	118.69	114.90
85	5	2231	C	C5-C4-N4	6.32	124.62	120.20
85	5	2717	U	N3-C4-C5	-6.32	110.81	114.60
85	5	2725	U	C4-C5-C6	6.32	123.49	119.70
85	5	2797	C	C5-C6-N1	6.32	124.16	121.00
85	5	3006	A	N9-C4-C5	6.32	108.33	105.80
85	5	3021	A	O5'-P-OP2	6.32	118.28	110.70
85	5	3087	A	OP1-P-OP2	-6.32	110.12	119.60
85	5	3246	G	C4-C5-C6	6.32	122.59	118.80
85	5	3301	U	C6-N1-C2	6.32	124.79	121.00
1	2	753	A	C8-N9-C4	6.32	108.33	105.80
36	1	128	G	C4-C5-C6	6.32	122.59	118.80
36	1	434	U	OP1-P-OP2	6.32	129.07	119.60
36	1	1337	A	OP2-P-O3'	6.32	119.09	105.20
36	1	1661	G	C5-C6-N1	-6.32	108.34	111.50
36	1	1809	A	C4-C5-N7	-6.32	107.54	110.70
36	1	2369	G	O4'-C1'-N9	6.32	113.25	108.20
80	6	493	U	C5-C6-N1	6.32	125.86	122.70
80	6	520	A	C2-N3-C4	-6.32	107.44	110.60
85	5	1074	U	N3-C4-C5	6.32	118.39	114.60
38	8	150	G	N1-C2-N3	6.32	127.69	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
40	l3	26	ARG	NE-CZ-NH2	6.32	123.46	120.30
1	2	57	G	C4-C5-N7	6.31	113.33	110.80
1	2	247	A	C5-C6-N6	6.31	128.75	123.70
1	2	950	A	C4-C5-N7	6.31	113.86	110.70
1	2	1078	U	C4-C5-C6	6.31	123.49	119.70
36	1	21	G	N3-C4-C5	-6.31	125.44	128.60
36	1	553	U	C5-C4-O4	6.31	129.69	125.90
36	1	1519	G	C4-C5-N7	6.31	113.33	110.80
36	1	2750	U	N1-C2-N3	6.31	118.69	114.90
36	1	2849	C	N3-C2-O2	-6.31	117.48	121.90
38	4	50	C	N1-C2-N3	6.31	123.62	119.20
47	M0	156	ARG	NE-CZ-NH1	-6.31	117.14	120.30
80	6	235	G	C5-C6-N1	-6.31	108.34	111.50
80	6	1746	A	OP2-P-O3'	6.31	119.09	105.20
85	5	2213	A	C5-C6-N1	-6.31	114.54	117.70
85	5	2799	A	N1-C6-N6	-6.31	114.81	118.60
1	2	228	G	N1-C6-O6	6.31	123.69	119.90
36	1	209	A	C8-N9-C4	6.31	108.33	105.80
36	1	397	A	C5-N7-C8	6.31	107.06	103.90
36	1	2215	A	N3-C4-N9	-6.31	122.35	127.40
36	1	2280	A	N1-C2-N3	6.31	132.46	129.30
36	1	2932	U	C2-N3-C4	-6.31	123.21	127.00
36	1	2987	A	N7-C8-N9	-6.31	110.64	113.80
36	1	3106	A	C8-N9-C4	-6.31	103.28	105.80
36	1	3184	A	N9-C4-C5	-6.31	103.28	105.80
36	1	3193	C	N1-C2-O2	-6.31	115.11	118.90
80	6	84	A	C8-N9-C4	6.31	108.33	105.80
80	6	783	G	C8-N9-C4	6.31	108.92	106.40
80	6	979	A	N1-C6-N6	-6.31	114.81	118.60
80	6	1029	U	C5-C4-O4	6.31	129.69	125.90
85	5	44	U	C5-C6-N1	-6.31	119.54	122.70
85	5	1449	A	N3-C4-C5	-6.31	122.38	126.80
85	5	1511	U	OP1-P-OP2	-6.31	110.13	119.60
85	5	2119	A	C5-C6-N6	-6.31	118.65	123.70
85	5	2867	C	OP1-P-O3'	6.31	119.09	105.20
85	5	2956	A	N1-C6-N6	6.31	122.39	118.60
85	5	3195	U	C5-C4-O4	-6.31	122.11	125.90
85	5	3232	G	C6-C5-N7	-6.31	126.61	130.40
37	7	12	U	C2-N3-C4	6.31	130.79	127.00
37	7	101	G	C6-N1-C2	-6.31	121.31	125.10
1	2	1181	G	C2-N3-C4	-6.31	108.75	111.90
36	1	531	G	N9-C4-C5	6.31	107.92	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1307	G	C8-N9-C4	6.31	108.92	106.40
38	4	157	U	C5-C4-O4	6.31	129.69	125.90
38	4	158	U	N1-C2-N3	-6.31	111.11	114.90
80	6	104	A	O5'-P-OP1	-6.31	100.02	105.70
80	6	1665	U	N3-C2-O2	6.31	126.62	122.20
1	2	362	G	O5'-P-OP2	-6.31	100.02	105.70
36	1	800	G	N3-C4-N9	-6.31	122.21	126.00
36	1	1018	G	C4-C5-N7	-6.31	108.28	110.80
36	1	1378	U	C5-C4-O4	-6.31	122.11	125.90
36	1	2337	C	N3-C4-C5	6.31	124.42	121.90
36	1	2701	U	OP1-P-OP2	6.31	129.06	119.60
80	6	463	U	C5-C6-N1	6.31	125.86	122.70
80	6	1745	G	C4-C5-N7	-6.31	108.28	110.80
85	5	883	A	N7-C8-N9	6.31	116.95	113.80
85	5	1069	C	N1-C2-N3	6.31	123.62	119.20
85	5	1778	G	N1-C2-N2	-6.31	110.52	116.20
85	5	1894	U	N1-C2-O2	-6.31	118.38	122.80
85	5	2330	C	N3-C4-C5	6.31	124.42	121.90
85	5	2374	C	C2-N1-C1'	6.31	125.74	118.80
85	5	2784	G	N3-C2-N2	6.31	124.32	119.90
85	5	2910	A	O5'-P-OP2	-6.31	100.02	105.70
37	7	46	A	OP2-P-O3'	6.31	119.08	105.20
37	7	91	G	N1-C2-N2	-6.31	110.52	116.20
38	8	103	G	C5-N7-C8	-6.31	101.15	104.30
1	2	1332	G	N3-C2-N2	-6.31	115.48	119.90
1	2	1578	U	N3-C4-C5	-6.31	110.81	114.60
36	1	306	A	N1-C6-N6	6.31	122.38	118.60
36	1	692	A	N3-C4-C5	-6.31	122.38	126.80
36	1	1227	C	N1-C2-O2	6.31	122.68	118.90
36	1	1495	U	C2-N1-C1'	-6.31	110.13	117.70
36	1	2369	G	C6-N1-C2	-6.31	121.32	125.10
36	1	2514	U	C2-N3-C4	-6.31	123.22	127.00
36	1	2895	G	C8-N9-C1'	-6.31	118.80	127.00
36	1	3246	G	C2-N3-C4	-6.31	108.75	111.90
38	4	46	G	C8-N9-C1'	-6.31	118.80	127.00
80	6	42	G	O5'-P-OP1	-6.31	100.02	105.70
80	6	143	G	C8-N9-C4	-6.31	103.88	106.40
80	6	1358	G	N7-C8-N9	-6.31	109.95	113.10
85	5	41	G	O5'-P-OP1	6.31	118.27	110.70
85	5	977	C	N1-C2-O2	-6.31	115.12	118.90
85	5	1345	G	C5-C6-N1	-6.31	108.35	111.50
85	5	3106	A	C6-N1-C2	-6.31	114.82	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3145	C	N3-C2-O2	6.31	126.31	121.90
38	8	1	A	C4-C5-C6	6.31	120.15	117.00
1	2	204	G	N3-C4-C5	-6.31	125.45	128.60
1	2	606	A	C6-N1-C2	6.31	122.38	118.60
1	2	920	C	C2-N3-C4	6.31	123.05	119.90
36	1	650	C	C5-C4-N4	-6.31	115.79	120.20
36	1	654	C	N3-C4-N4	6.31	122.41	118.00
36	1	1421	G	C5-C6-O6	-6.31	124.82	128.60
36	1	2269	U	N3-C4-C5	-6.31	110.82	114.60
36	1	3202	G	C5-N7-C8	-6.31	101.15	104.30
80	6	414	C	N3-C4-N4	6.31	122.41	118.00
85	5	258	G	N7-C8-N9	6.31	116.25	113.10
85	5	1861	G	N7-C8-N9	6.31	116.25	113.10
85	5	2550	U	N1-C2-O2	-6.31	118.39	122.80
85	5	3153	U	C2-N3-C4	-6.31	123.22	127.00
85	5	3246	G	C6-C5-N7	-6.31	126.62	130.40
85	5	3328	G	C2-N3-C4	6.31	115.05	111.90
1	2	672	G	C5-C6-N1	-6.30	108.35	111.50
1	2	1638	A	OP1-P-O3'	6.30	119.07	105.20
36	1	313	A	OP1-P-OP2	6.30	129.06	119.60
36	1	366	A	C5-C6-N6	6.30	128.74	123.70
36	1	933	A	C4-C5-C6	6.30	120.15	117.00
36	1	1181	U	N1-C2-O2	6.30	127.21	122.80
36	1	1805	C	N1-C2-N3	6.30	123.61	119.20
37	3	67	G	C8-N9-C4	6.30	108.92	106.40
37	3	112	G	C2-N3-C4	6.30	115.05	111.90
80	6	783	G	C4-C5-N7	-6.30	108.28	110.80
80	6	920	U	C2-N3-C4	6.30	130.78	127.00
80	6	1503	A	C5-C6-N1	-6.30	114.55	117.70
85	5	518	G	OP1-P-OP2	6.30	129.06	119.60
85	5	1131	G	C2-N3-C4	-6.30	108.75	111.90
85	5	2429	G	N3-C4-C5	6.30	131.75	128.60
37	7	24	A	C4-C5-C6	6.30	120.15	117.00
38	8	87	G	N3-C2-N2	6.30	124.31	119.90
38	8	89	A	OP1-P-O3'	6.30	119.07	105.20
55	m9	9	ARG	NE-CZ-NH2	-6.30	117.15	120.30
55	m9	136	ARG	NE-CZ-NH1	-6.30	117.15	120.30
59	n3	120	LYS	CD-CE-NZ	6.30	126.20	111.70
1	2	78	A	C8-N9-C4	-6.30	103.28	105.80
1	2	937	G	C5-C6-O6	-6.30	124.82	128.60
1	2	1190	C	N1-C2-N3	6.30	123.61	119.20
1	2	1352	U	C5-C4-O4	-6.30	122.12	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2244	A	C4-C5-N7	-6.30	107.55	110.70
36	1	3342	A	C6-N1-C2	6.30	122.38	118.60
38	4	26	U	N3-C4-O4	6.30	123.81	119.40
85	5	503	C	OP1-P-O3'	6.30	119.07	105.20
85	5	875	G	N3-C4-C5	-6.30	125.45	128.60
85	5	1087	G	C4-C5-N7	6.30	113.32	110.80
85	5	1506	A	O5'-P-OP2	-6.30	100.03	105.70
85	5	1683	A	N1-C2-N3	6.30	132.45	129.30
85	5	3369	G	C5-C6-O6	-6.30	124.82	128.60
1	2	1454	A	N7-C8-N9	6.30	116.95	113.80
36	1	100	A	C5-N7-C8	-6.30	100.75	103.90
36	1	223	U	N3-C2-O2	6.30	126.61	122.20
36	1	267	G	N1-C2-N2	6.30	121.87	116.20
36	1	933	A	C5-N7-C8	-6.30	100.75	103.90
36	1	1804	A	C4-C5-C6	6.30	120.15	117.00
36	1	1905	G	C4-C5-C6	6.30	122.58	118.80
36	1	2953	U	N3-C4-O4	6.30	123.81	119.40
36	1	2969	A	C6-C5-N7	-6.30	127.89	132.30
36	1	3212	C	C5-C6-N1	-6.30	117.85	121.00
36	1	3317	U	C5-C6-N1	-6.30	119.55	122.70
36	1	3330	A	N3-C4-N9	6.30	132.44	127.40
80	6	102	U	C4-C5-C6	-6.30	115.92	119.70
80	6	192	U	O5'-P-OP1	6.30	118.26	110.70
80	6	958	U	C5-C4-O4	6.30	129.68	125.90
80	6	1703	C	C4-C5-C6	-6.30	114.25	117.40
85	5	634	C	O5'-P-OP1	-6.30	100.03	105.70
85	5	830	A	C5-N7-C8	-6.30	100.75	103.90
85	5	1517	G	C8-N9-C4	-6.30	103.88	106.40
85	5	2866	U	C4-C5-C6	-6.30	115.92	119.70
1	2	1165	U	OP1-P-OP2	6.30	129.05	119.60
1	2	1424	C	N1-C2-N3	-6.30	114.79	119.20
36	1	92	G	N3-C4-C5	-6.30	125.45	128.60
36	1	356	C	N1-C2-N3	6.30	123.61	119.20
36	1	1519	G	N1-C6-O6	6.30	123.68	119.90
36	1	1680	G	N1-C2-N3	6.30	127.68	123.90
36	1	2312	A	N1-C2-N3	6.30	132.45	129.30
36	1	2940	A	C6-N1-C2	-6.30	114.82	118.60
36	1	2985	C	N3-C2-O2	-6.30	117.49	121.90
36	1	3251	U	N3-C4-C5	6.30	118.38	114.60
36	1	3325	G	N3-C4-C5	-6.30	125.45	128.60
80	6	568	G	C5-C6-O6	-6.30	124.82	128.60
80	6	1099	U	C4-C5-C6	6.30	123.48	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1139	A	O5'-P-OP1	-6.30	100.03	105.70
80	6	1439	C	C2-N3-C4	6.30	123.05	119.90
85	5	111	C	N3-C4-C5	6.30	124.42	121.90
85	5	327	A	C5-N7-C8	-6.30	100.75	103.90
85	5	1456	A	OP1-P-O3'	6.30	119.06	105.20
85	5	2989	U	O5'-P-OP1	6.30	118.26	110.70
85	5	3090	U	N3-C2-O2	6.30	126.61	122.20
37	7	65	G	C5-C6-O6	-6.30	124.82	128.60
36	1	388	G	N1-C2-N3	6.30	127.68	123.90
36	1	695	C	C4-C5-C6	6.30	120.55	117.40
36	1	900	G	N7-C8-N9	6.30	116.25	113.10
36	1	1230	G	N1-C6-O6	6.30	123.68	119.90
36	1	2691	A	C5-C6-N1	6.30	120.85	117.70
36	1	3360	C	C6-N1-C2	-6.30	117.78	120.30
85	5	613	G	N3-C2-N2	-6.30	115.49	119.90
85	5	2188	A	C5-C6-N6	6.30	128.74	123.70
85	5	3309	G	C5-N7-C8	-6.30	101.15	104.30
38	8	89	A	O5'-P-OP2	-6.30	100.03	105.70
61	n5	42	ARG	NE-CZ-NH2	6.30	123.45	120.30
1	2	416	A	C4-C5-N7	6.30	113.85	110.70
1	2	440	U	N1-C2-N3	6.30	118.68	114.90
1	2	753	A	N7-C8-N9	-6.30	110.65	113.80
1	2	1400	A	C5-C6-N1	-6.30	114.55	117.70
36	1	278	U	N3-C2-O2	-6.30	117.79	122.20
36	1	404	G	OP1-P-OP2	6.30	129.04	119.60
36	1	531	G	C8-N9-C4	-6.30	103.88	106.40
36	1	2182	A	N3-C4-C5	-6.30	122.39	126.80
36	1	2411	U	C5-C6-N1	-6.30	119.55	122.70
36	1	2680	A	C5-C6-N6	-6.30	118.66	123.70
36	1	2756	C	C2-N1-C1'	6.30	125.73	118.80
36	1	3063	C	N1-C2-N3	6.30	123.61	119.20
36	1	3194	C	C6-N1-C2	-6.30	117.78	120.30
36	1	3213	A	O5'-P-OP1	-6.30	100.03	105.70
38	4	111	A	C5-N7-C8	-6.30	100.75	103.90
80	6	305	C	C5-C4-N4	-6.30	115.79	120.20
85	5	295	A	C5-C6-N6	-6.30	118.66	123.70
85	5	406	G	C8-N9-C4	-6.30	103.88	106.40
85	5	432	G	C4-C5-C6	6.30	122.58	118.80
85	5	641	C	C2-N1-C1'	-6.30	111.87	118.80
85	5	1130	A	N3-C4-C5	-6.30	122.39	126.80
85	5	1272	C	C2-N3-C4	6.30	123.05	119.90
85	5	1455	U	N3-C2-O2	-6.30	117.79	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1666	G	N1-C6-O6	6.30	123.68	119.90
85	5	1794	G	C8-N9-C4	-6.30	103.88	106.40
85	5	1931	U	N1-C2-N3	6.30	118.68	114.90
85	5	2155	G	N3-C4-N9	6.30	129.78	126.00
85	5	2843	U	OP1-P-OP2	-6.30	110.16	119.60
85	5	2909	U	C2-N3-C4	-6.30	123.22	127.00
37	7	64	A	N1-C2-N3	-6.30	126.15	129.30
38	8	42	G	OP1-P-O3'	6.30	119.05	105.20
1	2	441	A	O5'-P-OP2	-6.29	100.03	105.70
36	1	1511	U	C6-N1-C2	-6.29	117.22	121.00
36	1	1566	A	N7-C8-N9	6.29	116.95	113.80
36	1	2275	A	C5-N7-C8	-6.29	100.75	103.90
85	5	954	U	C4-C5-C6	6.29	123.48	119.70
85	5	1065	A	N1-C2-N3	6.29	132.45	129.30
85	5	2882	U	N1-C2-N3	6.29	118.68	114.90
38	8	87	G	C5-N7-C8	6.29	107.45	104.30
1	2	388	G	N1-C2-N2	6.29	121.86	116.20
1	2	971	A	OP1-P-OP2	6.29	129.04	119.60
36	1	296	A	C5-N7-C8	-6.29	100.75	103.90
36	1	717	C	C4-C5-C6	6.29	120.55	117.40
36	1	761	A	N1-C6-N6	6.29	122.38	118.60
36	1	1803	C	N3-C2-O2	6.29	126.31	121.90
38	4	107	G	C5-N7-C8	6.29	107.45	104.30
80	6	57	G	C4-C5-N7	-6.29	108.28	110.80
80	6	320	U	C5-C4-O4	6.29	129.68	125.90
80	6	946	U	C5-C4-O4	6.29	129.68	125.90
80	6	1300	A	C8-N9-C4	-6.29	103.28	105.80
80	6	1323	C	N3-C4-N4	-6.29	113.59	118.00
80	6	1450	U	N1-C2-N3	-6.29	111.12	114.90
80	6	1792	G	N1-C2-N3	6.29	127.68	123.90
85	5	317	A	C2-N3-C4	-6.29	107.45	110.60
85	5	406	G	N1-C2-N2	-6.29	110.54	116.20
85	5	511	G	N3-C4-N9	-6.29	122.22	126.00
85	5	835	G	N3-C4-N9	6.29	129.78	126.00
85	5	1894	U	N3-C4-C5	6.29	118.38	114.60
85	5	1917	C	C6-N1-C2	-6.29	117.78	120.30
85	5	2106	A	N7-C8-N9	6.29	116.95	113.80
85	5	2401	A	N1-C6-N6	-6.29	114.82	118.60
85	5	2575	G	C4-C5-N7	-6.29	108.28	110.80
85	5	2655	U	N3-C4-O4	-6.29	114.99	119.40
1	2	19	A	C5-C6-N1	-6.29	114.55	117.70
1	2	98	U	N1-C2-N3	-6.29	111.12	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	408	C	C5-C6-N1	-6.29	117.85	121.00
1	2	822	U	N3-C4-O4	6.29	123.80	119.40
1	2	1523	G	C8-N9-C4	-6.29	103.88	106.40
36	1	155	G	C6-N1-C2	-6.29	121.33	125.10
36	1	507	U	N3-C4-O4	6.29	123.81	119.40
36	1	1186	G	N7-C8-N9	-6.29	109.95	113.10
36	1	1880	U	N3-C4-C5	-6.29	110.83	114.60
36	1	2306	C	C5-C4-N4	-6.29	115.80	120.20
36	1	2333	C	O5'-P-OP1	-6.29	100.04	105.70
36	1	2877	G	N7-C8-N9	6.29	116.25	113.10
41	L4	327	LEU	CA-CB-CG	6.29	129.77	115.30
80	6	65	A	N1-C6-N6	6.29	122.38	118.60
80	6	789	A	C5-C6-N1	-6.29	114.55	117.70
80	6	1399	C	N3-C4-C5	-6.29	119.38	121.90
85	5	154	U	OP1-P-O3'	6.29	119.04	105.20
85	5	533	A	C6-N1-C2	-6.29	114.83	118.60
85	5	1359	C	N3-C2-O2	6.29	126.30	121.90
85	5	1567	U	C6-N1-C2	-6.29	117.22	121.00
85	5	2216	G	N1-C2-N3	6.29	127.67	123.90
85	5	2323	G	N7-C8-N9	6.29	116.25	113.10
85	5	2651	G	C4-C5-N7	-6.29	108.28	110.80
85	5	2867	C	N3-C2-O2	6.29	126.30	121.90
85	5	3030	G	C6-N1-C2	-6.29	121.33	125.10
1	2	1485	G	N1-C2-N2	-6.29	110.54	116.20
36	1	650	C	C2-N3-C4	6.29	123.05	119.90
36	1	1168	U	N1-C2-N3	6.29	118.67	114.90
37	3	6	C	C5-C6-N1	6.29	124.14	121.00
38	4	6	U	C5-C4-O4	-6.29	122.13	125.90
85	5	267	G	N1-C6-O6	6.29	123.67	119.90
85	5	1111	U	C6-N1-C2	6.29	124.77	121.00
85	5	2219	A	O5'-P-OP2	6.29	118.25	110.70
85	5	2333	C	OP2-P-O3'	6.29	119.04	105.20
85	5	2743	A	C4-C5-C6	6.29	120.14	117.00
85	5	3276	G	O4'-C1'-N9	6.29	113.23	108.20
1	2	298	C	C5-C4-N4	-6.29	115.80	120.20
1	2	651	G	C4-C5-N7	-6.29	108.28	110.80
36	1	298	U	O5'-P-OP1	-6.29	100.04	105.70
36	1	429	U	C5-C6-N1	-6.29	119.56	122.70
36	1	648	C	OP1-P-O3'	6.29	119.03	105.20
36	1	1100	U	C5-C6-N1	-6.29	119.56	122.70
36	1	1135	A	N7-C8-N9	6.29	116.94	113.80
36	1	1194	G	N7-C8-N9	6.29	116.25	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2117	A	C4-C5-N7	-6.29	107.56	110.70
36	1	2390	A	C5-C6-N1	6.29	120.84	117.70
36	1	2903	A	C4-C5-N7	-6.29	107.56	110.70
38	4	49	G	N1-C6-O6	-6.29	116.13	119.90
38	4	107	G	OP1-P-OP2	6.29	129.03	119.60
44	L7	175	LYS	CD-CE-NZ	6.29	126.16	111.70
80	6	1182	U	C5-C6-N1	-6.29	119.56	122.70
85	5	599	C	N3-C4-C5	6.29	124.42	121.90
85	5	801	A	C5-C6-N6	6.29	128.73	123.70
85	5	914	A	C5-N7-C8	-6.29	100.75	103.90
85	5	1134	G	N1-C2-N2	-6.29	110.54	116.20
85	5	1873	U	N3-C4-C5	-6.29	110.83	114.60
85	5	1931	U	N3-C2-O2	-6.29	117.80	122.20
85	5	2903	A	OP1-P-OP2	6.29	129.03	119.60
85	5	3093	C	O5'-P-OP1	-6.29	100.04	105.70
36	1	137	G	C5-N7-C8	-6.29	101.16	104.30
36	1	200	C	OP1-P-O3'	6.29	119.03	105.20
36	1	610	G	N7-C8-N9	6.29	116.24	113.10
36	1	815	G	C2-N3-C4	-6.29	108.76	111.90
36	1	1301	A	N1-C2-N3	-6.29	126.16	129.30
36	1	1396	C	N3-C4-N4	6.29	122.40	118.00
36	1	1463	U	C4-C5-C6	6.29	123.47	119.70
85	5	329	U	O4'-C1'-N1	6.29	113.23	108.20
85	5	554	A	C6-N1-C2	6.29	122.37	118.60
85	5	897	U	N3-C2-O2	-6.29	117.80	122.20
85	5	1556	C	N3-C2-O2	-6.29	117.50	121.90
38	8	17	A	N9-C4-C5	-6.29	103.28	105.80
1	2	235	G	N1-C2-N2	6.29	121.86	116.20
1	2	583	C	N1-C2-O2	-6.29	115.13	118.90
1	2	822	U	N1-C2-O2	-6.29	118.40	122.80
36	1	782	U	N3-C4-O4	-6.29	115.00	119.40
36	1	1946	A	OP1-P-OP2	-6.29	110.17	119.60
36	1	2225	U	N1-C2-O2	-6.29	118.40	122.80
36	1	2630	C	OP1-P-OP2	6.29	129.03	119.60
36	1	2665	U	N3-C2-O2	-6.29	117.80	122.20
36	1	3124	G	C5-C6-O6	6.29	132.37	128.60
36	1	3326	G	C8-N9-C1'	-6.29	118.83	127.00
38	4	95	G	N7-C8-N9	-6.29	109.96	113.10
80	6	364	G	O5'-P-OP2	-6.29	100.04	105.70
80	6	379	U	C2-N1-C1'	6.29	125.24	117.70
80	6	1161	C	C2-N3-C4	-6.29	116.76	119.90
85	5	420	G	C6-C5-N7	6.29	134.17	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1108	U	C5-C4-O4	6.29	129.67	125.90
85	5	2171	G	C5-C6-N1	6.29	114.64	111.50
85	5	2172	A	C4-C5-N7	6.29	113.84	110.70
85	5	2349	U	N3-C2-O2	6.29	126.60	122.20
85	5	2505	U	C5-C6-N1	6.29	125.84	122.70
85	5	2744	U	C2-N1-C1'	6.29	125.24	117.70
85	5	2956	A	OP1-P-OP2	-6.29	110.17	119.60
42	15	277	LEU	CB-CG-CD2	-6.29	100.31	111.00
1	2	923	A	C8-N9-C4	-6.28	103.29	105.80
1	2	1171	G	C4-C5-C6	6.28	122.57	118.80
1	2	1640	U	N3-C4-C5	6.28	118.37	114.60
36	1	1417	G	C5-C6-O6	-6.28	124.83	128.60
36	1	1613	A	C2-N3-C4	-6.28	107.46	110.60
36	1	1876	U	C6-N1-C2	-6.28	117.23	121.00
36	1	2139	A	N1-C2-N3	6.28	132.44	129.30
36	1	2916	U	N1-C2-N3	-6.28	111.13	114.90
38	4	37	A	N3-C4-C5	-6.28	122.40	126.80
80	6	119	A	C4-C5-C6	6.28	120.14	117.00
80	6	801	G	C6-N1-C2	-6.28	121.33	125.10
80	6	909	U	C6-N1-C2	-6.28	117.23	121.00
85	5	711	A	O5'-P-OP2	-6.28	100.05	105.70
85	5	933	A	C5-N7-C8	6.28	107.04	103.90
85	5	1190	A	N3-C4-N9	-6.28	122.37	127.40
85	5	2258	U	C2-N1-C1'	6.28	125.24	117.70
85	5	2353	G	C5-N7-C8	-6.28	101.16	104.30
85	5	2372	A	N3-C4-N9	6.28	132.43	127.40
85	5	2725	U	O4'-C1'-N1	6.28	113.23	108.20
1	2	1626	U	C5-C6-N1	-6.28	119.56	122.70
36	1	2514	U	OP1-P-OP2	6.28	129.02	119.60
36	1	2557	A	C2-N3-C4	-6.28	107.46	110.60
37	3	27	A	C6-C5-N7	-6.28	127.90	132.30
80	6	228	G	C5-C6-O6	6.28	132.37	128.60
85	5	39	A	O5'-P-OP1	6.28	118.24	110.70
85	5	425	G	N3-C4-N9	-6.28	122.23	126.00
85	5	2754	G	C5-N7-C8	6.28	107.44	104.30
38	8	103	G	C4-C5-C6	6.28	122.57	118.80
1	2	507	U	OP1-P-OP2	-6.28	110.18	119.60
1	2	621	A	C4-C5-C6	-6.28	113.86	117.00
1	2	1150	G	C4-C5-N7	6.28	113.31	110.80
36	1	787	G	C4-C5-N7	6.28	113.31	110.80
36	1	835	G	N1-C6-O6	-6.28	116.13	119.90
36	1	1181	U	N3-C4-O4	-6.28	115.00	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1417	G	OP2-P-O3'	6.28	119.02	105.20
36	1	2736	A	O5'-P-OP1	-6.28	100.05	105.70
36	1	3102	G	N1-C6-O6	-6.28	116.13	119.90
37	3	50	U	N3-C4-C5	-6.28	110.83	114.60
80	6	477	A	C8-N9-C4	6.28	108.31	105.80
80	6	534	A	C2-N3-C4	6.28	113.74	110.60
80	6	648	G	C2-N3-C4	6.28	115.04	111.90
80	6	1589	C	N1-C2-N3	6.28	123.60	119.20
85	5	106	A	C4-C5-C6	-6.28	113.86	117.00
85	5	723	U	N1-C2-O2	-6.28	118.40	122.80
85	5	828	A	C5-C6-N6	6.28	128.72	123.70
85	5	1024	G	C2-N3-C4	6.28	115.04	111.90
85	5	1567	U	C2-N3-C4	6.28	130.77	127.00
85	5	2701	U	OP1-P-OP2	-6.28	110.18	119.60
85	5	2851	A	O5'-P-OP2	-6.28	100.05	105.70
85	5	3141	A	C5-N7-C8	-6.28	100.76	103.90
85	5	3248	C	C5-C4-N4	-6.28	115.80	120.20
37	7	64	A	N9-C4-C5	-6.28	103.29	105.80
49	m3	49	ARG	NE-CZ-NH1	-6.28	117.16	120.30
36	1	1132	C	N3-C4-C5	-6.28	119.39	121.90
36	1	1401	A	N9-C4-C5	-6.28	103.29	105.80
36	1	2246	G	N1-C2-N2	6.28	121.85	116.20
80	6	99	C	N3-C4-C5	6.28	124.41	121.90
80	6	337	G	C4-C5-N7	6.28	113.31	110.80
85	5	876	A	C6-N1-C2	-6.28	114.83	118.60
85	5	898	U	N3-C4-C5	-6.28	110.83	114.60
85	5	2256	A	C8-N9-C4	6.28	108.31	105.80
85	5	2523	A	OP2-P-O3'	6.28	119.01	105.20
85	5	3371	G	C2-N3-C4	6.28	115.04	111.90
36	1	2319	U	C5-C6-N1	6.28	125.84	122.70
36	1	2758	A	C4-C5-C6	-6.28	113.86	117.00
36	1	3390	G	C2-N3-C4	-6.28	108.76	111.90
80	6	1335	U	C4-C5-C6	6.28	123.47	119.70
80	6	1670	G	C5-C6-O6	-6.28	124.83	128.60
85	5	129	U	C2-N3-C4	6.28	130.77	127.00
85	5	564	G	C2-N3-C4	6.28	115.04	111.90
85	5	690	A	C2-N3-C4	-6.28	107.46	110.60
85	5	2646	C	C4-C5-C6	-6.28	114.26	117.40
85	5	2703	A	C5-C6-N1	6.28	120.84	117.70
85	5	3074	G	C2-N3-C4	6.28	115.04	111.90
85	5	3243	A	C4-C5-C6	6.28	120.14	117.00
1	2	1260	G	C5-C6-N1	-6.28	108.36	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1616	A	C5-C6-N6	6.28	128.72	123.70
36	1	1310	G	C8-N9-C4	-6.28	103.89	106.40
36	1	1374	G	C2-N3-C4	-6.28	108.76	111.90
36	1	1409	G	C4-C5-N7	-6.28	108.29	110.80
36	1	2293	C	C2-N3-C4	6.28	123.04	119.90
36	1	2528	G	C6-C5-N7	-6.28	126.63	130.40
36	1	2843	U	O4'-C1'-N1	6.28	113.22	108.20
36	1	2959	C	OP1-P-OP2	-6.28	110.19	119.60
80	6	87	C	N1-C2-N3	6.28	123.59	119.20
80	6	271	A	OP2-P-O3'	6.28	119.00	105.20
80	6	292	U	O5'-P-OP2	-6.28	100.05	105.70
80	6	423	G	O5'-P-OP1	-6.28	100.05	105.70
80	6	937	C	N1-C2-N3	6.28	123.59	119.20
80	6	1036	A	N1-C6-N6	-6.28	114.83	118.60
80	6	1291	G	C4-C5-N7	-6.28	108.29	110.80
85	5	57	A	N3-C4-C5	6.28	131.19	126.80
85	5	1739	U	O5'-P-OP1	6.28	118.23	110.70
85	5	2229	A	OP1-P-OP2	-6.28	110.19	119.60
85	5	2656	A	C8-N9-C4	-6.28	103.29	105.80
36	1	757	C	N1-C2-N3	6.27	123.59	119.20
36	1	2520	A	C2-N3-C4	-6.27	107.46	110.60
36	1	3288	G	C5-N7-C8	-6.27	101.16	104.30
37	3	63	A	N9-C4-C5	6.27	108.31	105.80
80	6	919	A	C2-N3-C4	-6.27	107.46	110.60
80	6	1137	A	C5-C6-N1	-6.27	114.56	117.70
85	5	1107	C	N3-C4-C5	-6.27	119.39	121.90
85	5	3078	U	N3-C4-C5	-6.27	110.84	114.60
85	5	3335	A	N9-C4-C5	-6.27	103.29	105.80
38	8	81	U	N1-C2-N3	-6.27	111.14	114.90
1	2	1135	A	N9-C4-C5	6.27	108.31	105.80
1	2	1301	G	N3-C2-N2	6.27	124.29	119.90
36	1	626	U	C6-N1-C2	-6.27	117.24	121.00
36	1	836	A	OP2-P-O3'	6.27	119.00	105.20
36	1	2430	A	C6-C5-N7	-6.27	127.91	132.30
80	6	298	C	N3-C2-O2	6.27	126.29	121.90
80	6	418	G	O5'-P-OP1	-6.27	100.06	105.70
80	6	1111	G	C8-N9-C1'	-6.27	118.85	127.00
85	5	210	U	O5'-P-OP1	-6.27	100.06	105.70
85	5	565	U	N3-C4-C5	6.27	118.36	114.60
85	5	847	A	N1-C2-N3	6.27	132.44	129.30
85	5	2216	G	C5-C6-O6	6.27	132.36	128.60
37	7	92	A	O5'-P-OP2	-6.27	100.06	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	254	A	C2-N3-C4	-6.27	107.47	110.60
1	2	860	G	C5-C6-N1	6.27	114.64	111.50
1	2	1068	G	C6-N1-C2	-6.27	121.34	125.10
36	1	2818	U	C4-C5-C6	-6.27	115.94	119.70
36	1	2927	C	N3-C4-N4	-6.27	113.61	118.00
37	3	78	U	N1-C2-O2	-6.27	118.41	122.80
80	6	634	G	N3-C2-N2	-6.27	115.51	119.90
85	5	421	G	C6-N1-C2	-6.27	121.34	125.10
85	5	1722	U	N1-C2-N3	6.27	118.66	114.90
85	5	3100	U	C4-C5-C6	-6.27	115.94	119.70
85	5	3116	G	N7-C8-N9	6.27	116.23	113.10
38	8	19	C	N1-C2-N3	6.27	123.59	119.20
1	2	140	A	C5-C6-N1	-6.27	114.57	117.70
1	2	421	A	C2-N3-C4	-6.27	107.47	110.60
1	2	443	C	N3-C2-O2	-6.27	117.51	121.90
1	2	1463	G	N1-C6-O6	6.27	123.66	119.90
36	1	330	G	O5'-P-OP1	-6.27	100.06	105.70
36	1	354	U	C5-C6-N1	6.27	125.83	122.70
36	1	360	G	C6-N1-C2	-6.27	121.34	125.10
36	1	691	A	OP1-P-O3'	6.27	118.99	105.20
36	1	955	U	N1-C2-N3	6.27	118.66	114.90
36	1	989	A	C5-N7-C8	-6.27	100.77	103.90
36	1	1169	A	OP2-P-O3'	6.27	118.99	105.20
36	1	1906	G	N7-C8-N9	6.27	116.23	113.10
36	1	2800	G	N3-C4-N9	6.27	129.76	126.00
37	3	84	A	N1-C2-N3	6.27	132.43	129.30
85	5	1118	C	C6-N1-C2	-6.27	117.79	120.30
85	5	2339	C	N3-C4-C5	-6.27	119.39	121.90
85	5	3109	G	C8-N9-C4	-6.27	103.89	106.40
85	5	3167	A	N7-C8-N9	6.27	116.94	113.80
38	8	2	A	O5'-P-OP1	6.27	118.22	110.70
36	1	91	G	O5'-P-OP1	6.27	118.22	110.70
36	1	802	C	C5-C6-N1	6.27	124.13	121.00
36	1	1147	G	C6-C5-N7	6.27	134.16	130.40
36	1	2119	A	C5-C6-N1	6.27	120.83	117.70
36	1	2715	A	N9-C4-C5	6.27	108.31	105.80
37	3	91	G	N1-C6-O6	6.27	123.66	119.90
44	L7	108	LEU	CB-CG-CD2	-6.27	100.34	111.00
51	M5	83	LYS	CD-CE-NZ	6.27	126.11	111.70
80	6	50	C	C5-C6-N1	-6.27	117.87	121.00
80	6	475	A	N3-C4-C5	-6.27	122.41	126.80
80	6	1270	G	O5'-P-OP2	-6.27	100.06	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1499	G	N3-C2-N2	6.27	124.29	119.90
80	6	1579	U	C6-N1-C2	6.27	124.76	121.00
85	5	1355	A	O4'-C1'-N9	6.27	113.21	108.20
85	5	2139	A	C2-N3-C4	-6.27	107.47	110.60
85	5	2397	A	C6-N1-C2	-6.27	114.84	118.60
85	5	2618	G	O5'-P-OP1	-6.27	100.06	105.70
85	5	2800	G	C5-N7-C8	6.27	107.43	104.30
85	5	2925	C	OP2-P-O3'	6.27	118.99	105.20
1	2	1643	A	C6-N1-C2	-6.27	114.84	118.60
36	1	2889	C	N3-C4-C5	6.27	124.41	121.90
36	1	3350	C	C2-N3-C4	6.27	123.03	119.90
85	5	268	A	C8-N9-C4	-6.27	103.29	105.80
85	5	961	C	C4-C5-C6	6.27	120.53	117.40
85	5	1181	U	OP1-P-OP2	6.27	129.00	119.60
85	5	1333	C	OP2-P-O3'	6.27	118.98	105.20
85	5	1466	G	C4-C5-N7	-6.27	108.29	110.80
85	5	2117	A	OP1-P-OP2	6.27	129.00	119.60
85	5	2402	A	C6-N1-C2	-6.27	114.84	118.60
85	5	3345	G	N1-C2-N2	6.27	121.84	116.20
38	8	86	U	C4-C5-C6	-6.27	115.94	119.70
1	2	611	U	N3-C2-O2	-6.26	117.81	122.20
36	1	128	G	N1-C2-N3	6.26	127.66	123.90
36	1	782	U	N3-C4-C5	6.26	118.36	114.60
36	1	2290	C	C5-C4-N4	6.26	124.58	120.20
36	1	2523	A	N3-C4-C5	-6.26	122.42	126.80
71	O5	23	ASP	CB-CG-OD1	6.26	123.94	118.30
80	6	348	U	C4-C5-C6	6.26	123.46	119.70
85	5	306	A	O4'-C1'-N9	-6.26	103.19	108.20
85	5	1393	A	C4-N9-C1'	6.26	137.58	126.30
85	5	1898	G	C8-N9-C4	-6.26	103.89	106.40
85	5	2257	C	C5-C6-N1	6.26	124.13	121.00
85	5	2383	C	C2-N1-C1'	6.26	125.69	118.80
85	5	2548	C	C5-C4-N4	6.26	124.58	120.20
85	5	2627	C	C4-C5-C6	6.26	120.53	117.40
85	5	3269	U	N3-C4-O4	-6.26	115.02	119.40
37	7	26	C	O5'-P-OP2	-6.26	100.06	105.70
1	2	749	U	N3-C4-C5	-6.26	110.84	114.60
1	2	1164	U	N3-C2-O2	-6.26	117.82	122.20
36	1	106	A	C2-N3-C4	-6.26	107.47	110.60
36	1	869	G	C2-N3-C4	-6.26	108.77	111.90
36	1	1102	A	C2-N3-C4	-6.26	107.47	110.60
36	1	1559	A	C4-C5-C6	6.26	120.13	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	948	G	OP1-P-O3'	6.26	118.98	105.20
85	5	235	A	C2-N3-C4	-6.26	107.47	110.60
1	2	555	A	N3-C4-C5	-6.26	122.42	126.80
1	2	1745	A	O5'-P-OP1	-6.26	100.06	105.70
36	1	209	A	O5'-P-OP2	-6.26	100.06	105.70
36	1	1783	U	C2-N3-C4	6.26	130.76	127.00
36	1	2161	G	C4-C5-N7	6.26	113.31	110.80
36	1	2285	C	N3-C4-N4	-6.26	113.62	118.00
36	1	2582	C	C6-N1-C2	-6.26	117.80	120.30
36	1	2681	U	N3-C4-C5	6.26	118.36	114.60
36	1	2767	U	N3-C4-O4	-6.26	115.02	119.40
80	6	1115	U	C2-N3-C4	-6.26	123.24	127.00
80	6	1280	C	N3-C2-O2	6.26	126.28	121.90
85	5	3149	G	N3-C4-C5	6.26	131.73	128.60
38	8	32	C	OP1-P-O3'	6.26	118.98	105.20
38	8	134	G	N3-C2-N2	6.26	124.28	119.90
1	2	1026	A	C5-C6-N1	-6.26	114.57	117.70
36	1	392	G	O5'-P-OP1	-6.26	100.07	105.70
36	1	610	G	C5-N7-C8	-6.26	101.17	104.30
36	1	773	G	C4-C5-N7	-6.26	108.30	110.80
36	1	1201	C	N1-C2-O2	6.26	122.66	118.90
36	1	1328	C	OP1-P-OP2	6.26	128.99	119.60
36	1	1546	A	N7-C8-N9	6.26	116.93	113.80
36	1	1656	A	C8-N9-C4	6.26	108.30	105.80
36	1	2099	A	C5-C6-N6	6.26	128.71	123.70
36	1	3205	G	N1-C6-O6	-6.26	116.14	119.90
38	4	88	A	N9-C4-C5	6.26	108.30	105.80
80	6	412	A	C2-N3-C4	6.26	113.73	110.60
80	6	1064	G	O5'-P-OP2	6.26	118.21	110.70
80	6	1320	U	OP1-P-OP2	6.26	128.99	119.60
80	6	1531	G	N1-C6-O6	-6.26	116.14	119.90
80	6	1658	G	N1-C2-N2	-6.26	110.57	116.20
80	6	1671	A	OP2-P-O3'	6.26	118.97	105.20
85	5	611	A	C4-C5-C6	-6.26	113.87	117.00
85	5	1390	A	N1-C2-N3	6.26	132.43	129.30
85	5	1424	C	OP1-P-OP2	6.26	128.99	119.60
85	5	1594	A	N1-C2-N3	6.26	132.43	129.30
85	5	2138	A	C4-C5-C6	6.26	120.13	117.00
85	5	2740	A	C6-C5-N7	-6.26	127.92	132.30
85	5	2937	G	C2-N3-C4	-6.26	108.77	111.90
38	8	77	A	N1-C2-N3	6.26	132.43	129.30
1	2	223	U	N3-C4-C5	-6.26	110.84	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	511	A	C2-N3-C4	6.26	113.73	110.60
36	1	586	C	N3-C4-C5	6.26	124.40	121.90
36	1	724	U	O5'-P-OP1	6.26	118.21	110.70
36	1	935	U	OP1-P-OP2	6.26	128.99	119.60
36	1	1325	U	OP1-P-OP2	6.26	128.99	119.60
36	1	1629	U	C6-N1-C2	-6.26	117.25	121.00
36	1	2661	G	OP1-P-O3'	6.26	118.97	105.20
36	1	2968	G	C6-C5-N7	-6.26	126.64	130.40
80	6	354	C	N3-C4-C5	-6.26	119.40	121.90
85	5	159	A	C8-N9-C4	6.26	108.30	105.80
85	5	991	G	C5-C6-O6	-6.26	124.84	128.60
36	1	382	U	C5-C4-O4	-6.26	122.15	125.90
36	1	570	A	N1-C6-N6	6.26	122.35	118.60
36	1	1060	U	N3-C4-C5	6.26	118.35	114.60
36	1	1429	G	N3-C2-N2	6.26	124.28	119.90
36	1	1543	G	C2-N3-C4	6.26	115.03	111.90
36	1	1833	G	N3-C4-N9	6.26	129.75	126.00
36	1	2605	G	C6-N1-C2	-6.26	121.35	125.10
80	6	521	A	C4-C5-N7	-6.26	107.57	110.70
80	6	1165	G	N7-C8-N9	-6.26	109.97	113.10
32	e0	56	MET	CG-SD-CE	6.26	110.21	100.20
85	5	1747	G	C8-N9-C4	-6.26	103.90	106.40
85	5	2591	A	C5-C6-N1	-6.26	114.57	117.70
85	5	2651	G	N7-C8-N9	-6.26	109.97	113.10
85	5	2871	G	N3-C4-N9	-6.26	122.25	126.00
85	5	2910	A	N9-C4-C5	6.26	108.30	105.80
38	8	109	A	N9-C4-C5	6.26	108.30	105.80
36	1	173	G	C6-N1-C2	-6.25	121.35	125.10
36	1	407	A	C5-N7-C8	-6.25	100.77	103.90
36	1	1552	G	C4-N9-C1'	6.25	134.63	126.50
36	1	1868	G	N3-C4-C5	-6.25	125.47	128.60
36	1	2243	A	OP1-P-O3'	6.25	118.96	105.20
36	1	2798	C	C2-N1-C1'	6.25	125.68	118.80
80	6	355	G	OP2-P-O3'	6.25	118.96	105.20
85	5	1634	G	N7-C8-N9	6.25	116.23	113.10
85	5	2426	U	OP2-P-O3'	6.25	118.96	105.20
85	5	3204	C	N1-C2-O2	-6.25	115.15	118.90
1	2	279	G	N3-C4-C5	-6.25	125.47	128.60
36	1	431	U	N3-C2-O2	6.25	126.58	122.20
36	1	579	G	N1-C2-N2	-6.25	110.57	116.20
36	1	1420	C	C4-C5-C6	6.25	120.53	117.40
36	1	1484	U	N3-C2-O2	6.25	126.58	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1668	G	N1-C6-O6	6.25	123.65	119.90
36	1	1921	A	C5-C6-N1	6.25	120.83	117.70
36	1	2234	G	C8-N9-C4	6.25	108.90	106.40
36	1	2533	G	C4-C5-N7	6.25	113.30	110.80
36	1	2578	U	C4-C5-C6	6.25	123.45	119.70
80	6	1200	G	N9-C4-C5	-6.25	102.90	105.40
85	5	892	U	N1-C2-O2	-6.25	118.42	122.80
85	5	1612	A	N9-C4-C5	6.25	108.30	105.80
85	5	1820	U	N3-C2-O2	6.25	126.58	122.20
85	5	2119	A	C5-C6-N1	6.25	120.83	117.70
85	5	2580	A	C2-N3-C4	-6.25	107.47	110.60
85	5	2948	C	N3-C4-N4	6.25	122.38	118.00
85	5	3034	C	OP1-P-OP2	-6.25	110.22	119.60
85	5	3132	C	N1-C2-O2	-6.25	115.15	118.90
37	7	79	A	C5-C6-N1	-6.25	114.57	117.70
47	m0	178	ARG	NE-CZ-NH1	6.25	123.43	120.30
1	2	522	U	N3-C4-C5	6.25	118.35	114.60
1	2	1124	G	N7-C8-N9	6.25	116.23	113.10
36	1	567	G	C6-C5-N7	-6.25	126.65	130.40
36	1	762	U	N3-C4-O4	6.25	123.78	119.40
36	1	823	C	C2-N3-C4	-6.25	116.77	119.90
36	1	1896	A	N1-C6-N6	-6.25	114.85	118.60
36	1	3372	A	N7-C8-N9	-6.25	110.67	113.80
80	6	1495	C	O5'-P-OP2	-6.25	100.07	105.70
85	5	364	G	N3-C4-N9	-6.25	122.25	126.00
85	5	588	G	N1-C2-N2	6.25	121.83	116.20
85	5	2377	G	N1-C2-N2	-6.25	110.57	116.20
85	5	3128	G	C4-C5-C6	-6.25	115.05	118.80
85	5	3199	G	N9-C4-C5	6.25	107.90	105.40
85	5	3205	G	C5-C6-N1	-6.25	108.37	111.50
85	5	3375	A	O5'-P-OP2	-6.25	100.07	105.70
59	n3	88	ARG	NE-CZ-NH2	-6.25	117.17	120.30
1	2	353	A	C8-N9-C4	-6.25	103.30	105.80
1	2	428	A	O5'-P-OP1	-6.25	100.08	105.70
1	2	1118	U	C5-C6-N1	-6.25	119.58	122.70
36	1	1293	U	C2-N3-C4	-6.25	123.25	127.00
36	1	1627	U	N3-C2-O2	6.25	126.58	122.20
36	1	2358	A	OP1-P-OP2	-6.25	110.23	119.60
36	1	2755	C	N3-C4-N4	6.25	122.38	118.00
80	6	43	A	C4-C5-C6	6.25	120.12	117.00
80	6	550	A	N1-C2-N3	6.25	132.43	129.30
85	5	1428	A	O4'-C1'-N9	-6.25	103.20	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3353	G	C8-N9-C4	-6.25	103.90	106.40
1	2	450	U	C4-C5-C6	6.25	123.45	119.70
36	1	1076	C	OP1-P-OP2	6.25	128.97	119.60
36	1	2295	A	C5-C6-N1	6.25	120.82	117.70
36	1	2332	A	N1-C6-N6	6.25	122.35	118.60
36	1	2825	C	C2-N1-C1'	6.25	125.67	118.80
36	1	2957	G	C6-C5-N7	6.25	134.15	130.40
36	1	3002	C	N3-C4-C5	6.25	124.40	121.90
36	1	3379	C	C6-N1-C2	-6.25	117.80	120.30
53	M7	95	LEU	CB-CG-CD2	-6.25	100.38	111.00
75	O9	3	ALA	N-CA-CB	6.25	118.85	110.10
80	6	207	U	N1-C2-O2	6.25	127.17	122.80
80	6	859	A	C5-C6-N1	6.25	120.82	117.70
80	6	920	U	N3-C4-O4	6.25	123.78	119.40
85	5	572	A	OP1-P-OP2	6.25	128.97	119.60
85	5	701	G	C6-C5-N7	6.25	134.15	130.40
85	5	1008	U	N3-C4-O4	-6.25	115.03	119.40
85	5	1878	G	N3-C4-N9	6.25	129.75	126.00
85	5	2268	U	N3-C4-O4	6.25	123.77	119.40
85	5	2392	C	P-O3'-C3'	6.25	127.20	119.70
85	5	2568	C	N1-C2-N3	-6.25	114.83	119.20
38	8	155	A	C6-C5-N7	6.25	136.67	132.30
50	m4	14	LEU	CB-CG-CD2	-6.25	100.38	111.00
67	o1	84	ASP	CB-CG-OD1	6.25	123.92	118.30
1	2	727	U	C5-C6-N1	-6.25	119.58	122.70
1	2	730	C	N3-C4-N4	6.25	122.37	118.00
1	2	968	G	C2-N3-C4	6.25	115.02	111.90
1	2	1651	G	O5'-P-OP1	6.25	118.20	110.70
36	1	703	G	N1-C2-N2	-6.25	110.58	116.20
36	1	749	C	C6-N1-C2	6.25	122.80	120.30
36	1	1139	G	C6-N1-C2	6.25	128.85	125.10
36	1	1312	C	C5-C6-N1	6.25	124.12	121.00
36	1	1588	A	C2-N3-C4	6.25	113.72	110.60
36	1	1849	C	N3-C2-O2	-6.25	117.53	121.90
36	1	2215	A	C4-C5-N7	6.25	113.82	110.70
36	1	3084	C	N3-C2-O2	-6.25	117.53	121.90
36	1	3105	U	O5'-P-OP1	-6.25	100.08	105.70
37	3	25	G	N7-C8-N9	6.25	116.22	113.10
52	M6	10	ASP	CB-CG-OD2	-6.25	112.68	118.30
80	6	43	A	C5-C6-N1	6.25	120.82	117.70
80	6	1671	A	C5-C6-N1	6.25	120.82	117.70
85	5	80	G	C6-C5-N7	-6.25	126.65	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2191	U	N3-C4-C5	-6.25	110.85	114.60
85	5	2216	G	N1-C6-O6	-6.25	116.15	119.90
85	5	2222	A	OP1-P-OP2	6.25	128.97	119.60
85	5	2314	U	N3-C4-O4	6.25	123.77	119.40
85	5	2977	G	C4-C5-N7	-6.25	108.30	110.80
38	8	22	U	N1-C2-O2	6.25	127.17	122.80
1	2	1007	U	N1-C2-N3	6.25	118.65	114.90
1	2	1518	U	C5-C6-N1	-6.25	119.58	122.70
36	1	549	U	N1-C2-N3	-6.25	111.15	114.90
36	1	3008	A	N1-C2-N3	6.25	132.42	129.30
85	5	496	C	N3-C4-N4	-6.25	113.63	118.00
85	5	1226	G	C8-N9-C4	6.25	108.90	106.40
85	5	1422	G	C5-C6-N1	6.25	114.62	111.50
85	5	1715	A	OP1-P-OP2	-6.25	110.23	119.60
85	5	2368	A	C6-N1-C2	-6.25	114.85	118.60
38	8	63	G	N9-C4-C5	6.25	107.90	105.40
36	1	154	U	C6-N1-C2	6.24	124.75	121.00
36	1	617	G	C5-C6-N1	-6.24	108.38	111.50
36	1	932	U	N3-C2-O2	-6.24	117.83	122.20
36	1	1333	C	C2-N1-C1'	6.24	125.67	118.80
36	1	1397	C	N3-C4-C5	-6.24	119.40	121.90
36	1	2139	A	N3-C4-C5	-6.24	122.43	126.80
36	1	2304	C	OP1-P-OP2	-6.24	110.23	119.60
36	1	3351	U	N3-C2-O2	6.24	126.57	122.20
38	4	10	A	O5'-P-OP1	6.24	118.19	110.70
80	6	438	A	N1-C2-N3	6.24	132.42	129.30
80	6	517	U	C5-C4-O4	6.24	129.65	125.90
80	6	534	A	C5-C6-N1	6.24	120.82	117.70
80	6	1526	A	C6-N1-C2	-6.24	114.85	118.60
85	5	917	A	C5-C6-N6	-6.24	118.71	123.70
85	5	1286	A	C5-C6-N1	6.24	120.82	117.70
85	5	1494	U	O5'-P-OP2	6.24	118.19	110.70
85	5	1544	G	N1-C2-N3	6.24	127.65	123.90
85	5	2584	G	OP1-P-OP2	6.24	128.96	119.60
85	5	3195	U	C6-N1-C2	6.24	124.75	121.00
1	2	1641	G	C5-C6-O6	-6.24	124.86	128.60
36	1	746	A	C8-N9-C4	-6.24	103.30	105.80
36	1	1896	A	N3-C4-C5	-6.24	122.43	126.80
36	1	2323	G	N9-C4-C5	6.24	107.90	105.40
85	5	373	A	N7-C8-N9	-6.24	110.68	113.80
85	5	1691	U	C2-N1-C1'	6.24	125.19	117.70
85	5	2286	U	C6-N1-C2	-6.24	117.25	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3186	A	C6-N1-C2	-6.24	114.86	118.60
85	5	3277	U	OP1-P-OP2	6.24	128.96	119.60
1	2	245	U	C6-N1-C2	6.24	124.74	121.00
1	2	462	G	C8-N9-C4	-6.24	103.90	106.40
36	1	26	A	N1-C2-N3	6.24	132.42	129.30
36	1	587	U	OP2-P-O3'	6.24	118.93	105.20
36	1	904	A	OP1-P-O3'	6.24	118.93	105.20
36	1	1437	C	C2-N1-C1'	6.24	125.66	118.80
36	1	2430	A	C4-C5-N7	6.24	113.82	110.70
36	1	2636	A	C5-C6-N1	6.24	120.82	117.70
36	1	3181	C	N1-C2-N3	6.24	123.57	119.20
38	4	83	C	C2-N3-C4	6.24	123.02	119.90
85	5	9	U	C6-N1-C2	6.24	124.74	121.00
85	5	46	U	N3-C2-O2	6.24	126.57	122.20
85	5	577	C	C2-N3-C4	-6.24	116.78	119.90
85	5	630	A	C4-C5-C6	6.24	120.12	117.00
85	5	899	U	C2-N3-C4	-6.24	123.26	127.00
85	5	937	G	C4-C5-C6	6.24	122.54	118.80
85	5	1069	C	N1-C2-O2	6.24	122.64	118.90
85	5	1927	G	OP1-P-OP2	6.24	128.96	119.60
85	5	3078	U	N1-C2-N3	6.24	118.64	114.90
85	5	3222	U	C6-N1-C1'	6.24	129.94	121.20
1	2	1110	G	N1-C6-O6	-6.24	116.16	119.90
1	2	1345	U	N3-C4-O4	6.24	123.77	119.40
1	2	1411	G	C2-N3-C4	-6.24	108.78	111.90
1	2	1593	G	N9-C4-C5	-6.24	102.91	105.40
1	2	1641	G	N3-C2-N2	-6.24	115.53	119.90
36	1	138	U	C4-C5-C6	6.24	123.44	119.70
36	1	1374	G	OP1-P-OP2	6.24	128.96	119.60
36	1	2180	G	C4-C5-N7	6.24	113.30	110.80
63	N7	135	ARG	NE-CZ-NH2	6.24	123.42	120.30
85	5	198	A	N9-C4-C5	-6.24	103.31	105.80
85	5	318	A	C6-N1-C2	-6.24	114.86	118.60
85	5	403	C	N3-C2-O2	-6.24	117.53	121.90
85	5	1042	U	N3-C2-O2	-6.24	117.83	122.20
85	5	1110	U	C2-N1-C1'	6.24	125.19	117.70
85	5	1554	U	N3-C2-O2	6.24	126.57	122.20
85	5	2096	A	C5-C6-N1	-6.24	114.58	117.70
85	5	2304	C	C4-C5-C6	6.24	120.52	117.40
85	5	2912	G	C4-C5-C6	6.24	122.54	118.80
85	5	3114	A	C4-C5-C6	6.24	120.12	117.00
85	5	3146	G	OP1-P-O3'	6.24	118.93	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	S6	94	ARG	NE-CZ-NH1	-6.24	117.18	120.30
36	1	252	U	O5'-P-OP2	6.24	118.18	110.70
36	1	408	A	N1-C2-N3	6.24	132.42	129.30
36	1	1403	C	C4-C5-C6	-6.24	114.28	117.40
36	1	1662	G	C5-N7-C8	6.24	107.42	104.30
36	1	2373	A	N7-C8-N9	6.24	116.92	113.80
52	M6	52	LEU	CB-CG-CD1	-6.24	100.40	111.00
85	5	507	U	N1-C2-O2	6.24	127.17	122.80
85	5	1594	A	O5'-P-OP2	-6.24	100.09	105.70
85	5	3303	G	O5'-P-OP2	-6.24	100.09	105.70
1	2	599	A	C2-N3-C4	6.24	113.72	110.60
1	2	997	G	C4-C5-C6	6.24	122.54	118.80
1	2	1307	G	N7-C8-N9	6.24	116.22	113.10
36	1	653	A	C6-N1-C2	-6.24	114.86	118.60
36	1	709	A	C5-C6-N1	6.24	120.82	117.70
36	1	981	U	N3-C4-O4	6.24	123.76	119.40
36	1	1578	C	N1-C2-N3	-6.24	114.84	119.20
36	1	1721	U	C5-C4-O4	6.24	129.64	125.90
36	1	2626	A	C8-N9-C4	6.24	108.29	105.80
36	1	2782	U	C5-C6-N1	-6.24	119.58	122.70
80	6	252	U	N1-C2-O2	-6.24	118.44	122.80
80	6	901	G	N1-C6-O6	6.24	123.64	119.90
80	6	1481	C	N1-C2-N3	6.24	123.56	119.20
85	5	1435	A	O5'-P-OP2	6.24	118.18	110.70
85	5	2715	A	O4'-C1'-N9	6.24	113.19	108.20
85	5	3130	A	C5-N7-C8	6.24	107.02	103.90
85	5	3295	A	O4'-C1'-N9	-6.24	103.21	108.20
85	5	3391	A	C8-N9-C4	6.24	108.30	105.80
38	8	122	U	OP1-P-OP2	-6.24	110.25	119.60
1	2	222	A	C4-C5-N7	6.23	113.82	110.70
1	2	847	U	OP1-P-OP2	6.23	128.95	119.60
1	2	1262	C	N3-C4-C5	-6.23	119.41	121.90
36	1	82	C	N3-C2-O2	6.23	126.26	121.90
36	1	217	U	OP1-P-OP2	6.23	128.95	119.60
36	1	912	G	N9-C4-C5	6.23	107.89	105.40
36	1	1412	G	C2-N3-C4	-6.23	108.78	111.90
36	1	1604	G	C8-N9-C4	-6.23	103.91	106.40
36	1	1913	A	N1-C2-N3	-6.23	126.18	129.30
36	1	2715	A	C4-C5-N7	-6.23	107.58	110.70
80	6	720	G	N1-C6-O6	-6.23	116.16	119.90
85	5	406	G	N3-C4-N9	-6.23	122.26	126.00
85	5	1374	G	OP1-P-OP2	-6.23	110.25	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3112	G	N1-C6-O6	6.23	123.64	119.90
1	2	119	A	N1-C6-N6	-6.23	114.86	118.60
1	2	799	G	C2-N3-C4	6.23	115.02	111.90
1	2	1087	U	O5'-P-OP1	6.23	118.18	110.70
1	2	1328	A	O5'-P-OP2	-6.23	100.09	105.70
36	1	229	G	N1-C2-N3	6.23	127.64	123.90
36	1	508	U	OP2-P-O3'	6.23	118.91	105.20
36	1	665	A	OP2-P-O3'	6.23	118.91	105.20
36	1	964	G	C4-C5-C6	-6.23	115.06	118.80
36	1	2591	A	N7-C8-N9	6.23	116.92	113.80
36	1	2618	G	N3-C4-C5	-6.23	125.48	128.60
36	1	3018	C	C6-N1-C2	-6.23	117.81	120.30
36	1	3056	U	C6-N1-C2	-6.23	117.26	121.00
36	1	3128	G	N3-C4-N9	6.23	129.74	126.00
36	1	3229	G	OP1-P-OP2	-6.23	110.25	119.60
36	1	3232	G	N3-C2-N2	-6.23	115.54	119.90
36	1	3308	C	N1-C2-O2	-6.23	115.16	118.90
80	6	539	G	N7-C8-N9	6.23	116.22	113.10
80	6	1011	G	C4-C5-N7	6.23	113.29	110.80
80	6	1421	A	C2-N3-C4	-6.23	107.48	110.60
80	6	1650	U	OP1-P-OP2	-6.23	110.25	119.60
85	5	254	A	C5-C6-N6	6.23	128.69	123.70
85	5	1147	G	N1-C2-N3	6.23	127.64	123.90
85	5	1193	A	O5'-P-OP1	-6.23	100.09	105.70
85	5	2198	A	C5-N7-C8	-6.23	100.78	103.90
85	5	3216	G	C5-C6-N1	6.23	114.62	111.50
37	7	95	A	N7-C8-N9	6.23	116.92	113.80
38	8	42	G	N1-C6-O6	6.23	123.64	119.90
1	2	276	C	C6-N1-C2	6.23	122.79	120.30
1	2	1244	G	N9-C4-C5	6.23	107.89	105.40
1	2	1445	G	N1-C2-N2	-6.23	110.59	116.20
36	1	257	U	OP1-P-OP2	-6.23	110.25	119.60
36	1	646	A	C2-N3-C4	-6.23	107.48	110.60
36	1	675	C	C2-N3-C4	-6.23	116.78	119.90
36	1	851	C	C4-C5-C6	-6.23	114.28	117.40
36	1	996	A	C6-N1-C2	-6.23	114.86	118.60
36	1	1387	G	C5-C6-N1	6.23	114.61	111.50
36	1	1525	G	C5-N7-C8	-6.23	101.18	104.30
77	Q1	17	ARG	NE-CZ-NH1	6.23	123.42	120.30
80	6	28	A	OP1-P-OP2	-6.23	110.25	119.60
80	6	1200	G	N1-C2-N2	6.23	121.81	116.20
85	5	163	C	O4'-C1'-N1	6.23	113.19	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	592	A	C5-C6-N1	-6.23	114.58	117.70
85	5	1337	A	O5'-P-OP1	6.23	118.18	110.70
85	5	1454	A	N1-C2-N3	6.23	132.42	129.30
85	5	2138	A	N1-C2-N3	6.23	132.41	129.30
85	5	2590	A	C5-C6-N1	-6.23	114.58	117.70
85	5	2608	G	N7-C8-N9	-6.23	109.98	113.10
85	5	2609	A	C6-N1-C2	-6.23	114.86	118.60
36	1	510	G	C8-N9-C4	-6.23	103.91	106.40
36	1	2269	U	C4-C5-C6	6.23	123.44	119.70
36	1	3268	A	N1-C6-N6	6.23	122.34	118.60
80	6	118	U	C5-C6-N1	-6.23	119.59	122.70
80	6	1729	C	C5-C4-N4	-6.23	115.84	120.20
85	5	319	A	N1-C2-N3	6.23	132.41	129.30
85	5	1829	G	C5-N7-C8	-6.23	101.19	104.30
85	5	2631	U	C6-N1-C2	-6.23	117.26	121.00
85	5	2633	U	C4-C5-C6	6.23	123.44	119.70
85	5	3083	G	OP1-P-O3'	6.23	118.90	105.20
1	2	194	U	C5-C6-N1	6.23	125.81	122.70
1	2	549	G	C5-C6-O6	6.23	132.34	128.60
1	2	645	C	C6-N1-C2	-6.23	117.81	120.30
36	1	284	A	N9-C4-C5	6.23	108.29	105.80
36	1	359	U	N1-C2-O2	6.23	127.16	122.80
36	1	1579	C	C6-N1-C2	-6.23	117.81	120.30
36	1	2218	G	N1-C2-N3	6.23	127.64	123.90
36	1	2770	G	N7-C8-N9	6.23	116.21	113.10
36	1	2792	A	OP1-P-O3'	6.23	118.90	105.20
36	1	2903	A	C8-N9-C4	6.23	108.29	105.80
36	1	3229	G	N1-C2-N2	6.23	121.81	116.20
80	6	357	G	C4-C5-C6	6.23	122.54	118.80
80	6	909	U	N1-C2-N3	6.23	118.64	114.90
80	6	1546	G	N1-C2-N2	-6.23	110.59	116.20
85	5	66	A	C4-C5-C6	6.23	120.11	117.00
85	5	360	G	O5'-P-OP1	6.23	118.17	110.70
85	5	770	G	O5'-P-OP2	6.23	118.17	110.70
85	5	1471	U	O5'-P-OP2	6.23	118.17	110.70
85	5	1635	G	C2-N3-C4	-6.23	108.79	111.90
1	2	1010	A	OP1-P-OP2	-6.23	110.26	119.60
36	1	771	A	C5-C6-N1	-6.23	114.59	117.70
36	1	2375	G	N1-C2-N2	-6.23	110.60	116.20
38	4	154	C	N3-C4-C5	-6.23	119.41	121.90
56	N0	167	ARG	N-CA-C	-6.23	94.19	111.00
85	5	949	C	C2-N1-C1'	6.23	125.65	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1377	G	N3-C2-N2	6.23	124.26	119.90
85	5	2861	U	N3-C4-C5	-6.23	110.86	114.60
85	5	3088	G	C4-C5-N7	-6.23	108.31	110.80
36	1	965	A	C5-C6-N6	6.22	128.68	123.70
36	1	967	A	N9-C4-C5	6.22	108.29	105.80
36	1	1143	A	C6-N1-C2	-6.22	114.87	118.60
36	1	1324	U	N3-C4-O4	-6.22	115.04	119.40
36	1	1910	A	C5-C6-N6	6.22	128.68	123.70
36	1	2890	A	C5-C6-N6	6.22	128.68	123.70
36	1	3328	G	C5-N7-C8	-6.22	101.19	104.30
80	6	51	A	N1-C2-N3	6.22	132.41	129.30
80	6	1100	G	C4-N9-C1'	6.22	134.59	126.50
80	6	1291	G	C8-N9-C4	-6.22	103.91	106.40
85	5	70	A	N7-C8-N9	6.22	116.91	113.80
85	5	695	C	O4'-C1'-N1	-6.22	103.22	108.20
85	5	1444	G	C8-N9-C1'	-6.22	118.91	127.00
36	1	498	A	N1-C6-N6	-6.22	114.87	118.60
36	1	592	A	N1-C6-N6	6.22	122.33	118.60
36	1	694	C	C2-N3-C4	6.22	123.01	119.90
36	1	1022	U	C5-C4-O4	-6.22	122.17	125.90
36	1	1747	G	N1-C2-N2	6.22	121.80	116.20
38	4	26	U	C2-N3-C4	6.22	130.73	127.00
38	4	156	U	C5-C4-O4	-6.22	122.17	125.90
80	6	913	G	C6-N1-C2	6.22	128.83	125.10
80	6	1485	C	C4-C5-C6	-6.22	114.29	117.40
85	5	184	U	N3-C4-C5	6.22	118.33	114.60
85	5	363	G	N7-C8-N9	6.22	116.21	113.10
85	5	505	G	N1-C6-O6	6.22	123.63	119.90
85	5	1540	U	N1-C2-N3	6.22	118.63	114.90
85	5	1673	G	N3-C4-N9	6.22	129.73	126.00
85	5	1708	C	C6-N1-C2	6.22	122.79	120.30
85	5	1818	U	C5-C4-O4	-6.22	122.17	125.90
85	5	2163	C	C5-C6-N1	6.22	124.11	121.00
37	7	64	A	OP1-P-O3'	-6.22	91.51	105.20
1	2	1619	C	C6-N1-C2	-6.22	117.81	120.30
36	1	115	A	C6-N1-C2	-6.22	114.87	118.60
36	1	3080	G	C8-N9-C4	-6.22	103.91	106.40
85	5	346	C	OP1-P-OP2	6.22	128.93	119.60
85	5	1024	G	N3-C4-N9	6.22	129.73	126.00
38	8	93	U	N3-C4-C5	6.22	118.33	114.60
1	2	325	G	N1-C6-O6	6.22	123.63	119.90
1	2	712	G	C2-N3-C4	6.22	115.01	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	954	A	O5'-P-OP2	6.22	118.16	110.70
36	1	274	G	N3-C4-C5	6.22	131.71	128.60
36	1	341	G	C4-C5-C6	6.22	122.53	118.80
36	1	721	G	C4-C5-N7	6.22	113.29	110.80
36	1	2186	U	N3-C2-O2	-6.22	117.85	122.20
80	6	315	A	C8-N9-C4	-6.22	103.31	105.80
85	5	365	A	OP1-P-O3'	6.22	118.88	105.20
85	5	803	C	N3-C4-C5	-6.22	119.41	121.90
85	5	963	G	OP2-P-O3'	-6.22	91.52	105.20
85	5	967	A	C8-N9-C4	-6.22	103.31	105.80
85	5	1405	U	O5'-P-OP2	-6.22	100.10	105.70
85	5	1596	C	N3-C4-N4	6.22	122.35	118.00
85	5	2101	C	C6-N1-C2	6.22	122.79	120.30
85	5	3023	U	N1-C2-N3	-6.22	111.17	114.90
38	8	97	A	C5-C6-N6	6.22	128.68	123.70
1	2	817	G	N1-C6-O6	6.22	123.63	119.90
1	2	1151	U	N1-C2-N3	6.22	118.63	114.90
36	1	781	G	C5-N7-C8	-6.22	101.19	104.30
36	1	1101	G	OP1-P-OP2	6.22	128.93	119.60
37	3	13	A	C4-C5-N7	6.22	113.81	110.70
85	5	325	A	C4-C5-C6	6.22	120.11	117.00
85	5	785	G	C5-C6-O6	-6.22	124.87	128.60
85	5	2865	U	OP1-P-OP2	-6.22	110.27	119.60
85	5	2943	G	OP1-P-O3'	6.22	118.88	105.20
1	2	1160	C	N1-C2-O2	6.22	122.63	118.90
36	1	639	G	N1-C2-N3	6.22	127.63	123.90
36	1	639	G	C4-C5-N7	-6.22	108.31	110.80
36	1	1399	A	N3-C4-C5	6.22	131.15	126.80
36	1	1680	G	C4-C5-N7	-6.22	108.31	110.80
36	1	2221	G	N3-C4-C5	6.22	131.71	128.60
38	4	155	A	C2-N3-C4	-6.22	107.49	110.60
59	N3	45	ARG	NE-CZ-NH1	-6.22	117.19	120.30
80	6	41	A	C6-N1-C2	-6.22	114.87	118.60
80	6	108	A	N1-C6-N6	-6.22	114.87	118.60
80	6	318	U	C5-C6-N1	-6.22	119.59	122.70
85	5	1483	G	C5-N7-C8	6.22	107.41	104.30
85	5	1641	U	C2-N3-C4	-6.22	123.27	127.00
85	5	1896	A	C5-C6-N1	6.22	120.81	117.70
85	5	2272	G	O5'-P-OP1	-6.22	100.11	105.70
85	5	2295	A	C6-N1-C2	-6.22	114.87	118.60
85	5	2846	U	C4-C5-C6	-6.22	115.97	119.70
38	8	26	U	C5-C4-O4	6.22	129.63	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	277	U	N3-C4-O4	6.21	123.75	119.40
36	1	58	G	C5-C6-O6	6.21	132.33	128.60
36	1	322	U	C5-C6-N1	-6.21	119.59	122.70
36	1	717	C	N3-C4-N4	-6.21	113.65	118.00
36	1	1067	U	OP1-P-OP2	6.21	128.92	119.60
36	1	1500	G	N3-C4-N9	-6.21	122.27	126.00
36	1	1605	A	C8-N9-C4	-6.21	103.31	105.80
36	1	1790	G	C4-C5-C6	6.21	122.53	118.80
36	1	3107	U	C4-C5-C6	6.21	123.43	119.70
44	L7	106	LEU	CB-CG-CD2	-6.21	100.43	111.00
80	6	21	U	C4-C5-C6	6.21	123.43	119.70
80	6	539	G	N1-C6-O6	6.21	123.63	119.90
80	6	1055	U	C6-N1-C2	-6.21	117.27	121.00
80	6	1565	C	C5-C4-N4	-6.21	115.85	120.20
80	6	1613	U	C5-C6-N1	-6.21	119.59	122.70
80	6	1654	G	O5'-P-OP2	-6.21	100.11	105.70
80	6	1703	C	C6-N1-C2	-6.21	117.81	120.30
85	5	268	A	C6-N1-C2	-6.21	114.87	118.60
85	5	1087	G	C8-N9-C4	-6.21	103.91	106.40
85	5	1776	G	N3-C4-N9	-6.21	122.27	126.00
85	5	3251	U	N1-C2-O2	6.21	127.15	122.80
85	5	3389	U	O5'-P-OP1	-6.21	100.11	105.70
1	2	356	G	N1-C6-O6	6.21	123.63	119.90
36	1	228	U	C2-N3-C4	-6.21	123.27	127.00
36	1	1708	C	C2-N3-C4	-6.21	116.79	119.90
36	1	2215	A	C5-C6-N1	-6.21	114.59	117.70
36	1	2910	A	N1-C2-N3	6.21	132.41	129.30
80	6	25	C	N3-C4-C5	-6.21	119.42	121.90
85	5	420	G	N3-C4-N9	6.21	129.73	126.00
85	5	1336	U	N1-C2-O2	-6.21	118.45	122.80
85	5	1430	U	N1-C2-O2	-6.21	118.45	122.80
85	5	1894	U	C5-C6-N1	-6.21	119.59	122.70
85	5	3129	A	C5-C6-N1	6.21	120.81	117.70
85	5	3140	G	N1-C2-N3	6.21	127.63	123.90
85	5	3169	U	C5-C6-N1	-6.21	119.59	122.70
1	2	315	A	C5-C6-N6	-6.21	118.73	123.70
1	2	761	G	C6-N1-C2	6.21	128.83	125.10
1	2	881	A	C2-N3-C4	6.21	113.70	110.60
1	2	1289	C	C5-C4-N4	-6.21	115.85	120.20
36	1	345	G	C2-N3-C4	-6.21	108.79	111.90
36	1	507	U	C5-C6-N1	6.21	125.81	122.70
36	1	623	U	N3-C4-C5	6.21	118.33	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	940	G	C6-N1-C2	-6.21	121.37	125.10
36	1	1228	C	N3-C2-O2	-6.21	117.55	121.90
36	1	1640	G	N1-C6-O6	-6.21	116.17	119.90
36	1	1709	C	C6-N1-C2	6.21	122.78	120.30
36	1	2511	A	C8-N9-C4	-6.21	103.31	105.80
36	1	3075	G	N7-C8-N9	-6.21	110.00	113.10
37	3	119	U	C5-C6-N1	-6.21	119.59	122.70
80	6	789	A	C2-N3-C4	-6.21	107.49	110.60
80	6	1376	C	N3-C2-O2	6.21	126.25	121.90
85	5	206	G	OP1-P-OP2	-6.21	110.28	119.60
85	5	1718	G	C4-C5-N7	6.21	113.28	110.80
85	5	1792	C	N1-C2-N3	6.21	123.55	119.20
85	5	2261	G	C8-N9-C4	6.21	108.88	106.40
85	5	2962	U	N1-C2-O2	-6.21	118.45	122.80
85	5	3368	U	C5-C6-N1	-6.21	119.59	122.70
38	8	54	A	N1-C2-N3	6.21	132.41	129.30
38	8	80	A	OP2-P-O3'	6.21	118.86	105.20
1	2	361	C	OP1-P-O3'	6.21	118.86	105.20
1	2	1579	C	OP1-P-OP2	-6.21	110.28	119.60
36	1	3362	A	N3-C4-C5	6.21	131.15	126.80
38	4	54	A	C6-C5-N7	-6.21	127.95	132.30
80	6	103	A	C6-N1-C2	-6.21	114.87	118.60
85	5	868	C	O5'-P-OP1	6.21	118.15	110.70
85	5	914	A	C4-C5-N7	6.21	113.81	110.70
85	5	3125	U	N1-C2-N3	6.21	118.63	114.90
85	5	3296	A	OP2-P-O3'	6.21	118.86	105.20
1	2	92	A	C6-C5-N7	6.21	136.65	132.30
1	2	723	A	OP1-P-OP2	6.21	128.91	119.60
1	2	1409	C	C4-C5-C6	-6.21	114.30	117.40
36	1	173	G	C4-C5-N7	-6.21	108.32	110.80
36	1	1163	A	C6-N1-C2	-6.21	114.88	118.60
36	1	2150	G	N1-C6-O6	6.21	123.63	119.90
36	1	2326	A	N3-C4-N9	-6.21	122.43	127.40
36	1	2998	U	C6-N1-C2	-6.21	117.28	121.00
80	6	461	G	N3-C2-N2	6.21	124.25	119.90
80	6	1118	G	C6-C5-N7	-6.21	126.67	130.40
80	6	1312	A	C8-N9-C4	6.21	108.28	105.80
85	5	1114	U	OP1-P-O3'	6.21	118.86	105.20
85	5	1689	U	C5-C6-N1	6.21	125.80	122.70
85	5	1782	U	OP1-P-OP2	6.21	128.91	119.60
85	5	2669	G	O5'-P-OP1	6.21	118.15	110.70
85	5	2783	U	C2-N3-C4	-6.21	123.27	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3200	G	N1-C6-O6	6.21	123.62	119.90
1	2	1153	G	C5-C6-O6	-6.21	124.88	128.60
1	2	1344	U	N1-C2-N3	-6.21	111.18	114.90
36	1	366	A	C2-N3-C4	-6.21	107.50	110.60
36	1	848	A	C8-N9-C4	6.21	108.28	105.80
36	1	1830	G	C8-N9-C4	-6.21	103.92	106.40
36	1	2951	G	C5-C6-N1	6.21	114.60	111.50
36	1	2969	A	N1-C2-N3	6.21	132.40	129.30
80	6	318	U	N3-C4-C5	-6.21	110.88	114.60
80	6	998	A	N9-C4-C5	6.21	108.28	105.80
80	6	1658	G	N3-C4-C5	6.21	131.70	128.60
85	5	217	U	OP1-P-O3'	6.21	118.85	105.20
85	5	978	G	N3-C2-N2	6.21	124.24	119.90
85	5	1002	A	O5'-P-OP2	-6.21	100.11	105.70
85	5	2231	C	N1-C2-O2	-6.21	115.18	118.90
85	5	2617	U	N3-C2-O2	6.21	126.55	122.20
85	5	2680	A	C2-N3-C4	6.21	113.70	110.60
85	5	2885	C	O5'-P-OP1	6.21	118.15	110.70
85	5	3299	A	C5-C6-N6	6.21	128.66	123.70
37	7	33	U	N3-C4-O4	6.21	123.75	119.40
38	8	12	A	C6-N1-C2	-6.21	114.88	118.60
40	13	43	LEU	CB-CG-CD1	-6.21	100.45	111.00
1	2	1121	A	N1-C6-N6	-6.21	114.88	118.60
36	1	92	G	C5'-C4'-C3'	-6.21	106.07	116.00
36	1	589	A	C2-N3-C4	6.21	113.70	110.60
36	1	1131	G	N3-C4-C5	-6.21	125.50	128.60
36	1	3196	U	N1-C2-O2	6.21	127.14	122.80
80	6	7	G	O5'-P-OP1	-6.21	100.12	105.70
80	6	20	G	C2-N3-C4	-6.21	108.80	111.90
80	6	840	U	N3-C4-O4	-6.21	115.06	119.40
80	6	1044	U	OP1-P-O3'	6.21	118.85	105.20
85	5	78	U	N1-C2-N3	6.21	118.62	114.90
85	5	520	U	O5'-P-OP1	-6.21	100.12	105.70
85	5	2197	C	N3-C4-N4	6.21	122.34	118.00
85	5	2623	G	C5-N7-C8	6.21	107.40	104.30
36	1	91	G	P-O3'-C3'	-6.20	112.26	119.70
36	1	347	G	N1-C2-N2	-6.20	110.62	116.20
36	1	848	A	C5-C6-N6	6.20	128.66	123.70
36	1	1199	C	C5-C4-N4	6.20	124.54	120.20
36	1	1419	A	C4-C5-C6	6.20	120.10	117.00
36	1	1420	C	N1-C2-N3	6.20	123.54	119.20
36	1	3189	G	C5-C6-O6	6.20	132.32	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	537	G	C4-C5-N7	6.20	113.28	110.80
80	6	1477	G	C5-C6-N1	-6.20	108.40	111.50
80	6	1568	C	P-O3'-C3'	6.20	127.14	119.70
85	5	1559	A	C5-C6-N1	-6.20	114.60	117.70
85	5	1686	U	N1-C2-N3	6.20	118.62	114.90
85	5	1849	C	OP1-P-OP2	-6.20	110.30	119.60
85	5	1896	A	C4-C5-N7	6.20	113.80	110.70
85	5	1953	G	N3-C2-N2	6.20	124.24	119.90
85	5	2112	U	OP1-P-OP2	6.20	128.91	119.60
85	5	2588	U	C4-C5-C6	6.20	123.42	119.70
85	5	3056	U	C6-N1-C2	-6.20	117.28	121.00
85	5	3060	C	O5'-P-OP1	-6.20	100.12	105.70
38	8	3	A	C6-N1-C2	-6.20	114.88	118.60
1	2	304	U	N3-C4-C5	-6.20	110.88	114.60
1	2	685	G	C4-C5-N7	6.20	113.28	110.80
36	1	440	A	C4-C5-C6	-6.20	113.90	117.00
36	1	1517	G	O5'-P-OP1	6.20	118.14	110.70
36	1	2777	G	N1-C2-N3	6.20	127.62	123.90
85	5	236	G	C6-N1-C2	6.20	128.82	125.10
85	5	582	G	N9-C4-C5	6.20	107.88	105.40
1	2	1150	G	N1-C6-O6	6.20	123.62	119.90
1	2	1543	U	C6-N1-C2	-6.20	117.28	121.00
36	1	77	A	N9-C4-C5	6.20	108.28	105.80
36	1	224	C	C4-C5-C6	-6.20	114.30	117.40
36	1	617	G	C2-N3-C4	-6.20	108.80	111.90
36	1	1392	G	C5-N7-C8	6.20	107.40	104.30
38	4	144	G	C4-C5-C6	6.20	122.52	118.80
80	6	265	A	N1-C2-N3	6.20	132.40	129.30
80	6	1058	U	P-O3'-C3'	6.20	127.14	119.70
80	6	1396	U	C6-N1-C2	-6.20	117.28	121.00
80	6	1788	G	N1-C6-O6	6.20	123.62	119.90
85	5	503	C	OP1-P-OP2	-6.20	110.30	119.60
85	5	526	C	N3-C2-O2	-6.20	117.56	121.90
85	5	700	C	OP1-P-OP2	-6.20	110.30	119.60
85	5	771	A	C8-N9-C4	-6.20	103.32	105.80
85	5	1018	G	N3-C4-C5	-6.20	125.50	128.60
85	5	1131	G	N7-C8-N9	6.20	116.20	113.10
85	5	1307	G	C2'-C3'-O3'	6.20	123.62	113.70
85	5	2236	G	OP2-P-O3'	6.20	118.84	105.20
85	5	2319	U	C5-C4-O4	6.20	129.62	125.90
85	5	2794	G	N3-C4-C5	-6.20	125.50	128.60
85	5	3042	U	N3-C2-O2	6.20	126.54	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	7	19	C	O5'-P-OP1	6.20	118.14	110.70
37	7	72	A	C5-C6-N6	-6.20	118.74	123.70
1	2	1035	U	C2-N1-C1'	6.20	125.14	117.70
1	2	1172	A	C8-N9-C4	6.20	108.28	105.80
36	1	263	C	OP1-P-OP2	6.20	128.90	119.60
36	1	421	G	C8-N9-C4	6.20	108.88	106.40
36	1	2759	U	OP2-P-O3'	6.20	118.84	105.20
36	1	2852	C	C2-N1-C1'	6.20	125.62	118.80
45	L8	65	LEU	CA-CB-CG	6.20	129.56	115.30
80	6	8	U	O5'-P-OP2	-6.20	100.12	105.70
80	6	869	A	N1-C2-N3	6.20	132.40	129.30
80	6	1286	U	N3-C4-O4	-6.20	115.06	119.40
80	6	1473	U	C2-N3-C4	6.20	130.72	127.00
85	5	638	C	C5-C6-N1	6.20	124.10	121.00
85	5	990	U	OP1-P-OP2	-6.20	110.30	119.60
85	5	1136	A	N1-C6-N6	6.20	122.32	118.60
85	5	1523	U	N3-C2-O2	-6.20	117.86	122.20
85	5	2104	A	C2-N3-C4	-6.20	107.50	110.60
1	2	140	A	OP1-P-OP2	-6.20	110.31	119.60
1	2	920	C	N3-C4-C5	-6.20	119.42	121.90
1	2	1287	G	C5-C6-N1	-6.20	108.40	111.50
1	2	1538	A	C4-C5-C6	6.20	120.10	117.00
36	1	172	G	N3-C4-N9	6.20	129.72	126.00
36	1	761	A	C6-C5-N7	-6.20	127.96	132.30
36	1	805	G	OP2-P-O3'	6.20	118.83	105.20
36	1	988	U	N3-C4-O4	6.20	123.74	119.40
36	1	1045	C	N3-C4-N4	6.20	122.34	118.00
36	1	1066	G	N1-C2-N2	-6.20	110.62	116.20
36	1	1501	U	N1-C2-N3	-6.20	111.18	114.90
36	1	1648	A	N7-C8-N9	-6.20	110.70	113.80
36	1	2777	G	N3-C4-N9	-6.20	122.28	126.00
80	6	1044	U	C5-C6-N1	-6.20	119.60	122.70
80	6	1221	A	C8-N9-C4	6.20	108.28	105.80
85	5	860	G	O5'-P-OP2	-6.20	100.12	105.70
85	5	2563	G	C2-N3-C4	6.20	115.00	111.90
1	2	6	G	C5-C6-O6	6.20	132.32	128.60
1	2	1256	G	O5'-P-OP1	-6.20	100.12	105.70
1	2	1400	A	N1-C2-N3	6.20	132.40	129.30
1	2	1489	G	N1-C6-O6	-6.20	116.18	119.90
36	1	264	G	N3-C4-C5	6.20	131.70	128.60
36	1	331	G	N1-C2-N3	6.20	127.62	123.90
36	1	939	U	OP2-P-O3'	6.20	118.83	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1359	C	C2-N3-C4	-6.20	116.80	119.90
36	1	1386	A	O5'-P-OP1	-6.20	100.12	105.70
36	1	1619	A	C5-C6-N6	-6.20	118.74	123.70
36	1	2152	A	C8-N9-C4	-6.20	103.32	105.80
38	4	32	C	C5-C4-N4	-6.20	115.86	120.20
80	6	12	U	C6-N1-C2	-6.20	117.28	121.00
80	6	1607	G	N1-C6-O6	-6.20	116.18	119.90
85	5	41	G	N1-C2-N2	-6.20	110.62	116.20
85	5	44	U	N1-C2-O2	6.20	127.14	122.80
85	5	93	C	C2-N3-C4	6.20	123.00	119.90
85	5	404	G	C5-N7-C8	-6.20	101.20	104.30
85	5	437	G	C4-N9-C1'	-6.20	118.45	126.50
85	5	843	A	C5-N7-C8	-6.20	100.80	103.90
85	5	1102	A	C5-N7-C8	-6.20	100.80	103.90
85	5	2219	A	O4'-C1'-N9	6.20	113.16	108.20
85	5	2724	U	C2-N3-C4	6.20	130.72	127.00
71	o5	38	ARG	NE-CZ-NH2	6.20	123.40	120.30
1	2	36	C	OP1-P-O3'	6.19	118.83	105.20
36	1	1030	A	N9-C4-C5	-6.19	103.32	105.80
36	1	1898	G	C2-N3-C4	6.19	115.00	111.90
80	6	1459	C	N1-C2-O2	6.19	122.62	118.90
85	5	315	C	C6-N1-C2	-6.19	117.82	120.30
85	5	1323	G	OP1-P-OP2	-6.19	110.31	119.60
85	5	2341	A	N1-C2-N3	6.19	132.40	129.30
38	8	148	G	C2-N3-C4	-6.19	108.80	111.90
1	2	717	A	P-O3'-C3'	6.19	127.13	119.70
1	2	975	A	N7-C8-N9	6.19	116.90	113.80
36	1	2608	G	OP2-P-O3'	6.19	118.82	105.20
80	6	76	A	OP1-P-O3'	6.19	118.82	105.20
80	6	368	U	N1-C2-O2	6.19	127.14	122.80
80	6	389	G	OP1-P-OP2	6.19	128.89	119.60
80	6	1738	U	N1-C2-N3	6.19	118.62	114.90
85	5	66	A	N1-C2-N3	6.19	132.40	129.30
85	5	560	G	N1-C6-O6	6.19	123.62	119.90
85	5	1603	A	C5-N7-C8	6.19	107.00	103.90
85	5	2375	G	N7-C8-N9	6.19	116.20	113.10
85	5	2900	A	C5-C6-N1	6.19	120.80	117.70
40	l3	233	TRP	C-N-CA	-6.19	109.29	122.30
1	2	1265	U	C2-N3-C4	-6.19	123.29	127.00
1	2	1377	G	C5-C6-N1	6.19	114.59	111.50
36	1	76	G	N1-C2-N3	6.19	127.61	123.90
36	1	687	U	N3-C4-O4	6.19	123.73	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	912	G	OP2-P-O3'	6.19	118.82	105.20
36	1	1146	C	N3-C4-C5	6.19	124.38	121.90
36	1	1820	U	N3-C4-O4	-6.19	115.07	119.40
36	1	1853	U	C5-C4-O4	6.19	129.61	125.90
36	1	1885	U	N3-C2-O2	6.19	126.53	122.20
36	1	2297	U	N3-C4-C5	-6.19	110.89	114.60
36	1	3038	U	C2-N3-C4	6.19	130.71	127.00
36	1	3147	G	C8-N9-C4	6.19	108.88	106.40
80	6	106	U	OP2-P-O3'	6.19	118.82	105.20
80	6	677	G	N9-C4-C5	-6.19	102.92	105.40
80	6	678	A	N1-C2-N3	-6.19	126.20	129.30
80	6	1666	U	OP1-P-O3'	-6.19	91.58	105.20
4	s2	76	LEU	CB-CG-CD2	-6.19	100.48	111.00
85	5	413	U	C5-C4-O4	-6.19	122.19	125.90
85	5	2197	C	O5'-P-OP1	-6.19	100.13	105.70
85	5	2637	A	C4-C5-C6	6.19	120.09	117.00
37	7	71	G	C2-N3-C4	-6.19	108.81	111.90
38	8	75	G	C5-C6-N1	-6.19	108.40	111.50
1	2	810	C	C5-C6-N1	6.19	124.09	121.00
36	1	430	U	N3-C4-C5	-6.19	110.89	114.60
36	1	1912	U	N1-C2-N3	-6.19	111.19	114.90
36	1	3061	G	O5'-P-OP2	6.19	118.13	110.70
80	6	1300	A	N9-C4-C5	6.19	108.28	105.80
85	5	868	C	N3-C4-N4	6.19	122.33	118.00
85	5	1174	G	C5-N7-C8	-6.19	101.21	104.30
85	5	2707	C	C5-C4-N4	6.19	124.53	120.20
85	5	2972	G	OP1-P-O3'	6.19	118.81	105.20
36	1	348	A	OP1-P-OP2	6.19	128.88	119.60
36	1	999	G	C6-C5-N7	6.19	134.11	130.40
36	1	1445	U	C5-C6-N1	6.19	125.79	122.70
36	1	2761	G	N1-C2-N3	6.19	127.61	123.90
36	1	3033	A	C6-C5-N7	-6.19	127.97	132.30
36	1	3113	A	N9-C4-C5	6.19	108.28	105.80
36	1	3245	A	C2-N3-C4	-6.19	107.51	110.60
36	1	3257	C	N1-C2-O2	6.19	122.61	118.90
38	4	95	G	OP1-P-OP2	6.19	128.88	119.60
58	N2	74	LYS	CD-CE-NZ	6.19	125.93	111.70
71	O5	46	THR	CA-C-O	-6.19	107.11	120.10
80	6	144	U	N1-C2-N3	6.19	118.61	114.90
80	6	1636	C	C2-N1-C1'	6.19	125.61	118.80
85	5	1807	G	C6-C5-N7	-6.19	126.69	130.40
85	5	2157	G	N3-C4-N9	6.19	129.71	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2374	C	OP2-P-O3'	6.19	118.81	105.20
85	5	2854	U	N3-C2-O2	6.19	126.53	122.20
75	o9	42	ARG	NE-CZ-NH2	6.19	123.39	120.30
1	2	36	C	N1-C2-O2	-6.19	115.19	118.90
1	2	1251	G	C2-N3-C4	6.19	114.99	111.90
36	1	663	C	OP1-P-OP2	-6.19	110.32	119.60
36	1	1189	C	C2-N3-C4	-6.19	116.81	119.90
36	1	2373	A	C4-C5-C6	6.19	120.09	117.00
36	1	2381	G	C4-N9-C1'	6.19	134.54	126.50
36	1	2410	U	OP2-P-O3'	6.19	118.81	105.20
46	L9	153	ASP	CB-CG-OD1	-6.19	112.73	118.30
80	6	320	U	N3-C4-O4	-6.19	115.07	119.40
80	6	379	U	O5'-P-OP1	-6.19	100.13	105.70
80	6	1526	A	OP1-P-OP2	6.19	128.88	119.60
80	6	1733	C	C6-N1-C2	-6.19	117.83	120.30
80	6	1781	A	O5'-P-OP2	-6.19	100.13	105.70
85	5	149	U	N1-C2-N3	6.19	118.61	114.90
85	5	562	C	N3-C2-O2	6.19	126.23	121.90
85	5	1534	A	N1-C6-N6	6.19	122.31	118.60
85	5	1586	G	C4-C5-N7	-6.19	108.33	110.80
1	2	292	U	C6-N1-C2	-6.18	117.29	121.00
36	1	290	G	C2-N3-C4	6.18	114.99	111.90
36	1	368	G	O5'-P-OP1	6.18	118.12	110.70
36	1	860	G	N3-C2-N2	-6.18	115.57	119.90
36	1	2820	A	N9-C4-C5	6.18	108.27	105.80
36	1	3328	G	O5'-P-OP1	-6.18	100.14	105.70
38	4	50	C	C5-C6-N1	-6.18	117.91	121.00
80	6	10	G	C6-C5-N7	-6.18	126.69	130.40
80	6	692	C	C2-N3-C4	6.18	122.99	119.90
80	6	1122	G	C4-C5-C6	6.18	122.51	118.80
80	6	1761	U	N3-C4-C5	-6.18	110.89	114.60
85	5	742	G	C6-N1-C2	-6.18	121.39	125.10
85	5	1115	G	C4-C5-C6	6.18	122.51	118.80
85	5	2150	G	O4'-C1'-N9	6.18	113.15	108.20
85	5	2179	C	OP2-P-O3'	6.18	118.81	105.20
85	5	2209	U	N3-C4-C5	-6.18	110.89	114.60
85	5	2216	G	OP1-P-OP2	-6.18	110.32	119.60
85	5	2955	U	OP2-P-O3'	6.18	118.81	105.20
85	5	3183	A	C4-C5-C6	6.18	120.09	117.00
85	5	3232	G	N1-C2-N3	6.18	127.61	123.90
1	2	565	C	C2-N1-C1'	6.18	125.60	118.80
1	2	608	U	OP2-P-O3'	6.18	118.80	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	144	A	O5'-P-OP1	6.18	118.12	110.70
36	1	494	G	C5-N7-C8	6.18	107.39	104.30
36	1	653	A	C5-C6-N1	6.18	120.79	117.70
36	1	801	A	C4-C5-C6	6.18	120.09	117.00
36	1	1418	A	C5-C6-N6	-6.18	118.75	123.70
36	1	1438	U	OP1-P-O3'	6.18	118.80	105.20
36	1	2864	A	OP2-P-O3'	6.18	118.80	105.20
80	6	971	A	N1-C2-N3	6.18	132.39	129.30
80	6	1537	C	N1-C2-N3	-6.18	114.87	119.20
80	6	1792	G	C4-C5-N7	-6.18	108.33	110.80
85	5	674	G	N3-C4-C5	6.18	131.69	128.60
85	5	857	G	N1-C2-N2	6.18	121.76	116.20
85	5	873	C	N3-C4-C5	-6.18	119.43	121.90
85	5	1369	A	C2-N3-C4	-6.18	107.51	110.60
85	5	2250	G	C4-C5-C6	-6.18	115.09	118.80
1	2	450	U	N3-C4-C5	-6.18	110.89	114.60
1	2	1736	A	C6-C5-N7	-6.18	127.97	132.30
36	1	721	G	N7-C8-N9	6.18	116.19	113.10
36	1	2406	C	N1-C2-O2	-6.18	115.19	118.90
36	1	3208	G	C2-N3-C4	6.18	114.99	111.90
80	6	1018	U	N1-C2-O2	-6.18	118.47	122.80
85	5	45	A	N1-C6-N6	6.18	122.31	118.60
85	5	1088	U	C2-N3-C4	6.18	130.71	127.00
85	5	1528	G	N1-C6-O6	-6.18	116.19	119.90
85	5	2437	G	C5-C6-O6	-6.18	124.89	128.60
85	5	2619	G	O4'-C1'-N9	-6.18	103.25	108.20
85	5	3234	A	C4-C5-N7	-6.18	107.61	110.70
1	2	470	A	C8-N9-C4	6.18	108.27	105.80
1	2	832	C	N3-C2-O2	-6.18	117.57	121.90
1	2	1157	C	C6-N1-C2	6.18	122.77	120.30
1	2	1486	A	O4'-C1'-N9	6.18	113.14	108.20
36	1	24	G	C4-C5-C6	6.18	122.51	118.80
36	1	666	A	C8-N9-C4	6.18	108.27	105.80
36	1	1148	G	C8-N9-C4	6.18	108.87	106.40
36	1	2190	U	C6-N1-C2	-6.18	117.29	121.00
80	6	25	C	C4-C5-C6	-6.18	114.31	117.40
80	6	709	C	C6-N1-C2	6.18	122.77	120.30
80	6	796	A	C5-N7-C8	-6.18	100.81	103.90
80	6	1610	G	C8-N9-C4	6.18	108.87	106.40
85	5	115	A	C5-C6-N1	-6.18	114.61	117.70
85	5	416	A	OP2-P-O3'	6.18	118.80	105.20
85	5	945	C	C5-C6-N1	-6.18	117.91	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1395	G	N1-C2-N3	6.18	127.61	123.90
85	5	1433	A	OP1-P-OP2	-6.18	110.33	119.60
85	5	2138	A	C5-N7-C8	-6.18	100.81	103.90
85	5	2705	A	N1-C6-N6	6.18	122.31	118.60
85	5	2967	A	N3-C4-C5	-6.18	122.47	126.80
37	7	22	A	C8-N9-C4	6.18	108.27	105.80
38	8	93	U	C6-N1-C2	6.18	124.71	121.00
36	1	1012	G	C5-C6-N1	6.18	114.59	111.50
36	1	1704	A	N1-C2-N3	6.18	132.39	129.30
36	1	2764	C	N3-C4-C5	-6.18	119.43	121.90
36	1	2887	A	OP1-P-OP2	6.18	128.87	119.60
85	5	104	G	C5-N7-C8	-6.18	101.21	104.30
85	5	1115	G	C5-N7-C8	-6.18	101.21	104.30
85	5	1118	C	O5'-P-OP1	6.18	118.11	110.70
85	5	1529	A	C2-N3-C4	-6.18	107.51	110.60
85	5	1775	G	N3-C4-N9	6.18	129.71	126.00
85	5	2280	A	C4-C5-C6	6.18	120.09	117.00
85	5	2794	G	OP2-P-O3'	6.18	118.79	105.20
37	7	4	U	C4-C5-C6	6.18	123.41	119.70
1	2	207	U	C5-C6-N1	-6.18	119.61	122.70
36	1	14	U	C4-C5-C6	6.18	123.41	119.70
36	1	502	U	OP1-P-OP2	-6.18	110.33	119.60
36	1	868	C	N3-C4-N4	6.18	122.32	118.00
36	1	901	G	C6-N1-C2	-6.18	121.39	125.10
36	1	944	C	N1-C2-N3	-6.18	114.88	119.20
36	1	1146	C	C5-C4-N4	-6.18	115.88	120.20
36	1	1901	A	C5-C6-N1	6.18	120.79	117.70
36	1	2114	C	C5-C6-N1	-6.18	117.91	121.00
80	6	655	G	C5-N7-C8	-6.18	101.21	104.30
85	5	805	G	N7-C8-N9	-6.18	110.01	113.10
85	5	2167	A	C4-C5-C6	6.18	120.09	117.00
85	5	2305	G	N1-C6-O6	-6.18	116.19	119.90
85	5	2598	G	O5'-P-OP2	-6.18	100.14	105.70
85	5	2705	A	N7-C8-N9	6.18	116.89	113.80
85	5	3191	G	C8-N9-C1'	-6.18	118.97	127.00
85	5	3349	C	N3-C4-N4	-6.18	113.68	118.00
1	2	105	A	C5-C6-N6	6.17	128.64	123.70
1	2	951	U	C2-N3-C4	-6.17	123.30	127.00
1	2	1181	G	N1-C6-O6	6.17	123.61	119.90
1	2	1285	U	C2-N3-C4	-6.17	123.30	127.00
1	2	1621	G	N1-C2-N3	6.17	127.60	123.90
36	1	41	G	C4-C5-N7	6.17	113.27	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	270	U	C5-C4-O4	-6.17	122.19	125.90
36	1	655	C	N1-C2-N3	6.17	123.52	119.20
36	1	884	A	O5'-P-OP1	-6.17	100.14	105.70
36	1	1147	G	C6-N1-C2	-6.17	121.39	125.10
36	1	1203	A	C8-N9-C4	6.17	108.27	105.80
36	1	1598	G	OP1-P-O3'	6.17	118.78	105.20
36	1	1666	G	OP1-P-OP2	-6.17	110.34	119.60
36	1	2601	A	O5'-P-OP2	-6.17	100.14	105.70
36	1	3148	U	N3-C2-O2	6.17	126.52	122.20
37	3	85	G	N3-C2-N2	-6.17	115.58	119.90
38	4	22	U	C4-C5-C6	6.17	123.40	119.70
38	4	132	G	C5-C6-O6	6.17	132.30	128.60
80	6	348	U	N1-C2-N3	6.17	118.61	114.90
80	6	834	G	N1-C6-O6	6.17	123.61	119.90
80	6	877	G	C8-N9-C4	-6.17	103.93	106.40
80	6	1360	A	C2-N3-C4	6.17	113.69	110.60
85	5	731	U	N3-C4-C5	-6.17	110.89	114.60
85	5	758	C	C5-C4-N4	6.17	124.52	120.20
85	5	1498	A	OP1-P-OP2	6.17	128.86	119.60
85	5	1514	G	O4'-C1'-N9	6.17	113.14	108.20
85	5	1880	U	O5'-P-OP2	-6.17	100.14	105.70
85	5	1948	G	N7-C8-N9	6.17	116.19	113.10
85	5	1949	G	N1-C2-N2	6.17	121.76	116.20
85	5	2093	A	N1-C2-N3	-6.17	126.21	129.30
1	2	1173	C	N3-C2-O2	6.17	126.22	121.90
36	1	428	A	OP2-P-O3'	6.17	118.78	105.20
36	1	2816	G	C5-N7-C8	6.17	107.39	104.30
36	1	2901	G	N3-C2-N2	-6.17	115.58	119.90
38	4	37	A	N1-C6-N6	-6.17	114.90	118.60
80	6	1138	A	C5-C6-N6	6.17	128.64	123.70
36	1	422	A	N9-C4-C5	6.17	108.27	105.80
36	1	810	A	C4-C5-N7	6.17	113.79	110.70
36	1	1421	G	OP1-P-OP2	-6.17	110.34	119.60
36	1	2349	U	C6-N1-C2	6.17	124.70	121.00
36	1	2717	U	C5-C4-O4	-6.17	122.20	125.90
37	3	30	G	C5-C6-O6	-6.17	124.90	128.60
80	6	383	G	N3-C4-C5	6.17	131.69	128.60
80	6	923	A	N1-C2-N3	6.17	132.39	129.30
80	6	1473	U	C2-N1-C1'	6.17	125.11	117.70
80	6	1645	G	C8-N9-C1'	6.17	135.02	127.00
85	5	793	C	C4-C5-C6	-6.17	114.31	117.40
85	5	1915	A	C5-C6-N1	6.17	120.78	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3182	G	C4-C5-N7	-6.17	108.33	110.80
37	7	1	G	C4-C5-N7	6.17	113.27	110.80
37	7	89	G	C2-N3-C4	-6.17	108.81	111.90
1	2	688	U	N3-C4-O4	-6.17	115.08	119.40
1	2	1724	U	N3-C4-O4	6.17	123.72	119.40
36	1	1325	U	N1-C2-O2	-6.17	118.48	122.80
36	1	2939	G	C6-N1-C2	-6.17	121.40	125.10
85	5	609	G	N3-C4-N9	-6.17	122.30	126.00
85	5	1779	C	C2-N3-C4	-6.17	116.81	119.90
85	5	2814	G	OP1-P-OP2	-6.17	110.34	119.60
1	2	419	G	C8-N9-C4	6.17	108.87	106.40
1	2	1194	A	C2-N3-C4	-6.17	107.52	110.60
1	2	1398	U	N3-C4-C5	-6.17	110.90	114.60
36	1	104	G	C8-N9-C4	-6.17	103.93	106.40
36	1	208	C	P-O3'-C3'	-6.17	112.30	119.70
36	1	704	U	C4-C5-C6	6.17	123.40	119.70
36	1	1905	G	O5'-P-OP1	-6.17	100.15	105.70
36	1	3101	G	C6-N1-C2	-6.17	121.40	125.10
36	1	3331	U	N3-C2-O2	6.17	126.52	122.20
36	1	3369	G	O5'-P-OP1	-6.17	100.15	105.70
38	4	39	G	N1-C6-O6	-6.17	116.20	119.90
38	4	139	U	N1-C2-N3	6.17	118.60	114.90
80	6	306	U	C4-C5-C6	6.17	123.40	119.70
80	6	356	G	C8-N9-C4	-6.17	103.93	106.40
80	6	423	G	C4-N9-C1'	-6.17	118.48	126.50
80	6	484	C	C6-N1-C2	-6.17	117.83	120.30
80	6	604	A	O5'-P-OP1	-6.17	100.15	105.70
80	6	1155	G	N3-C4-N9	-6.17	122.30	126.00
80	6	1298	U	N1-C2-N3	6.17	118.60	114.90
80	6	1451	C	C5-C4-N4	-6.17	115.88	120.20
80	6	1758	U	C5-C6-N1	6.17	125.78	122.70
9	s7	128	ASP	CB-CG-OD1	6.17	123.85	118.30
85	5	244	G	N7-C8-N9	-6.17	110.02	113.10
85	5	628	A	C5-C6-N1	-6.17	114.62	117.70
85	5	737	G	C4-C5-N7	-6.17	108.33	110.80
85	5	1174	G	N1-C6-O6	-6.17	116.20	119.90
85	5	1291	A	N3-C4-C5	6.17	131.12	126.80
85	5	2151	C	N1-C2-O2	-6.17	115.20	118.90
85	5	2393	G	C8-N9-C4	-6.17	103.93	106.40
85	5	2595	A	OP1-P-OP2	-6.17	110.35	119.60
85	5	2780	A	C6-C5-N7	-6.17	127.98	132.30
37	7	117	A	N1-C6-N6	6.17	122.30	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1288	U	C6-N1-C2	-6.17	117.30	121.00
36	1	862	U	N1-C2-O2	-6.17	118.48	122.80
36	1	879	U	N1-C2-O2	6.17	127.12	122.80
36	1	1116	G	N1-C2-N3	6.17	127.60	123.90
36	1	1812	G	N1-C6-O6	-6.17	116.20	119.90
36	1	2174	G	OP1-P-O3'	6.17	118.77	105.20
37	3	69	C	C4-C5-C6	6.17	120.48	117.40
38	4	66	A	C5-C6-N6	6.17	128.63	123.70
80	6	95	G	C5-N7-C8	6.17	107.38	104.30
80	6	1512	G	C5-C6-N1	-6.17	108.42	111.50
85	5	1128	U	N3-C2-O2	6.17	126.52	122.20
85	5	1173	U	C2-N1-C1'	6.17	125.10	117.70
85	5	1489	A	C5-N7-C8	-6.17	100.82	103.90
43	16	31	ARG	NE-CZ-NH1	-6.17	117.22	120.30
1	2	429	G	C5-C6-N1	-6.17	108.42	111.50
36	1	8	C	C5-C4-N4	-6.17	115.89	120.20
36	1	2309	A	N9-C4-C5	6.17	108.27	105.80
36	1	2808	A	C2-N3-C4	-6.17	107.52	110.60
80	6	1323	C	C5-C6-N1	-6.17	117.92	121.00
85	5	1198	C	C2-N3-C4	-6.17	116.82	119.90
85	5	1271	A	C8-N9-C4	6.17	108.27	105.80
85	5	1443	G	C4-N9-C1'	6.17	134.51	126.50
85	5	1503	A	N3-C4-C5	6.17	131.12	126.80
85	5	2937	G	C6-C5-N7	-6.17	126.70	130.40
1	2	584	C	C5-C6-N1	-6.16	117.92	121.00
1	2	950	A	C5-N7-C8	-6.16	100.82	103.90
1	2	1262	C	N3-C2-O2	6.16	126.21	121.90
1	2	1307	G	N3-C2-N2	-6.16	115.58	119.90
1	2	1316	C	C6-N1-C2	-6.16	117.83	120.30
36	1	1049	C	C6-N1-C2	-6.16	117.83	120.30
36	1	1174	G	C5-C6-O6	-6.16	124.90	128.60
36	1	1517	G	N1-C2-N3	6.16	127.60	123.90
36	1	2143	A	C5-C6-N1	6.16	120.78	117.70
36	1	2408	U	C5-C4-O4	-6.16	122.20	125.90
36	1	2956	A	C8-N9-C4	-6.16	103.33	105.80
36	1	3292	A	C5-N7-C8	6.16	106.98	103.90
38	4	124	G	N7-C8-N9	6.16	116.18	113.10
80	6	1063	U	N1-C2-N3	-6.16	111.20	114.90
80	6	1100	G	C8-N9-C4	-6.16	103.94	106.40
80	6	1139	A	C2-N3-C4	6.16	113.68	110.60
85	5	22	G	N3-C2-N2	-6.16	115.58	119.90
85	5	47	C	C4-C5-C6	6.16	120.48	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	164	A	N9-C4-C5	-6.16	103.33	105.80
85	5	260	C	N1-C2-O2	6.16	122.60	118.90
85	5	492	U	OP2-P-O3'	6.16	118.76	105.20
85	5	559	A	C6-N1-C2	-6.16	114.90	118.60
85	5	962	A	C4-C5-C6	6.16	120.08	117.00
85	5	1096	U	O5'-P-OP2	-6.16	100.15	105.70
85	5	2506	U	C2-N3-C4	6.16	130.70	127.00
85	5	2623	G	C8-N9-C1'	-6.16	118.99	127.00
85	5	2754	G	O5'-P-OP1	6.16	118.10	110.70
37	7	37	G	C2-N3-C4	6.16	114.98	111.90
36	1	357	A	O5'-P-OP2	-6.16	100.15	105.70
36	1	779	G	C6-C5-N7	-6.16	126.70	130.40
36	1	1632	A	N1-C2-N3	6.16	132.38	129.30
80	6	575	C	C6-N1-C2	-6.16	117.83	120.30
85	5	563	U	C6-N1-C2	6.16	124.70	121.00
85	5	628	A	N7-C8-N9	-6.16	110.72	113.80
85	5	857	G	C5-C6-N1	-6.16	108.42	111.50
85	5	2916	U	N3-C4-O4	6.16	123.71	119.40
85	5	3146	G	N3-C4-C5	6.16	131.68	128.60
37	7	42	A	C5-C6-N1	-6.16	114.62	117.70
1	2	323	A	OP1-P-OP2	-6.16	110.36	119.60
36	1	231	G	N1-C6-O6	-6.16	116.20	119.90
36	1	321	C	OP2-P-O3'	6.16	118.75	105.20
36	1	756	U	O5'-P-OP1	6.16	118.09	110.70
36	1	1476	G	OP2-P-O3'	6.16	118.75	105.20
36	1	1599	G	OP1-P-OP2	6.16	128.84	119.60
36	1	2244	A	N1-C6-N6	-6.16	114.90	118.60
36	1	2561	A	N9-C4-C5	-6.16	103.34	105.80
36	1	2850	G	N1-C6-O6	6.16	123.60	119.90
80	6	1538	U	N3-C2-O2	6.16	126.51	122.20
85	5	329	U	C2-N3-C4	-6.16	123.30	127.00
85	5	368	G	C4-C5-N7	-6.16	108.34	110.80
85	5	888	A	N1-C6-N6	6.16	122.30	118.60
85	5	901	G	C4-C5-C6	6.16	122.50	118.80
85	5	923	C	N1-C2-N3	6.16	123.51	119.20
85	5	934	G	N3-C4-C5	-6.16	125.52	128.60
85	5	2324	A	N9-C4-C5	-6.16	103.34	105.80
85	5	2376	G	N1-C2-N3	6.16	127.60	123.90
85	5	2644	C	O4'-C1'-N1	-6.16	103.27	108.20
85	5	2976	A	N3-C4-C5	-6.16	122.49	126.80
85	5	3053	G	C5-C6-N1	-6.16	108.42	111.50
85	5	3373	U	N3-C4-C5	6.16	118.30	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	7	109	G	C4-C5-N7	6.16	113.26	110.80
43	16	63	LEU	CB-CG-CD1	-6.16	100.53	111.00
1	2	1093	G	C4-C5-N7	-6.16	108.34	110.80
1	2	1715	A	N7-C8-N9	6.16	116.88	113.80
1	2	1756	C	N3-C2-O2	6.16	126.21	121.90
1	2	1765	A	C6-N1-C2	6.16	122.30	118.60
36	1	992	A	C5-C6-N6	6.16	128.63	123.70
36	1	1748	G	C4-C5-C6	6.16	122.50	118.80
36	1	2180	G	N3-C4-C5	6.16	131.68	128.60
36	1	2419	A	N9-C4-C5	6.16	108.26	105.80
36	1	2918	G	N3-C4-C5	-6.16	125.52	128.60
36	1	2995	A	C8-N9-C4	6.16	108.26	105.80
36	1	3217	C	N1-C2-O2	6.16	122.59	118.90
80	6	294	C	C5-C6-N1	-6.16	117.92	121.00
80	6	570	A	C6-C5-N7	-6.16	127.99	132.30
80	6	1051	G	O4'-C1'-N9	6.16	113.13	108.20
80	6	1399	C	C5-C6-N1	6.16	124.08	121.00
85	5	346	C	O5'-P-OP2	-6.16	100.16	105.70
85	5	895	A	C8-N9-C4	-6.16	103.34	105.80
85	5	952	A	N1-C6-N6	-6.16	114.90	118.60
85	5	1108	U	C5-C6-N1	-6.16	119.62	122.70
85	5	1417	G	C5-C6-O6	-6.16	124.91	128.60
85	5	2238	G	N1-C2-N2	-6.16	110.66	116.20
85	5	2888	U	C4-C5-C6	6.16	123.39	119.70
37	7	107	C	OP1-P-OP2	-6.16	110.36	119.60
1	2	997	G	C6-C5-N7	-6.16	126.71	130.40
36	1	105	C	O5'-P-OP2	-6.16	100.16	105.70
36	1	199	A	C4-C5-C6	6.16	120.08	117.00
36	1	273	A	N1-C2-N3	6.16	132.38	129.30
36	1	334	A	C4-C5-N7	6.16	113.78	110.70
36	1	1170	A	OP1-P-OP2	6.16	128.84	119.60
36	1	1204	A	OP2-P-O3'	6.16	118.75	105.20
36	1	1826	C	N3-C4-C5	-6.16	119.44	121.90
36	1	3103	A	C8-N9-C4	6.16	108.26	105.80
37	3	109	G	C8-N9-C4	-6.16	103.94	106.40
38	4	111	A	N1-C6-N6	6.16	122.29	118.60
80	6	20	G	OP1-P-O3'	6.16	118.75	105.20
80	6	673	A	N1-C6-N6	-6.16	114.91	118.60
85	5	665	A	N1-C6-N6	6.16	122.29	118.60
85	5	3049	A	N1-C6-N6	-6.16	114.91	118.60
85	5	3106	A	OP1-P-O3'	6.16	118.74	105.20
85	5	3225	C	C6-N1-C2	-6.16	117.84	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	15	48	LYS	CD-CE-NZ	6.16	125.86	111.70
36	1	83	U	N3-C2-O2	-6.16	117.89	122.20
36	1	218	G	N1-C6-O6	6.16	123.59	119.90
36	1	429	U	N3-C4-O4	6.16	123.71	119.40
36	1	1345	G	C5-C6-N1	-6.16	108.42	111.50
36	1	1381	A	OP1-P-OP2	-6.16	110.36	119.60
36	1	1472	U	C4-C5-C6	6.16	123.39	119.70
36	1	1507	G	O4'-C1'-N9	-6.16	103.28	108.20
36	1	1811	G	C5-N7-C8	6.16	107.38	104.30
36	1	2391	G	N1-C2-N3	6.16	127.59	123.90
36	1	2677	G	C8-N9-C4	-6.16	103.94	106.40
36	1	2923	U	C2-N3-C4	-6.16	123.31	127.00
36	1	3095	U	N3-C4-C5	-6.16	110.91	114.60
36	1	3369	G	N1-C2-N3	6.16	127.59	123.90
36	1	3372	A	C5-N7-C8	6.16	106.98	103.90
50	M4	47	ASP	CB-CG-OD2	-6.16	112.76	118.30
80	6	323	A	C6-C5-N7	-6.16	127.99	132.30
80	6	677	G	N1-C6-O6	6.16	123.59	119.90
80	6	1472	C	C2-N3-C4	-6.16	116.82	119.90
80	6	1662	G	N1-C6-O6	6.16	123.59	119.90
85	5	227	G	N1-C2-N2	-6.16	110.66	116.20
85	5	510	G	N3-C2-N2	-6.16	115.59	119.90
85	5	826	G	C4-C5-C6	6.16	122.49	118.80
85	5	2677	G	OP1-P-OP2	-6.16	110.37	119.60
85	5	2719	U	C6-N1-C2	6.16	124.69	121.00
85	5	2858	U	N1-C2-N3	6.16	118.59	114.90
85	5	2871	G	C8-N9-C1'	6.16	135.00	127.00
85	5	2957	G	C6-C5-N7	-6.16	126.71	130.40
85	5	2976	A	C5-N7-C8	6.16	106.98	103.90
85	5	3103	A	C6-N1-C2	-6.16	114.91	118.60
37	7	82	G	C5-C6-N1	6.16	114.58	111.50
1	2	49	C	C4-C5-C6	6.15	120.48	117.40
1	2	694	U	C6-N1-C2	6.15	124.69	121.00
1	2	1768	U	C2-N3-C4	-6.15	123.31	127.00
36	1	331	G	N3-C2-N2	-6.15	115.59	119.90
36	1	976	U	N3-C2-O2	6.15	126.51	122.20
36	1	1155	C	N3-C2-O2	6.15	126.21	121.90
36	1	1302	A	C2-N3-C4	-6.15	107.52	110.60
36	1	3161	C	OP1-P-OP2	-6.15	110.37	119.60
37	3	101	G	C6-C5-N7	-6.15	126.71	130.40
80	6	417	A	N1-C6-N6	6.15	122.29	118.60
80	6	757	A	N1-C2-N3	6.15	132.38	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	792	U	C6-N1-C2	-6.15	117.31	121.00
85	5	1156	C	C2-N3-C4	-6.15	116.82	119.90
85	5	2278	C	C6-N1-C2	6.15	122.76	120.30
85	5	2694	A	C5-N7-C8	-6.15	100.82	103.90
1	2	77	U	C6-N1-C2	6.15	124.69	121.00
1	2	1185	A	N3-C4-C5	-6.15	122.49	126.80
1	2	1593	G	N3-C4-N9	6.15	129.69	126.00
1	2	1637	G	N3-C4-N9	6.15	129.69	126.00
36	1	648	C	O4'-C1'-N1	-6.15	103.28	108.20
36	1	780	A	N3-C4-N9	-6.15	122.48	127.40
36	1	847	A	OP1-P-OP2	-6.15	110.37	119.60
36	1	2335	G	N9-C4-C5	6.15	107.86	105.40
36	1	2372	A	N3-C4-N9	6.15	132.32	127.40
36	1	3102	G	C2-N3-C4	-6.15	108.82	111.90
38	4	61	A	OP2-P-O3'	6.15	118.74	105.20
38	4	151	C	N3-C4-N4	6.15	122.31	118.00
47	M0	142	ASP	CB-CG-OD2	6.15	123.84	118.30
80	6	453	U	N1-C2-O2	-6.15	118.49	122.80
80	6	1107	G	C8-N9-C4	-6.15	103.94	106.40
85	5	513	G	C4-N9-C1'	6.15	134.50	126.50
85	5	1191	U	N1-C2-N3	-6.15	111.21	114.90
85	5	1424	C	N3-C2-O2	6.15	126.21	121.90
85	5	1590	G	O5'-P-OP1	-6.15	100.16	105.70
85	5	1904	C	C6-N1-C1'	-6.15	113.42	120.80
85	5	2342	U	C5-C4-O4	-6.15	122.21	125.90
85	5	2682	C	N1-C2-O2	6.15	122.59	118.90
85	5	2978	U	N1-C1'-C2'	6.15	122.00	114.00
38	8	143	U	N3-C4-C5	-6.15	110.91	114.60
1	2	149	C	N3-C4-C5	6.15	124.36	121.90
1	2	1071	A	C5-C6-N6	-6.15	118.78	123.70
1	2	1284	U	OP2-P-O3'	-6.15	91.67	105.20
36	1	355	A	O5'-P-OP2	6.15	118.08	110.70
36	1	954	U	N3-C4-O4	6.15	123.71	119.40
36	1	1165	A	O5'-P-OP1	6.15	118.08	110.70
36	1	1318	A	C2-N3-C4	-6.15	107.53	110.60
36	1	2280	A	C5-C6-N6	6.15	128.62	123.70
80	6	1669	U	C5-C6-N1	6.15	125.78	122.70
85	5	586	C	N3-C4-N4	-6.15	113.69	118.00
85	5	611	A	N1-C2-N3	-6.15	126.22	129.30
85	5	1068	C	C2-N1-C1'	-6.15	112.03	118.80
85	5	1412	G	C2-N3-C4	-6.15	108.83	111.90
85	5	1516	C	OP2-P-O3'	6.15	118.73	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2114	C	C2-N3-C4	6.15	122.97	119.90
85	5	2696	A	N1-C6-N6	-6.15	114.91	118.60
85	5	2705	A	C8-N9-C4	-6.15	103.34	105.80
85	5	3002	C	C6-N1-C2	6.15	122.76	120.30
85	5	3180	A	OP1-P-OP2	6.15	128.83	119.60
85	5	3188	G	C6-N1-C2	-6.15	121.41	125.10
36	1	71	A	C5-C6-N1	6.15	120.78	117.70
36	1	1366	A	OP2-P-O3'	6.15	118.73	105.20
36	1	1839	A	C2-N3-C4	-6.15	107.53	110.60
36	1	2375	G	OP2-P-O3'	6.15	118.73	105.20
36	1	2732	G	N9-C4-C5	-6.15	102.94	105.40
85	5	277	G	OP1-P-OP2	-6.15	110.38	119.60
85	5	512	U	C2-N3-C4	-6.15	123.31	127.00
85	5	575	G	C4-C5-N7	-6.15	108.34	110.80
85	5	2418	G	C5-N7-C8	-6.15	101.22	104.30
85	5	3134	A	C5-N7-C8	-6.15	100.83	103.90
1	2	1724	U	N1-C2-N3	6.15	118.59	114.90
36	1	20	A	OP2-P-O3'	6.15	118.72	105.20
36	1	361	A	C8-N9-C4	6.15	108.26	105.80
36	1	921	A	N7-C8-N9	-6.15	110.73	113.80
36	1	1075	A	C5-C6-N6	-6.15	118.78	123.70
36	1	1857	C	OP1-P-O3'	6.15	118.72	105.20
36	1	2840	C	N1-C2-N3	6.15	123.50	119.20
36	1	3170	A	C6-C5-N7	-6.15	128.00	132.30
72	O6	56	ARG	NE-CZ-NH2	-6.15	117.23	120.30
80	6	615	A	N1-C6-N6	-6.15	114.91	118.60
80	6	1555	A	N1-C2-N3	-6.15	126.23	129.30
85	5	536	U	O5'-P-OP2	-6.15	100.17	105.70
85	5	737	G	C6-N1-C2	-6.15	121.41	125.10
85	5	1721	U	N1-C2-O2	-6.15	118.50	122.80
85	5	2757	U	N3-C4-O4	6.15	123.70	119.40
85	5	2829	U	C5-C6-N1	6.15	125.77	122.70
75	o9	42	ARG	NE-CZ-NH1	-6.15	117.23	120.30
36	1	61	A	O5'-P-OP1	-6.15	100.17	105.70
36	1	1850	A	N3-C4-C5	6.15	131.10	126.80
36	1	2285	C	C6-N1-C2	-6.15	117.84	120.30
36	1	2614	G	N1-C6-O6	-6.15	116.21	119.90
36	1	2747	A	OP1-P-OP2	-6.15	110.38	119.60
36	1	2837	A	O5'-P-OP1	6.15	118.08	110.70
36	1	3346	U	N3-C4-O4	-6.15	115.10	119.40
37	3	56	A	N9-C4-C5	-6.15	103.34	105.80
80	6	136	C	N1-C2-N3	-6.15	114.90	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1429	G	O5'-P-OP2	6.15	118.08	110.70
85	5	1513	G	N7-C8-N9	6.15	116.17	113.10
85	5	2299	A	N9-C1'-C2'	-6.15	105.24	112.00
85	5	3022	G	N7-C8-N9	6.15	116.17	113.10
68	o2	89	THR	CA-CB-CG2	-6.15	103.80	112.40
1	2	19	A	C8-N9-C4	-6.14	103.34	105.80
1	2	114	C	C5-C6-N1	-6.14	117.93	121.00
1	2	557	G	C5-C6-N1	-6.14	108.43	111.50
1	2	1630	U	N1-C2-N3	6.14	118.59	114.90
36	1	899	U	N3-C4-O4	-6.14	115.10	119.40
36	1	1071	U	C5-C6-N1	6.14	125.77	122.70
36	1	1493	G	C6-N1-C2	-6.14	121.41	125.10
36	1	1745	C	N3-C4-C5	-6.14	119.44	121.90
36	1	1760	A	N1-C2-N3	-6.14	126.23	129.30
36	1	1823	A	N1-C2-N3	6.14	132.37	129.30
36	1	2661	G	C4-C5-C6	6.14	122.49	118.80
36	1	2929	C	C4-C5-C6	6.14	120.47	117.40
80	6	171	A	N1-C2-N3	6.14	132.37	129.30
80	6	423	G	N9-C1'-C2'	6.14	121.99	114.00
80	6	467	G	C5-C6-O6	6.14	132.29	128.60
80	6	581	U	N1-C2-N3	-6.14	111.21	114.90
80	6	801	G	N9-C4-C5	6.14	107.86	105.40
85	5	122	A	O5'-P-OP2	-6.14	100.17	105.70
85	5	200	C	O5'-P-OP2	6.14	118.08	110.70
85	5	358	G	C4-C5-C6	6.14	122.49	118.80
85	5	570	A	N3-C4-C5	-6.14	122.50	126.80
85	5	613	G	N3-C4-C5	6.14	131.67	128.60
85	5	893	C	C6-N1-C2	-6.14	117.84	120.30
85	5	1121	U	N3-C4-C5	6.14	118.29	114.60
85	5	1312	C	C5-C4-N4	6.14	124.50	120.20
85	5	1894	U	C2-N3-C4	-6.14	123.31	127.00
85	5	2187	G	N3-C2-N2	6.14	124.20	119.90
85	5	2190	U	O5'-P-OP2	-6.14	100.17	105.70
85	5	2206	G	C5-C6-O6	-6.14	124.91	128.60
85	5	3153	U	N3-C2-O2	-6.14	117.90	122.20
1	2	273	G	N7-C8-N9	6.14	116.17	113.10
1	2	356	G	O5'-P-OP1	6.14	118.07	110.70
1	2	370	A	C4-C5-N7	-6.14	107.63	110.70
36	1	525	C	C6-N1-C2	6.14	122.76	120.30
36	1	1094	U	N3-C4-O4	6.14	123.70	119.40
36	1	1749	A	C5-N7-C8	-6.14	100.83	103.90
36	1	1879	A	C4-C5-N7	-6.14	107.63	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2427	U	C4-C5-C6	-6.14	116.01	119.70
36	1	2956	A	C5-C6-N6	-6.14	118.79	123.70
38	4	63	G	C8-N9-C1'	6.14	134.99	127.00
38	4	82	U	C2-N3-C4	6.14	130.69	127.00
41	L4	185	LYS	CD-CE-NZ	6.14	125.83	111.70
80	6	358	U	O5'-P-OP2	-6.14	100.17	105.70
80	6	1084	A	C5-C6-N1	6.14	120.77	117.70
85	5	589	A	C4-C5-N7	6.14	113.77	110.70
85	5	858	A	C5-C6-N6	-6.14	118.78	123.70
85	5	1938	U	OP1-P-OP2	-6.14	110.39	119.60
85	5	2093	A	N1-C6-N6	6.14	122.28	118.60
85	5	2733	A	C5-C6-N6	6.14	128.61	123.70
85	5	2901	G	C6-N1-C2	-6.14	121.41	125.10
85	5	3148	U	OP1-P-O3'	-6.14	91.69	105.20
85	5	3240	C	C6-N1-C2	6.14	122.76	120.30
85	5	3338	C	OP1-P-OP2	-6.14	110.39	119.60
85	5	3361	G	C4-C5-N7	-6.14	108.34	110.80
36	1	589	A	N7-C8-N9	-6.14	110.73	113.80
36	1	1519	G	C2-N3-C4	-6.14	108.83	111.90
36	1	2102	U	O5'-P-OP2	-6.14	100.17	105.70
36	1	2291	A	C2-N3-C4	6.14	113.67	110.60
36	1	2797	C	OP1-P-OP2	-6.14	110.39	119.60
36	1	2978	U	N1-C2-N3	6.14	118.58	114.90
80	6	277	U	N3-C4-C5	6.14	118.28	114.60
80	6	947	U	C6-N1-C2	-6.14	117.31	121.00
80	6	1773	C	N3-C4-N4	6.14	122.30	118.00
85	5	789	A	C5-C6-N1	-6.14	114.63	117.70
85	5	997	A	OP2-P-O3'	6.14	118.71	105.20
85	5	1441	G	C2-N3-C4	-6.14	108.83	111.90
1	2	830	A	N1-C6-N6	6.14	122.28	118.60
1	2	1058	C	OP1-P-OP2	-6.14	110.39	119.60
36	1	205	C	C4-C5-C6	6.14	120.47	117.40
36	1	383	G	C5-N7-C8	6.14	107.37	104.30
36	1	515	C	OP1-P-OP2	6.14	128.81	119.60
36	1	517	G	C5-C6-N1	-6.14	108.43	111.50
36	1	632	G	N7-C8-N9	6.14	116.17	113.10
36	1	769	G	O5'-P-OP2	-6.14	100.17	105.70
36	1	1127	G	N1-C2-N3	-6.14	120.22	123.90
36	1	1803	C	N1-C2-N3	-6.14	114.90	119.20
36	1	2239	G	N3-C2-N2	-6.14	115.60	119.90
36	1	2782	U	N3-C4-C5	-6.14	110.92	114.60
36	1	3330	A	N9-C4-C5	6.14	108.26	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1110	G	C5-C6-N1	-6.14	108.43	111.50
80	6	1373	C	N1-C2-O2	6.14	122.58	118.90
85	5	418	A	N7-C8-N9	6.14	116.87	113.80
85	5	693	A	C6-C5-N7	-6.14	128.00	132.30
85	5	1446	A	C5-C6-N1	6.14	120.77	117.70
85	5	1518	U	O5'-P-OP1	-6.14	100.17	105.70
85	5	1737	U	N1-C2-O2	-6.14	118.50	122.80
85	5	3087	A	C5-C6-N6	-6.14	118.79	123.70
85	5	3243	A	N9-C4-C5	-6.14	103.34	105.80
52	m6	145	VAL	CA-CB-CG2	-6.14	101.69	110.90
1	2	426	G	N1-C2-N2	-6.14	110.68	116.20
1	2	972	U	OP1-P-OP2	6.14	128.81	119.60
36	1	1192	C	C5-C4-N4	6.14	124.50	120.20
36	1	1388	U	O5'-P-OP1	-6.14	100.18	105.70
36	1	1920	U	C2-N3-C4	-6.14	123.32	127.00
36	1	2303	A	C5-C6-N1	6.14	120.77	117.70
36	1	2920	U	C2-N3-C4	-6.14	123.32	127.00
36	1	3011	A	C6-N1-C2	-6.14	114.92	118.60
36	1	3028	G	OP1-P-OP2	-6.14	110.39	119.60
36	1	3320	A	N1-C2-N3	6.14	132.37	129.30
80	6	978	A	C8-N9-C4	-6.14	103.34	105.80
85	5	707	U	N1-C2-O2	-6.14	118.50	122.80
85	5	1379	G	O5'-P-OP1	6.14	118.07	110.70
85	5	1872	C	C2-N3-C4	-6.14	116.83	119.90
85	5	1935	G	C6-N1-C2	6.14	128.78	125.10
38	8	112	U	C2-N1-C1'	-6.14	110.33	117.70
1	2	678	U	C5-C4-O4	6.14	129.58	125.90
36	1	77	A	N7-C8-N9	6.14	116.87	113.80
36	1	608	A	C2-N3-C4	6.14	113.67	110.60
36	1	690	A	C4-C5-N7	-6.14	107.63	110.70
36	1	1157	G	N7-C8-N9	6.14	116.17	113.10
36	1	1803	C	C4-C5-C6	-6.14	114.33	117.40
36	1	2884	C	C2-N3-C4	6.14	122.97	119.90
36	1	3015	G	C4-C5-N7	6.14	113.25	110.80
45	L8	200	LEU	CB-CG-CD2	-6.14	100.57	111.00
80	6	33	U	C2-N3-C4	6.14	130.68	127.00
80	6	142	G	N3-C4-N9	6.14	129.68	126.00
80	6	309	C	N3-C4-N4	6.14	122.30	118.00
80	6	349	U	C4-C5-C6	6.14	123.38	119.70
80	6	463	U	C2-N3-C4	6.14	130.68	127.00
80	6	712	G	C2-N3-C4	6.14	114.97	111.90
80	6	1038	U	N3-C4-O4	6.14	123.70	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1402	G	N1-C2-N2	-6.14	110.68	116.20
85	5	346	C	C4-C5-C6	6.14	120.47	117.40
85	5	904	A	C5-C6-N1	6.14	120.77	117.70
85	5	976	U	C2-N3-C4	-6.14	123.32	127.00
85	5	1003	A	N7-C8-N9	6.14	116.87	113.80
85	5	1393	A	C6-N1-C2	-6.14	114.92	118.60
85	5	1560	G	N3-C2-N2	-6.14	115.60	119.90
85	5	1944	U	C2-N3-C4	-6.14	123.32	127.00
85	5	2312	A	N1-C2-N3	6.14	132.37	129.30
85	5	2505	U	N1-C2-O2	6.14	127.09	122.80
1	2	978	A	OP1-P-OP2	6.13	128.80	119.60
1	2	1174	U	N1-C2-N3	6.13	118.58	114.90
36	1	10	C	O5'-P-OP1	6.13	118.06	110.70
36	1	96	G	N9-C4-C5	-6.13	102.95	105.40
36	1	1929	G	N9-C4-C5	6.13	107.85	105.40
36	1	3183	A	C5-C6-N6	6.13	128.61	123.70
36	1	3227	A	C2-N3-C4	-6.13	107.53	110.60
36	1	3249	C	N1-C2-N3	-6.13	114.91	119.20
80	6	256	A	C5-N7-C8	-6.13	100.83	103.90
80	6	334	G	N9-C4-C5	6.13	107.85	105.40
80	6	1187	U	N1-C2-O2	-6.13	118.50	122.80
80	6	1192	C	C5-C4-N4	6.13	124.49	120.20
80	6	1275	A	C5-C6-N1	-6.13	114.63	117.70
80	6	1606	C	O5'-P-OP2	-6.13	100.18	105.70
85	5	154	U	C5-C6-N1	6.13	125.77	122.70
85	5	286	U	N3-C4-C5	-6.13	110.92	114.60
85	5	388	G	N1-C2-N2	6.13	121.72	116.20
85	5	1297	C	C5-C4-N4	-6.13	115.91	120.20
85	5	2283	G	N7-C8-N9	6.13	116.17	113.10
85	5	2810	C	O4'-C1'-N1	6.13	113.11	108.20
85	5	3292	A	N9-C4-C5	-6.13	103.35	105.80
37	7	110	G	C2-N3-C4	-6.13	108.83	111.90
1	2	187	G	C5-N7-C8	6.13	107.37	104.30
1	2	757	A	C4-C5-N7	6.13	113.77	110.70
36	1	938	C	C4-C5-C6	-6.13	114.33	117.40
36	1	1113	G	C6-N1-C2	-6.13	121.42	125.10
36	1	2699	G	N3-C4-C5	6.13	131.67	128.60
36	1	3144	G	OP1-P-OP2	6.13	128.80	119.60
37	3	72	A	N3-C4-C5	6.13	131.09	126.80
38	4	98	U	N1-C2-O2	-6.13	118.51	122.80
80	6	457	G	C5-C6-N1	-6.13	108.43	111.50
85	5	12	A	C5-C6-N6	-6.13	118.79	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	931	C	O4'-C1'-N1	-6.13	103.29	108.20
85	5	2872	A	N7-C8-N9	6.13	116.87	113.80
1	2	1022	A	O4'-C1'-N9	6.13	113.11	108.20
36	1	39	A	OP1-P-OP2	-6.13	110.40	119.60
36	1	775	A	C4-C5-N7	6.13	113.77	110.70
36	1	1051	U	O5'-P-OP1	-6.13	100.18	105.70
36	1	1410	U	N3-C4-O4	-6.13	115.11	119.40
36	1	1681	U	N1-C2-N3	6.13	118.58	114.90
36	1	2179	C	C4-C5-C6	6.13	120.47	117.40
36	1	3262	U	C5-C6-N1	-6.13	119.63	122.70
80	6	793	A	C8-N9-C4	6.13	108.25	105.80
85	5	325	A	C6-N1-C2	-6.13	114.92	118.60
85	5	351	A	C2-N3-C4	-6.13	107.53	110.60
85	5	379	C	OP1-P-OP2	-6.13	110.40	119.60
85	5	841	A	C5-C6-N6	-6.13	118.80	123.70
85	5	914	A	N1-C2-N3	6.13	132.37	129.30
85	5	2266	U	OP1-P-OP2	-6.13	110.40	119.60
85	5	2780	A	C5-N7-C8	-6.13	100.83	103.90
38	8	52	A	N3-C4-C5	-6.13	122.51	126.80
1	2	234	G	C8-N9-C4	-6.13	103.95	106.40
1	2	989	C	N1-C2-N3	6.13	123.49	119.20
1	2	1065	C	C2-N1-C1'	6.13	125.54	118.80
36	1	96	G	C8-N9-C1'	6.13	134.97	127.00
36	1	420	G	C6-C5-N7	-6.13	126.72	130.40
36	1	1057	A	C5-C6-N1	-6.13	114.64	117.70
36	1	1104	G	C2-N3-C4	-6.13	108.83	111.90
36	1	2352	A	OP1-P-O3'	6.13	118.69	105.20
80	6	583	C	C5-C6-N1	6.13	124.06	121.00
80	6	1146	G	C2-N3-C4	-6.13	108.83	111.90
85	5	1118	C	O5'-P-OP2	-6.13	100.18	105.70
85	5	1209	G	O5'-P-OP1	-6.13	100.18	105.70
85	5	1643	A	C8-N9-C4	-6.13	103.35	105.80
85	5	2220	A	C4-C5-N7	6.13	113.77	110.70
85	5	3212	C	C2-N3-C4	-6.13	116.83	119.90
62	n6	6	LEU	CA-C-O	-6.13	107.23	120.10
1	2	167	U	C5-C4-O4	-6.13	122.22	125.90
1	2	377	G	N1-C2-N2	6.13	121.72	116.20
1	2	1665	U	N3-C4-C5	6.13	118.28	114.60
36	1	92	G	N3-C4-N9	6.13	129.68	126.00
36	1	1482	A	C2-N3-C4	6.13	113.66	110.60
36	1	2364	G	C5-C6-N1	-6.13	108.44	111.50
36	1	2382	G	C5-C6-O6	-6.13	124.92	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2941	A	N1-C2-N3	-6.13	126.24	129.30
36	1	3209	A	N1-C6-N6	6.13	122.28	118.60
80	6	332	U	N1-C2-N3	6.13	118.58	114.90
80	6	370	A	N1-C6-N6	-6.13	114.92	118.60
85	5	302	U	N3-C4-O4	-6.13	115.11	119.40
85	5	411	U	N1-C2-O2	-6.13	118.51	122.80
85	5	429	U	C2-N3-C4	6.13	130.68	127.00
85	5	795	G	N1-C2-N3	6.13	127.58	123.90
85	5	1097	G	C5-C6-N1	-6.13	108.44	111.50
85	5	1346	G	N9-C4-C5	6.13	107.85	105.40
85	5	2924	U	C4-C5-C6	6.13	123.38	119.70
85	5	3128	G	N3-C4-N9	-6.13	122.32	126.00
85	5	3238	G	C5-N7-C8	-6.13	101.24	104.30
47	m0	145	LYS	CD-CE-NZ	6.13	125.80	111.70
1	2	598	U	C2-N3-C4	-6.13	123.33	127.00
1	2	887	G	N1-C6-O6	-6.13	116.22	119.90
1	2	1014	U	N3-C4-C5	6.13	118.28	114.60
1	2	1108	A	N7-C8-N9	6.13	116.86	113.80
1	2	1231	C	C6-N1-C2	6.13	122.75	120.30
36	1	793	C	N3-C4-N4	6.13	122.29	118.00
36	1	894	G	N3-C4-C5	-6.13	125.54	128.60
36	1	896	A	C5-C6-N1	6.13	120.76	117.70
36	1	2128	C	O5'-P-OP1	6.13	118.05	110.70
36	1	2623	G	C8-N9-C4	-6.13	103.95	106.40
36	1	2771	U	O4'-C1'-N1	6.13	113.10	108.20
36	1	3174	A	N9-C4-C5	6.13	108.25	105.80
38	4	53	A	C5-C6-N6	6.13	128.60	123.70
85	5	1381	A	N1-C2-N3	6.13	132.36	129.30
85	5	1437	C	C4-C5-C6	6.13	120.46	117.40
85	5	2255	A	N1-C6-N6	-6.13	114.92	118.60
85	5	2373	A	C5'-C4'-C3'	-6.13	106.20	116.00
85	5	2421	U	OP1-P-OP2	6.13	128.79	119.60
85	5	3252	G	C8-N9-C4	6.13	108.85	106.40
1	2	703	G	OP1-P-O3'	6.12	118.68	105.20
36	1	138	U	C2-N3-C4	-6.12	123.33	127.00
36	1	665	A	C4-C5-N7	6.12	113.76	110.70
36	1	1512	U	C6-N1-C2	-6.12	117.33	121.00
36	1	1586	G	C5-C6-N1	-6.12	108.44	111.50
36	1	2748	A	C8-N9-C4	6.12	108.25	105.80
38	4	21	C	C6-N1-C2	6.12	122.75	120.30
38	4	28	C	O5'-P-OP1	6.12	118.05	110.70
85	5	82	C	C5-C4-N4	6.12	124.49	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	622	A	N9-C4-C5	-6.12	103.35	105.80
85	5	954	U	OP2-P-O3'	6.12	118.67	105.20
85	5	2791	G	C2-N3-C4	-6.12	108.84	111.90
85	5	2861	U	N3-C4-O4	6.12	123.69	119.40
1	2	961	A	C4-C5-C6	6.12	120.06	117.00
36	1	195	U	C2-N3-C4	-6.12	123.33	127.00
36	1	820	A	O5'-P-OP1	6.12	118.05	110.70
36	1	1052	U	N3-C4-O4	-6.12	115.11	119.40
36	1	1700	G	C5-C6-N1	-6.12	108.44	111.50
36	1	2793	G	N3-C4-C5	6.12	131.66	128.60
36	1	3322	A	C4-C5-N7	6.12	113.76	110.70
80	6	51	A	O5'-P-OP2	6.12	118.05	110.70
80	6	78	A	C6-N1-C2	-6.12	114.93	118.60
80	6	591	A	C4-C5-C6	-6.12	113.94	117.00
80	6	599	A	OP1-P-O3'	6.12	118.67	105.20
80	6	748	U	C6-N1-C2	-6.12	117.33	121.00
80	6	925	G	C5-C6-O6	-6.12	124.93	128.60
80	6	1114	G	C4-C5-C6	6.12	122.47	118.80
80	6	1368	G	C5-C6-O6	6.12	132.27	128.60
85	5	571	U	N3-C4-O4	6.12	123.69	119.40
85	5	716	A	N1-C2-N3	6.12	132.36	129.30
85	5	727	G	C4-C5-N7	6.12	113.25	110.80
85	5	1608	C	C5-C4-N4	-6.12	115.91	120.20
85	5	2241	U	N3-C2-O2	6.12	126.49	122.20
85	5	2773	C	C5-C6-N1	6.12	124.06	121.00
85	5	3066	U	N3-C4-O4	-6.12	115.11	119.40
85	5	3386	G	O5'-P-OP1	-6.12	100.19	105.70
37	7	27	A	C6-C5-N7	-6.12	128.01	132.30
1	2	234	G	N9-C4-C5	6.12	107.85	105.40
1	2	461	G	C5-C6-N1	-6.12	108.44	111.50
36	1	107	A	C2-N3-C4	6.12	113.66	110.60
36	1	658	G	C6-C5-N7	-6.12	126.73	130.40
36	1	1222	G	N1-C6-O6	-6.12	116.23	119.90
36	1	1377	G	O5'-P-OP1	-6.12	100.19	105.70
36	1	1435	A	N3-C4-C5	-6.12	122.52	126.80
36	1	2626	A	C5-C6-N6	6.12	128.60	123.70
36	1	2683	U	C4-C5-C6	6.12	123.37	119.70
36	1	3289	G	N1-C2-N3	-6.12	120.23	123.90
74	O8	17	ARG	NE-CZ-NH2	-6.12	117.24	120.30
80	6	105	A	C6-C5-N7	-6.12	128.01	132.30
85	5	1768	U	N3-C4-C5	6.12	118.27	114.60
85	5	2936	A	C4-C5-C6	-6.12	113.94	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	7	50	U	C4-C5-C6	-6.12	116.03	119.70
48	m1	80	LEU	CA-CB-CG	6.12	129.38	115.30
36	1	2242	A	C8-N9-C4	-6.12	103.35	105.80
80	6	478	A	C4-C5-C6	6.12	120.06	117.00
80	6	1328	G	C5-C6-O6	6.12	132.27	128.60
85	5	344	A	N3-C4-N9	-6.12	122.50	127.40
85	5	602	A	O5'-P-OP2	-6.12	100.19	105.70
85	5	1418	A	C5-N7-C8	-6.12	100.84	103.90
85	5	2219	A	N9-C4-C5	6.12	108.25	105.80
85	5	3188	G	C5-C6-N1	6.12	114.56	111.50
1	2	727	U	N3-C4-O4	-6.12	115.12	119.40
1	2	1385	G	C2-N3-C4	-6.12	108.84	111.90
36	1	1666	G	C2-N3-C4	-6.12	108.84	111.90
36	1	1677	G	C2-N3-C4	-6.12	108.84	111.90
36	1	1850	A	N3-C4-N9	-6.12	122.50	127.40
36	1	2597	U	C2-N1-C1'	6.12	125.04	117.70
36	1	3059	G	N1-C2-N3	6.12	127.57	123.90
36	1	3307	A	OP1-P-O3'	6.12	118.66	105.20
38	4	45	C	C2-N3-C4	6.12	122.96	119.90
80	6	46	A	C6-C5-N7	-6.12	128.02	132.30
80	6	345	U	N1-C2-O2	-6.12	118.52	122.80
80	6	1137	A	OP1-P-OP2	-6.12	110.42	119.60
85	5	147	U	C5-C6-N1	6.12	125.76	122.70
85	5	402	A	C4-C5-C6	6.12	120.06	117.00
85	5	858	A	N1-C2-N3	6.12	132.36	129.30
85	5	896	A	C5-C6-N6	-6.12	118.81	123.70
85	5	1851	G	C5-C6-O6	-6.12	124.93	128.60
85	5	2948	C	N3-C2-O2	6.12	126.18	121.90
37	7	27	A	C4-C5-C6	6.12	120.06	117.00
1	2	94	U	N3-C2-O2	-6.12	117.92	122.20
1	2	1188	C	N3-C4-C5	-6.12	119.45	121.90
36	1	1680	G	N3-C2-N2	-6.12	115.62	119.90
85	5	2842	U	C2-N3-C4	6.12	130.67	127.00
85	5	3359	A	N1-C2-N3	-6.12	126.24	129.30
37	7	121	U	C4-C5-C6	6.12	123.37	119.70
1	2	69	G	N9-C4-C5	-6.12	102.95	105.40
1	2	690	A	C5-C6-N1	6.12	120.76	117.70
1	2	997	G	N7-C8-N9	6.12	116.16	113.10
1	2	1008	A	N7-C8-N9	6.12	116.86	113.80
1	2	1331	A	N1-C6-N6	6.12	122.27	118.60
1	2	1734	C	C6-N1-C2	-6.12	117.85	120.30
36	1	22	G	N1-C6-O6	-6.12	116.23	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1545	A	N1-C6-N6	-6.12	114.93	118.60
36	1	1783	U	OP1-P-OP2	6.12	128.77	119.60
36	1	2616	C	OP2-P-O3'	6.12	118.66	105.20
36	1	3285	C	C5-C6-N1	6.12	124.06	121.00
36	1	3391	A	C5-C6-N1	6.12	120.76	117.70
37	3	51	A	C4-C5-N7	6.12	113.76	110.70
37	3	51	A	C5-C6-N1	6.12	120.76	117.70
80	6	858	G	C5-N7-C8	-6.12	101.24	104.30
85	5	733	G	N7-C8-N9	6.12	116.16	113.10
85	5	1260	A	N1-C6-N6	6.12	122.27	118.60
85	5	2197	C	N3-C2-O2	6.12	126.18	121.90
85	5	2881	C	N3-C4-C5	-6.12	119.45	121.90
85	5	2950	G	N1-C6-O6	6.12	123.57	119.90
85	5	3339	A	C5-N7-C8	-6.12	100.84	103.90
1	2	121	U	C5-C6-N1	-6.11	119.64	122.70
1	2	1628	G	C5-C6-N1	6.11	114.56	111.50
1	2	1703	G	C4-C5-C6	-6.11	115.13	118.80
36	1	85	A	N3-C4-C5	6.11	131.08	126.80
36	1	350	C	C2-N1-C1'	6.11	125.52	118.80
36	1	389	A	C4-C5-N7	-6.11	107.64	110.70
36	1	2557	A	C5-C6-N1	-6.11	114.64	117.70
36	1	3253	G	C6-C5-N7	-6.11	126.73	130.40
36	1	3360	C	C5-C6-N1	6.11	124.06	121.00
37	3	2	G	O5'-P-OP1	-6.11	100.20	105.70
80	6	299	A	N3-C4-C5	6.11	131.08	126.80
80	6	735	C	N1-C2-O2	6.11	122.57	118.90
85	5	680	G	C5-N7-C8	-6.11	101.24	104.30
85	5	2750	U	C4-C5-C6	6.11	123.37	119.70
85	5	2834	G	N3-C2-N2	-6.11	115.62	119.90
85	5	2983	C	C5-C4-N4	6.11	124.48	120.20
36	1	992	A	N3-C4-N9	-6.11	122.51	127.40
36	1	2898	G	N3-C4-C5	-6.11	125.54	128.60
80	6	885	G	N1-C2-N2	6.11	121.70	116.20
85	5	190	U	N3-C2-O2	-6.11	117.92	122.20
85	5	1229	G	C5-C6-O6	-6.11	124.93	128.60
85	5	2914	G	C5-N7-C8	-6.11	101.24	104.30
37	7	82	G	N1-C6-O6	-6.11	116.23	119.90
1	2	8	U	OP1-P-O3'	6.11	118.64	105.20
1	2	426	G	C2-N3-C4	-6.11	108.84	111.90
1	2	671	G	N1-C6-O6	-6.11	116.23	119.90
1	2	857	C	C2-N3-C4	6.11	122.96	119.90
1	2	977	G	C5-N7-C8	6.11	107.36	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1331	A	C8-N9-C4	6.11	108.25	105.80
1	2	1716	C	C5-C6-N1	6.11	124.06	121.00
36	1	743	C	O5'-P-OP1	-6.11	100.20	105.70
36	1	1217	A	N1-C6-N6	-6.11	114.93	118.60
36	1	1447	G	C5-N7-C8	6.11	107.36	104.30
36	1	3097	C	N3-C4-N4	-6.11	113.72	118.00
36	1	3336	A	C4-C5-C6	6.11	120.06	117.00
80	6	2	A	N1-C2-N3	6.11	132.36	129.30
80	6	786	C	C2-N3-C4	6.11	122.95	119.90
80	6	904	G	N3-C2-N2	6.11	124.18	119.90
80	6	1016	C	C2-N3-C4	6.11	122.95	119.90
80	6	1103	U	N3-C4-O4	-6.11	115.12	119.40
80	6	1773	C	C6-N1-C2	-6.11	117.86	120.30
85	5	128	G	N3-C4-C5	-6.11	125.55	128.60
85	5	560	G	C4-C5-N7	6.11	113.24	110.80
85	5	725	G	N1-C2-N3	6.11	127.57	123.90
85	5	2615	G	N7-C8-N9	6.11	116.16	113.10
36	1	53	G	C6-N1-C2	-6.11	121.44	125.10
36	1	1824	U	N1-C2-O2	-6.11	118.52	122.80
36	1	2273	G	OP1-P-OP2	6.11	128.76	119.60
80	6	263	C	N3-C4-N4	6.11	122.28	118.00
85	5	737	G	N1-C2-N2	-6.11	110.70	116.20
85	5	953	G	C6-N1-C2	-6.11	121.43	125.10
85	5	977	C	C2-N3-C4	-6.11	116.85	119.90
85	5	1321	G	N7-C8-N9	6.11	116.15	113.10
85	5	1661	G	N3-C2-N2	6.11	124.18	119.90
85	5	3222	U	C5-C4-O4	6.11	129.56	125.90
85	5	3361	G	C8-N9-C4	-6.11	103.96	106.40
47	m0	76	MET	CA-CB-CG	6.11	123.69	113.30
1	2	779	A	C8-N9-C4	-6.11	103.36	105.80
1	2	835	C	N1-C2-O2	6.11	122.56	118.90
36	1	140	C	N3-C2-O2	-6.11	117.62	121.90
36	1	164	A	N1-C6-N6	6.11	122.27	118.60
36	1	189	G	N3-C2-N2	-6.11	115.62	119.90
36	1	401	U	OP1-P-O3'	6.11	118.63	105.20
36	1	528	U	C2-N3-C4	6.11	130.66	127.00
36	1	564	G	C6-C5-N7	6.11	134.06	130.40
36	1	635	G	N3-C2-N2	-6.11	115.62	119.90
36	1	943	U	C2-N3-C4	-6.11	123.34	127.00
36	1	1135	A	OP1-P-OP2	6.11	128.76	119.60
36	1	1352	A	C2-N3-C4	6.11	113.65	110.60
36	1	1480	G	O4'-C1'-N9	6.11	113.09	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2360	C	C5-C6-N1	-6.11	117.95	121.00
36	1	2608	G	N3-C4-C5	6.11	131.65	128.60
36	1	2609	A	C5-C6-N6	6.11	128.59	123.70
36	1	2951	G	C4-C5-N7	-6.11	108.36	110.80
36	1	3186	A	N1-C2-N3	6.11	132.35	129.30
36	1	3209	A	C8-N9-C4	-6.11	103.36	105.80
36	1	3255	U	C6-N1-C2	6.11	124.66	121.00
38	4	60	U	N1-C2-O2	6.11	127.08	122.80
80	6	327	U	O4'-C1'-N1	6.11	113.09	108.20
80	6	1000	C	C5-C4-N4	-6.11	115.92	120.20
85	5	114	A	N3-C4-C5	6.11	131.08	126.80
85	5	2702	A	C8-N9-C4	-6.11	103.36	105.80
1	2	222	A	N1-C6-N6	6.11	122.26	118.60
1	2	1587	U	C5-C6-N1	6.11	125.75	122.70
36	1	323	A	N1-C6-N6	-6.11	114.94	118.60
36	1	618	C	N3-C2-O2	-6.11	117.63	121.90
36	1	659	G	OP1-P-OP2	-6.11	110.44	119.60
36	1	951	A	C4-C5-C6	6.11	120.05	117.00
36	1	1468	A	N1-C6-N6	6.11	122.26	118.60
36	1	3271	G	C5-N7-C8	6.11	107.35	104.30
44	L7	89	ILE	CG1-CB-CG2	-6.11	97.97	111.40
80	6	60	U	N1-C2-O2	6.11	127.07	122.80
85	5	667	C	OP2-P-O3'	-6.11	91.77	105.20
85	5	998	A	C4-C5-N7	-6.11	107.65	110.70
85	5	1044	U	C6-N1-C2	-6.11	117.34	121.00
85	5	1510	G	N1-C6-O6	6.11	123.56	119.90
85	5	2862	U	C6-N1-C2	6.11	124.66	121.00
85	5	3013	U	N3-C2-O2	-6.11	117.93	122.20
85	5	3182	G	OP1-P-OP2	-6.11	110.44	119.60
1	2	6	G	N1-C2-N3	6.10	127.56	123.90
36	1	120	G	C4-C5-C6	-6.10	115.14	118.80
36	1	1161	G	C6-C5-N7	-6.10	126.74	130.40
36	1	2353	G	C4-C5-N7	-6.10	108.36	110.80
36	1	2406	C	N3-C2-O2	6.10	126.17	121.90
36	1	2422	C	C6-N1-C1'	6.10	128.12	120.80
36	1	3132	C	OP1-P-OP2	-6.10	110.44	119.60
38	4	156	U	N3-C4-O4	6.10	123.67	119.40
80	6	1034	C	C5-C6-N1	6.10	124.05	121.00
85	5	215	G	O4'-C1'-N9	6.10	113.08	108.20
85	5	757	C	N1-C2-N3	-6.10	114.93	119.20
85	5	1681	U	N1-C2-O2	-6.10	118.53	122.80
1	2	137	U	N1-C2-O2	6.10	127.07	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1471	G	N3-C4-C5	-6.10	125.55	128.60
36	1	244	G	C2-N3-C4	6.10	114.95	111.90
36	1	779	G	C2-N3-C4	-6.10	108.85	111.90
36	1	894	G	C4-N9-C1'	6.10	134.43	126.50
36	1	1726	C	O5'-P-OP2	-6.10	100.21	105.70
36	1	2896	A	O5'-P-OP1	6.10	118.02	110.70
36	1	3214	U	O5'-P-OP2	-6.10	100.21	105.70
36	1	3315	G	N7-C8-N9	-6.10	110.05	113.10
37	3	18	C	N3-C2-O2	-6.10	117.63	121.90
37	3	103	A	C5-C6-N1	6.10	120.75	117.70
80	6	1274	C	N3-C4-C5	-6.10	119.46	121.90
85	5	99	A	C4-C5-N7	6.10	113.75	110.70
85	5	846	A	N7-C8-N9	6.10	116.85	113.80
85	5	957	C	C2-N3-C4	-6.10	116.85	119.90
85	5	1289	G	O5'-P-OP1	-6.10	100.21	105.70
85	5	1742	U	N1-C2-N3	-6.10	111.24	114.90
85	5	2253	G	C6-C5-N7	-6.10	126.74	130.40
85	5	2287	C	OP1-P-OP2	6.10	128.75	119.60
85	5	2919	A	O4'-C1'-N9	-6.10	103.32	108.20
85	5	3043	C	C5-C6-N1	6.10	124.05	121.00
38	8	54	A	C2-N3-C4	-6.10	107.55	110.60
1	2	295	A	OP1-P-OP2	6.10	128.75	119.60
36	1	589	A	C5-N7-C8	6.10	106.95	103.90
38	4	52	A	P-O3'-C3'	-6.10	112.38	119.70
80	6	12	U	N1-C2-O2	-6.10	118.53	122.80
80	6	309	C	C6-N1-C2	6.10	122.74	120.30
80	6	473	A	C6-N1-C2	-6.10	114.94	118.60
80	6	882	U	C6-N1-C2	-6.10	117.34	121.00
80	6	1800	A	C2-N3-C4	6.10	113.65	110.60
85	5	3148	U	N1-C2-N3	6.10	118.56	114.90
1	2	946	A	N1-C6-N6	-6.10	114.94	118.60
1	2	978	A	C6-N1-C2	-6.10	114.94	118.60
1	2	1525	G	N3-C4-C5	-6.10	125.55	128.60
36	1	934	G	N1-C2-N3	6.10	127.56	123.90
36	1	2710	C	N1-C2-O2	-6.10	115.24	118.90
36	1	3187	A	C5-C6-N6	-6.10	118.82	123.70
38	4	8	C	C2-N3-C4	-6.10	116.85	119.90
80	6	1147	A	OP1-P-OP2	6.10	128.75	119.60
80	6	1195	C	N3-C4-N4	6.10	122.27	118.00
80	6	1305	U	N1-C2-N3	-6.10	111.24	114.90
80	6	1451	C	C5-C6-N1	6.10	124.05	121.00
85	5	115	A	N1-C6-N6	6.10	122.26	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	776	U	C4-C5-C6	6.10	123.36	119.70
85	5	846	A	N9-C4-C5	6.10	108.24	105.80
85	5	929	A	N7-C8-N9	-6.10	110.75	113.80
85	5	1145	G	C2-N3-C4	6.10	114.95	111.90
85	5	1345	G	N1-C6-O6	-6.10	116.24	119.90
85	5	1850	A	C6-N1-C2	-6.10	114.94	118.60
85	5	2258	U	C5-C4-O4	-6.10	122.24	125.90
85	5	2731	U	N3-C4-O4	6.10	123.67	119.40
85	5	3055	U	C4-C5-C6	6.10	123.36	119.70
85	5	3239	G	C6-C5-N7	-6.10	126.74	130.40
85	5	3390	G	O5'-P-OP2	-6.10	100.21	105.70
36	1	115	A	C6-C5-N7	6.10	136.57	132.30
36	1	165	A	N7-C8-N9	6.10	116.85	113.80
36	1	347	G	C4-C5-C6	6.10	122.46	118.80
36	1	631	U	O5'-P-OP2	-6.10	100.21	105.70
36	1	1169	A	N3-C4-C5	-6.10	122.53	126.80
36	1	3251	U	N3-C4-O4	-6.10	115.13	119.40
36	1	3383	G	OP1-P-O3'	6.10	118.61	105.20
85	5	575	G	N9-C4-C5	6.10	107.84	105.40
85	5	808	A	N3-C4-C5	-6.10	122.53	126.80
85	5	824	C	P-O3'-C3'	-6.10	112.38	119.70
85	5	1008	U	C5-C4-O4	6.10	129.56	125.90
85	5	1690	C	N3-C2-O2	-6.10	117.63	121.90
85	5	1815	U	N3-C4-C5	6.10	118.26	114.60
85	5	1834	U	C4-C5-C6	6.10	123.36	119.70
85	5	2220	A	C6-C5-N7	-6.10	128.03	132.30
85	5	2541	U	N3-C4-C5	6.10	118.26	114.60
38	8	125	U	N3-C4-C5	6.10	118.26	114.60
47	m0	153	ARG	NE-CZ-NH2	-6.10	117.25	120.30
1	2	1019	A	C6-N1-C2	-6.10	114.94	118.60
1	2	1486	A	C4-C5-N7	6.10	113.75	110.70
36	1	625	G	OP1-P-OP2	-6.10	110.46	119.60
36	1	747	A	OP1-P-OP2	-6.10	110.46	119.60
36	1	2871	G	O5'-P-OP2	6.10	118.02	110.70
36	1	3146	G	N3-C4-C5	6.10	131.65	128.60
36	1	3215	A	C4-C5-N7	-6.10	107.65	110.70
85	5	362	U	N1-C2-N3	-6.10	111.24	114.90
85	5	856	G	C5-C6-N1	6.10	114.55	111.50
85	5	2791	G	C8-N9-C4	6.10	108.84	106.40
85	5	2997	G	C2-N3-C4	-6.10	108.85	111.90
1	2	741	U	N3-C2-O2	-6.09	117.93	122.20
1	2	823	U	C5-C4-O4	-6.09	122.24	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1113	G	C6-C5-N7	-6.09	126.74	130.40
1	2	1198	C	N3-C4-C5	-6.09	119.46	121.90
1	2	1603	C	C2-N3-C4	6.09	122.95	119.90
36	1	182	U	N3-C4-C5	6.09	118.26	114.60
36	1	754	G	N1-C2-N3	-6.09	120.24	123.90
36	1	1359	C	N3-C4-C5	6.09	124.34	121.90
36	1	1927	G	N3-C4-C5	6.09	131.65	128.60
36	1	2508	U	OP1-P-OP2	-6.09	110.46	119.60
36	1	2815	G	N3-C2-N2	-6.09	115.63	119.90
36	1	3099	C	N3-C4-N4	6.09	122.27	118.00
38	4	12	A	N7-C8-N9	6.09	116.85	113.80
80	6	92	A	N3-C4-C5	6.09	131.07	126.80
80	6	103	A	C4-N9-C1'	6.09	137.27	126.30
80	6	416	A	C4-C5-C6	6.09	120.05	117.00
80	6	1074	G	C2-N3-C4	-6.09	108.85	111.90
80	6	1399	C	N3-C4-N4	6.09	122.27	118.00
80	6	1750	A	OP2-P-O3'	6.09	118.61	105.20
85	5	915	A	N1-C6-N6	-6.09	114.94	118.60
85	5	1097	G	N3-C2-N2	-6.09	115.63	119.90
85	5	1472	U	C6-N1-C2	6.09	124.66	121.00
85	5	1493	G	OP1-P-O3'	6.09	118.61	105.20
85	5	1506	A	N9-C4-C5	-6.09	103.36	105.80
85	5	2550	U	C4-C5-C6	6.09	123.36	119.70
85	5	2818	U	C2-N3-C4	-6.09	123.34	127.00
37	7	117	A	C8-N9-C4	-6.09	103.36	105.80
38	8	97	A	O5'-P-OP2	6.09	118.01	110.70
1	2	474	A	N1-C6-N6	6.09	122.26	118.60
1	2	819	U	C4-C5-C6	-6.09	116.04	119.70
80	6	239	C	C5-C6-N1	6.09	124.05	121.00
80	6	903	U	C6-N1-C2	6.09	124.66	121.00
80	6	1549	C	O5'-P-OP2	6.09	118.01	110.70
85	5	600	G	C5-N7-C8	-6.09	101.25	104.30
85	5	1378	U	N1-C2-O2	-6.09	118.53	122.80
85	5	2669	G	C5-C6-N1	-6.09	108.45	111.50
85	5	3245	A	N7-C8-N9	6.09	116.85	113.80
1	2	847	U	N3-C4-C5	-6.09	110.94	114.60
36	1	57	A	N7-C8-N9	6.09	116.85	113.80
36	1	302	U	N1-C2-N3	6.09	118.56	114.90
36	1	405	U	N3-C4-C5	6.09	118.25	114.60
36	1	1788	C	C6-N1-C2	-6.09	117.86	120.30
36	1	2312	A	OP1-P-O3'	-6.09	91.80	105.20
36	1	2816	G	O5'-P-OP1	-6.09	100.22	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3031	G	N3-C2-N2	-6.09	115.64	119.90
36	1	3252	G	O5'-P-OP1	6.09	118.01	110.70
42	L5	285	ARG	NE-CZ-NH1	-6.09	117.25	120.30
80	6	145	A	N1-C6-N6	-6.09	114.95	118.60
80	6	569	C	N3-C4-C5	-6.09	119.46	121.90
85	5	224	C	C5-C4-N4	-6.09	115.94	120.20
85	5	332	C	N1-C2-O2	-6.09	115.25	118.90
85	5	685	G	N1-C2-N3	6.09	127.56	123.90
85	5	1152	G	C5-C6-N1	-6.09	108.45	111.50
85	5	1735	G	C4-C5-N7	6.09	113.24	110.80
85	5	2733	A	N1-C2-N3	6.09	132.35	129.30
85	5	2989	U	N1-C2-N3	-6.09	111.25	114.90
85	5	3050	U	N1-C2-N3	6.09	118.56	114.90
52	m6	116	LYS	CD-CE-NZ	-6.09	97.69	111.70
36	1	260	C	C4-C5-C6	-6.09	114.36	117.40
36	1	1209	G	N1-C6-O6	6.09	123.55	119.90
36	1	1213	G	C5-C6-O6	-6.09	124.95	128.60
36	1	1544	G	C2-N3-C4	6.09	114.94	111.90
36	1	1659	U	N3-C2-O2	-6.09	117.94	122.20
36	1	2288	G	C4-N9-C1'	6.09	134.42	126.50
36	1	2351	U	C5-C6-N1	6.09	125.75	122.70
36	1	2678	A	C2-N3-C4	-6.09	107.56	110.60
38	4	37	A	C6-N1-C2	-6.09	114.95	118.60
80	6	469	C	N3-C2-O2	6.09	126.16	121.90
80	6	1720	G	N3-C4-N9	6.09	129.65	126.00
85	5	1332	A	C6-C5-N7	-6.09	128.04	132.30
85	5	1393	A	OP1-P-OP2	6.09	128.73	119.60
85	5	1462	A	C4-C5-N7	6.09	113.75	110.70
85	5	1501	U	C2-N3-C4	6.09	130.65	127.00
85	5	1667	A	N7-C8-N9	6.09	116.84	113.80
85	5	2435	G	N9-C4-C5	-6.09	102.96	105.40
85	5	2835	U	O5'-P-OP1	-6.09	100.22	105.70
85	5	3377	G	OP1-P-OP2	6.09	128.74	119.60
37	7	10	C	O4'-C1'-N1	-6.09	103.33	108.20
37	7	61	G	N9-C4-C5	-6.09	102.96	105.40
37	7	100	C	O5'-P-OP1	6.09	118.01	110.70
1	2	322	G	N1-C6-O6	-6.09	116.25	119.90
1	2	610	G	C4-C5-C6	6.09	122.45	118.80
36	1	2443	A	C5-C6-N6	-6.09	118.83	123.70
80	6	1012	U	N3-C2-O2	-6.09	117.94	122.20
85	5	386	A	O4'-C1'-N9	-6.09	103.33	108.20
85	5	1446	A	OP1-P-O3'	6.09	118.59	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2180	G	C4-C5-N7	6.09	113.23	110.80
85	5	3369	G	N1-C2-N3	6.09	127.55	123.90
1	2	247	A	C5-C6-N1	-6.09	114.66	117.70
1	2	962	A	C6-N1-C2	-6.09	114.95	118.60
36	1	114	A	C5-C6-N6	-6.09	118.83	123.70
36	1	124	U	OP2-P-O3'	6.09	118.59	105.20
36	1	754	G	N9-C4-C5	-6.09	102.97	105.40
36	1	802	C	OP1-P-OP2	-6.09	110.47	119.60
36	1	979	U	P-O3'-C3'	6.09	127.00	119.70
36	1	1040	A	C5-C6-N6	6.09	128.57	123.70
36	1	1549	U	O5'-P-OP1	-6.09	100.22	105.70
36	1	1918	C	OP1-P-OP2	-6.09	110.47	119.60
36	1	2114	C	O5'-P-OP2	-6.09	100.22	105.70
80	6	190	C	C5-C4-N4	-6.09	115.94	120.20
80	6	1090	C	N1-C2-O2	6.09	122.55	118.90
80	6	1658	G	N3-C2-N2	6.09	124.16	119.90
85	5	104	G	N9-C4-C5	-6.09	102.97	105.40
85	5	352	A	C4-C5-C6	-6.09	113.96	117.00
85	5	401	U	C4-C5-C6	6.09	123.35	119.70
85	5	845	G	N3-C4-N9	6.09	129.65	126.00
85	5	1501	U	C5-C4-O4	6.09	129.55	125.90
85	5	1856	C	OP1-P-OP2	-6.09	110.47	119.60
85	5	3122	A	N1-C6-N6	-6.09	114.95	118.60
64	n8	42	ARG	NE-CZ-NH1	6.09	123.34	120.30
91	p	75	C	O5'-P-OP2	-6.09	100.22	105.70
1	2	659	G	C5-C6-O6	-6.08	124.95	128.60
1	2	1068	G	N3-C4-N9	6.08	129.65	126.00
36	1	289	A	N1-C2-N3	6.08	132.34	129.30
36	1	760	G	C6-C5-N7	-6.08	126.75	130.40
36	1	1644	C	C4-C5-C6	6.08	120.44	117.40
36	1	1887	A	C4-C5-N7	-6.08	107.66	110.70
36	1	2756	C	C2-N3-C4	-6.08	116.86	119.90
36	1	3134	A	N9-C4-C5	-6.08	103.37	105.80
85	5	651	G	C5-N7-C8	-6.08	101.26	104.30
85	5	822	G	C5-C6-O6	-6.08	124.95	128.60
85	5	929	A	N3-C4-C5	-6.08	122.54	126.80
85	5	1513	G	OP1-P-O3'	6.08	118.59	105.20
85	5	2380	U	N3-C2-O2	6.08	126.46	122.20
85	5	2425	G	C8-N9-C4	6.08	108.83	106.40
85	5	2600	C	C4-C5-C6	6.08	120.44	117.40
85	5	2793	G	N3-C4-C5	6.08	131.64	128.60
85	5	2976	A	C4-C5-C6	6.08	120.04	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	685	G	C5-C6-N1	-6.08	108.46	111.50
1	2	1229	C	C6-N1-C2	-6.08	117.87	120.30
1	2	1723	A	C5-C6-N6	-6.08	118.83	123.70
36	1	888	A	C2-N3-C4	-6.08	107.56	110.60
36	1	1848	G	N3-C4-N9	6.08	129.65	126.00
36	1	1856	C	OP1-P-OP2	-6.08	110.48	119.60
36	1	2205	U	N3-C2-O2	-6.08	117.94	122.20
36	1	2773	C	C5-C6-N1	-6.08	117.96	121.00
36	1	2775	U	N1-C2-N3	6.08	118.55	114.90
36	1	3377	G	C5-N7-C8	-6.08	101.26	104.30
80	6	518	A	C5-N7-C8	6.08	106.94	103.90
80	6	1718	G	N9-C4-C5	6.08	107.83	105.40
85	5	1699	A	N9-C4-C5	6.08	108.23	105.80
85	5	1951	C	N3-C4-C5	6.08	124.33	121.90
85	5	2521	U	C4-C5-C6	6.08	123.35	119.70
85	5	2687	G	N3-C4-C5	-6.08	125.56	128.60
85	5	2923	U	C5-C6-N1	6.08	125.74	122.70
85	5	3101	G	C4-C5-N7	-6.08	108.37	110.80
36	1	219	A	C2-N3-C4	6.08	113.64	110.60
36	1	435	C	C2-N1-C1'	-6.08	112.11	118.80
36	1	561	C	C5-C4-N4	-6.08	115.94	120.20
36	1	1193	A	N1-C6-N6	6.08	122.25	118.60
36	1	1304	A	N9-C4-C5	6.08	108.23	105.80
36	1	1325	U	P-O3'-C3'	-6.08	112.40	119.70
36	1	1538	G	C5-C6-O6	6.08	132.25	128.60
36	1	1930	A	C5-N7-C8	-6.08	100.86	103.90
36	1	2214	A	O5'-P-OP1	-6.08	100.23	105.70
36	1	2537	U	P-O3'-C3'	6.08	127.00	119.70
36	1	3064	U	N3-C4-C5	-6.08	110.95	114.60
36	1	3182	G	O5'-P-OP1	6.08	118.00	110.70
41	L4	98	ARG	NE-CZ-NH1	-6.08	117.26	120.30
80	6	195	G	C8-N9-C4	-6.08	103.97	106.40
80	6	196	G	N1-C6-O6	-6.08	116.25	119.90
80	6	1764	C	OP2-P-O3'	-6.08	91.82	105.20
85	5	417	A	C6-N1-C2	-6.08	114.95	118.60
85	5	1374	G	C5-C6-N1	6.08	114.54	111.50
85	5	1668	G	C8-N9-C4	6.08	108.83	106.40
85	5	2355	G	C5-N7-C8	-6.08	101.26	104.30
85	5	2610	G	N1-C2-N3	6.08	127.55	123.90
85	5	2619	G	N1-C2-N3	-6.08	120.25	123.90
1	2	330	G	N9-C4-C5	6.08	107.83	105.40
1	2	965	U	N1-C2-O2	-6.08	118.54	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	393	U	O5'-P-OP2	6.08	118.00	110.70
36	1	1336	U	C2-N3-C4	-6.08	123.35	127.00
36	1	2130	G	C8-N9-C4	-6.08	103.97	106.40
36	1	3197	G	N1-C6-O6	6.08	123.55	119.90
64	N8	9	ARG	NE-CZ-NH2	6.08	123.34	120.30
80	6	1162	C	C4-C5-C6	6.08	120.44	117.40
80	6	1676	U	C2-N3-C4	6.08	130.65	127.00
85	5	76	G	C4-C5-N7	6.08	113.23	110.80
85	5	246	U	N3-C4-O4	-6.08	115.14	119.40
85	5	400	G	C6-N1-C2	-6.08	121.45	125.10
85	5	1138	U	OP2-P-O3'	6.08	118.58	105.20
85	5	1636	U	N3-C2-O2	6.08	126.46	122.20
85	5	2712	U	C5-C4-O4	-6.08	122.25	125.90
1	2	99	C	N3-C4-N4	-6.08	113.75	118.00
1	2	1086	U	N1-C2-O2	6.08	127.06	122.80
1	2	1588	G	N3-C2-N2	-6.08	115.64	119.90
36	1	622	A	C2-N3-C4	-6.08	107.56	110.60
36	1	932	U	N3-C4-O4	-6.08	115.14	119.40
36	1	989	A	C8-N9-C4	6.08	108.23	105.80
36	1	1314	C	O5'-P-OP1	-6.08	100.23	105.70
36	1	2182	A	O5'-P-OP2	6.08	117.99	110.70
80	6	57	G	N9-C4-C5	6.08	107.83	105.40
80	6	306	U	N1-C2-N3	6.08	118.55	114.90
80	6	611	U	C6-N1-C1'	-6.08	112.69	121.20
80	6	1750	A	O5'-P-OP2	-6.08	100.23	105.70
80	6	1770	U	C5-C6-N1	-6.08	119.66	122.70
85	5	1264	G	C5-C6-N1	6.08	114.54	111.50
85	5	2560	C	N3-C2-O2	6.08	126.15	121.90
85	5	2620	G	C6-C5-N7	-6.08	126.75	130.40
85	5	3061	G	C4-C5-N7	6.08	113.23	110.80
38	8	109	A	C5-N7-C8	-6.08	100.86	103.90
36	1	2631	U	OP2-P-O3'	6.08	118.57	105.20
36	1	2828	G	N1-C2-N3	6.08	127.55	123.90
36	1	3128	G	C5-C6-N1	6.08	114.54	111.50
38	4	10	A	C4-C5-N7	-6.08	107.66	110.70
1	2	15	U	N3-C2-O2	-6.08	117.95	122.20
1	2	1103	U	C5-C6-N1	-6.08	119.66	122.70
36	1	56	G	N9-C4-C5	-6.08	102.97	105.40
36	1	408	A	C6-N1-C2	-6.08	114.95	118.60
36	1	1506	A	N1-C6-N6	-6.08	114.95	118.60
36	1	1616	U	N3-C4-O4	-6.08	115.15	119.40
36	1	1747	G	N7-C8-N9	6.08	116.14	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1909	A	C5-C6-N1	-6.08	114.66	117.70
80	6	153	G	N9-C4-C5	-6.08	102.97	105.40
80	6	243	G	N3-C4-C5	6.08	131.64	128.60
80	6	652	G	O5'-P-OP1	-6.08	100.23	105.70
85	5	507	U	N3-C2-O2	-6.08	117.95	122.20
85	5	1869	C	N3-C4-N4	-6.08	113.75	118.00
85	5	2401	A	C8-N9-C4	-6.08	103.37	105.80
85	5	3032	A	C4-C5-C6	6.08	120.04	117.00
1	2	1137	G	C6-C5-N7	-6.07	126.76	130.40
1	2	1558	G	C6-N1-C2	-6.07	121.46	125.10
1	2	1747	C	C2-N3-C4	-6.07	116.86	119.90
36	1	137	G	C5-C6-O6	-6.07	124.96	128.60
36	1	806	A	C6-C5-N7	-6.07	128.05	132.30
36	1	1298	C	N1-C2-N3	6.07	123.45	119.20
36	1	1386	A	C2-N3-C4	6.07	113.64	110.60
36	1	1664	G	C4-C5-N7	6.07	113.23	110.80
36	1	2873	U	O5'-P-OP2	6.07	117.99	110.70
80	6	140	A	N1-C2-N3	6.07	132.34	129.30
80	6	1285	U	O5'-P-OP2	-6.07	100.23	105.70
85	5	313	A	C8-N9-C4	-6.07	103.37	105.80
85	5	876	A	C5-C6-N1	6.07	120.74	117.70
85	5	920	A	OP2-P-O3'	6.07	118.56	105.20
85	5	1156	C	OP1-P-O3'	6.07	118.56	105.20
85	5	1441	G	N1-C2-N3	6.07	127.54	123.90
85	5	1446	A	C6-N1-C2	-6.07	114.96	118.60
85	5	2180	G	N3-C2-N2	-6.07	115.65	119.90
85	5	2769	A	C5-N7-C8	6.07	106.94	103.90
85	5	3024	A	C6-N1-C2	6.07	122.24	118.60
37	7	31	U	N3-C4-O4	6.07	123.65	119.40
1	2	625	C	N1-C2-N3	6.07	123.45	119.20
1	2	922	A	C5-N7-C8	-6.07	100.86	103.90
36	1	21	G	C4-N9-C1'	6.07	134.39	126.50
36	1	1708	C	OP1-P-OP2	6.07	128.71	119.60
80	6	770	A	O5'-P-OP1	6.07	117.99	110.70
85	5	385	A	C2-N3-C4	-6.07	107.56	110.60
85	5	743	C	OP1-P-O3'	6.07	118.56	105.20
85	5	1394	A	C8-N9-C4	6.07	108.23	105.80
85	5	1893	A	N7-C8-N9	-6.07	110.76	113.80
85	5	2238	G	C4-C5-N7	-6.07	108.37	110.80
1	2	74	U	N1-C2-N3	-6.07	111.26	114.90
1	2	1519	G	N1-C6-O6	-6.07	116.26	119.90
36	1	433	A	N7-C8-N9	-6.07	110.76	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	523	A	N1-C6-N6	-6.07	114.96	118.60
36	1	690	A	C6-N1-C2	6.07	122.24	118.60
36	1	1844	C	OP1-P-OP2	6.07	128.71	119.60
36	1	1865	A	O5'-P-OP1	6.07	117.98	110.70
36	1	2651	G	O5'-P-OP2	-6.07	100.24	105.70
36	1	2882	U	N3-C4-C5	-6.07	110.96	114.60
36	1	3248	C	N3-C4-C5	-6.07	119.47	121.90
38	4	33	A	N1-C6-N6	6.07	122.24	118.60
39	L2	142	ASP	CB-CG-OD2	6.07	123.76	118.30
80	6	204	G	N1-C2-N2	6.07	121.66	116.20
80	6	340	U	N3-C4-C5	-6.07	110.96	114.60
80	6	1557	U	N3-C4-O4	6.07	123.65	119.40
80	6	1777	G	N7-C8-N9	6.07	116.14	113.10
85	5	515	C	C4-C5-C6	-6.07	114.36	117.40
85	5	824	C	N1-C2-O2	-6.07	115.26	118.90
85	5	1725	C	N3-C2-O2	6.07	126.15	121.90
85	5	2399	A	C6-C5-N7	-6.07	128.05	132.30
85	5	2625	C	C6-N1-C2	-6.07	117.87	120.30
85	5	2786	G	C4-C5-C6	6.07	122.44	118.80
85	5	3190	C	N3-C4-N4	6.07	122.25	118.00
36	1	1530	U	O5'-P-OP2	-6.07	100.24	105.70
36	1	1658	G	N1-C2-N3	6.07	127.54	123.90
36	1	2943	G	C5-C6-O6	-6.07	124.96	128.60
80	6	69	G	N7-C8-N9	-6.07	110.07	113.10
85	5	99	A	N3-C4-C5	6.07	131.05	126.80
85	5	270	U	OP1-P-O3'	6.07	118.55	105.20
85	5	347	G	C6-N1-C2	-6.07	121.46	125.10
85	5	1249	G	N3-C2-N2	-6.07	115.65	119.90
85	5	1304	A	C8-N9-C4	6.07	108.23	105.80
85	5	2238	G	C4-C5-C6	6.07	122.44	118.80
1	2	165	G	C5-C6-N1	-6.07	108.47	111.50
1	2	747	U	C2-N3-C4	6.07	130.64	127.00
1	2	1166	A	C5-C6-N1	6.07	120.73	117.70
1	2	1624	C	N3-C4-N4	6.07	122.25	118.00
36	1	680	G	N1-C2-N3	6.07	127.54	123.90
36	1	902	G	C5-N7-C8	-6.07	101.27	104.30
36	1	1458	U	N3-C4-C5	-6.07	110.96	114.60
36	1	3182	G	C4-C5-C6	6.07	122.44	118.80
36	1	3255	U	OP1-P-OP2	6.07	128.70	119.60
80	6	80	A	O5'-P-OP1	-6.07	100.24	105.70
80	6	488	G	N1-C6-O6	6.07	123.54	119.90
85	5	588	G	C5-N7-C8	6.07	107.33	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1043	C	N3-C4-C5	6.07	124.33	121.90
85	5	2578	U	C5-C6-N1	-6.07	119.67	122.70
85	5	3302	U	C2-N1-C1'	-6.07	110.42	117.70
38	8	60	U	OP1-P-O3'	6.07	118.55	105.20
52	m6	41	LEU	CA-CB-CG	6.07	129.26	115.30
1	2	991	G	N1-C6-O6	-6.07	116.26	119.90
36	1	5	G	C5-C6-O6	-6.07	124.96	128.60
36	1	196	G	N1-C6-O6	-6.07	116.26	119.90
36	1	1225	A	C8-N9-C4	6.07	108.23	105.80
36	1	1747	G	C5-C6-N1	-6.07	108.47	111.50
36	1	1790	G	C5-C6-N1	-6.07	108.47	111.50
36	1	1851	G	N1-C6-O6	6.07	123.54	119.90
36	1	3029	A	N7-C8-N9	6.07	116.83	113.80
36	1	3287	U	N3-C2-O2	6.07	126.45	122.20
38	4	26	U	O5'-P-OP2	-6.07	100.24	105.70
76	Q0	82	LEU	CB-CG-CD1	-6.07	100.69	111.00
85	5	43	A	N9-C4-C5	-6.07	103.37	105.80
85	5	826	G	N3-C4-C5	6.07	131.63	128.60
85	5	1237	G	C4-C5-N7	-6.07	108.37	110.80
85	5	1846	C	N3-C2-O2	-6.07	117.65	121.90
85	5	2413	A	C4-C5-N7	6.07	113.73	110.70
85	5	2711	C	C6-N1-C2	-6.07	117.87	120.30
85	5	2932	U	OP1-P-O3'	6.07	118.55	105.20
85	5	3217	C	N1-C2-O2	6.07	122.54	118.90
1	2	1000	U	N1-C2-N3	6.06	118.54	114.90
1	2	1384	A	C2-N3-C4	6.06	113.63	110.60
36	1	818	C	C6-N1-C2	-6.06	117.87	120.30
36	1	1057	A	N1-C2-N3	6.06	132.33	129.30
36	1	1116	G	C5-C6-N1	-6.06	108.47	111.50
36	1	2553	U	OP1-P-OP2	-6.06	110.50	119.60
80	6	457	G	O5'-P-OP2	-6.06	100.24	105.70
85	5	425	G	C4-C5-C6	6.06	122.44	118.80
85	5	686	G	N3-C4-C5	6.06	131.63	128.60
85	5	1446	A	N9-C4-C5	6.06	108.22	105.80
85	5	1513	G	C4-C5-N7	6.06	113.23	110.80
85	5	2231	C	C2-N1-C1'	6.06	125.47	118.80
1	2	1509	A	C4-C5-N7	6.06	113.73	110.70
36	1	13	A	OP1-P-O3'	6.06	118.54	105.20
36	1	215	G	N3-C4-C5	-6.06	125.57	128.60
36	1	392	G	O5'-P-OP2	6.06	117.97	110.70
36	1	426	G	OP1-P-O3'	-6.06	91.86	105.20
36	1	494	G	C8-N9-C4	6.06	108.83	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	830	A	OP1-P-OP2	-6.06	110.51	119.60
36	1	1171	G	C6-N1-C2	-6.06	121.46	125.10
36	1	1358	C	C5-C6-N1	-6.06	117.97	121.00
36	1	1432	C	OP1-P-O3'	6.06	118.54	105.20
36	1	1454	A	C2-N3-C4	-6.06	107.57	110.60
36	1	2139	A	C6-N1-C2	-6.06	114.96	118.60
36	1	2615	G	C6-N1-C2	-6.06	121.46	125.10
36	1	2660	G	C5-N7-C8	-6.06	101.27	104.30
36	1	2889	C	OP1-P-OP2	-6.06	110.50	119.60
36	1	2934	A	O5'-P-OP1	-6.06	100.24	105.70
37	3	100	C	C4-C5-C6	6.06	120.43	117.40
37	3	111	U	C5-C4-O4	6.06	129.54	125.90
80	6	26	A	C8-N9-C4	-6.06	103.38	105.80
80	6	299	A	C5-N7-C8	-6.06	100.87	103.90
80	6	1730	A	OP1-P-OP2	-6.06	110.51	119.60
85	5	345	G	C8-N9-C1'	-6.06	119.12	127.00
85	5	389	A	C5-C6-N1	-6.06	114.67	117.70
85	5	591	G	N3-C2-N2	-6.06	115.66	119.90
85	5	1039	U	C6-N1-C2	6.06	124.64	121.00
85	5	1083	G	C6-C5-N7	6.06	134.04	130.40
85	5	1178	G	C4-C5-C6	6.06	122.44	118.80
85	5	1199	C	N3-C4-C5	-6.06	119.47	121.90
85	5	3202	G	N7-C8-N9	6.06	116.13	113.10
1	2	1757	G	N1-C6-O6	-6.06	116.26	119.90
36	1	369	A	O5'-P-OP1	6.06	117.97	110.70
36	1	1362	G	C4-C5-C6	-6.06	115.16	118.80
36	1	1722	U	C6-N1-C2	6.06	124.64	121.00
62	N6	104	LEU	CB-CG-CD2	-6.06	100.70	111.00
80	6	963	A	C8-N9-C4	6.06	108.22	105.80
85	5	514	G	C6-N1-C2	-6.06	121.46	125.10
85	5	925	A	N9-C4-C5	-6.06	103.38	105.80
85	5	1664	G	N7-C8-N9	-6.06	110.07	113.10
1	2	105	A	N9-C4-C5	6.06	108.22	105.80
1	2	1748	A	N1-C2-N3	6.06	132.33	129.30
36	1	30	G	N1-C6-O6	-6.06	116.26	119.90
36	1	1291	A	C6-C5-N7	-6.06	128.06	132.30
36	1	1589	A	N3-C4-N9	-6.06	122.55	127.40
36	1	2665	U	O5'-P-OP2	6.06	117.97	110.70
36	1	3200	G	C5-N7-C8	6.06	107.33	104.30
38	4	20	U	N3-C2-O2	6.06	126.44	122.20
80	6	523	G	OP2-P-O3'	6.06	118.53	105.20
85	5	87	U	N3-C4-O4	6.06	123.64	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	582	G	C4-N9-C1'	6.06	134.38	126.50
85	5	647	A	C5-C6-N1	6.06	120.73	117.70
85	5	824	C	N1-C2-N3	6.06	123.44	119.20
85	5	1294	A	C4-C5-C6	6.06	120.03	117.00
85	5	1453	A	C2-N3-C4	-6.06	107.57	110.60
85	5	1865	A	N3-C4-C5	6.06	131.04	126.80
85	5	2435	G	C5-N7-C8	-6.06	101.27	104.30
40	l3	161	LEU	CB-CG-CD2	-6.06	100.70	111.00
36	1	622	A	N9-C4-C5	-6.06	103.38	105.80
36	1	864	G	O5'-P-OP2	6.06	117.97	110.70
36	1	1896	A	OP1-P-OP2	6.06	128.69	119.60
36	1	2700	G	C6-N1-C2	-6.06	121.47	125.10
36	1	3213	A	N1-C2-N3	6.06	132.33	129.30
37	3	8	G	C8-N9-C4	6.06	108.82	106.40
80	6	302	U	C4-C5-C6	6.06	123.33	119.70
80	6	994	G	C5-C6-N1	-6.06	108.47	111.50
80	6	1661	U	N3-C2-O2	6.06	126.44	122.20
85	5	343	U	N1-C2-O2	-6.06	118.56	122.80
85	5	660	A	C6-C5-N7	6.06	136.54	132.30
85	5	672	A	N9-C4-C5	6.06	108.22	105.80
85	5	1755	C	O5'-P-OP2	6.06	117.97	110.70
85	5	1800	A	OP1-P-OP2	-6.06	110.52	119.60
85	5	1863	G	O5'-P-OP1	6.06	117.97	110.70
85	5	2346	C	C5-C6-N1	6.06	124.03	121.00
85	5	2714	G	N9-C4-C5	6.06	107.82	105.40
85	5	3231	U	C2-N3-C4	6.06	130.63	127.00
37	7	51	A	N9-C4-C5	6.06	108.22	105.80
38	8	15	G	C5-C6-N1	6.06	114.53	111.50
52	m6	189	ASP	CB-CG-OD1	6.06	123.75	118.30
1	2	555	A	C8-N9-C4	-6.06	103.38	105.80
36	1	1247	U	C5-C6-N1	6.06	125.73	122.70
36	1	2310	U	N3-C4-C5	-6.06	110.97	114.60
36	1	2604	U	O5'-P-OP2	6.06	117.97	110.70
36	1	3129	A	C6-N1-C2	-6.06	114.97	118.60
80	6	634	G	O5'-P-OP1	6.06	117.97	110.70
85	5	565	U	C4-C5-C6	-6.06	116.07	119.70
1	2	419	G	N1-C6-O6	-6.05	116.27	119.90
1	2	1000	U	OP1-P-OP2	6.05	128.68	119.60
1	2	1618	A	OP1-P-OP2	-6.05	110.52	119.60
36	1	416	A	OP1-P-OP2	-6.05	110.52	119.60
36	1	591	G	N1-C2-N3	6.05	127.53	123.90
36	1	1031	C	C6-N1-C2	6.05	122.72	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1367	G	O5'-P-OP2	6.05	117.97	110.70
36	1	1437	C	C5-C4-N4	6.05	124.44	120.20
36	1	1495	U	C6-N1-C2	6.05	124.63	121.00
36	1	1790	G	N3-C4-N9	6.05	129.63	126.00
36	1	2658	G	C8-N9-C4	6.05	108.82	106.40
36	1	2785	A	C6-N1-C2	-6.05	114.97	118.60
80	6	71	A	C8-N9-C4	6.05	108.22	105.80
80	6	911	U	N1-C2-N3	6.05	118.53	114.90
80	6	1105	C	N3-C4-N4	6.05	122.24	118.00
80	6	1228	G	C5-C6-N1	6.05	114.53	111.50
85	5	726	G	N1-C6-O6	6.05	123.53	119.90
85	5	1019	G	C2-N3-C4	6.05	114.93	111.90
85	5	1677	G	C2-N3-C4	6.05	114.93	111.90
85	5	2419	A	C5-N7-C8	-6.05	100.87	103.90
85	5	2683	U	N3-C2-O2	-6.05	117.96	122.20
85	5	3333	G	C4-C5-C6	6.05	122.43	118.80
38	8	102	U	O5'-P-OP2	-6.05	100.25	105.70
1	2	854	G	N9-C4-C5	6.05	107.82	105.40
1	2	1179	A	C8-N9-C4	-6.05	103.38	105.80
36	1	428	A	N1-C2-N3	6.05	132.33	129.30
36	1	1819	U	C2-N3-C4	6.05	130.63	127.00
38	4	60	U	OP2-P-O3'	6.05	118.52	105.20
38	4	102	U	C6-N1-C2	-6.05	117.37	121.00
80	6	85	A	C8-N9-C4	-6.05	103.38	105.80
80	6	742	U	N1-C2-O2	-6.05	118.56	122.80
85	5	420	G	N1-C6-O6	-6.05	116.27	119.90
85	5	1929	G	C6-N1-C2	-6.05	121.47	125.10
1	2	327	U	N3-C2-O2	6.05	126.44	122.20
1	2	1631	A	C5-C6-N1	6.05	120.73	117.70
36	1	137	G	OP1-P-OP2	6.05	128.68	119.60
36	1	1102	A	OP2-P-O3'	-6.05	91.89	105.20
36	1	1123	U	N3-C2-O2	6.05	126.44	122.20
36	1	1180	A	N7-C8-N9	-6.05	110.78	113.80
36	1	2254	U	N1-C2-N3	6.05	118.53	114.90
36	1	2804	A	P-O3'-C3'	6.05	126.96	119.70
36	1	3305	A	N7-C8-N9	6.05	116.83	113.80
38	4	15	G	OP1-P-O3'	6.05	118.51	105.20
38	4	87	G	C2-N3-C4	6.05	114.93	111.90
80	6	1051	G	N9-C4-C5	6.05	107.82	105.40
80	6	1079	U	C2-N3-C4	-6.05	123.37	127.00
80	6	1322	A	C5-C6-N1	6.05	120.73	117.70
80	6	1652	C	N3-C4-N4	6.05	122.24	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	914	A	N1-C6-N6	6.05	122.23	118.60
85	5	949	C	N3-C4-N4	6.05	122.24	118.00
85	5	2395	G	N3-C4-C5	6.05	131.63	128.60
85	5	2684	C	N1-C2-O2	-6.05	115.27	118.90
37	7	7	G	N9-C4-C5	6.05	107.82	105.40
91	P	75	C	O5'-P-OP2	-6.05	100.25	105.70
1	2	98	U	O4'-C1'-N1	-6.05	103.36	108.20
1	2	997	G	N1-C2-N3	6.05	127.53	123.90
36	1	76	G	N9-C4-C5	6.05	107.82	105.40
36	1	98	G	C8-N9-C4	-6.05	103.98	106.40
36	1	1127	G	C5-N7-C8	-6.05	101.28	104.30
36	1	1175	C	O5'-P-OP1	-6.05	100.25	105.70
36	1	1404	G	N1-C2-N3	6.05	127.53	123.90
36	1	1650	G	C5-C6-N1	6.05	114.53	111.50
36	1	2589	G	C5-N7-C8	-6.05	101.28	104.30
36	1	3204	C	OP2-P-O3'	6.05	118.51	105.20
38	4	10	A	C5-N7-C8	6.05	106.92	103.90
80	6	905	A	C5-C6-N6	6.05	128.54	123.70
80	6	1117	U	N3-C4-C5	-6.05	110.97	114.60
85	5	553	U	OP1-P-OP2	6.05	128.68	119.60
85	5	656	A	C6-N1-C2	-6.05	114.97	118.60
85	5	1162	U	C5-C4-O4	-6.05	122.27	125.90
85	5	1271	A	N9-C4-C5	-6.05	103.38	105.80
85	5	1586	G	N3-C2-N2	6.05	124.14	119.90
85	5	2169	G	C6-N1-C2	-6.05	121.47	125.10
85	5	2817	A	C5-C6-N6	-6.05	118.86	123.70
85	5	2836	C	C2-N3-C4	6.05	122.92	119.90
85	5	3127	A	N3-C4-C5	-6.05	122.56	126.80
85	5	3164	C	N3-C4-N4	-6.05	113.77	118.00
36	1	1377	G	N1-C2-N3	-6.05	120.27	123.90
36	1	1795	U	O5'-P-OP1	-6.05	100.26	105.70
36	1	3214	U	C2-N1-C1'	6.05	124.96	117.70
85	5	786	A	O5'-P-OP1	6.05	117.96	110.70
85	5	999	G	N9-C4-C5	-6.05	102.98	105.40
85	5	1148	G	C5-C6-O6	-6.05	124.97	128.60
85	5	1180	A	C4-C5-N7	-6.05	107.68	110.70
1	2	109	G	C8-N9-C4	-6.05	103.98	106.40
1	2	630	A	C5-N7-C8	6.05	106.92	103.90
1	2	1596	U	N3-C2-O2	6.05	126.43	122.20
36	1	524	U	C5-C4-O4	6.05	129.53	125.90
36	1	887	G	C5-C6-N1	6.05	114.52	111.50
36	1	936	A	P-O3'-C3'	6.05	126.96	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1623	G	N1-C2-N2	-6.05	110.76	116.20
36	1	2784	G	N1-C6-O6	-6.05	116.27	119.90
36	1	3207	U	C2-N1-C1'	-6.05	110.44	117.70
36	1	3272	C	N1-C2-N3	-6.05	114.97	119.20
38	4	141	C	C5-C4-N4	-6.05	115.97	120.20
80	6	37	U	N1-C2-N3	6.05	118.53	114.90
80	6	1330	G	C2-N3-C4	-6.05	108.88	111.90
85	5	107	A	C5-N7-C8	-6.05	100.88	103.90
85	5	905	U	N3-C2-O2	-6.05	117.97	122.20
85	5	1605	A	C6-N1-C2	-6.05	114.97	118.60
85	5	1790	G	C8-N9-C4	-6.05	103.98	106.40
85	5	2277	C	OP2-P-O3'	6.05	118.50	105.20
85	5	2336	U	N3-C4-C5	6.05	118.23	114.60
85	5	2408	U	C2-N3-C4	-6.05	123.37	127.00
85	5	3172	A	O5'-P-OP2	-6.05	100.26	105.70
85	5	3242	G	C5-C6-O6	6.05	132.23	128.60
37	7	11	A	C5-N7-C8	-6.05	100.88	103.90
37	7	81	U	N1-C2-N3	6.05	118.53	114.90
38	8	61	A	O5'-P-OP2	6.05	117.96	110.70
1	2	777	U	N1-C2-N3	6.04	118.53	114.90
36	1	1096	U	N1-C2-O2	6.04	127.03	122.80
36	1	1522	U	C6-N1-C2	-6.04	117.37	121.00
37	3	4	U	C4-C5-C6	6.04	123.33	119.70
85	5	1280	C	C4-C5-C6	-6.04	114.38	117.40
85	5	2137	U	C6-N1-C1'	-6.04	112.74	121.20
1	2	525	A	OP1-P-OP2	-6.04	110.53	119.60
1	2	1368	G	C2-N3-C4	-6.04	108.88	111.90
1	2	1541	U	N1-C2-O2	6.04	127.03	122.80
1	2	1647	C	N3-C4-C5	-6.04	119.48	121.90
36	1	102	C	C5-C6-N1	-6.04	117.98	121.00
36	1	210	U	C5'-C4'-O4'	-6.04	101.85	109.10
36	1	231	G	C6-N1-C2	-6.04	121.47	125.10
36	1	522	A	C4-C5-N7	6.04	113.72	110.70
36	1	575	G	C5-C6-N1	-6.04	108.48	111.50
36	1	653	A	N9-C4-C5	-6.04	103.38	105.80
36	1	686	G	N1-C2-N3	6.04	127.53	123.90
36	1	1076	C	N3-C4-C5	6.04	124.32	121.90
36	1	1800	A	N7-C8-N9	-6.04	110.78	113.80
36	1	2869	U	N1-C2-O2	-6.04	118.57	122.80
36	1	3253	G	N1-C2-N2	-6.04	110.76	116.20
77	Q1	23	ARG	NE-CZ-NH2	6.04	123.32	120.30
80	6	1124	A	OP1-P-OP2	-6.04	110.53	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1126	G	OP1-P-OP2	-6.04	110.53	119.60
85	5	268	A	C4-C5-C6	6.04	120.02	117.00
85	5	1617	G	C2-N3-C4	-6.04	108.88	111.90
85	5	2413	A	C2-N3-C4	-6.04	107.58	110.60
85	5	2520	A	C4-C5-N7	6.04	113.72	110.70
85	5	2765	C	C5-C6-N1	6.04	124.02	121.00
37	7	33	U	C5-C4-O4	-6.04	122.27	125.90
37	7	114	U	N1-C2-N3	6.04	118.53	114.90
1	2	97	C	N3-C2-O2	-6.04	117.67	121.90
36	1	775	A	C5-C6-N6	-6.04	118.87	123.70
36	1	2315	G	C5-C6-N1	6.04	114.52	111.50
36	1	2957	G	N3-C2-N2	-6.04	115.67	119.90
38	4	78	G	C4-C5-N7	-6.04	108.38	110.80
80	6	265	A	C2-N3-C4	-6.04	107.58	110.60
80	6	684	A	C8-N9-C4	6.04	108.22	105.80
85	5	282	G	C6-C5-N7	-6.04	126.78	130.40
85	5	314	U	OP1-P-OP2	6.04	128.66	119.60
85	5	340	C	OP1-P-OP2	-6.04	110.54	119.60
85	5	586	C	C2-N3-C4	-6.04	116.88	119.90
85	5	846	A	O5'-P-OP2	-6.04	100.26	105.70
85	5	926	A	C5-C6-N1	-6.04	114.68	117.70
85	5	1166	G	C2-N3-C4	-6.04	108.88	111.90
85	5	1604	G	N1-C2-N3	6.04	127.53	123.90
85	5	2409	G	C2-N3-C4	6.04	114.92	111.90
85	5	2697	A	C6-N1-C2	-6.04	114.97	118.60
1	2	69	G	N1-C2-N3	-6.04	120.28	123.90
1	2	145	A	C8-N9-C4	-6.04	103.38	105.80
36	1	289	A	N1-C6-N6	6.04	122.22	118.60
36	1	1662	G	N1-C2-N2	-6.04	110.76	116.20
36	1	3051	U	N1-C2-N3	-6.04	111.28	114.90
38	4	27	U	C6-N1-C1'	-6.04	112.74	121.20
38	4	144	G	C5-C6-N1	-6.04	108.48	111.50
80	6	885	G	C5-C6-O6	-6.04	124.98	128.60
85	5	197	G	C4-N9-C1'	6.04	134.35	126.50
85	5	1878	G	OP1-P-OP2	6.04	128.66	119.60
85	5	2858	U	C2-N3-C4	6.04	130.62	127.00
1	2	145	A	N1-C2-N3	6.04	132.32	129.30
1	2	264	G	N3-C4-C5	6.04	131.62	128.60
1	2	1159	G	C8-N9-C4	-6.04	103.98	106.40
36	1	274	G	C8-N9-C1'	-6.04	119.15	127.00
36	1	644	G	N3-C2-N2	-6.04	115.67	119.90
36	1	904	A	N3-C4-N9	-6.04	122.57	127.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1411	C	O5'-P-OP1	6.04	117.95	110.70
36	1	1412	G	N7-C8-N9	6.04	116.12	113.10
36	1	1842	A	OP1-P-OP2	6.04	128.66	119.60
36	1	3075	G	C2-N3-C4	-6.04	108.88	111.90
36	1	3104	U	N3-C4-O4	6.04	123.63	119.40
36	1	3242	G	C5-C6-N1	6.04	114.52	111.50
36	1	3345	G	N3-C4-N9	6.04	129.62	126.00
80	6	268	C	C5-C4-N4	-6.04	115.97	120.20
80	6	1523	G	N1-C6-O6	-6.04	116.28	119.90
80	6	1737	G	N7-C8-N9	6.04	116.12	113.10
85	5	378	A	N7-C8-N9	-6.04	110.78	113.80
85	5	718	G	O4'-C1'-N9	6.04	113.03	108.20
85	5	753	C	N1-C2-N3	-6.04	114.97	119.20
85	5	1080	A	C4-C5-C6	6.04	120.02	117.00
85	5	1221	A	N7-C8-N9	-6.04	110.78	113.80
85	5	1602	A	N9-C4-C5	6.04	108.22	105.80
85	5	1660	C	N1-C2-O2	6.04	122.52	118.90
85	5	2280	A	C5-N7-C8	-6.04	100.88	103.90
85	5	2382	G	C5-C6-N1	6.04	114.52	111.50
85	5	2662	G	C6-N1-C2	-6.04	121.48	125.10
85	5	2790	A	N3-C4-C5	6.04	131.03	126.80
1	2	1478	C	OP1-P-OP2	6.04	128.66	119.60
36	1	293	C	N3-C4-C5	6.04	124.31	121.90
36	1	702	C	C2-N1-C1'	6.04	125.44	118.80
36	1	932	U	C4-C5-C6	6.04	123.32	119.70
36	1	2524	A	C2-N3-C4	-6.04	107.58	110.60
36	1	2610	G	C6-N1-C2	-6.04	121.48	125.10
80	6	1663	G	C8-N9-C4	-6.04	103.98	106.40
85	5	397	A	N1-C2-N3	6.04	132.32	129.30
85	5	728	G	N1-C6-O6	6.04	123.52	119.90
85	5	817	A	N1-C6-N6	6.04	122.22	118.60
1	2	251	A	OP1-P-OP2	-6.04	110.55	119.60
1	2	717	A	OP1-P-O3'	6.04	118.48	105.20
1	2	1110	G	OP1-P-O3'	6.04	118.48	105.20
1	2	1721	U	OP1-P-O3'	6.04	118.48	105.20
1	2	1722	C	N1-C2-O2	6.04	122.52	118.90
36	1	282	G	C2-N3-C4	-6.04	108.88	111.90
36	1	779	G	C5-C6-O6	-6.04	124.98	128.60
36	1	952	A	OP2-P-O3'	6.04	118.48	105.20
36	1	954	U	N3-C2-O2	6.04	126.42	122.20
36	1	970	A	N1-C6-N6	-6.04	114.98	118.60
36	1	2127	U	C5-C6-N1	-6.04	119.68	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2153	U	N1-C2-N3	6.04	118.52	114.90
36	1	2291	A	OP1-P-OP2	-6.04	110.55	119.60
36	1	2630	C	C6-N1-C2	-6.04	117.89	120.30
36	1	2926	A	C5-C6-N6	-6.04	118.87	123.70
36	1	3212	C	N3-C2-O2	6.04	126.12	121.90
38	4	116	G	N1-C2-N3	6.04	127.52	123.90
80	6	778	G	OP1-P-O3'	6.04	118.48	105.20
80	6	1160	A	N1-C2-N3	6.04	132.32	129.30
85	5	584	G	OP1-P-OP2	6.04	128.65	119.60
85	5	972	A	C5-N7-C8	6.04	106.92	103.90
85	5	1101	G	N3-C4-C5	-6.04	125.58	128.60
85	5	1194	G	OP1-P-OP2	-6.04	110.55	119.60
85	5	1195	A	N9-C4-C5	6.04	108.21	105.80
85	5	1523	U	N3-C4-C5	-6.04	110.98	114.60
85	5	2160	G	C6-C5-N7	6.04	134.02	130.40
1	2	804	U	N1-C2-N3	-6.03	111.28	114.90
36	1	1054	A	O5'-P-OP2	-6.03	100.27	105.70
36	1	1149	G	N1-C6-O6	-6.03	116.28	119.90
36	1	1512	U	C5-C4-O4	6.03	129.52	125.90
36	1	2379	U	C4-C5-C6	6.03	123.32	119.70
36	1	2444	C	C6-N1-C2	6.03	122.71	120.30
36	1	2663	G	C2-N3-C4	-6.03	108.88	111.90
36	1	2997	G	OP1-P-OP2	-6.03	110.55	119.60
61	N5	115	ARG	NE-CZ-NH2	-6.03	117.28	120.30
80	6	1670	G	C4-N9-C1'	6.03	134.34	126.50
85	5	30	G	C8-N9-C1'	-6.03	119.16	127.00
85	5	279	U	N1-C2-N3	-6.03	111.28	114.90
85	5	497	C	N3-C4-N4	-6.03	113.78	118.00
85	5	723	U	O5'-P-OP1	-6.03	100.27	105.70
85	5	904	A	C6-N1-C2	-6.03	114.98	118.60
85	5	1099	A	C5-N7-C8	-6.03	100.88	103.90
85	5	1210	U	N1-C2-N3	6.03	118.52	114.90
85	5	1317	A	N1-C2-N3	-6.03	126.28	129.30
85	5	1327	C	OP1-P-O3'	6.03	118.47	105.20
85	5	2167	A	OP1-P-OP2	-6.03	110.55	119.60
85	5	2797	C	C2-N3-C4	6.03	122.92	119.90
85	5	2800	G	OP1-P-OP2	6.03	128.65	119.60
85	5	3241	G	N1-C2-N3	6.03	127.52	123.90
62	n6	40	ARG	NE-CZ-NH1	-6.03	117.28	120.30
64	n8	21	ARG	NE-CZ-NH1	-6.03	117.28	120.30
1	2	976	A	N7-C8-N9	6.03	116.82	113.80
36	1	909	G	OP2-P-O3'	6.03	118.47	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2755	C	C6-N1-C2	-6.03	117.89	120.30
36	1	2956	A	O5'-P-OP1	6.03	117.94	110.70
36	1	3081	C	OP2-P-O3'	6.03	118.47	105.20
37	3	63	A	N3-C4-C5	-6.03	122.58	126.80
38	4	23	U	C4-C5-C6	6.03	123.32	119.70
80	6	426	G	N1-C2-N2	-6.03	110.77	116.20
80	6	1722	A	OP1-P-OP2	-6.03	110.55	119.60
85	5	2115	G	C6-N1-C2	-6.03	121.48	125.10
85	5	2140	U	O5'-P-OP2	6.03	117.94	110.70
85	5	2535	A	N7-C8-N9	-6.03	110.78	113.80
85	5	2621	G	OP2-P-O3'	6.03	118.47	105.20
85	5	2800	G	N3-C4-C5	-6.03	125.58	128.60
85	5	3353	G	N7-C8-N9	6.03	116.12	113.10
37	7	65	G	N1-C2-N3	-6.03	120.28	123.90
1	2	10	G	C5-N7-C8	6.03	107.31	104.30
1	2	1518	U	C4-C5-C6	6.03	123.32	119.70
36	1	56	G	N1-C2-N2	6.03	121.63	116.20
36	1	258	G	C4-C5-N7	-6.03	108.39	110.80
36	1	1659	U	C4-C5-C6	6.03	123.32	119.70
36	1	2196	C	OP1-P-O3'	6.03	118.47	105.20
36	1	3272	C	N3-C2-O2	6.03	126.12	121.90
37	3	119	U	N1-C2-O2	6.03	127.02	122.80
80	6	215	A	O5'-P-OP2	6.03	117.94	110.70
80	6	461	G	C4-C5-N7	6.03	113.21	110.80
80	6	901	G	C5-C6-O6	-6.03	124.98	128.60
80	6	929	A	C2-N3-C4	-6.03	107.58	110.60
80	6	1401	A	C6-N1-C2	-6.03	114.98	118.60
85	5	110	G	C6-C5-N7	6.03	134.02	130.40
85	5	336	A	N9-C4-C5	-6.03	103.39	105.80
85	5	1363	A	O5'-P-OP2	-6.03	100.27	105.70
85	5	1475	A	OP1-P-OP2	-6.03	110.56	119.60
85	5	1482	A	C8-N9-C4	6.03	108.21	105.80
85	5	2367	A	C5-C6-N6	-6.03	118.88	123.70
85	5	2619	G	N3-C2-N2	6.03	124.12	119.90
38	8	125	U	C5-C4-O4	-6.03	122.28	125.90
39	12	9	ARG	NE-CZ-NH2	-6.03	117.28	120.30
1	2	1069	A	N7-C8-N9	6.03	116.81	113.80
36	1	641	C	OP1-P-O3'	6.03	118.46	105.20
36	1	1933	A	C4-C5-N7	6.03	113.71	110.70
36	1	2116	G	N1-C2-N3	6.03	127.52	123.90
36	1	3181	C	C5-C6-N1	-6.03	117.98	121.00
39	L2	23	ARG	NE-CZ-NH2	-6.03	117.29	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	729	G	C4-C5-N7	6.03	113.21	110.80
85	5	1474	A	OP2-P-O3'	6.03	118.46	105.20
85	5	2607	G	C6-C5-N7	-6.03	126.78	130.40
37	7	33	U	OP1-P-OP2	6.03	128.64	119.60
58	n2	29	ASP	CB-CG-OD2	6.03	123.73	118.30
1	2	43	A	C6-N1-C2	-6.03	114.98	118.60
1	2	599	A	C6-N1-C2	-6.03	114.98	118.60
1	2	600	U	N3-C2-O2	-6.03	117.98	122.20
1	2	975	A	O4'-C1'-N9	6.03	113.02	108.20
1	2	1619	C	N1-C2-O2	-6.03	115.28	118.90
1	2	1644	U	C5-C4-O4	-6.03	122.28	125.90
36	1	754	G	C6-C5-N7	-6.03	126.78	130.40
36	1	1164	G	OP2-P-O3'	6.03	118.46	105.20
36	1	1766	G	N3-C4-C5	-6.03	125.59	128.60
36	1	1825	G	O5'-P-OP1	6.03	117.93	110.70
36	1	2616	C	OP1-P-O3'	-6.03	91.94	105.20
36	1	3062	G	C5-C6-O6	-6.03	124.98	128.60
37	3	86	U	N3-C4-O4	-6.03	115.18	119.40
54	M8	41	ASP	CB-CG-OD2	-6.03	112.87	118.30
80	6	432	G	N1-C2-N2	-6.03	110.78	116.20
80	6	1786	G	N3-C4-N9	-6.03	122.38	126.00
85	5	794	U	OP2-P-O3'	6.03	118.46	105.20
85	5	1561	G	N7-C8-N9	-6.03	110.09	113.10
85	5	1804	A	C6-C5-N7	-6.03	128.08	132.30
85	5	2181	C	N1-C2-O2	-6.03	115.28	118.90
85	5	2412	G	OP1-P-OP2	6.03	128.64	119.60
85	5	2595	A	C5-N7-C8	-6.03	100.89	103.90
85	5	2805	G	C8-N9-C4	6.03	108.81	106.40
38	8	2	A	N9-C4-C5	6.03	108.21	105.80
1	2	136	C	N3-C2-O2	-6.03	117.68	121.90
1	2	239	C	C6-N1-C2	6.03	122.71	120.30
1	2	825	C	OP1-P-OP2	6.03	128.64	119.60
1	2	1336	U	C4-C5-C6	6.03	123.32	119.70
36	1	7	C	N1-C2-O2	-6.03	115.28	118.90
36	1	1155	C	N1-C2-O2	-6.03	115.28	118.90
36	1	1947	G	C5-N7-C8	6.03	107.31	104.30
36	1	2310	U	C5-C6-N1	6.03	125.71	122.70
36	1	3142	A	C4-C5-N7	-6.03	107.69	110.70
38	4	51	G	OP1-P-OP2	6.03	128.64	119.60
80	6	541	A	N1-C2-N3	-6.03	126.29	129.30
80	6	808	U	OP1-P-OP2	-6.03	110.56	119.60
85	5	64	G	C4-C5-C6	6.03	122.42	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	200	C	C5-C6-N1	6.03	124.01	121.00
85	5	995	U	N3-C2-O2	-6.03	117.98	122.20
85	5	1546	A	N9-C4-C5	-6.03	103.39	105.80
85	5	1863	G	C5-N7-C8	6.03	107.31	104.30
85	5	1905	G	C5-C6-O6	-6.03	124.98	128.60
85	5	3266	G	N9-C4-C5	6.03	107.81	105.40
36	1	1131	G	OP2-P-O3'	6.02	118.45	105.20
36	1	2777	G	O4'-C1'-N9	6.02	113.02	108.20
38	4	36	G	N3-C4-N9	-6.02	122.39	126.00
42	L5	184	ASP	CB-CG-OD2	-6.02	112.88	118.30
80	6	1178	G	N1-C6-O6	-6.02	116.28	119.90
85	5	1313	G	C4-C5-C6	6.02	122.41	118.80
85	5	2561	A	N1-C6-N6	6.02	122.22	118.60
38	8	26	U	N3-C4-O4	-6.02	115.18	119.40
1	2	87	C	C2-N3-C4	6.02	122.91	119.90
1	2	137	U	N1-C2-N3	6.02	118.51	114.90
1	2	377	G	C5-N7-C8	6.02	107.31	104.30
1	2	413	U	C4-C5-C6	6.02	123.31	119.70
1	2	1004	C	C6-N1-C2	6.02	122.71	120.30
1	2	1755	C	N3-C2-O2	-6.02	117.68	121.90
36	1	18	G	N3-C2-N2	-6.02	115.68	119.90
36	1	24	G	C2-N3-C4	-6.02	108.89	111.90
36	1	281	G	N9-C4-C5	6.02	107.81	105.40
36	1	1412	G	C5-C6-N1	-6.02	108.49	111.50
36	1	2149	A	O5'-P-OP2	-6.02	100.28	105.70
36	1	2187	G	C5-C6-O6	6.02	132.21	128.60
80	6	393	C	C2-N3-C4	-6.02	116.89	119.90
80	6	1517	U	O5'-P-OP2	-6.02	100.28	105.70
85	5	220	G	N3-C4-C5	6.02	131.61	128.60
85	5	1395	G	N1-C6-O6	6.02	123.51	119.90
85	5	1428	A	OP1-P-O3'	-6.02	91.95	105.20
85	5	1498	A	N7-C8-N9	-6.02	110.79	113.80
85	5	1618	G	C5-C6-O6	-6.02	124.99	128.60
85	5	1684	U	C6-N1-C2	-6.02	117.39	121.00
85	5	1929	G	N9-C4-C5	-6.02	102.99	105.40
85	5	2693	C	N3-C4-C5	6.02	124.31	121.90
85	5	2877	G	N9-C4-C5	6.02	107.81	105.40
37	7	117	A	N9-C4-C5	6.02	108.21	105.80
52	m6	59	ARG	NE-CZ-NH1	6.02	123.31	120.30
1	2	681	U	C5-C4-O4	6.02	129.51	125.90
36	1	139	G	OP1-P-OP2	-6.02	110.57	119.60
36	1	255	A	O5'-P-OP2	-6.02	100.28	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	504	A	C2-N3-C4	-6.02	107.59	110.60
80	6	160	C	N3-C4-C5	6.02	124.31	121.90
80	6	1475	A	N1-C2-N3	6.02	132.31	129.30
85	5	968	G	N7-C8-N9	-6.02	110.09	113.10
85	5	1228	C	N1-C2-O2	-6.02	115.29	118.90
85	5	1435	A	C2-N3-C4	6.02	113.61	110.60
85	5	1755	C	OP1-P-OP2	-6.02	110.57	119.60
85	5	2939	G	OP2-P-O3'	6.02	118.45	105.20
48	m1	112	LEU	CA-CB-CG	6.02	129.15	115.30
1	2	11	A	C4-C5-C6	-6.02	113.99	117.00
1	2	1116	A	C5-N7-C8	6.02	106.91	103.90
36	1	141	C	C5-C6-N1	6.02	124.01	121.00
36	1	748	U	C4-C5-C6	-6.02	116.09	119.70
36	1	820	A	C6-C5-N7	6.02	136.51	132.30
36	1	963	G	OP2-P-O3'	6.02	118.44	105.20
36	1	1523	U	N3-C4-C5	-6.02	110.99	114.60
36	1	1605	A	OP1-P-OP2	6.02	128.63	119.60
36	1	1868	G	O5'-P-OP1	6.02	117.92	110.70
36	1	2249	G	N9-C1'-C2'	-6.02	105.38	112.00
36	1	2720	G	C6-C5-N7	-6.02	126.79	130.40
36	1	3119	U	C6-N1-C2	-6.02	117.39	121.00
36	1	3188	G	N3-C2-N2	-6.02	115.69	119.90
38	4	7	U	OP2-P-O3'	6.02	118.44	105.20
80	6	564	G	C5-C6-O6	6.02	132.21	128.60
80	6	1659	A	OP1-P-OP2	6.02	128.63	119.60
25	d3	13	ARG	NE-CZ-NH2	6.02	123.31	120.30
85	5	263	C	C4-C5-C6	-6.02	114.39	117.40
85	5	287	G	C6-N1-C2	-6.02	121.49	125.10
85	5	555	U	C4-C5-C6	6.02	123.31	119.70
85	5	1679	A	N9-C4-C5	6.02	108.21	105.80
85	5	2160	G	C8-N9-C4	6.02	108.81	106.40
85	5	2364	G	N9-C4-C5	6.02	107.81	105.40
85	5	2829	U	O5'-P-OP1	6.02	117.92	110.70
85	5	2846	U	OP2-P-O3'	6.02	118.44	105.20
85	5	3009	G	C4-C5-N7	6.02	113.21	110.80
85	5	3218	A	C5-C6-N1	-6.02	114.69	117.70
85	5	3314	A	N1-C2-N3	6.02	132.31	129.30
1	2	1121	A	N1-C2-N3	6.02	132.31	129.30
36	1	290	G	C5-C6-O6	-6.02	124.99	128.60
36	1	834	U	N3-C4-C5	-6.02	110.99	114.60
36	1	919	U	N3-C2-O2	-6.02	117.99	122.20
36	1	1350	A	N1-C6-N6	6.02	122.21	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1563	C	C2-N3-C4	-6.02	116.89	119.90
36	1	1598	G	C2-N3-C4	-6.02	108.89	111.90
36	1	2164	A	N1-C6-N6	-6.02	114.99	118.60
36	1	2508	U	O5'-P-OP1	6.02	117.92	110.70
36	1	2878	G	N1-C2-N3	6.02	127.51	123.90
36	1	3016	A	C8-N9-C4	6.02	108.21	105.80
80	6	429	G	C5-C6-N1	-6.02	108.49	111.50
21	c9	89	ARG	NE-CZ-NH1	-6.02	117.29	120.30
85	5	130	A	OP1-P-OP2	6.02	128.62	119.60
85	5	1264	G	C6-C5-N7	6.02	134.01	130.40
85	5	1413	G	C6-N1-C2	-6.02	121.49	125.10
85	5	1496	C	N3-C2-O2	-6.02	117.69	121.90
85	5	1793	C	O5'-P-OP2	6.02	117.92	110.70
85	5	1857	C	N1-C2-N3	6.02	123.41	119.20
85	5	2305	G	N3-C4-N9	6.02	129.61	126.00
85	5	3176	G	C5-C6-O6	6.02	132.21	128.60
37	7	68	C	OP2-P-O3'	6.02	118.44	105.20
1	2	71	A	C8-N9-C4	6.02	108.21	105.80
36	1	1357	G	C8-N9-C4	-6.02	103.99	106.40
36	1	1536	G	C8-N9-C4	-6.02	103.99	106.40
80	6	370	A	C5-N7-C8	6.02	106.91	103.90
80	6	1639	C	C4-C5-C6	-6.02	114.39	117.40
85	5	618	C	C4-C5-C6	6.02	120.41	117.40
85	5	1477	A	C6-C5-N7	-6.02	128.09	132.30
85	5	1528	G	N1-C2-N3	6.02	127.51	123.90
85	5	2358	A	C5-C6-N1	6.02	120.71	117.70
85	5	2554	A	N1-C2-N3	6.02	132.31	129.30
1	2	634	G	C5-N7-C8	-6.01	101.29	104.30
1	2	686	G	C5-C6-O6	6.01	132.21	128.60
1	2	1018	G	O4'-C1'-N9	6.01	113.01	108.20
36	1	172	G	N3-C2-N2	6.01	124.11	119.90
36	1	328	U	N3-C4-C5	-6.01	110.99	114.60
36	1	421	G	C2-N3-C4	6.01	114.91	111.90
36	1	560	G	C5-C6-N1	-6.01	108.49	111.50
36	1	628	A	C8-N9-C4	6.01	108.21	105.80
36	1	651	G	C6-C5-N7	6.01	134.01	130.40
36	1	2377	G	N1-C6-O6	-6.01	116.29	119.90
80	6	107	C	O5'-P-OP1	6.01	117.92	110.70
80	6	252	U	N3-C4-O4	6.01	123.61	119.40
80	6	1379	C	O5'-P-OP1	-6.01	100.29	105.70
85	5	144	A	C8-N9-C4	6.01	108.20	105.80
85	5	640	U	C6-N1-C2	-6.01	117.39	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1172	G	C4-N9-C1'	6.01	134.32	126.50
85	5	1643	A	C6-N1-C2	-6.01	114.99	118.60
85	5	2321	A	C5-N7-C8	-6.01	100.89	103.90
85	5	2326	A	O4'-C1'-N9	-6.01	103.39	108.20
85	5	2384	A	C2-N3-C4	-6.01	107.59	110.60
85	5	2432	A	C5-C6-N1	-6.01	114.69	117.70
85	5	2931	C	C6-N1-C2	-6.01	117.89	120.30
1	2	371	G	C5-C6-N1	-6.01	108.49	111.50
36	1	299	G	N7-C8-N9	6.01	116.11	113.10
80	6	798	C	OP1-P-OP2	-6.01	110.58	119.60
80	6	1634	C	N1-C2-N3	-6.01	114.99	119.20
85	5	208	C	N3-C4-C5	-6.01	119.50	121.90
85	5	650	C	OP2-P-O3'	6.01	118.43	105.20
85	5	1101	G	N1-C2-N2	-6.01	110.79	116.20
85	5	1150	A	C5-C6-N1	6.01	120.71	117.70
56	n0	131	LYS	CD-CE-NZ	6.01	125.53	111.70
1	2	291	G	C8-N9-C4	-6.01	104.00	106.40
1	2	386	G	O5'-P-OP2	-6.01	100.29	105.70
1	2	1751	G	C5-C6-O6	6.01	132.21	128.60
36	1	391	A	O5'-P-OP1	6.01	117.91	110.70
36	1	788	C	O5'-P-OP2	6.01	117.91	110.70
36	1	1343	A	N1-C6-N6	6.01	122.21	118.60
36	1	1660	C	C6-N1-C2	-6.01	117.90	120.30
36	1	2387	A	OP1-P-OP2	6.01	128.62	119.60
36	1	2627	C	N3-C4-N4	-6.01	113.79	118.00
36	1	3038	U	N1-C2-O2	-6.01	118.59	122.80
36	1	3084	C	C5-C4-N4	-6.01	115.99	120.20
36	1	3198	U	N1-C2-O2	6.01	127.01	122.80
80	6	481	A	C5-C6-N1	6.01	120.71	117.70
80	6	1056	U	N3-C4-C5	-6.01	110.99	114.60
80	6	1154	G	N1-C2-N2	-6.01	110.79	116.20
85	5	34	A	C5-N7-C8	6.01	106.91	103.90
85	5	810	A	OP2-P-O3'	6.01	118.42	105.20
85	5	908	G	OP2-P-O3'	6.01	118.42	105.20
85	5	1206	G	N1-C2-N2	-6.01	110.79	116.20
85	5	1325	U	N3-C4-O4	-6.01	115.19	119.40
85	5	1749	A	C4-C5-N7	6.01	113.71	110.70
85	5	2632	G	C5-C6-O6	-6.01	124.99	128.60
85	5	2967	A	C4-C5-N7	-6.01	107.69	110.70
46	19	103	ILE	CG1-CB-CG2	-6.01	98.18	111.40
1	2	465	G	C5-C6-N1	6.01	114.50	111.50
1	2	1357	C	C6-N1-C2	-6.01	117.90	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	109	A	N1-C6-N6	-6.01	114.99	118.60
36	1	354	U	OP1-P-O3'	6.01	118.42	105.20
36	1	1139	G	O5'-P-OP2	6.01	117.91	110.70
36	1	1148	G	N3-C4-C5	6.01	131.60	128.60
36	1	2580	A	C5-N7-C8	6.01	106.90	103.90
36	1	2908	G	C5-N7-C8	-6.01	101.30	104.30
37	3	88	G	C5-C6-O6	-6.01	124.99	128.60
38	4	24	G	O5'-P-OP2	-6.01	100.29	105.70
80	6	578	U	C2-N3-C4	-6.01	123.39	127.00
85	5	286	U	C2-N1-C1'	6.01	124.91	117.70
85	5	504	A	C8-N9-C4	-6.01	103.40	105.80
85	5	1020	G	N1-C2-N3	-6.01	120.30	123.90
85	5	1920	U	O5'-P-OP2	-6.01	100.29	105.70
85	5	2233	A	C4-C5-N7	-6.01	107.70	110.70
85	5	2340	U	C4-C5-C6	-6.01	116.09	119.70
85	5	2520	A	C5-C6-N1	-6.01	114.69	117.70
85	5	3085	G	OP1-P-O3'	6.01	118.42	105.20
38	8	106	C	N1-C2-N3	-6.01	114.99	119.20
1	2	436	A	N9-C4-C5	6.01	108.20	105.80
1	2	1034	G	C4-C5-N7	6.01	113.20	110.80
1	2	1268	U	N1-C2-O2	6.01	127.01	122.80
36	1	2875	U	O5'-P-OP2	-6.01	100.29	105.70
80	6	1111	G	C4-C5-N7	-6.01	108.40	110.80
85	5	343	U	O5'-P-OP2	6.01	117.91	110.70
85	5	935	U	N3-C4-O4	6.01	123.61	119.40
85	5	2258	U	C6-N1-C2	-6.01	117.39	121.00
85	5	2745	G	OP1-P-O3'	6.01	118.42	105.20
85	5	3083	G	N1-C2-N3	6.01	127.50	123.90
1	2	1467	G	C5-C6-O6	6.01	132.20	128.60
36	1	67	A	C6-N1-C2	-6.01	115.00	118.60
36	1	357	A	C6-C5-N7	-6.01	128.10	132.30
36	1	437	G	C6-N1-C2	6.01	128.70	125.10
36	1	600	G	C2-N3-C4	-6.01	108.90	111.90
36	1	685	G	OP1-P-O3'	-6.01	91.99	105.20
36	1	902	G	C4-C5-N7	6.01	113.20	110.80
36	1	1845	G	C4-C5-N7	6.01	113.20	110.80
36	1	1885	U	OP2-P-O3'	6.01	118.41	105.20
36	1	2798	C	N3-C4-C5	-6.01	119.50	121.90
36	1	2924	U	N1-C2-N3	-6.01	111.30	114.90
36	1	3008	A	C4-C5-N7	6.01	113.70	110.70
46	L9	173	ARG	NE-CZ-NH2	6.01	123.30	120.30
80	6	980	G	C6-N1-C2	-6.01	121.50	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1490	C	N1-C2-O2	-6.01	115.30	118.90
80	6	1605	G	N9-C4-C5	6.01	107.80	105.40
11	s9	58	ASP	CB-CG-OD1	-6.01	112.89	118.30
85	5	529	A	C5-C6-N1	-6.01	114.70	117.70
85	5	723	U	N3-C4-O4	-6.01	115.19	119.40
85	5	912	G	C5-C6-O6	-6.01	125.00	128.60
85	5	1370	G	C5-C6-O6	6.01	132.20	128.60
85	5	2208	A	O4'-C1'-N9	6.01	113.00	108.20
85	5	2359	C	OP1-P-O3'	6.01	118.41	105.20
85	5	2742	C	N1-C2-O2	6.01	122.50	118.90
37	7	111	U	N3-C2-O2	-6.01	118.00	122.20
48	m1	143	ARG	NE-CZ-NH2	6.01	123.30	120.30
36	1	35	A	O5'-P-OP2	-6.00	100.30	105.70
36	1	312	C	O5'-P-OP1	-6.00	100.30	105.70
36	1	1641	U	C2-N3-C4	-6.00	123.40	127.00
36	1	1742	U	C2-N3-C4	6.00	130.60	127.00
36	1	2378	C	C2-N3-C4	-6.00	116.90	119.90
36	1	2394	G	C5-C6-N1	6.00	114.50	111.50
80	6	113	U	C5-C4-O4	6.00	129.50	125.90
80	6	1017	U	N3-C4-C5	-6.00	111.00	114.60
85	5	1561	G	C8-N9-C4	6.00	108.80	106.40
85	5	2246	G	N9-C4-C5	6.00	107.80	105.40
85	5	2422	C	C5-C6-N1	-6.00	118.00	121.00
85	5	2932	U	N1-C2-N3	6.00	118.50	114.90
85	5	3075	G	C4-C5-C6	6.00	122.40	118.80
85	5	3260	G	N1-C6-O6	6.00	123.50	119.90
38	8	33	A	N3-C4-N9	6.00	132.20	127.40
1	2	390	G	C5-N7-C8	-6.00	101.30	104.30
1	2	914	C	C5-C4-N4	-6.00	116.00	120.20
36	1	267	G	OP1-P-OP2	-6.00	110.59	119.60
36	1	684	G	C8-N9-C4	6.00	108.80	106.40
36	1	949	C	N3-C2-O2	6.00	126.10	121.90
36	1	1737	U	N3-C2-O2	6.00	126.40	122.20
36	1	1848	G	C2-N3-C4	6.00	114.90	111.90
36	1	1869	C	O5'-P-OP2	-6.00	100.30	105.70
36	1	2688	U	N1-C2-N3	-6.00	111.30	114.90
36	1	3194	C	C4-C5-C6	6.00	120.40	117.40
36	1	3259	U	N3-C4-C5	-6.00	111.00	114.60
37	3	12	U	N3-C4-O4	6.00	123.60	119.40
38	4	20	U	OP2-P-O3'	6.00	118.41	105.20
80	6	335	U	C4-C5-C6	6.00	123.30	119.70
80	6	591	A	N1-C6-N6	-6.00	115.00	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	694	U	C5-C6-N1	6.00	125.70	122.70
80	6	704	C	C5-C6-N1	6.00	124.00	121.00
80	6	1146	G	N1-C2-N2	-6.00	110.80	116.20
85	5	37	U	C2-N1-C1'	6.00	124.90	117.70
85	5	300	G	C8-N9-C4	-6.00	104.00	106.40
85	5	438	A	N3-C4-C5	6.00	131.00	126.80
85	5	666	A	C4-C5-N7	-6.00	107.70	110.70
85	5	754	G	N1-C6-O6	-6.00	116.30	119.90
85	5	1439	U	N3-C4-C5	6.00	118.20	114.60
85	5	1708	C	N1-C2-O2	-6.00	115.30	118.90
85	5	2694	A	N1-C2-N3	-6.00	126.30	129.30
85	5	3060	C	OP1-P-OP2	-6.00	110.59	119.60
85	5	3181	C	N1-C2-N3	6.00	123.40	119.20
85	5	3297	U	N1-C2-O2	-6.00	118.60	122.80
85	5	3319	U	OP1-P-OP2	6.00	128.61	119.60
37	7	43	U	N3-C4-C5	-6.00	111.00	114.60
37	7	79	A	C5-C6-N6	-6.00	118.90	123.70
71	o5	9	LEU	CB-CG-CD1	-6.00	100.80	111.00
36	1	404	G	O5'-P-OP2	-6.00	100.30	105.70
36	1	936	A	OP1-P-OP2	6.00	128.60	119.60
36	1	3369	G	C2-N3-C4	-6.00	108.90	111.90
80	6	357	G	C4-C5-N7	-6.00	108.40	110.80
80	6	912	U	N3-C4-O4	6.00	123.60	119.40
80	6	1044	U	N3-C4-C5	6.00	118.20	114.60
80	6	1113	A	N1-C6-N6	-6.00	115.00	118.60
80	6	1263	G	C8-N9-C4	-6.00	104.00	106.40
85	5	231	G	N7-C8-N9	6.00	116.10	113.10
85	5	278	U	C2-N1-C1'	-6.00	110.50	117.70
85	5	376	G	C6-C5-N7	-6.00	126.80	130.40
85	5	975	C	N3-C4-N4	6.00	122.20	118.00
85	5	1824	U	C4-C5-C6	6.00	123.30	119.70
85	5	1881	A	C6-C5-N7	-6.00	128.10	132.30
85	5	2301	U	OP2-P-O3'	6.00	118.40	105.20
85	5	2841	G	N3-C4-N9	6.00	129.60	126.00
85	5	3145	C	O5'-P-OP1	-6.00	100.30	105.70
38	8	104	A	C2-N3-C4	6.00	113.60	110.60
46	19	166	ARG	NE-CZ-NH2	-6.00	117.30	120.30
1	2	525	A	N1-C6-N6	6.00	122.20	118.60
36	1	382	U	N3-C4-C5	6.00	118.20	114.60
36	1	963	G	O5'-P-OP2	-6.00	100.30	105.70
36	1	2337	C	OP1-P-O3'	6.00	118.40	105.20
36	1	2349	U	N3-C4-C5	6.00	118.20	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1450	U	C5-C4-O4	-6.00	122.30	125.90
80	6	1765	A	C4-C5-N7	-6.00	107.70	110.70
85	5	769	G	N9-C4-C5	-6.00	103.00	105.40
85	5	1440	G	N9-C4-C5	6.00	107.80	105.40
85	5	2190	U	C4-C5-C6	6.00	123.30	119.70
85	5	3079	U	N3-C2-O2	6.00	126.40	122.20
85	5	3104	U	C2-N1-C1'	-6.00	110.50	117.70
1	2	341	A	C6-C5-N7	-6.00	128.10	132.30
1	2	1113	G	N1-C2-N3	6.00	127.50	123.90
1	2	1120	A	C2-N3-C4	-6.00	107.60	110.60
1	2	1152	G	C6-N1-C2	-6.00	121.50	125.10
1	2	1481	G	OP1-P-O3'	6.00	118.40	105.20
36	1	620	U	O5'-P-OP1	-6.00	100.30	105.70
36	1	687	U	C4-C5-C6	6.00	123.30	119.70
36	1	1121	U	N3-C4-C5	6.00	118.20	114.60
36	1	1750	A	N1-C6-N6	6.00	122.20	118.60
36	1	1839	A	C6-C5-N7	-6.00	128.10	132.30
36	1	2768	U	C4-C5-C6	-6.00	116.10	119.70
80	6	1286	U	C2-N3-C4	-6.00	123.40	127.00
85	5	294	U	N3-C4-C5	6.00	118.20	114.60
85	5	329	U	C5-C6-N1	-6.00	119.70	122.70
85	5	375	A	N3-C4-C5	6.00	131.00	126.80
85	5	768	C	N3-C2-O2	6.00	126.10	121.90
85	5	964	G	OP2-P-O3'	6.00	118.40	105.20
85	5	1326	A	O5'-P-OP1	6.00	117.90	110.70
85	5	2804	A	OP1-P-OP2	-6.00	110.60	119.60
85	5	2930	A	N9-C4-C5	-6.00	103.40	105.80
85	5	3122	A	O5'-P-OP1	-6.00	100.30	105.70
85	5	3212	C	N3-C2-O2	6.00	126.10	121.90
1	2	209	U	N3-C4-O4	6.00	123.60	119.40
1	2	319	U	C2-N3-C4	6.00	130.60	127.00
1	2	354	C	N1-C2-N3	6.00	123.40	119.20
1	2	737	A	N1-C6-N6	-6.00	115.00	118.60
36	1	33	G	N1-C2-N3	6.00	127.50	123.90
36	1	1054	A	N9-C4-C5	6.00	108.20	105.80
36	1	1169	A	C6-C5-N7	6.00	136.50	132.30
36	1	1177	G	O5'-P-OP2	6.00	117.89	110.70
36	1	1327	C	O5'-P-OP2	6.00	117.89	110.70
36	1	1435	A	OP1-P-O3'	6.00	118.39	105.20
36	1	2313	A	C5-N7-C8	-6.00	100.90	103.90
36	1	2960	C	C2-N1-C1'	6.00	125.40	118.80
80	6	1375	A	N1-C6-N6	6.00	122.20	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1698	G	C5-N7-C8	6.00	107.30	104.30
85	5	498	A	N7-C8-N9	6.00	116.80	113.80
85	5	606	C	N1-C2-N3	6.00	123.40	119.20
85	5	1374	G	N3-C4-C5	6.00	131.60	128.60
85	5	1425	U	C5-C4-O4	6.00	129.50	125.90
85	5	1661	G	N1-C2-N2	-6.00	110.80	116.20
85	5	1893	A	O5'-P-OP1	6.00	117.90	110.70
85	5	2106	A	OP1-P-OP2	-6.00	110.61	119.60
85	5	2768	U	N3-C4-C5	6.00	118.20	114.60
85	5	3157	U	N3-C4-O4	-6.00	115.20	119.40
36	1	135	C	OP1-P-O3'	6.00	118.39	105.20
36	1	2166	A	OP2-P-O3'	6.00	118.39	105.20
36	1	2359	C	OP1-P-OP2	-6.00	110.61	119.60
36	1	2668	U	C2-N3-C4	-6.00	123.40	127.00
36	1	3033	A	N1-C6-N6	6.00	122.20	118.60
85	5	2939	G	N3-C4-C5	6.00	131.60	128.60
85	5	2987	A	N1-C6-N6	-6.00	115.00	118.60
38	8	7	U	C5-C6-N1	-6.00	119.70	122.70
1	2	389	G	C4-C5-N7	-5.99	108.40	110.80
1	2	768	U	C5-C4-O4	5.99	129.50	125.90
1	2	1294	U	N3-C4-C5	5.99	118.20	114.60
36	1	721	G	C8-N9-C4	-5.99	104.00	106.40
36	1	1391	C	C5-C4-N4	-5.99	116.00	120.20
36	1	1431	G	OP1-P-O3'	5.99	118.39	105.20
36	1	1906	G	C4-C5-C6	5.99	122.40	118.80
36	1	2434	U	C2-N3-C4	-5.99	123.40	127.00
36	1	2706	G	N7-C8-N9	5.99	116.10	113.10
37	3	28	C	N1-C2-N3	5.99	123.40	119.20
85	5	868	C	OP2-P-O3'	5.99	118.39	105.20
85	5	947	G	C4-C5-C6	5.99	122.40	118.80
85	5	947	G	N1-C6-O6	5.99	123.50	119.90
85	5	1328	C	C5-C6-N1	-5.99	118.00	121.00
85	5	2514	U	C6-N1-C2	-5.99	117.40	121.00
85	5	2594	C	N3-C4-C5	5.99	124.30	121.90
85	5	2692	A	C4-C5-C6	5.99	120.00	117.00
85	5	2973	G	N3-C4-N9	-5.99	122.40	126.00
38	8	28	C	N1-C2-O2	-5.99	115.30	118.90
1	2	591	A	C5-C6-N1	5.99	120.70	117.70
1	2	960	A	N9-C4-C5	-5.99	103.40	105.80
36	1	603	A	C5-C6-N1	-5.99	114.70	117.70
36	1	991	G	N3-C2-N2	5.99	124.09	119.90
36	1	3385	U	N3-C4-C5	5.99	118.19	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	122	U	O4'-C1'-N1	5.99	112.99	108.20
80	6	290	G	N3-C4-N9	-5.99	122.41	126.00
80	6	326	G	C5-C6-N1	-5.99	108.50	111.50
26	d4	20	ARG	NE-CZ-NH2	-5.99	117.30	120.30
85	5	1281	G	N3-C4-C5	5.99	131.60	128.60
85	5	1324	U	C5-C6-N1	-5.99	119.70	122.70
85	5	1868	G	N3-C4-C5	-5.99	125.60	128.60
85	5	2388	U	N3-C4-C5	-5.99	111.00	114.60
85	5	3059	G	OP2-P-O3'	5.99	118.38	105.20
1	2	903	U	N3-C2-O2	5.99	126.39	122.20
1	2	921	G	C6-N1-C2	-5.99	121.51	125.10
36	1	2116	G	N1-C2-N2	-5.99	110.81	116.20
80	6	409	C	C6-N1-C2	-5.99	117.90	120.30
80	6	781	U	N1-C2-O2	5.99	126.99	122.80
85	5	98	G	N3-C4-N9	5.99	129.59	126.00
85	5	761	A	OP2-P-O3'	5.99	118.38	105.20
85	5	959	C	C6-N1-C2	-5.99	117.90	120.30
85	5	1314	C	C6-N1-C1'	-5.99	113.61	120.80
85	5	1594	A	C4-C5-C6	5.99	120.00	117.00
85	5	2313	A	C4-C5-C6	5.99	120.00	117.00
85	5	2725	U	C6-N1-C1'	5.99	129.59	121.20
85	5	3354	U	O5'-P-OP2	5.99	117.89	110.70
37	7	1	G	N1-C2-N3	5.99	127.49	123.90
37	7	73	C	O4'-C1'-N1	5.99	112.99	108.20
38	8	138	A	N9-C4-C5	5.99	108.20	105.80
46	19	91	ARG	NE-CZ-NH1	-5.99	117.31	120.30
1	2	114	C	C6-N1-C1'	-5.99	113.61	120.80
1	2	257	A	N1-C6-N6	-5.99	115.01	118.60
1	2	630	A	N3-C4-C5	5.99	130.99	126.80
1	2	1357	C	N3-C2-O2	-5.99	117.71	121.90
1	2	1495	G	N9-C4-C5	5.99	107.80	105.40
36	1	75	G	C5-C6-O6	-5.99	125.01	128.60
36	1	153	U	OP1-P-O3'	5.99	118.37	105.20
36	1	782	U	N1-C2-N3	-5.99	111.31	114.90
36	1	1499	C	N3-C4-N4	5.99	122.19	118.00
36	1	1534	A	OP1-P-O3'	5.99	118.38	105.20
36	1	2234	G	N1-C2-N2	-5.99	110.81	116.20
36	1	2390	A	N7-C8-N9	-5.99	110.81	113.80
36	1	2582	C	N3-C4-C5	-5.99	119.50	121.90
36	1	2873	U	O4'-C1'-N1	5.99	112.99	108.20
36	1	3102	G	C5-C6-N1	-5.99	108.51	111.50
38	4	105	A	N1-C6-N6	5.99	122.19	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	364	G	C5-C6-O6	-5.99	125.01	128.60
80	6	547	U	C5-C6-N1	-5.99	119.71	122.70
80	6	1605	G	C8-N9-C4	-5.99	104.00	106.40
80	6	1679	G	C5-C6-N1	5.99	114.50	111.50
85	5	340	C	N3-C4-C5	5.99	124.30	121.90
85	5	692	A	N9-C4-C5	-5.99	103.41	105.80
85	5	1290	A	C5-N7-C8	-5.99	100.91	103.90
85	5	1415	U	N1-C2-N3	5.99	118.49	114.90
85	5	1732	U	N1-C2-O2	5.99	126.99	122.80
85	5	2229	A	C8-N9-C4	-5.99	103.41	105.80
85	5	2835	U	C5-C6-N1	5.99	125.69	122.70
85	5	2924	U	C5-C4-O4	5.99	129.49	125.90
85	5	3341	U	OP1-P-O3'	5.99	118.37	105.20
37	7	63	A	N1-C2-N3	5.99	132.29	129.30
36	1	1230	G	C2-N3-C4	-5.99	108.91	111.90
80	6	687	G	N3-C4-N9	-5.99	122.41	126.00
80	6	783	G	N3-C4-N9	5.99	129.59	126.00
80	6	1084	A	C6-N1-C2	-5.99	115.01	118.60
80	6	1478	G	C4-C5-C6	5.99	122.39	118.80
85	5	359	U	N3-C4-C5	-5.99	111.01	114.60
85	5	801	A	OP1-P-O3'	5.99	118.37	105.20
85	5	3031	G	N3-C2-N2	-5.99	115.71	119.90
85	5	3112	G	OP1-P-OP2	5.99	128.58	119.60
52	m6	194	LEU	CB-CG-CD2	-5.99	100.82	111.00
1	2	954	A	C4-C5-C6	5.99	119.99	117.00
1	2	1125	A	C5-N7-C8	-5.99	100.91	103.90
1	2	1330	U	N1-C2-O2	-5.99	118.61	122.80
1	2	1512	C	C2-N3-C4	5.99	122.89	119.90
1	2	1563	C	C5-C4-N4	-5.99	116.01	120.20
36	1	326	U	N3-C4-O4	5.99	123.59	119.40
36	1	498	A	C5-C6-N6	5.99	128.49	123.70
36	1	508	U	N1-C2-O2	-5.99	118.61	122.80
36	1	807	A	C6-N1-C2	-5.99	115.01	118.60
36	1	1604	G	C4-N9-C1'	5.99	134.28	126.50
36	1	1683	A	C4-C5-C6	5.99	119.99	117.00
36	1	2541	U	N3-C2-O2	-5.99	118.01	122.20
36	1	3121	U	OP1-P-O3'	5.99	118.37	105.20
36	1	3250	U	N1-C2-N3	-5.99	111.31	114.90
68	O2	81	ASP	CB-CG-OD1	-5.99	112.91	118.30
80	6	892	A	C2-N3-C4	-5.99	107.61	110.60
80	6	1056	U	C5-C4-O4	5.99	129.49	125.90
85	5	738	A	N1-C6-N6	5.99	122.19	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	794	U	O4'-C1'-N1	-5.99	103.41	108.20
85	5	1651	U	N3-C4-O4	5.99	123.59	119.40
85	5	1936	A	C4-C5-N7	5.99	113.69	110.70
85	5	2269	U	N1-C2-O2	-5.99	118.61	122.80
1	2	128	U	N1-C2-N3	5.98	118.49	114.90
36	1	584	G	C6-N1-C2	-5.98	121.51	125.10
36	1	923	C	N1-C2-N3	-5.98	115.01	119.20
36	1	1039	U	OP1-P-OP2	5.98	128.57	119.60
36	1	3262	U	O5'-P-OP2	-5.98	100.31	105.70
80	6	101	U	C5-C6-N1	5.98	125.69	122.70
80	6	299	A	C2-N3-C4	-5.98	107.61	110.60
80	6	493	U	N3-C2-O2	5.98	126.39	122.20
80	6	1130	G	C4-C5-N7	5.98	113.19	110.80
80	6	1428	G	N3-C4-C5	-5.98	125.61	128.60
85	5	385	A	N1-C2-N3	5.98	132.29	129.30
85	5	501	A	N9-C4-C5	5.98	108.19	105.80
85	5	2158	A	C8-N9-C4	-5.98	103.41	105.80
85	5	2415	C	C6-N1-C2	-5.98	117.91	120.30
85	5	3108	G	OP1-P-OP2	-5.98	110.62	119.60
1	2	717	A	C8-N9-C4	-5.98	103.41	105.80
1	2	1505	U	O5'-P-OP1	5.98	117.88	110.70
36	1	6	A	N1-C6-N6	-5.98	115.01	118.60
36	1	189	G	N3-C4-N9	-5.98	122.41	126.00
36	1	383	G	N7-C8-N9	-5.98	110.11	113.10
37	3	99	G	N1-C2-N3	5.98	127.49	123.90
80	6	64	U	C6-N1-C2	5.98	124.59	121.00
80	6	451	A	OP2-P-O3'	5.98	118.36	105.20
80	6	526	A	N1-C6-N6	5.98	122.19	118.60
80	6	876	G	C2-N3-C4	5.98	114.89	111.90
80	6	961	U	N3-C2-O2	-5.98	118.01	122.20
80	6	1640	C	N3-C2-O2	-5.98	117.71	121.90
80	6	1737	G	C8-N9-C4	-5.98	104.01	106.40
85	5	225	C	N3-C2-O2	-5.98	117.71	121.90
85	5	937	G	N3-C4-C5	-5.98	125.61	128.60
85	5	1604	G	OP1-P-OP2	-5.98	110.63	119.60
85	5	1639	C	N1-C2-O2	-5.98	115.31	118.90
85	5	1778	G	C4-C5-N7	5.98	113.19	110.80
85	5	1934	G	C8-N9-C1'	-5.98	119.22	127.00
85	5	2753	G	P-O3'-C3'	-5.98	112.52	119.70
85	5	2856	G	N1-C2-N3	5.98	127.49	123.90
85	5	3241	G	N3-C2-N2	5.98	124.09	119.90
62	n6	7	ASP	CB-CG-OD2	-5.98	112.92	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1437	G	C8-N9-C4	5.98	108.79	106.40
1	2	1452	A	N1-C6-N6	-5.98	115.01	118.60
1	2	1736	A	C2-N3-C4	-5.98	107.61	110.60
1	2	1771	G	C4-C5-N7	-5.98	108.41	110.80
36	1	414	U	N3-C2-O2	-5.98	118.01	122.20
36	1	584	G	C5-N7-C8	5.98	107.29	104.30
36	1	876	A	OP1-P-OP2	5.98	128.57	119.60
36	1	991	G	C4-C5-N7	-5.98	108.41	110.80
36	1	1548	C	O5'-P-OP1	5.98	117.88	110.70
36	1	2161	G	OP1-P-O3'	5.98	118.36	105.20
36	1	2297	U	N1-C2-O2	5.98	126.99	122.80
36	1	2326	A	C5-C6-N1	-5.98	114.71	117.70
36	1	2619	G	OP1-P-OP2	5.98	128.57	119.60
36	1	3258	U	N1-C2-O2	-5.98	118.61	122.80
36	1	3280	U	N3-C4-C5	5.98	118.19	114.60
37	3	42	A	C5-N7-C8	5.98	106.89	103.90
80	6	143	G	C5-C6-O6	-5.98	125.01	128.60
80	6	585	A	O5'-P-OP1	-5.98	100.32	105.70
80	6	1110	G	O5'-P-OP2	5.98	117.88	110.70
80	6	1530	C	N3-C2-O2	-5.98	117.71	121.90
85	5	16	A	N9-C4-C5	-5.98	103.41	105.80
85	5	221	A	C4-C5-C6	5.98	119.99	117.00
85	5	704	U	C2-N3-C4	5.98	130.59	127.00
85	5	989	A	C2-N3-C4	5.98	113.59	110.60
85	5	1321	G	C4-C5-C6	5.98	122.39	118.80
85	5	1575	A	N7-C8-N9	5.98	116.79	113.80
85	5	1624	G	C2-N3-C4	-5.98	108.91	111.90
85	5	2339	C	O4'-C1'-N1	-5.98	103.42	108.20
85	5	2715	A	C6-N1-C2	-5.98	115.01	118.60
85	5	2974	U	OP1-P-O3'	5.98	118.36	105.20
85	5	3390	G	N9-C4-C5	-5.98	103.01	105.40
1	2	358	U	O5'-P-OP1	-5.98	100.32	105.70
36	1	570	A	C6-N1-C2	-5.98	115.01	118.60
36	1	1583	A	N9-C4-C5	5.98	108.19	105.80
36	1	3048	A	C5-C6-N6	5.98	128.48	123.70
38	4	30	C	N1-C2-O2	-5.98	115.31	118.90
85	5	92	G	C2-N3-C4	5.98	114.89	111.90
85	5	2669	G	N7-C8-N9	-5.98	110.11	113.10
85	5	3356	G	C4-C5-N7	-5.98	108.41	110.80
38	8	127	U	C5-C4-O4	5.98	129.49	125.90
1	2	405	C	OP2-P-O3'	5.98	118.35	105.20
1	2	1107	A	C5-N7-C8	-5.98	100.91	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	343	U	O4'-C1'-N1	-5.98	103.42	108.20
36	1	839	C	C2-N1-C1'	-5.98	112.22	118.80
36	1	996	A	C5-C6-N1	5.98	120.69	117.70
36	1	1048	A	OP1-P-OP2	5.98	128.57	119.60
36	1	1784	G	C2-N3-C4	-5.98	108.91	111.90
52	M6	127	LEU	CB-CG-CD2	-5.98	100.84	111.00
64	N8	12	ARG	NE-CZ-NH1	5.98	123.29	120.30
80	6	127	G	N7-C8-N9	5.98	116.09	113.10
80	6	271	A	N1-C6-N6	-5.98	115.01	118.60
80	6	1636	C	C5-C6-N1	5.98	123.99	121.00
85	5	64	G	C5-C6-O6	-5.98	125.01	128.60
85	5	85	A	C8-N9-C4	5.98	108.19	105.80
85	5	95	A	C6-N1-C2	-5.98	115.01	118.60
85	5	295	A	C5-C6-N1	-5.98	114.71	117.70
85	5	972	A	N3-C4-C5	-5.98	122.62	126.80
85	5	1372	C	N1-C2-O2	-5.98	115.31	118.90
85	5	1507	G	C2-N3-C4	-5.98	108.91	111.90
85	5	1524	A	C5-C6-N6	-5.98	118.92	123.70
85	5	2155	G	C4-C5-C6	-5.98	115.21	118.80
38	8	16	G	C2-N3-C4	-5.98	108.91	111.90
38	8	118	C	N3-C4-N4	5.98	122.18	118.00
36	1	636	C	OP1-P-O3'	5.98	118.35	105.20
36	1	1117	G	N3-C4-C5	-5.98	125.61	128.60
36	1	1621	A	C5-N7-C8	5.98	106.89	103.90
36	1	2610	G	O5'-P-OP1	5.98	117.87	110.70
36	1	3338	C	O5'-P-OP2	-5.98	100.32	105.70
38	4	109	A	OP1-P-OP2	-5.98	110.64	119.60
80	6	371	G	N1-C6-O6	5.98	123.49	119.90
80	6	507	U	OP1-P-O3'	5.98	118.35	105.20
85	5	319	A	C5-N7-C8	5.98	106.89	103.90
85	5	978	G	C4-C5-C6	-5.98	115.22	118.80
85	5	3017	A	N1-C6-N6	-5.98	115.01	118.60
38	8	91	C	O5'-P-OP1	-5.98	100.32	105.70
38	8	108	C	OP1-P-O3'	5.98	118.35	105.20
1	2	291	G	C4-C5-N7	5.97	113.19	110.80
1	2	634	G	N7-C8-N9	5.97	116.09	113.10
1	2	1661	A	C5-N7-C8	-5.97	100.91	103.90
36	1	1507	G	O5'-P-OP2	-5.97	100.32	105.70
36	1	2394	G	C5-C6-O6	5.97	132.19	128.60
36	1	2935	U	OP2-P-O3'	5.97	118.34	105.20
36	1	3353	G	P-O3'-C3'	5.97	126.87	119.70
36	1	3376	A	C2-N3-C4	-5.97	107.61	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
68	O2	55	ILE	CG1-CB-CG2	-5.97	98.26	111.40
80	6	1403	C	C2-N3-C4	5.97	122.89	119.90
85	5	430	U	N3-C2-O2	5.97	126.38	122.20
85	5	2130	G	N9-C1'-C2'	-5.97	105.43	112.00
85	5	2598	G	C2-N3-C4	-5.97	108.91	111.90
85	5	3353	G	N3-C4-N9	-5.97	122.42	126.00
1	2	81	G	C5-N7-C8	-5.97	101.31	104.30
1	2	479	C	N3-C4-C5	5.97	124.29	121.90
1	2	573	C	C4-C5-C6	5.97	120.39	117.40
36	1	157	A	N1-C6-N6	5.97	122.18	118.60
36	1	317	A	C2-N3-C4	-5.97	107.61	110.60
36	1	813	G	C5-N7-C8	-5.97	101.31	104.30
36	1	869	G	O5'-P-OP2	-5.97	100.32	105.70
36	1	1397	C	N1-C2-N3	5.97	123.38	119.20
36	1	1863	G	N1-C6-O6	-5.97	116.32	119.90
36	1	2418	G	C4-C5-C6	-5.97	115.22	118.80
80	6	640	U	C2-N3-C4	-5.97	123.42	127.00
80	6	825	U	N1-C2-N3	-5.97	111.32	114.90
80	6	1653	C	N3-C2-O2	5.97	126.08	121.90
85	5	89	A	C5-N7-C8	-5.97	100.91	103.90
85	5	242	C	N3-C4-C5	-5.97	119.51	121.90
85	5	340	C	N1-C2-O2	-5.97	115.32	118.90
85	5	529	A	N7-C8-N9	5.97	116.79	113.80
85	5	613	G	C5-C6-N1	-5.97	108.51	111.50
85	5	640	U	C5-C6-N1	5.97	125.69	122.70
85	5	933	A	C4-C5-N7	-5.97	107.71	110.70
85	5	1358	C	N3-C4-C5	5.97	124.29	121.90
85	5	2204	C	N1-C2-N3	5.97	123.38	119.20
85	5	2387	A	C6-N1-C2	-5.97	115.02	118.60
85	5	2399	A	N3-C4-C5	5.97	130.98	126.80
85	5	2434	U	N1-C2-N3	5.97	118.48	114.90
85	5	2922	G	OP1-P-O3'	5.97	118.34	105.20
1	2	1725	U	N3-C4-O4	5.97	123.58	119.40
36	1	779	G	N3-C2-N2	-5.97	115.72	119.90
36	1	2775	U	C2-N3-C4	-5.97	123.42	127.00
36	1	3177	G	C5-C6-N1	5.97	114.49	111.50
57	N1	12	ARG	NE-CZ-NH2	5.97	123.29	120.30
85	5	1159	A	C8-N9-C4	-5.97	103.41	105.80
85	5	1360	C	N1-C2-O2	-5.97	115.32	118.90
85	5	2796	G	C4-C5-N7	-5.97	108.41	110.80
85	5	3210	A	O5'-P-OP1	-5.97	100.33	105.70
1	2	1342	C	N3-C2-O2	5.97	126.08	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1714	A	C2-N3-C4	-5.97	107.61	110.60
36	1	195	U	OP1-P-O3'	5.97	118.33	105.20
36	1	594	U	C6-N1-C2	5.97	124.58	121.00
36	1	595	G	N3-C4-C5	5.97	131.59	128.60
36	1	1346	G	OP2-P-O3'	5.97	118.33	105.20
36	1	1408	G	N3-C2-N2	-5.97	115.72	119.90
36	1	1600	U	C4-C5-C6	-5.97	116.12	119.70
36	1	1822	C	C2-N3-C4	-5.97	116.92	119.90
36	1	2139	A	C5-N7-C8	5.97	106.89	103.90
36	1	2305	G	C2-N3-C4	5.97	114.89	111.90
36	1	2567	C	C2-N3-C4	5.97	122.89	119.90
36	1	2648	G	N1-C2-N3	-5.97	120.32	123.90
36	1	2649	A	C5-C6-N1	5.97	120.68	117.70
37	3	87	G	C5-N7-C8	-5.97	101.31	104.30
38	4	149	A	C5-C6-N1	-5.97	114.72	117.70
80	6	513	U	C5-C4-O4	5.97	129.48	125.90
80	6	961	U	C6-N1-C2	-5.97	117.42	121.00
80	6	1051	G	N3-C4-C5	5.97	131.59	128.60
85	5	580	C	C5-C6-N1	5.97	123.98	121.00
85	5	743	C	N3-C4-N4	5.97	122.18	118.00
85	5	1397	C	N3-C4-N4	5.97	122.18	118.00
85	5	1409	G	C2-N3-C4	-5.97	108.92	111.90
85	5	1595	U	N3-C2-O2	5.97	126.38	122.20
85	5	1900	A	C4-C5-N7	5.97	113.69	110.70
85	5	2922	G	C4-C5-N7	5.97	113.19	110.80
1	2	649	U	C5-C6-N1	-5.97	119.72	122.70
36	1	64	G	OP2-P-O3'	5.97	118.33	105.20
36	1	222	A	O5'-P-OP1	5.97	117.86	110.70
36	1	1399	A	N3-C4-N9	-5.97	122.63	127.40
36	1	2238	G	C5-N7-C8	-5.97	101.32	104.30
36	1	2525	G	C2-N3-C4	-5.97	108.92	111.90
36	1	2913	C	O5'-P-OP1	-5.97	100.33	105.70
80	6	234	G	N3-C4-C5	-5.97	125.62	128.60
80	6	968	U	N3-C4-O4	-5.97	115.22	119.40
80	6	1161	C	N3-C4-N4	-5.97	113.82	118.00
80	6	1486	G	C4-C5-N7	5.97	113.19	110.80
85	5	425	G	C4-C5-N7	5.97	113.19	110.80
85	5	740	G	C4-C5-N7	5.97	113.19	110.80
85	5	1249	G	C5-C6-N1	-5.97	108.52	111.50
85	5	1395	G	C6-C5-N7	-5.97	126.82	130.40
1	2	1062	U	C5-C4-O4	-5.97	122.32	125.90
1	2	1113	G	N7-C8-N9	5.97	116.08	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1132	G	C6-N1-C2	-5.97	121.52	125.10
36	1	1009	A	C4-C5-N7	-5.97	107.72	110.70
36	1	1050	U	C5-C4-O4	5.97	129.48	125.90
36	1	1368	U	C2-N1-C1'	5.97	124.86	117.70
36	1	2299	A	C4-C5-N7	-5.97	107.72	110.70
36	1	2874	G	N3-C4-C5	5.97	131.58	128.60
36	1	3362	A	N9-C4-C5	-5.97	103.41	105.80
37	3	1	G	N1-C2-N3	5.97	127.48	123.90
37	3	41	G	C2-N3-C4	-5.97	108.92	111.90
38	4	56	G	N3-C4-C5	5.97	131.58	128.60
38	4	122	U	C2-N3-C4	-5.97	123.42	127.00
80	6	284	G	C2-N3-C4	-5.97	108.92	111.90
80	6	592	A	N1-C6-N6	-5.97	115.02	118.60
80	6	1047	G	OP1-P-O3'	5.97	118.33	105.20
80	6	1783	C	C6-N1-C1'	-5.97	113.64	120.80
85	5	23	A	C5-C6-N6	-5.97	118.93	123.70
85	5	253	A	C5-C6-N1	-5.97	114.72	117.70
85	5	392	G	C4-C5-N7	5.97	113.19	110.80
85	5	772	U	OP1-P-OP2	-5.97	110.65	119.60
85	5	1079	A	N1-C2-N3	5.97	132.28	129.30
85	5	1550	C	O5'-P-OP2	5.97	117.86	110.70
85	5	1847	A	P-O3'-C3'	5.97	126.86	119.70
85	5	2373	A	N7-C8-N9	5.97	116.78	113.80
85	5	2851	A	C6-N1-C2	-5.97	115.02	118.60
85	5	3096	C	N3-C4-N4	-5.97	113.82	118.00
85	5	3168	A	C6-N1-C2	5.97	122.18	118.60
85	5	3376	A	C4-C5-C6	5.97	119.98	117.00
37	7	114	U	OP1-P-OP2	5.97	128.55	119.60
1	2	770	G	C4-C5-N7	-5.96	108.41	110.80
1	2	1642	A	O5'-P-OP2	5.96	117.86	110.70
36	1	24	G	N1-C2-N3	5.96	127.48	123.90
36	1	412	G	N3-C4-N9	-5.96	122.42	126.00
36	1	695	C	N3-C4-N4	5.96	122.17	118.00
36	1	1769	G	N9-C4-C5	-5.96	103.02	105.40
36	1	2174	G	C4-N9-C1'	5.96	134.25	126.50
36	1	3021	A	C6-C5-N7	5.96	136.48	132.30
37	3	67	G	N3-C4-C5	5.96	131.58	128.60
38	4	7	U	N3-C2-O2	5.96	126.38	122.20
38	4	44	A	C6-C5-N7	-5.96	128.12	132.30
80	6	377	G	C6-C5-N7	-5.96	126.82	130.40
80	6	527	A	C2-N3-C4	-5.96	107.62	110.60
85	5	81	C	O5'-P-OP2	5.96	117.86	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	735	A	C6-N1-C2	5.96	122.18	118.60
85	5	1245	A	N1-C2-N3	5.96	132.28	129.30
85	5	1946	A	C4-C5-C6	5.96	119.98	117.00
85	5	2170	U	N3-C2-O2	5.96	126.38	122.20
85	5	3305	A	N1-C6-N6	-5.96	115.02	118.60
85	5	3338	C	N3-C4-C5	5.96	124.29	121.90
85	5	3363	U	OP1-P-O3'	5.96	118.32	105.20
37	7	9	C	N3-C2-O2	-5.96	117.72	121.90
1	2	814	U	N3-C4-C5	-5.96	111.02	114.60
36	1	71	A	N3-C4-C5	-5.96	122.63	126.80
36	1	758	C	C5-C4-N4	-5.96	116.03	120.20
36	1	962	A	C6-C5-N7	-5.96	128.13	132.30
36	1	1603	A	C6-C5-N7	5.96	136.47	132.30
36	1	2783	U	N1-C2-N3	-5.96	111.32	114.90
37	3	69	C	N1-C2-N3	5.96	123.37	119.20
80	6	1204	A	N9-C4-C5	5.96	108.19	105.80
85	5	2239	G	C4-C5-C6	-5.96	115.22	118.80
38	8	53	A	C8-N9-C4	-5.96	103.42	105.80
1	2	617	U	C2-N1-C1'	5.96	124.85	117.70
1	2	635	A	C6-C5-N7	-5.96	128.13	132.30
1	2	753	A	C5-N7-C8	5.96	106.88	103.90
1	2	1726	U	C6-N1-C2	-5.96	117.42	121.00
36	1	406	G	C5-C6-O6	5.96	132.18	128.60
36	1	732	C	C5-C4-N4	5.96	124.37	120.20
36	1	3230	G	C5-C6-N1	5.96	114.48	111.50
36	1	3276	G	C4-C5-C6	-5.96	115.22	118.80
80	6	1423	U	N1-C2-N3	5.96	118.48	114.90
85	5	795	G	N7-C8-N9	5.96	116.08	113.10
85	5	2140	U	C5-C4-O4	5.96	129.48	125.90
85	5	2247	G	C2-N3-C4	-5.96	108.92	111.90
85	5	3150	A	OP2-P-O3'	5.96	118.31	105.20
71	o5	31	LEU	CB-CG-CD1	-5.96	100.86	111.00
1	2	301	A	OP2-P-O3'	5.96	118.31	105.20
1	2	416	A	N3-C4-C5	5.96	130.97	126.80
36	1	290	G	N3-C4-C5	-5.96	125.62	128.60
36	1	678	G	C8-N9-C4	-5.96	104.02	106.40
36	1	746	A	O5'-P-OP1	5.96	117.85	110.70
36	1	1516	C	N3-C4-C5	-5.96	119.52	121.90
36	1	2904	U	N1-C2-O2	5.96	126.97	122.80
80	6	1121	C	N3-C4-C5	-5.96	119.52	121.90
85	5	600	G	C5-C6-N1	-5.96	108.52	111.50
85	5	1268	G	C5-C6-N1	-5.96	108.52	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1742	U	C4-C5-C6	-5.96	116.12	119.70
1	2	272	U	N1-C2-N3	5.96	118.48	114.90
36	1	604	G	N9-C4-C5	5.96	107.78	105.40
36	1	1180	A	C5-N7-C8	5.96	106.88	103.90
36	1	1525	G	N3-C4-C5	-5.96	125.62	128.60
36	1	2115	G	C6-N1-C2	-5.96	121.53	125.10
36	1	2947	G	N3-C2-N2	-5.96	115.73	119.90
44	L7	56	GLU	C-N-CA	-5.96	106.80	121.70
80	6	694	U	C2-N3-C4	5.96	130.57	127.00
80	6	736	C	N1-C2-O2	5.96	122.47	118.90
85	5	831	G	C8-N9-C4	5.96	108.78	106.40
85	5	1145	G	C6-N1-C2	-5.96	121.52	125.10
85	5	2523	A	C6-N1-C2	-5.96	115.03	118.60
85	5	2524	A	C4-C5-N7	5.96	113.68	110.70
85	5	3350	C	O5'-P-OP2	-5.96	100.34	105.70
40	l3	100	ARG	NE-CZ-NH2	-5.96	117.32	120.30
47	m0	82	ARG	NE-CZ-NH1	5.96	123.28	120.30
54	m8	151	ARG	NE-CZ-NH2	5.96	123.28	120.30
1	2	523	G	C5-C6-N1	-5.96	108.52	111.50
36	1	657	A	N3-C4-C5	5.96	130.97	126.80
36	1	1105	A	N1-C6-N6	5.96	122.17	118.60
36	1	2122	G	N1-C6-O6	-5.96	116.33	119.90
36	1	2644	C	N3-C4-N4	-5.96	113.83	118.00
36	1	3320	A	C6-N1-C2	-5.96	115.03	118.60
36	1	3325	G	C2-N3-C4	5.96	114.88	111.90
55	M9	42	ARG	NE-CZ-NH1	5.96	123.28	120.30
80	6	248	U	C2-N3-C4	-5.96	123.43	127.00
80	6	1111	G	C8-N9-C4	5.96	108.78	106.40
80	6	1739	C	OP2-P-O3'	5.96	118.31	105.20
85	5	512	U	C5-C4-O4	5.96	129.47	125.90
85	5	971	G	N3-C4-N9	5.96	129.57	126.00
85	5	1800	A	N9-C4-C5	5.96	108.18	105.80
85	5	2658	G	C2-N3-C4	-5.96	108.92	111.90
85	5	2814	G	C5-N7-C8	5.96	107.28	104.30
42	l5	85	ARG	NE-CZ-NH2	-5.96	117.32	120.30
1	2	53	G	N1-C2-N2	-5.96	110.84	116.20
1	2	753	A	OP1-P-OP2	5.96	128.53	119.60
1	2	1185	A	C6-N1-C2	-5.96	115.03	118.60
35	SM	74	LYS	CD-CE-NZ	5.96	125.40	111.70
36	1	1380	G	OP1-P-OP2	5.96	128.53	119.60
36	1	1833	G	N3-C4-C5	-5.96	125.62	128.60
36	1	2239	G	C2-N3-C4	5.96	114.88	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	3	118	A	C8-N9-C4	5.96	108.18	105.80
80	6	1014	G	N3-C4-N9	-5.96	122.43	126.00
85	5	1295	G	C4-C5-C6	5.96	122.37	118.80
85	5	1481	A	N1-C6-N6	-5.96	115.03	118.60
85	5	2207	A	N1-C6-N6	5.96	122.17	118.60
85	5	2228	A	OP1-P-O3'	5.96	118.30	105.20
85	5	2512	C	C5-C6-N1	5.96	123.98	121.00
1	2	93	A	OP1-P-OP2	5.95	128.53	119.60
1	2	1041	U	N3-C2-O2	-5.95	118.03	122.20
36	1	768	C	N3-C4-C5	5.95	124.28	121.90
36	1	1174	G	OP1-P-OP2	-5.95	110.67	119.60
36	1	1294	A	N1-C2-N3	5.95	132.28	129.30
36	1	1731	A	C2-N3-C4	-5.95	107.62	110.60
36	1	1931	U	C2-N1-C1'	-5.95	110.56	117.70
36	1	2120	A	C4-C5-C6	5.95	119.98	117.00
36	1	3308	C	C5-C6-N1	5.95	123.98	121.00
36	1	3323	A	C4-C5-C6	5.95	119.98	117.00
37	3	100	C	C6-N1-C2	-5.95	117.92	120.30
38	4	78	G	C5-N7-C8	5.95	107.28	104.30
80	6	481	A	N1-C2-N3	-5.95	126.32	129.30
80	6	1697	G	C4-N9-C1'	5.95	134.24	126.50
80	6	1741	U	OP1-P-OP2	-5.95	110.67	119.60
85	5	431	U	N3-C2-O2	5.95	126.37	122.20
85	5	1090	G	O5'-P-OP2	5.95	117.84	110.70
85	5	1354	G	C8-N9-C4	-5.95	104.02	106.40
85	5	1405	U	C2-N3-C4	-5.95	123.43	127.00
85	5	1485	G	C4-C5-N7	5.95	113.18	110.80
85	5	1532	C	N1-C2-O2	-5.95	115.33	118.90
85	5	1753	G	N9-C1'-C2'	-5.95	105.45	112.00
85	5	2099	A	C5-C6-N1	5.95	120.68	117.70
85	5	2230	C	N3-C4-N4	5.95	122.17	118.00
85	5	2418	G	C5-C6-O6	-5.95	125.03	128.60
85	5	2610	G	C2-N3-C4	-5.95	108.92	111.90
85	5	2893	C	C2-N1-C1'	-5.95	112.25	118.80
85	5	3120	C	OP1-P-OP2	5.95	128.53	119.60
85	5	3235	C	O4'-C1'-N1	5.95	112.96	108.20
37	7	35	C	OP1-P-OP2	-5.95	110.67	119.60
38	8	120	C	N3-C4-C5	-5.95	119.52	121.90
1	2	416	A	C6-N1-C2	5.95	122.17	118.60
36	1	130	A	C8-N9-C4	5.95	108.18	105.80
36	1	386	A	N7-C8-N9	5.95	116.78	113.80
69	O3	89	LEU	CB-CG-CD2	-5.95	100.88	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	971	A	O5'-P-OP2	5.95	117.84	110.70
80	6	1294	G	C5-C6-N1	-5.95	108.52	111.50
80	6	1340	U	C2-N1-C1'	5.95	124.84	117.70
85	5	185	C	N3-C4-C5	-5.95	119.52	121.90
85	5	276	U	N3-C4-O4	5.95	123.57	119.40
85	5	802	C	C5-C6-N1	5.95	123.98	121.00
85	5	1356	U	C2-N1-C1'	-5.95	110.56	117.70
85	5	2135	U	N1-C2-O2	-5.95	118.63	122.80
85	5	3232	G	C4-C5-C6	5.95	122.37	118.80
37	7	72	A	O4'-C1'-N9	-5.95	103.44	108.20
1	2	598	U	N1-C2-O2	-5.95	118.64	122.80
1	2	612	U	C6-N1-C2	5.95	124.57	121.00
1	2	1498	A	N1-C2-N3	-5.95	126.32	129.30
36	1	354	U	O5'-P-OP1	-5.95	100.34	105.70
36	1	624	G	N3-C4-C5	-5.95	125.62	128.60
36	1	828	A	N3-C4-N9	-5.95	122.64	127.40
36	1	866	A	C8-N9-C4	5.95	108.18	105.80
36	1	1198	C	N3-C2-O2	-5.95	117.73	121.90
36	1	1505	C	N3-C4-N4	-5.95	113.83	118.00
36	1	1559	A	C5-C6-N1	-5.95	114.72	117.70
36	1	2140	U	N1-C2-O2	-5.95	118.64	122.80
36	1	2606	G	C8-N9-C1'	-5.95	119.27	127.00
36	1	2765	C	N3-C2-O2	-5.95	117.73	121.90
36	1	3228	C	C2-N3-C4	-5.95	116.92	119.90
38	4	4	C	O5'-P-OP1	5.95	117.84	110.70
80	6	320	U	C5-C6-N1	-5.95	119.72	122.70
80	6	923	A	N3-C4-N9	-5.95	122.64	127.40
80	6	1550	A	C5-C6-N6	-5.95	118.94	123.70
80	6	1616	G	N7-C8-N9	5.95	116.08	113.10
85	5	892	U	C5-C6-N1	-5.95	119.72	122.70
85	5	1389	G	N9-C4-C5	-5.95	103.02	105.40
85	5	1508	C	OP1-P-OP2	5.95	128.53	119.60
85	5	1634	G	C5-C6-O6	-5.95	125.03	128.60
85	5	1909	A	C6-C5-N7	-5.95	128.13	132.30
85	5	2201	G	N3-C4-N9	5.95	129.57	126.00
85	5	2296	A	C5-C6-N6	5.95	128.46	123.70
85	5	2690	G	OP1-P-OP2	-5.95	110.67	119.60
85	5	3051	U	N3-C4-O4	-5.95	115.23	119.40
85	5	3118	C	C5-C6-N1	-5.95	118.03	121.00
48	m1	170	ASP	CB-CG-OD2	-5.95	112.94	118.30
1	2	100	A	O5'-P-OP1	5.95	117.84	110.70
1	2	1557	G	O5'-P-OP1	-5.95	100.35	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	173	G	N9-C4-C5	5.95	107.78	105.40
36	1	364	G	O4'-C1'-N9	-5.95	103.44	108.20
36	1	928	C	C5-C4-N4	-5.95	116.04	120.20
36	1	1369	A	N9-C4-C5	-5.95	103.42	105.80
36	1	1782	U	C4-C5-C6	-5.95	116.13	119.70
36	1	2657	A	N9-C4-C5	5.95	108.18	105.80
36	1	2808	A	N7-C8-N9	5.95	116.77	113.80
36	1	2852	C	N1-C2-O2	5.95	122.47	118.90
36	1	3145	C	OP2-P-O3'	5.95	118.29	105.20
36	1	3375	A	N7-C8-N9	5.95	116.77	113.80
70	O4	51	LEU	CA-CB-CG	5.95	128.98	115.30
80	6	173	A	C4-C5-N7	5.95	113.67	110.70
80	6	190	C	C4-C5-C6	-5.95	114.43	117.40
80	6	595	G	N3-C4-C5	5.95	131.57	128.60
80	6	1176	G	C6-N1-C2	-5.95	121.53	125.10
80	6	1261	G	N9-C4-C5	-5.95	103.02	105.40
80	6	1670	G	C6-N1-C2	-5.95	121.53	125.10
80	6	1754	A	OP1-P-O3'	5.95	118.29	105.20
85	5	70	A	C5-N7-C8	-5.95	100.93	103.90
85	5	217	U	O5'-P-OP2	-5.95	100.35	105.70
85	5	1136	A	C5-N7-C8	-5.95	100.93	103.90
85	5	1290	A	N3-C4-C5	5.95	130.96	126.80
85	5	1305	U	N3-C4-O4	5.95	123.56	119.40
85	5	1308	A	OP1-P-OP2	-5.95	110.68	119.60
85	5	1480	G	C6-C5-N7	-5.95	126.83	130.40
85	5	2265	C	C6-N1-C2	-5.95	117.92	120.30
85	5	2275	A	N1-C2-N3	-5.95	126.33	129.30
85	5	2734	A	C4-C5-C6	5.95	119.97	117.00
85	5	3105	U	C2-N1-C1'	-5.95	110.56	117.70
1	2	365	G	C8-N9-C4	-5.95	104.02	106.40
36	1	1066	G	C5-C6-N1	-5.95	108.53	111.50
36	1	1180	A	C4-C5-N7	-5.95	107.73	110.70
36	1	1583	A	C5-C6-N1	-5.95	114.73	117.70
85	5	989	A	C6-N1-C2	-5.95	115.03	118.60
85	5	2659	G	O5'-P-OP2	5.95	117.84	110.70
85	5	2944	U	O5'-P-OP2	5.95	117.84	110.70
1	2	808	U	C2-N3-C4	5.95	130.57	127.00
36	1	220	G	OP1-P-OP2	5.95	128.52	119.60
36	1	914	A	N3-C4-C5	-5.95	122.64	126.80
36	1	1035	G	C2-N3-C4	5.95	114.87	111.90
36	1	1477	A	N7-C8-N9	5.95	116.77	113.80
36	1	2185	G	N3-C4-N9	-5.95	122.43	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2444	C	C6-N1-C1'	-5.95	113.67	120.80
37	3	105	C	N3-C4-N4	5.95	122.16	118.00
38	4	56	G	C5-N7-C8	5.95	107.27	104.30
80	6	268	C	C5-C6-N1	-5.95	118.03	121.00
80	6	270	C	C5-C6-N1	-5.95	118.03	121.00
80	6	340	U	C2-N1-C1'	-5.95	110.56	117.70
80	6	1747	G	N3-C4-C5	5.95	131.57	128.60
80	6	1753	A	C6-N1-C2	-5.95	115.03	118.60
85	5	517	G	N3-C4-C5	-5.95	125.63	128.60
85	5	1268	G	C8-N9-C4	-5.95	104.02	106.40
85	5	1634	G	N3-C2-N2	-5.95	115.74	119.90
37	7	91	G	C5-N7-C8	5.95	107.27	104.30
1	2	57	G	OP1-P-OP2	5.94	128.52	119.60
1	2	216	U	O5'-P-OP2	-5.94	100.35	105.70
1	2	1561	U	OP1-P-O3'	5.94	118.28	105.20
36	1	739	G	C5-C6-N1	5.94	114.47	111.50
36	1	1929	G	C5-C6-N1	-5.94	108.53	111.50
36	1	3191	G	C4-C5-C6	5.94	122.37	118.80
36	1	3299	A	C6-N1-C2	5.94	122.17	118.60
36	1	3345	G	C2-N3-C4	5.94	114.87	111.90
80	6	284	G	N3-C4-N9	-5.94	122.43	126.00
80	6	466	U	C2-N3-C4	-5.94	123.43	127.00
80	6	1564	U	C6-N1-C2	5.94	124.57	121.00
85	5	113	C	N3-C4-N4	5.94	122.16	118.00
85	5	117	U	N1-C2-O2	5.94	126.96	122.80
85	5	1039	U	C4-C5-C6	-5.94	116.13	119.70
85	5	1489	A	C4-C5-N7	5.94	113.67	110.70
85	5	1603	A	C4-C5-N7	-5.94	107.73	110.70
85	5	1661	G	O4'-C1'-N9	5.94	112.95	108.20
85	5	2205	U	N1-C2-O2	5.94	126.96	122.80
85	5	2814	G	OP1-P-O3'	5.94	118.28	105.20
85	5	3018	C	N3-C2-O2	-5.94	117.74	121.90
85	5	3085	G	N9-C4-C5	5.94	107.78	105.40
1	2	797	A	C4-C5-N7	5.94	113.67	110.70
36	1	1772	U	C5-C4-O4	5.94	129.47	125.90
36	1	2200	U	C4-C5-C6	5.94	123.27	119.70
36	1	2771	U	N3-C4-O4	5.94	123.56	119.40
36	1	2865	U	N3-C2-O2	5.94	126.36	122.20
36	1	3220	G	OP1-P-OP2	-5.94	110.69	119.60
80	6	81	G	OP2-P-O3'	-5.94	92.12	105.20
80	6	266	A	N1-C6-N6	-5.94	115.03	118.60
80	6	574	G	N1-C2-N3	5.94	127.47	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	942	G	N1-C6-O6	5.94	123.47	119.90
80	6	1401	A	C2-N3-C4	5.94	113.57	110.60
85	5	118	U	N3-C4-C5	-5.94	111.03	114.60
85	5	306	A	C2-N3-C4	-5.94	107.63	110.60
85	5	1130	A	C5-N7-C8	5.94	106.87	103.90
85	5	1657	C	C5-C4-N4	-5.94	116.04	120.20
85	5	1887	A	N7-C8-N9	5.94	116.77	113.80
85	5	2335	G	N7-C8-N9	5.94	116.07	113.10
85	5	3130	A	N3-C4-C5	-5.94	122.64	126.80
85	5	3294	A	C4-C5-N7	-5.94	107.73	110.70
1	2	438	A	C5-N7-C8	-5.94	100.93	103.90
1	2	685	G	C5-N7-C8	-5.94	101.33	104.30
1	2	751	C	C4-C5-C6	-5.94	114.43	117.40
1	2	1481	G	O5'-P-OP2	-5.94	100.35	105.70
1	2	1487	G	N7-C8-N9	5.94	116.07	113.10
1	2	1525	G	N1-C2-N2	-5.94	110.85	116.20
1	2	1715	A	C4-C5-C6	5.94	119.97	117.00
36	1	297	G	C4-C5-N7	5.94	113.18	110.80
36	1	345	G	C4-N9-C1'	5.94	134.22	126.50
36	1	747	A	N3-C4-C5	5.94	130.96	126.80
36	1	918	C	O5'-P-OP1	5.94	117.83	110.70
36	1	1045	C	N1-C2-N3	-5.94	115.04	119.20
36	1	1140	G	N3-C2-N2	5.94	124.06	119.90
36	1	1180	A	O5'-P-OP1	-5.94	100.35	105.70
36	1	1305	U	N3-C4-O4	-5.94	115.24	119.40
36	1	1637	A	C6-C5-N7	5.94	136.46	132.30
36	1	1785	U	N3-C2-O2	5.94	126.36	122.20
36	1	2933	A	C4-C5-C6	-5.94	114.03	117.00
36	1	3388	C	O5'-P-OP1	5.94	117.83	110.70
80	6	472	U	C5-C4-O4	5.94	129.46	125.90
80	6	1148	C	C2-N3-C4	-5.94	116.93	119.90
80	6	1460	A	N7-C8-N9	-5.94	110.83	113.80
85	5	815	G	C4-C5-N7	-5.94	108.42	110.80
85	5	2340	U	N1-C2-N3	5.94	118.47	114.90
85	5	2526	C	C6-N1-C2	5.94	122.68	120.30
85	5	2762	A	C4-C5-C6	5.94	119.97	117.00
85	5	3147	G	O5'-P-OP2	-5.94	100.35	105.70
37	7	101	G	C2-N3-C4	-5.94	108.93	111.90
38	8	12	A	P-O3'-C3'	-5.94	112.57	119.70
1	2	1779	C	N3-C4-N4	5.94	122.16	118.00
36	1	519	A	C2-N3-C4	-5.94	107.63	110.60
36	1	831	G	C5-N7-C8	5.94	107.27	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1365	G	O5'-P-OP1	-5.94	100.36	105.70
36	1	2700	G	C6-C5-N7	-5.94	126.84	130.40
36	1	2725	U	N3-C4-C5	-5.94	111.04	114.60
36	1	2759	U	OP1-P-OP2	-5.94	110.69	119.60
76	Q0	96	CYS	CA-CB-SG	5.94	124.69	114.00
80	6	1120	U	N1-C2-O2	-5.94	118.64	122.80
80	6	1586	A	C5-C6-N1	-5.94	114.73	117.70
85	5	1108	U	O5'-P-OP2	-5.94	100.36	105.70
85	5	1572	U	C2-N3-C4	5.94	130.56	127.00
85	5	2538	U	C6-N1-C2	-5.94	117.44	121.00
1	2	988	A	C5-C6-N6	5.94	128.45	123.70
36	1	265	A	C2-N3-C4	-5.94	107.63	110.60
36	1	367	A	OP1-P-O3'	5.94	118.26	105.20
36	1	1111	U	OP1-P-O3'	5.94	118.26	105.20
36	1	1135	A	C4-C5-C6	5.94	119.97	117.00
36	1	1392	G	N7-C8-N9	-5.94	110.13	113.10
36	1	1447	G	N3-C4-C5	-5.94	125.63	128.60
36	1	2331	C	OP1-P-O3'	5.94	118.26	105.20
36	1	2712	U	N1-C2-N3	5.94	118.46	114.90
36	1	2756	C	OP1-P-OP2	-5.94	110.69	119.60
36	1	2922	G	OP1-P-O3'	5.94	118.26	105.20
36	1	3127	A	C4-C5-N7	5.94	113.67	110.70
36	1	3137	C	C5-C4-N4	-5.94	116.04	120.20
38	4	153	U	C6-N1-C2	5.94	124.56	121.00
80	6	4	C	C5-C4-N4	5.94	124.36	120.20
80	6	69	G	C5-C6-N1	5.94	114.47	111.50
80	6	477	A	N3-C4-C5	5.94	130.96	126.80
80	6	556	A	C2-N3-C4	-5.94	107.63	110.60
80	6	880	C	N1-C2-O2	-5.94	115.34	118.90
85	5	10	C	C6-N1-C2	-5.94	117.92	120.30
85	5	236	G	N3-C4-N9	-5.94	122.44	126.00
85	5	281	G	N1-C6-O6	5.94	123.46	119.90
85	5	379	C	C2-N3-C4	5.94	122.87	119.90
85	5	1241	U	OP1-P-O3'	5.94	118.27	105.20
85	5	1480	G	N3-C2-N2	-5.94	115.74	119.90
85	5	1836	C	OP1-P-OP2	-5.94	110.69	119.60
85	5	2116	G	C5-N7-C8	-5.94	101.33	104.30
85	5	2213	A	N7-C8-N9	-5.94	110.83	113.80
85	5	2878	G	OP1-P-O3'	5.94	118.26	105.20
85	5	3001	C	C6-N1-C2	5.94	122.67	120.30
85	5	3027	A	N9-C4-C5	5.94	108.17	105.80
36	1	942	U	C5-C4-O4	5.94	129.46	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
52	M6	94	ARG	NE-CZ-NH1	-5.94	117.33	120.30
80	6	89	G	N1-C2-N3	-5.94	120.34	123.90
80	6	791	A	C5-N7-C8	-5.94	100.93	103.90
80	6	1244	A	N1-C6-N6	-5.94	115.04	118.60
85	5	420	G	N1-C2-N2	-5.94	110.86	116.20
85	5	869	G	P-O3'-C3'	-5.94	112.58	119.70
85	5	2297	U	C2-N3-C4	-5.94	123.44	127.00
85	5	2639	G	C4-C5-C6	5.94	122.36	118.80
85	5	2998	U	OP1-P-O3'	5.94	118.26	105.20
85	5	3008	A	P-O3'-C3'	-5.94	112.58	119.70
85	5	3306	U	C4-C5-C6	-5.94	116.14	119.70
1	2	586	G	C4-C5-N7	-5.93	108.43	110.80
1	2	635	A	O5'-P-OP2	-5.93	100.36	105.70
1	2	1784	U	C6-N1-C2	-5.93	117.44	121.00
36	1	621	A	C4-C5-N7	5.93	113.67	110.70
36	1	712	G	C6-C5-N7	-5.93	126.84	130.40
36	1	1841	A	C8-N9-C4	5.93	108.17	105.80
36	1	1898	G	C8-N9-C4	-5.93	104.03	106.40
36	1	2099	A	C4-C5-N7	-5.93	107.73	110.70
36	1	2127	U	C2-N3-C4	-5.93	123.44	127.00
36	1	2339	C	C6-N1-C2	5.93	122.67	120.30
36	1	2413	A	N7-C8-N9	5.93	116.77	113.80
36	1	2822	U	C6-N1-C2	-5.93	117.44	121.00
36	1	2849	C	N3-C4-C5	-5.93	119.53	121.90
36	1	3221	C	OP1-P-OP2	5.93	128.50	119.60
36	1	3269	U	O5'-P-OP2	-5.93	100.36	105.70
37	3	99	G	C5-C6-O6	5.93	132.16	128.60
80	6	595	G	C2-N3-C4	-5.93	108.93	111.90
80	6	1724	U	OP1-P-OP2	-5.93	110.70	119.60
85	5	197	G	N3-C4-C5	-5.93	125.63	128.60
85	5	737	G	N1-C2-N3	5.93	127.46	123.90
85	5	1343	A	N3-C4-N9	-5.93	122.65	127.40
85	5	1625	A	N9-C4-C5	-5.93	103.43	105.80
85	5	2795	U	N1-C2-O2	-5.93	118.64	122.80
85	5	2910	A	N1-C2-N3	5.93	132.27	129.30
1	2	8	U	N3-C4-O4	5.93	123.55	119.40
1	2	77	U	N1-C2-O2	5.93	126.95	122.80
1	2	1370	G	O5'-P-OP2	5.93	117.82	110.70
1	2	1651	G	O5'-P-OP2	-5.93	100.36	105.70
36	1	316	U	C6-N1-C2	-5.93	117.44	121.00
36	1	368	G	N3-C2-N2	5.93	124.05	119.90
36	1	410	U	OP1-P-OP2	-5.93	110.70	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1048	A	C5-C6-N6	5.93	128.45	123.70
36	1	1082	U	C5-C6-N1	5.93	125.67	122.70
36	1	1348	U	O5'-P-OP1	-5.93	100.36	105.70
36	1	2171	G	N1-C6-O6	5.93	123.46	119.90
36	1	2445	A	C2-N3-C4	5.93	113.57	110.60
38	4	23	U	O5'-P-OP1	-5.93	100.36	105.70
80	6	101	U	C2-N1-C1'	5.93	124.82	117.70
80	6	348	U	OP1-P-OP2	5.93	128.50	119.60
80	6	722	G	C4-C5-N7	5.93	113.17	110.80
80	6	834	G	C8-N9-C4	5.93	108.77	106.40
80	6	1027	A	N9-C4-C5	-5.93	103.43	105.80
80	6	1558	U	N1-C2-O2	-5.93	118.65	122.80
85	5	310	U	C6-N1-C2	-5.93	117.44	121.00
85	5	1062	A	C5-C6-N6	5.93	128.44	123.70
85	5	1065	A	C8-N9-C4	5.93	108.17	105.80
85	5	1096	U	N3-C4-O4	5.93	123.55	119.40
85	5	1151	U	OP2-P-O3'	5.93	118.25	105.20
85	5	1165	A	P-O3'-C3'	-5.93	112.58	119.70
85	5	1212	A	N1-C2-N3	5.93	132.27	129.30
85	5	1502	C	N3-C4-C5	5.93	124.27	121.90
37	7	24	A	C2-N3-C4	-5.93	107.63	110.60
38	8	112	U	C6-N1-C2	5.93	124.56	121.00
43	16	65	ILE	C-N-CA	-5.93	106.87	121.70
36	1	756	U	O5'-P-OP2	-5.93	100.36	105.70
36	1	1637	A	O4'-C1'-N9	-5.93	103.45	108.20
80	6	359	A	C5-N7-C8	-5.93	100.94	103.90
85	5	286	U	N3-C4-O4	5.93	123.55	119.40
85	5	333	G	C4-C5-C6	5.93	122.36	118.80
85	5	1160	C	C5-C6-N1	-5.93	118.03	121.00
85	5	3118	C	N3-C4-C5	5.93	124.27	121.90
1	2	1093	G	C8-N9-C4	5.93	108.77	106.40
1	2	1415	U	O5'-P-OP2	5.93	117.81	110.70
36	1	316	U	N3-C4-C5	-5.93	111.04	114.60
36	1	851	C	O5'-P-OP2	-5.93	100.36	105.70
36	1	1643	A	O5'-P-OP1	5.93	117.82	110.70
36	1	1719	G	C5-C6-N1	-5.93	108.53	111.50
36	1	1847	A	C4-C5-C6	5.93	119.97	117.00
36	1	2533	G	C4-C5-C6	-5.93	115.24	118.80
36	1	2534	G	C2-N3-C4	5.93	114.86	111.90
38	4	135	G	C6-C5-N7	-5.93	126.84	130.40
80	6	282	C	N1-C2-O2	-5.93	115.34	118.90
80	6	388	G	C2-N3-C4	-5.93	108.94	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	764	U	C6-N1-C2	-5.93	117.44	121.00
80	6	815	G	C2-N3-C4	5.93	114.86	111.90
85	5	1070	U	OP1-P-OP2	-5.93	110.71	119.60
85	5	1213	G	C2-N3-C4	-5.93	108.94	111.90
85	5	1608	C	N3-C4-N4	5.93	122.15	118.00
85	5	1787	A	N1-C6-N6	5.93	122.16	118.60
85	5	1801	U	N1-C2-N3	5.93	118.46	114.90
85	5	2941	A	C5-C6-N6	5.93	128.44	123.70
37	7	74	C	O5'-P-OP2	5.93	117.81	110.70
38	8	140	G	N9-C4-C5	5.93	107.77	105.40
1	2	120	U	N3-C2-O2	5.93	126.35	122.20
1	2	330	G	N1-C6-O6	-5.93	116.34	119.90
36	1	407	A	C5-C6-N6	-5.93	118.96	123.70
36	1	985	U	C2-N3-C4	-5.93	123.44	127.00
36	1	2367	A	C5-C6-N6	-5.93	118.96	123.70
36	1	2383	C	N3-C4-C5	5.93	124.27	121.90
51	M5	199	LEU	CB-CG-CD1	-5.93	100.92	111.00
80	6	63	G	OP1-P-OP2	5.93	128.49	119.60
85	5	1428	A	C4-C5-N7	-5.93	107.74	110.70
85	5	1912	U	C6-N1-C2	5.93	124.56	121.00
1	2	102	U	N3-C4-O4	5.93	123.55	119.40
1	2	192	U	C6-N1-C2	-5.93	117.44	121.00
1	2	645	C	C5-C6-N1	5.93	123.96	121.00
1	2	819	U	N1-C2-N3	-5.93	111.34	114.90
1	2	977	G	C4-C5-N7	-5.93	108.43	110.80
1	2	1145	C	OP1-P-OP2	-5.93	110.71	119.60
1	2	1707	U	N3-C4-O4	5.93	123.55	119.40
36	1	280	U	C2-N3-C4	-5.93	123.44	127.00
36	1	703	G	N3-C4-C5	-5.93	125.64	128.60
36	1	809	G	C6-C5-N7	-5.93	126.84	130.40
36	1	2381	G	N3-C2-N2	-5.93	115.75	119.90
36	1	2575	G	N1-C2-N2	5.93	121.53	116.20
36	1	2933	A	C8-N9-C4	-5.93	103.43	105.80
36	1	3044	G	N1-C2-N3	5.93	127.46	123.90
36	1	3146	G	C5-C6-N1	-5.93	108.54	111.50
37	3	13	A	C6-C5-N7	-5.93	128.15	132.30
80	6	116	U	OP1-P-OP2	5.93	128.49	119.60
80	6	387	A	C4-C5-N7	-5.93	107.74	110.70
80	6	994	G	C6-C5-N7	-5.93	126.84	130.40
80	6	1004	U	N1-C2-O2	-5.93	118.65	122.80
80	6	1650	U	N3-C2-O2	5.93	126.35	122.20
80	6	1681	A	N3-C4-C5	5.93	130.95	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1006	A	C5-N7-C8	5.93	106.86	103.90
85	5	1469	C	O5'-P-OP2	-5.93	100.37	105.70
85	5	2762	A	C5-N7-C8	-5.93	100.94	103.90
85	5	2796	G	OP1-P-OP2	5.93	128.49	119.60
85	5	2959	C	C2-N3-C4	-5.93	116.94	119.90
1	2	195	G	O5'-P-OP1	-5.92	100.37	105.70
1	2	222	A	N9-C4-C5	-5.92	103.43	105.80
1	2	421	A	N1-C6-N6	5.92	122.16	118.60
1	2	686	G	C5-C6-N1	-5.92	108.54	111.50
1	2	843	U	C5-C6-N1	5.92	125.66	122.70
36	1	4	U	C5-C6-N1	5.92	125.66	122.70
36	1	15	C	OP1-P-OP2	-5.92	110.71	119.60
36	1	319	A	C5-N7-C8	5.92	106.86	103.90
36	1	769	G	C8-N9-C1'	-5.92	119.30	127.00
36	1	2343	C	C5-C6-N1	-5.92	118.04	121.00
36	1	2616	C	N1-C2-O2	5.92	122.45	118.90
36	1	2777	G	N3-C2-N2	-5.92	115.75	119.90
36	1	3262	U	OP2-P-O3'	5.92	118.23	105.20
36	1	3269	U	C5-C4-O4	5.92	129.46	125.90
36	1	3286	G	N3-C4-N9	5.92	129.56	126.00
80	6	170	U	O5'-P-OP2	5.92	117.81	110.70
80	6	337	G	C5-N7-C8	-5.92	101.34	104.30
80	6	381	C	C6-N1-C2	-5.92	117.93	120.30
80	6	1548	G	C5-C6-O6	5.92	132.16	128.60
85	5	221	A	N1-C2-N3	5.92	132.26	129.30
85	5	858	A	O5'-P-OP2	-5.92	100.37	105.70
85	5	1295	G	N3-C4-N9	-5.92	122.44	126.00
85	5	3019	U	C4-C5-C6	-5.92	116.14	119.70
85	5	3354	U	N3-C4-C5	-5.92	111.05	114.60
37	7	7	G	O5'-P-OP2	5.92	117.81	110.70
37	7	22	A	O5'-P-OP2	-5.92	100.37	105.70
1	2	1793	G	N3-C4-C5	-5.92	125.64	128.60
36	1	720	A	N9-C4-C5	5.92	108.17	105.80
36	1	1589	A	C4-C5-C6	5.92	119.96	117.00
36	1	1603	A	OP1-P-O3'	5.92	118.23	105.20
36	1	2271	A	N1-C6-N6	-5.92	115.05	118.60
36	1	2592	G	N9-C4-C5	-5.92	103.03	105.40
85	5	2842	U	N3-C2-O2	-5.92	118.05	122.20
37	7	55	A	C5-N7-C8	-5.92	100.94	103.90
1	2	1243	U	N3-C2-O2	5.92	126.34	122.20
1	2	1281	U	C6-N1-C2	-5.92	117.45	121.00
1	2	1544	U	C5-C6-N1	5.92	125.66	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	356	C	N3-C4-N4	5.92	122.14	118.00
36	1	358	G	C4-C5-C6	-5.92	115.25	118.80
36	1	501	A	C8-N9-C4	5.92	108.17	105.80
36	1	944	C	N1-C2-O2	-5.92	115.35	118.90
36	1	1599	G	N1-C6-O6	5.92	123.45	119.90
36	1	2400	G	N3-C4-N9	5.92	129.55	126.00
36	1	2928	C	N1-C2-N3	5.92	123.34	119.20
80	6	346	G	C6-C5-N7	-5.92	126.85	130.40
85	5	645	A	O5'-P-OP1	5.92	117.81	110.70
85	5	1634	G	N3-C4-C5	5.92	131.56	128.60
85	5	1656	A	OP1-P-O3'	5.92	118.23	105.20
85	5	1808	G	C5-C6-N1	-5.92	108.54	111.50
85	5	1848	G	N3-C4-N9	5.92	129.55	126.00
85	5	2096	A	C4-C5-N7	5.92	113.66	110.70
85	5	2346	C	N3-C2-O2	5.92	126.05	121.90
85	5	2649	A	C4-C5-N7	5.92	113.66	110.70
1	2	73	U	O4'-C1'-N1	5.92	112.94	108.20
1	2	1483	C	C2-N3-C4	5.92	122.86	119.90
36	1	1175	C	OP1-P-O3'	-5.92	92.17	105.20
36	1	1188	U	O5'-P-OP1	5.92	117.80	110.70
36	1	1269	U	C5-C6-N1	5.92	125.66	122.70
36	1	1424	C	OP1-P-O3'	-5.92	92.18	105.20
36	1	1473	G	N3-C4-C5	5.92	131.56	128.60
36	1	2317	A	N1-C6-N6	-5.92	115.05	118.60
85	5	2261	G	C2-N3-C4	-5.92	108.94	111.90
37	7	72	A	N3-C4-C5	-5.92	122.66	126.80
1	2	921	G	N7-C8-N9	5.92	116.06	113.10
1	2	1137	G	N7-C8-N9	5.92	116.06	113.10
36	1	60	A	N1-C2-N3	5.92	132.26	129.30
36	1	172	G	N9-C4-C5	-5.92	103.03	105.40
36	1	1439	U	C6-N1-C2	-5.92	117.45	121.00
36	1	2824	G	C6-C5-N7	-5.92	126.85	130.40
36	1	2993	G	N1-C2-N2	-5.92	110.87	116.20
36	1	3093	C	N3-C4-N4	5.92	122.14	118.00
37	3	112	G	C5-C6-N1	5.92	114.46	111.50
80	6	232	U	C5-C6-N1	5.92	125.66	122.70
80	6	239	C	C4-C5-C6	-5.92	114.44	117.40
80	6	1728	A	C4-C5-N7	5.92	113.66	110.70
85	5	131	C	C5-C4-N4	5.92	124.34	120.20
85	5	777	U	N1-C2-N3	-5.92	111.35	114.90
85	5	951	A	C5-C6-N6	5.92	128.43	123.70
85	5	1265	U	O5'-P-OP1	-5.92	100.37	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2346	C	N1-C2-O2	-5.92	115.35	118.90
85	5	2751	G	O5'-P-OP1	-5.92	100.37	105.70
85	5	3028	G	C2-N3-C4	-5.92	108.94	111.90
38	8	5	U	O5'-P-OP2	-5.92	100.37	105.70
70	o4	44	CYS	CA-CB-SG	5.92	124.65	114.00
1	2	370	A	C5-N7-C8	5.92	106.86	103.90
1	2	798	G	N1-C6-O6	5.92	123.45	119.90
1	2	917	C	N3-C2-O2	-5.92	117.76	121.90
1	2	1090	G	N3-C2-N2	-5.92	115.76	119.90
1	2	1744	U	C6-N1-C2	-5.92	117.45	121.00
36	1	18	G	OP2-P-O3'	5.92	118.22	105.20
36	1	336	A	N1-C2-N3	-5.92	126.34	129.30
36	1	363	G	C4-C5-N7	5.92	113.17	110.80
36	1	1518	U	C4-C5-C6	5.92	123.25	119.70
36	1	1704	A	N7-C8-N9	-5.92	110.84	113.80
36	1	1843	C	C6-N1-C1'	-5.92	113.70	120.80
36	1	2387	A	C6-N1-C2	5.92	122.15	118.60
36	1	2415	C	C2-N3-C4	-5.92	116.94	119.90
36	1	2577	C	C4-C5-C6	5.92	120.36	117.40
36	1	3015	G	OP1-P-OP2	-5.92	110.73	119.60
80	6	69	G	N1-C2-N2	-5.92	110.88	116.20
85	5	162	G	C2-N3-C4	-5.92	108.94	111.90
85	5	501	A	N1-C2-N3	5.92	132.26	129.30
85	5	658	G	N3-C4-C5	5.92	131.56	128.60
85	5	1063	G	N1-C6-O6	5.92	123.45	119.90
85	5	1178	G	OP1-P-O3'	5.92	118.22	105.20
85	5	1332	A	C5-N7-C8	-5.92	100.94	103.90
85	5	1428	A	OP2-P-O3'	5.92	118.22	105.20
85	5	1478	C	N1-C2-N3	5.92	123.34	119.20
85	5	2134	G	C6-N1-C2	5.92	128.65	125.10
85	5	2172	A	C5-C6-N1	-5.92	114.74	117.70
85	5	2591	A	C6-N1-C2	5.92	122.15	118.60
85	5	2838	A	C5-N7-C8	5.92	106.86	103.90
85	5	2904	U	N3-C4-C5	5.92	118.15	114.60
85	5	3262	U	N1-C2-O2	-5.92	118.66	122.80
38	8	100	U	C5-C4-O4	-5.92	122.35	125.90
36	1	128	G	C5-C6-N1	-5.92	108.54	111.50
36	1	852	U	O5'-P-OP2	-5.92	100.38	105.70
36	1	1673	G	C4-N9-C1'	5.92	134.19	126.50
36	1	2774	C	C6-N1-C2	-5.92	117.93	120.30
80	6	562	G	C8-N9-C4	5.92	108.77	106.40
85	5	1314	C	N1-C2-N3	5.92	123.34	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1771	C	N1-C2-N3	5.92	123.34	119.20
85	5	2549	G	N3-C4-C5	5.92	131.56	128.60
85	5	2705	A	C6-C5-N7	-5.92	128.16	132.30
1	2	1593	G	N1-C2-N3	5.91	127.45	123.90
36	1	32	U	O5'-P-OP1	5.91	117.80	110.70
36	1	57	A	N3-C4-C5	5.91	130.94	126.80
36	1	201	A	N3-C4-N9	-5.91	122.67	127.40
36	1	539	C	N3-C2-O2	5.91	126.04	121.90
36	1	801	A	N1-C2-N3	5.91	132.26	129.30
36	1	2519	A	N1-C2-N3	5.91	132.26	129.30
36	1	2702	A	C8-N9-C4	-5.91	103.44	105.80
36	1	3184	A	N1-C2-N3	-5.91	126.34	129.30
37	3	100	C	N3-C4-C5	-5.91	119.53	121.90
80	6	1495	C	OP1-P-OP2	5.91	128.47	119.60
85	5	372	A	C5-C6-N1	5.91	120.66	117.70
85	5	733	G	C6-N1-C2	5.91	128.65	125.10
85	5	1129	A	N7-C8-N9	5.91	116.76	113.80
85	5	1586	G	N1-C6-O6	-5.91	116.35	119.90
85	5	2374	C	C6-N1-C1'	-5.91	113.70	120.80
85	5	2715	A	C6-C5-N7	-5.91	128.16	132.30
85	5	2751	G	C4-C5-C6	-5.91	115.25	118.80
85	5	2798	C	C2-N3-C4	-5.91	116.94	119.90
85	5	3264	G	O5'-P-OP2	-5.91	100.38	105.70
37	7	21	G	N9-C4-C5	5.91	107.77	105.40
37	7	23	A	N9-C4-C5	5.91	108.17	105.80
38	8	121	U	C2-N1-C1'	5.91	124.80	117.70
1	2	220	A	C5-C6-N6	-5.91	118.97	123.70
1	2	1656	G	C2-N3-C4	-5.91	108.94	111.90
1	2	1658	C	C6-N1-C2	-5.91	117.94	120.30
36	1	1124	U	N3-C4-O4	-5.91	115.26	119.40
36	1	1765	U	N1-C2-O2	5.91	126.94	122.80
36	1	2570	U	N1-C2-O2	5.91	126.94	122.80
36	1	3058	U	C4-C5-C6	5.91	123.25	119.70
80	6	816	G	N1-C2-N3	-5.91	120.35	123.90
85	5	1192	C	C2-N3-C4	-5.91	116.94	119.90
85	5	1357	G	C5-N7-C8	-5.91	101.34	104.30
85	5	1572	U	C5-C6-N1	5.91	125.66	122.70
85	5	2174	G	C8-N9-C4	5.91	108.77	106.40
1	2	114	C	N3-C2-O2	-5.91	117.76	121.90
1	2	115	G	OP1-P-OP2	-5.91	110.73	119.60
1	2	157	A	C8-N9-C4	5.91	108.16	105.80
1	2	196	G	C6-N1-C2	-5.91	121.55	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1298	U	N1-C2-N3	5.91	118.45	114.90
1	2	1487	G	C4-C5-N7	5.91	113.16	110.80
1	2	1799	C	C5-C6-N1	5.91	123.95	121.00
36	1	85	A	OP2-P-O3'	5.91	118.20	105.20
36	1	178	U	C6-N1-C2	-5.91	117.45	121.00
36	1	1300	G	C5-C6-N1	5.91	114.45	111.50
36	1	2116	G	N9-C4-C5	5.91	107.77	105.40
36	1	2532	U	N1-C2-N3	5.91	118.45	114.90
36	1	2662	G	N1-C2-N2	-5.91	110.88	116.20
36	1	2700	G	C5-C6-N1	5.91	114.45	111.50
36	1	2917	G	N1-C2-N2	5.91	121.52	116.20
36	1	3022	G	OP2-P-O3'	5.91	118.20	105.20
36	1	3173	G	C5-C6-O6	-5.91	125.05	128.60
38	4	131	A	C2-N3-C4	5.91	113.56	110.60
80	6	241	U	N3-C2-O2	5.91	126.34	122.20
80	6	272	U	OP1-P-OP2	-5.91	110.73	119.60
85	5	2110	G	C5-C6-O6	5.91	132.15	128.60
85	5	2887	A	C6-N1-C2	-5.91	115.05	118.60
37	7	96	U	N1-C2-N3	5.91	118.45	114.90
1	2	311	U	N3-C4-C5	-5.91	111.06	114.60
1	2	606	A	N9-C4-C5	-5.91	103.44	105.80
1	2	1249	U	C2-N3-C4	5.91	130.54	127.00
1	2	1362	C	C5-C6-N1	5.91	123.95	121.00
36	1	325	A	N1-C2-N3	-5.91	126.35	129.30
36	1	545	U	N1-C2-O2	5.91	126.94	122.80
36	1	597	G	N3-C4-C5	-5.91	125.65	128.60
36	1	953	G	C6-C5-N7	-5.91	126.86	130.40
36	1	1028	U	N3-C4-O4	5.91	123.54	119.40
36	1	1292	C	O5'-P-OP2	-5.91	100.38	105.70
36	1	1634	G	N1-C2-N3	5.91	127.45	123.90
36	1	1653	G	C8-N9-C4	5.91	108.76	106.40
36	1	1776	G	O5'-P-OP2	5.91	117.79	110.70
36	1	2894	C	C5-C6-N1	-5.91	118.05	121.00
38	4	108	C	N3-C2-O2	5.91	126.04	121.90
80	6	1041	G	C6-C5-N7	-5.91	126.86	130.40
80	6	1755	A	P-O3'-C3'	5.91	126.79	119.70
85	5	433	A	C6-C5-N7	-5.91	128.16	132.30
85	5	602	A	O5'-P-OP1	5.91	117.79	110.70
85	5	936	A	N7-C8-N9	5.91	116.75	113.80
85	5	1009	A	C6-C5-N7	-5.91	128.16	132.30
85	5	1500	G	C2-N3-C4	-5.91	108.95	111.90
85	5	2769	A	O5'-P-OP1	5.91	117.79	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2863	G	C4-C5-N7	-5.91	108.44	110.80
38	8	58	G	C2-N3-C4	-5.91	108.95	111.90
1	2	773	U	N3-C4-O4	5.91	123.53	119.40
1	2	1610	U	O5'-P-OP1	5.91	117.79	110.70
1	2	1745	A	C2-N3-C4	-5.91	107.65	110.60
36	1	550	A	N1-C6-N6	5.91	122.14	118.60
36	1	1647	A	C2-N3-C4	-5.91	107.65	110.60
36	1	2347	U	O5'-P-OP1	5.91	117.79	110.70
36	1	2514	U	N1-C2-N3	5.91	118.44	114.90
80	6	604	A	C8-N9-C4	5.91	108.16	105.80
80	6	974	A	OP2-P-O3'	5.91	118.19	105.20
80	6	1608	U	C6-N1-C2	-5.91	117.46	121.00
85	5	173	G	C5-C6-N1	5.91	114.45	111.50
85	5	1183	C	O5'-P-OP1	5.91	117.79	110.70
85	5	1202	A	OP2-P-O3'	5.91	118.19	105.20
85	5	2353	G	C4-C5-C6	5.91	122.34	118.80
1	2	1714	A	C8-N9-C4	5.91	108.16	105.80
36	1	391	A	N3-C4-C5	-5.91	122.67	126.80
36	1	741	U	C5-C6-N1	-5.91	119.75	122.70
36	1	868	C	C4-C5-C6	5.91	120.35	117.40
36	1	1146	C	O5'-P-OP2	-5.91	100.39	105.70
36	1	1396	C	N3-C2-O2	5.91	126.03	121.90
36	1	1549	U	N3-C2-O2	-5.91	118.07	122.20
36	1	1658	G	N3-C2-N2	-5.91	115.77	119.90
36	1	2917	G	N1-C2-N3	-5.91	120.36	123.90
36	1	2949	U	N1-C2-O2	5.91	126.93	122.80
36	1	3098	G	N1-C2-N2	-5.91	110.89	116.20
80	6	97	C	N1-C2-O2	-5.91	115.36	118.90
80	6	328	A	OP1-P-OP2	-5.91	110.74	119.60
80	6	872	G	C5-C6-O6	-5.91	125.06	128.60
80	6	1347	U	N1-C2-O2	-5.91	118.67	122.80
85	5	916	G	C4-C5-C6	5.91	122.34	118.80
85	5	1148	G	OP1-P-OP2	-5.91	110.74	119.60
85	5	1769	G	C5-C6-N1	5.91	114.45	111.50
85	5	2115	G	OP1-P-O3'	5.91	118.19	105.20
85	5	3098	G	N3-C2-N2	-5.91	115.77	119.90
37	7	109	G	N3-C4-C5	5.91	131.55	128.60
41	14	98	ARG	NE-CZ-NH1	5.91	123.25	120.30
36	1	413	U	C4-C5-C6	5.90	123.24	119.70
36	1	689	U	N1-C2-O2	5.90	126.93	122.80
36	1	1517	G	C6-C5-N7	-5.90	126.86	130.40
36	1	2585	G	C8-N9-C4	-5.90	104.04	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2609	A	OP2-P-O3'	5.90	118.19	105.20
85	5	211	A	N7-C8-N9	5.90	116.75	113.80
85	5	1139	G	C8-N9-C4	5.90	108.76	106.40
85	5	1179	A	N1-C2-N3	5.90	132.25	129.30
85	5	1179	A	N3-C4-C5	-5.90	122.67	126.80
85	5	2591	A	C8-N9-C4	5.90	108.16	105.80
85	5	2729	U	C2-N1-C1'	-5.90	110.61	117.70
36	1	413	U	N1-C2-N3	5.90	118.44	114.90
36	1	692	A	C5-C6-N1	5.90	120.65	117.70
36	1	1618	G	O5'-P-OP1	5.90	117.78	110.70
36	1	1668	G	C2-N3-C4	-5.90	108.95	111.90
36	1	1688	U	C6-N1-C2	-5.90	117.46	121.00
36	1	2390	A	C8-N9-C4	5.90	108.16	105.80
36	1	2739	A	C6-C5-N7	-5.90	128.17	132.30
36	1	3218	A	OP1-P-OP2	5.90	128.45	119.60
38	4	66	A	N9-C4-C5	5.90	108.16	105.80
41	L4	47	ARG	NE-CZ-NH2	5.90	123.25	120.30
80	6	559	C	O5'-P-OP1	5.90	117.78	110.70
80	6	693	U	C5-C4-O4	-5.90	122.36	125.90
85	5	52	A	N7-C8-N9	-5.90	110.85	113.80
85	5	93	C	C5-C6-N1	5.90	123.95	121.00
85	5	1056	U	C4-C5-C6	-5.90	116.16	119.70
85	5	1100	U	N3-C2-O2	-5.90	118.07	122.20
85	5	1370	G	C8-N9-C4	5.90	108.76	106.40
85	5	2718	U	N1-C2-O2	-5.90	118.67	122.80
85	5	2862	U	OP1-P-OP2	5.90	128.45	119.60
85	5	3219	G	C5-C6-O6	-5.90	125.06	128.60
1	2	1042	U	N1-C2-O2	5.90	126.93	122.80
36	1	429	U	N1-C2-O2	-5.90	118.67	122.80
36	1	1659	U	O5'-P-OP2	-5.90	100.39	105.70
36	1	1680	G	C2-N3-C4	-5.90	108.95	111.90
36	1	1690	C	C5-C4-N4	5.90	124.33	120.20
36	1	2731	U	C5-C6-N1	5.90	125.65	122.70
37	3	63	A	N1-C2-N3	5.90	132.25	129.30
37	3	82	G	C2-N3-C4	-5.90	108.95	111.90
54	M8	127	LEU	CA-CB-CG	5.90	128.87	115.30
80	6	439	U	OP1-P-O3'	5.90	118.18	105.20
80	6	1408	G	N3-C2-N2	-5.90	115.77	119.90
85	5	118	U	C5-C6-N1	-5.90	119.75	122.70
85	5	282	G	OP2-P-O3'	5.90	118.18	105.20
85	5	805	G	C5-C6-N1	5.90	114.45	111.50
85	5	1148	G	C5-C6-N1	5.90	114.45	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1322	U	N3-C4-O4	5.90	123.53	119.40
85	5	1509	A	N7-C8-N9	-5.90	110.85	113.80
85	5	1881	A	O5'-P-OP2	-5.90	100.39	105.70
85	5	1939	G	OP2-P-O3'	5.90	118.18	105.20
85	5	1940	G	N7-C8-N9	5.90	116.05	113.10
85	5	3094	A	N1-C2-N3	5.90	132.25	129.30
85	5	3222	U	C4-C5-C6	-5.90	116.16	119.70
85	5	3295	A	P-O3'-C3'	-5.90	112.62	119.70
85	5	3307	A	N7-C8-N9	5.90	116.75	113.80
59	n3	97	ASP	CB-CG-OD1	-5.90	112.99	118.30
1	2	359	A	N9-C4-C5	-5.90	103.44	105.80
36	1	590	G	N7-C8-N9	5.90	116.05	113.10
36	1	983	A	C4-C5-C6	5.90	119.95	117.00
36	1	1799	A	C4-C5-N7	-5.90	107.75	110.70
36	1	3377	G	N9-C4-C5	-5.90	103.04	105.40
80	6	151	G	N7-C8-N9	5.90	116.05	113.10
85	5	153	U	C5-C4-O4	5.90	129.44	125.90
85	5	780	A	N3-C4-C5	5.90	130.93	126.80
85	5	1907	C	C2-N3-C4	-5.90	116.95	119.90
85	5	2748	A	N9-C4-C5	-5.90	103.44	105.80
1	2	1528	A	N1-C6-N6	5.90	122.14	118.60
36	1	358	G	C8-N9-C1'	5.90	134.67	127.00
36	1	514	G	OP2-P-O3'	5.90	118.18	105.20
36	1	554	A	C2-N3-C4	5.90	113.55	110.60
36	1	1125	U	C4-C5-C6	5.90	123.24	119.70
36	1	1802	C	C6-N1-C2	-5.90	117.94	120.30
36	1	2685	C	N1-C2-O2	-5.90	115.36	118.90
80	6	173	A	N7-C8-N9	5.90	116.75	113.80
80	6	413	U	N3-C2-O2	-5.90	118.07	122.20
80	6	1130	G	N1-C6-O6	5.90	123.44	119.90
80	6	1733	C	C2-N3-C4	-5.90	116.95	119.90
85	5	55	G	OP1-P-OP2	-5.90	110.75	119.60
85	5	214	G	OP1-P-OP2	-5.90	110.75	119.60
85	5	880	G	C8-N9-C4	5.90	108.76	106.40
85	5	922	U	N3-C4-O4	-5.90	115.27	119.40
85	5	1542	G	N3-C4-N9	-5.90	122.46	126.00
85	5	2110	G	C5-C6-N1	-5.90	108.55	111.50
37	7	31	U	N3-C2-O2	-5.90	118.07	122.20
38	8	75	G	O5'-P-OP2	5.90	117.78	110.70
1	2	973	C	OP1-P-OP2	-5.90	110.76	119.60
1	2	1182	G	O5'-P-OP2	5.90	117.78	110.70
36	1	161	G	N1-C2-N2	-5.90	110.89	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	214	G	C5-C6-O6	5.90	132.14	128.60
36	1	272	G	N1-C2-N3	5.90	127.44	123.90
36	1	1116	G	C4-C5-C6	5.90	122.34	118.80
36	1	1849	C	C6-N1-C2	-5.90	117.94	120.30
36	1	2160	G	N9-C4-C5	5.90	107.76	105.40
80	6	1126	G	C2-N3-C4	-5.90	108.95	111.90
85	5	1437	C	OP1-P-OP2	-5.90	110.76	119.60
85	5	1456	A	C2-N3-C4	-5.90	107.65	110.60
85	5	2258	U	OP2-P-O3'	5.90	118.17	105.20
1	2	545	A	OP1-P-OP2	-5.89	110.76	119.60
1	2	1140	A	OP1-P-OP2	-5.89	110.76	119.60
1	2	1261	G	C2-N3-C4	5.89	114.85	111.90
36	1	589	A	OP1-P-OP2	-5.89	110.76	119.60
36	1	763	G	C2-N3-C4	5.89	114.85	111.90
36	1	765	C	C6-N1-C2	5.89	122.66	120.30
36	1	1119	C	N3-C2-O2	5.89	126.03	121.90
36	1	1435	A	O5'-P-OP2	5.89	117.77	110.70
36	1	1919	G	C4-C5-N7	5.89	113.16	110.80
36	1	2407	C	C2-N1-C1'	5.89	125.28	118.80
36	1	2960	C	O5'-P-OP1	5.89	117.77	110.70
36	1	3000	A	N3-C4-N9	-5.89	122.69	127.40
36	1	3063	C	C5-C6-N1	-5.89	118.05	121.00
36	1	3119	U	C5-C6-N1	5.89	125.65	122.70
36	1	3145	C	N3-C2-O2	5.89	126.03	121.90
38	4	109	A	N9-C4-C5	5.89	108.16	105.80
54	M8	165	ILE	CG1-CB-CG2	-5.89	98.43	111.40
80	6	329	G	N7-C8-N9	5.89	116.05	113.10
80	6	1759	C	C6-N1-C2	5.89	122.66	120.30
85	5	119	U	N1-C2-N3	5.89	118.44	114.90
85	5	509	U	C5-C6-N1	-5.89	119.75	122.70
85	5	2401	A	C5-C6-N1	5.89	120.65	117.70
85	5	3199	G	C4-C5-N7	-5.89	108.44	110.80
38	8	3	A	C4-C5-C6	-5.89	114.05	117.00
1	2	1541	U	N3-C2-O2	-5.89	118.08	122.20
1	2	1578	U	N1-C2-N3	5.89	118.44	114.90
36	1	1062	A	C4-C5-N7	5.89	113.65	110.70
36	1	1358	C	OP1-P-OP2	5.89	128.44	119.60
36	1	1730	G	C8-N9-C4	-5.89	104.04	106.40
36	1	3244	A	C4-C5-C6	5.89	119.95	117.00
38	4	41	A	N9-C4-C5	5.89	108.16	105.80
80	6	876	G	O5'-P-OP1	-5.89	100.40	105.70
80	6	1145	U	N3-C2-O2	5.89	126.33	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1296	A	C2-N3-C4	-5.89	107.65	110.60
80	6	1575	G	N1-C2-N3	-5.89	120.36	123.90
85	5	234	G	C6-N1-C2	5.89	128.64	125.10
85	5	576	C	OP1-P-OP2	5.89	128.44	119.60
85	5	746	A	O5'-P-OP2	-5.89	100.40	105.70
85	5	943	U	OP1-P-O3'	5.89	118.17	105.20
85	5	1195	A	C5-C6-N6	5.89	128.41	123.70
85	5	1316	C	N3-C4-N4	5.89	122.12	118.00
85	5	1371	G	OP2-P-O3'	5.89	118.16	105.20
85	5	1496	C	C2-N3-C4	5.89	122.85	119.90
85	5	1945	A	O5'-P-OP1	-5.89	100.40	105.70
85	5	3101	G	C6-N1-C2	-5.89	121.56	125.10
37	7	119	U	O5'-P-OP2	-5.89	100.40	105.70
36	1	953	G	C8-N9-C4	5.89	108.76	106.40
36	1	2201	G	N1-C2-N3	5.89	127.43	123.90
36	1	2694	A	C8-N9-C4	-5.89	103.44	105.80
36	1	2895	G	C2-N3-C4	-5.89	108.95	111.90
80	6	482	U	N3-C4-C5	-5.89	111.07	114.60
80	6	763	G	N1-C2-N3	5.89	127.44	123.90
80	6	1443	U	C4-C5-C6	5.89	123.23	119.70
80	6	1513	G	N1-C6-O6	-5.89	116.36	119.90
80	6	1748	G	N9-C4-C5	-5.89	103.04	105.40
85	5	650	C	N1-C2-N3	5.89	123.32	119.20
85	5	1544	G	C2-N3-C4	-5.89	108.95	111.90
85	5	2173	U	OP2-P-O3'	5.89	118.16	105.20
85	5	2598	G	N1-C2-N3	5.89	127.44	123.90
1	2	897	G	C6-N1-C2	5.89	128.63	125.10
1	2	1372	C	C5-C4-N4	5.89	124.32	120.20
1	2	1760	G	C2-N3-C4	5.89	114.84	111.90
36	1	534	U	N1-C2-O2	5.89	126.92	122.80
36	1	1168	U	C2-N3-C4	-5.89	123.47	127.00
36	1	1284	C	N1-C2-O2	-5.89	115.37	118.90
36	1	1553	U	C5-C6-N1	-5.89	119.76	122.70
36	1	2284	C	C2-N1-C1'	5.89	125.28	118.80
36	1	2871	G	P-O3'-C3'	5.89	126.77	119.70
36	1	3007	U	N3-C4-O4	-5.89	115.28	119.40
36	1	3013	U	N3-C2-O2	5.89	126.32	122.20
36	1	3066	U	C5-C6-N1	-5.89	119.75	122.70
80	6	103	A	C4-C5-C6	5.89	119.94	117.00
80	6	322	G	N7-C8-N9	5.89	116.04	113.10
80	6	1719	A	N1-C2-N3	5.89	132.25	129.30
85	5	1532	C	OP1-P-O3'	5.89	118.16	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2262	A	C5-C6-N6	-5.89	118.99	123.70
85	5	2428	U	N1-C2-N3	5.89	118.43	114.90
85	5	2853	A	OP1-P-O3'	-5.89	92.24	105.20
85	5	3257	C	N1-C2-O2	-5.89	115.37	118.90
1	2	962	A	C5-C6-N1	5.89	120.64	117.70
1	2	1158	U	OP1-P-O3'	5.89	118.16	105.20
36	1	922	U	C5-C6-N1	5.89	125.64	122.70
36	1	946	U	C2-N1-C1'	5.89	124.77	117.70
36	1	1350	A	O5'-P-OP1	-5.89	100.40	105.70
36	1	3027	A	OP1-P-O3'	5.89	118.15	105.20
36	1	3337	G	N1-C2-N2	-5.89	110.90	116.20
38	4	87	G	C4-C5-C6	-5.89	115.27	118.80
85	5	854	G	N1-C2-N2	-5.89	110.90	116.20
1	2	832	C	C6-N1-C2	-5.89	117.94	120.30
1	2	946	A	C5-C6-N1	5.89	120.64	117.70
1	2	1616	A	N1-C2-N3	5.89	132.24	129.30
1	2	1765	A	C5-C6-N6	5.89	128.41	123.70
36	1	61	A	N1-C6-N6	-5.89	115.07	118.60
36	1	92	G	C8-N9-C1'	-5.89	119.35	127.00
36	1	101	G	N3-C2-N2	-5.89	115.78	119.90
36	1	332	C	N3-C4-N4	-5.89	113.88	118.00
36	1	590	G	N1-C2-N2	5.89	121.50	116.20
36	1	729	C	O4'-C1'-N1	5.89	112.91	108.20
36	1	1001	G	C5-C6-O6	5.89	132.13	128.60
36	1	1346	G	N9-C4-C5	5.89	107.75	105.40
36	1	1646	G	N1-C2-N2	-5.89	110.90	116.20
36	1	1807	G	N3-C4-C5	-5.89	125.66	128.60
36	1	1894	U	C6-N1-C2	-5.89	117.47	121.00
36	1	2384	A	C5-N7-C8	-5.89	100.96	103.90
36	1	2421	U	C4-C5-C6	-5.89	116.17	119.70
36	1	2537	U	N3-C2-O2	-5.89	118.08	122.20
36	1	2705	A	N1-C6-N6	-5.89	115.07	118.60
36	1	2845	A	C4-C5-C6	5.89	119.94	117.00
36	1	3243	A	O5'-P-OP1	-5.89	100.40	105.70
37	3	73	C	C5-C6-N1	5.89	123.94	121.00
80	6	557	G	C2-N3-C4	-5.89	108.96	111.90
80	6	790	U	C5-C6-N1	5.89	125.64	122.70
80	6	1617	U	N1-C2-N3	5.89	118.43	114.90
80	6	1750	A	OP1-P-OP2	5.89	128.43	119.60
85	5	163	C	N3-C4-C5	5.89	124.25	121.90
85	5	348	A	C4-C5-C6	5.89	119.94	117.00
85	5	572	A	C6-N1-C2	-5.89	115.07	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	817	A	C4-C5-N7	5.89	113.64	110.70
85	5	865	U	C6-N1-C1'	5.89	129.44	121.20
85	5	1092	C	N3-C2-O2	5.89	126.02	121.90
85	5	1305	U	OP2-P-O3'	5.89	118.15	105.20
85	5	2297	U	N1-C2-N3	5.89	118.43	114.90
85	5	2787	G	C8-N9-C4	-5.89	104.05	106.40
85	5	3345	G	N3-C2-N2	-5.89	115.78	119.90
1	2	584	C	C2-N3-C4	-5.88	116.96	119.90
36	1	274	G	C2-N3-C4	-5.88	108.96	111.90
36	1	821	U	N3-C2-O2	5.88	126.32	122.20
36	1	890	C	C6-N1-C2	-5.88	117.95	120.30
36	1	931	C	N3-C4-C5	5.88	124.25	121.90
36	1	1010	G	C8-N9-C4	5.88	108.75	106.40
36	1	2369	G	OP1-P-O3'	5.88	118.15	105.20
36	1	2535	A	N1-C2-N3	-5.88	126.36	129.30
36	1	2678	A	OP1-P-OP2	5.88	128.43	119.60
36	1	2802	A	N3-C4-C5	5.88	130.92	126.80
36	1	2919	A	C6-C5-N7	-5.88	128.18	132.30
36	1	2991	A	C4-C5-N7	5.88	113.64	110.70
36	1	3351	U	N1-C2-N3	-5.88	111.37	114.90
80	6	608	U	C2-N3-C4	-5.88	123.47	127.00
80	6	1410	A	N1-C2-N3	5.88	132.24	129.30
80	6	1421	A	O5'-P-OP2	-5.88	100.41	105.70
85	5	294	U	O5'-P-OP1	5.88	117.76	110.70
85	5	586	C	OP1-P-OP2	5.88	128.43	119.60
85	5	1082	U	N3-C4-C5	-5.88	111.07	114.60
85	5	1545	A	OP1-P-O3'	5.88	118.14	105.20
85	5	1694	U	N1-C2-N3	5.88	118.43	114.90
85	5	2163	C	N3-C4-N4	5.88	122.12	118.00
85	5	2244	A	C5-C6-N1	5.88	120.64	117.70
85	5	3242	G	O5'-P-OP1	-5.88	100.40	105.70
85	5	3368	U	C5-C4-O4	-5.88	122.37	125.90
85	5	3372	A	N9-C4-C5	5.88	108.15	105.80
37	7	37	G	N3-C4-C5	-5.88	125.66	128.60
1	2	1707	U	C2-N3-C4	5.88	130.53	127.00
1	2	1723	A	O5'-P-OP2	-5.88	100.41	105.70
36	1	496	C	N1-C2-N3	-5.88	115.08	119.20
36	1	1332	A	N1-C2-N3	5.88	132.24	129.30
36	1	1414	G	N1-C2-N2	5.88	121.50	116.20
36	1	1535	A	N7-C8-N9	5.88	116.74	113.80
36	1	1595	U	N3-C2-O2	5.88	126.32	122.20
36	1	1663	C	C5-C6-N1	-5.88	118.06	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1893	A	C4-C5-N7	5.88	113.64	110.70
36	1	1901	A	C5-C6-N6	5.88	128.41	123.70
36	1	2538	U	N3-C2-O2	-5.88	118.08	122.20
36	1	2937	G	N9-C4-C5	-5.88	103.05	105.40
36	1	3026	G	C8-N9-C4	-5.88	104.05	106.40
36	1	3387	U	N1-C2-N3	5.88	118.43	114.90
80	6	14	C	C2-N3-C4	-5.88	116.96	119.90
80	6	93	A	C2-N3-C4	-5.88	107.66	110.60
80	6	1097	U	C6-N1-C2	-5.88	117.47	121.00
80	6	1144	U	N3-C4-O4	5.88	123.52	119.40
80	6	1559	A	N9-C4-C5	5.88	108.15	105.80
85	5	364	G	OP1-P-OP2	-5.88	110.78	119.60
85	5	1454	A	OP1-P-OP2	5.88	128.43	119.60
85	5	1781	C	C5-C4-N4	-5.88	116.08	120.20
85	5	2957	G	C6-N1-C2	-5.88	121.57	125.10
1	2	545	A	C5-C6-N1	5.88	120.64	117.70
1	2	582	U	N3-C2-O2	-5.88	118.08	122.20
1	2	1273	U	OP1-P-OP2	5.88	128.42	119.60
36	1	785	G	C5-N7-C8	-5.88	101.36	104.30
36	1	1142	G	C4-C5-C6	5.88	122.33	118.80
36	1	1599	G	N9-C4-C5	-5.88	103.05	105.40
36	1	2220	A	C5-C6-N1	5.88	120.64	117.70
36	1	2249	G	N1-C2-N3	5.88	127.43	123.90
80	6	858	G	C6-C5-N7	-5.88	126.87	130.40
85	5	393	U	C2-N1-C1'	5.88	124.76	117.70
85	5	530	G	C5-N7-C8	-5.88	101.36	104.30
85	5	628	A	N1-C6-N6	-5.88	115.07	118.60
85	5	1352	A	P-O3'-C3'	5.88	126.76	119.70
85	5	1734	G	C2-N3-C4	-5.88	108.96	111.90
85	5	1800	A	OP2-P-O3'	5.88	118.14	105.20
85	5	2828	G	N1-C6-O6	5.88	123.43	119.90
85	5	2997	G	OP1-P-OP2	5.88	128.42	119.60
1	2	437	A	O5'-P-OP1	5.88	117.76	110.70
1	2	805	U	C5-C6-N1	5.88	125.64	122.70
1	2	1117	C	O5'-P-OP1	5.88	117.76	110.70
36	1	1136	A	C4-C5-N7	-5.88	107.76	110.70
36	1	1406	A	C4-C5-N7	5.88	113.64	110.70
36	1	1648	A	C5-N7-C8	5.88	106.84	103.90
36	1	1678	G	OP1-P-O3'	5.88	118.14	105.20
36	1	1824	U	C2-N3-C4	-5.88	123.47	127.00
36	1	2812	C	OP1-P-O3'	5.88	118.14	105.20
37	3	55	A	N1-C2-N3	5.88	132.24	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	32	C	OP1-P-OP2	-5.88	110.78	119.60
85	5	246	U	N3-C4-C5	5.88	118.13	114.60
85	5	277	G	C4-C5-C6	5.88	122.33	118.80
85	5	290	G	O5'-P-OP1	-5.88	100.41	105.70
85	5	3079	U	C5-C4-O4	5.88	129.43	125.90
1	2	165	G	N1-C6-O6	5.88	123.43	119.90
1	2	442	C	OP1-P-O3'	5.88	118.13	105.20
1	2	654	C	C6-N1-C2	-5.88	117.95	120.30
1	2	884	G	O4'-C1'-N9	5.88	112.90	108.20
1	2	1353	U	P-O3'-C3'	5.88	126.75	119.70
36	1	45	A	N1-C2-N3	5.88	132.24	129.30
36	1	357	A	C5-C6-N1	-5.88	114.76	117.70
36	1	509	U	N3-C2-O2	-5.88	118.08	122.20
36	1	606	C	OP1-P-O3'	5.88	118.13	105.20
36	1	768	C	C5-C4-N4	-5.88	116.08	120.20
36	1	771	A	C6-N1-C2	5.88	122.13	118.60
36	1	799	G	C4-C5-N7	-5.88	108.45	110.80
36	1	1114	U	N3-C4-C5	-5.88	111.07	114.60
36	1	2513	U	C5-C6-N1	-5.88	119.76	122.70
36	1	2542	U	C5-C6-N1	5.88	125.64	122.70
36	1	3173	G	N3-C4-C5	-5.88	125.66	128.60
80	6	480	G	C5-N7-C8	5.88	107.24	104.30
80	6	629	U	C5-C6-N1	-5.88	119.76	122.70
80	6	1291	G	N9-C4-C5	5.88	107.75	105.40
80	6	1367	G	C4-C5-N7	5.88	113.15	110.80
85	5	388	G	C8-N9-C4	5.88	108.75	106.40
85	5	886	C	C5-C6-N1	5.88	123.94	121.00
85	5	929	A	C2-N3-C4	5.88	113.54	110.60
85	5	934	G	N9-C4-C5	5.88	107.75	105.40
85	5	1118	C	N3-C4-C5	5.88	124.25	121.90
85	5	2370	G	C8-N9-C4	-5.88	104.05	106.40
85	5	2386	A	C4-C5-C6	5.88	119.94	117.00
1	2	126	A	OP1-P-OP2	5.88	128.41	119.60
1	2	571	G	O5'-P-OP1	-5.88	100.41	105.70
1	2	720	A	N7-C8-N9	-5.88	110.86	113.80
1	2	921	G	C6-C5-N7	-5.88	126.87	130.40
36	1	20	A	N1-C2-N3	5.88	132.24	129.30
36	1	585	A	O5'-P-OP2	-5.88	100.41	105.70
36	1	741	U	C4-C5-C6	5.88	123.23	119.70
36	1	929	A	C5-N7-C8	-5.88	100.96	103.90
36	1	998	A	N1-C6-N6	5.88	122.13	118.60
36	1	1147	G	OP1-P-OP2	-5.88	110.78	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1522	U	N3-C4-C5	5.88	118.13	114.60
36	1	2299	A	N1-C6-N6	-5.88	115.07	118.60
36	1	3201	C	C5-C4-N4	5.88	124.31	120.20
51	M5	162	ARG	NE-CZ-NH2	-5.88	117.36	120.30
80	6	417	A	C4-C5-C6	5.88	119.94	117.00
80	6	466	U	O5'-P-OP2	-5.88	100.41	105.70
80	6	1699	G	C8-N9-C4	5.88	108.75	106.40
85	5	38	U	C6-N1-C2	5.88	124.53	121.00
85	5	813	G	N9-C4-C5	-5.88	103.05	105.40
85	5	960	U	OP2-P-O3'	5.88	118.13	105.20
85	5	1058	U	N1-C2-N3	5.88	118.43	114.90
85	5	1370	G	C2-N3-C4	-5.88	108.96	111.90
85	5	1704	A	N1-C2-N3	5.88	132.24	129.30
85	5	2164	A	C8-N9-C4	-5.88	103.45	105.80
85	5	2251	G	N7-C8-N9	5.88	116.04	113.10
85	5	2647	A	O5'-P-OP1	-5.88	100.41	105.70
37	7	75	G	O4'-C1'-N9	-5.88	103.50	108.20
38	8	133	G	C5-C6-N1	5.88	114.44	111.50
1	2	372	G	C5-C6-N1	-5.88	108.56	111.50
36	1	323	A	C4-C5-N7	-5.88	107.76	110.70
36	1	858	A	N1-C2-N3	5.88	132.24	129.30
36	1	1066	G	N1-C2-N3	5.88	127.42	123.90
36	1	1809	A	C2-N3-C4	-5.88	107.66	110.60
36	1	2184	U	N3-C4-O4	5.88	123.51	119.40
36	1	2230	C	C4-C5-C6	-5.88	114.46	117.40
36	1	2965	U	C2-N1-C1'	5.88	124.75	117.70
36	1	3117	C	N1-C2-O2	-5.88	115.38	118.90
38	4	9	A	N1-C6-N6	-5.88	115.08	118.60
80	6	136	C	N3-C2-O2	5.88	126.01	121.90
80	6	851	U	N3-C2-O2	5.88	126.31	122.20
85	5	349	A	N3-C4-C5	-5.88	122.69	126.80
85	5	1832	C	N3-C2-O2	-5.88	117.79	121.90
1	2	116	U	N1-C2-O2	5.87	126.91	122.80
1	2	387	A	OP1-P-OP2	-5.87	110.79	119.60
1	2	1083	G	C8-N9-C1'	-5.87	119.36	127.00
1	2	1532	C	C4-C5-C6	-5.87	114.46	117.40
36	1	279	U	N3-C4-O4	-5.87	115.29	119.40
36	1	435	C	C5-C4-N4	-5.87	116.09	120.20
36	1	577	C	O5'-P-OP2	-5.87	100.41	105.70
36	1	680	G	C2-N3-C4	-5.87	108.96	111.90
36	1	780	A	N1-C6-N6	-5.87	115.08	118.60
36	1	1698	C	C2-N3-C4	-5.87	116.96	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2701	U	N1-C2-N3	5.87	118.42	114.90
36	1	2947	G	OP1-P-OP2	-5.87	110.79	119.60
56	N0	82	ASP	CB-CG-OD1	-5.87	113.02	118.30
80	6	433	C	C2-N1-C1'	5.87	125.26	118.80
80	6	984	G	N1-C2-N2	5.87	121.49	116.20
80	6	1013	A	C4-C5-N7	5.87	113.64	110.70
80	6	1380	U	C5-C4-O4	5.87	129.42	125.90
85	5	859	G	C8-N9-C4	5.87	108.75	106.40
85	5	1396	C	N3-C4-C5	5.87	124.25	121.90
85	5	1481	A	C6-N1-C2	-5.87	115.08	118.60
85	5	1772	U	N1-C2-O2	-5.87	118.69	122.80
85	5	2907	G	C4-C5-C6	5.87	122.32	118.80
85	5	3218	A	C2-N3-C4	-5.87	107.66	110.60
85	5	3298	C	OP1-P-OP2	-5.87	110.79	119.60
38	8	135	G	N7-C8-N9	-5.87	110.16	113.10
1	2	51	A	O5'-P-OP2	5.87	117.75	110.70
1	2	428	A	C5-C6-N1	5.87	120.64	117.70
1	2	627	C	N1-C2-O2	-5.87	115.38	118.90
1	2	1380	U	C6-N1-C2	5.87	124.52	121.00
1	2	1711	A	C5-C6-N6	5.87	128.40	123.70
36	1	771	A	N3-C4-C5	5.87	130.91	126.80
36	1	860	G	N1-C2-N2	5.87	121.48	116.20
36	1	1793	C	OP1-P-OP2	5.87	128.41	119.60
36	1	2119	A	C6-C5-N7	-5.87	128.19	132.30
36	1	2349	U	N1-C2-O2	-5.87	118.69	122.80
36	1	2819	A	N7-C8-N9	5.87	116.74	113.80
36	1	2968	G	C4-C5-N7	5.87	113.15	110.80
38	4	92	A	N3-C4-N9	-5.87	122.70	127.40
80	6	8	U	OP1-P-OP2	5.87	128.41	119.60
80	6	291	G	N3-C4-C5	-5.87	125.66	128.60
85	5	692	A	C5-C6-N1	-5.87	114.76	117.70
85	5	2129	U	C5-C4-O4	5.87	129.42	125.90
85	5	2215	A	C5-C6-N1	-5.87	114.76	117.70
85	5	2626	A	C4-C5-C6	5.87	119.94	117.00
85	5	3220	G	N3-C4-C5	-5.87	125.66	128.60
1	2	103	A	C2-N3-C4	-5.87	107.67	110.60
36	1	983	A	N7-C8-N9	-5.87	110.86	113.80
36	1	1137	C	N3-C4-C5	5.87	124.25	121.90
36	1	1421	G	C5-C6-N1	5.87	114.44	111.50
36	1	2303	A	N9-C4-C5	-5.87	103.45	105.80
36	1	2916	U	N3-C4-O4	-5.87	115.29	119.40
36	1	2971	A	C6-N1-C2	-5.87	115.08	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3268	A	C6-C5-N7	-5.87	128.19	132.30
80	6	1108	G	C2-N3-C4	-5.87	108.97	111.90
85	5	258	G	C2-N3-C4	-5.87	108.97	111.90
85	5	2708	C	C6-N1-C2	-5.87	117.95	120.30
85	5	2743	A	OP2-P-O3'	5.87	118.11	105.20
85	5	3004	C	N3-C4-N4	5.87	122.11	118.00
85	5	3200	G	C8-N9-C1'	5.87	134.63	127.00
1	2	1100	U	N3-C4-C5	-5.87	111.08	114.60
1	2	1102	G	N3-C2-N2	5.87	124.01	119.90
36	1	692	A	C6-N1-C2	-5.87	115.08	118.60
36	1	762	U	N3-C4-C5	-5.87	111.08	114.60
36	1	1329	U	N3-C4-C5	-5.87	111.08	114.60
36	1	1412	G	C8-N9-C4	-5.87	104.05	106.40
36	1	1508	C	OP1-P-OP2	-5.87	110.80	119.60
36	1	2530	G	N3-C4-C5	-5.87	125.67	128.60
36	1	2592	G	N1-C6-O6	5.87	123.42	119.90
36	1	2848	G	N7-C8-N9	-5.87	110.17	113.10
36	1	3129	A	C2-N3-C4	-5.87	107.67	110.60
36	1	3133	C	N3-C2-O2	-5.87	117.79	121.90
36	1	3283	U	C2-N1-C1'	-5.87	110.66	117.70
36	1	3285	C	N1-C2-N3	-5.87	115.09	119.20
38	4	38	U	C4-C5-C6	5.87	123.22	119.70
38	4	124	G	C8-N9-C4	-5.87	104.05	106.40
52	M6	88	VAL	CG1-CB-CG2	-5.87	101.51	110.90
80	6	1016	C	N3-C4-C5	-5.87	119.55	121.90
85	5	946	U	N3-C2-O2	5.87	126.31	122.20
85	5	1714	A	C5-N7-C8	-5.87	100.97	103.90
85	5	2093	A	N3-C4-C5	5.87	130.91	126.80
85	5	2558	U	N3-C2-O2	-5.87	118.09	122.20
37	7	110	G	C4-C5-N7	5.87	113.15	110.80
38	8	34	U	O5'-P-OP1	-5.87	100.42	105.70
1	2	175	G	N1-C6-O6	-5.87	116.38	119.90
1	2	386	G	C6-C5-N7	5.87	133.92	130.40
1	2	1413	U	O5'-P-OP2	-5.87	100.42	105.70
1	2	1611	U	C6-N1-C2	-5.87	117.48	121.00
36	1	43	A	N7-C8-N9	-5.87	110.87	113.80
36	1	2166	A	C8-N9-C4	-5.87	103.45	105.80
80	6	926	A	OP2-P-O3'	5.87	118.11	105.20
1	2	362	G	C5-C6-N1	-5.87	108.57	111.50
1	2	817	G	C8-N9-C4	-5.87	104.05	106.40
1	2	975	A	C8-N9-C4	-5.87	103.45	105.80
36	1	310	U	N3-C4-O4	-5.87	115.29	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	576	C	C2-N3-C4	-5.87	116.97	119.90
36	1	724	U	C6-N1-C2	5.87	124.52	121.00
36	1	992	A	N7-C8-N9	5.87	116.73	113.80
36	1	1452	A	N3-C4-C5	5.87	130.91	126.80
36	1	1636	U	C5-C4-O4	-5.87	122.38	125.90
36	1	1856	C	C6-N1-C2	5.87	122.65	120.30
36	1	2377	G	N9-C4-C5	5.87	107.75	105.40
36	1	2386	A	N1-C6-N6	5.87	122.12	118.60
36	1	2591	A	C6-C5-N7	-5.87	128.19	132.30
36	1	3084	C	C6-N1-C2	-5.87	117.95	120.30
37	3	16	U	N3-C2-O2	-5.87	118.09	122.20
80	6	269	G	N7-C8-N9	-5.87	110.17	113.10
80	6	814	A	N7-C8-N9	-5.87	110.87	113.80
80	6	1156	C	N3-C4-N4	5.87	122.11	118.00
85	5	955	U	N3-C4-O4	-5.87	115.29	119.40
85	5	1211	U	N1-C2-N3	-5.87	111.38	114.90
85	5	1451	C	C2-N3-C4	-5.87	116.97	119.90
85	5	1574	C	O5'-P-OP1	-5.87	100.42	105.70
85	5	1867	A	C8-N9-C4	-5.87	103.45	105.80
85	5	1907	C	N3-C2-O2	-5.87	117.79	121.90
85	5	2184	U	OP1-P-OP2	-5.87	110.80	119.60
85	5	2375	G	N1-C6-O6	-5.87	116.38	119.90
85	5	2507	C	C4-C5-C6	-5.87	114.47	117.40
1	2	533	U	N3-C4-C5	-5.86	111.08	114.60
1	2	750	U	N1-C2-O2	5.86	126.90	122.80
1	2	798	G	C5-C6-O6	-5.86	125.08	128.60
1	2	1519	G	C2-N3-C4	5.86	114.83	111.90
1	2	1572	C	N3-C2-O2	-5.86	117.80	121.90
1	2	1637	G	N1-C2-N2	-5.86	110.92	116.20
36	1	237	G	N7-C8-N9	-5.86	110.17	113.10
36	1	415	G	C4-C5-N7	5.86	113.14	110.80
36	1	715	A	C4-C5-C6	5.86	119.93	117.00
36	1	952	A	C6-N1-C2	-5.86	115.08	118.60
36	1	1095	U	N3-C4-O4	-5.86	115.30	119.40
36	1	1183	C	N1-C2-O2	5.86	122.42	118.90
36	1	2363	A	N9-C4-C5	5.86	108.15	105.80
36	1	2682	C	N1-C2-N3	5.86	123.31	119.20
36	1	2929	C	O5'-P-OP2	5.86	117.73	110.70
54	M8	38	ARG	NE-CZ-NH2	-5.86	117.37	120.30
80	6	126	A	C5-C6-N6	5.86	128.39	123.70
80	6	307	G	C5-C6-O6	5.86	132.12	128.60
80	6	837	G	N1-C2-N3	-5.86	120.38	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	931	C	O5'-P-OP2	-5.86	100.42	105.70
80	6	1774	G	N1-C2-N3	5.86	127.42	123.90
85	5	225	C	O4'-C1'-N1	5.86	112.89	108.20
85	5	305	U	O5'-P-OP2	5.86	117.74	110.70
85	5	644	G	C5-N7-C8	5.86	107.23	104.30
85	5	763	G	C5-C6-N1	-5.86	108.57	111.50
85	5	1020	G	N7-C8-N9	5.86	116.03	113.10
85	5	1466	G	C5-N7-C8	5.86	107.23	104.30
85	5	2399	A	N3-C4-N9	-5.86	122.71	127.40
85	5	2697	A	C5-C6-N1	5.86	120.63	117.70
85	5	2778	G	N7-C8-N9	-5.86	110.17	113.10
85	5	3391	A	N9-C4-C5	-5.86	103.45	105.80
1	2	1314	A	C5-C6-N6	-5.86	119.01	123.70
36	1	198	A	O4'-C1'-N9	5.86	112.89	108.20
36	1	854	G	C6-C5-N7	-5.86	126.88	130.40
36	1	1118	C	N3-C2-O2	-5.86	117.80	121.90
36	1	1552	G	N7-C8-N9	5.86	116.03	113.10
36	1	2582	C	C2-N3-C4	5.86	122.83	119.90
73	O7	64	MET	CG-SD-CE	-5.86	90.82	100.20
80	6	168	A	N7-C8-N9	5.86	116.73	113.80
80	6	1588	G	N3-C4-C5	5.86	131.53	128.60
80	6	1683	C	N1-C2-O2	5.86	122.42	118.90
85	5	569	A	C6-N1-C2	-5.86	115.08	118.60
85	5	1855	U	OP1-P-O3'	5.86	118.10	105.20
85	5	2956	A	C2'-C3'-O3'	5.86	123.08	113.70
85	5	3254	G	C5-C6-O6	-5.86	125.08	128.60
85	5	3283	U	N3-C4-O4	5.86	123.50	119.40
1	2	19	A	N1-C2-N3	5.86	132.23	129.30
1	2	1267	C	C2-N3-C4	-5.86	116.97	119.90
36	1	347	G	C5-N7-C8	-5.86	101.37	104.30
36	1	424	G	N1-C2-N2	-5.86	110.93	116.20
36	1	581	U	O4'-C1'-N1	5.86	112.89	108.20
36	1	614	C	C4-C5-C6	-5.86	114.47	117.40
36	1	900	G	N9-C4-C5	5.86	107.74	105.40
36	1	991	G	C5-N7-C8	5.86	107.23	104.30
36	1	1044	U	N3-C4-O4	5.86	123.50	119.40
36	1	1492	G	C5-C6-O6	5.86	132.12	128.60
36	1	1500	G	C5-N7-C8	-5.86	101.37	104.30
36	1	1503	A	C2-N3-C4	-5.86	107.67	110.60
36	1	2395	G	N7-C8-N9	5.86	116.03	113.10
36	1	2660	G	OP1-P-OP2	-5.86	110.81	119.60
36	1	3369	G	C4-C5-N7	5.86	113.14	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	411	C	N1-C2-O2	5.86	122.42	118.90
80	6	689	G	C5-C6-O6	5.86	132.12	128.60
85	5	413	U	C4-C5-C6	5.86	123.22	119.70
85	5	418	A	O5'-P-OP1	5.86	117.73	110.70
85	5	593	C	OP1-P-OP2	5.86	128.39	119.60
85	5	748	U	O4'-C1'-N1	5.86	112.89	108.20
85	5	779	G	C6-C5-N7	-5.86	126.88	130.40
85	5	1112	A	OP1-P-OP2	-5.86	110.81	119.60
85	5	1422	G	C6-N1-C2	-5.86	121.58	125.10
85	5	1715	A	C5-C6-N1	5.86	120.63	117.70
85	5	1922	A	C6-C5-N7	-5.86	128.20	132.30
85	5	2253	G	N1-C6-O6	5.86	123.42	119.90
85	5	2333	C	C6-N1-C2	5.86	122.64	120.30
85	5	2676	A	C5-N7-C8	-5.86	100.97	103.90
85	5	2826	U	P-O3'-C3'	-5.86	112.67	119.70
1	2	372	G	OP2-P-O3'	5.86	118.09	105.20
1	2	1651	G	N3-C2-N2	-5.86	115.80	119.90
36	1	4	U	N3-C4-O4	5.86	123.50	119.40
36	1	204	A	N3-C4-C5	5.86	130.90	126.80
36	1	311	C	OP1-P-O3'	5.86	118.09	105.20
36	1	1666	G	O5'-P-OP2	5.86	117.73	110.70
80	6	981	U	OP2-P-O3'	-5.86	92.31	105.20
80	6	1144	U	N1-C2-N3	5.86	118.42	114.90
85	5	615	U	C5-C6-N1	5.86	125.63	122.70
85	5	2617	U	C5-C4-O4	5.86	129.41	125.90
1	2	63	G	C5-C6-O6	5.86	132.12	128.60
1	2	723	A	C8-N9-C4	5.86	108.14	105.80
1	2	839	A	N1-C2-N3	5.86	132.23	129.30
1	2	1551	C	P-O3'-C3'	5.86	126.73	119.70
36	1	352	A	C4-C5-N7	5.86	113.63	110.70
36	1	687	U	N1-C2-N3	5.86	118.42	114.90
36	1	1509	A	OP1-P-O3'	5.86	118.09	105.20
36	1	1776	G	N7-C8-N9	5.86	116.03	113.10
36	1	1794	G	C5-N7-C8	-5.86	101.37	104.30
36	1	2130	G	N1-C2-N2	-5.86	110.93	116.20
36	1	2552	C	C4-C5-C6	5.86	120.33	117.40
36	1	2682	C	N3-C4-N4	-5.86	113.90	118.00
36	1	2724	U	O4'-C1'-N1	-5.86	103.51	108.20
36	1	2830	G	C4-N9-C1'	5.86	134.11	126.50
36	1	3011	A	O5'-P-OP2	-5.86	100.43	105.70
80	6	11	A	C5-N7-C8	5.86	106.83	103.90
80	6	613	G	C8-N9-C4	-5.86	104.06	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	406	G	N7-C8-N9	5.86	116.03	113.10
85	5	564	G	C4-C5-N7	5.86	113.14	110.80
85	5	730	C	C5-C6-N1	-5.86	118.07	121.00
85	5	939	U	OP2-P-O3'	5.86	118.08	105.20
85	5	1259	A	C6-N1-C2	-5.86	115.09	118.60
85	5	1394	A	OP1-P-O3'	-5.86	92.32	105.20
85	5	1461	A	C4-C5-N7	-5.86	107.77	110.70
85	5	1573	G	N1-C6-O6	-5.86	116.39	119.90
85	5	2203	U	O5'-P-OP1	-5.86	100.43	105.70
85	5	2296	A	O5'-P-OP2	5.86	117.73	110.70
85	5	3153	U	C6-N1-C2	5.86	124.51	121.00
1	2	1119	U	C5-C4-O4	5.86	129.41	125.90
1	2	1161	G	OP1-P-OP2	-5.86	110.82	119.60
1	2	1774	A	C5-C6-N6	-5.86	119.02	123.70
36	1	248	U	C5-C6-N1	5.86	125.63	122.70
36	1	289	A	C6-C5-N7	-5.86	128.20	132.30
36	1	643	U	C2-N1-C1'	5.86	124.73	117.70
36	1	718	G	N3-C4-C5	5.86	131.53	128.60
36	1	941	G	C5-C6-O6	-5.86	125.09	128.60
36	1	1143	A	C8-N9-C4	5.86	108.14	105.80
36	1	1338	C	C5-C6-N1	5.86	123.93	121.00
36	1	1380	G	C4-C5-C6	5.86	122.31	118.80
36	1	1380	G	N3-C4-N9	-5.86	122.49	126.00
36	1	1393	A	C4-C5-N7	-5.86	107.77	110.70
36	1	1510	G	OP1-P-OP2	-5.86	110.82	119.60
36	1	2739	A	O5'-P-OP2	-5.86	100.43	105.70
36	1	3200	G	OP1-P-OP2	5.86	128.38	119.60
80	6	35	U	C2-N3-C4	-5.86	123.49	127.00
80	6	143	G	N1-C2-N2	-5.86	110.93	116.20
85	5	214	G	O5'-P-OP1	5.86	117.73	110.70
85	5	865	U	OP1-P-OP2	-5.86	110.82	119.60
85	5	878	G	N3-C2-N2	5.86	124.00	119.90
85	5	963	G	N3-C2-N2	5.86	124.00	119.90
85	5	1141	C	C5-C6-N1	-5.86	118.07	121.00
85	5	1766	G	C5-C6-N1	5.86	114.43	111.50
85	5	2201	G	C4-C5-N7	-5.86	108.46	110.80
85	5	2270	A	C6-C5-N7	-5.86	128.20	132.30
85	5	2317	A	N7-C8-N9	-5.86	110.87	113.80
85	5	2380	U	N3-C4-C5	-5.86	111.09	114.60
85	5	2676	A	C8-N9-C4	-5.86	103.46	105.80
85	5	3217	C	O4'-C1'-N1	5.86	112.89	108.20
38	8	63	G	C4-C5-C6	5.86	122.31	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	114	G	O5'-P-OP1	-5.86	100.43	105.70
1	2	446	A	N9-C4-C5	5.85	108.14	105.80
1	2	553	G	C8-N9-C4	-5.85	104.06	106.40
1	2	851	G	N1-C6-O6	5.85	123.41	119.90
36	1	224	C	N1-C2-O2	-5.85	115.39	118.90
36	1	515	C	O5'-P-OP1	5.85	117.72	110.70
36	1	954	U	C5-C6-N1	-5.85	119.77	122.70
36	1	1399	A	N1-C6-N6	5.85	122.11	118.60
36	1	2323	G	N1-C2-N3	5.85	127.41	123.90
36	1	3362	A	C4-C5-C6	5.85	119.93	117.00
80	6	240	U	P-O3'-C3'	5.85	126.72	119.70
80	6	778	G	N3-C2-N2	5.85	124.00	119.90
85	5	229	G	C5-C6-N1	-5.85	108.57	111.50
85	5	282	G	N1-C6-O6	-5.85	116.39	119.90
85	5	500	C	N3-C4-C5	5.85	124.24	121.90
85	5	1614	C	N1-C2-O2	-5.85	115.39	118.90
85	5	1648	A	N1-C2-N3	5.85	132.23	129.30
85	5	1804	A	N1-C6-N6	5.85	122.11	118.60
85	5	1843	C	C5-C6-N1	5.85	123.93	121.00
64	n8	132	LYS	CD-CE-NZ	5.85	125.17	111.70
1	2	1082	U	C6-N1-C2	-5.85	117.49	121.00
1	2	1183	G	OP1-P-OP2	5.85	128.38	119.60
1	2	1408	A	C5-C6-N1	5.85	120.63	117.70
1	2	1517	G	N1-C2-N2	-5.85	110.93	116.20
36	1	630	A	OP1-P-OP2	-5.85	110.82	119.60
36	1	871	U	C5-C4-O4	-5.85	122.39	125.90
36	1	2998	U	O5'-P-OP1	-5.85	100.43	105.70
37	3	12	U	O5'-P-OP2	-5.85	100.43	105.70
80	6	299	A	C4-C5-N7	5.85	113.63	110.70
80	6	314	C	C4-C5-C6	5.85	120.33	117.40
80	6	1293	U	C6-N1-C2	-5.85	117.49	121.00
85	5	11	A	N7-C8-N9	5.85	116.73	113.80
85	5	375	A	N3-C4-N9	-5.85	122.72	127.40
85	5	837	A	C6-N1-C2	-5.85	115.09	118.60
85	5	1117	G	C5-C6-O6	-5.85	125.09	128.60
85	5	1436	U	C2-N3-C4	-5.85	123.49	127.00
85	5	1655	G	C4-C5-N7	-5.85	108.46	110.80
85	5	1886	A	N7-C8-N9	5.85	116.73	113.80
85	5	1906	G	C5-C6-N1	5.85	114.43	111.50
85	5	2209	U	O5'-P-OP2	-5.85	100.43	105.70
85	5	2311	G	O5'-P-OP1	-5.85	100.43	105.70
85	5	3122	A	C8-N9-C4	5.85	108.14	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3200	G	N3-C2-N2	-5.85	115.80	119.90
37	7	89	G	N1-C2-N2	-5.85	110.93	116.20
37	7	90	U	C5-C4-O4	-5.85	122.39	125.90
1	2	278	U	N3-C4-C5	-5.85	111.09	114.60
36	1	198	A	C4-C5-N7	5.85	113.63	110.70
36	1	514	G	C6-C5-N7	-5.85	126.89	130.40
36	1	1902	G	O4'-C1'-N9	-5.85	103.52	108.20
37	3	99	G	N3-C2-N2	5.85	124.00	119.90
80	6	872	G	N3-C2-N2	-5.85	115.81	119.90
85	5	26	A	C4-C5-N7	-5.85	107.78	110.70
85	5	53	G	N9-C4-C5	-5.85	103.06	105.40
85	5	517	G	C5-C6-N1	5.85	114.43	111.50
85	5	761	A	N1-C2-N3	-5.85	126.37	129.30
85	5	2609	A	O5'-P-OP2	-5.85	100.43	105.70
85	5	3357	U	N1-C2-O2	5.85	126.90	122.80
38	8	11	C	C5-C6-N1	5.85	123.93	121.00
1	2	992	U	C5-C6-N1	-5.85	119.78	122.70
1	2	1147	G	C5-C6-O6	-5.85	125.09	128.60
36	1	418	A	OP1-P-O3'	-5.85	92.33	105.20
36	1	812	G	C6-N1-C2	-5.85	121.59	125.10
36	1	2863	G	C2-N3-C4	-5.85	108.97	111.90
80	6	16	G	OP1-P-OP2	-5.85	110.83	119.60
80	6	18	C	C5-C4-N4	-5.85	116.11	120.20
80	6	307	G	C5-C6-N1	-5.85	108.58	111.50
80	6	365	G	O4'-C1'-N9	-5.85	103.52	108.20
80	6	1379	C	N3-C2-O2	-5.85	117.81	121.90
85	5	299	G	N9-C4-C5	5.85	107.74	105.40
85	5	903	U	N3-C4-O4	-5.85	115.31	119.40
85	5	947	G	N3-C4-N9	-5.85	122.49	126.00
85	5	965	A	OP2-P-O3'	5.85	118.07	105.20
85	5	1101	G	N3-C4-N9	5.85	129.51	126.00
85	5	2429	G	N1-C2-N2	-5.85	110.94	116.20
85	5	2806	U	C6-N1-C2	5.85	124.51	121.00
38	8	44	A	C8-N9-C4	-5.85	103.46	105.80
38	8	67	U	OP1-P-O3'	5.85	118.07	105.20
38	8	100	U	C6-N1-C2	-5.85	117.49	121.00
1	2	225	A	C8-N9-C4	5.85	108.14	105.80
36	1	24	G	C6-C5-N7	-5.85	126.89	130.40
36	1	136	G	N1-C6-O6	-5.85	116.39	119.90
36	1	207	U	C4-C5-C6	-5.85	116.19	119.70
36	1	340	C	O5'-P-OP1	5.85	117.72	110.70
36	1	1814	A	C8-N9-C4	5.85	108.14	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2277	C	C6-N1-C2	-5.85	117.96	120.30
36	1	2757	U	N3-C4-O4	5.85	123.49	119.40
36	1	2951	G	C5-C6-O6	5.85	132.11	128.60
36	1	2995	A	N7-C8-N9	-5.85	110.88	113.80
37	3	2	G	OP1-P-O3'	5.85	118.06	105.20
38	4	113	U	C5-C4-O4	5.85	129.41	125.90
80	6	387	A	C5-C6-N6	5.85	128.38	123.70
80	6	475	A	N7-C8-N9	5.85	116.72	113.80
80	6	1073	G	N1-C2-N3	5.85	127.41	123.90
80	6	1440	C	C6-N1-C2	-5.85	117.96	120.30
80	6	1491	U	O5'-P-OP1	-5.85	100.44	105.70
85	5	64	G	C4-C5-N7	5.85	113.14	110.80
85	5	663	C	N3-C4-C5	-5.85	119.56	121.90
85	5	1452	A	N3-C4-C5	-5.85	122.71	126.80
85	5	1542	G	C8-N9-C1'	5.85	134.60	127.00
85	5	1753	G	C5-C6-N1	-5.85	108.58	111.50
85	5	3375	A	C4-C5-C6	5.85	119.92	117.00
1	2	961	A	N1-C6-N6	-5.85	115.09	118.60
1	2	1565	U	C6-N1-C2	5.85	124.51	121.00
36	1	19	U	OP2-P-O3'	5.85	118.06	105.20
36	1	2861	U	N3-C2-O2	-5.85	118.11	122.20
36	1	2894	C	N3-C2-O2	-5.85	117.81	121.90
36	1	3015	G	N3-C4-C5	5.85	131.52	128.60
38	4	58	G	N3-C2-N2	5.85	123.99	119.90
80	6	738	G	C5-C6-O6	5.85	132.11	128.60
85	5	213	A	N1-C6-N6	-5.85	115.09	118.60
85	5	1365	G	O5'-P-OP2	5.85	117.72	110.70
85	5	1850	A	N7-C8-N9	5.85	116.72	113.80
37	7	76	A	C4-C5-N7	5.85	113.62	110.70
1	2	959	G	C5-C6-O6	5.84	132.11	128.60
36	1	215	G	N9-C4-C5	5.84	107.74	105.40
36	1	1292	C	N3-C2-O2	5.84	125.99	121.90
36	1	1316	C	C5-C6-N1	-5.84	118.08	121.00
36	1	1355	A	N1-C6-N6	-5.84	115.09	118.60
36	1	2669	G	N3-C4-C5	5.84	131.52	128.60
36	1	2717	U	C2-N3-C4	-5.84	123.49	127.00
36	1	2742	C	N1-C2-O2	-5.84	115.39	118.90
36	1	2910	A	OP2-P-O3'	5.84	118.06	105.20
36	1	3016	A	C6-C5-N7	-5.84	128.21	132.30
36	1	3288	G	N3-C4-C5	5.84	131.52	128.60
36	1	3327	G	C4-C5-N7	-5.84	108.46	110.80
80	6	81	G	C2-N3-C4	-5.84	108.98	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1284	C	O5'-P-OP1	-5.84	100.44	105.70
80	6	1645	G	OP1-P-OP2	-5.84	110.83	119.60
85	5	8	C	N3-C4-C5	-5.84	119.56	121.90
85	5	24	G	OP1-P-OP2	5.84	128.37	119.60
85	5	78	U	N3-C4-C5	-5.84	111.09	114.60
85	5	492	U	OP1-P-OP2	5.84	128.37	119.60
85	5	1140	G	N3-C2-N2	5.84	123.99	119.90
85	5	1865	A	O5'-P-OP1	5.84	117.71	110.70
85	5	2656	A	C4-C5-N7	5.84	113.62	110.70
85	5	2796	G	C5-N7-C8	5.84	107.22	104.30
85	5	3110	C	C2-N1-C1'	-5.84	112.37	118.80
36	1	895	A	N1-C2-N3	5.84	132.22	129.30
36	1	1692	U	C5-C6-N1	5.84	125.62	122.70
36	1	3267	A	C6-N1-C2	-5.84	115.09	118.60
80	6	260	U	OP1-P-OP2	5.84	128.37	119.60
80	6	289	U	C4-C5-C6	5.84	123.21	119.70
80	6	654	C	N1-C2-O2	5.84	122.41	118.90
85	5	76	G	C4-C5-C6	5.84	122.31	118.80
85	5	1395	G	N3-C2-N2	-5.84	115.81	119.90
54	m8	104	LEU	CA-CB-CG	5.84	128.74	115.30
1	2	1180	C	C6-N1-C2	-5.84	117.96	120.30
36	1	356	C	N3-C4-C5	-5.84	119.56	121.90
36	1	697	A	C5-N7-C8	-5.84	100.98	103.90
36	1	939	U	N3-C4-O4	5.84	123.49	119.40
36	1	1088	U	N3-C2-O2	5.84	126.29	122.20
36	1	1301	A	C6-N1-C2	5.84	122.11	118.60
36	1	1392	G	C5-C6-O6	-5.84	125.09	128.60
36	1	1786	G	N7-C8-N9	5.84	116.02	113.10
36	1	1932	A	C6-N1-C2	-5.84	115.09	118.60
36	1	2437	G	C6-N1-C2	-5.84	121.59	125.10
36	1	3188	G	N1-C2-N2	5.84	121.46	116.20
37	3	71	G	N3-C2-N2	5.84	123.99	119.90
38	4	147	U	C5-C6-N1	5.84	125.62	122.70
41	L4	107	ARG	NE-CZ-NH2	5.84	123.22	120.30
80	6	603	U	N3-C4-O4	5.84	123.49	119.40
80	6	1025	A	C4-C5-C6	5.84	119.92	117.00
80	6	1417	A	O5'-P-OP1	-5.84	100.44	105.70
80	6	1549	C	C5-C6-N1	5.84	123.92	121.00
80	6	1601	G	C4-C5-N7	5.84	113.14	110.80
85	5	144	A	OP2-P-O3'	5.84	118.05	105.20
85	5	198	A	N3-C4-C5	5.84	130.89	126.80
85	5	310	U	OP1-P-OP2	-5.84	110.84	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	655	C	N3-C4-N4	5.84	122.09	118.00
85	5	707	U	C2-N3-C4	-5.84	123.50	127.00
85	5	783	A	N9-C4-C5	-5.84	103.46	105.80
85	5	1192	C	N3-C4-C5	5.84	124.24	121.90
85	5	1446	A	C5-C6-N6	5.84	128.37	123.70
85	5	1544	G	N3-C2-N2	-5.84	115.81	119.90
85	5	2134	G	C5-C6-N1	-5.84	108.58	111.50
85	5	2188	A	N3-C4-N9	-5.84	122.73	127.40
85	5	2204	C	N3-C2-O2	-5.84	117.81	121.90
85	5	2281	A	O4'-C1'-N9	5.84	112.87	108.20
85	5	2717	U	C2-N1-C1'	-5.84	110.69	117.70
85	5	3058	U	N3-C4-C5	-5.84	111.09	114.60
85	5	3322	A	N1-C2-N3	5.84	132.22	129.30
85	5	3342	A	C4-C5-C6	5.84	119.92	117.00
37	7	18	C	N1-C2-O2	-5.84	115.39	118.90
38	8	27	U	N1-C2-N3	-5.84	111.39	114.90
71	o5	105	ARG	NE-CZ-NH1	5.84	123.22	120.30
1	2	275	C	N1-C2-N3	-5.84	115.11	119.20
1	2	365	G	N7-C8-N9	5.84	116.02	113.10
1	2	787	A	O5'-P-OP2	-5.84	100.44	105.70
1	2	803	U	C4-C5-C6	-5.84	116.20	119.70
1	2	1470	A	N1-C6-N6	-5.84	115.10	118.60
1	2	1781	U	N1-C2-O2	5.84	126.89	122.80
36	1	230	U	C4-C5-C6	5.84	123.20	119.70
36	1	248	U	C2-N3-C4	5.84	130.50	127.00
36	1	321	C	C2-N3-C4	-5.84	116.98	119.90
36	1	784	A	C4-C5-N7	-5.84	107.78	110.70
36	1	1520	G	C5-N7-C8	5.84	107.22	104.30
36	1	1655	G	N1-C2-N3	5.84	127.40	123.90
36	1	2356	A	C5-C6-N1	-5.84	114.78	117.70
36	1	2902	A	OP1-P-OP2	5.84	128.36	119.60
36	1	3364	C	O5'-P-OP1	-5.84	100.44	105.70
37	3	41	G	C5-C6-O6	-5.84	125.10	128.60
80	6	31	C	C5-C4-N4	5.84	124.29	120.20
80	6	473	A	O5'-P-OP1	5.84	117.71	110.70
80	6	972	G	C6-C5-N7	-5.84	126.90	130.40
85	5	732	C	C6-N1-C2	5.84	122.64	120.30
85	5	943	U	OP1-P-OP2	5.84	128.36	119.60
38	8	24	G	C6-C5-N7	5.84	133.90	130.40
38	8	32	C	O4'-C1'-N1	5.84	112.87	108.20
1	2	913	A	N1-C6-N6	5.84	122.10	118.60
36	1	99	A	C5-C6-N1	5.84	120.62	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	608	A	C4-C5-N7	5.84	113.62	110.70
36	1	1354	G	C5-C6-N1	5.84	114.42	111.50
36	1	1408	G	C8-N9-C4	5.84	108.73	106.40
36	1	1559	A	C8-N9-C4	-5.84	103.47	105.80
36	1	3048	A	C5-C6-N1	-5.84	114.78	117.70
36	1	3074	G	C5-C6-O6	5.84	132.10	128.60
80	6	421	A	N1-C6-N6	5.84	122.10	118.60
85	5	1513	G	C4-C5-C6	5.84	122.30	118.80
85	5	1521	G	C2-N3-C4	5.84	114.82	111.90
85	5	1589	A	N9-C1'-C2'	5.84	121.59	114.00
85	5	3168	A	C5-C6-N1	-5.84	114.78	117.70
1	2	508	U	N1-C2-O2	-5.84	118.71	122.80
1	2	607	G	C8-N9-C4	-5.84	104.07	106.40
36	1	158	G	N1-C6-O6	5.84	123.40	119.90
36	1	268	A	OP1-P-OP2	-5.84	110.84	119.60
36	1	370	U	C2-N3-C4	-5.84	123.50	127.00
36	1	1348	U	N3-C4-C5	5.84	118.10	114.60
36	1	1476	G	C4-C5-N7	-5.84	108.47	110.80
36	1	2341	A	N1-C2-N3	5.84	132.22	129.30
38	4	22	U	N1-C2-N3	5.84	118.40	114.90
38	4	73	U	O5'-P-OP2	-5.84	100.45	105.70
80	6	66	U	N1-C2-O2	-5.84	118.71	122.80
80	6	101	U	C6-N1-C2	-5.84	117.50	121.00
80	6	858	G	N1-C2-N2	-5.84	110.95	116.20
80	6	1401	A	C8-N9-C4	-5.84	103.47	105.80
85	5	672	A	C4-C5-N7	5.84	113.62	110.70
85	5	692	A	C5-C6-N6	-5.84	119.03	123.70
85	5	1525	G	C8-N9-C4	-5.84	104.07	106.40
85	5	2168	A	O5'-P-OP2	-5.84	100.45	105.70
85	5	2234	G	C6-C5-N7	-5.84	126.90	130.40
85	5	2753	G	O5'-P-OP1	-5.84	100.45	105.70
85	5	3034	C	N1-C2-N3	5.84	123.28	119.20
85	5	3186	A	O5'-P-OP2	-5.84	100.45	105.70
1	2	69	G	OP2-P-O3'	5.83	118.04	105.20
1	2	1587	U	N3-C4-O4	5.83	123.48	119.40
36	1	218	G	C6-C5-N7	-5.83	126.90	130.40
36	1	333	G	OP2-P-O3'	5.83	118.04	105.20
85	5	18	G	C2-N3-C4	-5.83	108.98	111.90
85	5	528	U	N1-C2-O2	5.83	126.88	122.80
85	5	735	A	N1-C6-N6	5.83	122.10	118.60
85	5	1881	A	OP1-P-OP2	5.83	128.35	119.60
85	5	2691	A	C6-C5-N7	-5.83	128.22	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	295	A	C4-C5-N7	5.83	113.62	110.70
36	1	686	G	C4-C5-N7	-5.83	108.47	110.80
36	1	1465	A	N7-C8-N9	-5.83	110.88	113.80
36	1	2727	A	N7-C8-N9	-5.83	110.88	113.80
36	1	2751	G	C5-C6-N1	-5.83	108.58	111.50
38	4	10	A	C4-C5-C6	5.83	119.92	117.00
38	4	26	U	O4'-C1'-N1	-5.83	103.53	108.20
80	6	611	U	C6-N1-C2	5.83	124.50	121.00
80	6	1597	A	C4-C5-C6	5.83	119.92	117.00
80	6	1738	U	C5-C4-O4	5.83	129.40	125.90
80	6	1764	C	N3-C4-C5	5.83	124.23	121.90
85	5	1057	A	P-O3'-C3'	-5.83	112.70	119.70
85	5	1670	C	N1-C2-O2	5.83	122.40	118.90
85	5	1777	U	C2-N3-C4	5.83	130.50	127.00
85	5	2552	C	C5-C6-N1	5.83	123.92	121.00
85	5	2775	U	OP1-P-O3'	5.83	118.03	105.20
85	5	3127	A	N1-C6-N6	-5.83	115.10	118.60
91	p	74	C	OP1-P-O3'	5.83	118.03	105.20
1	2	718	C	OP1-P-OP2	-5.83	110.85	119.60
1	2	1528	A	C4-C5-N7	5.83	113.61	110.70
1	2	1575	A	OP1-P-OP2	-5.83	110.85	119.60
36	1	234	G	C5-C6-O6	-5.83	125.10	128.60
36	1	534	U	N3-C4-O4	-5.83	115.32	119.40
36	1	1083	G	C5-C6-N1	5.83	114.42	111.50
36	1	1093	A	N1-C6-N6	5.83	122.10	118.60
36	1	1575	A	C8-N9-C4	-5.83	103.47	105.80
36	1	1811	G	C4-C5-N7	-5.83	108.47	110.80
36	1	1862	U	C6-N1-C2	-5.83	117.50	121.00
36	1	2597	U	N1-C2-N3	5.83	118.40	114.90
36	1	3020	U	OP1-P-O3'	5.83	118.03	105.20
36	1	3318	G	N9-C4-C5	5.83	107.73	105.40
36	1	3366	G	N1-C2-N2	-5.83	110.95	116.20
38	4	50	C	C2-N3-C4	-5.83	116.98	119.90
80	6	151	G	N1-C2-N2	5.83	121.45	116.20
80	6	652	G	N1-C2-N2	5.83	121.45	116.20
80	6	987	G	C4-C5-C6	-5.83	115.30	118.80
80	6	1123	C	N3-C2-O2	5.83	125.98	121.90
85	5	96	G	N9-C4-C5	-5.83	103.07	105.40
85	5	136	G	C5-N7-C8	-5.83	101.38	104.30
85	5	781	G	N1-C2-N3	5.83	127.40	123.90
85	5	1172	G	N9-C4-C5	-5.83	103.07	105.40
85	5	2675	C	N3-C2-O2	5.83	125.98	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2756	C	OP2-P-O3'	5.83	118.03	105.20
85	5	2766	U	C5-C4-O4	-5.83	122.40	125.90
85	5	3065	G	N3-C4-C5	5.83	131.51	128.60
85	5	3197	G	C5-C6-N1	-5.83	108.58	111.50
1	2	647	G	C5-C6-N1	-5.83	108.58	111.50
1	2	1182	G	N3-C4-N9	5.83	129.50	126.00
36	1	1351	U	C2-N3-C4	5.83	130.50	127.00
36	1	1949	G	C4-C5-C6	-5.83	115.30	118.80
36	1	2209	U	N1-C2-N3	-5.83	111.40	114.90
36	1	2371	G	N1-C6-O6	-5.83	116.40	119.90
36	1	2848	G	C8-N9-C4	5.83	108.73	106.40
38	4	35	C	N3-C4-N4	5.83	122.08	118.00
80	6	554	C	N3-C4-C5	5.83	124.23	121.90
80	6	608	U	N3-C4-O4	5.83	123.48	119.40
80	6	704	C	N1-C2-N3	-5.83	115.12	119.20
85	5	188	U	C4-C5-C6	-5.83	116.20	119.70
85	5	201	A	C6-C5-N7	-5.83	128.22	132.30
85	5	1489	A	C6-C5-N7	-5.83	128.22	132.30
85	5	2610	G	C8-N9-C4	-5.83	104.07	106.40
85	5	2744	U	N1-C2-O2	5.83	126.88	122.80
85	5	2918	G	C8-N9-C4	-5.83	104.07	106.40
38	8	22	U	N1-C2-N3	-5.83	111.40	114.90
1	2	428	A	C8-N9-C4	-5.83	103.47	105.80
1	2	725	U	C5-C4-O4	5.83	129.40	125.90
1	2	1544	U	C6-N1-C2	-5.83	117.50	121.00
36	1	388	G	OP1-P-O3'	5.83	118.02	105.20
36	1	494	G	N3-C4-C5	-5.83	125.69	128.60
36	1	623	U	OP1-P-OP2	-5.83	110.86	119.60
36	1	820	A	C6-N1-C2	-5.83	115.10	118.60
36	1	867	G	C4-N9-C1'	5.83	134.08	126.50
36	1	908	G	C5-N7-C8	-5.83	101.39	104.30
36	1	985	U	N1-C2-N3	5.83	118.40	114.90
36	1	1291	A	OP1-P-OP2	-5.83	110.86	119.60
36	1	1642	A	N1-C2-N3	5.83	132.21	129.30
36	1	2101	C	C5-C6-N1	-5.83	118.09	121.00
36	1	2251	G	C5-C6-N1	5.83	114.41	111.50
36	1	2885	C	O4'-C1'-N1	-5.83	103.54	108.20
36	1	3219	G	N9-C4-C5	5.83	107.73	105.40
36	1	3284	G	C5-C6-N1	-5.83	108.59	111.50
37	3	102	A	C6-N1-C2	-5.83	115.10	118.60
80	6	275	C	C6-N1-C2	-5.83	117.97	120.30
80	6	1102	G	OP2-P-O3'	5.83	118.02	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1198	G	C6-N1-C2	5.83	128.60	125.10
80	6	1688	U	N3-C4-C5	-5.83	111.10	114.60
85	5	635	G	N1-C2-N3	-5.83	120.40	123.90
85	5	886	C	O4'-C1'-N1	5.83	112.86	108.20
85	5	1405	U	O5'-P-OP1	5.83	117.69	110.70
85	5	1459	C	O5'-P-OP2	-5.83	100.45	105.70
85	5	1558	A	OP1-P-OP2	-5.83	110.86	119.60
85	5	2626	A	C5-C6-N6	5.83	128.36	123.70
85	5	3120	C	OP1-P-O3'	5.83	118.02	105.20
36	1	777	U	N3-C4-C5	-5.83	111.10	114.60
36	1	964	G	N1-C2-N3	-5.83	120.40	123.90
36	1	1439	U	C2-N3-C4	5.83	130.50	127.00
36	1	2788	C	OP1-P-OP2	-5.83	110.86	119.60
36	1	2905	U	N1-C2-O2	-5.83	118.72	122.80
80	6	470	A	C8-N9-C4	-5.83	103.47	105.80
85	5	771	A	N7-C8-N9	5.83	116.71	113.80
85	5	2122	G	C2-N3-C4	-5.83	108.99	111.90
91	P	74	C	OP1-P-O3'	5.83	118.02	105.20
36	1	613	G	N7-C8-N9	5.83	116.01	113.10
36	1	1449	A	N9-C4-C5	5.83	108.13	105.80
36	1	1505	C	C2-N3-C4	-5.83	116.99	119.90
36	1	2396	G	C6-C5-N7	-5.83	126.91	130.40
36	1	2552	C	N1-C2-N3	5.83	123.28	119.20
36	1	2783	U	N3-C2-O2	5.83	126.28	122.20
80	6	137	U	N3-C2-O2	5.83	126.28	122.20
80	6	272	U	P-O3'-C3'	5.83	126.69	119.70
80	6	1482	C	N3-C4-C5	5.83	124.23	121.90
85	5	220	G	C4-C5-N7	5.83	113.13	110.80
85	5	1518	U	C2-N3-C4	5.83	130.50	127.00
85	5	1537	A	O5'-P-OP1	5.83	117.69	110.70
85	5	1574	C	N3-C4-C5	-5.83	119.57	121.90
85	5	1620	U	C5-C4-O4	5.83	129.40	125.90
85	5	1744	G	N3-C4-C5	5.83	131.51	128.60
85	5	2129	U	N3-C2-O2	-5.83	118.12	122.20
85	5	2889	C	N1-C2-O2	5.83	122.39	118.90
42	l5	35	ARG	NE-CZ-NH1	-5.83	117.39	120.30
74	o8	3	ARG	NE-CZ-NH1	5.83	123.21	120.30
1	2	11	A	N1-C2-N3	-5.82	126.39	129.30
1	2	223	U	N3-C2-O2	5.82	126.28	122.20
1	2	1514	G	C2-N3-C4	5.82	114.81	111.90
1	2	1751	G	N3-C4-C5	-5.82	125.69	128.60
36	1	53	G	N1-C6-O6	-5.82	116.41	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	362	U	C5-C4-O4	5.82	129.39	125.90
36	1	1790	G	C8-N9-C4	5.82	108.73	106.40
36	1	1834	U	C5-C4-O4	5.82	129.40	125.90
36	1	2179	C	C2-N1-C1'	5.82	125.21	118.80
36	1	2385	G	C2-N3-C4	5.82	114.81	111.90
36	1	2853	A	N7-C8-N9	5.82	116.71	113.80
36	1	2885	C	C2-N1-C1'	5.82	125.21	118.80
36	1	2898	G	O4'-C1'-N9	-5.82	103.54	108.20
36	1	2937	G	C5-N7-C8	5.82	107.21	104.30
36	1	3380	U	C5-C4-O4	-5.82	122.41	125.90
38	4	96	A	N1-C2-N3	5.82	132.21	129.30
71	O5	43	LYS	CD-CE-NZ	5.82	125.09	111.70
80	6	173	A	C5-C6-N6	-5.82	119.04	123.70
80	6	288	A	OP1-P-OP2	-5.82	110.86	119.60
80	6	930	A	C5-C6-N1	-5.82	114.79	117.70
80	6	941	A	C8-N9-C4	-5.82	103.47	105.80
80	6	1005	A	OP1-P-OP2	-5.82	110.87	119.60
80	6	1490	C	C5-C4-N4	-5.82	116.12	120.20
85	5	97	U	C2-N3-C4	5.82	130.49	127.00
85	5	667	C	N3-C2-O2	5.82	125.98	121.90
85	5	1016	C	C2-N3-C4	5.82	122.81	119.90
85	5	1193	A	N3-C4-N9	-5.82	122.74	127.40
85	5	1227	C	C5-C4-N4	5.82	124.28	120.20
85	5	1576	G	C5-C6-O6	-5.82	125.11	128.60
85	5	2114	C	N1-C2-N3	-5.82	115.12	119.20
85	5	3106	A	C5-C6-N1	5.82	120.61	117.70
37	7	17	A	C2-N3-C4	-5.82	107.69	110.60
53	m7	22	LEU	CB-CG-CD1	-5.82	101.10	111.00
1	2	49	C	OP1-P-O3'	5.82	118.01	105.20
1	2	97	C	C5-C4-N4	5.82	124.28	120.20
1	2	599	A	N3-C4-C5	-5.82	122.72	126.80
1	2	1159	G	C5-N7-C8	-5.82	101.39	104.30
36	1	412	G	N1-C2-N3	5.82	127.39	123.90
36	1	2273	G	C2-N3-C4	-5.82	108.99	111.90
80	6	278	U	N3-C4-C5	5.82	118.09	114.60
80	6	882	U	C5-C6-N1	5.82	125.61	122.70
80	6	913	G	N1-C2-N2	5.82	121.44	116.20
85	5	609	G	N1-C2-N3	5.82	127.39	123.90
85	5	953	G	N1-C6-O6	-5.82	116.41	119.90
85	5	2347	U	N3-C4-O4	5.82	123.47	119.40
37	7	69	C	C6-N1-C2	5.82	122.63	120.30
1	2	86	A	N1-C6-N6	5.82	122.09	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	426	G	OP2-P-O3'	5.82	118.01	105.20
36	1	623	U	N3-C2-O2	5.82	126.27	122.20
36	1	756	U	OP2-P-O3'	5.82	118.00	105.20
36	1	1867	A	C4-C5-C6	5.82	119.91	117.00
36	1	2602	G	C8-N9-C4	5.82	108.73	106.40
36	1	2723	U	N1-C2-O2	-5.82	118.72	122.80
36	1	3349	C	C4-C5-C6	-5.82	114.49	117.40
80	6	315	A	O5'-P-OP1	-5.82	100.46	105.70
80	6	1027	A	C4-C5-N7	5.82	113.61	110.70
80	6	1169	G	C5-C6-O6	5.82	132.09	128.60
80	6	1340	U	N3-C2-O2	-5.82	118.12	122.20
85	5	6	A	C4-C5-N7	-5.82	107.79	110.70
85	5	315	C	O5'-P-OP1	-5.82	100.46	105.70
85	5	429	U	C5-C6-N1	5.82	125.61	122.70
85	5	1105	A	C5-C6-N6	-5.82	119.04	123.70
85	5	1457	U	N1-C2-N3	5.82	118.39	114.90
85	5	1496	C	C5-C6-N1	5.82	123.91	121.00
85	5	1709	C	C5-C4-N4	5.82	124.27	120.20
85	5	1822	C	C6-N1-C2	5.82	122.63	120.30
85	5	2101	C	OP1-P-O3'	5.82	118.00	105.20
85	5	2949	U	C2-N3-C4	5.82	130.49	127.00
85	5	3301	U	O5'-P-OP1	5.82	117.68	110.70
85	5	3316	A	C5-N7-C8	5.82	106.81	103.90
37	7	70	U	C2-N3-C4	5.82	130.49	127.00
38	8	156	U	C5-C6-N1	5.82	125.61	122.70
70	o4	8	ARG	NE-CZ-NH1	-5.82	117.39	120.30
76	q0	115	CYS	CA-CB-SG	5.82	124.48	114.00
1	2	462	G	N3-C2-N2	-5.82	115.83	119.90
36	1	882	A	C2-N3-C4	-5.82	107.69	110.60
36	1	1943	C	N3-C2-O2	-5.82	117.83	121.90
36	1	2132	C	C2-N1-C1'	5.82	125.20	118.80
38	4	75	G	O5'-P-OP2	5.82	117.68	110.70
80	6	22	A	C8-N9-C4	-5.82	103.47	105.80
85	5	92	G	O5'-P-OP2	-5.82	100.46	105.70
85	5	346	C	N1-C2-N3	5.82	123.27	119.20
85	5	1200	A	N9-C4-C5	-5.82	103.47	105.80
85	5	1507	G	N1-C2-N2	-5.82	110.96	116.20
85	5	1638	A	C5-C6-N1	-5.82	114.79	117.70
85	5	1678	G	N3-C2-N2	5.82	123.97	119.90
85	5	2189	U	N3-C4-O4	5.82	123.47	119.40
85	5	3291	G	N3-C2-N2	-5.82	115.83	119.90
1	2	189	C	N3-C4-C5	5.82	124.23	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1224	G	C4-N9-C1'	5.82	134.06	126.50
36	1	93	C	N3-C2-O2	-5.82	117.83	121.90
36	1	300	G	OP1-P-OP2	5.82	128.33	119.60
36	1	415	G	N3-C4-N9	-5.82	122.51	126.00
36	1	520	U	C6-N1-C2	-5.82	117.51	121.00
36	1	912	G	C8-N9-C4	-5.82	104.07	106.40
36	1	922	U	N1-C2-O2	5.82	126.87	122.80
36	1	1217	A	C5-C6-N1	5.82	120.61	117.70
36	1	2169	G	N1-C2-N2	-5.82	110.96	116.20
36	1	2576	G	C5-N7-C8	-5.82	101.39	104.30
36	1	2895	G	O4'-C1'-N9	-5.82	103.55	108.20
36	1	3060	C	C2-N3-C4	-5.82	116.99	119.90
36	1	3340	G	C5-N7-C8	-5.82	101.39	104.30
80	6	290	G	N7-C8-N9	5.82	116.01	113.10
80	6	545	A	C5-N7-C8	5.82	106.81	103.90
80	6	591	A	C5-N7-C8	5.82	106.81	103.90
80	6	1490	C	O5'-P-OP1	-5.82	100.47	105.70
85	5	34	A	C4-C5-N7	-5.82	107.79	110.70
85	5	277	G	O5'-P-OP2	5.82	117.68	110.70
85	5	621	A	N7-C8-N9	-5.82	110.89	113.80
85	5	1164	G	N1-C2-N2	5.82	121.44	116.20
85	5	1207	G	N3-C4-C5	-5.82	125.69	128.60
85	5	1413	G	C6-C5-N7	-5.82	126.91	130.40
85	5	1648	A	C6-C5-N7	-5.82	128.23	132.30
85	5	2283	G	C8-N9-C4	5.82	108.73	106.40
85	5	2352	A	OP1-P-OP2	-5.82	110.87	119.60
85	5	2548	C	N3-C4-C5	-5.82	119.57	121.90
85	5	2569	A	C5-C6-N1	-5.82	114.79	117.70
85	5	2839	G	C6-C5-N7	-5.82	126.91	130.40
85	5	3020	U	N3-C4-O4	5.82	123.47	119.40
85	5	3093	C	C4-C5-C6	5.82	120.31	117.40
1	2	137	U	C6-N1-C2	-5.82	117.51	121.00
1	2	1064	A	C6-C5-N7	5.82	136.37	132.30
36	1	19	U	N3-C4-C5	-5.82	111.11	114.60
36	1	99	A	C8-N9-C4	5.82	108.13	105.80
36	1	103	G	O5'-P-OP1	-5.82	100.47	105.70
36	1	355	A	C2-N3-C4	-5.82	107.69	110.60
36	1	666	A	N7-C8-N9	-5.82	110.89	113.80
36	1	817	A	OP2-P-O3'	5.82	118.00	105.20
36	1	1866	C	C6-N1-C2	-5.82	117.97	120.30
36	1	1948	G	C6-N1-C2	5.82	128.59	125.10
36	1	2527	G	N3-C2-N2	-5.82	115.83	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2828	G	C4-C5-C6	5.82	122.29	118.80
80	6	539	G	C5-C6-O6	-5.82	125.11	128.60
80	6	1547	A	N1-C6-N6	5.82	122.09	118.60
85	5	214	G	OP1-P-O3'	5.82	117.99	105.20
85	5	217	U	N1-C2-N3	-5.82	111.41	114.90
85	5	271	C	C5-C4-N4	5.82	124.27	120.20
85	5	765	C	C2-N3-C4	-5.82	116.99	119.90
85	5	1046	A	C2-N3-C4	-5.82	107.69	110.60
85	5	1175	C	C5-C4-N4	-5.82	116.13	120.20
85	5	2120	A	N1-C6-N6	-5.82	115.11	118.60
85	5	2155	G	OP1-P-OP2	5.82	128.32	119.60
85	5	2837	A	C2-N3-C4	-5.82	107.69	110.60
85	5	3043	C	OP1-P-O3'	5.82	117.99	105.20
85	5	3044	G	C6-C5-N7	-5.82	126.91	130.40
85	5	3187	A	O5'-P-OP2	-5.82	100.47	105.70
85	5	3375	A	C4-C5-N7	5.82	113.61	110.70
36	1	974	G	N7-C8-N9	-5.81	110.19	113.10
36	1	1464	G	OP1-P-OP2	5.81	128.32	119.60
36	1	1803	C	OP1-P-OP2	-5.81	110.88	119.60
38	4	135	G	N1-C6-O6	5.81	123.39	119.90
80	6	391	A	O5'-P-OP2	-5.81	100.47	105.70
80	6	511	A	N9-C4-C5	-5.81	103.47	105.80
80	6	1198	G	N1-C6-O6	5.81	123.39	119.90
85	5	6	A	C2-N3-C4	-5.81	107.69	110.60
85	5	1473	G	C5-C6-O6	5.81	132.09	128.60
85	5	1619	A	C5-C6-N1	-5.81	114.79	117.70
85	5	1892	G	C4-C5-N7	5.81	113.13	110.80
49	m3	5	LYS	CD-CE-NZ	5.81	125.07	111.70
55	m9	5	ARG	NE-CZ-NH1	5.81	123.21	120.30
1	2	146	U	N1-C2-O2	5.81	126.87	122.80
1	2	640	U	C5-C4-O4	5.81	129.39	125.90
1	2	685	G	N7-C8-N9	5.81	116.01	113.10
1	2	995	U	C5-C4-O4	5.81	129.39	125.90
1	2	1000	U	C4-C5-C6	5.81	123.19	119.70
1	2	1071	A	C6-N1-C2	-5.81	115.11	118.60
1	2	1305	A	N1-C6-N6	-5.81	115.11	118.60
1	2	1385	G	C5-C6-N1	-5.81	108.59	111.50
36	1	39	A	C6-N1-C2	-5.81	115.11	118.60
36	1	548	G	C4-C5-N7	5.81	113.12	110.80
36	1	872	U	OP2-P-O3'	5.81	117.99	105.20
36	1	1510	G	C4-C5-N7	5.81	113.12	110.80
36	1	2937	G	N1-C2-N3	-5.81	120.41	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3052	G	C4-N9-C1'	5.81	134.06	126.50
80	6	1171	A	C4-C5-N7	5.81	113.61	110.70
80	6	1422	A	O5'-P-OP2	5.81	117.67	110.70
80	6	1503	A	N1-C6-N6	5.81	122.09	118.60
85	5	64	G	C5-C6-N1	-5.81	108.59	111.50
85	5	568	G	N9-C4-C5	-5.81	103.08	105.40
85	5	1007	U	OP1-P-OP2	-5.81	110.88	119.60
85	5	1437	C	N3-C4-N4	5.81	122.07	118.00
85	5	1462	A	C4-C5-C6	5.81	119.91	117.00
85	5	2390	A	OP1-P-OP2	5.81	128.32	119.60
85	5	2815	G	C5-C6-N1	5.81	114.41	111.50
85	5	3339	A	C6-C5-N7	-5.81	128.23	132.30
85	5	3353	G	C5-C6-N1	-5.81	108.59	111.50
1	2	1345	U	C5-C4-O4	-5.81	122.41	125.90
1	2	1372	C	C2-N1-C1'	5.81	125.19	118.80
1	2	1726	U	N3-C2-O2	5.81	126.27	122.20
1	2	1760	G	C8-N9-C4	-5.81	104.08	106.40
36	1	1359	C	N3-C2-O2	5.81	125.97	121.90
36	1	3108	G	C2-N3-C4	5.81	114.81	111.90
85	5	843	A	N3-C4-C5	5.81	130.87	126.80
85	5	1080	A	C6-C5-N7	-5.81	128.23	132.30
85	5	1087	G	O5'-P-OP2	5.81	117.67	110.70
85	5	1157	G	C6-N1-C2	-5.81	121.61	125.10
85	5	3010	U	C4-C5-C6	5.81	123.19	119.70
1	2	22	A	C5-N7-C8	-5.81	101.00	103.90
1	2	1590	G	C8-N9-C4	-5.81	104.08	106.40
1	2	1731	G	C5-C6-O6	5.81	132.09	128.60
36	1	584	G	N1-C2-N2	-5.81	110.97	116.20
57	N1	91	LEU	CB-CG-CD2	-5.81	101.12	111.00
80	6	1659	A	C5-N7-C8	-5.81	101.00	103.90
80	6	1751	C	OP2-P-O3'	5.81	117.98	105.20
85	5	775	A	C5-N7-C8	-5.81	101.00	103.90
85	5	791	A	C2-N3-C4	-5.81	107.69	110.60
85	5	1359	C	N1-C2-O2	-5.81	115.41	118.90
85	5	1452	A	N1-C6-N6	5.81	122.09	118.60
85	5	2522	G	C2-N3-C4	5.81	114.81	111.90
38	8	3	A	N3-C4-N9	5.81	132.05	127.40
38	8	132	G	C6-N1-C2	-5.81	121.61	125.10
1	2	1586	U	N1-C2-O2	-5.81	118.73	122.80
1	2	1593	G	N7-C8-N9	-5.81	110.20	113.10
1	2	1599	G	N1-C6-O6	5.81	123.39	119.90
36	1	70	A	N1-C2-N3	5.81	132.20	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	156	G	C5-N7-C8	-5.81	101.40	104.30
36	1	226	C	C2-N3-C4	5.81	122.80	119.90
36	1	979	U	N1-C2-O2	5.81	126.87	122.80
36	1	1167	U	N3-C4-C5	-5.81	111.11	114.60
36	1	1415	U	C2-N3-C4	-5.81	123.52	127.00
36	1	2224	A	C2-N3-C4	5.81	113.50	110.60
36	1	2550	U	OP1-P-O3'	5.81	117.98	105.20
36	1	2835	U	N1-C2-O2	-5.81	118.73	122.80
36	1	2927	C	C5-C6-N1	-5.81	118.10	121.00
36	1	3317	U	C2-N3-C4	-5.81	123.52	127.00
37	3	65	G	C4-C5-N7	-5.81	108.48	110.80
52	M6	59	ARG	NE-CZ-NH1	5.81	123.20	120.30
80	6	334	G	C5-C6-O6	5.81	132.09	128.60
80	6	1142	A	OP1-P-OP2	5.81	128.31	119.60
80	6	1747	G	C4-C5-C6	-5.81	115.32	118.80
85	5	198	A	N7-C8-N9	-5.81	110.90	113.80
85	5	597	G	O5'-P-OP2	-5.81	100.47	105.70
85	5	1225	A	N9-C4-C5	5.81	108.12	105.80
85	5	1470	U	N1-C2-N3	5.81	118.38	114.90
85	5	2625	C	C5-C6-N1	5.81	123.90	121.00
85	5	3008	A	N7-C8-N9	-5.81	110.90	113.80
37	7	76	A	C5-N7-C8	-5.81	101.00	103.90
38	8	56	G	C6-C5-N7	-5.81	126.92	130.40
1	2	309	C	C2-N1-C1'	5.81	125.19	118.80
36	1	340	C	N1-C2-N3	5.81	123.26	119.20
36	1	510	G	N1-C2-N3	5.81	127.38	123.90
36	1	910	G	N3-C2-N2	-5.81	115.84	119.90
36	1	934	G	C4-N9-C1'	5.81	134.05	126.50
36	1	1913	A	O5'-P-OP1	5.81	117.67	110.70
36	1	2559	U	N1-C2-O2	-5.81	118.73	122.80
36	1	3013	U	C4-C5-C6	-5.81	116.22	119.70
80	6	297	U	N3-C4-O4	5.81	123.46	119.40
80	6	1591	C	C6-N1-C2	-5.81	117.98	120.30
85	5	927	C	C6-N1-C2	-5.81	117.98	120.30
85	5	2812	C	OP2-P-O3'	-5.81	92.43	105.20
85	5	2846	U	C2-N1-C1'	5.81	124.67	117.70
85	5	3264	G	N1-C2-N2	5.81	121.42	116.20
1	2	560	U	O5'-P-OP1	5.80	117.67	110.70
1	2	1092	G	N3-C2-N2	-5.80	115.84	119.90
36	1	152	U	N1-C2-O2	5.80	126.86	122.80
36	1	773	G	C2-N3-C4	5.80	114.80	111.90
36	1	880	G	C4-N9-C1'	-5.80	118.95	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	889	U	OP1-P-O3'	5.80	117.97	105.20
36	1	1722	U	C5-C4-O4	-5.80	122.42	125.90
36	1	2162	U	N3-C4-C5	5.80	118.08	114.60
36	1	2931	C	OP1-P-OP2	-5.80	110.89	119.60
37	3	101	G	C8-N9-C4	5.80	108.72	106.40
52	M6	27	LEU	CB-CG-CD1	-5.80	101.13	111.00
80	6	159	U	C5-C6-N1	5.80	125.60	122.70
80	6	450	U	C2-N3-C4	-5.80	123.52	127.00
80	6	1019	A	OP1-P-OP2	5.80	128.31	119.60
85	5	41	G	OP2-P-O3'	5.80	117.97	105.20
85	5	87	U	C5-C6-N1	5.80	125.60	122.70
85	5	387	A	O5'-P-OP2	-5.80	100.47	105.70
85	5	426	G	C5-C6-N1	5.80	114.40	111.50
85	5	561	C	N3-C4-C5	5.80	124.22	121.90
85	5	727	G	C5-C6-O6	-5.80	125.12	128.60
85	5	836	A	O4'-C1'-N9	-5.80	103.56	108.20
85	5	1035	G	N3-C4-N9	5.80	129.48	126.00
85	5	1936	A	N7-C8-N9	5.80	116.70	113.80
1	2	1779	C	C2-N3-C4	5.80	122.80	119.90
36	1	1073	U	OP1-P-OP2	5.80	128.31	119.60
36	1	1517	G	C5-N7-C8	-5.80	101.40	104.30
36	1	1787	A	O5'-P-OP2	5.80	117.66	110.70
36	1	2393	G	N1-C6-O6	-5.80	116.42	119.90
36	1	2863	G	N1-C2-N3	5.80	127.38	123.90
36	1	3012	A	N1-C2-N3	-5.80	126.40	129.30
38	4	37	A	C5-N7-C8	-5.80	101.00	103.90
80	6	147	A	OP1-P-OP2	-5.80	110.90	119.60
80	6	927	C	N3-C4-N4	5.80	122.06	118.00
85	5	621	A	C6-N1-C2	-5.80	115.12	118.60
85	5	2144	A	OP1-P-O3'	5.80	117.97	105.20
85	5	3186	A	C8-N9-C4	-5.80	103.48	105.80
1	2	1148	G	N3-C4-N9	5.80	129.48	126.00
1	2	1152	G	N7-C8-N9	5.80	116.00	113.10
1	2	1262	C	C5-C6-N1	5.80	123.90	121.00
36	1	211	A	C6-C5-N7	-5.80	128.24	132.30
36	1	399	A	O5'-P-OP2	-5.80	100.48	105.70
36	1	427	C	N3-C2-O2	5.80	125.96	121.90
36	1	732	C	C4-C5-C6	5.80	120.30	117.40
36	1	944	C	C4-C5-C6	-5.80	114.50	117.40
36	1	1492	G	C5-C6-N1	-5.80	108.60	111.50
36	1	1771	C	C5-C4-N4	-5.80	116.14	120.20
36	1	1808	G	N9-C4-C5	5.80	107.72	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2914	G	C5-N7-C8	5.80	107.20	104.30
38	4	70	G	N1-C2-N2	-5.80	110.98	116.20
56	N0	13	ARG	NE-CZ-NH1	5.80	123.20	120.30
80	6	1065	A	O5'-P-OP2	5.80	117.66	110.70
85	5	150	A	C8-N9-C4	5.80	108.12	105.80
85	5	412	G	C2-N3-C4	-5.80	109.00	111.90
85	5	733	G	N9-C1'-C2'	-5.80	105.62	112.00
85	5	829	U	C6-N1-C2	5.80	124.48	121.00
85	5	836	A	N1-C6-N6	-5.80	115.12	118.60
85	5	937	G	N3-C4-N9	5.80	129.48	126.00
85	5	1237	G	N1-C6-O6	-5.80	116.42	119.90
85	5	1606	U	OP2-P-O3'	5.80	117.96	105.20
85	5	2611	U	OP1-P-O3'	5.80	117.96	105.20
85	5	2921	U	N1-C2-O2	-5.80	118.74	122.80
1	2	621	A	N1-C2-N3	-5.80	126.40	129.30
1	2	809	U	C6-N1-C2	-5.80	117.52	121.00
1	2	1089	U	OP1-P-OP2	-5.80	110.90	119.60
1	2	1566	A	C6-N1-C2	-5.80	115.12	118.60
1	2	1738	A	C6-C5-N7	-5.80	128.24	132.30
36	1	28	C	C2-N1-C1'	5.80	125.18	118.80
36	1	33	G	N9-C1'-C2'	-5.80	105.62	112.00
36	1	330	G	C5-C6-O6	-5.80	125.12	128.60
36	1	401	U	C2-N1-C1'	5.80	124.66	117.70
36	1	430	U	OP1-P-OP2	-5.80	110.90	119.60
36	1	1106	G	O5'-P-OP1	-5.80	100.48	105.70
36	1	1897	G	O4'-C1'-N9	5.80	112.84	108.20
36	1	2809	C	N3-C2-O2	-5.80	117.84	121.90
36	1	2951	G	N7-C8-N9	-5.80	110.20	113.10
36	1	3283	U	C5-C6-N1	5.80	125.60	122.70
80	6	149	C	C5-C6-N1	5.80	123.90	121.00
80	6	925	G	OP1-P-OP2	-5.80	110.90	119.60
80	6	1181	U	C5-C6-N1	5.80	125.60	122.70
80	6	1311	U	O5'-P-OP1	-5.80	100.48	105.70
85	5	5	G	C5-C6-N1	-5.80	108.60	111.50
85	5	172	G	O5'-P-OP1	-5.80	100.48	105.70
85	5	575	G	N3-C4-N9	-5.80	122.52	126.00
85	5	910	G	N9-C4-C5	-5.80	103.08	105.40
85	5	1202	A	N7-C8-N9	5.80	116.70	113.80
85	5	1396	C	C6-N1-C2	5.80	122.62	120.30
85	5	1639	C	N3-C2-O2	5.80	125.96	121.90
85	5	2093	A	C6-N1-C2	5.80	122.08	118.60
85	5	2305	G	C5-N7-C8	-5.80	101.40	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2799	A	C5-C6-N1	5.80	120.60	117.70
85	5	3087	A	C8-N9-C4	5.80	108.12	105.80
85	5	3239	G	N3-C4-N9	-5.80	122.52	126.00
85	5	3287	U	N3-C4-O4	5.80	123.46	119.40
38	8	76	C	C6-N1-C2	-5.80	117.98	120.30
52	m6	101	ARG	NE-CZ-NH1	5.80	123.20	120.30
1	2	104	A	N1-C2-N3	5.80	132.20	129.30
1	2	325	G	N7-C8-N9	5.80	116.00	113.10
1	2	1402	G	C8-N9-C4	5.80	108.72	106.40
1	2	1426	U	N1-C2-N3	5.80	118.38	114.90
1	2	1721	U	N1-C2-N3	5.80	118.38	114.90
36	1	1383	G	C4-C5-C6	5.80	122.28	118.80
36	1	1662	G	C4-C5-C6	5.80	122.28	118.80
80	6	782	U	C4-C5-C6	5.80	123.18	119.70
85	5	499	G	N3-C4-C5	5.80	131.50	128.60
85	5	1532	C	C5-C6-N1	-5.80	118.10	121.00
85	5	1743	G	N7-C8-N9	5.80	116.00	113.10
85	5	1758	G	N3-C4-N9	-5.80	122.52	126.00
85	5	2872	A	C4-C5-C6	-5.80	114.10	117.00
85	5	2892	A	N1-C2-N3	5.80	132.20	129.30
43	l6	169	ASP	CB-CG-OD2	5.80	123.52	118.30
1	2	1308	A	C5-C6-N6	-5.80	119.06	123.70
1	2	1749	A	N7-C8-N9	-5.80	110.90	113.80
36	1	86	G	C6-N1-C2	-5.80	121.62	125.10
36	1	1249	G	C5-C6-O6	-5.80	125.12	128.60
36	1	1588	A	OP1-P-OP2	5.80	128.29	119.60
36	1	1712	G	C8-N9-C4	-5.80	104.08	106.40
36	1	2299	A	C8-N9-C4	-5.80	103.48	105.80
36	1	2418	G	N1-C2-N2	5.80	121.42	116.20
36	1	2615	G	C5-C6-N1	5.80	114.40	111.50
69	O3	6	ARG	NE-CZ-NH2	-5.80	117.40	120.30
80	6	164	A	C8-N9-C4	-5.80	103.48	105.80
80	6	394	C	N1-C2-O2	-5.80	115.42	118.90
80	6	651	G	C5-C6-O6	-5.80	125.12	128.60
80	6	742	U	C5-C6-N1	5.80	125.60	122.70
80	6	1060	U	N1-C2-O2	5.80	126.86	122.80
80	6	1616	G	C5-C6-N1	-5.80	108.60	111.50
85	5	171	G	N1-C2-N2	-5.80	110.98	116.20
85	5	1134	G	C4-C5-C6	5.80	122.28	118.80
85	5	1225	A	C6-N1-C2	-5.80	115.12	118.60
85	5	1861	G	C5-N7-C8	-5.80	101.40	104.30
85	5	2240	G	N1-C2-N2	-5.80	110.98	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2357	A	O3'-P-O5'	-5.80	92.98	104.00
85	5	2419	A	C4-C5-N7	5.80	113.60	110.70
85	5	2803	A	OP2-P-O3'	5.80	117.95	105.20
85	5	2914	G	C5-C6-O6	-5.80	125.12	128.60
85	5	3003	G	C6-N1-C2	-5.80	121.62	125.10
85	5	3113	A	C5-C6-N6	5.80	128.34	123.70
85	5	3278	C	C5-C4-N4	-5.80	116.14	120.20
85	5	3392	U	O5'-P-OP2	-5.80	100.48	105.70
38	8	33	A	N9-C4-C5	-5.80	103.48	105.80
48	m1	79	ILE	CG1-CB-CG2	-5.80	98.65	111.40
56	n0	52	LYS	CD-CE-NZ	5.80	125.03	111.70
1	2	547	U	C2-N3-C4	-5.79	123.52	127.00
1	2	1278	G	C2-N3-C4	5.79	114.80	111.90
36	1	436	A	N7-C8-N9	5.79	116.70	113.80
36	1	1442	U	OP1-P-OP2	-5.79	110.91	119.60
36	1	2746	A	C4-C5-N7	-5.79	107.80	110.70
36	1	2769	A	N1-C2-N3	5.79	132.20	129.30
36	1	3331	U	N1-C2-O2	-5.79	118.74	122.80
38	4	71	A	OP1-P-OP2	5.79	128.29	119.60
85	5	224	C	O4'-C1'-N1	5.79	112.84	108.20
85	5	375	A	N7-C8-N9	5.79	116.70	113.80
85	5	917	A	N1-C6-N6	5.79	122.08	118.60
85	5	1022	U	C5-C6-N1	5.79	125.60	122.70
85	5	1824	U	N1-C2-O2	-5.79	118.74	122.80
78	q2	45	ARG	NE-CZ-NH1	-5.79	117.40	120.30
1	2	705	G	C2-N3-C4	5.79	114.80	111.90
1	2	752	A	C6-C5-N7	5.79	136.36	132.30
1	2	1271	G	C5-N7-C8	5.79	107.20	104.30
36	1	136	G	C6-C5-N7	5.79	133.88	130.40
36	1	141	C	C2-N3-C4	5.79	122.80	119.90
36	1	204	A	O5'-P-OP1	5.79	117.65	110.70
36	1	330	G	N3-C2-N2	5.79	123.95	119.90
36	1	898	U	C2-N3-C4	5.79	130.48	127.00
36	1	923	C	N3-C4-C5	5.79	124.22	121.90
36	1	933	A	OP1-P-OP2	5.79	128.29	119.60
36	1	963	G	C5-C6-O6	-5.79	125.12	128.60
36	1	1546	A	C8-N9-C4	-5.79	103.48	105.80
36	1	1566	A	C8-N9-C4	-5.79	103.48	105.80
36	1	1808	G	O5'-P-OP2	-5.79	100.48	105.70
36	1	1830	G	O5'-P-OP2	5.79	117.65	110.70
36	1	1855	U	C6-N1-C2	-5.79	117.52	121.00
36	1	1868	G	C5-C6-N1	5.79	114.40	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2289	U	C6-N1-C2	-5.79	117.52	121.00
36	1	2777	G	C6-N1-C2	-5.79	121.62	125.10
36	1	2831	G	OP1-P-O3'	-5.79	92.45	105.20
36	1	2892	A	C2-N3-C4	-5.79	107.70	110.60
36	1	3018	C	N1-C2-N3	5.79	123.25	119.20
36	1	3370	A	C5-N7-C8	-5.79	101.00	103.90
37	3	66	A	C8-N9-C4	-5.79	103.48	105.80
65	N9	18	ARG	NE-CZ-NH1	5.79	123.20	120.30
80	6	769	A	N1-C6-N6	-5.79	115.12	118.60
85	5	86	G	C5-C6-O6	-5.79	125.12	128.60
85	5	902	G	O5'-P-OP1	-5.79	100.49	105.70
85	5	1600	U	OP1-P-O3'	5.79	117.95	105.20
85	5	1785	U	C2-N3-C4	5.79	130.48	127.00
85	5	2512	C	OP1-P-O3'	5.79	117.94	105.20
85	5	2759	U	OP1-P-OP2	-5.79	110.91	119.60
85	5	3209	A	C6-C5-N7	5.79	136.36	132.30
38	8	146	U	N1-C2-N3	-5.79	111.42	114.90
1	2	396	G	N1-C6-O6	5.79	123.38	119.90
1	2	586	G	N3-C4-N9	5.79	129.47	126.00
1	2	1084	G	C5-C6-N1	5.79	114.40	111.50
1	2	1090	G	N3-C4-C5	-5.79	125.70	128.60
1	2	1097	G	C5-N7-C8	-5.79	101.40	104.30
1	2	1128	U	C6-N1-C1'	5.79	129.31	121.20
1	2	1449	G	C2-N3-C4	5.79	114.80	111.90
36	1	412	G	N9-C4-C5	5.79	107.72	105.40
36	1	573	C	C5-C4-N4	5.79	124.25	120.20
36	1	1093	A	C6-N1-C2	5.79	122.08	118.60
36	1	2302	G	N3-C4-C5	-5.79	125.70	128.60
36	1	2745	G	C6-N1-C2	-5.79	121.63	125.10
37	3	20	A	C5-N7-C8	-5.79	101.00	103.90
80	6	93	A	C6-N1-C2	-5.79	115.12	118.60
80	6	637	C	C6-N1-C2	-5.79	117.98	120.30
85	5	748	U	OP1-P-OP2	-5.79	110.91	119.60
85	5	769	G	C2-N3-C4	-5.79	109.00	111.90
85	5	1693	C	N3-C4-C5	5.79	124.22	121.90
85	5	2348	A	N9-C4-C5	5.79	108.12	105.80
85	5	2422	C	O5'-P-OP1	5.79	117.65	110.70
85	5	2604	U	OP2-P-O3'	5.79	117.94	105.20
41	14	197	ARG	NE-CZ-NH1	-5.79	117.41	120.30
1	2	462	G	C5-C6-O6	-5.79	125.13	128.60
1	2	498	G	O5'-P-OP1	-5.79	100.49	105.70
36	1	503	C	N3-C4-C5	-5.79	119.58	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1462	A	C2-N3-C4	-5.79	107.70	110.60
36	1	1574	C	N3-C4-C5	-5.79	119.58	121.90
36	1	2957	G	C6-N1-C2	-5.79	121.63	125.10
36	1	3020	U	C6-N1-C2	-5.79	117.53	121.00
80	6	720	G	C4-C5-N7	-5.79	108.48	110.80
80	6	1550	A	C8-N9-C4	-5.79	103.48	105.80
85	5	738	A	C6-N1-C2	5.79	122.07	118.60
85	5	1945	A	C5-N7-C8	-5.79	101.00	103.90
85	5	2987	A	C4-C5-N7	-5.79	107.81	110.70
85	5	3020	U	OP1-P-OP2	5.79	128.28	119.60
1	2	465	G	N1-C6-O6	-5.79	116.43	119.90
1	2	734	G	N1-C6-O6	5.79	123.37	119.90
1	2	970	G	N1-C2-N3	5.79	127.37	123.90
1	2	1330	U	C2-N3-C4	5.79	130.47	127.00
1	2	1462	A	N1-C2-N3	-5.79	126.41	129.30
36	1	583	G	O5'-P-OP1	-5.79	100.49	105.70
36	1	784	A	N1-C2-N3	5.79	132.19	129.30
36	1	1084	A	C5-N7-C8	-5.79	101.01	103.90
36	1	1467	A	N3-C4-C5	-5.79	122.75	126.80
36	1	1502	C	C2-N1-C1'	-5.79	112.43	118.80
36	1	2166	A	O5'-P-OP2	5.79	117.65	110.70
36	1	2255	A	C2-N3-C4	5.79	113.50	110.60
36	1	2400	G	N1-C2-N2	-5.79	110.99	116.20
36	1	3024	A	C8-N9-C4	-5.79	103.48	105.80
37	3	6	C	C4-C5-C6	-5.79	114.51	117.40
38	4	40	A	C4-C5-N7	5.79	113.59	110.70
38	4	134	G	N3-C4-C5	5.79	131.50	128.60
80	6	347	G	C4-N9-C1'	5.79	134.03	126.50
80	6	418	G	N9-C4-C5	-5.79	103.08	105.40
80	6	1431	C	N3-C4-N4	5.79	122.05	118.00
85	5	116	A	C4-C5-C6	5.79	119.89	117.00
85	5	390	G	C2-N3-C4	-5.79	109.01	111.90
85	5	582	G	C6-N1-C2	-5.79	121.63	125.10
85	5	791	A	OP1-P-OP2	-5.79	110.92	119.60
85	5	840	C	C5-C4-N4	-5.79	116.15	120.20
85	5	1482	A	C4-C5-C6	5.79	119.89	117.00
85	5	1532	C	C2-N3-C4	-5.79	117.01	119.90
85	5	1744	G	N3-C2-N2	-5.79	115.85	119.90
85	5	2163	C	C4-C5-C6	5.79	120.29	117.40
85	5	2328	U	N3-C4-C5	-5.79	111.13	114.60
85	5	2753	G	O5'-P-OP2	-5.79	100.49	105.70
85	5	3058	U	N1-C2-N3	5.79	118.37	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	7	41	G	C4-C5-C6	5.79	122.27	118.80
37	7	80	G	N1-C2-N2	-5.79	110.99	116.20
38	8	65	A	O4'-C1'-N9	5.79	112.83	108.20
38	8	137	C	N1-C2-O2	-5.79	115.43	118.90
54	m8	90	ASP	CB-CG-OD2	5.79	123.51	118.30
36	1	284	A	C6-C5-N7	-5.79	128.25	132.30
36	1	748	U	C5-C6-N1	5.79	125.59	122.70
36	1	1806	A	C6-N1-C2	-5.79	115.13	118.60
36	1	3239	G	N7-C8-N9	5.79	115.99	113.10
80	6	207	U	OP1-P-OP2	-5.79	110.92	119.60
85	5	1732	U	C5-C6-N1	5.79	125.59	122.70
37	7	65	G	C6-C5-N7	-5.79	126.93	130.40
1	2	560	U	C5-C4-O4	5.79	129.37	125.90
1	2	822	U	C6-N1-C2	-5.79	117.53	121.00
1	2	1107	A	N3-C4-N9	-5.79	122.77	127.40
36	1	945	C	OP1-P-OP2	5.79	128.28	119.60
36	1	1131	G	N1-C6-O6	5.79	123.37	119.90
36	1	1387	G	N9-C4-C5	5.79	107.71	105.40
36	1	1535	A	C5-C6-N6	5.79	128.33	123.70
36	1	2874	G	C4-N9-C1'	5.79	134.02	126.50
36	1	3314	A	C8-N9-C4	-5.79	103.49	105.80
38	4	83	C	C6-N1-C2	-5.79	117.99	120.30
80	6	279	G	N1-C2-N3	-5.79	120.43	123.90
80	6	375	U	N3-C4-O4	5.79	123.45	119.40
80	6	533	U	N3-C4-O4	-5.79	115.35	119.40
80	6	534	A	N1-C6-N6	-5.79	115.13	118.60
80	6	807	A	N7-C8-N9	5.79	116.69	113.80
80	6	1572	G	C6-C5-N7	-5.79	126.93	130.40
80	6	1583	A	N1-C2-N3	5.79	132.19	129.30
85	5	121	A	C8-N9-C4	5.79	108.11	105.80
85	5	761	A	C5-C6-N6	-5.79	119.07	123.70
85	5	1531	C	OP1-P-O3'	5.79	117.93	105.20
85	5	1926	C	N3-C4-N4	-5.79	113.95	118.00
85	5	1928	G	O5'-P-OP1	5.79	117.64	110.70
85	5	2724	U	OP1-P-O3'	5.79	117.93	105.20
85	5	2875	U	C6-N1-C1'	5.79	129.30	121.20
85	5	3184	A	N3-C4-C5	5.79	130.85	126.80
1	2	67	A	C5-C6-N6	5.78	128.33	123.70
1	2	293	U	N1-C2-N3	5.78	118.37	114.90
1	2	438	A	N7-C8-N9	5.78	116.69	113.80
1	2	766	G	C4-C5-N7	5.78	113.11	110.80
1	2	967	G	O5'-P-OP2	-5.78	100.50	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	18	G	O5'-P-OP1	5.78	117.64	110.70
36	1	71	A	C5-C6-N6	5.78	128.33	123.70
36	1	535	G	C6-N1-C2	-5.78	121.63	125.10
36	1	630	A	C4-C5-C6	-5.78	114.11	117.00
36	1	738	A	C2-N3-C4	5.78	113.49	110.60
36	1	816	A	N3-C4-C5	-5.78	122.75	126.80
36	1	1195	A	N1-C2-N3	5.78	132.19	129.30
36	1	2145	A	O4'-C1'-N9	-5.78	103.57	108.20
36	1	2928	C	N1-C2-O2	-5.78	115.43	118.90
36	1	3028	G	N9-C4-C5	-5.78	103.09	105.40
37	3	7	G	C2-N3-C4	-5.78	109.01	111.90
73	O7	32	LYS	CD-CE-NZ	5.78	125.00	111.70
80	6	503	G	C2-N3-C4	5.78	114.79	111.90
80	6	979	A	OP2-P-O3'	5.78	117.92	105.20
80	6	1534	G	C5-N7-C8	5.78	107.19	104.30
85	5	576	C	OP1-P-O3'	5.78	117.93	105.20
85	5	1130	A	N1-C6-N6	-5.78	115.13	118.60
85	5	1634	G	C8-N9-C4	-5.78	104.09	106.40
85	5	2201	G	OP1-P-OP2	-5.78	110.92	119.60
85	5	2344	U	C4-C5-C6	5.78	123.17	119.70
85	5	2822	U	OP2-P-O3'	-5.78	92.48	105.20
62	n6	13	ARG	NE-CZ-NH2	-5.78	117.41	120.30
1	2	742	U	N3-C2-O2	-5.78	118.15	122.20
1	2	904	U	C5-C4-O4	-5.78	122.43	125.90
1	2	1087	U	N1-C2-O2	-5.78	118.75	122.80
36	1	2524	A	N3-C4-C5	5.78	130.85	126.80
80	6	1330	G	N1-C2-N3	5.78	127.37	123.90
80	6	1800	A	O5'-P-OP2	-5.78	100.50	105.70
85	5	1129	A	C5-C6-N1	5.78	120.59	117.70
85	5	1506	A	N1-C6-N6	5.78	122.07	118.60
85	5	2619	G	OP1-P-OP2	-5.78	110.93	119.60
85	5	3147	G	O5'-P-OP1	5.78	117.64	110.70
53	m7	3	ARG	NE-CZ-NH1	5.78	123.19	120.30
1	2	872	U	C4-C5-C6	-5.78	116.23	119.70
1	2	1457	G	N9-C4-C5	-5.78	103.09	105.40
1	2	1512	C	OP1-P-OP2	5.78	128.27	119.60
1	2	1751	G	C5-N7-C8	5.78	107.19	104.30
36	1	9	U	N1-C2-N3	5.78	118.37	114.90
36	1	223	U	N3-C4-C5	-5.78	111.13	114.60
36	1	378	A	C5-N7-C8	5.78	106.79	103.90
36	1	391	A	O5'-P-OP2	-5.78	100.50	105.70
36	1	1092	C	N1-C2-N3	-5.78	115.15	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1496	C	C2-N3-C4	5.78	122.79	119.90
38	4	129	C	OP1-P-OP2	-5.78	110.93	119.60
38	4	130	C	C6-N1-C2	5.78	122.61	120.30
80	6	902	G	N9-C4-C5	5.78	107.71	105.40
80	6	1592	A	C2-N3-C4	-5.78	107.71	110.60
85	5	128	G	C5-C6-O6	5.78	132.07	128.60
85	5	429	U	N3-C2-O2	5.78	126.25	122.20
85	5	628	A	C8-N9-C4	5.78	108.11	105.80
85	5	651	G	N3-C4-N9	-5.78	122.53	126.00
85	5	824	C	N3-C4-C5	-5.78	119.59	121.90
85	5	1166	G	C5-N7-C8	5.78	107.19	104.30
85	5	1271	A	C5-C6-N6	-5.78	119.08	123.70
85	5	1475	A	C4-C5-C6	5.78	119.89	117.00
85	5	1701	C	N3-C4-N4	5.78	122.05	118.00
85	5	1752	A	N1-C6-N6	5.78	122.07	118.60
85	5	2253	G	N3-C4-N9	5.78	129.47	126.00
85	5	2320	A	C5-N7-C8	-5.78	101.01	103.90
85	5	2387	A	C5-C6-N1	5.78	120.59	117.70
85	5	2970	C	O4'-C1'-N1	-5.78	103.58	108.20
37	7	86	U	N1-C2-N3	-5.78	111.43	114.90
1	2	269	G	O5'-P-OP1	5.78	117.64	110.70
36	1	110	G	O5'-P-OP1	-5.78	100.50	105.70
36	1	618	C	C4-C5-C6	5.78	120.29	117.40
80	6	119	A	C5-C6-N6	5.78	128.32	123.70
80	6	1038	U	C5-C4-O4	-5.78	122.43	125.90
80	6	1209	C	N3-C4-N4	5.78	122.05	118.00
80	6	1562	G	N1-C2-N3	5.78	127.37	123.90
85	5	104	G	OP2-P-O3'	5.78	117.91	105.20
85	5	686	G	C6-C5-N7	-5.78	126.93	130.40
85	5	706	A	C8-N9-C4	5.78	108.11	105.80
85	5	1340	G	C8-N9-C4	5.78	108.71	106.40
85	5	2273	G	C8-N9-C4	-5.78	104.09	106.40
1	2	1271	G	C5-C6-O6	5.78	132.07	128.60
36	1	1290	A	N3-C4-C5	5.78	130.84	126.80
36	1	1397	C	C2-N3-C4	-5.78	117.01	119.90
36	1	3022	G	N3-C2-N2	5.78	123.94	119.90
36	1	3182	G	C5-C6-N1	-5.78	108.61	111.50
80	6	610	G	N3-C4-N9	5.78	129.47	126.00
80	6	787	G	N1-C2-N2	5.78	121.40	116.20
80	6	1422	A	O5'-P-OP1	-5.78	100.50	105.70
80	6	1650	U	OP1-P-O3'	5.78	117.91	105.20
80	6	1731	A	N9-C4-C5	5.78	108.11	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	326	U	N1-C2-N3	-5.78	111.43	114.90
85	5	707	U	C5-C4-O4	5.78	129.37	125.90
85	5	890	C	N1-C2-N3	5.78	123.25	119.20
85	5	1869	C	C2-N1-C1'	-5.78	112.44	118.80
85	5	2667	A	C5-C6-N1	5.78	120.59	117.70
85	5	2689	A	C6-N1-C2	-5.78	115.13	118.60
85	5	2836	C	C5-C6-N1	5.78	123.89	121.00
1	2	966	A	N1-C6-N6	-5.78	115.13	118.60
1	2	1710	G	C5-C6-O6	-5.78	125.14	128.60
1	2	1761	G	O5'-P-OP1	-5.78	100.50	105.70
36	1	306	A	C6-N1-C2	5.78	122.06	118.60
36	1	535	G	C6-C5-N7	-5.78	126.93	130.40
36	1	979	U	N1-C2-N3	5.78	118.37	114.90
36	1	1337	A	O5'-P-OP1	5.78	117.63	110.70
36	1	2304	C	N1-C2-O2	-5.78	115.44	118.90
36	1	2687	G	C2-N3-C4	5.78	114.79	111.90
36	1	2689	A	C8-N9-C4	-5.78	103.49	105.80
37	3	70	U	C6-N1-C2	5.78	124.47	121.00
80	6	118	U	N3-C4-O4	-5.78	115.36	119.40
80	6	421	A	O5'-P-OP1	5.78	117.63	110.70
80	6	875	G	C4-C5-N7	-5.78	108.49	110.80
85	5	32	U	OP2-P-O3'	5.78	117.91	105.20
85	5	642	U	N1-C2-N3	5.78	118.36	114.90
85	5	1019	G	N3-C4-C5	-5.78	125.71	128.60
85	5	1440	G	N1-C2-N3	5.78	127.37	123.90
85	5	1635	G	N3-C4-N9	-5.78	122.53	126.00
85	5	1735	G	C6-C5-N7	-5.78	126.94	130.40
85	5	1914	G	C8-N9-C4	-5.78	104.09	106.40
85	5	2125	A	C6-C5-N7	-5.78	128.26	132.30
85	5	2710	C	OP1-P-O3'	5.78	117.91	105.20
85	5	2957	G	O5'-P-OP2	-5.78	100.50	105.70
85	5	3161	C	N3-C2-O2	-5.78	117.86	121.90
1	2	1127	U	C2-N1-C1'	5.77	124.63	117.70
1	2	1613	U	C6-N1-C2	-5.77	117.53	121.00
36	1	399	A	N1-C2-N3	5.77	132.19	129.30
36	1	1428	A	N9-C4-C5	-5.77	103.49	105.80
80	6	109	G	N9-C4-C5	-5.77	103.09	105.40
85	5	390	G	N1-C6-O6	5.77	123.36	119.90
1	2	40	A	OP1-P-OP2	-5.77	110.94	119.60
36	1	219	A	N3-C4-C5	-5.77	122.76	126.80
36	1	301	G	C4-C5-C6	5.77	122.26	118.80
36	1	359	U	C5-C6-N1	5.77	125.59	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	649	A	C8-N9-C4	5.77	108.11	105.80
36	1	843	A	C6-N1-C2	5.77	122.06	118.60
36	1	1538	G	N1-C2-N3	5.77	127.36	123.90
36	1	2167	A	C2-N3-C4	-5.77	107.71	110.60
36	1	2821	C	N3-C2-O2	-5.77	117.86	121.90
37	3	46	A	C5-C6-N6	5.77	128.32	123.70
80	6	81	G	N1-C2-N3	5.77	127.36	123.90
80	6	81	G	C4-C5-N7	-5.77	108.49	110.80
80	6	389	G	O5'-P-OP1	-5.77	100.50	105.70
80	6	579	A	C4-C5-C6	-5.77	114.11	117.00
80	6	764	U	C5-C6-N1	5.77	125.59	122.70
85	5	103	G	C5-C6-N1	-5.77	108.61	111.50
85	5	795	G	C8-N9-C4	-5.77	104.09	106.40
85	5	821	U	OP2-P-O3'	5.77	117.90	105.20
85	5	876	A	OP2-P-O3'	5.77	117.90	105.20
85	5	1510	G	OP1-P-OP2	5.77	128.26	119.60
85	5	1547	G	C5-C6-N1	5.77	114.39	111.50
85	5	1703	U	OP1-P-OP2	5.77	128.26	119.60
85	5	1846	C	O5'-P-OP1	5.77	117.63	110.70
85	5	2600	C	OP2-P-O3'	5.77	117.90	105.20
36	1	271	C	C4-C5-C6	5.77	120.29	117.40
36	1	2205	U	O5'-P-OP1	5.77	117.63	110.70
36	1	2596	U	C5-C4-O4	-5.77	122.44	125.90
36	1	3325	G	C5-C6-N1	5.77	114.39	111.50
80	6	206	A	C4-C5-C6	5.77	119.89	117.00
80	6	215	A	C4-C5-N7	5.77	113.58	110.70
85	5	3263	G	C2-N3-C4	-5.77	109.02	111.90
38	8	121	U	OP2-P-O3'	5.77	117.90	105.20
1	2	358	U	C2-N3-C4	-5.77	123.54	127.00
36	1	305	U	C6-N1-C2	-5.77	117.54	121.00
36	1	1113	G	OP1-P-OP2	-5.77	110.95	119.60
36	1	2169	G	C6-N1-C2	-5.77	121.64	125.10
36	1	2653	C	C5-C6-N1	5.77	123.89	121.00
61	N5	40	LEU	CB-CG-CD1	-5.77	101.19	111.00
80	6	64	U	OP1-P-OP2	5.77	128.25	119.60
80	6	264	G	C6-N1-C2	5.77	128.56	125.10
85	5	172	G	C2-N3-C4	5.77	114.78	111.90
85	5	267	G	C5-N7-C8	-5.77	101.42	104.30
85	5	754	G	C6-C5-N7	5.77	133.86	130.40
85	5	956	U	C2-N1-C1'	-5.77	110.78	117.70
85	5	959	C	N3-C4-C5	-5.77	119.59	121.90
85	5	1143	A	N1-C2-N3	5.77	132.19	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1410	U	C2-N3-C4	-5.77	123.54	127.00
85	5	1588	A	OP1-P-OP2	5.77	128.25	119.60
85	5	1743	G	C5-C6-N1	-5.77	108.61	111.50
85	5	1832	C	N1-C2-O2	5.77	122.36	118.90
85	5	2116	G	N7-C8-N9	5.77	115.98	113.10
85	5	2703	A	O4'-C1'-N9	-5.77	103.58	108.20
85	5	3299	A	C4-C5-C6	5.77	119.89	117.00
1	2	424	C	O5'-P-OP1	-5.77	100.51	105.70
1	2	1069	A	OP1-P-OP2	5.77	128.25	119.60
1	2	1658	C	C5-C6-N1	5.77	123.88	121.00
36	1	367	A	N7-C8-N9	5.77	116.68	113.80
36	1	659	G	N1-C6-O6	-5.77	116.44	119.90
36	1	716	A	P-O5'-C5'	-5.77	111.67	120.90
36	1	887	G	C5-N7-C8	5.77	107.18	104.30
36	1	942	U	OP1-P-OP2	-5.77	110.95	119.60
36	1	1469	C	C6-N1-C2	5.77	122.61	120.30
36	1	2304	C	O5'-P-OP1	-5.77	100.51	105.70
36	1	2418	G	C5-C6-O6	-5.77	125.14	128.60
36	1	2855	U	C2-N3-C4	-5.77	123.54	127.00
36	1	2951	G	C6-C5-N7	5.77	133.86	130.40
36	1	2957	G	N3-C4-N9	-5.77	122.54	126.00
38	4	63	G	C4-C5-N7	5.77	113.11	110.80
80	6	154	G	C5-C6-O6	-5.77	125.14	128.60
80	6	476	U	N3-C4-C5	-5.77	111.14	114.60
80	6	845	G	C8-N9-C1'	5.77	134.50	127.00
80	6	899	G	N3-C4-C5	5.77	131.48	128.60
80	6	991	G	OP1-P-O3'	5.77	117.89	105.20
85	5	1280	C	N3-C2-O2	-5.77	117.86	121.90
85	5	2399	A	C8-N9-C4	-5.77	103.49	105.80
85	5	2597	U	N1-C2-N3	-5.77	111.44	114.90
85	5	2801	A	C4-C5-C6	-5.77	114.12	117.00
85	5	3022	G	C4-C5-N7	-5.77	108.49	110.80
36	1	2414	G	O4'-C1'-N9	-5.77	103.59	108.20
38	4	44	A	C5-C6-N6	-5.77	119.09	123.70
80	6	750	U	C6-N1-C2	-5.77	117.54	121.00
80	6	1153	G	N1-C6-O6	-5.77	116.44	119.90
85	5	641	C	OP1-P-OP2	5.77	128.25	119.60
85	5	1358	C	C5-C6-N1	-5.77	118.12	121.00
85	5	3341	U	N3-C2-O2	-5.77	118.16	122.20
36	1	111	C	N1-C2-O2	-5.76	115.44	118.90
36	1	132	C	C6-N1-C2	-5.76	117.99	120.30
36	1	174	C	C6-N1-C2	5.76	122.61	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	646	A	N1-C6-N6	-5.76	115.14	118.60
36	1	1448	U	C4-C5-C6	5.76	123.16	119.70
36	1	1517	G	C8-N9-C4	-5.76	104.09	106.40
36	1	1940	G	C5-C6-N1	-5.76	108.62	111.50
36	1	2370	G	C2-N3-C4	5.76	114.78	111.90
36	1	2580	A	N1-C6-N6	-5.76	115.14	118.60
36	1	2776	C	C2-N1-C1'	5.76	125.14	118.80
36	1	2929	C	N3-C4-C5	-5.76	119.59	121.90
36	1	2971	A	OP1-P-O3'	-5.76	92.52	105.20
37	3	68	C	O5'-P-OP2	-5.76	100.51	105.70
38	4	131	A	N3-C4-C5	-5.76	122.77	126.80
80	6	137	U	C5-C6-N1	5.76	125.58	122.70
80	6	252	U	C6-N1-C2	5.76	124.46	121.00
80	6	272	U	O5'-P-OP1	5.76	117.62	110.70
80	6	480	G	C5-C6-N1	-5.76	108.62	111.50
80	6	570	A	O5'-P-OP1	5.76	117.62	110.70
80	6	864	U	C2-N3-C4	-5.76	123.54	127.00
85	5	346	C	N3-C2-O2	-5.76	117.86	121.90
85	5	504	A	N1-C6-N6	5.76	122.06	118.60
85	5	677	A	C8-N9-C4	-5.76	103.49	105.80
85	5	1466	G	N1-C6-O6	5.76	123.36	119.90
85	5	1469	C	O5'-P-OP1	5.76	117.62	110.70
85	5	1861	G	C4-C5-N7	5.76	113.11	110.80
85	5	2713	U	C5-C6-N1	5.76	125.58	122.70
85	5	2861	U	O5'-P-OP1	5.76	117.62	110.70
1	2	734	G	C2-N3-C4	-5.76	109.02	111.90
36	1	255	A	C5-C6-N6	5.76	128.31	123.70
36	1	279	U	C5-C4-O4	5.76	129.36	125.90
36	1	617	G	C8-N9-C4	-5.76	104.09	106.40
36	1	845	G	C4-C5-C6	5.76	122.26	118.80
36	1	1052	U	C4-C5-C6	-5.76	116.24	119.70
36	1	1386	A	N3-C4-C5	-5.76	122.77	126.80
36	1	2364	G	O4'-C1'-N9	5.76	112.81	108.20
36	1	2701	U	C2-N1-C1'	5.76	124.62	117.70
36	1	2787	G	C8-N9-C4	-5.76	104.09	106.40
36	1	3052	G	N7-C8-N9	5.76	115.98	113.10
80	6	339	C	C2-N3-C4	-5.76	117.02	119.90
80	6	1330	G	C4-C5-C6	5.76	122.26	118.80
85	5	14	U	C2-N3-C4	-5.76	123.54	127.00
85	5	791	A	O5'-P-OP1	5.76	117.61	110.70
85	5	1651	U	N1-C2-O2	-5.76	118.77	122.80
85	5	2101	C	N1-C2-O2	5.76	122.36	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2342	U	O5'-P-OP2	-5.76	100.51	105.70
85	5	3227	A	C4-C5-C6	5.76	119.88	117.00
72	o6	76	ARG	NE-CZ-NH1	5.76	123.18	120.30
1	2	104	A	N9-C4-C5	5.76	108.10	105.80
1	2	497	G	P-O3'-C3'	5.76	126.61	119.70
1	2	919	G	C2-N3-C4	5.76	114.78	111.90
1	2	1650	A	N3-C4-C5	5.76	130.83	126.80
36	1	136	G	C4-C5-N7	-5.76	108.50	110.80
36	1	316	U	C5-C6-N1	5.76	125.58	122.70
36	1	646	A	C4-C5-N7	-5.76	107.82	110.70
36	1	680	G	N9-C4-C5	-5.76	103.09	105.40
36	1	1355	A	OP1-P-O3'	-5.76	92.52	105.20
36	1	1802	C	N3-C4-N4	5.76	122.03	118.00
36	1	2204	C	N3-C4-N4	5.76	122.03	118.00
36	1	2355	G	N3-C2-N2	-5.76	115.87	119.90
36	1	2942	C	C2-N1-C1'	-5.76	112.46	118.80
80	6	984	G	OP1-P-OP2	-5.76	110.96	119.60
85	5	802	C	N3-C4-N4	5.76	122.03	118.00
85	5	1063	G	OP1-P-OP2	-5.76	110.96	119.60
85	5	1132	C	N3-C4-N4	-5.76	113.97	118.00
85	5	1139	G	OP2-P-O3'	5.76	117.88	105.20
85	5	1333	C	N1-C2-O2	-5.76	115.44	118.90
85	5	2230	C	C5-C6-N1	5.76	123.88	121.00
85	5	2793	G	N9-C4-C5	-5.76	103.10	105.40
1	2	908	G	N3-C4-N9	5.76	129.46	126.00
1	2	1351	G	C6-C5-N7	-5.76	126.94	130.40
36	1	499	G	OP2-P-O3'	5.76	117.87	105.20
36	1	575	G	OP2-P-O3'	5.76	117.87	105.20
36	1	980	A	C5-N7-C8	5.76	106.78	103.90
36	1	1307	G	C5-C6-N1	5.76	114.38	111.50
36	1	1414	G	C5-C6-N1	-5.76	108.62	111.50
36	1	1469	C	OP1-P-OP2	5.76	128.24	119.60
36	1	1580	A	C8-N9-C4	-5.76	103.50	105.80
36	1	2239	G	OP1-P-O3'	5.76	117.87	105.20
36	1	2320	A	OP2-P-O3'	5.76	117.87	105.20
36	1	2509	U	N3-C2-O2	5.76	126.23	122.20
36	1	2831	G	OP2-P-O3'	5.76	117.87	105.20
36	1	3021	A	OP2-P-O3'	5.76	117.87	105.20
36	1	3043	C	N3-C4-C5	5.76	124.20	121.90
36	1	3048	A	N1-C2-N3	5.76	132.18	129.30
38	4	65	A	OP2-P-O3'	5.76	117.87	105.20
80	6	156	A	OP2-P-O3'	5.76	117.87	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1728	A	N9-C4-C5	-5.76	103.50	105.80
85	5	1318	A	C2-N3-C4	-5.76	107.72	110.60
85	5	2096	A	O5'-P-OP2	5.76	117.61	110.70
85	5	2355	G	N1-C2-N2	-5.76	111.02	116.20
85	5	2640	A	N3-C4-N9	5.76	132.01	127.40
85	5	2819	A	C2-N3-C4	-5.76	107.72	110.60
85	5	3102	G	C8-N9-C4	5.76	108.70	106.40
38	8	1	A	OP1-P-OP2	5.76	128.24	119.60
1	2	97	C	O5'-P-OP1	-5.76	100.52	105.70
36	1	99	A	N9-C4-C5	-5.76	103.50	105.80
36	1	306	A	O4'-C1'-N9	-5.76	103.59	108.20
36	1	354	U	N3-C4-O4	5.76	123.43	119.40
36	1	417	A	C6-C5-N7	-5.76	128.27	132.30
36	1	776	U	N1-C2-O2	5.76	126.83	122.80
36	1	1522	U	O5'-P-OP2	-5.76	100.52	105.70
36	1	1551	C	C6-N1-C2	-5.76	118.00	120.30
36	1	2930	A	C8-N9-C4	5.76	108.10	105.80
38	4	79	A	C6-C5-N7	5.76	136.33	132.30
85	5	1188	U	C5-C4-O4	-5.76	122.44	125.90
85	5	1419	A	C5-C6-N6	-5.76	119.09	123.70
85	5	1947	G	N3-C4-N9	5.76	129.46	126.00
1	2	163	G	N1-C2-N3	5.76	127.35	123.90
1	2	335	U	C6-N1-C2	-5.76	117.55	121.00
1	2	872	U	N1-C2-N3	-5.76	111.45	114.90
1	2	1520	C	N3-C4-N4	5.76	122.03	118.00
36	1	883	A	C5-C6-N6	5.76	128.31	123.70
36	1	1018	G	C5-N7-C8	5.76	107.18	104.30
36	1	1340	G	C8-N9-C4	5.76	108.70	106.40
36	1	1553	U	C6-N1-C2	5.76	124.45	121.00
36	1	1565	G	N7-C8-N9	5.76	115.98	113.10
36	1	1886	A	C6-N1-C2	-5.76	115.15	118.60
36	1	2107	A	C5-N7-C8	5.76	106.78	103.90
38	4	61	A	N3-C4-C5	-5.76	122.77	126.80
80	6	253	A	O5'-P-OP2	-5.76	100.52	105.70
80	6	429	G	N1-C6-O6	5.76	123.35	119.90
80	6	602	U	N3-C2-O2	-5.76	118.17	122.20
80	6	1671	A	OP1-P-OP2	-5.76	110.97	119.60
85	5	1098	A	O5'-P-OP1	5.76	117.61	110.70
85	5	1395	G	OP1-P-O3'	-5.76	92.53	105.20
85	5	1472	U	C5-C4-O4	5.76	129.35	125.90
85	5	2421	U	N3-C4-O4	5.76	123.43	119.40
85	5	3083	G	N3-C2-N2	5.76	123.93	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	739	A	O5'-P-OP1	5.75	117.61	110.70
1	2	1336	U	N3-C4-O4	5.75	123.43	119.40
36	1	1053	A	N7-C8-N9	-5.75	110.92	113.80
36	1	1416	C	C5-C4-N4	-5.75	116.17	120.20
36	1	3318	G	C8-N9-C4	-5.75	104.10	106.40
37	3	36	C	C5-C6-N1	5.75	123.88	121.00
80	6	358	U	N1-C2-N3	5.75	118.35	114.90
80	6	796	A	C6-N1-C2	-5.75	115.15	118.60
80	6	891	A	N1-C2-N3	5.75	132.18	129.30
85	5	519	A	N1-C2-N3	-5.75	126.42	129.30
85	5	746	A	N9-C4-C5	5.75	108.10	105.80
85	5	1033	U	N1-C2-O2	5.75	126.83	122.80
85	5	2855	U	C2-N3-C4	-5.75	123.55	127.00
85	5	3315	G	N3-C4-C5	-5.75	125.72	128.60
38	8	60	U	N3-C4-C5	5.75	118.05	114.60
1	2	456	A	C8-N9-C4	-5.75	103.50	105.80
1	2	1111	C	C2-N3-C4	-5.75	117.02	119.90
1	2	1485	G	C5-C6-N1	5.75	114.38	111.50
36	1	163	C	N3-C4-C5	5.75	124.20	121.90
36	1	169	U	N3-C2-O2	5.75	126.23	122.20
36	1	1101	G	C6-N1-C2	-5.75	121.65	125.10
36	1	1356	U	N1-C2-O2	5.75	126.83	122.80
36	1	1370	G	C6-C5-N7	-5.75	126.95	130.40
36	1	1681	U	N3-C4-C5	5.75	118.05	114.60
36	1	1923	C	OP2-P-O3'	-5.75	92.54	105.20
36	1	2101	C	C6-N1-C2	5.75	122.60	120.30
36	1	2310	U	C5-C4-O4	5.75	129.35	125.90
36	1	2351	U	C5-C4-O4	-5.75	122.45	125.90
36	1	3355	U	C6-N1-C2	-5.75	117.55	121.00
37	3	64	A	C5-C6-N1	5.75	120.58	117.70
38	4	69	U	N1-C2-O2	-5.75	118.77	122.80
80	6	190	C	OP1-P-OP2	-5.75	110.97	119.60
80	6	555	A	C5-N7-C8	-5.75	101.02	103.90
80	6	857	U	N3-C2-O2	5.75	126.23	122.20
80	6	1281	G	C5-C6-N1	5.75	114.38	111.50
80	6	1346	A	N1-C2-N3	-5.75	126.42	129.30
80	6	1752	U	C4-C5-C6	5.75	123.15	119.70
85	5	833	G	OP2-P-O3'	5.75	117.86	105.20
85	5	834	U	N1-C2-O2	-5.75	118.77	122.80
85	5	879	U	C4-C5-C6	5.75	123.15	119.70
85	5	1305	U	N3-C4-C5	-5.75	111.15	114.60
85	5	1461	A	C5-C6-N1	5.75	120.58	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1555	U	C5-C4-O4	5.75	129.35	125.90
85	5	1778	G	N3-C4-N9	5.75	129.45	126.00
85	5	3135	U	C2-N3-C4	-5.75	123.55	127.00
37	7	60	G	C5-C6-N1	5.75	114.38	111.50
38	8	144	G	N1-C2-N3	-5.75	120.45	123.90
1	2	267	U	C5-C6-N1	-5.75	119.82	122.70
1	2	324	U	OP1-P-OP2	5.75	128.23	119.60
1	2	735	A	C6-N1-C2	5.75	122.05	118.60
1	2	1414	C	O4'-C1'-N1	-5.75	103.60	108.20
36	1	399	A	OP1-P-OP2	-5.75	110.97	119.60
36	1	601	U	C5-C4-O4	5.75	129.35	125.90
36	1	635	G	C2-N3-C4	5.75	114.78	111.90
36	1	1115	G	N3-C4-N9	-5.75	122.55	126.00
36	1	1134	G	O5'-P-OP2	5.75	117.60	110.70
36	1	1432	C	P-O3'-C3'	5.75	126.60	119.70
36	1	1589	A	N7-C8-N9	5.75	116.68	113.80
36	1	1768	U	N1-C2-N3	-5.75	111.45	114.90
36	1	2355	G	C6-N1-C2	5.75	128.55	125.10
36	1	2430	A	C2-N3-C4	-5.75	107.72	110.60
36	1	2615	G	N1-C2-N3	5.75	127.35	123.90
38	4	29	U	C5-C6-N1	-5.75	119.82	122.70
38	4	74	U	N1-C2-N3	5.75	118.35	114.90
80	6	196	G	N7-C8-N9	-5.75	110.22	113.10
80	6	558	U	N1-C2-N3	-5.75	111.45	114.90
80	6	591	A	C6-C5-N7	5.75	136.33	132.30
80	6	1048	G	C5-C6-N1	5.75	114.38	111.50
85	5	240	U	O5'-P-OP1	5.75	117.60	110.70
85	5	652	G	C6-N1-C2	-5.75	121.65	125.10
85	5	966	U	OP2-P-O3'	5.75	117.86	105.20
85	5	1087	G	C5-C6-O6	-5.75	125.15	128.60
85	5	1090	G	N3-C2-N2	-5.75	115.87	119.90
85	5	1106	G	N3-C4-C5	5.75	131.48	128.60
85	5	1478	C	C5-C6-N1	-5.75	118.12	121.00
85	5	2836	C	N3-C4-N4	5.75	122.03	118.00
85	5	2933	A	N3-C4-C5	-5.75	122.77	126.80
37	7	48	U	C5-C6-N1	5.75	125.58	122.70
38	8	14	C	C4-C5-C6	5.75	120.28	117.40
38	8	133	G	C5-C6-O6	-5.75	125.15	128.60
1	2	1602	C	N3-C4-C5	5.75	124.20	121.90
36	1	619	A	C2-N3-C4	-5.75	107.72	110.60
80	6	1209	C	C5-C4-N4	-5.75	116.17	120.20
85	5	1433	A	OP2-P-O3'	5.75	117.85	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2605	G	N7-C8-N9	5.75	115.97	113.10
38	8	81	U	C5-C4-O4	5.75	129.35	125.90
1	2	313	U	C2-N3-C4	-5.75	123.55	127.00
1	2	460	A	C2-N3-C4	-5.75	107.73	110.60
1	2	540	G	N3-C4-N9	5.75	129.45	126.00
1	2	1282	G	N9-C4-C5	5.75	107.70	105.40
36	1	206	G	OP1-P-OP2	-5.75	110.98	119.60
36	1	378	A	O4'-C1'-N9	-5.75	103.60	108.20
36	1	568	G	C4-C5-C6	5.75	122.25	118.80
36	1	2145	A	C2-N3-C4	-5.75	107.73	110.60
36	1	2644	C	N1-C2-O2	5.75	122.35	118.90
36	1	2996	U	N1-C2-O2	5.75	126.82	122.80
80	6	551	G	O5'-P-OP2	5.75	117.60	110.70
85	5	406	G	N9-C4-C5	5.75	107.70	105.40
85	5	524	U	OP1-P-OP2	-5.75	110.98	119.60
85	5	567	G	N1-C6-O6	5.75	123.35	119.90
85	5	588	G	C8-N9-C4	5.75	108.70	106.40
85	5	909	G	C8-N9-C4	5.75	108.70	106.40
85	5	1084	A	O5'-P-OP1	5.75	117.60	110.70
85	5	2168	A	C5-N7-C8	-5.75	101.03	103.90
85	5	3231	U	O4'-C1'-N1	5.75	112.80	108.20
1	2	691	C	C6-N1-C2	-5.75	118.00	120.30
1	2	954	A	C4-C5-N7	-5.75	107.83	110.70
36	1	1075	A	C5-N7-C8	-5.75	101.03	103.90
36	1	1483	G	C5-C6-O6	5.75	132.05	128.60
36	1	1880	U	N1-C2-O2	-5.75	118.78	122.80
36	1	2270	A	OP1-P-OP2	5.75	128.22	119.60
36	1	2514	U	O5'-P-OP1	-5.75	100.53	105.70
36	1	2628	A	N3-C4-C5	-5.75	122.78	126.80
80	6	115	G	C6-N1-C2	-5.75	121.65	125.10
80	6	264	G	C4-N9-C1'	-5.75	119.03	126.50
80	6	520	A	O5'-P-OP2	-5.75	100.53	105.70
80	6	596	C	C6-N1-C2	-5.75	118.00	120.30
80	6	942	G	C5-C6-N1	5.75	114.37	111.50
85	5	625	G	C6-C5-N7	5.75	133.85	130.40
85	5	688	G	C4-C5-N7	-5.75	108.50	110.80
85	5	1324	U	OP1-P-OP2	-5.75	110.98	119.60
85	5	1349	G	C6-C5-N7	5.75	133.85	130.40
85	5	1598	G	N9-C4-C5	-5.75	103.10	105.40
85	5	1682	U	C6-N1-C2	-5.75	117.55	121.00
85	5	2408	U	C6-N1-C2	-5.75	117.55	121.00
85	5	2896	A	N1-C6-N6	5.75	122.05	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3355	U	O5'-P-OP2	5.75	117.60	110.70
37	7	20	A	N1-C2-N3	5.75	132.17	129.30
1	2	1438	G	OP1-P-O3'	5.75	117.84	105.20
36	1	937	G	O5'-P-OP2	-5.75	100.53	105.70
36	1	1311	G	OP2-P-O3'	5.75	117.84	105.20
36	1	3200	G	C4-C5-C6	5.75	122.25	118.80
80	6	1017	U	C5-C4-O4	-5.75	122.45	125.90
80	6	1304	G	N3-C4-C5	-5.75	125.73	128.60
85	5	308	A	O5'-P-OP2	-5.75	100.53	105.70
85	5	366	A	OP1-P-O3'	5.75	117.84	105.20
85	5	718	G	C5-C6-N1	5.75	114.37	111.50
85	5	1371	G	C8-N9-C4	5.75	108.70	106.40
85	5	1555	U	C2-N3-C4	-5.75	123.55	127.00
85	5	2808	A	N9-C4-C5	5.75	108.10	105.80
1	2	40	A	N7-C8-N9	-5.74	110.93	113.80
1	2	294	C	N3-C4-C5	-5.74	119.60	121.90
36	1	9	U	C2-N3-C4	-5.74	123.55	127.00
36	1	182	U	C5-C4-O4	5.74	129.35	125.90
36	1	334	A	C5-C6-N6	-5.74	119.11	123.70
36	1	885	U	C4-C5-C6	-5.74	116.25	119.70
36	1	1361	U	N1-C2-O2	-5.74	118.78	122.80
36	1	1559	A	N1-C2-N3	5.74	132.17	129.30
36	1	1859	A	C8-N9-C4	5.74	108.10	105.80
36	1	3390	G	N9-C4-C5	-5.74	103.10	105.40
37	3	98	C	OP1-P-OP2	-5.74	110.98	119.60
38	4	19	C	N3-C4-N4	5.74	122.02	118.00
80	6	269	G	C5-C6-N1	5.74	114.37	111.50
80	6	537	G	OP1-P-OP2	5.74	128.22	119.60
85	5	183	G	N9-C4-C5	5.74	107.70	105.40
85	5	313	A	C6-C5-N7	-5.74	128.28	132.30
85	5	420	G	C5-C6-N1	5.74	114.37	111.50
85	5	684	G	N3-C4-N9	-5.74	122.55	126.00
85	5	691	A	C8-N9-C4	-5.74	103.50	105.80
85	5	1192	C	O5'-P-OP1	-5.74	100.53	105.70
85	5	1282	G	C8-N9-C4	5.74	108.70	106.40
85	5	2746	A	C5-N7-C8	-5.74	101.03	103.90
85	5	2899	C	N1-C2-O2	-5.74	115.45	118.90
85	5	2988	C	O5'-P-OP1	5.74	117.59	110.70
85	5	3350	C	O5'-P-OP1	5.74	117.59	110.70
1	2	254	A	C4-C5-N7	5.74	113.57	110.70
1	2	559	C	C6-N1-C2	-5.74	118.00	120.30
1	2	1130	A	C8-N9-C4	-5.74	103.50	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1137	G	N3-C4-C5	5.74	131.47	128.60
1	2	1284	U	OP1-P-OP2	5.74	128.21	119.60
36	1	289	A	O5'-P-OP1	-5.74	100.53	105.70
36	1	868	C	C6-N1-C1'	-5.74	113.91	120.80
36	1	1647	A	C5-C6-N1	-5.74	114.83	117.70
80	6	1765	A	C5-C6-N6	5.74	128.29	123.70
85	5	193	C	O5'-P-OP2	5.74	117.59	110.70
85	5	973	A	C6-N1-C2	5.74	122.05	118.60
85	5	2838	A	N1-C6-N6	-5.74	115.16	118.60
1	2	230	C	C5-C6-N1	-5.74	118.13	121.00
1	2	265	A	C8-N9-C4	5.74	108.10	105.80
1	2	387	A	C5-N7-C8	-5.74	101.03	103.90
1	2	624	G	C5-C6-N1	5.74	114.37	111.50
36	1	181	U	C5-C6-N1	5.74	125.57	122.70
36	1	752	C	C2-N3-C4	-5.74	117.03	119.90
36	1	2207	A	C8-N9-C4	-5.74	103.50	105.80
36	1	2638	C	N3-C4-N4	5.74	122.02	118.00
36	1	2821	C	N3-C4-N4	5.74	122.02	118.00
38	4	36	G	C5-C6-N1	-5.74	108.63	111.50
52	M6	84	LEU	CB-CG-CD2	-5.74	101.24	111.00
67	O1	89	LEU	CB-CG-CD2	-5.74	101.24	111.00
80	6	315	A	C2-N3-C4	5.74	113.47	110.60
80	6	530	C	N3-C4-C5	5.74	124.20	121.90
80	6	824	G	C6-C5-N7	-5.74	126.95	130.40
80	6	1381	U	N3-C2-O2	-5.74	118.18	122.20
80	6	1558	U	N3-C2-O2	5.74	126.22	122.20
85	5	33	G	C5-C6-N1	5.74	114.37	111.50
85	5	244	G	N3-C4-C5	5.74	131.47	128.60
85	5	2566	C	C2-N3-C4	5.74	122.77	119.90
85	5	2584	G	C6-N1-C2	-5.74	121.66	125.10
85	5	2677	G	N9-C4-C5	-5.74	103.10	105.40
40	l3	214	MET	CB-CG-SD	-5.74	95.18	112.40
59	n3	15	LEU	CB-CG-CD2	-5.74	101.24	111.00
36	1	156	G	N3-C4-C5	-5.74	125.73	128.60
36	1	1305	U	OP1-P-OP2	5.74	128.21	119.60
36	1	1411	C	N3-C4-N4	5.74	122.02	118.00
36	1	2541	U	N3-C4-C5	5.74	118.04	114.60
36	1	2607	G	N1-C2-N3	5.74	127.34	123.90
36	1	2844	C	C5-C6-N1	5.74	123.87	121.00
36	1	2953	U	O5'-P-OP2	5.74	117.59	110.70
36	1	3208	G	O5'-P-OP1	-5.74	100.53	105.70
36	1	3387	U	C5-C4-O4	5.74	129.34	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	133	G	OP1-P-OP2	-5.74	110.99	119.60
41	L4	202	ARG	NE-CZ-NH1	5.74	123.17	120.30
80	6	39	A	C6-N1-C2	-5.74	115.16	118.60
80	6	338	C	N3-C2-O2	5.74	125.92	121.90
80	6	1073	G	C4-C5-N7	-5.74	108.50	110.80
80	6	1477	G	C8-N9-C4	5.74	108.69	106.40
80	6	1490	C	N3-C4-N4	5.74	122.02	118.00
85	5	252	U	N3-C4-O4	5.74	123.42	119.40
85	5	304	G	C6-N1-C2	-5.74	121.66	125.10
85	5	778	U	O5'-P-OP2	5.74	117.59	110.70
85	5	970	A	C4-C5-N7	-5.74	107.83	110.70
85	5	1099	A	N1-C2-N3	5.74	132.17	129.30
85	5	1140	G	C6-N1-C2	-5.74	121.66	125.10
85	5	1316	C	N1-C2-N3	5.74	123.22	119.20
85	5	1423	C	C5-C6-N1	5.74	123.87	121.00
85	5	1533	U	N3-C4-O4	5.74	123.42	119.40
85	5	2638	C	N3-C2-O2	5.74	125.92	121.90
85	5	2676	A	C6-C5-N7	-5.74	128.28	132.30
85	5	3105	U	OP2-P-O3'	5.74	117.83	105.20
1	2	375	U	C2-N3-C4	-5.74	123.56	127.00
1	2	757	A	C5-N7-C8	-5.74	101.03	103.90
1	2	1315	C	C5-C6-N1	5.74	123.87	121.00
36	1	667	C	C4-C5-C6	-5.74	114.53	117.40
36	1	2937	G	O4'-C1'-N9	-5.74	103.61	108.20
36	1	3330	A	C5-C6-N6	-5.74	119.11	123.70
85	5	665	A	N7-C8-N9	5.74	116.67	113.80
85	5	1109	U	OP1-P-O3'	5.74	117.82	105.20
85	5	1375	G	OP1-P-OP2	5.74	128.21	119.60
85	5	1511	U	N3-C4-O4	-5.74	115.38	119.40
85	5	1606	U	C6-N1-C2	-5.74	117.56	121.00
85	5	1753	G	N3-C2-N2	-5.74	115.88	119.90
85	5	2138	A	C6-C5-N7	-5.74	128.28	132.30
85	5	3287	U	C6-N1-C2	-5.74	117.56	121.00
1	2	558	U	C2-N3-C4	5.74	130.44	127.00
1	2	1226	G	C2-N3-C4	5.74	114.77	111.90
1	2	1523	G	C5-C6-N1	-5.74	108.63	111.50
1	2	1743	G	C2-N3-C4	5.74	114.77	111.90
36	1	210	U	O5'-P-OP2	-5.74	100.54	105.70
36	1	420	G	N3-C4-N9	5.74	129.44	126.00
36	1	559	A	C4-C5-N7	5.74	113.57	110.70
36	1	1156	C	C4-C5-C6	5.74	120.27	117.40
36	1	1657	C	N3-C2-O2	-5.74	117.89	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	3	49	G	N3-C2-N2	5.74	123.91	119.90
80	6	163	G	C5-C6-N1	-5.74	108.63	111.50
80	6	484	C	N3-C4-N4	5.74	122.02	118.00
80	6	1570	A	C2-N3-C4	5.74	113.47	110.60
85	5	98	G	C5-C6-O6	-5.74	125.16	128.60
85	5	162	G	OP1-P-OP2	-5.74	111.00	119.60
85	5	234	G	O5'-P-OP2	-5.74	100.54	105.70
85	5	240	U	N3-C2-O2	-5.74	118.19	122.20
85	5	271	C	N1-C2-O2	5.74	122.34	118.90
85	5	418	A	C5-C6-N1	-5.74	114.83	117.70
85	5	1377	G	O5'-P-OP1	-5.74	100.54	105.70
85	5	2100	A	C5-C6-N6	5.74	128.29	123.70
85	5	2190	U	C6-N1-C2	-5.74	117.56	121.00
85	5	2592	G	C8-N9-C4	5.74	108.69	106.40
85	5	2699	G	N7-C8-N9	-5.74	110.23	113.10
85	5	2949	U	C6-N1-C2	-5.74	117.56	121.00
85	5	3011	A	N1-C6-N6	5.74	122.04	118.60
85	5	3386	G	C4-C5-N7	-5.74	108.51	110.80
1	2	1372	C	C5-C6-N1	5.73	123.87	121.00
36	1	99	A	C4-C5-N7	5.73	113.57	110.70
36	1	300	G	C8-N9-C4	5.73	108.69	106.40
36	1	329	U	N3-C2-O2	-5.73	118.19	122.20
36	1	793	C	O5'-P-OP1	5.73	117.58	110.70
36	1	1454	A	C4-C5-C6	5.73	119.87	117.00
36	1	3310	A	C4-C5-N7	5.73	113.57	110.70
80	6	1012	U	C5-C6-N1	-5.73	119.83	122.70
85	5	60	A	C5-N7-C8	5.73	106.77	103.90
85	5	941	G	C4-C5-N7	5.73	113.09	110.80
85	5	945	C	C2-N3-C4	-5.73	117.03	119.90
85	5	1153	A	N9-C4-C5	5.73	108.09	105.80
85	5	1618	G	N9-C4-C5	-5.73	103.11	105.40
85	5	2668	U	N3-C2-O2	5.73	126.21	122.20
41	14	177	ASP	CB-CG-OD2	-5.73	113.14	118.30
1	2	318	U	N1-C2-O2	-5.73	118.79	122.80
1	2	442	C	N1-C2-N3	5.73	123.21	119.20
36	1	32	U	C6-N1-C2	-5.73	117.56	121.00
36	1	496	C	N3-C4-N4	-5.73	113.99	118.00
36	1	677	A	N1-C6-N6	-5.73	115.16	118.60
36	1	937	G	N1-C2-N3	5.73	127.34	123.90
36	1	1366	A	N1-C2-N3	-5.73	126.43	129.30
36	1	1909	A	N1-C2-N3	5.73	132.17	129.30
36	1	2160	G	OP2-P-O3'	5.73	117.81	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2270	A	C4-C5-C6	-5.73	114.13	117.00
36	1	2812	C	C4-C5-C6	-5.73	114.53	117.40
38	4	38	U	OP1-P-OP2	5.73	128.20	119.60
80	6	84	A	N9-C4-C5	-5.73	103.51	105.80
80	6	469	C	C6-N1-C1'	-5.73	113.92	120.80
80	6	963	A	N7-C8-N9	-5.73	110.93	113.80
80	6	1465	C	N3-C4-C5	-5.73	119.61	121.90
85	5	626	U	OP1-P-OP2	-5.73	111.00	119.60
85	5	1883	A	N3-C4-C5	5.73	130.81	126.80
85	5	2305	G	N7-C8-N9	5.73	115.97	113.10
85	5	2774	C	OP1-P-OP2	5.73	128.20	119.60
85	5	3042	U	N3-C4-O4	5.73	123.41	119.40
53	m7	89	LYS	CD-CE-NZ	5.73	124.89	111.70
1	2	538	A	C6-N1-C2	5.73	122.04	118.60
1	2	1296	A	C5-C6-N6	-5.73	119.12	123.70
1	2	1746	A	N3-C4-C5	5.73	130.81	126.80
36	1	105	C	OP2-P-O3'	-5.73	92.59	105.20
36	1	261	U	N3-C4-O4	-5.73	115.39	119.40
36	1	678	G	C4-N9-C1'	5.73	133.95	126.50
36	1	730	C	C5-C6-N1	-5.73	118.14	121.00
36	1	846	A	N3-C4-N9	-5.73	122.81	127.40
36	1	984	G	OP2-P-O3'	5.73	117.81	105.20
36	1	1112	A	N1-C6-N6	-5.73	115.16	118.60
36	1	1222	G	N1-C2-N3	5.73	127.34	123.90
36	1	1440	G	C5-C6-O6	-5.73	125.16	128.60
36	1	2664	C	OP1-P-OP2	-5.73	111.00	119.60
36	1	2799	A	C4-C5-N7	-5.73	107.83	110.70
36	1	3342	A	C5-N7-C8	-5.73	101.03	103.90
38	4	82	U	O5'-P-OP2	-5.73	100.54	105.70
80	6	66	U	N3-C4-O4	5.73	123.41	119.40
80	6	851	U	C6-N1-C2	5.73	124.44	121.00
80	6	1041	G	N1-C6-O6	5.73	123.34	119.90
80	6	1064	G	C4-C5-N7	5.73	113.09	110.80
85	5	641	C	OP2-P-O3'	5.73	117.81	105.20
85	5	1053	A	C6-C5-N7	-5.73	128.29	132.30
85	5	1081	U	OP1-P-OP2	-5.73	111.00	119.60
85	5	1250	G	P-O3'-C3'	5.73	126.58	119.70
85	5	1421	G	OP1-P-OP2	-5.73	111.00	119.60
85	5	1506	A	C4-C5-C6	-5.73	114.14	117.00
85	5	1894	U	C6-N1-C2	5.73	124.44	121.00
85	5	2673	A	N1-C2-N3	5.73	132.16	129.30
85	5	3126	C	C4-C5-C6	-5.73	114.53	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3361	G	N3-C4-C5	-5.73	125.73	128.60
36	1	2805	G	N1-C2-N2	-5.73	111.04	116.20
36	1	2943	G	C4-C5-C6	5.73	122.24	118.80
85	5	509	U	C6-N1-C1'	5.73	129.22	121.20
85	5	815	G	C5-N7-C8	5.73	107.16	104.30
85	5	1184	A	OP2-P-O3'	5.73	117.80	105.20
85	5	3145	C	O4'-C1'-N1	-5.73	103.62	108.20
37	7	98	C	N3-C4-C5	-5.73	119.61	121.90
1	2	1558	G	N3-C4-N9	5.73	129.44	126.00
36	1	73	C	C2-N3-C4	5.73	122.76	119.90
36	1	172	G	C8-N9-C4	5.73	108.69	106.40
36	1	565	U	N3-C4-C5	5.73	118.04	114.60
36	1	1614	C	C4-C5-C6	5.73	120.26	117.40
36	1	1622	U	OP2-P-O3'	5.73	117.80	105.20
36	1	1704	A	C5-N7-C8	5.73	106.76	103.90
36	1	1851	G	OP2-P-O3'	5.73	117.80	105.20
36	1	2406	C	OP1-P-OP2	-5.73	111.01	119.60
36	1	2428	U	C5-C4-O4	-5.73	122.46	125.90
36	1	3361	G	N3-C4-N9	5.73	129.44	126.00
38	4	33	A	C6-C5-N7	-5.73	128.29	132.30
62	N6	63	LYS	CD-CE-NZ	-5.73	98.53	111.70
80	6	153	G	C5-C6-O6	-5.73	125.16	128.60
80	6	1301	U	O5'-P-OP2	-5.73	100.55	105.70
85	5	931	C	OP2-P-O3'	5.73	117.80	105.20
85	5	1075	A	C5-C6-N1	5.73	120.56	117.70
85	5	1154	A	C5-C6-N6	5.73	128.28	123.70
85	5	1416	C	OP2-P-O3'	5.73	117.80	105.20
85	5	1917	C	C4-C5-C6	5.73	120.26	117.40
85	5	1952	G	N1-C2-N3	-5.73	120.46	123.90
85	5	2125	A	OP2-P-O3'	5.73	117.80	105.20
85	5	2370	G	C5-C6-O6	5.73	132.04	128.60
85	5	2850	G	N1-C2-N3	5.73	127.34	123.90
85	5	3238	G	N3-C4-C5	5.73	131.46	128.60
85	5	3241	G	C6-C5-N7	-5.73	126.96	130.40
85	5	3394	U	C4-C5-C6	5.73	123.14	119.70
1	2	763	A	C5-C6-N1	-5.73	114.84	117.70
1	2	1292	C	C2-N3-C4	-5.73	117.04	119.90
36	1	78	U	N1-C2-N3	5.73	118.33	114.90
36	1	227	G	N1-C6-O6	5.73	123.33	119.90
36	1	342	A	C2-N3-C4	5.73	113.46	110.60
36	1	851	C	C5-C6-N1	5.73	123.86	121.00
36	1	2185	G	C4-C5-N7	-5.73	108.51	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1279	C	C2-N3-C4	-5.73	117.04	119.90
85	5	210	U	N3-C2-O2	-5.73	118.19	122.20
85	5	600	G	N7-C8-N9	5.73	115.96	113.10
85	5	1205	A	O5'-P-OP2	-5.73	100.55	105.70
85	5	1430	U	OP2-P-O3'	5.73	117.80	105.20
85	5	2307	G	N7-C8-N9	-5.73	110.24	113.10
85	5	2672	G	C5-N7-C8	-5.73	101.44	104.30
85	5	3290	G	N7-C8-N9	5.73	115.96	113.10
1	2	692	C	C4-C5-C6	5.72	120.26	117.40
36	1	187	A	OP1-P-O3'	5.72	117.80	105.20
36	1	188	U	C5-C4-O4	-5.72	122.47	125.90
36	1	633	C	C5-C4-N4	-5.72	116.19	120.20
36	1	951	A	C6-C5-N7	-5.72	128.29	132.30
36	1	1545	A	OP1-P-OP2	-5.72	111.01	119.60
36	1	2160	G	N3-C4-C5	-5.72	125.74	128.60
36	1	2334	U	N3-C2-O2	-5.72	118.19	122.20
36	1	2508	U	C2-N3-C4	5.72	130.44	127.00
36	1	2828	G	C4-C5-N7	-5.72	108.51	110.80
36	1	2841	G	C6-N1-C2	-5.72	121.67	125.10
36	1	3184	A	C5-C6-N6	-5.72	119.12	123.70
38	4	123	G	N1-C6-O6	5.72	123.33	119.90
80	6	402	C	O5'-P-OP1	5.72	117.57	110.70
85	5	88	A	C5-C6-N6	5.72	128.28	123.70
85	5	1195	A	O5'-P-OP1	-5.72	100.55	105.70
85	5	1855	U	N1-C2-O2	5.72	126.81	122.80
85	5	2193	U	C2-N3-C4	-5.72	123.57	127.00
38	8	87	G	C4-C5-N7	-5.72	108.51	110.80
69	o3	57	LYS	CD-CE-NZ	5.72	124.87	111.70
1	2	464	A	C5-N7-C8	-5.72	101.04	103.90
1	2	1135	A	C5-C6-N6	-5.72	119.12	123.70
1	2	1224	G	C6-C5-N7	-5.72	126.97	130.40
1	2	1257	C	C2-N1-C1'	5.72	125.09	118.80
1	2	1440	C	O5'-P-OP1	5.72	117.57	110.70
36	1	505	G	N7-C8-N9	-5.72	110.24	113.10
36	1	1123	U	N1-C2-N3	-5.72	111.47	114.90
36	1	2434	U	N1-C2-O2	5.72	126.81	122.80
36	1	2716	U	C6-N1-C2	5.72	124.43	121.00
36	1	3068	U	OP1-P-O3'	5.72	117.79	105.20
80	6	83	G	C6-N1-C2	5.72	128.53	125.10
80	6	163	G	O4'-C1'-N9	-5.72	103.62	108.20
80	6	303	U	C5-C6-N1	-5.72	119.84	122.70
80	6	1415	U	O5'-P-OP2	-5.72	100.55	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	101	G	C4-C5-C6	5.72	122.23	118.80
85	5	505	G	C5-C6-O6	-5.72	125.17	128.60
85	5	577	C	N1-C2-O2	-5.72	115.47	118.90
85	5	1338	C	N1-C2-N3	5.72	123.21	119.20
85	5	1438	U	N1-C2-N3	5.72	118.33	114.90
85	5	1535	A	OP1-P-O3'	5.72	117.79	105.20
85	5	2415	C	C2-N1-C1'	5.72	125.09	118.80
85	5	2767	U	OP2-P-O3'	5.72	117.79	105.20
85	5	3140	G	OP1-P-O3'	5.72	117.79	105.20
37	7	63	A	C2-N3-C4	-5.72	107.74	110.60
38	8	23	U	O5'-P-OP1	-5.72	100.55	105.70
71	o5	36	LEU	CB-CG-CD1	-5.72	101.27	111.00
36	1	63	A	N9-C4-C5	-5.72	103.51	105.80
36	1	560	G	N3-C2-N2	-5.72	115.89	119.90
80	6	154	G	C6-N1-C2	-5.72	121.67	125.10
80	6	550	A	N1-C6-N6	-5.72	115.17	118.60
80	6	1061	A	N1-C6-N6	5.72	122.03	118.60
80	6	1692	G	N1-C2-N3	-5.72	120.47	123.90
85	5	1465	A	N1-C6-N6	-5.72	115.17	118.60
85	5	2343	C	O5'-P-OP2	5.72	117.57	110.70
85	5	2831	G	N3-C4-C5	-5.72	125.74	128.60
85	5	3047	U	N3-C4-O4	-5.72	115.40	119.40
38	8	54	A	O5'-P-OP1	-5.72	100.55	105.70
1	2	12	U	OP1-P-OP2	-5.72	111.02	119.60
36	1	376	G	N1-C2-N3	5.72	127.33	123.90
36	1	1461	A	O5'-P-OP1	5.72	117.56	110.70
36	1	1757	A	C6-N1-C2	5.72	122.03	118.60
36	1	1896	A	N1-C2-N3	5.72	132.16	129.30
36	1	2403	G	C6-C5-N7	-5.72	126.97	130.40
36	1	3182	G	N7-C8-N9	-5.72	110.24	113.10
36	1	3358	U	C2-N3-C4	-5.72	123.57	127.00
80	6	287	G	C5-C6-N1	5.72	114.36	111.50
80	6	459	G	C8-N9-C4	-5.72	104.11	106.40
80	6	596	C	N3-C2-O2	5.72	125.90	121.90
80	6	1102	G	N1-C2-N2	5.72	121.35	116.20
80	6	1340	U	C5-C6-N1	5.72	125.56	122.70
85	5	570	A	C5-C6-N6	-5.72	119.12	123.70
85	5	645	A	C6-C5-N7	5.72	136.30	132.30
85	5	831	G	N1-C6-O6	5.72	123.33	119.90
85	5	1397	C	C2-N1-C1'	5.72	125.09	118.80
85	5	1661	G	C4-C5-C6	-5.72	115.37	118.80
85	5	1678	G	N3-C4-C5	-5.72	125.74	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1838	G	N9-C4-C5	-5.72	103.11	105.40
85	5	2096	A	C6-C5-N7	-5.72	128.30	132.30
85	5	2251	G	C6-C5-N7	-5.72	126.97	130.40
85	5	2705	A	OP1-P-OP2	-5.72	111.02	119.60
1	2	352	A	C6-N1-C2	-5.72	115.17	118.60
36	1	126	U	C2-N3-C4	-5.72	123.57	127.00
36	1	1264	G	C5-C6-N1	-5.72	108.64	111.50
36	1	3174	A	C6-C5-N7	-5.72	128.30	132.30
85	5	1943	C	C5-C4-N4	-5.72	116.20	120.20
36	1	344	A	C6-N1-C2	5.72	122.03	118.60
36	1	624	G	C5-C6-O6	-5.72	125.17	128.60
36	1	750	G	C4-N9-C1'	5.72	133.93	126.50
36	1	923	C	C5-C6-N1	5.72	123.86	121.00
36	1	1765	U	O4'-C1'-N1	5.72	112.77	108.20
36	1	1799	A	N3-C4-N9	-5.72	122.83	127.40
36	1	2723	U	C5-C6-N1	-5.72	119.84	122.70
36	1	2800	G	N1-C2-N2	-5.72	111.05	116.20
36	1	3071	U	C5-C4-O4	5.72	129.33	125.90
36	1	3173	G	C6-N1-C2	-5.72	121.67	125.10
36	1	3207	U	O5'-P-OP2	-5.72	100.56	105.70
38	4	14	C	C2-N1-C1'	-5.72	112.51	118.80
75	O9	46	ARG	NE-CZ-NH2	-5.72	117.44	120.30
80	6	337	G	C2-N3-C4	5.72	114.76	111.90
80	6	596	C	OP1-P-O3'	5.72	117.78	105.20
80	6	893	U	C5-C6-N1	-5.72	119.84	122.70
80	6	1050	G	C5-C6-N1	-5.72	108.64	111.50
80	6	1790	A	C5-C6-N1	5.72	120.56	117.70
85	5	534	U	C2-N1-C1'	5.72	124.56	117.70
85	5	630	A	C8-N9-C1'	-5.72	117.41	127.70
85	5	933	A	N3-C4-C5	-5.72	122.80	126.80
85	5	1586	G	N3-C4-C5	-5.72	125.74	128.60
85	5	2403	G	O5'-P-OP1	5.72	117.56	110.70
85	5	2670	G	C8-N9-C4	-5.72	104.11	106.40
37	7	111	U	N3-C4-C5	-5.72	111.17	114.60
38	8	16	G	N1-C2-N2	-5.72	111.06	116.20
1	2	1144	C	N1-C2-O2	-5.71	115.47	118.90
1	2	1261	G	N7-C8-N9	5.71	115.96	113.10
1	2	1363	U	N1-C2-O2	5.71	126.80	122.80
1	2	1458	A	C2-N3-C4	-5.71	107.74	110.60
36	1	54	C	C5-C4-N4	-5.71	116.20	120.20
36	1	89	A	OP2-P-O3'	5.71	117.77	105.20
36	1	770	G	O4'-C1'-N9	5.71	112.77	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1005	G	N9-C4-C5	-5.71	103.11	105.40
36	1	1375	G	N1-C6-O6	5.71	123.33	119.90
36	1	2648	G	N3-C4-N9	-5.71	122.57	126.00
36	1	2671	A	OP2-P-O3'	5.71	117.77	105.20
36	1	2889	C	C5-C6-N1	-5.71	118.14	121.00
36	1	3135	U	OP1-P-O3'	5.71	117.77	105.20
37	3	111	U	C4-C5-C6	5.71	123.13	119.70
80	6	127	G	C5-N7-C8	-5.71	101.44	104.30
80	6	143	G	N1-C2-N3	5.71	127.33	123.90
85	5	189	G	OP1-P-OP2	5.71	128.17	119.60
85	5	577	C	O5'-P-OP2	-5.71	100.56	105.70
85	5	847	A	N9-C4-C5	5.71	108.08	105.80
85	5	1203	A	C4-C5-N7	-5.71	107.84	110.70
85	5	1349	G	C2-N3-C4	5.71	114.76	111.90
85	5	1548	C	N3-C2-O2	-5.71	117.90	121.90
85	5	1775	G	C5-C6-N1	5.71	114.36	111.50
85	5	1847	A	N9-C4-C5	5.71	108.09	105.80
85	5	2378	C	OP1-P-O3'	5.71	117.77	105.20
85	5	2663	G	O5'-P-OP2	5.71	117.56	110.70
85	5	2933	A	OP1-P-OP2	5.71	128.17	119.60
37	7	111	U	C6-N1-C2	-5.71	117.57	121.00
38	8	12	A	N1-C2-N3	5.71	132.16	129.30
38	8	81	U	O5'-P-OP2	-5.71	100.56	105.70
66	o0	97	ASP	CB-CG-OD2	-5.71	113.16	118.30
1	2	280	U	N1-C2-N3	-5.71	111.47	114.90
1	2	801	C	N3-C2-O2	5.71	125.90	121.90
36	1	280	U	N3-C2-O2	-5.71	118.20	122.20
36	1	3390	G	C5-C6-O6	-5.71	125.17	128.60
80	6	171	A	C4-C5-N7	-5.71	107.84	110.70
80	6	1439	C	N3-C2-O2	5.71	125.90	121.90
85	5	741	U	O5'-P-OP1	-5.71	100.56	105.70
85	5	910	G	C5-C6-O6	-5.71	125.17	128.60
85	5	1914	G	C4-C5-C6	5.71	122.23	118.80
85	5	2176	U	C4-C5-C6	5.71	123.13	119.70
85	5	3111	U	N1-C2-O2	-5.71	118.80	122.80
37	7	105	C	C4-C5-C6	5.71	120.26	117.40
1	2	612	U	C4-C5-C6	-5.71	116.27	119.70
36	1	162	G	N1-C2-N3	-5.71	120.47	123.90
36	1	659	G	O4'-C1'-N9	5.71	112.77	108.20
36	1	1214	U	C5-C4-O4	-5.71	122.47	125.90
36	1	1319	G	C5-C6-N1	5.71	114.36	111.50
36	1	1583	A	C8-N9-C4	-5.71	103.52	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2330	C	C4-C5-C6	-5.71	114.55	117.40
36	1	2595	A	O5'-P-OP2	5.71	117.56	110.70
36	1	2874	G	C5-C6-O6	5.71	132.03	128.60
36	1	2894	C	O5'-P-OP1	5.71	117.55	110.70
36	1	3071	U	N1-C2-O2	-5.71	118.80	122.80
36	1	3130	A	C4-N9-C1'	5.71	136.58	126.30
36	1	3206	C	C5-C6-N1	5.71	123.86	121.00
37	3	92	A	C5-N7-C8	5.71	106.76	103.90
38	4	100	U	C5-C4-O4	-5.71	122.47	125.90
80	6	797	G	C8-N9-C4	5.71	108.69	106.40
80	6	944	A	C8-N9-C4	-5.71	103.52	105.80
80	6	1065	A	N7-C8-N9	5.71	116.66	113.80
80	6	1076	A	N1-C6-N6	-5.71	115.17	118.60
80	6	1338	C	C6-N1-C2	5.71	122.58	120.30
80	6	1483	A	N1-C2-N3	5.71	132.16	129.30
85	5	266	A	C5-C6-N1	5.71	120.56	117.70
85	5	1845	G	C5-C6-N1	5.71	114.36	111.50
85	5	2985	C	O5'-P-OP1	-5.71	100.56	105.70
36	1	105	C	N3-C4-C5	5.71	124.18	121.90
36	1	327	A	C4-C5-C6	-5.71	114.14	117.00
36	1	699	A	N1-C6-N6	-5.71	115.17	118.60
36	1	1307	G	C2-N3-C4	-5.71	109.05	111.90
36	1	2336	U	N1-C2-O2	5.71	126.80	122.80
36	1	2909	U	C4-C5-C6	-5.71	116.27	119.70
36	1	2995	A	C5-N7-C8	5.71	106.75	103.90
38	4	58	G	C4-C5-C6	5.71	122.23	118.80
80	6	100	A	C4-C5-C6	5.71	119.86	117.00
85	5	1408	G	N1-C2-N2	5.71	121.34	116.20
85	5	1618	G	OP2-P-O3'	5.71	117.76	105.20
85	5	1658	G	N1-C6-O6	-5.71	116.47	119.90
85	5	1682	U	C2-N1-C1'	5.71	124.55	117.70
85	5	1794	G	N9-C4-C5	5.71	107.68	105.40
85	5	2778	G	N9-C4-C5	-5.71	103.12	105.40
85	5	2832	C	C5-C6-N1	-5.71	118.14	121.00
85	5	2994	A	N1-C2-N3	5.71	132.16	129.30
85	5	3133	C	N1-C2-N3	5.71	123.20	119.20
85	5	3136	G	N7-C8-N9	5.71	115.95	113.10
1	2	1710	G	N1-C6-O6	5.71	123.33	119.90
36	1	324	A	N1-C6-N6	-5.71	115.17	118.60
36	1	896	A	C6-N1-C2	-5.71	115.17	118.60
36	1	937	G	N3-C4-C5	-5.71	125.75	128.60
36	1	1147	G	C8-N9-C1'	-5.71	119.58	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1329	U	N3-C4-O4	5.71	123.40	119.40
36	1	1878	G	OP1-P-OP2	5.71	128.16	119.60
36	1	2534	G	OP1-P-OP2	-5.71	111.04	119.60
36	1	2957	G	N7-C8-N9	-5.71	110.25	113.10
38	4	24	G	C5-C6-N1	5.71	114.35	111.50
61	N5	106	ASP	CB-CG-OD2	5.71	123.44	118.30
80	6	609	U	O5'-P-OP2	-5.71	100.56	105.70
10	s8	194	ARG	NE-CZ-NH1	5.71	123.15	120.30
85	5	68	C	C6-N1-C2	-5.71	118.02	120.30
85	5	677	A	C5-C6-N6	5.71	128.27	123.70
85	5	844	G	OP2-P-O3'	5.71	117.76	105.20
85	5	1060	U	C5-C6-N1	-5.71	119.85	122.70
85	5	1671	C	C5-C6-N1	5.71	123.85	121.00
85	5	2358	A	C6-C5-N7	-5.71	128.30	132.30
85	5	2385	G	C8-N9-C4	5.71	108.68	106.40
85	5	3147	G	N1-C2-N3	5.71	127.33	123.90
37	7	39	C	C4-C5-C6	5.71	120.25	117.40
47	m0	178	ARG	NE-CZ-NH2	-5.71	117.45	120.30
1	2	581	U	N1-C2-N3	5.71	118.32	114.90
1	2	814	U	C5-C6-N1	5.71	125.55	122.70
1	2	1089	U	N3-C4-C5	-5.71	111.18	114.60
1	2	1271	G	C6-N1-C2	-5.71	121.68	125.10
1	2	1710	G	C4-C5-N7	5.71	113.08	110.80
36	1	536	U	N3-C4-O4	5.71	123.39	119.40
36	1	656	A	N1-C6-N6	5.71	122.02	118.60
36	1	796	U	C4-C5-C6	5.71	123.12	119.70
36	1	891	G	N7-C8-N9	-5.71	110.25	113.10
36	1	1148	G	C5-N7-C8	-5.71	101.45	104.30
36	1	1191	U	C2-N1-C1'	-5.71	110.85	117.70
36	1	3319	U	OP1-P-OP2	5.71	128.16	119.60
80	6	11	A	N1-C6-N6	-5.71	115.18	118.60
80	6	1354	G	C4-N9-C1'	5.71	133.92	126.50
80	6	1547	A	N7-C8-N9	5.71	116.65	113.80
85	5	111	C	N1-C2-N3	-5.71	115.20	119.20
85	5	527	A	O5'-P-OP2	5.71	117.55	110.70
85	5	2863	G	N3-C2-N2	5.71	123.89	119.90
85	5	3238	G	N7-C8-N9	5.71	115.95	113.10
38	8	3	A	N3-C4-C5	-5.71	122.81	126.80
38	8	151	C	C4-C5-C6	5.71	120.25	117.40
1	2	1281	U	N3-C2-O2	-5.71	118.21	122.20
36	1	370	U	C4-C5-C6	5.71	123.12	119.70
36	1	916	G	P-O3'-C3'	5.71	126.55	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1174	G	N3-C4-N9	5.71	129.42	126.00
36	1	3361	G	N1-C2-N3	5.71	127.32	123.90
80	6	290	G	N9-C4-C5	5.71	107.68	105.40
80	6	1134	C	O5'-P-OP1	5.71	117.55	110.70
85	5	99	A	N7-C8-N9	-5.71	110.95	113.80
85	5	374	A	O5'-P-OP1	5.71	117.55	110.70
85	5	637	C	C4-C5-C6	-5.71	114.55	117.40
85	5	647	A	N1-C6-N6	-5.71	115.18	118.60
85	5	1129	A	C5-C6-N6	-5.71	119.14	123.70
85	5	1457	U	N1-C2-O2	-5.71	118.81	122.80
85	5	2357	A	N9-C4-C5	-5.71	103.52	105.80
85	5	2444	C	N3-C4-C5	5.71	124.18	121.90
85	5	2802	A	N1-C2-N3	-5.71	126.45	129.30
37	7	19	C	C2-N3-C4	-5.71	117.05	119.90
1	2	594	A	C6-N1-C2	-5.70	115.18	118.60
1	2	893	C	N1-C2-O2	5.70	122.32	118.90
1	2	1063	U	C5-C4-O4	5.70	129.32	125.90
36	1	277	G	N9-C4-C5	5.70	107.68	105.40
36	1	339	C	C2-N1-C1'	-5.70	112.53	118.80
36	1	828	A	N3-C4-C5	5.70	130.79	126.80
36	1	929	A	N7-C8-N9	5.70	116.65	113.80
36	1	1201	C	N3-C4-C5	5.70	124.18	121.90
36	1	1745	C	C4-C5-C6	5.70	120.25	117.40
36	1	1765	U	N1-C2-N3	-5.70	111.48	114.90
36	1	2099	A	O4'-C1'-N9	5.70	112.76	108.20
36	1	2243	A	N3-C4-C5	-5.70	122.81	126.80
36	1	2311	G	N3-C4-C5	5.70	131.45	128.60
36	1	2332	A	OP1-P-O3'	5.70	117.75	105.20
36	1	2771	U	C4-C5-C6	-5.70	116.28	119.70
36	1	3276	G	N3-C2-N2	5.70	123.89	119.90
39	L2	64	ARG	NE-CZ-NH1	5.70	123.15	120.30
80	6	398	G	N3-C4-C5	-5.70	125.75	128.60
80	6	1595	U	C5-C6-N1	-5.70	119.85	122.70
85	5	218	G	N3-C2-N2	5.70	123.89	119.90
85	5	636	C	P-O3'-C3'	5.70	126.55	119.70
85	5	726	G	OP1-P-OP2	5.70	128.16	119.60
85	5	1500	G	O5'-P-OP1	5.70	117.55	110.70
85	5	2918	G	OP1-P-O3'	5.70	117.75	105.20
85	5	2954	U	N1-C2-N3	5.70	118.32	114.90
37	7	96	U	N3-C2-O2	5.70	126.19	122.20
22	D0	68	ARG	NE-CZ-NH1	-5.70	117.45	120.30
36	1	143	G	C8-N9-C4	-5.70	104.12	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	386	A	C5-N7-C8	-5.70	101.05	103.90
36	1	1349	G	N7-C8-N9	-5.70	110.25	113.10
36	1	1394	A	O5'-P-OP1	5.70	117.54	110.70
36	1	2528	G	C2-N3-C4	-5.70	109.05	111.90
36	1	3224	G	C2-N3-C4	-5.70	109.05	111.90
80	6	999	U	OP1-P-OP2	-5.70	111.05	119.60
80	6	1581	C	O5'-P-OP2	-5.70	100.57	105.70
85	5	374	A	N3-C4-C5	-5.70	122.81	126.80
85	5	1781	C	N1-C2-N3	-5.70	115.21	119.20
85	5	2578	U	N3-C4-O4	-5.70	115.41	119.40
85	5	3049	A	C2-N3-C4	-5.70	107.75	110.60
38	8	31	G	N1-C2-N2	5.70	121.33	116.20
1	2	508	U	C2-N3-C4	5.70	130.42	127.00
1	2	1455	C	N1-C2-O2	-5.70	115.48	118.90
1	2	1603	C	C6-N1-C2	-5.70	118.02	120.30
36	1	194	U	N3-C2-O2	5.70	126.19	122.20
36	1	389	A	C6-N1-C2	-5.70	115.18	118.60
36	1	532	A	N7-C8-N9	-5.70	110.95	113.80
36	1	1212	A	C5-C6-N6	-5.70	119.14	123.70
36	1	1556	C	C4-C5-C6	5.70	120.25	117.40
36	1	1633	C	N3-C4-N4	5.70	121.99	118.00
36	1	1776	G	C5-N7-C8	-5.70	101.45	104.30
36	1	1808	G	N3-C4-C5	-5.70	125.75	128.60
36	1	2662	G	C8-N9-C4	5.70	108.68	106.40
36	1	2936	A	C5-C6-N1	5.70	120.55	117.70
38	4	151	C	C6-N1-C2	-5.70	118.02	120.30
54	M8	32	LEU	CA-CB-CG	5.70	128.41	115.30
80	6	603	U	C5-C4-O4	-5.70	122.48	125.90
80	6	1322	A	N1-C2-N3	5.70	132.15	129.30
80	6	1626	U	N1-C2-O2	-5.70	118.81	122.80
80	6	1703	C	N1-C2-O2	5.70	122.32	118.90
85	5	318	A	C5-C6-N1	5.70	120.55	117.70
85	5	773	G	C5-C6-O6	-5.70	125.18	128.60
85	5	1103	A	O5'-P-OP2	5.70	117.54	110.70
85	5	1299	U	C6-N1-C2	-5.70	117.58	121.00
85	5	1455	U	C2-N3-C4	-5.70	123.58	127.00
85	5	1838	G	OP1-P-OP2	-5.70	111.05	119.60
85	5	2351	U	O4'-C1'-N1	5.70	112.76	108.20
85	5	2697	A	O5'-P-OP1	-5.70	100.57	105.70
85	5	2698	G	C6-N1-C2	-5.70	121.68	125.10
85	5	2715	A	OP2-P-O3'	5.70	117.74	105.20
85	5	2770	G	N1-C6-O6	5.70	123.32	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
40	13	17	LEU	CB-CG-CD1	-5.70	101.31	111.00
1	2	1003	A	N9-C4-C5	5.70	108.08	105.80
1	2	1157	C	C5-C6-N1	-5.70	118.15	121.00
1	2	1528	A	C6-N1-C2	5.70	122.02	118.60
36	1	272	G	C4-C5-N7	-5.70	108.52	110.80
36	1	291	C	O5'-P-OP2	-5.70	100.57	105.70
36	1	697	A	C6-N1-C2	5.70	122.02	118.60
36	1	1307	G	OP1-P-OP2	5.70	128.15	119.60
36	1	2399	A	N1-C2-N3	-5.70	126.45	129.30
80	6	320	U	OP1-P-OP2	5.70	128.15	119.60
80	6	346	G	C5-C6-O6	-5.70	125.18	128.60
80	6	1737	G	O5'-P-OP2	-5.70	100.57	105.70
85	5	699	A	C6-C5-N7	-5.70	128.31	132.30
85	5	851	C	N3-C4-N4	5.70	121.99	118.00
85	5	1335	C	C2-N1-C1'	-5.70	112.53	118.80
85	5	1504	A	OP2-P-O3'	5.70	117.74	105.20
85	5	2375	G	N1-C2-N3	5.70	127.32	123.90
85	5	3131	U	N3-C4-C5	5.70	118.02	114.60
85	5	3140	G	N7-C8-N9	5.70	115.95	113.10
36	1	631	U	N3-C2-O2	5.70	126.19	122.20
38	4	93	U	C6-N1-C2	-5.70	117.58	121.00
80	6	831	U	C5-C4-O4	5.70	129.32	125.90
80	6	1041	G	C4-C5-C6	5.70	122.22	118.80
80	6	1046	G	N3-C2-N2	5.70	123.89	119.90
80	6	1092	A	C4-C5-C6	-5.70	114.15	117.00
85	5	1059	G	C4-C5-N7	-5.70	108.52	110.80
85	5	1357	G	C5-C6-N1	5.70	114.35	111.50
85	5	1434	G	C5'-C4'-O4'	5.70	115.94	109.10
85	5	2232	A	C4-C5-N7	-5.70	107.85	110.70
85	5	2613	U	C4-C5-C6	5.70	123.12	119.70
85	5	2687	G	N3-C2-N2	5.70	123.89	119.90
85	5	2942	C	C5-C4-N4	-5.70	116.21	120.20
1	2	585	A	C8-N9-C4	5.70	108.08	105.80
1	2	1641	G	C6-N1-C2	-5.70	121.68	125.10
36	1	242	C	C6-N1-C2	-5.70	118.02	120.30
36	1	431	U	C6-N1-C2	5.70	124.42	121.00
36	1	792	G	O5'-P-OP2	-5.70	100.57	105.70
36	1	997	A	N9-C4-C5	5.70	108.08	105.80
36	1	1868	G	N1-C6-O6	-5.70	116.48	119.90
36	1	2276	G	C4-C5-C6	-5.70	115.38	118.80
36	1	3105	U	N1-C2-O2	5.70	126.79	122.80
80	6	105	A	C8-N9-C4	5.70	108.08	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	941	A	C5-N7-C8	5.70	106.75	103.90
80	6	1376	C	N1-C2-O2	-5.70	115.48	118.90
80	6	1617	U	N3-C4-C5	-5.70	111.18	114.60
80	6	1651	A	C6-C5-N7	-5.70	128.31	132.30
85	5	787	G	N3-C4-N9	-5.70	122.58	126.00
85	5	1756	C	N1-C2-O2	-5.70	115.48	118.90
85	5	1756	C	C5-C6-N1	-5.70	118.15	121.00
85	5	1770	G	C6-N1-C2	-5.70	121.68	125.10
85	5	1935	G	N1-C2-N3	-5.70	120.48	123.90
85	5	2309	A	C4-C5-C6	5.70	119.85	117.00
85	5	2765	C	N1-C2-O2	-5.70	115.48	118.90
85	5	2920	U	C5-C6-N1	5.70	125.55	122.70
36	1	567	G	N7-C8-N9	5.69	115.95	113.10
36	1	1124	U	C2-N3-C4	5.69	130.42	127.00
36	1	1139	G	N1-C6-O6	5.69	123.32	119.90
36	1	2311	G	O4'-C1'-N9	-5.69	103.64	108.20
36	1	2698	G	C5-N7-C8	5.69	107.15	104.30
36	1	3242	G	O5'-P-OP1	5.69	117.53	110.70
80	6	823	G	N3-C2-N2	5.69	123.89	119.90
80	6	1108	G	C6-N1-C2	-5.69	121.68	125.10
80	6	1108	G	OP1-P-OP2	-5.69	111.06	119.60
85	5	3	U	N3-C4-C5	5.69	118.02	114.60
85	5	302	U	O5'-P-OP1	5.69	117.53	110.70
85	5	676	G	N1-C6-O6	-5.69	116.48	119.90
85	5	692	A	C6-C5-N7	-5.69	128.31	132.30
85	5	854	G	C4-C5-C6	5.69	122.22	118.80
85	5	1939	G	C4-C5-N7	-5.69	108.52	110.80
85	5	2303	A	C4-C5-C6	5.69	119.85	117.00
85	5	2335	G	OP2-P-O3'	5.69	117.73	105.20
85	5	2355	G	N7-C8-N9	5.69	115.95	113.10
42	15	213	ASP	CB-CG-OD1	5.69	123.42	118.30
1	2	620	A	C2-N3-C4	-5.69	107.75	110.60
1	2	1494	U	C6-N1-C2	-5.69	117.58	121.00
36	1	21	G	C8-N9-C1'	-5.69	119.60	127.00
36	1	42	C	C4-C5-C6	5.69	120.25	117.40
36	1	606	C	OP2-P-O3'	-5.69	92.68	105.20
36	1	832	G	C5-C6-N1	5.69	114.35	111.50
36	1	1370	G	N1-C2-N2	-5.69	111.08	116.20
36	1	1536	G	C5-N7-C8	-5.69	101.45	104.30
36	1	1840	U	C2-N3-C4	-5.69	123.58	127.00
36	1	2395	G	N1-C2-N2	5.69	121.32	116.20
36	1	2415	C	OP1-P-O3'	5.69	117.72	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	142	G	C5-C6-N1	5.69	114.35	111.50
80	6	235	G	N3-C4-N9	-5.69	122.58	126.00
80	6	256	A	C4-C5-N7	5.69	113.55	110.70
80	6	297	U	OP1-P-OP2	-5.69	111.06	119.60
85	5	139	G	N1-C6-O6	5.69	123.32	119.90
85	5	190	U	C5-C6-N1	5.69	125.55	122.70
85	5	639	G	C5-C6-N1	-5.69	108.65	111.50
85	5	1093	A	N1-C2-N3	5.69	132.15	129.30
85	5	1474	A	C4-C5-N7	5.69	113.55	110.70
85	5	2114	C	C5-C4-N4	-5.69	116.22	120.20
85	5	2339	C	C6-N1-C1'	-5.69	113.97	120.80
85	5	2351	U	C5-C4-O4	5.69	129.31	125.90
85	5	2607	G	O4'-C1'-N9	-5.69	103.65	108.20
1	2	362	G	OP1-P-OP2	-5.69	111.06	119.60
1	2	1041	U	N1-C2-O2	5.69	126.78	122.80
36	1	423	A	OP2-P-O3'	5.69	117.72	105.20
36	1	1767	C	C2-N3-C4	-5.69	117.06	119.90
36	1	2095	G	N3-C4-N9	5.69	129.41	126.00
36	1	2132	C	O4'-C1'-N1	-5.69	103.65	108.20
36	1	2432	A	OP1-P-OP2	5.69	128.13	119.60
37	3	45	A	N1-C6-N6	-5.69	115.19	118.60
80	6	1697	G	N3-C4-N9	5.69	129.41	126.00
80	6	1701	A	N9-C4-C5	-5.69	103.52	105.80
85	5	949	C	C5-C4-N4	-5.69	116.22	120.20
85	5	1044	U	N1-C2-O2	-5.69	118.82	122.80
85	5	1119	C	N3-C2-O2	5.69	125.88	121.90
85	5	1133	A	N9-C1'-C2'	-5.69	105.74	112.00
85	5	1452	A	C4-C5-C6	5.69	119.85	117.00
85	5	1836	C	O5'-P-OP2	5.69	117.53	110.70
85	5	2582	C	C6-N1-C2	5.69	122.58	120.30
1	2	742	U	OP1-P-OP2	-5.69	111.07	119.60
1	2	890	A	C2-N3-C4	5.69	113.44	110.60
1	2	972	U	N3-C4-O4	-5.69	115.42	119.40
6	S4	108	ARG	NE-CZ-NH2	5.69	123.14	120.30
38	4	85	G	O5'-P-OP2	5.69	117.53	110.70
38	4	122	U	N1-C2-N3	5.69	118.31	114.90
80	6	243	G	C5-N7-C8	-5.69	101.46	104.30
80	6	778	G	C8-N9-C4	5.69	108.68	106.40
80	6	1706	C	C6-N1-C2	5.69	122.58	120.30
85	5	233	C	N3-C4-C5	5.69	124.18	121.90
85	5	351	A	OP1-P-O3'	5.69	117.72	105.20
85	5	1162	U	C6-N1-C2	-5.69	117.59	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1845	G	N3-C4-N9	5.69	129.41	126.00
85	5	2880	U	C5-C6-N1	5.69	125.55	122.70
37	7	5	G	C5-N7-C8	5.69	107.14	104.30
40	l3	282	ILE	CG1-CB-CG2	-5.69	98.88	111.40
72	o6	76	ARG	NE-CZ-NH2	-5.69	117.46	120.30
1	2	279	G	C5-C6-N1	5.69	114.34	111.50
1	2	1174	U	C2-N3-C4	-5.69	123.59	127.00
36	1	761	A	C8-N9-C4	-5.69	103.53	105.80
36	1	1093	A	C8-N9-C4	5.69	108.08	105.80
36	1	1300	G	C5-C6-O6	-5.69	125.19	128.60
36	1	1308	A	O5'-P-OP2	5.69	117.52	110.70
36	1	1397	C	O4'-C1'-N1	-5.69	103.65	108.20
36	1	1899	G	C5-C6-O6	5.69	132.01	128.60
36	1	2255	A	C5-C6-N1	5.69	120.54	117.70
36	1	2275	A	C2-N3-C4	-5.69	107.76	110.60
36	1	2302	G	OP1-P-O3'	5.69	117.71	105.20
36	1	2366	C	C4-C5-C6	5.69	120.24	117.40
36	1	2627	C	C4-C5-C6	5.69	120.24	117.40
36	1	2849	C	C5-C4-N4	5.69	124.18	120.20
36	1	2924	U	C2-N1-C1'	-5.69	110.88	117.70
36	1	2968	G	N3-C2-N2	-5.69	115.92	119.90
36	1	3061	G	N1-C2-N2	5.69	121.32	116.20
36	1	3262	U	C4-C5-C6	5.69	123.11	119.70
37	3	82	G	C5-C6-N1	-5.69	108.66	111.50
52	M6	151	ASP	CB-CG-OD2	5.69	123.42	118.30
80	6	1033	C	N1-C2-O2	-5.69	115.49	118.90
80	6	1574	G	C5-C6-N1	5.69	114.34	111.50
85	5	173	G	N1-C6-O6	-5.69	116.49	119.90
85	5	311	C	C5-C6-N1	-5.69	118.16	121.00
85	5	664	U	OP1-P-OP2	-5.69	111.07	119.60
85	5	881	C	C2-N1-C1'	5.69	125.06	118.80
85	5	2340	U	C5-C6-N1	5.69	125.54	122.70
85	5	2380	U	C5-C6-N1	-5.69	119.86	122.70
85	5	2525	G	C5-C6-N1	5.69	114.34	111.50
85	5	2598	G	C4-C5-C6	5.69	122.21	118.80
85	5	2778	G	N1-C6-O6	5.69	123.31	119.90
85	5	2968	G	OP1-P-OP2	-5.69	111.07	119.60
85	5	3108	G	N7-C8-N9	5.69	115.94	113.10
64	n8	9	ARG	NE-CZ-NH1	-5.69	117.46	120.30
1	2	966	A	C6-N1-C2	-5.69	115.19	118.60
1	2	1206	A	N9-C4-C5	-5.69	103.53	105.80
36	1	94	G	OP1-P-OP2	5.69	128.13	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	830	A	N7-C8-N9	5.69	116.64	113.80
36	1	941	G	C5-N7-C8	-5.69	101.46	104.30
36	1	2501	U	C6-N1-C2	-5.69	117.59	121.00
36	1	2660	G	C4-C5-N7	5.69	113.07	110.80
36	1	2787	G	C5-N7-C8	-5.69	101.46	104.30
37	3	115	G	N9-C4-C5	-5.69	103.13	105.40
80	6	311	U	OP2-P-O3'	-5.69	92.69	105.20
85	5	145	G	N3-C4-N9	-5.69	122.59	126.00
85	5	918	C	C5-C4-N4	-5.69	116.22	120.20
85	5	929	A	N1-C2-N3	5.69	132.14	129.30
85	5	1443	G	O5'-P-OP2	5.69	117.52	110.70
85	5	3076	C	N1-C2-N3	5.69	123.18	119.20
1	2	355	G	C5-C6-N1	5.68	114.34	111.50
1	2	1153	G	N3-C2-N2	-5.68	115.92	119.90
1	2	1459	C	N3-C2-O2	5.68	125.88	121.90
1	2	1478	C	N3-C2-O2	-5.68	117.92	121.90
36	1	896	A	C8-N9-C4	-5.68	103.53	105.80
36	1	1161	G	C5-N7-C8	-5.68	101.46	104.30
36	1	1507	G	N1-C6-O6	5.68	123.31	119.90
36	1	1913	A	N1-C6-N6	5.68	122.01	118.60
36	1	1928	G	C4-C5-C6	-5.68	115.39	118.80
36	1	2211	U	C6-N1-C2	-5.68	117.59	121.00
36	1	2407	C	C6-N1-C2	-5.68	118.03	120.30
36	1	2833	A	O5'-P-OP2	-5.68	100.58	105.70
36	1	3080	G	N3-C4-C5	-5.68	125.76	128.60
36	1	3167	A	N1-C2-N3	-5.68	126.46	129.30
80	6	234	G	N3-C4-N9	5.68	129.41	126.00
80	6	313	U	O5'-P-OP1	-5.68	100.58	105.70
80	6	477	A	N9-C4-C5	-5.68	103.53	105.80
80	6	560	U	C5-C6-N1	5.68	125.54	122.70
80	6	661	A	C2-N3-C4	5.68	113.44	110.60
80	6	992	A	C2-N3-C4	5.68	113.44	110.60
85	5	187	A	O4'-C1'-N9	5.68	112.75	108.20
85	5	606	C	C2-N3-C4	-5.68	117.06	119.90
85	5	913	A	N7-C8-N9	5.68	116.64	113.80
85	5	969	C	C5-C4-N4	5.68	124.18	120.20
85	5	2868	U	N3-C4-O4	5.68	123.38	119.40
85	5	3197	G	N9-C4-C5	5.68	107.67	105.40
1	2	828	G	C5-N7-C8	5.68	107.14	104.30
36	1	135	C	N3-C4-N4	5.68	121.98	118.00
36	1	330	G	N1-C6-O6	5.68	123.31	119.90
36	1	513	G	N3-C4-C5	-5.68	125.76	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	710	A	N7-C8-N9	5.68	116.64	113.80
36	1	813	G	OP2-P-O3'	5.68	117.70	105.20
36	1	1507	G	C6-C5-N7	-5.68	126.99	130.40
36	1	1798	A	C4-C5-N7	5.68	113.54	110.70
36	1	1812	G	C5-C6-O6	5.68	132.01	128.60
36	1	2590	A	OP2-P-O3'	5.68	117.70	105.20
36	1	2992	U	O4'-C1'-N1	-5.68	103.65	108.20
36	1	3045	G	C6-C5-N7	-5.68	126.99	130.40
36	1	3132	C	N3-C2-O2	-5.68	117.92	121.90
80	6	96	G	N3-C4-N9	-5.68	122.59	126.00
80	6	457	G	C5-C6-O6	5.68	132.01	128.60
80	6	524	U	C5-C6-N1	-5.68	119.86	122.70
80	6	1504	G	C8-N9-C4	-5.68	104.13	106.40
85	5	819	U	C4-C5-C6	5.68	123.11	119.70
85	5	2361	A	N3-C4-C5	-5.68	122.82	126.80
85	5	2583	C	C5-C6-N1	5.68	123.84	121.00
85	5	2904	U	C2-N1-C1'	5.68	124.52	117.70
85	5	2962	U	C6-N1-C2	-5.68	117.59	121.00
85	5	3175	U	C4-C5-C6	5.68	123.11	119.70
1	2	126	A	C5-C6-N6	5.68	128.25	123.70
1	2	1282	G	N3-C4-C5	-5.68	125.76	128.60
36	1	433	A	N1-C2-N3	5.68	132.14	129.30
36	1	1498	A	N1-C2-N3	5.68	132.14	129.30
36	1	2255	A	N1-C6-N6	-5.68	115.19	118.60
36	1	2649	A	N1-C6-N6	-5.68	115.19	118.60
36	1	3066	U	OP1-P-OP2	-5.68	111.08	119.60
39	L2	148	VAL	CG1-CB-CG2	-5.68	101.81	110.90
85	5	245	U	C2-N3-C4	-5.68	123.59	127.00
85	5	583	G	N3-C4-C5	5.68	131.44	128.60
85	5	1357	G	C5-C6-O6	5.68	132.01	128.60
85	5	2407	C	P-O3'-C3'	-5.68	112.88	119.70
85	5	2521	U	N3-C4-O4	5.68	123.38	119.40
85	5	3316	A	OP1-P-OP2	-5.68	111.08	119.60
38	8	125	U	C2-N3-C4	5.68	130.41	127.00
36	1	622	A	C6-C5-N7	-5.68	128.32	132.30
36	1	897	U	N3-C4-O4	-5.68	115.42	119.40
36	1	1867	A	C8-N9-C4	5.68	108.07	105.80
36	1	2894	C	C4-C5-C6	5.68	120.24	117.40
36	1	3107	U	N1-C2-N3	5.68	118.31	114.90
38	4	20	U	N1-C2-O2	-5.68	118.82	122.80
80	6	545	A	N9-C4-C5	5.68	108.07	105.80
80	6	975	C	O5'-P-OP2	-5.68	100.59	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	264	G	C4-C5-N7	-5.68	108.53	110.80
85	5	394	G	C2-N3-C4	-5.68	109.06	111.90
85	5	633	C	N3-C4-N4	5.68	121.97	118.00
85	5	722	G	N3-C2-N2	-5.68	115.92	119.90
85	5	784	A	N3-C4-N9	-5.68	122.86	127.40
85	5	790	U	C2-N3-C4	5.68	130.41	127.00
85	5	826	G	N7-C8-N9	5.68	115.94	113.10
85	5	947	G	N1-C2-N2	-5.68	111.09	116.20
85	5	1476	G	C8-N9-C1'	-5.68	119.62	127.00
85	5	1639	C	C2-N3-C4	5.68	122.74	119.90
37	7	23	A	C2-N3-C4	5.68	113.44	110.60
1	2	324	U	N3-C4-C5	-5.68	111.19	114.60
36	1	400	G	C5-C6-N1	5.68	114.34	111.50
36	1	1033	U	C5-C4-O4	-5.68	122.49	125.90
36	1	1193	A	N7-C8-N9	5.68	116.64	113.80
36	1	1946	A	C6-N1-C2	-5.68	115.19	118.60
36	1	3256	G	OP1-P-OP2	5.68	128.12	119.60
80	6	12	U	OP1-P-OP2	-5.68	111.08	119.60
80	6	453	U	C4-C5-C6	5.68	123.11	119.70
80	6	456	A	C6-N1-C2	-5.68	115.19	118.60
80	6	1733	C	C2-N1-C1'	5.68	125.05	118.80
85	5	830	A	C6-C5-N7	-5.68	128.32	132.30
85	5	2275	A	O5'-P-OP1	-5.68	100.59	105.70
1	2	525	A	C4-C5-N7	5.68	113.54	110.70
1	2	1125	A	N7-C8-N9	5.68	116.64	113.80
36	1	530	G	N1-C2-N2	5.68	121.31	116.20
36	1	642	U	C6-N1-C2	5.68	124.41	121.00
36	1	763	G	C5-N7-C8	5.68	107.14	104.30
36	1	852	U	C5-C4-O4	5.68	129.31	125.90
36	1	1293	U	OP2-P-O3'	5.68	117.69	105.20
36	1	1379	G	N1-C2-N2	-5.68	111.09	116.20
36	1	2840	C	C5-C6-N1	-5.68	118.16	121.00
36	1	3213	A	C6-C5-N7	-5.68	128.33	132.30
80	6	64	U	C2-N3-C4	-5.68	123.59	127.00
85	5	216	G	OP2-P-O3'	5.68	117.69	105.20
85	5	666	A	O5'-P-OP2	-5.68	100.59	105.70
85	5	728	G	C6-C5-N7	-5.68	126.99	130.40
85	5	1096	U	C4-C5-C6	5.68	123.11	119.70
85	5	1412	G	C5-C6-O6	-5.68	125.19	128.60
85	5	1766	G	N3-C4-C5	-5.68	125.76	128.60
85	5	2635	A	C4-C5-C6	5.68	119.84	117.00
85	5	2818	U	C5'-C4'-O4'	-5.68	102.29	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3070	A	C8-N9-C4	-5.68	103.53	105.80
85	5	3119	U	O5'-P-OP2	-5.68	100.59	105.70
85	5	3288	G	N7-C8-N9	-5.68	110.26	113.10
1	2	42	G	C5-C6-O6	-5.67	125.19	128.60
1	2	1313	G	N1-C6-O6	5.67	123.31	119.90
1	2	1661	A	C4-C5-N7	5.67	113.54	110.70
36	1	780	A	C5-N7-C8	-5.67	101.06	103.90
36	1	975	C	N3-C2-O2	5.67	125.87	121.90
36	1	1204	A	C5-C6-N1	5.67	120.54	117.70
36	1	1543	G	C5-C6-O6	-5.67	125.19	128.60
36	1	2118	C	C4-C5-C6	5.67	120.24	117.40
36	1	2351	U	N3-C4-O4	5.67	123.37	119.40
36	1	2389	C	N1-C2-O2	-5.67	115.50	118.90
36	1	2675	C	C2-N1-C1'	5.67	125.04	118.80
36	1	2877	G	C4-C5-N7	-5.67	108.53	110.80
36	1	3189	G	C5-C6-N1	-5.67	108.66	111.50
80	6	100	A	C6-N1-C2	-5.67	115.19	118.60
80	6	1443	U	C5-C6-N1	-5.67	119.86	122.70
85	5	1074	U	C2-N3-C4	-5.67	123.59	127.00
85	5	1303	A	N3-C4-C5	5.67	130.77	126.80
85	5	1525	G	C5-N7-C8	-5.67	101.46	104.30
85	5	1764	U	P-O3'-C3'	5.67	126.51	119.70
85	5	1769	G	C8-N9-C4	5.67	108.67	106.40
85	5	2363	A	OP2-P-O3'	5.67	117.68	105.20
85	5	2529	A	C4-C5-C6	5.67	119.84	117.00
85	5	2592	G	N3-C4-C5	5.67	131.44	128.60
85	5	3235	C	C5-C4-N4	-5.67	116.23	120.20
37	7	67	G	N9-C4-C5	5.67	107.67	105.40
1	2	1108	A	N9-C4-C5	5.67	108.07	105.80
1	2	1410	A	N1-C2-N3	5.67	132.14	129.30
36	1	373	A	C5-C6-N6	-5.67	119.16	123.70
36	1	1928	G	OP1-P-OP2	5.67	128.11	119.60
36	1	2225	U	C6-N1-C2	-5.67	117.60	121.00
36	1	2356	A	OP1-P-O3'	5.67	117.68	105.20
36	1	3115	C	C2-N3-C4	5.67	122.74	119.90
36	1	3241	G	N7-C8-N9	-5.67	110.26	113.10
37	3	121	U	N3-C4-O4	5.67	123.37	119.40
85	5	1395	G	OP2-P-O3'	5.67	117.68	105.20
1	2	97	C	N3-C4-N4	-5.67	114.03	118.00
1	2	99	C	N3-C4-C5	5.67	124.17	121.90
1	2	169	A	O5'-P-OP2	-5.67	100.60	105.70
1	2	836	G	N9-C4-C5	-5.67	103.13	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1181	G	N7-C8-N9	5.67	115.94	113.10
1	2	1184	G	N1-C6-O6	5.67	123.30	119.90
36	1	47	C	P-O3'-C3'	-5.67	112.89	119.70
36	1	279	U	OP1-P-OP2	5.67	128.11	119.60
36	1	280	U	P-O3'-C3'	-5.67	112.89	119.70
36	1	1138	U	N1-C2-N3	5.67	118.30	114.90
36	1	1322	U	C6-N1-C2	-5.67	117.60	121.00
36	1	1426	C	C5-C4-N4	5.67	124.17	120.20
36	1	1609	C	N3-C2-O2	5.67	125.87	121.90
36	1	1648	A	N1-C2-N3	5.67	132.13	129.30
36	1	1711	C	C2-N3-C4	5.67	122.74	119.90
36	1	1831	U	OP1-P-OP2	-5.67	111.09	119.60
36	1	1858	A	N7-C8-N9	5.67	116.64	113.80
36	1	2383	C	O5'-P-OP2	-5.67	100.59	105.70
36	1	2998	U	N1-C2-N3	5.67	118.30	114.90
37	3	95	A	N7-C8-N9	5.67	116.64	113.80
80	6	1421	A	C5-N7-C8	5.67	106.73	103.90
80	6	1492	A	OP1-P-OP2	-5.67	111.09	119.60
80	6	1761	U	C5-C6-N1	-5.67	119.86	122.70
85	5	222	A	O5'-P-OP1	5.67	117.51	110.70
85	5	312	C	C6-N1-C2	-5.67	118.03	120.30
85	5	530	G	N1-C6-O6	5.67	123.30	119.90
85	5	684	G	C4-C5-N7	-5.67	108.53	110.80
85	5	794	U	N3-C4-C5	-5.67	111.20	114.60
85	5	1281	G	C4-N9-C1'	-5.67	119.13	126.50
85	5	1372	C	N1-C2-N3	5.67	123.17	119.20
85	5	1477	A	C5-C6-N6	-5.67	119.16	123.70
85	5	1526	U	N3-C4-O4	5.67	123.37	119.40
85	5	1813	A	C6-N1-C2	-5.67	115.20	118.60
85	5	2279	A	C8-N9-C4	-5.67	103.53	105.80
85	5	2319	U	OP1-P-OP2	-5.67	111.09	119.60
85	5	2387	A	C5-C6-N6	-5.67	119.16	123.70
85	5	2551	U	OP1-P-OP2	5.67	128.11	119.60
85	5	2920	U	N3-C2-O2	5.67	126.17	122.20
85	5	2933	A	C2-N3-C4	5.67	113.44	110.60
85	5	3372	A	C2-N3-C4	5.67	113.44	110.60
37	7	20	A	OP1-P-OP2	-5.67	111.09	119.60
38	8	99	C	N1-C2-N3	-5.67	115.23	119.20
1	2	29	U	N3-C2-O2	5.67	126.17	122.20
1	2	418	G	N1-C2-N2	-5.67	111.10	116.20
1	2	1494	U	C5-C6-N1	5.67	125.53	122.70
36	1	277	G	N1-C2-N3	-5.67	120.50	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1617	G	N3-C4-C5	5.67	131.44	128.60
36	1	2783	U	C5-C6-N1	5.67	125.53	122.70
37	3	35	C	N1-C2-O2	-5.67	115.50	118.90
80	6	29	U	N1-C2-N3	5.67	118.30	114.90
80	6	379	U	C5-C4-O4	-5.67	122.50	125.90
80	6	407	A	C5-N7-C8	-5.67	101.06	103.90
80	6	409	C	OP2-P-O3'	-5.67	92.73	105.20
85	5	622	A	O4'-C1'-N9	-5.67	103.66	108.20
85	5	733	G	N1-C2-N2	5.67	121.30	116.20
85	5	2208	A	C8-N9-C1'	-5.67	117.50	127.70
85	5	2632	G	N1-C6-O6	5.67	123.30	119.90
85	5	3150	A	N1-C6-N6	5.67	122.00	118.60
38	8	13	A	C8-N9-C4	-5.67	103.53	105.80
53	m7	126	ARG	NE-CZ-NH2	5.67	123.14	120.30
1	2	100	A	C2-N3-C4	5.67	113.44	110.60
1	2	1223	U	N1-C2-O2	-5.67	118.83	122.80
36	1	94	G	O5'-P-OP1	-5.67	100.60	105.70
36	1	523	A	C6-C5-N7	5.67	136.27	132.30
36	1	1526	U	O5'-P-OP2	-5.67	100.60	105.70
36	1	1611	G	N1-C6-O6	5.67	123.30	119.90
36	1	1668	G	C6-C5-N7	-5.67	127.00	130.40
36	1	1870	C	O5'-P-OP2	5.67	117.50	110.70
36	1	2307	G	N3-C4-N9	-5.67	122.60	126.00
36	1	3027	A	C5-C6-N6	5.67	128.24	123.70
36	1	3129	A	C4-C5-C6	5.67	119.83	117.00
36	1	3267	A	C4-C5-C6	5.67	119.83	117.00
36	1	3268	A	C2-N3-C4	-5.67	107.77	110.60
36	1	3276	G	C4-C5-N7	5.67	113.07	110.80
37	3	94	C	C4-C5-C6	5.67	120.23	117.40
38	4	22	U	OP2-P-O3'	-5.67	92.73	105.20
80	6	61	A	N7-C8-N9	-5.67	110.97	113.80
80	6	380	U	C5-C6-N1	-5.67	119.86	122.70
80	6	734	A	C5-C6-N1	5.67	120.53	117.70
80	6	820	U	C5-C4-O4	-5.67	122.50	125.90
80	6	1036	A	O5'-P-OP1	5.67	117.50	110.70
80	6	1575	G	N1-C6-O6	-5.67	116.50	119.90
85	5	101	G	C4-C5-N7	5.67	113.07	110.80
85	5	110	G	C8-N9-C4	5.67	108.67	106.40
85	5	576	C	C4-C5-C6	5.67	120.23	117.40
85	5	727	G	O4'-C1'-N9	-5.67	103.66	108.20
85	5	762	U	C4-C5-C6	5.67	123.10	119.70
85	5	866	A	N1-C2-N3	-5.67	126.47	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	893	C	C2-N3-C4	-5.67	117.07	119.90
85	5	2114	C	OP1-P-OP2	5.67	128.10	119.60
85	5	2622	C	N3-C2-O2	-5.67	117.93	121.90
85	5	2642	A	OP1-P-O3'	5.67	117.67	105.20
85	5	2746	A	O5'-P-OP1	-5.67	100.60	105.70
1	2	45	U	N3-C2-O2	-5.67	118.23	122.20
1	2	158	U	P-O3'-C3'	5.67	126.50	119.70
1	2	1427	A	C8-N9-C4	5.67	108.07	105.80
1	2	1716	C	C2-N3-C4	5.67	122.73	119.90
36	1	49	A	N1-C2-N3	5.67	132.13	129.30
36	1	295	A	C5-N7-C8	-5.67	101.07	103.90
36	1	522	A	C5-C6-N1	-5.67	114.87	117.70
36	1	580	C	N3-C2-O2	-5.67	117.93	121.90
36	1	1472	U	N3-C4-O4	-5.67	115.43	119.40
36	1	2288	G	OP2-P-O3'	5.67	117.67	105.20
36	1	2292	U	N3-C2-O2	-5.67	118.23	122.20
51	M5	93	LYS	CD-CE-NZ	5.67	124.73	111.70
59	N3	22	ILE	CG1-CB-CG2	-5.67	98.93	111.40
80	6	163	G	OP2-P-O3'	5.67	117.67	105.20
85	5	189	G	O5'-P-OP1	-5.67	100.60	105.70
85	5	196	G	O5'-P-OP2	5.67	117.50	110.70
85	5	815	G	C8-N9-C1'	-5.67	119.63	127.00
85	5	934	G	C4-N9-C1'	5.67	133.87	126.50
85	5	941	G	N3-C4-N9	5.67	129.40	126.00
85	5	1611	G	N1-C6-O6	5.67	123.30	119.90
38	8	85	G	C6-N1-C2	5.67	128.50	125.10
1	2	221	A	C8-N9-C4	-5.67	103.53	105.80
1	2	1634	A	C8-N9-C4	5.67	108.07	105.80
36	1	595	G	N1-C6-O6	5.67	123.30	119.90
36	1	2115	G	OP1-P-O3'	5.67	117.66	105.20
36	1	2218	G	C8-N9-C4	5.67	108.67	106.40
36	1	2556	C	O5'-P-OP2	-5.67	100.60	105.70
80	6	421	A	OP1-P-OP2	-5.67	111.10	119.60
85	5	70	A	N1-C6-N6	5.67	122.00	118.60
85	5	74	G	N9-C4-C5	5.67	107.67	105.40
85	5	128	G	C6-C5-N7	5.67	133.80	130.40
85	5	890	C	C2-N1-C1'	5.67	125.03	118.80
85	5	965	A	C6-C5-N7	-5.67	128.33	132.30
85	5	1719	G	N3-C2-N2	-5.67	115.94	119.90
85	5	2183	A	C8-N9-C4	5.67	108.07	105.80
85	5	2974	U	O5'-P-OP2	5.67	117.50	110.70
1	2	410	A	C5-N7-C8	-5.66	101.07	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	11	A	O4'-C1'-N9	-5.66	103.67	108.20
36	1	427	C	C2-N1-C1'	5.66	125.03	118.80
36	1	716	A	N3-C4-C5	5.66	130.76	126.80
36	1	974	G	N1-C2-N2	-5.66	111.10	116.20
36	1	1098	A	C6-C5-N7	-5.66	128.34	132.30
36	1	1293	U	N3-C2-O2	5.66	126.16	122.20
36	1	1578	C	C5-C6-N1	5.66	123.83	121.00
36	1	2588	U	O5'-P-OP1	5.66	117.50	110.70
36	1	2645	G	OP1-P-OP2	-5.66	111.11	119.60
36	1	3078	U	N1-C2-O2	-5.66	118.84	122.80
36	1	3177	G	C5-N7-C8	5.66	107.13	104.30
36	1	3344	A	C6-C5-N7	-5.66	128.34	132.30
37	3	30	G	C4-C5-N7	5.66	113.07	110.80
80	6	188	A	C2-N3-C4	-5.66	107.77	110.60
80	6	569	C	C2-N3-C4	-5.66	117.07	119.90
80	6	591	A	N9-C4-C5	-5.66	103.53	105.80
80	6	872	G	N7-C8-N9	-5.66	110.27	113.10
80	6	1151	A	OP1-P-OP2	5.66	128.10	119.60
85	5	938	C	C2-N3-C4	-5.66	117.07	119.90
85	5	1133	A	N9-C4-C5	-5.66	103.53	105.80
85	5	1650	G	N1-C6-O6	5.66	123.30	119.90
85	5	1686	U	C5-C6-N1	-5.66	119.87	122.70
85	5	1770	G	C8-N9-C4	-5.66	104.13	106.40
85	5	1812	G	C8-N9-C4	-5.66	104.14	106.40
85	5	2243	A	O4'-C1'-N9	-5.66	103.67	108.20
85	5	2384	A	N1-C2-N3	5.66	132.13	129.30
1	2	195	G	C6-C5-N7	5.66	133.80	130.40
36	1	266	A	N7-C8-N9	-5.66	110.97	113.80
36	1	3099	C	C5-C6-N1	5.66	123.83	121.00
80	6	34	G	O5'-P-OP1	5.66	117.50	110.70
80	6	332	U	C2-N3-C4	-5.66	123.60	127.00
80	6	1728	A	C8-N9-C4	5.66	108.06	105.80
85	5	595	G	OP1-P-OP2	5.66	128.09	119.60
85	5	801	A	C2-N3-C4	-5.66	107.77	110.60
85	5	1725	C	C5-C6-N1	-5.66	118.17	121.00
1	2	131	C	O5'-P-OP1	5.66	117.49	110.70
1	2	207	U	N3-C2-O2	-5.66	118.24	122.20
1	2	330	G	N3-C4-C5	-5.66	125.77	128.60
1	2	994	G	C2-N3-C4	5.66	114.73	111.90
1	2	1011	C	N3-C4-C5	-5.66	119.64	121.90
36	1	154	U	N3-C2-O2	5.66	126.16	122.20
36	1	643	U	C5-C4-O4	-5.66	122.50	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	993	G	N1-C6-O6	-5.66	116.50	119.90
36	1	1135	A	N9-C4-C5	5.66	108.06	105.80
36	1	1288	U	C6-N1-C2	5.66	124.40	121.00
36	1	1588	A	N3-C4-N9	5.66	131.93	127.40
36	1	2737	C	C5-C4-N4	-5.66	116.24	120.20
36	1	2910	A	O4'-C1'-N9	-5.66	103.67	108.20
80	6	34	G	N3-C2-N2	-5.66	115.94	119.90
80	6	532	U	N1-C2-N3	5.66	118.30	114.90
80	6	921	U	C4-C5-C6	5.66	123.10	119.70
80	6	965	U	N1-C2-O2	5.66	126.76	122.80
85	5	32	U	C5-C6-N1	-5.66	119.87	122.70
85	5	349	A	OP2-P-O3'	5.66	117.65	105.20
85	5	940	G	C2-N3-C4	5.66	114.73	111.90
85	5	1552	G	C5-N7-C8	-5.66	101.47	104.30
85	5	2124	G	OP2-P-O3'	5.66	117.65	105.20
85	5	2602	G	N3-C4-N9	-5.66	122.60	126.00
85	5	2938	G	N3-C4-C5	-5.66	125.77	128.60
85	5	2955	U	C5-C6-N1	-5.66	119.87	122.70
85	5	3044	G	N3-C2-N2	-5.66	115.94	119.90
85	5	3231	U	OP1-P-OP2	-5.66	111.11	119.60
85	5	3317	U	N3-C2-O2	-5.66	118.24	122.20
38	8	38	U	OP2-P-O3'	5.66	117.65	105.20
1	2	1024	G	C5-C6-N1	-5.66	108.67	111.50
1	2	1029	G	C5-C6-N1	5.66	114.33	111.50
36	1	378	A	C4-C5-N7	-5.66	107.87	110.70
36	1	516	A	C5-N7-C8	-5.66	101.07	103.90
36	1	709	A	N3-C4-N9	5.66	131.93	127.40
36	1	826	G	N3-C4-C5	5.66	131.43	128.60
36	1	1061	A	N1-C2-N3	5.66	132.13	129.30
36	1	1652	G	N9-C4-C5	-5.66	103.14	105.40
36	1	2168	A	N9-C4-C5	5.66	108.06	105.80
36	1	2720	G	N7-C8-N9	5.66	115.93	113.10
37	3	23	A	N9-C4-C5	5.66	108.06	105.80
38	4	65	A	N3-C4-N9	-5.66	122.87	127.40
80	6	46	A	C4-C5-C6	5.66	119.83	117.00
80	6	322	G	C6-N1-C2	5.66	128.50	125.10
80	6	340	U	OP2-P-O3'	5.66	117.65	105.20
80	6	825	U	C2-N1-C1'	-5.66	110.91	117.70
80	6	1158	C	O5'-P-OP2	-5.66	100.61	105.70
80	6	1731	A	C6-N1-C2	-5.66	115.20	118.60
85	5	232	G	N1-C2-N2	-5.66	111.11	116.20
85	5	367	A	C5-C6-N1	5.66	120.53	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	610	G	C4-C5-N7	-5.66	108.54	110.80
85	5	656	A	O5'-P-OP1	-5.66	100.61	105.70
85	5	1361	U	C6-N1-C2	-5.66	117.61	121.00
85	5	1611	G	C8-N9-C4	-5.66	104.14	106.40
85	5	2268	U	O5'-P-OP1	5.66	117.49	110.70
85	5	2648	G	C5-N7-C8	-5.66	101.47	104.30
85	5	3086	A	N1-C6-N6	5.66	122.00	118.60
44	17	47	ARG	NE-CZ-NH1	5.66	123.13	120.30
50	m4	106	ARG	NE-CZ-NH1	5.66	123.13	120.30
59	n3	128	ARG	NE-CZ-NH2	5.66	123.13	120.30
1	2	1068	G	C4-C5-N7	5.66	113.06	110.80
1	2	1391	G	C5-C6-N1	-5.66	108.67	111.50
36	1	776	U	N3-C4-O4	-5.66	115.44	119.40
80	6	349	U	N3-C2-O2	-5.66	118.24	122.20
85	5	626	U	N1-C2-N3	5.66	118.29	114.90
85	5	994	G	N9-C4-C5	5.66	107.66	105.40
85	5	1151	U	O5'-P-OP1	-5.66	100.61	105.70
85	5	1722	U	O5'-P-OP2	-5.66	100.61	105.70
85	5	2378	C	O5'-P-OP1	-5.66	100.61	105.70
85	5	3291	G	N1-C6-O6	5.66	123.29	119.90
38	8	33	A	C4-C5-C6	5.66	119.83	117.00
38	8	42	G	C5-C6-N1	-5.66	108.67	111.50
1	2	16	G	OP1-P-O3'	5.66	117.64	105.20
1	2	346	G	N1-C2-N3	-5.66	120.51	123.90
1	2	1024	G	OP1-P-OP2	5.66	128.08	119.60
1	2	1055	C	O5'-P-OP2	-5.66	100.61	105.70
1	2	1748	A	C6-N1-C2	-5.66	115.21	118.60
8	S6	155	ASP	CB-CG-OD1	5.66	123.39	118.30
36	1	346	C	N3-C4-C5	5.66	124.16	121.90
36	1	896	A	C2-N3-C4	5.66	113.43	110.60
36	1	1064	A	N1-C2-N3	-5.66	126.47	129.30
36	1	1728	G	N3-C2-N2	-5.66	115.94	119.90
36	1	2129	U	N3-C2-O2	-5.66	118.24	122.20
36	1	2161	G	N1-C6-O6	-5.66	116.51	119.90
36	1	2876	C	OP2-P-O3'	5.66	117.64	105.20
80	6	755	A	C5-C6-N6	-5.66	119.18	123.70
80	6	789	A	C5-C6-N6	5.66	128.22	123.70
80	6	991	G	C2-N3-C4	5.66	114.73	111.90
80	6	1100	G	C5-C6-N1	5.66	114.33	111.50
80	6	1288	G	N7-C8-N9	-5.66	110.27	113.10
80	6	1763	A	C8-N9-C4	5.66	108.06	105.80
80	6	1773	C	C2-N3-C4	5.66	122.73	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	71	A	OP1-P-O3'	-5.66	92.76	105.20
85	5	214	G	C5-C6-N1	5.66	114.33	111.50
85	5	506	U	C2-N3-C4	-5.66	123.61	127.00
85	5	774	G	N3-C4-C5	5.66	131.43	128.60
85	5	926	A	O5'-P-OP1	5.66	117.49	110.70
85	5	954	U	OP1-P-OP2	5.66	128.08	119.60
85	5	1227	C	N3-C4-C5	-5.66	119.64	121.90
85	5	2225	U	OP1-P-OP2	-5.66	111.12	119.60
85	5	2643	A	OP1-P-OP2	-5.66	111.12	119.60
85	5	2882	U	O5'-P-OP2	-5.66	100.61	105.70
85	5	2913	C	N1-C2-O2	-5.66	115.51	118.90
85	5	2943	G	O5'-P-OP2	-5.66	100.61	105.70
85	5	3191	G	N1-C2-N3	5.66	127.29	123.90
85	5	3335	A	C5-N7-C8	-5.66	101.07	103.90
37	7	12	U	OP1-P-OP2	-5.66	111.12	119.60
36	1	2375	G	C4-C5-N7	-5.65	108.54	110.80
36	1	3112	G	N3-C4-C5	-5.65	125.77	128.60
80	6	153	G	C4-C5-N7	5.65	113.06	110.80
80	6	718	U	C6-N1-C2	-5.65	117.61	121.00
85	5	145	G	C8-N9-C4	-5.65	104.14	106.40
85	5	432	G	C5-N7-C8	5.65	107.13	104.30
85	5	822	G	OP1-P-OP2	-5.65	111.12	119.60
85	5	1492	G	OP2-P-O3'	5.65	117.64	105.20
85	5	1746	U	C5-C4-O4	5.65	129.29	125.90
38	8	74	U	O5'-P-OP1	5.65	117.48	110.70
41	14	73	ARG	NE-CZ-NH2	5.65	123.13	120.30
1	2	203	U	N3-C2-O2	-5.65	118.24	122.20
1	2	548	G	C5-C6-N1	5.65	114.33	111.50
1	2	849	G	C5-C6-O6	-5.65	125.21	128.60
36	1	213	A	N9-C1'-C2'	-5.65	105.78	112.00
36	1	395	A	N9-C4-C5	5.65	108.06	105.80
36	1	735	A	N7-C8-N9	-5.65	110.97	113.80
36	1	1115	G	C4-N9-C1'	5.65	133.85	126.50
36	1	1355	A	C5-C6-N6	5.65	128.22	123.70
36	1	1737	U	N3-C4-O4	5.65	123.36	119.40
36	1	2343	C	N3-C2-O2	5.65	125.86	121.90
36	1	2624	G	N3-C4-N9	5.65	129.39	126.00
36	1	2918	G	C4-N9-C1'	5.65	133.85	126.50
36	1	2967	A	C8-N9-C4	-5.65	103.54	105.80
36	1	3333	G	N1-C2-N3	5.65	127.29	123.90
80	6	23	G	C5-N7-C8	-5.65	101.47	104.30
80	6	441	A	C5-C6-N6	5.65	128.22	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	929	A	C6-N1-C2	5.65	121.99	118.60
80	6	1019	A	N9-C4-C5	-5.65	103.54	105.80
80	6	1197	C	N1-C2-O2	5.65	122.29	118.90
80	6	1621	U	N3-C4-C5	-5.65	111.21	114.60
85	5	535	G	O4'-C1'-N9	-5.65	103.68	108.20
85	5	591	G	OP1-P-O3'	5.65	117.64	105.20
85	5	1044	U	O5'-P-OP1	5.65	117.48	110.70
85	5	1399	A	OP1-P-OP2	5.65	128.08	119.60
85	5	1597	C	C5-C4-N4	-5.65	116.24	120.20
85	5	2335	G	C4-N9-C1'	5.65	133.85	126.50
85	5	2422	C	N3-C4-N4	-5.65	114.04	118.00
85	5	2640	A	N9-C4-C5	-5.65	103.54	105.80
85	5	3036	G	C4-N9-C1'	5.65	133.85	126.50
85	5	3179	U	C5-C4-O4	-5.65	122.51	125.90
85	5	3240	C	OP2-P-O3'	5.65	117.63	105.20
38	8	67	U	N3-C4-C5	5.65	117.99	114.60
1	2	330	G	C4-C5-N7	-5.65	108.54	110.80
1	2	639	U	O5'-P-OP2	-5.65	100.61	105.70
1	2	1432	U	C6-N1-C2	-5.65	117.61	121.00
1	2	1754	U	N3-C4-C5	-5.65	111.21	114.60
36	1	208	C	N3-C2-O2	-5.65	117.94	121.90
36	1	1041	U	C6-N1-C2	5.65	124.39	121.00
36	1	1207	G	O5'-P-OP2	5.65	117.48	110.70
36	1	1532	C	C2-N3-C4	-5.65	117.07	119.90
36	1	1652	G	C4-C5-N7	5.65	113.06	110.80
36	1	1780	G	C4-N9-C1'	5.65	133.85	126.50
36	1	3069	G	C5-C6-O6	5.65	131.99	128.60
36	1	3382	U	N1-C2-O2	5.65	126.75	122.80
49	M3	104	ARG	NE-CZ-NH2	-5.65	117.47	120.30
80	6	1127	G	N3-C4-N9	-5.65	122.61	126.00
80	6	1266	U	N3-C4-O4	5.65	123.36	119.40
80	6	1605	G	N3-C2-N2	-5.65	115.94	119.90
85	5	204	A	N3-C4-C5	-5.65	122.84	126.80
85	5	666	A	C8-N9-C4	5.65	108.06	105.80
85	5	973	A	OP2-P-O3'	5.65	117.63	105.20
85	5	999	G	N3-C4-C5	5.65	131.43	128.60
85	5	1334	U	N3-C2-O2	-5.65	118.24	122.20
85	5	1374	G	C6-C5-N7	-5.65	127.01	130.40
85	5	3108	G	OP2-P-O3'	5.65	117.63	105.20
1	2	429	G	C6-C5-N7	-5.65	127.01	130.40
1	2	1118	U	C2-N3-C4	-5.65	123.61	127.00
36	1	1673	G	N1-C2-N2	-5.65	111.12	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1952	G	C5-C6-N1	-5.65	108.67	111.50
36	1	2229	A	N9-C4-C5	-5.65	103.54	105.80
36	1	2300	G	N9-C4-C5	5.65	107.66	105.40
36	1	2977	G	C5-C6-N1	5.65	114.33	111.50
36	1	3200	G	C5-C6-O6	5.65	131.99	128.60
80	6	604	A	N1-C6-N6	5.65	121.99	118.60
85	5	2338	C	OP1-P-O3'	5.65	117.63	105.20
85	5	3075	G	O5'-P-OP1	5.65	117.48	110.70
1	2	65	A	N1-C2-N3	5.65	132.12	129.30
1	2	275	C	C4-C5-C6	-5.65	114.58	117.40
1	2	992	U	C2-N3-C4	-5.65	123.61	127.00
1	2	1124	G	N1-C6-O6	5.65	123.29	119.90
1	2	1623	C	N3-C4-N4	-5.65	114.05	118.00
1	2	1625	G	C6-N1-C2	-5.65	121.71	125.10
36	1	983	A	C4-C5-N7	-5.65	107.88	110.70
36	1	2399	A	O5'-P-OP1	-5.65	100.62	105.70
36	1	2687	G	C6-N1-C2	-5.65	121.71	125.10
36	1	3067	C	C2-N1-C1'	-5.65	112.59	118.80
36	1	3109	G	N3-C4-N9	5.65	129.39	126.00
36	1	3171	U	O5'-P-OP2	5.65	117.48	110.70
51	M5	114	ARG	NE-CZ-NH2	5.65	123.12	120.30
80	6	264	G	C4-C5-C6	-5.65	115.41	118.80
80	6	328	A	C5-N7-C8	-5.65	101.08	103.90
80	6	349	U	C5-C6-N1	-5.65	119.88	122.70
80	6	378	A	OP2-P-O3'	5.65	117.62	105.20
80	6	445	A	N7-C8-N9	5.65	116.62	113.80
80	6	610	G	C4-C5-N7	5.65	113.06	110.80
80	6	1129	U	N3-C4-C5	-5.65	111.21	114.60
80	6	1537	C	N3-C4-C5	-5.65	119.64	121.90
85	5	106	A	C4-C5-N7	5.65	113.52	110.70
85	5	189	G	C5-C6-N1	5.65	114.32	111.50
85	5	203	G	N1-C6-O6	5.65	123.29	119.90
85	5	305	U	N1-C2-N3	5.65	118.29	114.90
85	5	1885	U	N3-C4-C5	-5.65	111.21	114.60
85	5	2174	G	OP1-P-O3'	5.65	117.62	105.20
85	5	2418	G	OP1-P-OP2	-5.65	111.13	119.60
85	5	2901	G	C4-C5-N7	5.65	113.06	110.80
85	5	2997	G	N9-C1'-C2'	-5.65	105.79	112.00
85	5	3061	G	C8-N9-C4	-5.65	104.14	106.40
85	5	3111	U	C5-C4-O4	5.65	129.29	125.90
85	5	3157	U	O5'-P-OP1	-5.65	100.62	105.70
85	5	3174	A	C8-N9-C4	5.65	108.06	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
40	l3	70	ARG	NE-CZ-NH2	-5.65	117.48	120.30
50	m4	28	SER	CA-C-O	-5.65	108.24	120.10
52	m6	74	ARG	NE-CZ-NH1	-5.65	117.48	120.30
56	n0	117	ARG	NE-CZ-NH2	-5.65	117.48	120.30
1	2	847	U	N1-C2-O2	-5.65	118.85	122.80
1	2	956	A	C8-N9-C4	-5.65	103.54	105.80
36	1	25	U	OP1-P-OP2	-5.65	111.13	119.60
36	1	750	G	N9-C4-C5	5.65	107.66	105.40
36	1	923	C	O5'-P-OP1	-5.65	100.62	105.70
36	1	930	U	OP1-P-OP2	-5.65	111.13	119.60
36	1	1043	C	C4-C5-C6	-5.65	114.58	117.40
36	1	1802	C	O5'-P-OP1	5.65	117.48	110.70
36	1	1914	G	C5-C6-N1	5.65	114.32	111.50
36	1	2829	U	C4-C5-C6	5.65	123.09	119.70
80	6	322	G	N1-C2-N2	5.65	121.28	116.20
80	6	593	U	C5-C6-N1	5.65	125.52	122.70
80	6	1290	U	C6-N1-C2	-5.65	117.61	121.00
80	6	1578	U	C6-N1-C2	5.65	124.39	121.00
85	5	920	A	C5-C6-N6	-5.65	119.18	123.70
85	5	1017	C	C6-N1-C2	-5.65	118.04	120.30
85	5	1212	A	N3-C4-C5	-5.65	122.85	126.80
85	5	1633	C	O5'-P-OP1	5.65	117.47	110.70
85	5	2368	A	C6-C5-N7	-5.65	128.35	132.30
85	5	3174	A	N7-C8-N9	-5.65	110.98	113.80
1	2	36	C	O4'-C1'-N1	-5.64	103.68	108.20
1	2	150	U	C2-N3-C4	-5.64	123.61	127.00
36	1	20	A	C4-C5-C6	5.64	119.82	117.00
36	1	800	G	N1-C2-N3	5.64	127.29	123.90
36	1	1734	G	OP1-P-OP2	5.64	128.07	119.60
36	1	1769	G	C5-C6-N1	5.64	114.32	111.50
36	1	1778	G	N1-C6-O6	5.64	123.29	119.90
36	1	1937	U	OP1-P-OP2	5.64	128.07	119.60
36	1	2231	C	C5-C6-N1	-5.64	118.18	121.00
36	1	2244	A	N1-C2-N3	5.64	132.12	129.30
36	1	2270	A	N1-C6-N6	-5.64	115.21	118.60
36	1	2833	A	N7-C8-N9	-5.64	110.98	113.80
36	1	3087	A	P-O3'-C3'	-5.64	112.93	119.70
36	1	3206	C	N3-C4-N4	5.64	121.95	118.00
36	1	3359	A	N9-C4-C5	-5.64	103.54	105.80
37	3	99	G	C5-N7-C8	-5.64	101.48	104.30
38	4	13	A	C6-C5-N7	-5.64	128.35	132.30
38	4	113	U	OP1-P-OP2	5.64	128.07	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
44	L7	151	ARG	NE-CZ-NH1	-5.64	117.48	120.30
80	6	979	A	C4-C5-N7	-5.64	107.88	110.70
85	5	239	G	N7-C8-N9	5.64	115.92	113.10
85	5	526	C	N1-C2-O2	5.64	122.29	118.90
85	5	565	U	O5'-P-OP1	5.64	117.47	110.70
85	5	726	G	O5'-P-OP2	-5.64	100.62	105.70
85	5	1192	C	C4-C5-C6	5.64	120.22	117.40
85	5	1594	A	OP1-P-O3'	5.64	117.62	105.20
85	5	1748	G	N1-C2-N2	-5.64	111.12	116.20
85	5	1868	G	C4-N9-C1'	5.64	133.84	126.50
85	5	2303	A	N3-C4-C5	5.64	130.75	126.80
85	5	2608	G	OP1-P-OP2	-5.64	111.13	119.60
85	5	2903	A	N9-C4-C5	5.64	108.06	105.80
85	5	3309	G	C4-C5-C6	5.64	122.19	118.80
37	7	97	A	C6-N1-C2	-5.64	115.21	118.60
1	2	12	U	C6-N1-C2	-5.64	117.61	121.00
1	2	55	A	N1-C6-N6	-5.64	115.22	118.60
1	2	821	G	C4-C5-N7	5.64	113.06	110.80
1	2	1163	C	C6-N1-C2	-5.64	118.04	120.30
6	S4	104	ASP	CB-CG-OD1	-5.64	113.22	118.30
36	1	319	A	C5-C6-N1	-5.64	114.88	117.70
36	1	346	C	O5'-P-OP1	5.64	117.47	110.70
36	1	500	C	OP2-P-O3'	5.64	117.61	105.20
36	1	955	U	C4-C5-C6	5.64	123.09	119.70
36	1	1332	A	N7-C8-N9	5.64	116.62	113.80
36	1	2438	A	O5'-P-OP1	5.64	117.47	110.70
36	1	2844	C	N1-C2-N3	-5.64	115.25	119.20
36	1	3154	C	N3-C2-O2	5.64	125.85	121.90
37	3	119	U	N3-C2-O2	-5.64	118.25	122.20
80	6	169	A	C5-C6-N1	-5.64	114.88	117.70
80	6	625	C	N3-C4-N4	5.64	121.95	118.00
80	6	1417	A	N7-C8-N9	-5.64	110.98	113.80
85	5	49	A	C5-C6-N1	5.64	120.52	117.70
85	5	206	G	C4-C5-N7	-5.64	108.54	110.80
85	5	374	A	C5-C6-N1	5.64	120.52	117.70
85	5	760	G	O5'-P-OP2	-5.64	100.62	105.70
85	5	1142	G	C8-N9-C4	-5.64	104.14	106.40
85	5	1893	A	OP1-P-O3'	-5.64	92.79	105.20
85	5	2403	G	N3-C4-N9	-5.64	122.61	126.00
85	5	2700	G	C5-N7-C8	-5.64	101.48	104.30
85	5	3064	U	N1-C2-N3	5.64	118.29	114.90
85	5	3247	G	N1-C6-O6	5.64	123.29	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	150	G	C4-C5-N7	-5.64	108.54	110.80
1	2	1157	C	N1-C2-O2	5.64	122.28	118.90
1	2	1178	C	N3-C2-O2	-5.64	117.95	121.90
36	1	565	U	N3-C4-O4	-5.64	115.45	119.40
36	1	900	G	N3-C2-N2	-5.64	115.95	119.90
36	1	1147	G	N1-C2-N3	5.64	127.28	123.90
36	1	2969	A	C5-N7-C8	-5.64	101.08	103.90
80	6	590	C	C5-C4-N4	-5.64	116.25	120.20
80	6	612	U	O5'-P-OP2	-5.64	100.62	105.70
85	5	220	G	C5-N7-C8	-5.64	101.48	104.30
85	5	700	C	C6-N1-C2	5.64	122.56	120.30
85	5	1151	U	C6-N1-C2	-5.64	117.62	121.00
85	5	2745	G	N1-C2-N2	-5.64	111.12	116.20
37	7	96	U	C2-N3-C4	-5.64	123.62	127.00
38	8	32	C	O5'-P-OP2	5.64	117.47	110.70
1	2	1330	U	C5-C6-N1	5.64	125.52	122.70
36	1	187	A	C4-C5-N7	5.64	113.52	110.70
36	1	660	A	OP2-P-O3'	-5.64	92.79	105.20
36	1	982	C	C5-C4-N4	-5.64	116.25	120.20
36	1	1480	G	C6-N1-C2	5.64	128.48	125.10
36	1	1653	G	N3-C4-C5	5.64	131.42	128.60
36	1	1719	G	C4-C5-C6	5.64	122.18	118.80
36	1	2275	A	N1-C2-N3	5.64	132.12	129.30
36	1	2372	A	O5'-P-OP2	-5.64	100.62	105.70
80	6	1389	C	C2-N1-C1'	5.64	125.00	118.80
85	5	1435	A	C6-N1-C2	-5.64	115.22	118.60
85	5	2358	A	C4-C5-C6	5.64	119.82	117.00
85	5	2391	G	N1-C2-N3	5.64	127.28	123.90
85	5	2659	G	N1-C2-N2	-5.64	111.12	116.20
85	5	2803	A	C5-N7-C8	-5.64	101.08	103.90
85	5	3045	G	C5-N7-C8	5.64	107.12	104.30
36	1	1385	C	C4-C5-C6	5.64	120.22	117.40
36	1	1879	A	N9-C4-C5	5.64	108.06	105.80
36	1	2265	C	C4-C5-C6	5.64	120.22	117.40
80	6	159	U	OP2-P-O3'	5.64	117.60	105.20
85	5	99	A	O5'-P-OP1	5.64	117.47	110.70
85	5	913	A	C2-N3-C4	5.64	113.42	110.60
85	5	1189	C	N1-C2-N3	5.64	123.15	119.20
85	5	2302	G	N3-C4-N9	-5.64	122.62	126.00
85	5	2871	G	O5'-P-OP1	5.64	117.47	110.70
85	5	3095	U	OP1-P-O3'	5.64	117.60	105.20
1	2	210	A	N1-C2-N3	5.64	132.12	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	306	U	N1-C2-O2	-5.64	118.85	122.80
1	2	535	A	N7-C8-N9	5.64	116.62	113.80
1	2	1002	A	N1-C6-N6	-5.64	115.22	118.60
36	1	18	G	OP1-P-O3'	-5.64	92.80	105.20
36	1	1442	U	C5-C4-O4	-5.64	122.52	125.90
36	1	2142	A	N3-C4-C5	-5.64	122.85	126.80
36	1	2334	U	N3-C4-C5	5.64	117.98	114.60
36	1	2918	G	C6-N1-C2	-5.64	121.72	125.10
36	1	2963	C	N3-C4-N4	5.64	121.94	118.00
36	1	3054	U	N3-C4-C5	-5.64	111.22	114.60
36	1	3205	G	N1-C2-N3	5.64	127.28	123.90
36	1	3355	U	N3-C2-O2	-5.64	118.25	122.20
80	6	646	C	N3-C4-C5	-5.64	119.64	121.90
80	6	1008	G	N3-C4-C5	5.64	131.42	128.60
80	6	1628	U	N3-C2-O2	-5.64	118.25	122.20
85	5	612	U	C4-C5-C6	5.64	123.08	119.70
85	5	651	G	OP2-P-O3'	5.64	117.60	105.20
85	5	900	G	C8-N9-C1'	5.64	134.33	127.00
85	5	1149	G	OP1-P-O3'	5.64	117.60	105.20
85	5	1814	A	O5'-P-OP2	-5.64	100.63	105.70
85	5	1836	C	N1-C2-O2	-5.64	115.52	118.90
85	5	2585	G	C2-N3-C4	5.64	114.72	111.90
85	5	3108	G	C2-N3-C4	-5.64	109.08	111.90
85	5	3142	A	C5'-C4'-O4'	5.64	115.86	109.10
85	5	3196	U	N1-C2-N3	-5.64	111.52	114.90
85	5	3368	U	C2-N3-C4	-5.64	123.62	127.00
38	8	116	G	N3-C4-C5	5.64	131.42	128.60
1	2	81	G	C6-C5-N7	-5.63	127.02	130.40
1	2	1098	U	C4-C5-C6	5.63	123.08	119.70
36	1	623	U	C4-C5-C6	-5.63	116.32	119.70
36	1	1118	C	C5-C6-N1	5.63	123.82	121.00
36	1	2908	G	N3-C2-N2	5.63	123.84	119.90
38	4	53	A	N7-C8-N9	-5.63	110.98	113.80
38	4	112	U	N3-C4-C5	-5.63	111.22	114.60
41	L4	362	ASP	CB-CG-OD1	-5.63	113.23	118.30
80	6	361	C	OP2-P-O3'	5.63	117.60	105.20
85	5	994	G	C4-N9-C1'	5.63	133.82	126.50
85	5	996	A	C8-N9-C4	-5.63	103.55	105.80
85	5	1471	U	N3-C4-O4	-5.63	115.45	119.40
85	5	1604	G	C2-N3-C4	5.63	114.72	111.90
85	5	1800	A	N3-C4-C5	-5.63	122.86	126.80
85	5	1861	G	C8-N9-C4	-5.63	104.15	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2686	A	N1-C2-N3	5.63	132.12	129.30
85	5	3086	A	C6-C5-N7	-5.63	128.35	132.30
37	7	54	U	C4-C5-C6	5.63	123.08	119.70
37	7	115	G	OP1-P-OP2	5.63	128.05	119.60
1	2	1564	C	C6-N1-C2	5.63	122.55	120.30
36	1	985	U	C5-C6-N1	-5.63	119.88	122.70
36	1	1449	A	C4-C5-N7	-5.63	107.88	110.70
36	1	3032	A	N1-C6-N6	-5.63	115.22	118.60
80	6	25	C	C5-C4-N4	-5.63	116.26	120.20
80	6	596	C	N3-C4-C5	-5.63	119.65	121.90
85	5	329	U	N1-C2-N3	5.63	118.28	114.90
85	5	363	G	C2-N3-C4	-5.63	109.08	111.90
85	5	547	G	C2-N3-C4	5.63	114.72	111.90
85	5	1468	A	C5-C6-N1	5.63	120.52	117.70
37	7	84	A	N1-C6-N6	-5.63	115.22	118.60
52	m6	128	ARG	NE-CZ-NH1	-5.63	117.48	120.30
1	2	1348	C	N3-C2-O2	-5.63	117.96	121.90
36	1	89	A	C5-C6-N6	5.63	128.21	123.70
36	1	504	A	N9-C4-C5	5.63	108.05	105.80
36	1	1901	A	N1-C2-N3	5.63	132.12	129.30
36	1	2370	G	C6-C5-N7	5.63	133.78	130.40
37	3	32	U	C5-C6-N1	5.63	125.52	122.70
80	6	963	A	N1-C2-N3	-5.63	126.48	129.30
80	6	1596	C	C2-N3-C4	-5.63	117.08	119.90
80	6	1627	U	N3-C4-O4	5.63	123.34	119.40
85	5	663	C	C5-C4-N4	5.63	124.14	120.20
85	5	1437	C	N1-C2-N3	5.63	123.14	119.20
85	5	1620	U	N3-C2-O2	-5.63	118.26	122.20
85	5	2976	A	O5'-P-OP2	5.63	117.46	110.70
44	17	53	LYS	CD-CE-NZ	5.63	124.65	111.70
46	19	23	ARG	NE-CZ-NH2	-5.63	117.48	120.30
1	2	14	C	C6-N1-C2	-5.63	118.05	120.30
1	2	950	A	C5-C6-N6	-5.63	119.20	123.70
1	2	979	U	N3-C4-C5	5.63	117.98	114.60
1	2	1136	G	C8-N9-C4	5.63	108.65	106.40
36	1	1098	A	N1-C6-N6	5.63	121.98	118.60
36	1	2345	A	O5'-P-OP2	-5.63	100.63	105.70
36	1	3009	G	C5-C6-O6	-5.63	125.22	128.60
38	4	134	G	N1-C2-N2	5.63	121.27	116.20
80	6	388	G	N1-C2-N2	-5.63	111.13	116.20
80	6	810	G	N3-C4-C5	5.63	131.41	128.60
85	5	933	A	OP1-P-OP2	5.63	128.04	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	984	G	N9-C4-C5	-5.63	103.15	105.40
85	5	1407	A	C4-C5-N7	5.63	113.52	110.70
85	5	2630	C	C2-N3-C4	5.63	122.72	119.90
85	5	3169	U	C2-N3-C4	-5.63	123.62	127.00
1	2	49	C	N1-C2-O2	-5.63	115.52	118.90
1	2	787	A	C5-C6-N1	-5.63	114.89	117.70
1	2	1162	G	N3-C4-C5	5.63	131.41	128.60
1	2	1445	G	N3-C2-N2	5.63	123.84	119.90
1	2	1528	A	N9-C4-C5	-5.63	103.55	105.80
1	2	1550	U	N3-C4-C5	-5.63	111.22	114.60
1	2	1742	C	N1-C2-O2	-5.63	115.52	118.90
36	1	2114	C	C6-N1-C2	5.63	122.55	120.30
36	1	2828	G	C5-N7-C8	5.63	107.11	104.30
36	1	2959	C	OP1-P-O3'	-5.63	92.82	105.20
36	1	3030	G	C5-C6-O6	5.63	131.98	128.60
37	3	109	G	N7-C8-N9	5.63	115.91	113.10
38	4	101	U	C2-N1-C1'	5.63	124.45	117.70
39	L2	6	ARG	NE-CZ-NH2	-5.63	117.49	120.30
80	6	1397	U	N3-C2-O2	-5.63	118.26	122.20
80	6	1746	A	C6-C5-N7	-5.63	128.36	132.30
85	5	525	C	C5-C6-N1	-5.63	118.19	121.00
85	5	2527	G	C5-N7-C8	5.63	107.11	104.30
85	5	2795	U	C4-C5-C6	-5.63	116.32	119.70
85	5	3370	A	N9-C4-C5	5.63	108.05	105.80
1	2	789	A	C8-N9-C4	-5.63	103.55	105.80
36	1	175	C	OP1-P-OP2	-5.63	111.16	119.60
36	1	262	U	C4-C5-C6	-5.63	116.32	119.70
36	1	688	G	C4-C5-C6	5.63	122.18	118.80
36	1	1064	A	OP2-P-O3'	5.63	117.58	105.20
36	1	1149	G	N9-C4-C5	5.63	107.65	105.40
36	1	1336	U	OP1-P-OP2	-5.63	111.16	119.60
36	1	1345	G	N3-C2-N2	-5.63	115.96	119.90
36	1	1447	G	C6-N1-C2	-5.63	121.72	125.10
36	1	1664	G	N1-C2-N3	5.63	127.28	123.90
36	1	1785	U	C2-N1-C1'	-5.63	110.95	117.70
36	1	1848	G	C5-C6-O6	-5.63	125.22	128.60
36	1	2168	A	O5'-P-OP2	-5.63	100.64	105.70
36	1	2518	C	C6-N1-C2	5.63	122.55	120.30
36	1	2703	A	C8-N9-C4	5.63	108.05	105.80
36	1	2703	A	C6-N1-C2	5.63	121.98	118.60
36	1	2963	C	O5'-P-OP1	-5.63	100.64	105.70
36	1	3089	C	C5-C4-N4	-5.63	116.26	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3109	G	N3-C4-C5	-5.63	125.79	128.60
36	1	3370	A	OP1-P-O3'	5.63	117.58	105.20
38	4	94	C	N3-C2-O2	-5.63	117.96	121.90
80	6	183	U	C5-C6-N1	-5.63	119.89	122.70
80	6	1318	G	O4'-C1'-N9	-5.63	103.70	108.20
80	6	1566	U	C5-C6-N1	-5.63	119.89	122.70
85	5	96	G	C6-N1-C2	5.63	128.47	125.10
85	5	247	C	C4-C5-C6	-5.63	114.59	117.40
85	5	385	A	C4-C5-C6	5.63	119.81	117.00
85	5	1107	C	OP1-P-OP2	5.63	128.04	119.60
85	5	1113	G	N9-C4-C5	5.63	107.65	105.40
85	5	1119	C	C5-C6-N1	-5.63	118.19	121.00
85	5	1179	A	N1-C6-N6	-5.63	115.22	118.60
85	5	1854	C	N1-C2-O2	-5.63	115.53	118.90
85	5	2185	G	N3-C2-N2	-5.63	115.96	119.90
85	5	2557	A	C8-N9-C4	5.63	108.05	105.80
85	5	2781	U	OP1-P-O3'	5.63	117.58	105.20
46	19	153	ASP	CB-CG-OD2	5.63	123.36	118.30
36	1	535	G	C5-C6-N1	-5.62	108.69	111.50
36	1	1263	A	C8-N9-C4	-5.62	103.55	105.80
36	1	2960	C	O5'-P-OP2	-5.62	100.64	105.70
38	4	105	A	C5-N7-C8	-5.62	101.09	103.90
80	6	380	U	C5-C4-O4	5.62	129.28	125.90
8	s6	177	ARG	NE-CZ-NH1	-5.62	117.49	120.30
85	5	1906	G	N7-C8-N9	5.62	115.91	113.10
85	5	2093	A	OP1-P-OP2	5.62	128.04	119.60
85	5	3239	G	N9-C4-C5	-5.62	103.15	105.40
38	8	99	C	C2-N3-C4	5.62	122.71	119.90
1	2	278	U	C2-N3-C4	5.62	130.37	127.00
1	2	964	U	C4-C5-C6	5.62	123.07	119.70
36	1	1094	U	O5'-P-OP2	-5.62	100.64	105.70
36	1	1183	C	C2-N1-C1'	5.62	124.99	118.80
36	1	1655	G	C4-C5-N7	5.62	113.05	110.80
36	1	2410	U	N3-C4-C5	5.62	117.97	114.60
36	1	2756	C	C6-N1-C2	-5.62	118.05	120.30
36	1	2770	G	N1-C6-O6	-5.62	116.53	119.90
80	6	834	G	N3-C4-C5	5.62	131.41	128.60
80	6	921	U	C2-N3-C4	-5.62	123.63	127.00
80	6	1132	A	C5-N7-C8	-5.62	101.09	103.90
80	6	1653	C	N1-C2-N3	5.62	123.14	119.20
85	5	574	U	OP1-P-O3'	5.62	117.57	105.20
85	5	673	U	OP2-P-O3'	5.62	117.57	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	685	G	N3-C4-C5	5.62	131.41	128.60
85	5	737	G	C6-C5-N7	5.62	133.77	130.40
85	5	1009	A	C4-C5-N7	5.62	113.51	110.70
85	5	1517	G	C4-C5-N7	-5.62	108.55	110.80
85	5	1546	A	N3-C4-C5	5.62	130.74	126.80
85	5	2644	C	N1-C2-O2	5.62	122.27	118.90
85	5	3035	A	C6-N1-C2	-5.62	115.23	118.60
38	8	31	G	N3-C2-N2	-5.62	115.96	119.90
38	8	65	A	N3-C4-C5	-5.62	122.86	126.80
1	2	499	U	P-O3'-C3'	5.62	126.44	119.70
1	2	1467	G	C4-C5-N7	-5.62	108.55	110.80
36	1	11	A	OP1-P-O3'	5.62	117.57	105.20
36	1	253	A	C8-N9-C4	-5.62	103.55	105.80
36	1	424	G	C8-N9-C4	5.62	108.65	106.40
36	1	562	C	N3-C2-O2	-5.62	117.97	121.90
36	1	1198	C	C5-C6-N1	5.62	123.81	121.00
36	1	1361	U	OP2-P-O3'	5.62	117.57	105.20
36	1	1782	U	OP1-P-O3'	5.62	117.57	105.20
36	1	1938	U	C5-C6-N1	5.62	125.51	122.70
36	1	2191	U	N3-C4-O4	5.62	123.33	119.40
36	1	2416	U	C2-N3-C4	-5.62	123.63	127.00
36	1	2523	A	C8-N9-C4	-5.62	103.55	105.80
36	1	2610	G	C4-C5-C6	5.62	122.17	118.80
36	1	2998	U	N3-C4-O4	5.62	123.33	119.40
38	4	151	C	N3-C2-O2	5.62	125.83	121.90
80	6	443	C	N1-C2-O2	5.62	122.27	118.90
80	6	448	C	N3-C2-O2	-5.62	117.97	121.90
80	6	1005	A	OP1-P-O3'	5.62	117.57	105.20
80	6	1107	G	N7-C8-N9	5.62	115.91	113.10
80	6	1222	C	C5-C6-N1	5.62	123.81	121.00
80	6	1423	U	C4-C5-C6	5.62	123.07	119.70
85	5	71	A	C4-C5-C6	5.62	119.81	117.00
85	5	315	C	N1-C2-O2	5.62	122.27	118.90
85	5	330	G	C8-N9-C1'	5.62	134.31	127.00
85	5	548	G	N7-C8-N9	5.62	115.91	113.10
85	5	1055	A	C4-C5-N7	-5.62	107.89	110.70
85	5	1670	C	OP2-P-O3'	5.62	117.56	105.20
85	5	1738	C	N3-C4-C5	-5.62	119.65	121.90
85	5	1779	C	N3-C4-C5	5.62	124.15	121.90
85	5	1785	U	C5-C4-O4	5.62	129.27	125.90
85	5	1920	U	C6-N1-C2	-5.62	117.63	121.00
85	5	1952	G	OP1-P-OP2	5.62	128.03	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2111	G	C6-C5-N7	-5.62	127.03	130.40
85	5	2206	G	O4'-C1'-N9	5.62	112.70	108.20
85	5	2375	G	O4'-C1'-N9	5.62	112.70	108.20
85	5	2378	C	N3-C2-O2	5.62	125.83	121.90
37	7	29	C	C4-C5-C6	5.62	120.21	117.40
55	m9	20	ARG	NE-CZ-NH1	5.62	123.11	120.30
36	1	38	U	O4'-C1'-N1	-5.62	103.70	108.20
36	1	313	A	OP2-P-O3'	5.62	117.56	105.20
36	1	1329	U	OP1-P-OP2	5.62	128.03	119.60
36	1	2627	C	N1-C2-N3	5.62	123.13	119.20
38	4	85	G	C5-C6-N1	5.62	114.31	111.50
80	6	317	C	C5-C6-N1	-5.62	118.19	121.00
85	5	1170	A	C4-N9-C1'	5.62	136.42	126.30
85	5	1521	G	OP1-P-O3'	5.62	117.56	105.20
85	5	1849	C	OP1-P-O3'	5.62	117.56	105.20
85	5	2625	C	N3-C2-O2	5.62	125.83	121.90
85	5	2703	A	C4-C5-N7	5.62	113.51	110.70
85	5	3378	C	C5-C6-N1	5.62	123.81	121.00
37	7	100	C	C5-C4-N4	-5.62	116.27	120.20
38	8	40	A	N9-C4-C5	5.62	108.05	105.80
38	8	106	C	C2-N3-C4	5.62	122.71	119.90
1	2	1124	G	C5-C6-N1	-5.62	108.69	111.50
36	1	105	C	OP1-P-O3'	5.62	117.56	105.20
36	1	353	G	N3-C4-C5	-5.62	125.79	128.60
36	1	435	C	OP2-P-O3'	5.62	117.56	105.20
36	1	683	U	C2-N3-C4	-5.62	123.63	127.00
36	1	944	C	OP1-P-OP2	5.62	128.03	119.60
36	1	1440	G	C4-C5-C6	5.62	122.17	118.80
36	1	1560	G	C2-N3-C4	5.62	114.71	111.90
36	1	1594	A	C8-N9-C4	-5.62	103.55	105.80
36	1	1666	G	C4-C5-N7	5.62	113.05	110.80
36	1	2443	A	C5-N7-C8	-5.62	101.09	103.90
36	1	2946	A	C5-C6-N1	5.62	120.51	117.70
36	1	3134	A	OP1-P-O3'	5.62	117.56	105.20
80	6	612	U	N3-C2-O2	-5.62	118.27	122.20
80	6	1133	A	C2-N3-C4	-5.62	107.79	110.60
80	6	1296	A	N7-C8-N9	-5.62	110.99	113.80
85	5	954	U	C2-N3-C4	-5.62	123.63	127.00
85	5	2120	A	N9-C4-C5	5.62	108.05	105.80
85	5	2402	A	OP1-P-O3'	5.62	117.56	105.20
85	5	2519	A	OP1-P-O3'	5.62	117.56	105.20
85	5	2664	C	N1-C2-N3	-5.62	115.27	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3143	C	N1-C2-O2	-5.62	115.53	118.90
1	2	951	U	N3-C2-O2	-5.62	118.27	122.20
36	1	1307	G	N3-C4-N9	5.62	129.37	126.00
36	1	1602	A	N7-C8-N9	-5.62	110.99	113.80
36	1	1863	G	C2-N3-C4	-5.62	109.09	111.90
36	1	1886	A	C4-C5-C6	5.62	119.81	117.00
36	1	2736	A	OP1-P-OP2	5.62	128.03	119.60
36	1	3128	G	C4-N9-C1'	5.62	133.80	126.50
36	1	3353	G	N1-C6-O6	5.62	123.27	119.90
80	6	1389	C	N1-C2-O2	5.62	122.27	118.90
80	6	1473	U	N3-C4-O4	5.62	123.33	119.40
80	6	1788	G	C6-C5-N7	-5.62	127.03	130.40
85	5	594	U	C5'-C4'-C3'	-5.62	107.01	116.00
85	5	1369	A	C4-C5-C6	5.62	119.81	117.00
85	5	2791	G	N7-C8-N9	-5.62	110.29	113.10
85	5	3123	A	C2-N3-C4	-5.62	107.79	110.60
1	2	258	C	O5'-P-OP2	-5.62	100.65	105.70
1	2	341	A	C5-N7-C8	-5.62	101.09	103.90
36	1	97	U	C2-N1-C1'	-5.62	110.96	117.70
36	1	730	C	C6-N1-C1'	-5.62	114.06	120.80
36	1	1786	G	C6-N1-C2	-5.62	121.73	125.10
36	1	2138	A	C5-C6-N6	-5.62	119.21	123.70
36	1	2141	U	N1-C2-O2	5.62	126.73	122.80
36	1	2398	A	N1-C2-N3	5.62	132.11	129.30
36	1	2606	G	C4-N9-C1'	5.62	133.80	126.50
36	1	2613	U	C5-C4-O4	5.62	129.27	125.90
36	1	2619	G	C5-C6-O6	5.62	131.97	128.60
36	1	3012	A	C5-C6-N1	5.62	120.51	117.70
36	1	3246	G	C5-C6-O6	5.62	131.97	128.60
37	3	22	A	C2-N3-C4	5.62	113.41	110.60
38	4	93	U	N1-C2-O2	-5.62	118.87	122.80
80	6	42	G	C8-N9-C4	-5.62	104.15	106.40
80	6	384	G	C6-N1-C2	-5.62	121.73	125.10
80	6	462	G	C8-N9-C4	5.62	108.65	106.40
80	6	1057	U	C5-C4-O4	5.62	129.27	125.90
80	6	1214	U	C6-N1-C1'	-5.62	113.34	121.20
85	5	596	C	C4-C5-C6	5.62	120.21	117.40
85	5	986	U	OP2-P-O3'	5.62	117.56	105.20
85	5	1060	U	N3-C4-O4	-5.62	115.47	119.40
85	5	1340	G	N7-C8-N9	-5.62	110.29	113.10
85	5	1740	U	N3-C4-C5	5.62	117.97	114.60
85	5	2177	G	N1-C6-O6	5.62	123.27	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2679	A	C4-C5-N7	5.62	113.51	110.70
38	8	60	U	O5'-P-OP2	-5.62	100.65	105.70
1	2	915	U	C5-C4-O4	5.61	129.27	125.90
1	2	1229	C	O4'-C1'-N1	5.61	112.69	108.20
1	2	1354	A	C8-N9-C4	5.61	108.05	105.80
1	2	1391	G	C2-N3-C4	-5.61	109.09	111.90
1	2	1471	G	C8-N9-C4	-5.61	104.16	106.40
1	2	1640	U	OP2-P-O3'	5.61	117.55	105.20
36	1	32	U	C5'-C4'-O4'	-5.61	102.36	109.10
36	1	147	U	C5-C4-O4	5.61	129.27	125.90
36	1	947	G	C4-N9-C1'	5.61	133.80	126.50
36	1	1782	U	N3-C2-O2	5.61	126.13	122.20
36	1	2550	U	C5-C4-O4	5.61	129.27	125.90
85	5	1194	G	N7-C8-N9	5.61	115.91	113.10
85	5	1724	U	C5-C6-N1	-5.61	119.89	122.70
85	5	1775	G	C8-N9-C4	5.61	108.65	106.40
85	5	2247	G	N3-C4-N9	-5.61	122.63	126.00
85	5	2298	U	N3-C4-C5	-5.61	111.23	114.60
85	5	2618	G	N1-C2-N2	-5.61	111.15	116.20
85	5	2933	A	C5-C6-N6	5.61	128.19	123.70
85	5	2947	G	OP1-P-O3'	5.61	117.55	105.20
85	5	3141	A	OP1-P-OP2	5.61	128.02	119.60
1	2	40	A	O5'-P-OP1	5.61	117.43	110.70
1	2	937	G	N1-C6-O6	5.61	123.27	119.90
1	2	1374	A	C8-N9-C4	5.61	108.05	105.80
36	1	1659	U	C5-C4-O4	5.61	129.27	125.90
36	1	2144	A	OP1-P-O3'	5.61	117.55	105.20
36	1	3174	A	C2-N3-C4	-5.61	107.79	110.60
80	6	1152	A	OP1-P-OP2	5.61	128.02	119.60
80	6	1161	C	N3-C2-O2	-5.61	117.97	121.90
85	5	30	G	C4-C5-N7	5.61	113.05	110.80
85	5	390	G	C8-N9-C1'	5.61	134.29	127.00
85	5	853	G	C6-N1-C2	-5.61	121.73	125.10
85	5	1486	G	C6-N1-C2	-5.61	121.73	125.10
36	1	69	C	C4-C5-C6	5.61	120.20	117.40
36	1	286	U	C4-C5-C6	5.61	123.07	119.70
36	1	1119	C	C2-N1-C1'	-5.61	112.63	118.80
36	1	1663	C	N1-C2-O2	-5.61	115.53	118.90
36	1	1940	G	N3-C4-C5	5.61	131.41	128.60
36	1	2967	A	C4-C5-C6	5.61	119.81	117.00
80	6	40	A	N9-C4-C5	5.61	108.04	105.80
80	6	156	A	N7-C8-N9	-5.61	111.00	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	786	C	N3-C4-C5	-5.61	119.66	121.90
80	6	1155	G	C8-N9-C1'	5.61	134.29	127.00
80	6	1254	U	N3-C2-O2	5.61	126.13	122.20
80	6	1264	G	C5-N7-C8	5.61	107.11	104.30
80	6	1450	U	C4-C5-C6	-5.61	116.33	119.70
80	6	1610	G	C2-N3-C4	-5.61	109.09	111.90
85	5	28	C	C6-N1-C2	5.61	122.54	120.30
85	5	354	U	N1-C2-O2	-5.61	118.87	122.80
85	5	945	C	C2-N1-C1'	5.61	124.97	118.80
85	5	1223	A	C4-C5-N7	-5.61	107.89	110.70
85	5	1293	U	OP2-P-O3'	5.61	117.55	105.20
85	5	1313	G	C6-C5-N7	-5.61	127.03	130.40
85	5	1944	U	C4-C5-C6	5.61	123.07	119.70
85	5	2400	G	O4'-C1'-N9	5.61	112.69	108.20
85	5	2421	U	C6-N1-C2	-5.61	117.63	121.00
85	5	3018	C	C6-N1-C2	-5.61	118.06	120.30
85	5	3169	U	N3-C4-C5	5.61	117.97	114.60
38	8	14	C	N1-C2-N3	5.61	123.13	119.20
38	8	99	C	C4-C5-C6	-5.61	114.59	117.40
68	o2	44	ARG	NE-CZ-NH1	-5.61	117.49	120.30
1	2	1014	U	N3-C4-O4	-5.61	115.47	119.40
1	2	1086	U	C4-C5-C6	-5.61	116.33	119.70
1	2	1223	U	C5-C4-O4	5.61	129.27	125.90
36	1	1289	G	C4-C5-N7	5.61	113.04	110.80
80	6	879	G	N9-C4-C5	5.61	107.64	105.40
80	6	1320	U	N3-C4-O4	-5.61	115.47	119.40
80	6	1325	A	N1-C6-N6	5.61	121.97	118.60
85	5	1444	G	N3-C2-N2	-5.61	115.97	119.90
85	5	2269	U	N1-C2-N3	5.61	118.27	114.90
85	5	3199	G	C5-C6-O6	5.61	131.97	128.60
85	5	3316	A	C5-C6-N6	5.61	128.19	123.70
37	7	110	G	N9-C4-C5	-5.61	103.16	105.40
38	8	65	A	C2-N3-C4	5.61	113.41	110.60
1	2	594	A	N7-C8-N9	-5.61	111.00	113.80
1	2	770	G	N1-C2-N3	5.61	127.27	123.90
1	2	1634	A	N1-C6-N6	5.61	121.97	118.60
1	2	1651	G	C5-C6-N1	-5.61	108.70	111.50
36	1	224	C	N3-C4-N4	5.61	121.92	118.00
36	1	654	C	C2-N3-C4	5.61	122.70	119.90
36	1	904	A	N7-C8-N9	-5.61	111.00	113.80
36	1	1326	A	OP1-P-O3'	5.61	117.54	105.20
36	1	1430	U	C6-N1-C2	5.61	124.36	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1691	U	C5-C4-O4	5.61	129.26	125.90
36	1	2513	U	OP1-P-OP2	-5.61	111.19	119.60
36	1	3044	G	C4-C5-N7	-5.61	108.56	110.80
37	3	102	A	C8-N9-C4	5.61	108.04	105.80
38	4	112	U	C5-C4-O4	5.61	129.26	125.90
80	6	1413	U	C4-C5-C6	-5.61	116.33	119.70
80	6	1662	G	N7-C8-N9	-5.61	110.30	113.10
85	5	344	A	OP2-P-O3'	5.61	117.54	105.20
85	5	567	G	C6-C5-N7	-5.61	127.04	130.40
85	5	732	C	C5-C4-N4	-5.61	116.28	120.20
85	5	863	C	C5-C4-N4	-5.61	116.28	120.20
85	5	1606	U	N3-C4-C5	-5.61	111.24	114.60
85	5	2685	C	OP1-P-O3'	-5.61	92.86	105.20
85	5	2710	C	C5-C4-N4	-5.61	116.27	120.20
85	5	2827	U	N3-C4-O4	5.61	123.33	119.40
85	5	3240	C	N1-C2-N3	-5.61	115.28	119.20
57	n1	10	ARG	NE-CZ-NH2	5.61	123.10	120.30
1	2	339	C	C6-N1-C2	-5.61	118.06	120.30
1	2	560	U	N3-C2-O2	-5.61	118.28	122.20
1	2	1092	G	N3-C4-N9	-5.61	122.64	126.00
1	2	1298	U	C5-C6-N1	-5.61	119.90	122.70
1	2	1560	A	C5-N7-C8	-5.61	101.10	103.90
36	1	354	U	OP1-P-OP2	5.61	128.01	119.60
36	1	888	A	OP2-P-O3'	5.61	117.53	105.20
36	1	1304	A	C6-C5-N7	5.61	136.22	132.30
36	1	1532	C	C5-C6-N1	-5.61	118.20	121.00
36	1	1596	C	C5-C6-N1	-5.61	118.20	121.00
36	1	1606	U	N3-C2-O2	5.61	126.12	122.20
36	1	2181	C	C5-C4-N4	-5.61	116.28	120.20
36	1	2869	U	N1-C2-N3	5.61	118.26	114.90
38	4	25	G	OP1-P-OP2	5.61	128.01	119.60
85	5	564	G	O4'-C1'-N9	-5.61	103.72	108.20
85	5	639	G	C5-N7-C8	-5.61	101.50	104.30
85	5	717	C	N3-C4-C5	5.61	124.14	121.90
85	5	962	A	N3-C4-C5	-5.61	122.88	126.80
85	5	1035	G	N9-C4-C5	5.61	107.64	105.40
85	5	1307	G	N7-C8-N9	-5.61	110.30	113.10
85	5	2181	C	N3-C4-C5	5.61	124.14	121.90
85	5	2568	C	C6-N1-C2	5.61	122.54	120.30
85	5	2787	G	C6-C5-N7	-5.61	127.04	130.40
85	5	2801	A	C6-C5-N7	5.61	136.22	132.30
85	5	3380	U	N3-C4-C5	5.61	117.96	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3384	U	C4-C5-C6	5.61	123.06	119.70
1	2	436	A	C6-N1-C2	-5.60	115.24	118.60
1	2	595	G	N1-C2-N3	5.60	127.26	123.90
36	1	1341	U	O4'-C1'-N1	-5.60	103.72	108.20
36	1	2753	G	C6-C5-N7	5.60	133.76	130.40
80	6	424	C	C4-C5-C6	-5.60	114.60	117.40
80	6	465	G	C6-C5-N7	-5.60	127.04	130.40
80	6	938	G	C6-C5-N7	-5.60	127.04	130.40
85	5	588	G	P-O3'-C3'	-5.60	112.97	119.70
85	5	971	G	C4-C5-N7	5.60	113.04	110.80
85	5	1134	G	C6-N1-C2	-5.60	121.74	125.10
85	5	1652	G	N9-C4-C5	5.60	107.64	105.40
85	5	1784	G	C4-C5-C6	5.60	122.16	118.80
85	5	1917	C	OP2-P-O3'	5.60	117.53	105.20
85	5	2642	A	N3-C4-C5	5.60	130.72	126.80
1	2	650	U	C5-C6-N1	5.60	125.50	122.70
1	2	698	U	C5-C6-N1	5.60	125.50	122.70
1	2	770	G	N9-C4-C5	5.60	107.64	105.40
1	2	1470	A	C2-N3-C4	-5.60	107.80	110.60
36	1	434	U	N3-C2-O2	-5.60	118.28	122.20
36	1	513	G	C5-N7-C8	5.60	107.10	104.30
36	1	822	G	C4-C5-C6	5.60	122.16	118.80
36	1	1105	A	C4-C5-C6	5.60	119.80	117.00
36	1	1619	A	C8-N9-C4	5.60	108.04	105.80
36	1	2269	U	C5-C4-O4	5.60	129.26	125.90
36	1	2378	C	N1-C2-O2	-5.60	115.54	118.90
80	6	48	G	OP2-P-O3'	5.60	117.53	105.20
80	6	383	G	P-O3'-C3'	-5.60	112.98	119.70
80	6	1035	G	C5-C6-N1	5.60	114.30	111.50
85	5	390	G	C6-C5-N7	-5.60	127.04	130.40
85	5	685	G	N9-C4-C5	-5.60	103.16	105.40
85	5	792	G	N7-C8-N9	-5.60	110.30	113.10
85	5	793	C	OP1-P-O3'	5.60	117.52	105.20
85	5	887	G	C5-C6-O6	-5.60	125.24	128.60
85	5	993	G	N1-C2-N2	-5.60	111.16	116.20
85	5	1137	C	C2-N1-C1'	5.60	124.96	118.80
85	5	1204	A	C5-C6-N1	-5.60	114.90	117.70
85	5	1603	A	N3-C4-C5	-5.60	122.88	126.80
85	5	2138	A	C8-N9-C4	-5.60	103.56	105.80
85	5	2439	A	N9-C4-C5	-5.60	103.56	105.80
85	5	2970	C	OP1-P-O3'	5.60	117.52	105.20
85	5	3219	G	N1-C6-O6	5.60	123.26	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3298	C	C6-N1-C2	5.60	122.54	120.30
51	m5	49	ARG	NE-CZ-NH2	-5.60	117.50	120.30
1	2	505	A	C2-N3-C4	5.60	113.40	110.60
36	1	331	G	C6-C5-N7	-5.60	127.04	130.40
36	1	547	G	C5-N7-C8	-5.60	101.50	104.30
36	1	1440	G	C5-C6-N1	-5.60	108.70	111.50
36	1	2387	A	C5-C6-N1	-5.60	114.90	117.70
80	6	359	A	C4-C5-N7	5.60	113.50	110.70
80	6	1201	G	N9-C4-C5	-5.60	103.16	105.40
80	6	1765	A	N9-C4-C5	5.60	108.04	105.80
85	5	682	U	C5-C4-O4	5.60	129.26	125.90
85	5	1780	G	N7-C8-N9	5.60	115.90	113.10
85	5	2777	G	OP1-P-O3'	5.60	117.52	105.20
85	5	3156	U	N3-C2-O2	-5.60	118.28	122.20
1	2	1349	U	O4'-C1'-N1	5.60	112.68	108.20
1	2	1558	G	N1-C6-O6	-5.60	116.54	119.90
36	1	308	A	N1-C6-N6	-5.60	115.24	118.60
36	1	604	G	C6-C5-N7	-5.60	127.04	130.40
36	1	818	C	N3-C4-N4	5.60	121.92	118.00
36	1	1710	C	C6-N1-C2	-5.60	118.06	120.30
36	1	1859	A	C4-C5-N7	-5.60	107.90	110.70
36	1	2977	G	N1-C2-N2	-5.60	111.16	116.20
70	O4	31	ARG	NE-CZ-NH2	-5.60	117.50	120.30
80	6	56	U	OP2-P-O3'	5.60	117.52	105.20
80	6	404	G	O5'-P-OP1	-5.60	100.66	105.70
80	6	407	A	N7-C8-N9	5.60	116.60	113.80
80	6	577	G	N1-C6-O6	5.60	123.26	119.90
80	6	1041	G	N3-C2-N2	-5.60	115.98	119.90
80	6	1368	G	C2-N3-C4	-5.60	109.10	111.90
80	6	1662	G	C4-C5-C6	5.60	122.16	118.80
80	6	1767	G	O5'-P-OP2	-5.60	100.66	105.70
85	5	65	A	C4-C5-N7	5.60	113.50	110.70
85	5	494	G	C5-N7-C8	-5.60	101.50	104.30
85	5	801	A	N9-C4-C5	5.60	108.04	105.80
85	5	1415	U	C5-C4-O4	5.60	129.26	125.90
85	5	1554	U	N1-C2-O2	-5.60	118.88	122.80
85	5	1846	C	C6-N1-C1'	-5.60	114.08	120.80
85	5	2516	U	N3-C4-C5	-5.60	111.24	114.60
85	5	2880	U	C6-N1-C1'	5.60	129.04	121.20
85	5	3027	A	C8-N9-C4	-5.60	103.56	105.80
85	5	3183	A	O5'-P-OP1	5.60	117.42	110.70
85	5	3229	G	N7-C8-N9	-5.60	110.30	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
40	l3	247	ARG	NE-CZ-NH1	-5.60	117.50	120.30
1	2	5	U	C6-N1-C2	-5.60	117.64	121.00
1	2	797	A	C2-N3-C4	-5.60	107.80	110.60
1	2	1368	G	C4-C5-N7	5.60	113.04	110.80
36	1	337	G	N9-C4-C5	-5.60	103.16	105.40
36	1	1545	A	N3-C4-C5	-5.60	122.88	126.80
36	1	1746	U	N1-C2-O2	-5.60	118.88	122.80
36	1	1885	U	N1-C2-N3	-5.60	111.54	114.90
36	1	2365	C	N3-C4-N4	5.60	121.92	118.00
36	1	2378	C	N3-C4-N4	5.60	121.92	118.00
36	1	2407	C	N3-C2-O2	-5.60	117.98	121.90
36	1	2690	G	C8-N9-C4	-5.60	104.16	106.40
36	1	3269	U	N1-C2-N3	5.60	118.26	114.90
37	3	96	U	O5'-P-OP2	-5.60	100.66	105.70
38	4	39	G	C8-N9-C4	-5.60	104.16	106.40
78	Q2	48	SER	C-N-CA	-5.60	110.55	122.30
80	6	363	G	OP2-P-O3'	5.60	117.51	105.20
80	6	557	G	OP2-P-O3'	5.60	117.52	105.20
80	6	658	C	OP2-P-O3'	5.60	117.51	105.20
80	6	1135	U	OP2-P-O3'	5.60	117.52	105.20
80	6	1424	A	C5-C6-N1	-5.60	114.90	117.70
80	6	1662	G	O5'-P-OP2	-5.60	100.66	105.70
85	5	242	C	N3-C2-O2	5.60	125.82	121.90
85	5	244	G	C4-N9-C1'	-5.60	119.22	126.50
85	5	339	C	C2-N3-C4	5.60	122.70	119.90
85	5	530	G	N3-C4-N9	5.60	129.36	126.00
85	5	742	G	OP1-P-O3'	5.60	117.51	105.20
85	5	972	A	OP2-P-O3'	5.60	117.52	105.20
85	5	1157	G	C4-C5-N7	-5.60	108.56	110.80
85	5	1160	C	C2-N1-C1'	-5.60	112.64	118.80
85	5	1424	C	C5-C4-N4	-5.60	116.28	120.20
85	5	1912	U	C4-C5-C6	5.60	123.06	119.70
85	5	2159	U	C6-N1-C2	5.60	124.36	121.00
37	7	116	C	N1-C2-N3	-5.60	115.28	119.20
1	2	577	G	C6-C5-N7	-5.60	127.04	130.40
1	2	1574	C	C5-C4-N4	5.60	124.12	120.20
85	5	947	G	C4-N9-C1'	5.60	133.78	126.50
1	2	129	U	C4-C5-C6	5.59	123.06	119.70
1	2	1584	G	N9-C4-C5	5.59	107.64	105.40
1	2	1650	A	N3-C4-N9	-5.59	122.92	127.40
36	1	1100	U	C2-N1-C1'	-5.59	110.99	117.70
36	1	2221	G	C2-N3-C4	-5.59	109.10	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2394	G	C4-C5-N7	-5.59	108.56	110.80
36	1	2631	U	C2-N1-C1'	5.59	124.41	117.70
38	4	25	G	C4-C5-N7	-5.59	108.56	110.80
38	4	93	U	C2-N3-C4	5.59	130.36	127.00
80	6	860	U	C5-C6-N1	-5.59	119.90	122.70
85	5	574	U	N1-C2-N3	-5.59	111.54	114.90
85	5	669	U	N1-C2-N3	5.59	118.26	114.90
85	5	686	G	C8-N9-C4	5.59	108.64	106.40
85	5	743	C	C2-N1-C1'	5.59	124.95	118.80
85	5	1213	G	C8-N9-C4	5.59	108.64	106.40
85	5	1613	A	C5-C6-N6	-5.59	119.22	123.70
85	5	1889	G	C6-N1-C2	-5.59	121.74	125.10
85	5	2836	C	OP2-P-O3'	5.59	117.51	105.20
85	5	3015	G	N1-C2-N3	5.59	127.26	123.90
85	5	3254	G	O5'-P-OP2	5.59	117.41	110.70
85	5	3266	G	O4'-C1'-N9	5.59	112.67	108.20
1	2	245	U	N3-C4-C5	5.59	117.96	114.60
1	2	692	C	C6-N1-C2	-5.59	118.06	120.30
1	2	961	A	C6-N1-C2	-5.59	115.24	118.60
1	2	1438	G	OP1-P-OP2	-5.59	111.21	119.60
36	1	1459	C	OP1-P-OP2	-5.59	111.21	119.60
36	1	2204	C	O5'-P-OP2	-5.59	100.67	105.70
38	4	90	U	OP1-P-OP2	-5.59	111.21	119.60
80	6	773	C	C5-C6-N1	-5.59	118.20	121.00
85	5	27	C	C6-N1-C1'	5.59	127.51	120.80
85	5	523	A	N3-C4-C5	5.59	130.72	126.80
85	5	680	G	OP1-P-OP2	5.59	127.99	119.60
85	5	992	A	N1-C6-N6	5.59	121.96	118.60
85	5	1159	A	N7-C8-N9	5.59	116.60	113.80
85	5	1549	U	N3-C2-O2	5.59	126.11	122.20
85	5	1714	A	C6-N1-C2	5.59	121.96	118.60
85	5	2117	A	C5-N7-C8	5.59	106.70	103.90
85	5	2386	A	N1-C2-N3	5.59	132.10	129.30
85	5	2435	G	C2-N3-C4	-5.59	109.10	111.90
1	2	133	U	C5-C6-N1	-5.59	119.90	122.70
1	2	296	U	N3-C4-O4	5.59	123.31	119.40
1	2	440	U	C4-C5-C6	5.59	123.06	119.70
1	2	474	A	C2-N3-C4	-5.59	107.81	110.60
1	2	1638	A	C8-N9-C4	-5.59	103.56	105.80
36	1	195	U	N3-C4-O4	-5.59	115.49	119.40
36	1	288	C	O5'-P-OP1	-5.59	100.67	105.70
36	1	315	C	N3-C4-N4	5.59	121.91	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	341	G	N1-C6-O6	5.59	123.25	119.90
36	1	498	A	C4-C5-C6	5.59	119.80	117.00
36	1	1059	G	C5-C6-N1	-5.59	108.70	111.50
36	1	1163	A	N1-C2-N3	5.59	132.10	129.30
36	1	1410	U	O4'-C1'-N1	5.59	112.67	108.20
36	1	2696	A	OP1-P-OP2	5.59	127.99	119.60
36	1	2761	G	N1-C2-N2	-5.59	111.17	116.20
36	1	3201	C	C4-C5-C6	5.59	120.20	117.40
37	3	2	G	C6-N1-C2	-5.59	121.75	125.10
38	4	105	A	OP1-P-O3'	5.59	117.50	105.20
80	6	375	U	N1-C2-O2	-5.59	118.89	122.80
80	6	846	G	C8-N9-C4	-5.59	104.16	106.40
80	6	987	G	C8-N9-C1'	5.59	134.27	127.00
80	6	1107	G	C6-N1-C2	-5.59	121.75	125.10
85	5	55	G	N3-C4-C5	5.59	131.40	128.60
85	5	150	A	OP1-P-O3'	5.59	117.50	105.20
85	5	374	A	C6-N1-C2	-5.59	115.25	118.60
85	5	2315	G	C4-C5-N7	5.59	113.04	110.80
85	5	3037	U	C4-C5-C6	5.59	123.06	119.70
85	5	3159	C	C2-N3-C4	-5.59	117.11	119.90
38	8	5	U	O5'-P-OP1	5.59	117.41	110.70
38	8	70	G	N1-C6-O6	-5.59	116.55	119.90
36	1	209	A	N1-C6-N6	5.59	121.95	118.60
36	1	220	G	OP2-P-O3'	5.59	117.50	105.20
36	1	368	G	N3-C4-C5	5.59	131.40	128.60
36	1	1949	G	C5-N7-C8	-5.59	101.51	104.30
36	1	2137	U	N3-C4-C5	5.59	117.95	114.60
36	1	2312	A	OP1-P-OP2	-5.59	111.22	119.60
36	1	2345	A	C5-C6-N1	-5.59	114.91	117.70
36	1	2397	A	N9-C4-C5	-5.59	103.56	105.80
36	1	2818	U	N3-C4-C5	5.59	117.95	114.60
36	1	3266	G	N3-C2-N2	-5.59	115.99	119.90
80	6	56	U	O5'-P-OP2	-5.59	100.67	105.70
80	6	877	G	C5-C6-N1	5.59	114.29	111.50
80	6	1137	A	C5-N7-C8	-5.59	101.11	103.90
80	6	1449	U	C5-C4-O4	5.59	129.25	125.90
85	5	412	G	N1-C2-N3	5.59	127.25	123.90
85	5	1647	A	N1-C6-N6	-5.59	115.25	118.60
85	5	1798	A	C5-C6-N6	5.59	128.17	123.70
85	5	1940	G	C8-N9-C4	-5.59	104.16	106.40
85	5	2373	A	C5-C6-N6	-5.59	119.23	123.70
85	5	2752	U	OP1-P-OP2	5.59	127.98	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	10	A	N7-C8-N9	5.59	116.59	113.80
36	1	1306	G	C4-N9-C1'	5.59	133.76	126.50
36	1	1407	A	OP1-P-OP2	-5.59	111.22	119.60
36	1	1883	A	N1-C2-N3	5.59	132.09	129.30
36	1	2989	U	OP2-P-O3'	5.59	117.49	105.20
85	5	2152	A	O5'-P-OP1	5.59	117.41	110.70
1	2	714	C	N3-C4-C5	5.59	124.14	121.90
1	2	868	G	C6-N1-C2	5.59	128.45	125.10
1	2	1056	G	N7-C8-N9	-5.59	110.31	113.10
1	2	1157	C	C6-N1-C1'	-5.59	114.10	120.80
1	2	1575	A	O4'-C1'-N9	5.59	112.67	108.20
36	1	38	U	C5-C6-N1	5.59	125.49	122.70
36	1	656	A	C6-N1-C2	-5.59	115.25	118.60
36	1	882	A	N7-C8-N9	5.59	116.59	113.80
36	1	1139	G	C5-N7-C8	5.59	107.09	104.30
36	1	1291	A	C4-C5-N7	5.59	113.49	110.70
36	1	1590	G	N1-C2-N2	-5.59	111.17	116.20
36	1	1730	G	C5-C6-O6	5.59	131.95	128.60
36	1	1943	C	N1-C2-N3	5.59	123.11	119.20
36	1	2276	G	N3-C2-N2	5.59	123.81	119.90
36	1	2959	C	C6-N1-C2	-5.59	118.06	120.30
36	1	3146	G	N7-C8-N9	-5.59	110.31	113.10
38	4	37	A	C2-N3-C4	5.59	113.39	110.60
73	O7	59	THR	C-N-CA	-5.59	110.57	122.30
80	6	114	C	C5-C4-N4	-5.59	116.29	120.20
80	6	363	G	N3-C4-C5	5.59	131.39	128.60
80	6	983	A	C8-N9-C4	-5.59	103.56	105.80
80	6	1371	A	C8-N9-C4	-5.59	103.57	105.80
85	5	944	C	C4-C5-C6	5.59	120.19	117.40
85	5	1225	A	C5-C6-N1	5.59	120.49	117.70
85	5	1547	G	O5'-P-OP1	-5.59	100.67	105.70
85	5	2737	C	N3-C2-O2	5.59	125.81	121.90
85	5	3030	G	N9-C4-C5	5.59	107.63	105.40
42	l5	230	ASP	CB-CG-OD2	5.59	123.33	118.30
1	2	1215	U	N3-C2-O2	-5.58	118.29	122.20
1	2	1308	A	C5-C6-N1	5.58	120.49	117.70
36	1	242	C	N1-C2-N3	-5.58	115.29	119.20
36	1	839	C	C5-C6-N1	5.58	123.79	121.00
36	1	1429	G	O4'-C1'-N9	-5.58	103.73	108.20
36	1	2881	C	C2-N3-C4	-5.58	117.11	119.90
38	4	128	U	N3-C4-C5	5.58	117.95	114.60
80	6	845	G	C5-C6-O6	5.58	131.95	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	894	U	C4-C5-C6	-5.58	116.35	119.70
85	5	331	G	C6-N1-C2	-5.58	121.75	125.10
85	5	713	U	N3-C4-C5	-5.58	111.25	114.60
85	5	1614	C	C5-C6-N1	-5.58	118.21	121.00
85	5	2323	G	N9-C4-C5	5.58	107.63	105.40
85	5	2412	G	C5-N7-C8	5.58	107.09	104.30
85	5	3027	A	C6-N1-C2	-5.58	115.25	118.60
85	5	3363	U	OP2-P-O3'	-5.58	92.91	105.20
1	2	368	U	C5-C4-O4	-5.58	122.55	125.90
1	2	405	C	C4-C5-C6	-5.58	114.61	117.40
1	2	1271	G	N9-C4-C5	5.58	107.63	105.40
1	2	1753	U	N3-C4-O4	5.58	123.31	119.40
36	1	55	G	C2-N3-C4	-5.58	109.11	111.90
36	1	93	C	C2-N3-C4	5.58	122.69	119.90
36	1	512	U	N1-C2-O2	-5.58	118.89	122.80
36	1	601	U	N3-C4-O4	-5.58	115.49	119.40
36	1	732	C	N3-C2-O2	-5.58	117.99	121.90
36	1	912	G	C6-N1-C2	-5.58	121.75	125.10
36	1	924	G	C4-C5-N7	5.58	113.03	110.80
36	1	1108	U	OP1-P-O3'	5.58	117.48	105.20
36	1	1514	G	C2-N3-C4	-5.58	109.11	111.90
36	1	1523	U	C2-N3-C4	5.58	130.35	127.00
36	1	1655	G	C6-C5-N7	-5.58	127.05	130.40
36	1	1771	C	OP1-P-OP2	-5.58	111.22	119.60
36	1	1816	A	C5-C6-N6	5.58	128.17	123.70
36	1	1863	G	N1-C2-N2	-5.58	111.17	116.20
36	1	1930	A	OP2-P-O3'	5.58	117.48	105.20
36	1	2110	G	C8-N9-C4	5.58	108.63	106.40
36	1	3130	A	N9-C4-C5	5.58	108.03	105.80
37	3	15	C	C2-N1-C1'	-5.58	112.66	118.80
37	3	33	U	N1-C2-N3	5.58	118.25	114.90
38	4	87	G	N7-C8-N9	-5.58	110.31	113.10
38	4	142	C	N1-C2-O2	-5.58	115.55	118.90
80	6	211	U	N3-C4-C5	5.58	117.95	114.60
80	6	392	G	C5-C6-O6	-5.58	125.25	128.60
80	6	1631	A	OP1-P-O3'	5.58	117.49	105.20
80	6	1646	C	OP1-P-O3'	5.58	117.48	105.20
80	6	1708	U	C6-N1-C2	-5.58	117.65	121.00
85	5	29	C	N3-C4-C5	-5.58	119.67	121.90
85	5	42	C	C5-C4-N4	-5.58	116.29	120.20
85	5	2622	C	P-O3'-C3'	-5.58	113.00	119.70
85	5	2759	U	N3-C4-O4	5.58	123.31	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	57	C	O5'-P-OP1	5.58	117.40	110.70
52	m6	102	LEU	CB-CG-CD1	-5.58	101.51	111.00
1	2	328	A	C5-C6-N6	-5.58	119.23	123.70
1	2	1198	C	C4-C5-C6	5.58	120.19	117.40
36	1	399	A	C8-N9-C4	-5.58	103.57	105.80
36	1	558	U	N3-C4-O4	-5.58	115.49	119.40
36	1	902	G	C5-C6-O6	-5.58	125.25	128.60
36	1	2131	A	C8-N9-C4	5.58	108.03	105.80
36	1	2328	U	N3-C4-C5	5.58	117.95	114.60
36	1	2342	U	C6-N1-C2	5.58	124.35	121.00
36	1	2391	G	C6-C5-N7	-5.58	127.05	130.40
36	1	2674	A	O5'-P-OP2	-5.58	100.68	105.70
36	1	2725	U	C2-N1-C1'	5.58	124.40	117.70
36	1	3282	U	C6-N1-C2	-5.58	117.65	121.00
37	3	14	U	N1-C2-N3	-5.58	111.55	114.90
38	4	29	U	N3-C4-O4	-5.58	115.49	119.40
80	6	616	G	N9-C4-C5	5.58	107.63	105.40
80	6	1668	G	C6-N1-C2	-5.58	121.75	125.10
80	6	1768	G	O4'-C1'-N9	-5.58	103.73	108.20
80	6	1780	G	C2-N3-C4	5.58	114.69	111.90
85	5	733	G	N1-C2-N3	-5.58	120.55	123.90
85	5	956	U	O5'-P-OP2	-5.58	100.68	105.70
85	5	1202	A	OP1-P-OP2	5.58	127.97	119.60
85	5	1312	C	OP1-P-OP2	-5.58	111.23	119.60
85	5	1476	G	C4-C5-C6	5.58	122.15	118.80
85	5	2253	G	N7-C8-N9	5.58	115.89	113.10
85	5	3363	U	N3-C4-O4	5.58	123.31	119.40
37	7	19	C	N3-C4-C5	5.58	124.13	121.90
37	7	20	A	C2-N3-C4	-5.58	107.81	110.60
51	m5	67	ARG	NE-CZ-NH1	-5.58	117.51	120.30
1	2	491	C	C5-C6-N1	5.58	123.79	121.00
1	2	1592	U	N3-C2-O2	5.58	126.11	122.20
36	1	979	U	C2-N1-C1'	5.58	124.40	117.70
36	1	1422	G	N3-C4-C5	-5.58	125.81	128.60
36	1	2540	A	C6-N1-C2	5.58	121.95	118.60
80	6	119	A	O5'-P-OP1	-5.58	100.68	105.70
85	5	1821	U	O5'-P-OP2	5.58	117.40	110.70
85	5	2645	G	C8-N9-C4	5.58	108.63	106.40
1	2	311	U	C5-C4-O4	5.58	129.25	125.90
1	2	602	U	C6-N1-C2	-5.58	117.65	121.00
36	1	107	A	OP1-P-OP2	-5.58	111.23	119.60
36	1	185	C	C5-C6-N1	-5.58	118.21	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	568	G	C5-C6-O6	5.58	131.95	128.60
36	1	844	G	N3-C4-C5	5.58	131.39	128.60
36	1	1178	G	N3-C4-N9	5.58	129.35	126.00
36	1	1284	C	O5'-P-OP2	5.58	117.39	110.70
36	1	1595	U	O5'-P-OP2	5.58	117.39	110.70
36	1	2152	A	N7-C8-N9	5.58	116.59	113.80
36	1	2966	G	C5-C6-N1	-5.58	108.71	111.50
36	1	3309	G	N1-C6-O6	5.58	123.25	119.90
80	6	54	C	OP2-P-O3'	5.58	117.47	105.20
80	6	488	G	N9-C4-C5	-5.58	103.17	105.40
80	6	1753	A	O5'-P-OP1	-5.58	100.68	105.70
85	5	50	U	N3-C4-C5	-5.58	111.25	114.60
85	5	762	U	OP1-P-OP2	-5.58	111.23	119.60
85	5	790	U	N3-C2-O2	5.58	126.11	122.20
85	5	1138	U	N1-C2-N3	5.58	118.25	114.90
85	5	1576	G	N1-C2-N3	-5.58	120.55	123.90
85	5	1925	U	N3-C2-O2	5.58	126.11	122.20
85	5	2175	U	N1-C2-O2	5.58	126.70	122.80
85	5	2205	U	C4-C5-C6	-5.58	116.35	119.70
85	5	2228	A	N1-C2-N3	5.58	132.09	129.30
85	5	2805	G	N1-C2-N3	5.58	127.25	123.90
85	5	3042	U	C2-N3-C4	-5.58	123.65	127.00
85	5	3077	A	C5-C6-N1	5.58	120.49	117.70
85	5	3116	G	C6-N1-C2	-5.58	121.75	125.10
85	5	3162	C	N3-C4-C5	-5.58	119.67	121.90
85	5	3374	U	N1-C2-O2	5.58	126.70	122.80
38	8	41	A	N1-C2-N3	5.58	132.09	129.30
38	8	62	C	O5'-P-OP2	5.58	117.39	110.70
1	2	74	U	N3-C2-O2	5.58	126.10	122.20
1	2	323	A	C8-N9-C4	-5.58	103.57	105.80
1	2	1496	G	C4-C5-C6	5.58	122.15	118.80
36	1	256	G	C6-C5-N7	-5.58	127.05	130.40
39	L2	17	THR	CA-CB-CG2	-5.58	104.59	112.40
80	6	1204	A	C8-N9-C4	-5.58	103.57	105.80
85	5	370	U	OP1-P-OP2	5.58	127.97	119.60
85	5	624	G	C4-C5-N7	5.58	113.03	110.80
85	5	924	G	N9-C4-C5	5.58	107.63	105.40
85	5	1103	A	N3-C4-N9	5.58	131.86	127.40
1	2	617	U	N3-C2-O2	-5.58	118.30	122.20
1	2	1253	G	N7-C8-N9	-5.58	110.31	113.10
36	1	896	A	C5-C6-N6	-5.58	119.24	123.70
36	1	1136	A	O5'-P-OP1	-5.58	100.68	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1308	A	C5-C6-N1	-5.58	114.91	117.70
36	1	1321	G	N1-C6-O6	5.58	123.25	119.90
36	1	2136	C	C2-N3-C4	5.58	122.69	119.90
80	6	1558	U	N3-C4-O4	5.58	123.30	119.40
85	5	268	A	C4-C5-N7	-5.58	107.91	110.70
85	5	359	U	OP1-P-OP2	-5.58	111.24	119.60
85	5	606	C	C4-C5-C6	5.58	120.19	117.40
85	5	1481	A	OP2-P-O3'	5.58	117.47	105.20
85	5	1486	G	C4-C5-N7	-5.58	108.57	110.80
85	5	2533	G	N3-C4-C5	5.58	131.39	128.60
85	5	3016	A	OP1-P-OP2	-5.58	111.24	119.60
85	5	3342	A	N3-C4-C5	-5.58	122.90	126.80
37	7	51	A	C5-C6-N1	-5.58	114.91	117.70
38	8	121	U	N1-C2-N3	5.58	118.25	114.90
1	2	1148	G	N3-C2-N2	5.57	123.80	119.90
36	1	591	G	C2-N3-C4	-5.57	109.11	111.90
36	1	1089	G	C4-C5-N7	-5.57	108.57	110.80
36	1	1449	A	C8-N9-C4	-5.57	103.57	105.80
36	1	2273	G	C5-C6-N1	-5.57	108.71	111.50
36	1	2288	G	C6-C5-N7	-5.57	127.06	130.40
36	1	2555	G	N3-C4-C5	5.57	131.39	128.60
36	1	2698	G	C6-N1-C2	-5.57	121.76	125.10
36	1	2829	U	OP1-P-O3'	-5.57	92.94	105.20
38	4	146	U	C4-C5-C6	5.57	123.04	119.70
80	6	620	A	N1-C6-N6	5.57	121.94	118.60
80	6	1634	C	C2-N1-C1'	5.57	124.93	118.80
85	5	89	A	OP1-P-OP2	-5.57	111.24	119.60
85	5	194	U	N1-C2-O2	5.57	126.70	122.80
85	5	418	A	C2-N3-C4	-5.57	107.81	110.60
85	5	555	U	O5'-P-OP2	5.57	117.39	110.70
85	5	900	G	C5-C6-O6	5.57	131.94	128.60
85	5	949	C	OP1-P-OP2	5.57	127.96	119.60
85	5	1101	G	O5'-P-OP1	5.57	117.39	110.70
85	5	1204	A	OP1-P-OP2	-5.57	111.24	119.60
85	5	1622	U	O5'-P-OP1	5.57	117.39	110.70
85	5	1752	A	C5-C6-N6	-5.57	119.24	123.70
85	5	2131	A	N9-C1'-C2'	-5.57	105.87	112.00
85	5	2161	G	C6-N1-C2	-5.57	121.76	125.10
85	5	2896	A	N3-C4-C5	5.57	130.70	126.80
85	5	3185	U	C5-C6-N1	-5.57	119.91	122.70
37	7	72	A	OP2-P-O3'	5.57	117.46	105.20
1	2	165	G	C2-N3-C4	-5.57	109.11	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	577	G	C5-N7-C8	-5.57	101.51	104.30
36	1	865	U	N1-C2-O2	-5.57	118.90	122.80
36	1	2302	G	N1-C2-N3	5.57	127.24	123.90
36	1	2836	C	N1-C2-N3	5.57	123.10	119.20
37	3	110	G	N3-C4-C5	-5.57	125.81	128.60
38	4	148	G	C2-N3-C4	-5.57	109.11	111.90
80	6	482	U	N3-C2-O2	5.57	126.10	122.20
85	5	829	U	OP1-P-O3'	5.57	117.46	105.20
85	5	3191	G	C8-N9-C4	5.57	108.63	106.40
85	5	3266	G	C5-C6-O6	5.57	131.94	128.60
85	5	3305	A	C6-N1-C2	5.57	121.94	118.60
1	2	217	A	N1-C2-N3	-5.57	126.52	129.30
1	2	325	G	C6-C5-N7	-5.57	127.06	130.40
1	2	330	G	N3-C2-N2	-5.57	116.00	119.90
1	2	975	A	C4-C5-N7	5.57	113.48	110.70
36	1	212	G	OP1-P-OP2	-5.57	111.25	119.60
36	1	325	A	C8-N9-C4	-5.57	103.57	105.80
36	1	384	A	C5-C6-N1	5.57	120.48	117.70
36	1	398	A	N7-C8-N9	-5.57	111.02	113.80
36	1	629	U	C5-C6-N1	5.57	125.48	122.70
36	1	1351	U	C5-C4-O4	-5.57	122.56	125.90
36	1	1368	U	N1-C2-O2	-5.57	118.90	122.80
36	1	2866	U	OP1-P-O3'	5.57	117.45	105.20
36	1	2973	G	OP1-P-O3'	5.57	117.45	105.20
80	6	102	U	C6-N1-C2	5.57	124.34	121.00
80	6	153	G	C8-N9-C4	5.57	108.63	106.40
80	6	241	U	O5'-P-OP1	-5.57	100.69	105.70
80	6	631	G	N1-C6-O6	5.57	123.24	119.90
85	5	153	U	C4-C5-C6	5.57	123.04	119.70
85	5	413	U	O5'-P-OP2	-5.57	100.69	105.70
85	5	676	G	N9-C4-C5	5.57	107.63	105.40
85	5	1387	G	C5-N7-C8	-5.57	101.52	104.30
85	5	1588	A	N7-C8-N9	-5.57	111.02	113.80
85	5	1744	G	C5-N7-C8	-5.57	101.52	104.30
85	5	2588	U	N3-C4-C5	-5.57	111.26	114.60
85	5	3019	U	OP1-P-O3'	-5.57	92.95	105.20
85	5	3253	G	N1-C6-O6	-5.57	116.56	119.90
38	8	78	G	N3-C2-N2	5.57	123.80	119.90
38	8	98	U	N3-C4-O4	5.57	123.30	119.40
1	2	24	U	N3-C2-O2	-5.57	118.30	122.20
1	2	349	U	C6-N1-C2	5.57	124.34	121.00
1	2	1131	C	N3-C2-O2	-5.57	118.00	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	728	G	N1-C2-N2	5.57	121.21	116.20
36	1	1215	U	N3-C4-C5	-5.57	111.26	114.60
36	1	1461	A	C2-N3-C4	-5.57	107.81	110.60
36	1	2314	U	OP1-P-O3'	5.57	117.45	105.20
85	5	1222	G	N9-C4-C5	-5.57	103.17	105.40
85	5	1225	A	N7-C8-N9	5.57	116.58	113.80
85	5	1545	A	N7-C8-N9	5.57	116.58	113.80
85	5	1697	A	N1-C6-N6	5.57	121.94	118.60
85	5	1803	C	OP2-P-O3'	5.57	117.45	105.20
1	2	495	C	N3-C2-O2	5.57	125.80	121.90
1	2	755	G	C2-N3-C4	-5.57	109.12	111.90
36	1	40	A	C4-C5-N7	-5.57	107.92	110.70
36	1	2164	A	C6-N1-C2	-5.57	115.26	118.60
36	1	2394	G	O5'-P-OP2	5.57	117.38	110.70
36	1	2814	G	N1-C2-N3	5.57	127.24	123.90
36	1	2897	A	C2-N3-C4	-5.57	107.82	110.60
36	1	2978	U	O4'-C1'-N1	5.57	112.65	108.20
36	1	3080	G	C4-C5-C6	-5.57	115.46	118.80
36	1	3141	A	O5'-P-OP2	5.57	117.38	110.70
36	1	3259	U	N1-C2-N3	5.57	118.24	114.90
80	6	398	G	C4-C5-N7	-5.57	108.57	110.80
80	6	875	G	C5-C6-O6	5.57	131.94	128.60
80	6	1125	A	N1-C2-N3	5.57	132.08	129.30
80	6	1472	C	N1-C2-N3	5.57	123.10	119.20
80	6	1567	U	C5-C4-O4	-5.57	122.56	125.90
80	6	1572	G	C5-C6-N1	-5.57	108.72	111.50
85	5	331	G	N1-C2-N2	-5.57	111.19	116.20
85	5	871	U	N1-C2-N3	5.57	118.24	114.90
85	5	1124	U	N3-C4-O4	5.57	123.30	119.40
85	5	1623	G	N1-C6-O6	-5.57	116.56	119.90
85	5	1671	C	OP1-P-OP2	-5.57	111.25	119.60
85	5	2186	U	C5-C4-O4	5.57	129.24	125.90
85	5	2802	A	OP2-P-O3'	5.57	117.45	105.20
85	5	2888	U	C6-N1-C2	-5.57	117.66	121.00
85	5	2914	G	C2-N3-C4	5.57	114.68	111.90
85	5	3133	C	OP1-P-O3'	5.57	117.45	105.20
85	5	3276	G	C6-C5-N7	5.57	133.74	130.40
85	5	3343	G	C6-C5-N7	-5.57	127.06	130.40
1	2	140	A	O5'-P-OP2	5.57	117.38	110.70
1	2	706	G	C8-N9-C4	-5.57	104.17	106.40
1	2	806	G	N1-C6-O6	-5.57	116.56	119.90
1	2	922	A	C8-N9-C4	-5.57	103.57	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1012	U	OP1-P-OP2	5.57	127.95	119.60
1	2	1101	G	N1-C6-O6	5.57	123.24	119.90
36	1	37	U	C6-N1-C2	-5.57	117.66	121.00
36	1	267	G	N3-C4-N9	-5.57	122.66	126.00
36	1	679	U	OP1-P-OP2	-5.57	111.25	119.60
36	1	1180	A	C6-N1-C2	-5.57	115.26	118.60
36	1	1190	A	C5-N7-C8	-5.57	101.12	103.90
36	1	1501	U	OP1-P-O3'	5.57	117.44	105.20
36	1	1557	A	N3-C4-C5	5.57	130.70	126.80
36	1	1748	G	C6-N1-C2	-5.57	121.76	125.10
36	1	2280	A	OP1-P-OP2	5.57	127.95	119.60
36	1	2605	G	N1-C2-N3	5.57	127.24	123.90
36	1	2706	G	C8-N9-C4	-5.57	104.17	106.40
36	1	2775	U	N1-C2-O2	-5.57	118.90	122.80
36	1	2951	G	O5'-P-OP2	5.57	117.38	110.70
36	1	3007	U	C2-N3-C4	-5.57	123.66	127.00
36	1	3242	G	N3-C4-N9	5.57	129.34	126.00
36	1	3278	C	C5-C4-N4	5.57	124.10	120.20
36	1	3295	A	N1-C2-N3	5.57	132.08	129.30
37	3	91	G	C2-N3-C4	5.57	114.68	111.90
38	4	48	A	C8-N9-C4	-5.57	103.57	105.80
38	4	124	G	N1-C2-N3	5.57	127.24	123.90
47	M0	82	ARG	NE-CZ-NH1	5.57	123.08	120.30
80	6	265	A	C4-C5-C6	5.57	119.78	117.00
80	6	284	G	C5-C6-O6	5.57	131.94	128.60
80	6	619	A	C5-C6-N6	5.57	128.15	123.70
80	6	793	A	N7-C8-N9	-5.57	111.02	113.80
80	6	864	U	C6-N1-C2	-5.57	117.66	121.00
80	6	1000	C	OP1-P-OP2	5.57	127.95	119.60
85	5	972	A	N1-C6-N6	5.57	121.94	118.60
85	5	1644	C	N3-C4-C5	-5.57	119.67	121.90
85	5	1937	U	OP1-P-O3'	5.57	117.44	105.20
85	5	2156	C	N1-C2-O2	-5.57	115.56	118.90
85	5	2649	A	C5-C6-N1	5.57	120.48	117.70
85	5	2937	G	N3-C4-N9	-5.57	122.66	126.00
85	5	3219	G	N7-C8-N9	5.57	115.88	113.10
1	2	48	G	OP2-P-O3'	5.56	117.44	105.20
1	2	169	A	N1-C2-N3	-5.56	126.52	129.30
1	2	1161	G	OP2-P-O3'	5.56	117.44	105.20
1	2	1502	U	N3-C2-O2	5.56	126.09	122.20
1	2	1665	U	C2-N3-C4	-5.56	123.66	127.00
36	1	179	C	C2-N3-C4	-5.56	117.12	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1096	U	C2-N3-C4	5.56	130.34	127.00
36	1	1139	G	N3-C4-C5	5.56	131.38	128.60
36	1	1207	G	C5-N7-C8	-5.56	101.52	104.30
36	1	1327	C	N3-C4-N4	-5.56	114.11	118.00
36	1	2586	G	N1-C2-N3	-5.56	120.56	123.90
36	1	3223	A	N1-C2-N3	5.56	132.08	129.30
37	3	103	A	N7-C8-N9	-5.56	111.02	113.80
85	5	441	U	C4-C5-C6	5.56	123.04	119.70
85	5	2560	C	C4-C5-C6	-5.56	114.62	117.40
85	5	2725	U	OP1-P-O3'	5.56	117.44	105.20
85	5	2858	U	C2-N1-C1'	5.56	124.38	117.70
1	2	246	G	O5'-P-OP1	5.56	117.38	110.70
1	2	901	U	O4'-C1'-N1	5.56	112.65	108.20
1	2	922	A	N7-C8-N9	5.56	116.58	113.80
36	1	32	U	N1-C2-O2	-5.56	118.91	122.80
36	1	1023	C	OP1-P-OP2	-5.56	111.26	119.60
36	1	1304	A	OP2-P-O3'	5.56	117.44	105.20
36	1	1515	A	C6-C5-N7	-5.56	128.41	132.30
36	1	1814	A	C6-N1-C2	5.56	121.94	118.60
36	1	2187	G	N3-C4-C5	5.56	131.38	128.60
36	1	2973	G	N1-C2-N3	5.56	127.24	123.90
36	1	3253	G	N3-C2-N2	5.56	123.79	119.90
80	6	453	U	C2-N3-C4	5.56	130.34	127.00
80	6	754	A	C5-C6-N6	-5.56	119.25	123.70
80	6	1139	A	C4-C5-N7	-5.56	107.92	110.70
80	6	1424	A	C6-N1-C2	5.56	121.94	118.60
80	6	1754	A	O5'-P-OP2	5.56	117.38	110.70
85	5	996	A	N1-C2-N3	5.56	132.08	129.30
85	5	1409	G	C5-C6-O6	-5.56	125.26	128.60
85	5	2758	A	C5-N7-C8	-5.56	101.12	103.90
85	5	3273	A	C5-C6-N1	5.56	120.48	117.70
85	5	3341	U	C4-C5-C6	5.56	123.04	119.70
37	7	106	U	N1-C2-O2	-5.56	118.91	122.80
1	2	1773	A	C5-C6-N6	5.56	128.15	123.70
80	6	560	U	OP1-P-O3'	-5.56	92.97	105.20
85	5	575	G	C5-C6-N1	-5.56	108.72	111.50
85	5	973	A	OP1-P-O3'	-5.56	92.97	105.20
85	5	1775	G	C2-N3-C4	5.56	114.68	111.90
85	5	2288	G	N3-C4-C5	-5.56	125.82	128.60
85	5	2323	G	C5-N7-C8	-5.56	101.52	104.30
85	5	2371	G	P-O3'-C3'	-5.56	113.03	119.70
1	2	786	A	C6-N1-C2	-5.56	115.26	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1481	G	C2-N3-C4	5.56	114.68	111.90
36	1	224	C	C6-N1-C1'	5.56	127.47	120.80
36	1	439	C	C4-C5-C6	-5.56	114.62	117.40
36	1	752	C	C2-N1-C1'	-5.56	112.68	118.80
36	1	817	A	O5'-P-OP2	-5.56	100.70	105.70
36	1	1661	G	N1-C6-O6	5.56	123.23	119.90
36	1	1716	U	OP1-P-O3'	5.56	117.43	105.20
36	1	2387	A	C5-N7-C8	-5.56	101.12	103.90
36	1	2403	G	O5'-P-OP2	5.56	117.37	110.70
36	1	2719	U	OP1-P-OP2	5.56	127.94	119.60
80	6	1121	C	C4-C5-C6	5.56	120.18	117.40
80	6	1214	U	C6-N1-C2	-5.56	117.67	121.00
80	6	1644	C	C2-N3-C4	-5.56	117.12	119.90
80	6	1651	A	C2-N3-C4	-5.56	107.82	110.60
85	5	24	G	C5-C6-O6	5.56	131.94	128.60
85	5	204	A	C2-N3-C4	5.56	113.38	110.60
85	5	595	G	N7-C8-N9	5.56	115.88	113.10
85	5	795	G	C4-C5-N7	5.56	113.02	110.80
85	5	861	C	N3-C4-N4	5.56	121.89	118.00
85	5	921	A	N1-C2-N3	5.56	132.08	129.30
85	5	1143	A	OP1-P-OP2	5.56	127.94	119.60
85	5	1345	G	N1-C2-N2	-5.56	111.20	116.20
85	5	3060	C	OP2-P-O3'	5.56	117.43	105.20
54	m8	57	ILE	CG1-CB-CG2	-5.56	99.17	111.40
1	2	802	G	C8-N9-C4	5.56	108.62	106.40
1	2	956	A	C6-C5-N7	-5.56	128.41	132.30
1	2	996	A	N1-C2-N3	-5.56	126.52	129.30
1	2	1668	G	C4-C5-N7	-5.56	108.58	110.80
36	1	9	U	N1-C2-O2	-5.56	118.91	122.80
36	1	282	G	C4-C5-N7	-5.56	108.58	110.80
36	1	1077	U	C6-N1-C2	5.56	124.33	121.00
36	1	1481	A	O4'-C1'-N9	5.56	112.65	108.20
36	1	1887	A	C5-N7-C8	5.56	106.68	103.90
36	1	2285	C	N1-C2-O2	5.56	122.23	118.90
36	1	2556	C	C5-C4-N4	5.56	124.09	120.20
36	1	2691	A	C5-N7-C8	5.56	106.68	103.90
36	1	2726	C	O4'-C1'-N1	5.56	112.64	108.20
36	1	3000	A	N9-C4-C5	-5.56	103.58	105.80
36	1	3170	A	C4-C5-C6	5.56	119.78	117.00
36	1	3209	A	O5'-P-OP1	-5.56	100.70	105.70
37	3	19	C	O5'-P-OP1	5.56	117.37	110.70
64	N8	69	TRP	C-N-CA	-5.56	107.81	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	188	A	C6-N1-C2	5.56	121.93	118.60
85	5	57	A	OP1-P-OP2	-5.56	111.26	119.60
85	5	965	A	C6-N1-C2	-5.56	115.27	118.60
85	5	1011	A	C4-C5-C6	5.56	119.78	117.00
85	5	1114	U	N1-C2-O2	-5.56	118.91	122.80
85	5	1674	G	N7-C8-N9	5.56	115.88	113.10
85	5	1747	G	N9-C4-C5	5.56	107.62	105.40
85	5	2226	U	N3-C2-O2	-5.56	118.31	122.20
85	5	2640	A	C5-C6-N1	5.56	120.48	117.70
85	5	2917	G	C5-C6-N1	5.56	114.28	111.50
85	5	3154	C	C5-C6-N1	5.56	123.78	121.00
85	5	3210	A	C4-C5-C6	-5.56	114.22	117.00
85	5	3327	G	C6-C5-N7	-5.56	127.06	130.40
38	8	113	U	C5-C6-N1	5.56	125.48	122.70
38	8	157	U	N3-C2-O2	-5.56	118.31	122.20
51	m5	83	LYS	CD-CE-NZ	5.56	124.48	111.70
1	2	1807	C	N3-C2-O2	-5.56	118.01	121.90
36	1	142	C	OP2-P-O3'	5.56	117.42	105.20
36	1	632	G	N3-C4-C5	5.56	131.38	128.60
36	1	843	A	N9-C4-C5	-5.56	103.58	105.80
36	1	2506	U	C5-C6-N1	5.56	125.48	122.70
51	M5	114	ARG	NE-CZ-NH1	-5.56	117.52	120.30
80	6	465	G	OP2-P-O3'	5.56	117.42	105.20
80	6	628	G	C5-C6-O6	5.56	131.93	128.60
80	6	1597	A	C5-C6-N6	5.56	128.15	123.70
85	5	388	G	N1-C6-O6	5.56	123.23	119.90
85	5	1599	G	OP1-P-OP2	-5.56	111.27	119.60
85	5	1845	G	N1-C2-N2	-5.56	111.20	116.20
1	2	297	U	C2-N3-C4	-5.55	123.67	127.00
1	2	821	G	C6-N1-C2	5.55	128.43	125.10
1	2	1076	A	C5-N7-C8	-5.55	101.12	103.90
1	2	1271	G	OP1-P-OP2	-5.55	111.27	119.60
36	1	427	C	N3-C4-N4	5.55	121.89	118.00
36	1	546	C	N1-C2-O2	5.55	122.23	118.90
36	1	1207	G	OP2-P-O3'	5.55	117.42	105.20
36	1	1936	A	N1-C2-N3	5.55	132.08	129.30
36	1	2801	A	OP1-P-O3'	5.55	117.42	105.20
36	1	3333	G	O5'-P-OP2	-5.55	100.70	105.70
37	3	10	C	C5-C4-N4	-5.55	116.31	120.20
80	6	127	G	N3-C4-N9	-5.55	122.67	126.00
80	6	195	G	C2-N3-C4	5.55	114.68	111.90
80	6	271	A	C5-C6-N1	5.55	120.48	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	457	G	N3-C2-N2	5.55	123.79	119.90
80	6	521	A	C5-N7-C8	5.55	106.68	103.90
85	5	138	U	N3-C2-O2	5.55	126.09	122.20
85	5	903	U	C5-C6-N1	-5.55	119.92	122.70
85	5	1085	A	O4'-C1'-N9	-5.55	103.76	108.20
85	5	1471	U	N1-C2-N3	5.55	118.23	114.90
85	5	2133	U	C2-N1-C1'	-5.55	111.03	117.70
85	5	2301	U	N3-C4-O4	5.55	123.29	119.40
85	5	3021	A	C5-C6-N1	-5.55	114.92	117.70
37	7	109	G	OP2-P-O3'	5.55	117.42	105.20
38	8	99	C	OP1-P-OP2	5.55	127.93	119.60
53	m7	56	ARG	NE-CZ-NH2	5.55	123.08	120.30
1	2	1137	G	C2-N3-C4	-5.55	109.12	111.90
36	1	41	G	C5-N7-C8	-5.55	101.52	104.30
36	1	386	A	C4-C5-N7	5.55	113.48	110.70
37	3	15	C	N3-C2-O2	5.55	125.79	121.90
80	6	109	G	N1-C2-N2	-5.55	111.20	116.20
80	6	1747	G	N7-C8-N9	-5.55	110.32	113.10
85	5	518	G	C2-N3-C4	-5.55	109.12	111.90
85	5	2221	G	C5-C6-O6	-5.55	125.27	128.60
85	5	3206	C	N3-C4-N4	-5.55	114.11	118.00
1	2	298	C	C2-N3-C4	-5.55	117.12	119.90
36	1	343	U	OP1-P-OP2	5.55	127.93	119.60
36	1	864	G	C8-N9-C4	5.55	108.62	106.40
36	1	1471	U	C5-C4-O4	-5.55	122.57	125.90
36	1	1838	G	OP1-P-O3'	5.55	117.41	105.20
36	1	2875	U	OP2-P-O3'	5.55	117.41	105.20
37	3	50	U	N3-C4-O4	5.55	123.29	119.40
37	3	78	U	C4-C5-C6	-5.55	116.37	119.70
80	6	1335	U	N1-C2-N3	5.55	118.23	114.90
80	6	1442	U	C5-C4-O4	5.55	129.23	125.90
80	6	1489	U	C5-C4-O4	-5.55	122.57	125.90
26	d4	121	THR	C-N-CA	-5.55	110.64	122.30
85	5	73	C	OP1-P-OP2	5.55	127.93	119.60
85	5	203	G	C6-N1-C2	-5.55	121.77	125.10
85	5	784	A	C5-C6-N6	5.55	128.14	123.70
85	5	1239	C	N1-C2-N3	-5.55	115.31	119.20
85	5	1376	C	C2-N3-C4	5.55	122.68	119.90
85	5	2298	U	N3-C2-O2	-5.55	118.31	122.20
85	5	2660	G	C8-N9-C4	5.55	108.62	106.40
85	5	2681	U	C4-C5-C6	5.55	123.03	119.70
85	5	2862	U	O5'-P-OP1	-5.55	100.70	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3281	U	OP1-P-OP2	5.55	127.93	119.60
85	5	3363	U	C2-N3-C4	-5.55	123.67	127.00
64	n8	46	ASP	OD1-CG-OD2	-5.55	112.75	123.30
1	2	1113	G	C2-N3-C4	-5.55	109.12	111.90
1	2	1265	U	N3-C4-C5	5.55	117.93	114.60
1	2	1665	U	C6-N1-C2	5.55	124.33	121.00
1	2	1720	G	N7-C8-N9	5.55	115.88	113.10
36	1	518	G	N3-C4-C5	5.55	131.38	128.60
36	1	850	U	O5'-P-OP2	5.55	117.36	110.70
36	1	955	U	C5-C6-N1	-5.55	119.93	122.70
36	1	2278	C	OP1-P-OP2	5.55	127.92	119.60
36	1	2707	C	C2-N3-C4	-5.55	117.12	119.90
36	1	2949	U	O5'-P-OP2	-5.55	100.70	105.70
36	1	3070	A	C6-N1-C2	-5.55	115.27	118.60
36	1	3275	U	N3-C4-C5	-5.55	111.27	114.60
73	O7	56	ARG	NE-CZ-NH1	-5.55	117.53	120.30
80	6	195	G	C5-C6-N1	5.55	114.28	111.50
80	6	571	G	N3-C2-N2	-5.55	116.02	119.90
80	6	684	A	N1-C2-N3	-5.55	126.53	129.30
80	6	986	G	C5-C6-O6	5.55	131.93	128.60
80	6	1029	U	N3-C2-O2	-5.55	118.31	122.20
80	6	1358	G	C5-N7-C8	5.55	107.08	104.30
80	6	1781	A	N1-C2-N3	5.55	132.07	129.30
85	5	283	G	C6-N1-C2	-5.55	121.77	125.10
85	5	355	A	C6-C5-N7	-5.55	128.42	132.30
85	5	590	G	C6-C5-N7	-5.55	127.07	130.40
85	5	721	G	N7-C8-N9	5.55	115.87	113.10
85	5	1014	U	C5-C4-O4	-5.55	122.57	125.90
85	5	1222	G	P-O3'-C3'	5.55	126.36	119.70
85	5	2100	A	C6-N1-C2	5.55	121.93	118.60
85	5	2436	U	N3-C2-O2	5.55	126.08	122.20
85	5	2818	U	N3-C4-O4	5.55	123.28	119.40
85	5	2892	A	C2-N3-C4	-5.55	107.83	110.60
37	7	51	A	C5-N7-C8	-5.55	101.13	103.90
36	1	693	A	C8-N9-C4	-5.55	103.58	105.80
36	1	1144	U	C5-C4-O4	-5.55	122.57	125.90
36	1	1201	C	C4-C5-C6	-5.55	114.63	117.40
36	1	1472	U	C2-N3-C4	-5.55	123.67	127.00
36	1	2979	U	OP2-P-O3'	5.55	117.41	105.20
80	6	350	U	N1-C2-O2	-5.55	118.92	122.80
80	6	1097	U	C5-C6-N1	5.55	125.47	122.70
85	5	1011	A	C6-N1-C2	-5.55	115.27	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1191	U	C2-N1-C1'	-5.55	111.04	117.70
85	5	1883	A	C2-N3-C4	-5.55	107.83	110.60
85	5	3119	U	N3-C4-O4	5.55	123.28	119.40
85	5	3136	G	C5-N7-C8	-5.55	101.53	104.30
1	2	80	A	C8-N9-C4	-5.55	103.58	105.80
1	2	111	U	N1-C2-N3	5.55	118.23	114.90
1	2	453	U	OP2-P-O3'	5.55	117.40	105.20
1	2	1764	A	C4-C5-C6	5.55	119.77	117.00
36	1	229	G	C5-N7-C8	-5.55	101.53	104.30
36	1	328	U	C5-C4-O4	5.55	129.23	125.90
36	1	333	G	N3-C2-N2	-5.55	116.02	119.90
36	1	550	A	C5-C6-N1	-5.55	114.93	117.70
36	1	1110	U	N3-C2-O2	5.55	126.08	122.20
36	1	1454	A	O5'-P-OP1	-5.55	100.71	105.70
36	1	1629	U	N3-C2-O2	5.55	126.08	122.20
36	1	2108	C	N3-C2-O2	-5.55	118.02	121.90
36	1	2906	C	OP2-P-O3'	5.55	117.40	105.20
60	N4	23	ARG	NE-CZ-NH1	5.55	123.07	120.30
80	6	809	A	N1-C6-N6	5.55	121.93	118.60
85	5	185	C	C6-N1-C2	5.55	122.52	120.30
85	5	312	C	N3-C4-C5	-5.55	119.68	121.90
85	5	592	A	N3-C4-C5	5.55	130.68	126.80
85	5	638	C	N1-C2-N3	5.55	123.08	119.20
85	5	849	C	C5-C6-N1	-5.55	118.23	121.00
85	5	1313	G	N1-C2-N2	5.55	121.19	116.20
85	5	1407	A	N9-C4-C5	-5.55	103.58	105.80
85	5	2134	G	N7-C8-N9	-5.55	110.33	113.10
85	5	2531	C	C2-N1-C1'	5.55	124.90	118.80
85	5	2688	U	C6-N1-C2	5.55	124.33	121.00
85	5	2785	A	C8-N9-C4	5.55	108.02	105.80
85	5	2936	A	N3-C4-C5	-5.55	122.92	126.80
85	5	2966	G	C6-N1-C2	5.55	128.43	125.10
85	5	3278	C	N3-C4-N4	5.55	121.88	118.00
85	5	3295	A	N9-C4-C5	-5.55	103.58	105.80
37	7	100	C	OP1-P-O3'	-5.55	93.00	105.20
1	2	1483	C	OP1-P-O3'	5.54	117.40	105.20
36	1	548	G	C5-N7-C8	-5.54	101.53	104.30
36	1	791	A	C5-C6-N1	5.54	120.47	117.70
36	1	1940	G	C8-N9-C4	5.54	108.62	106.40
36	1	3214	U	C4-C5-C6	5.54	123.03	119.70
80	6	1735	U	C4-C5-C6	5.54	123.03	119.70
85	5	3234	A	C6-C5-N7	5.54	136.18	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	440	U	C2-N3-C4	-5.54	123.67	127.00
1	2	848	A	N1-C6-N6	5.54	121.93	118.60
1	2	1010	A	C5-C6-N1	-5.54	114.93	117.70
36	1	25	U	OP1-P-O3'	5.54	117.39	105.20
36	1	44	U	N3-C4-C5	5.54	117.93	114.60
36	1	1137	C	C6-N1-C1'	-5.54	114.15	120.80
36	1	1189	C	C6-N1-C2	5.54	122.52	120.30
36	1	1226	G	N3-C4-N9	-5.54	122.67	126.00
36	1	1282	G	C8-N9-C4	-5.54	104.18	106.40
36	1	1552	G	N3-C4-C5	-5.54	125.83	128.60
36	1	1755	C	C5-C4-N4	-5.54	116.32	120.20
36	1	2823	G	C5-C6-O6	5.54	131.93	128.60
36	1	2878	G	C6-C5-N7	-5.54	127.07	130.40
36	1	3163	A	N7-C8-N9	-5.54	111.03	113.80
38	4	118	C	OP1-P-OP2	-5.54	111.29	119.60
80	6	170	U	C5-C6-N1	-5.54	119.93	122.70
80	6	223	U	C5-C6-N1	5.54	125.47	122.70
80	6	371	G	C4-N9-C1'	5.54	133.71	126.50
80	6	426	G	N3-C4-C5	-5.54	125.83	128.60
80	6	776	G	C2-N3-C4	-5.54	109.13	111.90
80	6	1519	U	N3-C4-C5	5.54	117.93	114.60
80	6	1718	G	N1-C2-N3	5.54	127.23	123.90
85	5	185	C	OP1-P-O3'	5.54	117.40	105.20
85	5	616	G	C8-N9-C4	5.54	108.62	106.40
85	5	780	A	C5-C6-N6	5.54	128.14	123.70
85	5	825	U	N3-C4-O4	-5.54	115.52	119.40
85	5	858	A	O5'-P-OP1	5.54	117.35	110.70
85	5	1003	A	C5-C6-N1	-5.54	114.93	117.70
85	5	1035	G	C2-N3-C4	5.54	114.67	111.90
85	5	1329	U	N3-C2-O2	-5.54	118.32	122.20
85	5	1417	G	O5'-P-OP2	5.54	117.35	110.70
85	5	1942	U	N3-C4-O4	5.54	123.28	119.40
85	5	2572	C	C2-N1-C1'	5.54	124.90	118.80
85	5	2743	A	C8-N9-C4	5.54	108.02	105.80
37	7	27	A	C5-N7-C8	-5.54	101.13	103.90
37	7	89	G	C8-N9-C4	5.54	108.62	106.40
1	2	57	G	C5-C6-O6	-5.54	125.28	128.60
1	2	744	G	C5-N7-C8	5.54	107.07	104.30
1	2	1569	A	C8-N9-C4	5.54	108.02	105.80
36	1	217	U	C5-C6-N1	-5.54	119.93	122.70
36	1	264	G	C5-C6-N1	-5.54	108.73	111.50
36	1	547	G	N9-C4-C5	-5.54	103.18	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	727	G	C4-C5-C6	5.54	122.12	118.80
36	1	966	U	N3-C4-C5	-5.54	111.28	114.60
36	1	992	A	C6-N1-C2	-5.54	115.28	118.60
36	1	1027	A	N1-C6-N6	5.54	121.92	118.60
36	1	2151	C	N1-C2-N3	5.54	123.08	119.20
36	1	2216	G	C6-C5-N7	-5.54	127.08	130.40
36	1	2915	U	C5-C4-O4	-5.54	122.58	125.90
36	1	3103	A	N3-C4-N9	-5.54	122.97	127.40
38	4	124	G	C6-N1-C2	-5.54	121.78	125.10
80	6	41	A	C2-N3-C4	5.54	113.37	110.60
80	6	100	A	N1-C2-N3	5.54	132.07	129.30
80	6	315	A	N1-C2-N3	-5.54	126.53	129.30
80	6	615	A	C5-C6-N6	5.54	128.13	123.70
80	6	1400	A	N1-C2-N3	-5.54	126.53	129.30
85	5	409	A	C4-C5-C6	-5.54	114.23	117.00
85	5	540	U	C5-C6-N1	5.54	125.47	122.70
85	5	1340	G	C6-N1-C2	-5.54	121.78	125.10
85	5	1376	C	C2-N1-C1'	5.54	124.89	118.80
85	5	1384	U	N3-C4-O4	5.54	123.28	119.40
85	5	2276	G	C5-N7-C8	-5.54	101.53	104.30
85	5	2285	C	OP2-P-O3'	5.54	117.39	105.20
85	5	2306	C	C6-N1-C2	-5.54	118.08	120.30
85	5	2815	G	N7-C8-N9	5.54	115.87	113.10
85	5	2922	G	O4'-C1'-N9	-5.54	103.77	108.20
85	5	3315	G	C4-C5-C6	5.54	122.12	118.80
85	5	3379	C	O5'-P-OP1	-5.54	100.71	105.70
37	7	8	G	N1-C6-O6	-5.54	116.58	119.90
38	8	44	A	OP1-P-O3'	5.54	117.39	105.20
1	2	522	U	N3-C4-O4	-5.54	115.52	119.40
1	2	1637	G	N7-C8-N9	5.54	115.87	113.10
36	1	1506	A	N7-C8-N9	5.54	116.57	113.80
36	1	1702	U	N3-C4-C5	-5.54	111.28	114.60
80	6	1792	G	N9-C4-C5	5.54	107.62	105.40
85	5	1255	C	OP1-P-OP2	-5.54	111.29	119.60
85	5	1921	A	C8-N9-C4	5.54	108.02	105.80
1	2	320	U	C5-C4-O4	-5.54	122.58	125.90
1	2	350	U	OP1-P-OP2	-5.54	111.29	119.60
1	2	827	A	N9-C4-C5	-5.54	103.58	105.80
1	2	1501	C	N1-C2-O2	-5.54	115.58	118.90
1	2	1574	C	C4-C5-C6	5.54	120.17	117.40
1	2	1665	U	N3-C2-O2	-5.54	118.32	122.20
36	1	590	G	C5-C6-N1	5.54	114.27	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	868	C	C6-N1-C2	5.54	122.52	120.30
36	1	1101	G	OP2-P-O3'	5.54	117.39	105.20
36	1	1204	A	O5'-P-OP1	-5.54	100.72	105.70
36	1	1542	G	C8-N9-C4	-5.54	104.18	106.40
36	1	1877	U	C4-C5-C6	5.54	123.02	119.70
36	1	2144	A	N3-C4-C5	-5.54	122.92	126.80
36	1	2221	G	OP1-P-OP2	5.54	127.91	119.60
36	1	2793	G	N1-C2-N3	5.54	127.22	123.90
36	1	3069	G	N3-C4-C5	-5.54	125.83	128.60
36	1	3244	A	O5'-P-OP2	-5.54	100.72	105.70
36	1	3303	G	C6-N1-C2	5.54	128.42	125.10
36	1	3372	A	N1-C2-N3	5.54	132.07	129.30
38	4	91	C	N3-C2-O2	-5.54	118.02	121.90
72	O6	62	ARG	NE-CZ-NH2	-5.54	117.53	120.30
80	6	337	G	N3-C2-N2	5.54	123.78	119.90
80	6	794	U	C5-C6-N1	5.54	125.47	122.70
85	5	704	U	OP1-P-OP2	5.54	127.91	119.60
85	5	925	A	C4-C5-N7	5.54	113.47	110.70
85	5	1075	A	C5-N7-C8	5.54	106.67	103.90
85	5	1303	A	N9-C4-C5	-5.54	103.58	105.80
85	5	1687	U	N3-C4-O4	5.54	123.28	119.40
85	5	1882	G	N1-C2-N2	-5.54	111.22	116.20
85	5	2188	A	N3-C4-C5	5.54	130.68	126.80
85	5	2195	C	C4-C5-C6	5.54	120.17	117.40
85	5	2228	A	N3-C4-C5	-5.54	122.92	126.80
85	5	2413	A	C6-C5-N7	-5.54	128.42	132.30
85	5	2636	A	OP1-P-O3'	5.54	117.39	105.20
85	5	2927	C	O5'-P-OP1	5.54	117.35	110.70
85	5	3293	U	N1-C2-N3	-5.54	111.58	114.90
37	7	91	G	N1-C6-O6	-5.54	116.58	119.90
38	8	111	A	P-O3'-C3'	5.54	126.34	119.70
46	l9	31	ARG	NE-CZ-NH1	-5.54	117.53	120.30
55	m9	53	LYS	CD-CE-NZ	5.54	124.44	111.70
67	o1	28	ARG	NE-CZ-NH2	-5.54	117.53	120.30
1	2	1019	A	N9-C4-C5	5.54	108.02	105.80
1	2	1081	U	C6-N1-C2	-5.54	117.68	121.00
36	1	183	G	C6-N1-C2	-5.54	121.78	125.10
36	1	1077	U	N3-C4-O4	-5.54	115.52	119.40
36	1	2311	G	C4-C5-C6	-5.54	115.48	118.80
36	1	2843	U	N3-C4-O4	-5.54	115.52	119.40
36	1	3091	A	C5-C6-N6	5.54	128.13	123.70
38	4	94	C	N3-C4-N4	-5.54	114.12	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	139	C	C6-N1-C2	-5.54	118.08	120.30
80	6	412	A	N1-C6-N6	-5.54	115.28	118.60
85	5	15	C	O5'-P-OP1	5.54	117.34	110.70
85	5	652	G	OP1-P-O3'	5.54	117.38	105.20
85	5	2272	G	C8-N9-C4	-5.54	104.19	106.40
85	5	2796	G	N1-C6-O6	-5.54	116.58	119.90
1	2	4	C	C4-C5-C6	-5.54	114.63	117.40
1	2	136	C	N3-C4-C5	5.54	124.11	121.90
1	2	193	U	N3-C4-O4	-5.54	115.53	119.40
1	2	539	G	N9-C4-C5	-5.54	103.19	105.40
1	2	577	G	C5-C6-N1	-5.54	108.73	111.50
36	1	432	G	C4-C5-C6	5.54	122.12	118.80
36	1	500	C	C6-N1-C2	-5.54	118.09	120.30
36	1	547	G	N3-C2-N2	-5.54	116.03	119.90
36	1	1428	A	C6-C5-N7	-5.54	128.43	132.30
36	1	2118	C	N3-C2-O2	-5.54	118.03	121.90
36	1	3055	U	P-O3'-C3'	-5.54	113.06	119.70
36	1	3205	G	N1-C2-N2	-5.54	111.22	116.20
38	4	47	C	C2-N1-C1'	5.54	124.89	118.80
80	6	115	G	N1-C6-O6	-5.54	116.58	119.90
80	6	298	C	C4-C5-C6	-5.54	114.63	117.40
80	6	1539	G	N7-C8-N9	5.54	115.87	113.10
80	6	1576	A	O5'-P-OP2	-5.54	100.72	105.70
85	5	763	G	C6-C5-N7	-5.54	127.08	130.40
85	5	816	A	C5-C6-N6	5.54	128.13	123.70
85	5	1106	G	N7-C8-N9	5.54	115.87	113.10
85	5	1121	U	OP1-P-OP2	5.54	127.90	119.60
85	5	2642	A	C4-C5-N7	5.54	113.47	110.70
85	5	2691	A	N7-C8-N9	5.54	116.57	113.80
48	m1	12	LEU	CA-CB-CG	5.54	128.03	115.30
36	1	611	A	C5-C6-N6	5.53	128.13	123.70
36	1	1493	G	N3-C2-N2	-5.53	116.03	119.90
36	1	1818	U	OP1-P-OP2	5.53	127.90	119.60
36	1	2240	G	C5-C6-N1	5.53	114.27	111.50
36	1	2800	G	O5'-P-OP2	-5.53	100.72	105.70
38	4	1	A	N7-C8-N9	5.53	116.57	113.80
68	O2	47	ARG	NE-CZ-NH2	5.53	123.07	120.30
80	6	109	G	C5-C6-N1	-5.53	108.73	111.50
80	6	130	C	O5'-P-OP1	-5.53	100.72	105.70
80	6	326	G	O5'-P-OP2	-5.53	100.72	105.70
80	6	691	C	N3-C4-C5	5.53	124.11	121.90
80	6	935	U	N1-C2-O2	-5.53	118.93	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1056	U	O5'-P-OP2	-5.53	100.72	105.70
80	6	1226	A	C5-C6-N1	5.53	120.47	117.70
80	6	1513	G	C5-N7-C8	5.53	107.07	104.30
80	6	1576	A	N9-C4-C5	-5.53	103.59	105.80
85	5	354	U	N3-C4-C5	-5.53	111.28	114.60
85	5	491	C	C6-N1-C2	5.53	122.51	120.30
85	5	701	G	N3-C4-N9	5.53	129.32	126.00
85	5	755	A	OP1-P-OP2	5.53	127.90	119.60
85	5	925	A	C5-N7-C8	-5.53	101.13	103.90
85	5	934	G	O5'-P-OP2	-5.53	100.72	105.70
85	5	1699	A	OP1-P-OP2	-5.53	111.30	119.60
85	5	2847	A	C5-C6-N1	-5.53	114.93	117.70
37	7	78	U	N3-C4-C5	-5.53	111.28	114.60
37	7	110	G	N1-C6-O6	5.53	123.22	119.90
36	1	161	G	N3-C2-N2	5.53	123.77	119.90
36	1	175	C	N1-C2-O2	-5.53	115.58	118.90
36	1	647	A	OP1-P-O3'	5.53	117.37	105.20
36	1	2962	U	N1-C2-O2	-5.53	118.93	122.80
80	6	1112	G	C4-C5-N7	-5.53	108.59	110.80
80	6	1730	A	C5-N7-C8	-5.53	101.13	103.90
85	5	1135	A	C5-C6-N6	5.53	128.13	123.70
85	5	1671	C	N3-C4-C5	5.53	124.11	121.90
85	5	2429	G	OP2-P-O3'	5.53	117.37	105.20
85	5	2676	A	N7-C8-N9	5.53	116.57	113.80
85	5	2879	C	C5-C6-N1	5.53	123.77	121.00
85	5	3317	U	N1-C2-N3	5.53	118.22	114.90
1	2	116	U	N3-C2-O2	-5.53	118.33	122.20
1	2	278	U	N1-C2-O2	-5.53	118.93	122.80
1	2	328	A	N9-C4-C5	-5.53	103.59	105.80
1	2	392	G	N1-C2-N3	5.53	127.22	123.90
1	2	402	C	O5'-P-OP2	5.53	117.34	110.70
1	2	1731	G	C4-C5-N7	-5.53	108.59	110.80
36	1	604	G	C4-C5-C6	5.53	122.12	118.80
36	1	883	A	C5-N7-C8	-5.53	101.14	103.90
36	1	1157	G	O5'-P-OP1	5.53	117.34	110.70
36	1	1399	A	N7-C8-N9	5.53	116.57	113.80
36	1	1654	A	N3-C4-N9	5.53	131.82	127.40
36	1	2357	A	C2-N3-C4	5.53	113.36	110.60
36	1	2653	C	N3-C2-O2	-5.53	118.03	121.90
36	1	3168	A	N1-C2-N3	5.53	132.07	129.30
80	6	720	G	C2-N3-C4	5.53	114.67	111.90
80	6	1098	U	N1-C2-O2	5.53	126.67	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	5	G	C5-C6-O6	5.53	131.92	128.60
85	5	245	U	C4-C5-C6	5.53	123.02	119.70
85	5	335	G	C5-C6-N1	5.53	114.27	111.50
85	5	424	G	OP1-P-OP2	-5.53	111.30	119.60
85	5	758	C	C6-N1-C2	-5.53	118.09	120.30
85	5	798	G	OP1-P-OP2	-5.53	111.30	119.60
85	5	894	G	C2-N3-C4	-5.53	109.14	111.90
85	5	924	G	O5'-P-OP2	5.53	117.34	110.70
85	5	968	G	C5-C6-N1	5.53	114.27	111.50
85	5	993	G	N1-C2-N3	5.53	127.22	123.90
85	5	1307	G	C6-N1-C2	-5.53	121.78	125.10
85	5	1470	U	C2-N1-C1'	5.53	124.34	117.70
85	5	1519	G	O5'-P-OP1	5.53	117.34	110.70
85	5	2856	G	N9-C4-C5	5.53	107.61	105.40
85	5	3395	G	C5-C6-N1	-5.53	108.73	111.50
49	m3	36	ARG	NE-CZ-NH1	-5.53	117.53	120.30
1	2	749	U	C6-N1-C2	-5.53	117.68	121.00
1	2	965	U	N1-C2-N3	5.53	118.22	114.90
36	1	1849	C	N3-C4-C5	-5.53	119.69	121.90
36	1	1851	G	N3-C4-N9	-5.53	122.68	126.00
36	1	1886	A	C4-C5-N7	-5.53	107.94	110.70
36	1	1942	U	N1-C2-O2	-5.53	118.93	122.80
36	1	2292	U	O5'-P-OP1	-5.53	100.72	105.70
36	1	2569	A	C6-C5-N7	5.53	136.17	132.30
36	1	3110	C	OP1-P-O3'	-5.53	93.04	105.20
37	3	32	U	OP1-P-OP2	-5.53	111.31	119.60
80	6	53	G	C4-C5-C6	5.53	122.12	118.80
80	6	1765	A	O5'-P-OP2	-5.53	100.72	105.70
85	5	520	U	C6-N1-C2	5.53	124.32	121.00
85	5	1312	C	N3-C2-O2	5.53	125.77	121.90
1	2	287	G	O4'-C1'-N9	5.53	112.62	108.20
1	2	1171	G	C8-N9-C4	-5.53	104.19	106.40
1	2	1714	A	C6-C5-N7	-5.53	128.43	132.30
1	2	1736	A	N9-C4-C5	-5.53	103.59	105.80
36	1	992	A	C8-N9-C4	-5.53	103.59	105.80
36	1	1826	C	O5'-P-OP2	5.53	117.33	110.70
36	1	2509	U	N1-C2-O2	-5.53	118.93	122.80
36	1	2951	G	C6-N1-C2	-5.53	121.78	125.10
36	1	3045	G	N3-C4-C5	-5.53	125.84	128.60
36	1	3058	U	O5'-P-OP1	-5.53	100.72	105.70
36	1	3220	G	N7-C8-N9	5.53	115.86	113.10
36	1	3316	A	C5-N7-C8	-5.53	101.14	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	21	U	OP2-P-O3'	5.53	117.36	105.20
80	6	67	A	O5'-P-OP1	-5.53	100.73	105.70
80	6	408	C	N3-C4-N4	-5.53	114.13	118.00
80	6	795	U	C2-N1-C1'	5.53	124.33	117.70
80	6	1348	A	C4-C5-C6	-5.53	114.24	117.00
80	6	1683	C	C5-C4-N4	-5.53	116.33	120.20
85	5	198	A	C6-N1-C2	5.53	121.92	118.60
85	5	332	C	N3-C4-C5	-5.53	119.69	121.90
85	5	347	G	N1-C2-N2	-5.53	111.23	116.20
85	5	903	U	C5-C4-O4	5.53	129.22	125.90
85	5	969	C	OP1-P-O3'	5.53	117.36	105.20
85	5	984	G	N1-C2-N2	-5.53	111.22	116.20
85	5	1100	U	OP1-P-OP2	5.53	127.89	119.60
85	5	1178	G	C6-C5-N7	-5.53	127.08	130.40
85	5	1384	U	N3-C4-C5	-5.53	111.28	114.60
85	5	1757	A	C8-N9-C4	-5.53	103.59	105.80
85	5	2566	C	C6-N1-C2	-5.53	118.09	120.30
85	5	3234	A	C5-C6-N1	5.53	120.46	117.70
38	8	95	G	O5'-P-OP2	-5.53	100.72	105.70
47	m0	139	ARG	CG-CD-NE	5.53	123.41	111.80
62	n6	51	ARG	NE-CZ-NH1	-5.53	117.54	120.30
1	2	318	U	C6-N1-C2	5.53	124.31	121.00
1	2	395	U	N1-C2-O2	-5.53	118.93	122.80
1	2	1296	A	N1-C2-N3	-5.53	126.54	129.30
1	2	1489	G	OP1-P-O3'	5.53	117.36	105.20
1	2	1505	U	OP1-P-OP2	-5.53	111.31	119.60
36	1	1129	A	N1-C2-N3	5.53	132.06	129.30
36	1	1369	A	N7-C8-N9	-5.53	111.04	113.80
36	1	1560	G	N3-C4-C5	-5.53	125.84	128.60
36	1	2187	G	C5-N7-C8	-5.53	101.54	104.30
36	1	2764	C	N1-C2-O2	-5.53	115.58	118.90
80	6	81	G	N7-C8-N9	-5.53	110.34	113.10
10	s8	50	GLY	C-N-CA	-5.53	110.69	122.30
85	5	515	C	N1-C2-O2	-5.53	115.58	118.90
85	5	995	U	C2-N3-C4	-5.53	123.69	127.00
85	5	1087	G	N1-C6-O6	5.53	123.22	119.90
85	5	2191	U	N3-C4-O4	-5.53	115.53	119.40
85	5	2262	A	N1-C2-N3	-5.53	126.54	129.30
85	5	2905	U	O5'-P-OP2	-5.53	100.73	105.70
75	o9	51	ILE	CG1-CB-CG2	-5.53	99.25	111.40
78	q2	8	ARG	NE-CZ-NH2	-5.53	117.54	120.30
1	2	551	G	C8-N9-C4	-5.52	104.19	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1248	G	C5-C6-N1	-5.52	108.74	111.50
36	1	1743	G	C5-C6-O6	5.52	131.91	128.60
36	1	1867	A	O5'-P-OP1	-5.52	100.73	105.70
36	1	1903	U	C4-C5-C6	5.52	123.01	119.70
36	1	2815	G	N7-C8-N9	5.52	115.86	113.10
51	M5	71	ARG	NE-CZ-NH1	5.52	123.06	120.30
80	6	669	G	N3-C4-N9	5.52	129.31	126.00
80	6	709	C	N3-C4-C5	-5.52	119.69	121.90
85	5	25	U	O5'-P-OP2	-5.52	100.73	105.70
85	5	619	A	C5-C6-N6	-5.52	119.28	123.70
85	5	1301	A	N3-C4-N9	-5.52	122.98	127.40
85	5	1893	A	C6-N1-C2	-5.52	115.29	118.60
85	5	3315	G	N1-C2-N2	-5.52	111.23	116.20
1	2	67	A	C6-C5-N7	5.52	136.17	132.30
1	2	971	A	N1-C6-N6	5.52	121.91	118.60
36	1	414	U	N3-C4-C5	5.52	117.91	114.60
36	1	790	U	C5-C6-N1	-5.52	119.94	122.70
36	1	1066	G	C2-N3-C4	-5.52	109.14	111.90
36	1	1819	U	C6-N1-C2	-5.52	117.69	121.00
36	1	2762	A	C5-C6-N1	-5.52	114.94	117.70
36	1	3128	G	N9-C4-C5	5.52	107.61	105.40
80	6	264	G	C6-C5-N7	-5.52	127.09	130.40
85	5	298	U	N3-C2-O2	-5.52	118.33	122.20
85	5	362	U	N3-C4-O4	5.52	123.27	119.40
85	5	588	G	N3-C4-C5	-5.52	125.84	128.60
85	5	773	G	OP1-P-OP2	-5.52	111.31	119.60
85	5	902	G	C5-C6-N1	5.52	114.26	111.50
85	5	902	G	C6-N1-C2	-5.52	121.79	125.10
85	5	1041	U	OP2-P-O3'	5.52	117.35	105.20
85	5	1534	A	C8-N9-C4	-5.52	103.59	105.80
85	5	1889	G	N3-C4-N9	5.52	129.31	126.00
85	5	2799	A	N7-C8-N9	5.52	116.56	113.80
85	5	3037	U	C6-N1-C2	-5.52	117.69	121.00
85	5	3087	A	O4'-C1'-N9	-5.52	103.78	108.20
1	2	833	A	N1-C6-N6	5.52	121.91	118.60
1	2	1011	C	C5-C6-N1	5.52	123.76	121.00
36	1	1028	U	N1-C2-N3	-5.52	111.59	114.90
36	1	2502	A	N9-C4-C5	-5.52	103.59	105.80
36	1	2778	G	P-O3'-C3'	-5.52	113.08	119.70
36	1	2849	C	C6-N1-C2	-5.52	118.09	120.30
38	4	90	U	O4'-C1'-N1	-5.52	103.78	108.20
80	6	778	G	C4-C5-C6	-5.52	115.49	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1305	U	OP1-P-OP2	5.52	127.88	119.60
85	5	741	U	N3-C4-C5	-5.52	111.29	114.60
85	5	1000	C	C4-C5-C6	-5.52	114.64	117.40
85	5	1255	C	C5-C6-N1	5.52	123.76	121.00
85	5	2410	U	O5'-P-OP1	-5.52	100.73	105.70
37	7	92	A	N9-C4-C5	-5.52	103.59	105.80
1	2	319	U	N3-C4-C5	-5.52	111.29	114.60
1	2	406	U	C4-C5-C6	5.52	123.01	119.70
1	2	646	C	N3-C4-C5	-5.52	119.69	121.90
1	2	680	C	N3-C2-O2	-5.52	118.04	121.90
1	2	1456	U	C5-C6-N1	5.52	125.46	122.70
1	2	1585	C	C2-N3-C4	-5.52	117.14	119.90
1	2	1611	U	C2-N3-C4	5.52	130.31	127.00
1	2	1796	C	N3-C4-C5	-5.52	119.69	121.90
36	1	724	U	C5-C6-N1	-5.52	119.94	122.70
36	1	933	A	C2-N3-C4	-5.52	107.84	110.60
36	1	1463	U	C5-C6-N1	-5.52	119.94	122.70
36	1	2802	A	N1-C2-N3	5.52	132.06	129.30
36	1	2846	U	N3-C2-O2	-5.52	118.34	122.20
36	1	3108	G	O5'-P-OP2	-5.52	100.73	105.70
36	1	3177	G	C4-C5-C6	-5.52	115.49	118.80
36	1	3214	U	N1-C2-N3	5.52	118.21	114.90
80	6	433	C	C6-N1-C1'	-5.52	114.18	120.80
80	6	512	A	N9-C4-C5	5.52	108.01	105.80
80	6	624	G	C8-N9-C4	5.52	108.61	106.40
80	6	1078	C	C2-N3-C4	5.52	122.66	119.90
85	5	644	G	N1-C2-N2	-5.52	111.23	116.20
85	5	1150	A	N7-C8-N9	-5.52	111.04	113.80
85	5	1302	A	OP2-P-O3'	5.52	117.34	105.20
85	5	1482	A	N1-C6-N6	5.52	121.91	118.60
85	5	2145	A	OP1-P-OP2	-5.52	111.32	119.60
85	5	2951	G	C5-C6-N1	5.52	114.26	111.50
85	5	3231	U	N1-C2-N3	5.52	118.21	114.90
85	5	3277	U	C5-C4-O4	-5.52	122.59	125.90
39	12	32	LEU	CB-CG-CD1	-5.52	101.62	111.00
1	2	586	G	C6-C5-N7	5.52	133.71	130.40
1	2	627	C	N3-C2-O2	5.52	125.76	121.90
10	S8	18	ARG	NE-CZ-NH1	-5.52	117.54	120.30
36	1	502	U	OP1-P-O3'	5.52	117.34	105.20
36	1	699	A	C5-N7-C8	-5.52	101.14	103.90
36	1	968	G	N9-C4-C5	-5.52	103.19	105.40
36	1	1096	U	N3-C4-C5	-5.52	111.29	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1784	G	N3-C2-N2	-5.52	116.04	119.90
36	1	2292	U	N3-C4-O4	5.52	123.26	119.40
36	1	2433	U	C6-N1-C1'	-5.52	113.47	121.20
36	1	2860	U	OP2-P-O3'	5.52	117.34	105.20
36	1	3120	C	OP1-P-OP2	5.52	127.88	119.60
80	6	280	U	C2-N3-C4	-5.52	123.69	127.00
80	6	327	U	C2-N3-C4	5.52	130.31	127.00
80	6	589	C	OP1-P-OP2	-5.52	111.32	119.60
80	6	1289	U	N3-C4-C5	-5.52	111.29	114.60
80	6	1535	U	N1-C2-N3	5.52	118.21	114.90
85	5	108	A	OP2-P-O3'	5.52	117.34	105.20
85	5	325	A	C8-N9-C4	-5.52	103.59	105.80
85	5	387	A	C2-N3-C4	5.52	113.36	110.60
85	5	1185	C	C5-C6-N1	-5.52	118.24	121.00
85	5	1325	U	O5'-P-OP2	-5.52	100.73	105.70
85	5	1637	A	N9-C4-C5	5.52	108.01	105.80
85	5	1820	U	O4'-C1'-N1	5.52	112.61	108.20
85	5	1922	A	N1-C6-N6	5.52	121.91	118.60
85	5	2607	G	C4-C5-C6	5.52	122.11	118.80
85	5	2972	G	O5'-P-OP2	5.52	117.32	110.70
85	5	3367	C	P-O3'-C3'	-5.52	113.08	119.70
36	1	1667	A	N1-C2-N3	5.52	132.06	129.30
36	1	1770	G	C2-N3-C4	-5.52	109.14	111.90
80	6	273	G	N7-C8-N9	5.52	115.86	113.10
80	6	466	U	N3-C4-O4	-5.52	115.54	119.40
80	6	533	U	C5-C6-N1	-5.52	119.94	122.70
80	6	544	A	C4-C5-C6	-5.52	114.24	117.00
80	6	879	G	N7-C8-N9	-5.52	110.34	113.10
85	5	90	C	N3-C4-N4	5.52	121.86	118.00
85	5	436	A	C4-C5-C6	-5.52	114.24	117.00
85	5	2956	A	C5-N7-C8	-5.52	101.14	103.90
85	5	3056	U	O4'-C1'-N1	-5.52	103.79	108.20
1	2	1171	G	N1-C6-O6	5.51	123.21	119.90
36	1	67	A	O5'-P-OP2	5.51	117.32	110.70
36	1	100	A	OP2-P-O3'	5.51	117.33	105.20
36	1	127	G	OP1-P-OP2	5.51	127.87	119.60
36	1	273	A	C8-N9-C4	5.51	108.01	105.80
36	1	1320	C	O5'-P-OP2	-5.51	100.74	105.70
36	1	1379	G	C4-C5-C6	5.51	122.11	118.80
36	1	1447	G	N7-C8-N9	-5.51	110.34	113.10
36	1	2325	G	OP2-P-O3'	5.51	117.33	105.20
36	1	2610	G	N1-C6-O6	5.51	123.21	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2691	A	N1-C2-N3	5.51	132.06	129.30
36	1	2753	G	N3-C2-N2	5.51	123.76	119.90
36	1	2826	U	C2-N3-C4	5.51	130.31	127.00
36	1	3358	U	N3-C4-O4	-5.51	115.54	119.40
78	Q2	87	ARG	NE-CZ-NH2	5.51	123.06	120.30
80	6	1591	C	N3-C4-C5	-5.51	119.69	121.90
80	6	1696	G	P-O3'-C3'	5.51	126.32	119.70
85	5	131	C	N3-C4-N4	-5.51	114.14	118.00
85	5	443	G	C5-C6-N1	-5.51	108.74	111.50
85	5	1081	U	O4'-C1'-N1	5.51	112.61	108.20
85	5	1238	C	OP1-P-OP2	5.51	127.87	119.60
85	5	1411	C	OP2-P-O3'	5.51	117.33	105.20
85	5	1529	A	N3-C4-N9	-5.51	122.99	127.40
85	5	1660	C	OP2-P-O3'	-5.51	93.07	105.20
85	5	2356	A	C6-C5-N7	-5.51	128.44	132.30
85	5	2612	U	O4'-C1'-N1	-5.51	103.79	108.20
85	5	2866	U	C5-C6-N1	5.51	125.46	122.70
85	5	3336	A	N9-C4-C5	5.51	108.01	105.80
37	7	84	A	O5'-P-OP1	-5.51	100.74	105.70
38	8	3	A	OP1-P-O3'	5.51	117.33	105.20
1	2	431	C	C5-C4-N4	5.51	124.06	120.20
1	2	724	C	C6-N1-C2	-5.51	118.09	120.30
36	1	371	G	C6-N1-C2	-5.51	121.79	125.10
36	1	523	A	C4-C5-N7	-5.51	107.94	110.70
36	1	1379	G	C6-C5-N7	-5.51	127.09	130.40
36	1	2283	G	C2-N3-C4	-5.51	109.14	111.90
36	1	2432	A	C4-C5-C6	5.51	119.76	117.00
36	1	2586	G	C5-C6-N1	5.51	114.26	111.50
36	1	3146	G	C2-N3-C4	-5.51	109.14	111.90
38	4	45	C	O4'-C1'-N1	-5.51	103.79	108.20
80	6	495	C	C5-C6-N1	5.51	123.76	121.00
80	6	1342	C	C2-N3-C4	5.51	122.66	119.90
85	5	393	U	C2-N3-C4	5.51	130.31	127.00
85	5	764	U	N3-C4-O4	5.51	123.26	119.40
85	5	2294	U	O4'-C1'-N1	-5.51	103.79	108.20
85	5	2605	G	C6-C5-N7	-5.51	127.09	130.40
85	5	3242	G	OP1-P-OP2	5.51	127.87	119.60
1	2	187	G	C6-C5-N7	5.51	133.71	130.40
1	2	1343	A	C6-N1-C2	5.51	121.91	118.60
1	2	1442	C	C4-C5-C6	5.51	120.16	117.40
36	1	18	G	N3-C4-N9	-5.51	122.69	126.00
36	1	780	A	O4'-C1'-N9	-5.51	103.79	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	982	C	OP1-P-OP2	5.51	127.87	119.60
36	1	1114	U	N1-C2-O2	5.51	126.66	122.80
36	1	1136	A	OP1-P-OP2	5.51	127.87	119.60
36	1	2701	U	N3-C4-C5	-5.51	111.29	114.60
36	1	3004	C	C4-C5-C6	-5.51	114.64	117.40
36	1	3006	A	C5-C6-N1	-5.51	114.94	117.70
36	1	3021	A	C4-C5-N7	-5.51	107.94	110.70
36	1	3063	C	O5'-P-OP1	5.51	117.31	110.70
36	1	3349	C	O5'-P-OP2	-5.51	100.74	105.70
80	6	138	A	C2-N3-C4	5.51	113.36	110.60
80	6	436	A	C2-N3-C4	-5.51	107.84	110.60
80	6	536	C	N3-C4-N4	5.51	121.86	118.00
80	6	784	C	N3-C4-C5	-5.51	119.69	121.90
85	5	608	A	C5-C6-N6	-5.51	119.29	123.70
85	5	625	G	N1-C6-O6	-5.51	116.59	119.90
85	5	787	G	N1-C6-O6	5.51	123.21	119.90
85	5	1092	C	N1-C2-O2	-5.51	115.59	118.90
85	5	1153	A	N7-C8-N9	-5.51	111.05	113.80
85	5	1168	U	C4-C5-C6	5.51	123.01	119.70
85	5	1674	G	N9-C4-C5	5.51	107.60	105.40
85	5	1732	U	C4-C5-C6	-5.51	116.39	119.70
88	n4	39	LEU	CA-CB-CG	5.51	127.98	115.30
1	2	436	A	N3-C4-C5	-5.51	122.94	126.80
1	2	603	U	C4-C5-C6	5.51	123.00	119.70
1	2	1142	C	C5-C6-N1	-5.51	118.25	121.00
1	2	1280	G	C5-C6-N1	-5.51	108.75	111.50
1	2	1320	A	O5'-P-OP1	-5.51	100.74	105.70
1	2	1647	C	O5'-P-OP1	5.51	117.31	110.70
1	2	1760	G	N1-C6-O6	5.51	123.21	119.90
36	1	1187	C	C5-C6-N1	5.51	123.75	121.00
36	1	1289	G	N1-C2-N3	5.51	127.21	123.90
36	1	1296	C	N3-C2-O2	5.51	125.76	121.90
36	1	1421	G	OP2-P-O3'	5.51	117.32	105.20
36	1	1542	G	N7-C8-N9	5.51	115.85	113.10
36	1	1949	G	N1-C2-N2	5.51	121.16	116.20
36	1	2802	A	OP1-P-OP2	-5.51	111.34	119.60
36	1	2838	A	C6-N1-C2	-5.51	115.29	118.60
36	1	2887	A	C8-N9-C4	5.51	108.00	105.80
36	1	2913	C	C6-N1-C2	-5.51	118.10	120.30
36	1	3101	G	N3-C4-C5	-5.51	125.84	128.60
37	3	118	A	N7-C8-N9	-5.51	111.05	113.80
80	6	1	U	C2-N1-C1'	5.51	124.31	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	34	G	C2-N3-C4	-5.51	109.14	111.90
80	6	370	A	O5'-P-OP1	5.51	117.31	110.70
80	6	591	A	C6-N1-C2	-5.51	115.30	118.60
80	6	874	C	N3-C4-N4	5.51	121.86	118.00
85	5	158	G	C8-N9-C4	5.51	108.60	106.40
85	5	342	A	C5-N7-C8	-5.51	101.15	103.90
85	5	368	G	N9-C4-C5	5.51	107.60	105.40
85	5	599	C	N3-C4-N4	5.51	121.86	118.00
85	5	705	A	OP1-P-O3'	5.51	117.32	105.20
85	5	877	C	C4-C5-C6	-5.51	114.64	117.40
85	5	1119	C	N3-C4-C5	-5.51	119.70	121.90
85	5	1619	A	N1-C6-N6	5.51	121.91	118.60
85	5	1929	G	O4'-C1'-N9	-5.51	103.79	108.20
85	5	2121	G	OP2-P-O3'	5.51	117.32	105.20
85	5	2122	G	N3-C4-C5	5.51	131.35	128.60
85	5	2383	C	C6-N1-C2	-5.51	118.10	120.30
85	5	3029	A	N1-C2-N3	5.51	132.06	129.30
85	5	3374	U	C5-C4-O4	5.51	129.21	125.90
85	5	3391	A	O5'-P-OP1	-5.51	100.74	105.70
49	m3	27	ASP	CB-CG-OD2	5.51	123.26	118.30
52	m6	41	LEU	CB-CG-CD1	-5.51	101.63	111.00
65	n9	28	LYS	CD-CE-NZ	5.51	124.37	111.70
36	1	44	U	C6-N1-C2	5.51	124.31	121.00
36	1	2217	U	N1-C2-O2	-5.51	118.94	122.80
36	1	2781	U	N1-C2-O2	-5.51	118.94	122.80
36	1	2911	A	C5-N7-C8	-5.51	101.15	103.90
38	4	40	A	C6-C5-N7	-5.51	128.44	132.30
38	4	61	A	C6-C5-N7	-5.51	128.44	132.30
80	6	14	C	OP2-P-O3'	5.51	117.32	105.20
85	5	219	A	C4-C5-C6	5.51	119.75	117.00
85	5	655	C	OP1-P-O3'	5.51	117.32	105.20
85	5	1180	A	N9-C4-C5	5.51	108.00	105.80
1	2	1711	A	N3-C4-C5	5.51	130.65	126.80
36	1	14	U	C5-C6-N1	-5.51	119.95	122.70
36	1	22	G	O5'-P-OP2	-5.51	100.74	105.70
36	1	124	U	P-O3'-C3'	5.51	126.31	119.70
36	1	358	G	C4-C5-N7	5.51	113.00	110.80
36	1	530	G	C2-N3-C4	5.51	114.65	111.90
36	1	728	G	C2-N3-C4	5.51	114.65	111.90
36	1	750	G	C4-C5-C6	5.51	122.10	118.80
36	1	844	G	N3-C2-N2	-5.51	116.05	119.90
36	1	994	G	OP1-P-O3'	5.51	117.31	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1035	G	N1-C6-O6	-5.51	116.60	119.90
36	1	1859	A	C5-N7-C8	5.51	106.65	103.90
36	1	2156	C	N3-C4-C5	-5.51	119.70	121.90
36	1	2278	C	N1-C2-N3	-5.51	115.35	119.20
36	1	2315	G	O5'-P-OP1	-5.51	100.74	105.70
37	3	87	G	O5'-P-OP1	-5.51	100.74	105.70
39	L2	247	ARG	NE-CZ-NH2	-5.51	117.55	120.30
80	6	337	G	N7-C8-N9	5.51	115.85	113.10
80	6	572	C	N1-C2-O2	-5.51	115.60	118.90
80	6	982	U	OP2-P-O3'	5.51	117.31	105.20
80	6	1384	A	C2-N3-C4	-5.51	107.85	110.60
80	6	1487	A	C5-N7-C8	5.51	106.65	103.90
85	5	612	U	N3-C4-O4	5.51	123.25	119.40
85	5	699	A	OP2-P-O3'	5.51	117.31	105.20
85	5	797	U	N3-C4-O4	5.51	123.25	119.40
85	5	851	C	C5-C6-N1	-5.51	118.25	121.00
85	5	1766	G	C5-C6-O6	-5.51	125.30	128.60
85	5	3182	G	C5-C6-N1	5.51	114.25	111.50
1	2	1593	G	C5-C6-O6	-5.50	125.30	128.60
36	1	925	A	N1-C6-N6	-5.50	115.30	118.60
36	1	1060	U	N1-C2-N3	-5.50	111.60	114.90
36	1	2252	A	C8-N9-C4	-5.50	103.60	105.80
38	4	67	U	OP2-P-O3'	5.50	117.31	105.20
38	4	116	G	C5-C6-O6	5.50	131.90	128.60
80	6	564	G	N9-C4-C5	5.50	107.60	105.40
80	6	845	G	C6-N1-C2	5.50	128.40	125.10
85	5	222	A	N1-C6-N6	-5.50	115.30	118.60
85	5	2161	G	C8-N9-C4	-5.50	104.20	106.40
85	5	3212	C	OP1-P-OP2	-5.50	111.34	119.60
85	5	3219	G	OP1-P-OP2	-5.50	111.34	119.60
1	2	98	U	C6-N1-C2	5.50	124.30	121.00
1	2	964	U	O5'-P-OP2	-5.50	100.75	105.70
36	1	401	U	C6-N1-C2	-5.50	117.70	121.00
36	1	1914	G	N1-C2-N2	-5.50	111.25	116.20
36	1	2521	U	N1-C2-N3	-5.50	111.60	114.90
36	1	2604	U	N3-C4-O4	5.50	123.25	119.40
36	1	2659	G	C8-N9-C4	5.50	108.60	106.40
80	6	128	U	C5-C4-O4	5.50	129.20	125.90
80	6	249	U	C6-N1-C2	-5.50	117.70	121.00
80	6	357	G	C5-C6-O6	5.50	131.90	128.60
80	6	381	C	N3-C4-C5	-5.50	119.70	121.90
80	6	1599	C	N3-C4-N4	-5.50	114.15	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	536	U	OP1-P-OP2	5.50	127.86	119.60
85	5	806	A	C4-C5-N7	5.50	113.45	110.70
85	5	868	C	N3-C2-O2	5.50	125.75	121.90
85	5	1049	C	N1-C2-N3	5.50	123.05	119.20
85	5	1125	U	OP1-P-O3'	-5.50	93.09	105.20
85	5	1881	A	C5-C6-N6	-5.50	119.30	123.70
85	5	2317	A	N3-C4-C5	-5.50	122.95	126.80
85	5	2903	A	C4-C5-N7	-5.50	107.95	110.70
85	5	3369	G	C6-N1-C2	-5.50	121.80	125.10
1	2	422	G	C5-C6-O6	-5.50	125.30	128.60
36	1	165	A	C5-C6-N1	-5.50	114.95	117.70
36	1	666	A	C5-N7-C8	5.50	106.65	103.90
36	1	918	C	C2-N3-C4	5.50	122.65	119.90
36	1	2589	G	N1-C2-N3	5.50	127.20	123.90
36	1	2911	A	O5'-P-OP2	-5.50	100.75	105.70
36	1	3379	C	N3-C4-N4	5.50	121.85	118.00
80	6	53	G	N9-C4-C5	5.50	107.60	105.40
80	6	331	A	C6-N1-C2	-5.50	115.30	118.60
80	6	842	C	C5-C6-N1	5.50	123.75	121.00
80	6	1102	G	C5-N7-C8	5.50	107.05	104.30
80	6	1516	A	C5-C6-N1	5.50	120.45	117.70
85	5	965	A	C4-C5-C6	-5.50	114.25	117.00
85	5	1057	A	OP1-P-OP2	-5.50	111.35	119.60
85	5	1314	C	OP2-P-O3'	5.50	117.30	105.20
85	5	1421	G	C2-N3-C4	-5.50	109.15	111.90
85	5	2384	A	P-O3'-C3'	-5.50	113.10	119.70
85	5	2687	G	C5-C6-O6	-5.50	125.30	128.60
85	5	2828	G	OP1-P-O3'	-5.50	93.10	105.20
85	5	2842	U	C6-N1-C2	-5.50	117.70	121.00
85	5	3002	C	C2-N1-C1'	-5.50	112.75	118.80
37	7	50	U	C6-N1-C2	-5.50	117.70	121.00
1	2	1288	U	N3-C4-C5	-5.50	111.30	114.60
36	1	1468	A	C5-N7-C8	-5.50	101.15	103.90
36	1	1833	G	OP2-P-O3'	5.50	117.30	105.20
36	1	3126	C	N3-C2-O2	5.50	125.75	121.90
80	6	881	A	C4-C5-N7	5.50	113.45	110.70
80	6	988	A	C8-N9-C4	-5.50	103.60	105.80
80	6	1298	U	N1-C2-O2	-5.50	118.95	122.80
80	6	1626	U	C5-C6-N1	-5.50	119.95	122.70
85	5	24	G	N7-C8-N9	-5.50	110.35	113.10
85	5	2229	A	N1-C6-N6	-5.50	115.30	118.60
85	5	2525	G	OP1-P-OP2	5.50	127.85	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3347	A	C2-N3-C4	-5.50	107.85	110.60
38	8	87	G	C6-C5-N7	5.50	133.70	130.40
1	2	370	A	C6-C5-N7	5.50	136.15	132.30
1	2	986	A	N7-C8-N9	5.50	116.55	113.80
1	2	1112	U	N3-C4-O4	-5.50	115.55	119.40
1	2	1179	A	N3-C4-C5	-5.50	122.95	126.80
36	1	331	G	C5-N7-C8	-5.50	101.55	104.30
36	1	964	G	OP2-P-O3'	5.50	117.30	105.20
36	1	967	A	C4-C5-C6	5.50	119.75	117.00
36	1	1476	G	N1-C2-N3	5.50	127.20	123.90
36	1	1492	G	C2-N3-C4	-5.50	109.15	111.90
36	1	1850	A	N7-C8-N9	5.50	116.55	113.80
36	1	2223	A	OP1-P-OP2	-5.50	111.35	119.60
36	1	2306	C	C2-N1-C1'	5.50	124.85	118.80
36	1	2696	A	N7-C8-N9	5.50	116.55	113.80
36	1	2957	G	C4-C5-C6	-5.50	115.50	118.80
80	6	1633	A	N7-C8-N9	5.50	116.55	113.80
80	6	1761	U	N1-C2-N3	5.50	118.20	114.90
85	5	24	G	C4-C5-C6	-5.50	115.50	118.80
85	5	34	A	C6-N1-C2	-5.50	115.30	118.60
85	5	1891	A	N1-C6-N6	-5.50	115.30	118.60
85	5	2597	U	N3-C4-C5	5.50	117.90	114.60
85	5	2929	C	C5-C6-N1	-5.50	118.25	121.00
85	5	2936	A	C5-C6-N6	5.50	128.10	123.70
85	5	2973	G	C4-C5-C6	5.50	122.10	118.80
85	5	2978	U	OP1-P-OP2	-5.50	111.35	119.60
85	5	3021	A	N3-C4-N9	-5.50	123.00	127.40
85	5	3115	C	N1-C2-O2	5.50	122.20	118.90
85	5	3232	G	C2-N3-C4	-5.50	109.15	111.90
85	5	3336	A	C4-C5-C6	5.50	119.75	117.00
37	7	64	A	N3-C4-N9	5.50	131.80	127.40
1	2	110	U	O5'-P-OP1	-5.50	100.75	105.70
1	2	869	U	C5-C6-N1	5.50	125.45	122.70
36	1	63	A	N7-C8-N9	5.50	116.55	113.80
36	1	85	A	C6-C5-N7	-5.50	128.45	132.30
36	1	142	C	N1-C2-N3	5.50	123.05	119.20
36	1	331	G	N9-C4-C5	5.50	107.60	105.40
36	1	390	G	C2-N3-C4	-5.50	109.15	111.90
36	1	549	U	N3-C2-O2	5.50	126.05	122.20
36	1	697	A	C4-C5-N7	5.50	113.45	110.70
36	1	941	G	N3-C4-N9	5.50	129.30	126.00
36	1	998	A	C6-C5-N7	-5.50	128.45	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1466	G	C6-C5-N7	-5.50	127.10	130.40
36	1	1704	A	OP2-P-O3'	5.50	117.29	105.20
36	1	2130	G	N7-C8-N9	5.50	115.85	113.10
36	1	2172	A	OP1-P-O3'	5.50	117.29	105.20
36	1	2900	A	C5-C6-N6	-5.50	119.30	123.70
36	1	3025	C	C6-N1-C1'	-5.50	114.20	120.80
36	1	3045	G	C5-N7-C8	5.50	107.05	104.30
36	1	3136	G	P-O3'-C3'	-5.50	113.11	119.70
36	1	3221	C	OP1-P-O3'	5.50	117.29	105.20
36	1	3231	U	OP1-P-OP2	5.50	127.84	119.60
80	6	172	C	OP1-P-OP2	-5.50	111.36	119.60
80	6	491	C	C5-C6-N1	5.50	123.75	121.00
80	6	586	G	C5-C6-O6	5.50	131.90	128.60
80	6	696	C	N1-C2-O2	-5.50	115.60	118.90
80	6	952	A	O5'-P-OP1	5.50	117.30	110.70
80	6	1672	G	C8-N9-C4	-5.50	104.20	106.40
85	5	592	A	N9-C4-C5	-5.50	103.60	105.80
85	5	1223	A	C2-N3-C4	-5.50	107.85	110.60
85	5	2234	G	C8-N9-C1'	-5.50	119.86	127.00
85	5	2307	G	C4-C5-N7	-5.50	108.60	110.80
85	5	2533	G	C5-C6-N1	5.50	114.25	111.50
85	5	2665	U	C5-C4-O4	-5.50	122.60	125.90
57	n1	83	ARG	NE-CZ-NH1	-5.50	117.55	120.30
36	1	58	G	C5-C6-N1	5.50	114.25	111.50
36	1	2750	U	C4-C5-C6	5.50	123.00	119.70
36	1	3207	U	C2-N3-C4	5.50	130.30	127.00
80	6	366	A	C5-N7-C8	5.50	106.65	103.90
80	6	460	A	N9-C4-C5	5.50	108.00	105.80
80	6	1228	G	N3-C4-C5	-5.50	125.85	128.60
85	5	2172	A	OP1-P-OP2	5.50	127.84	119.60
85	5	3030	G	N1-C6-O6	-5.50	116.60	119.90
1	2	64	U	N3-C4-C5	-5.49	111.30	114.60
1	2	368	U	C6-N1-C1'	-5.49	113.51	121.20
1	2	467	G	C6-N1-C2	-5.49	121.80	125.10
36	1	180	C	O5'-P-OP2	5.49	117.29	110.70
36	1	299	G	N1-C2-N2	5.49	121.14	116.20
36	1	338	A	N1-C6-N6	-5.49	115.30	118.60
36	1	656	A	C5-C6-N6	-5.49	119.31	123.70
36	1	1181	U	C5-C4-O4	5.49	129.20	125.90
36	1	1395	G	C6-C5-N7	-5.49	127.10	130.40
36	1	2345	A	C5-N7-C8	-5.49	101.15	103.90
36	1	2513	U	C5-C4-O4	5.49	129.20	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2660	G	N1-C6-O6	-5.49	116.60	119.90
36	1	2887	A	C2-N3-C4	5.49	113.35	110.60
36	1	2956	A	N3-C4-C5	-5.49	122.95	126.80
36	1	3263	G	C5-C6-N1	-5.49	108.75	111.50
37	3	11	A	OP1-P-OP2	5.49	127.84	119.60
38	4	114	G	C5-N7-C8	-5.49	101.55	104.30
80	6	230	C	N1-C2-O2	5.49	122.20	118.90
80	6	252	U	C5-C6-N1	-5.49	119.95	122.70
80	6	811	A	C8-N9-C4	-5.49	103.60	105.80
80	6	1161	C	OP1-P-OP2	5.49	127.84	119.60
80	6	1198	G	N1-C2-N3	-5.49	120.60	123.90
80	6	1337	A	N1-C6-N6	5.49	121.90	118.60
6	s4	187	ARG	NE-CZ-NH2	-5.49	117.55	120.30
85	5	234	G	N3-C2-N2	-5.49	116.06	119.90
85	5	847	A	C2-N3-C4	-5.49	107.85	110.60
85	5	857	G	C4-C5-N7	-5.49	108.60	110.80
85	5	1060	U	N3-C4-C5	5.49	117.90	114.60
85	5	1607	U	C5-C4-O4	-5.49	122.60	125.90
85	5	2138	A	N7-C8-N9	5.49	116.55	113.80
85	5	2552	C	C2-N1-C1'	5.49	124.84	118.80
85	5	2679	A	N9-C4-C5	-5.49	103.60	105.80
85	5	2996	U	O5'-P-OP1	5.49	117.29	110.70
36	1	557	A	OP1-P-O3'	5.49	117.28	105.20
36	1	1655	G	N3-C4-N9	5.49	129.29	126.00
36	1	2764	C	C6-N1-C2	-5.49	118.10	120.30
39	L2	128	ARG	NE-CZ-NH1	-5.49	117.55	120.30
85	5	350	C	C5-C6-N1	5.49	123.75	121.00
85	5	1480	G	N1-C2-N2	5.49	121.14	116.20
85	5	1555	U	C4-C5-C6	5.49	123.00	119.70
1	2	10	G	N3-C2-N2	5.49	123.74	119.90
1	2	86	A	C6-N1-C2	5.49	121.89	118.60
1	2	971	A	C6-C5-N7	-5.49	128.46	132.30
1	2	1224	G	O4'-C1'-N9	5.49	112.59	108.20
1	2	1665	U	N1-C2-O2	5.49	126.64	122.80
36	1	29	C	N3-C4-C5	5.49	124.10	121.90
36	1	103	G	N9-C4-C5	5.49	107.60	105.40
36	1	1199	C	C5-C6-N1	-5.49	118.25	121.00
36	1	1776	G	O5'-P-OP1	-5.49	100.76	105.70
36	1	2230	C	N3-C2-O2	5.49	125.74	121.90
36	1	2321	A	O4'-C1'-N9	-5.49	103.81	108.20
36	1	2955	U	N1-C2-O2	5.49	126.64	122.80
36	1	3241	G	OP2-P-O3'	5.49	117.28	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	45	C	N1-C2-N3	-5.49	115.36	119.20
38	4	141	C	C6-N1-C2	-5.49	118.10	120.30
49	M3	139	LEU	CB-CG-CD2	-5.49	101.67	111.00
79	Q3	36	ARG	NE-CZ-NH2	5.49	123.05	120.30
80	6	327	U	C2-N1-C1'	5.49	124.29	117.70
80	6	640	U	C5-C4-O4	-5.49	122.61	125.90
80	6	1592	A	C4-C5-N7	5.49	113.45	110.70
80	6	1676	U	C5-C6-N1	5.49	125.44	122.70
85	5	58	G	C2-N3-C4	5.49	114.64	111.90
85	5	310	U	O5'-P-OP1	5.49	117.29	110.70
85	5	1051	U	OP1-P-O3'	5.49	117.28	105.20
85	5	1401	A	OP1-P-OP2	5.49	127.84	119.60
85	5	1510	G	C5-C6-O6	-5.49	125.31	128.60
85	5	1562	C	O5'-P-OP2	5.49	117.29	110.70
85	5	2820	A	N1-C6-N6	5.49	121.89	118.60
85	5	3197	G	O4'-C1'-N9	-5.49	103.81	108.20
85	5	3320	A	C4-C5-C6	5.49	119.75	117.00
1	2	17	C	N3-C4-C5	-5.49	119.70	121.90
1	2	1426	U	C5-C6-N1	-5.49	119.96	122.70
1	2	1509	A	C5-N7-C8	-5.49	101.16	103.90
36	1	164	A	C2-N3-C4	5.49	113.34	110.60
36	1	1891	A	N1-C2-N3	5.49	132.04	129.30
36	1	2194	G	C6-C5-N7	-5.49	127.11	130.40
36	1	2837	A	C8-N9-C4	-5.49	103.60	105.80
37	3	51	A	C8-N9-C4	-5.49	103.61	105.80
38	4	102	U	C2-N1-C1'	5.49	124.29	117.70
80	6	1797	A	C5-C6-N1	5.49	120.44	117.70
85	5	141	C	O5'-P-OP2	5.49	117.29	110.70
85	5	542	G	C6-C5-N7	-5.49	127.11	130.40
85	5	999	G	N7-C8-N9	-5.49	110.36	113.10
85	5	1450	G	N3-C4-N9	-5.49	122.71	126.00
85	5	1580	A	C8-N9-C4	-5.49	103.61	105.80
85	5	1808	G	C6-N1-C2	5.49	128.39	125.10
85	5	2374	C	C5-C4-N4	-5.49	116.36	120.20
85	5	2423	U	C4-C5-C6	5.49	122.99	119.70
1	2	626	U	C5-C6-N1	5.49	125.44	122.70
36	1	212	G	C4-C5-N7	-5.49	108.61	110.80
36	1	1189	C	OP1-P-OP2	5.49	127.83	119.60
36	1	2360	C	N1-C2-O2	-5.49	115.61	118.90
36	1	2626	A	N7-C8-N9	-5.49	111.06	113.80
37	3	59	U	N1-C2-O2	5.49	126.64	122.80
80	6	727	U	C6-N1-C2	-5.49	117.71	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	676	G	N1-C2-N2	-5.49	111.26	116.20
85	5	1870	C	N1-C2-O2	-5.49	115.61	118.90
85	5	2246	G	N3-C4-N9	-5.49	122.71	126.00
85	5	2878	G	C5-N7-C8	-5.49	101.56	104.30
85	5	2928	C	C6-N1-C1'	5.49	127.39	120.80
85	5	3347	A	OP1-P-OP2	-5.49	111.37	119.60
38	8	4	C	C6-N1-C2	-5.49	118.11	120.30
1	2	689	A	C2-N3-C4	-5.49	107.86	110.60
1	2	961	A	N7-C8-N9	5.49	116.54	113.80
1	2	1064	A	C5-N7-C8	5.49	106.64	103.90
36	1	26	A	O5'-P-OP2	5.49	117.28	110.70
36	1	678	G	OP2-P-O3'	5.49	117.27	105.20
36	1	686	G	OP1-P-OP2	-5.49	111.37	119.60
36	1	847	A	C5-C6-N6	-5.49	119.31	123.70
36	1	965	A	C5-N7-C8	-5.49	101.16	103.90
36	1	1289	G	C8-N9-C1'	-5.49	119.87	127.00
36	1	2296	A	C6-N1-C2	-5.49	115.31	118.60
36	1	2581	U	C6-N1-C2	5.49	124.29	121.00
36	1	3026	G	C6-N1-C2	5.49	128.39	125.10
36	1	3085	G	C6-C5-N7	-5.49	127.11	130.40
36	1	3373	U	C4-C5-C6	5.49	122.99	119.70
68	O2	111	ARG	NE-CZ-NH2	5.49	123.04	120.30
80	6	475	A	C5-C6-N6	-5.49	119.31	123.70
80	6	791	A	C4-C5-N7	5.49	113.44	110.70
80	6	824	G	C5-N7-C8	-5.49	101.56	104.30
80	6	926	A	C6-C5-N7	-5.49	128.46	132.30
80	6	975	C	C6-N1-C2	5.49	122.49	120.30
85	5	430	U	N1-C2-N3	5.49	118.19	114.90
85	5	1077	U	C4-C5-C6	-5.49	116.41	119.70
85	5	1152	G	N1-C2-N2	-5.49	111.26	116.20
85	5	1204	A	C4-C5-N7	-5.49	107.96	110.70
85	5	1463	U	N3-C4-C5	-5.49	111.31	114.60
85	5	1735	G	N3-C2-N2	-5.49	116.06	119.90
85	5	2410	U	C4-C5-C6	5.49	122.99	119.70
37	7	108	A	C4-C5-C6	5.49	119.74	117.00
39	12	112	ILE	CG1-CB-CG2	-5.49	99.33	111.40
43	16	82	ARG	NE-CZ-NH1	-5.49	117.56	120.30
80	6	919	A	N7-C8-N9	5.48	116.54	113.80
85	5	21	G	N7-C8-N9	-5.48	110.36	113.10
85	5	277	G	C5-N7-C8	5.48	107.04	104.30
85	5	744	A	OP2-P-O3'	5.48	117.27	105.20
85	5	1749	A	N9-C4-C5	-5.48	103.61	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2197	C	OP1-P-OP2	5.48	127.83	119.60
85	5	2237	C	N1-C2-O2	5.48	122.19	118.90
85	5	3318	G	N3-C4-N9	-5.48	122.71	126.00
1	2	110	U	O4'-C1'-N1	5.48	112.59	108.20
1	2	556	A	OP1-P-O3'	5.48	117.26	105.20
1	2	556	A	N1-C6-N6	-5.48	115.31	118.60
1	2	706	G	N9-C4-C5	5.48	107.59	105.40
1	2	859	G	C4-C5-C6	-5.48	115.51	118.80
36	1	666	A	C4-C5-N7	-5.48	107.96	110.70
36	1	1332	A	C4-C5-C6	5.48	119.74	117.00
36	1	2327	U	O5'-P-OP1	-5.48	100.77	105.70
36	1	3299	A	C6-C5-N7	-5.48	128.46	132.30
36	1	3303	G	N3-C2-N2	5.48	123.74	119.90
37	3	49	G	N1-C6-O6	-5.48	116.61	119.90
80	6	509	G	OP1-P-O3'	5.48	117.26	105.20
80	6	785	U	OP1-P-OP2	-5.48	111.38	119.60
80	6	892	A	C5-C6-N6	5.48	128.09	123.70
80	6	1651	A	N1-C2-N3	5.48	132.04	129.30
85	5	777	U	N1-C2-O2	-5.48	118.96	122.80
85	5	1146	C	C4-C5-C6	5.48	120.14	117.40
85	5	1293	U	O5'-P-OP2	5.48	117.28	110.70
85	5	1383	G	O4'-C1'-N9	5.48	112.58	108.20
85	5	1402	C	C5-C6-N1	-5.48	118.26	121.00
85	5	1636	U	N1-C2-O2	-5.48	118.96	122.80
85	5	1845	G	N3-C4-C5	-5.48	125.86	128.60
85	5	1922	A	OP1-P-O3'	-5.48	93.14	105.20
85	5	2408	U	OP1-P-OP2	5.48	127.83	119.60
85	5	2414	G	O5'-P-OP1	-5.48	100.77	105.70
85	5	3046	A	N3-C4-C5	-5.48	122.96	126.80
85	5	3170	A	N9-C4-C5	5.48	107.99	105.80
37	7	28	C	C6-N1-C2	-5.48	118.11	120.30
37	7	121	U	C5-C4-O4	-5.48	122.61	125.90
1	2	502	U	C6-N1-C2	5.48	124.29	121.00
1	2	685	G	C4-N9-C1'	5.48	133.62	126.50
1	2	1582	C	N3-C2-O2	-5.48	118.06	121.90
36	1	7	C	C5-C6-N1	-5.48	118.26	121.00
36	1	1488	G	N1-C6-O6	-5.48	116.61	119.90
36	1	1784	G	N3-C4-C5	5.48	131.34	128.60
36	1	3291	G	N7-C8-N9	-5.48	110.36	113.10
38	4	68	G	N3-C2-N2	-5.48	116.06	119.90
56	N0	26	ARG	NE-CZ-NH1	-5.48	117.56	120.30
80	6	47	A	OP1-P-O3'	5.48	117.26	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	302	U	P-O3'-C3'	-5.48	113.12	119.70
80	6	609	U	N3-C4-O4	-5.48	115.56	119.40
80	6	792	U	C5-C4-O4	5.48	129.19	125.90
80	6	834	G	C4-C5-N7	5.48	112.99	110.80
85	5	158	G	C5-C6-O6	-5.48	125.31	128.60
85	5	515	C	C2-N3-C4	5.48	122.64	119.90
85	5	1314	C	N3-C2-O2	-5.48	118.06	121.90
85	5	2262	A	O5'-P-OP1	5.48	117.28	110.70
85	5	2583	C	N3-C4-C5	-5.48	119.71	121.90
85	5	2706	G	N1-C2-N2	-5.48	111.27	116.20
85	5	3098	G	N1-C2-N3	-5.48	120.61	123.90
37	7	5	G	N1-C2-N3	5.48	127.19	123.90
37	7	29	C	N3-C4-C5	5.48	124.09	121.90
38	8	151	C	C5-C6-N1	-5.48	118.26	121.00
89	p0	76	LEU	CA-CB-CG	5.48	127.91	115.30
1	2	63	G	N1-C2-N3	5.48	127.19	123.90
1	2	955	G	N3-C2-N2	-5.48	116.06	119.90
36	1	228	U	C4-C5-C6	-5.48	116.41	119.70
36	1	353	G	N9-C1'-C2'	5.48	121.12	114.00
36	1	569	A	C5-N7-C8	5.48	106.64	103.90
36	1	1341	U	N1-C2-O2	-5.48	118.97	122.80
36	1	2370	G	C4-C5-C6	-5.48	115.51	118.80
36	1	2582	C	O5'-P-OP1	-5.48	100.77	105.70
36	1	2779	A	C5-C6-N1	-5.48	114.96	117.70
80	6	976	G	N1-C6-O6	5.48	123.19	119.90
85	5	336	A	C6-N1-C2	5.48	121.89	118.60
85	5	1697	A	OP2-P-O3'	5.48	117.25	105.20
85	5	1845	G	N1-C2-N3	5.48	127.19	123.90
85	5	2874	G	O5'-P-OP1	5.48	117.28	110.70
1	2	189	C	C5-C4-N4	-5.48	116.37	120.20
1	2	744	G	C5-C6-N1	-5.48	108.76	111.50
36	1	807	A	C8-N9-C4	5.48	107.99	105.80
36	1	1078	U	C4-C5-C6	5.48	122.99	119.70
36	1	1312	C	C4-C5-C6	5.48	120.14	117.40
36	1	2605	G	O5'-P-OP2	-5.48	100.77	105.70
36	1	3257	C	N3-C2-O2	-5.48	118.07	121.90
37	3	49	G	N3-C4-N9	5.48	129.29	126.00
80	6	1	U	O4'-C1'-N1	5.48	112.58	108.20
80	6	250	C	OP1-P-OP2	5.48	127.82	119.60
80	6	281	G	N1-C2-N3	-5.48	120.61	123.90
80	6	619	A	C4-C5-C6	-5.48	114.26	117.00
80	6	901	G	C6-C5-N7	-5.48	127.11	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	274	G	C4-C5-N7	-5.48	108.61	110.80
85	5	726	G	O5'-P-OP1	-5.48	100.77	105.70
85	5	730	C	N3-C4-C5	-5.48	119.71	121.90
85	5	843	A	N1-C6-N6	5.48	121.89	118.60
85	5	1012	G	N3-C2-N2	-5.48	116.07	119.90
85	5	1070	U	O5'-P-OP1	5.48	117.27	110.70
85	5	1607	U	C6-N1-C1'	-5.48	113.53	121.20
37	7	31	U	C2-N3-C4	5.48	130.29	127.00
37	7	55	A	N1-C6-N6	-5.48	115.31	118.60
43	16	66	SER	C-N-CA	-5.48	110.80	122.30
1	2	1310	C	N3-C2-O2	5.48	125.73	121.90
36	1	214	G	O5'-P-OP2	-5.48	100.77	105.70
36	1	714	G	N1-C2-N3	5.48	127.19	123.90
36	1	1646	G	C5-C6-O6	5.48	131.89	128.60
36	1	1923	C	N1-C2-O2	-5.48	115.61	118.90
36	1	2992	U	N3-C2-O2	5.48	126.03	122.20
85	5	23	A	C4-C5-N7	5.48	113.44	110.70
85	5	781	G	C8-N9-C4	-5.48	104.21	106.40
85	5	1150	A	C8-N9-C4	5.48	107.99	105.80
85	5	1379	G	C5-C6-O6	-5.48	125.31	128.60
37	7	11	A	N7-C8-N9	5.48	116.54	113.80
1	2	412	A	C4-C5-C6	5.47	119.74	117.00
1	2	658	C	C5-C6-N1	5.47	123.74	121.00
36	1	165	A	O5'-P-OP1	5.47	117.27	110.70
36	1	244	G	O5'-P-OP2	-5.47	100.77	105.70
36	1	494	G	N7-C8-N9	-5.47	110.36	113.10
36	1	709	A	OP1-P-O3'	-5.47	93.16	105.20
36	1	809	G	N3-C4-C5	5.47	131.34	128.60
36	1	859	G	C4-N9-C1'	5.47	133.62	126.50
36	1	1517	G	C6-N1-C2	-5.47	121.81	125.10
36	1	1642	A	N9-C4-C5	5.47	107.99	105.80
36	1	2760	C	N1-C2-O2	-5.47	115.61	118.90
36	1	2898	G	N9-C4-C5	5.47	107.59	105.40
36	1	2947	G	N3-C4-C5	5.47	131.34	128.60
36	1	3065	G	N3-C2-N2	-5.47	116.07	119.90
36	1	3275	U	N1-C2-O2	5.47	126.63	122.80
37	3	33	U	N3-C4-O4	-5.47	115.57	119.40
80	6	235	G	N9-C4-C5	5.47	107.59	105.40
80	6	427	C	C6-N1-C2	-5.47	118.11	120.30
80	6	539	G	C4-C5-N7	5.47	112.99	110.80
80	6	1107	G	C5-N7-C8	-5.47	101.56	104.30
85	5	912	G	N1-C6-O6	5.47	123.18	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1167	U	N3-C2-O2	-5.47	118.37	122.20
85	5	1307	G	O5'-P-OP1	-5.47	100.77	105.70
85	5	1561	G	O4'-C1'-N9	5.47	112.58	108.20
85	5	1757	A	N9-C4-C5	5.47	107.99	105.80
85	5	2107	A	N1-C6-N6	-5.47	115.31	118.60
85	5	2253	G	N3-C4-C5	-5.47	125.86	128.60
85	5	2711	C	C5-C4-N4	-5.47	116.37	120.20
85	5	3354	U	C2-N3-C4	5.47	130.28	127.00
59	n3	137	VAL	CG1-CB-CG2	-5.47	102.14	110.90
1	2	717	A	N7-C8-N9	5.47	116.54	113.80
36	1	1776	G	C5-C6-O6	-5.47	125.32	128.60
36	1	1881	A	N1-C6-N6	5.47	121.88	118.60
36	1	1911	A	C8-N9-C4	-5.47	103.61	105.80
36	1	2157	G	O5'-P-OP2	-5.47	100.78	105.70
36	1	2730	G	C8-N9-C4	-5.47	104.21	106.40
37	3	109	G	O5'-P-OP1	-5.47	100.78	105.70
38	4	31	G	C6-C5-N7	-5.47	127.12	130.40
38	4	146	U	N3-C4-C5	-5.47	111.32	114.60
41	L4	52	VAL	CG1-CB-CG2	-5.47	102.14	110.90
69	O3	40	ASP	CB-CG-OD1	-5.47	113.38	118.30
80	6	194	U	C5-C4-O4	-5.47	122.62	125.90
80	6	515	A	C5-C6-N1	5.47	120.44	117.70
80	6	1477	G	N1-C6-O6	5.47	123.18	119.90
85	5	197	G	N7-C8-N9	5.47	115.84	113.10
85	5	659	G	OP2-P-O3'	5.47	117.24	105.20
85	5	804	C	C5-C6-N1	5.47	123.74	121.00
85	5	1003	A	N1-C2-N3	5.47	132.04	129.30
85	5	1006	A	OP1-P-OP2	5.47	127.81	119.60
85	5	1140	G	C8-N9-C1'	-5.47	119.89	127.00
85	5	1177	G	N1-C2-N2	-5.47	111.28	116.20
85	5	1701	C	C5-C4-N4	-5.47	116.37	120.20
85	5	2215	A	N1-C2-N3	5.47	132.04	129.30
85	5	2534	G	C8-N9-C4	5.47	108.59	106.40
85	5	2817	A	N1-C6-N6	5.47	121.88	118.60
1	2	502	U	N1-C2-O2	5.47	126.63	122.80
36	1	1094	U	N3-C2-O2	-5.47	118.37	122.20
36	1	1147	G	N3-C2-N2	-5.47	116.07	119.90
36	1	1868	G	C6-N1-C2	-5.47	121.82	125.10
36	1	1928	G	N1-C6-O6	-5.47	116.62	119.90
36	1	2185	G	OP1-P-OP2	5.47	127.81	119.60
36	1	2400	G	C6-N1-C2	-5.47	121.82	125.10
36	1	2599	U	N3-C4-C5	-5.47	111.32	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	3	99	G	C8-N9-C4	-5.47	104.21	106.40
80	6	446	A	C5-N7-C8	-5.47	101.16	103.90
80	6	578	U	C4-C5-C6	5.47	122.98	119.70
80	6	917	U	C6-N1-C2	-5.47	117.72	121.00
85	5	367	A	C2-N3-C4	-5.47	107.86	110.60
85	5	387	A	O5'-P-OP1	5.47	117.27	110.70
85	5	412	G	OP1-P-O3'	5.47	117.23	105.20
85	5	437	G	N9-C1'-C2'	-5.47	105.98	112.00
85	5	1457	U	N3-C4-O4	5.47	123.23	119.40
85	5	2313	A	C5-C6-N1	-5.47	114.96	117.70
38	8	140	G	N1-C6-O6	5.47	123.18	119.90
1	2	232	U	C6-N1-C2	-5.47	117.72	121.00
1	2	739	A	O5'-P-OP2	-5.47	100.78	105.70
1	2	1112	U	N3-C2-O2	-5.47	118.37	122.20
1	2	1257	C	N3-C4-N4	-5.47	114.17	118.00
36	1	594	U	OP1-P-O3'	5.47	117.23	105.20
36	1	858	A	N3-C4-C5	-5.47	122.97	126.80
36	1	2508	U	N3-C4-C5	-5.47	111.32	114.60
36	1	2675	C	C6-N1-C2	5.47	122.49	120.30
61	N5	113	LEU	CB-CG-CD2	-5.47	101.70	111.00
80	6	60	U	O5'-P-OP1	-5.47	100.78	105.70
80	6	111	U	OP1-P-OP2	5.47	127.81	119.60
80	6	445	A	C8-N9-C4	-5.47	103.61	105.80
80	6	626	U	N1-C2-O2	5.47	126.63	122.80
80	6	1137	A	C6-N1-C2	5.47	121.88	118.60
80	6	1669	U	N3-C4-O4	5.47	123.23	119.40
85	5	325	A	N3-C4-C5	-5.47	122.97	126.80
85	5	594	U	P-O3'-C3'	-5.47	113.14	119.70
85	5	658	G	C4-C5-C6	5.47	122.08	118.80
85	5	1934	G	OP1-P-OP2	5.47	127.80	119.60
85	5	2599	U	C2-N3-C4	-5.47	123.72	127.00
85	5	2901	G	N3-C4-N9	5.47	129.28	126.00
85	5	3296	A	N1-C6-N6	5.47	121.88	118.60
37	7	1	G	O5'-P-OP1	-5.47	100.78	105.70
37	7	33	U	C6-N1-C1'	-5.47	113.54	121.20
37	7	61	G	C5-C6-N1	5.47	114.23	111.50
78	q2	70	LEU	CA-CB-CG	5.47	127.88	115.30
1	2	322	G	C4-C5-N7	-5.47	108.61	110.80
1	2	1028	C	C4-C5-C6	5.47	120.13	117.40
1	2	1155	G	N1-C2-N3	5.47	127.18	123.90
36	1	642	U	O5'-P-OP2	-5.47	100.78	105.70
36	1	880	G	N3-C4-N9	-5.47	122.72	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1738	C	C5-C4-N4	5.47	124.03	120.20
36	1	2958	A	OP1-P-O3'	5.47	117.23	105.20
36	1	3024	A	N7-C8-N9	5.47	116.53	113.80
37	3	120	C	OP2-P-O3'	5.47	117.23	105.20
85	5	1194	G	N9-C4-C5	5.47	107.59	105.40
85	5	2706	G	N1-C2-N3	5.47	127.18	123.90
85	5	3026	G	N3-C2-N2	-5.47	116.07	119.90
85	5	3234	A	C2-N3-C4	5.47	113.33	110.60
37	7	84	A	C4-N9-C1'	5.47	136.14	126.30
38	8	93	U	N3-C4-O4	-5.47	115.57	119.40
52	m6	58	LEU	CB-CG-CD1	-5.47	101.70	111.00
1	2	1091	G	N7-C8-N9	5.47	115.83	113.10
1	2	1095	G	N1-C2-N3	5.47	127.18	123.90
18	C6	40	GLU	C-N-CA	5.47	144.96	122.00
36	1	32	U	N3-C4-O4	5.47	123.23	119.40
36	1	139	G	P-O3'-C3'	-5.47	113.14	119.70
36	1	651	G	OP2-P-O3'	5.47	117.23	105.20
36	1	761	A	N3-C4-C5	5.47	130.63	126.80
36	1	882	A	C6-C5-N7	-5.47	128.47	132.30
36	1	990	U	O5'-P-OP2	-5.47	100.78	105.70
36	1	1465	A	N1-C6-N6	-5.47	115.32	118.60
36	1	2100	A	C5-C6-N1	5.47	120.43	117.70
36	1	3021	A	C6-N1-C2	-5.47	115.32	118.60
36	1	3233	C	N3-C2-O2	5.47	125.73	121.90
36	1	3264	G	N9-C4-C5	-5.47	103.21	105.40
36	1	3282	U	C2-N3-C4	5.47	130.28	127.00
38	4	56	G	N9-C4-C5	-5.47	103.21	105.40
80	6	689	G	C5-C6-N1	-5.47	108.77	111.50
80	6	809	A	C5-C6-N6	-5.47	119.33	123.70
85	5	379	C	C5-C4-N4	-5.47	116.37	120.20
85	5	797	U	N1-C2-O2	-5.47	118.97	122.80
85	5	941	G	OP2-P-O3'	-5.47	93.17	105.20
85	5	996	A	C4-C5-C6	5.47	119.73	117.00
85	5	998	A	C5-C6-N6	5.47	128.07	123.70
85	5	1481	A	C4-C5-C6	5.47	119.73	117.00
85	5	1931	U	OP2-P-O3'	5.47	117.22	105.20
85	5	2388	U	OP2-P-O3'	5.47	117.23	105.20
85	5	2637	A	O4'-C1'-N9	-5.47	103.83	108.20
85	5	2815	G	N9-C4-C5	5.47	107.59	105.40
85	5	3136	G	O5'-P-OP2	-5.47	100.78	105.70
38	8	70	G	N9-C4-C5	5.47	107.59	105.40
86	18	57	ARG	NE-CZ-NH1	5.47	123.03	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	m0	69	ARG	NE-CZ-NH1	5.47	123.03	120.30
1	2	420	A	C8-N9-C4	-5.46	103.61	105.80
1	2	528	U	C5-C4-O4	5.46	129.18	125.90
1	2	610	G	N1-C6-O6	5.46	123.18	119.90
1	2	794	A	N9-C4-C5	5.46	107.99	105.80
1	2	1646	G	C4-C5-N7	5.46	112.98	110.80
36	1	152	U	C6-N1-C2	-5.46	117.72	121.00
36	1	846	A	C6-C5-N7	-5.46	128.47	132.30
36	1	1328	C	N1-C2-N3	5.46	123.03	119.20
36	1	1538	G	C2-N3-C4	-5.46	109.17	111.90
36	1	1597	C	N3-C4-N4	5.46	121.83	118.00
36	1	1633	C	N3-C2-O2	-5.46	118.08	121.90
36	1	2108	C	N3-C4-N4	-5.46	114.17	118.00
36	1	2237	C	C6-N1-C1'	-5.46	114.24	120.80
36	1	2915	U	O5'-P-OP2	-5.46	100.78	105.70
36	1	3111	U	C5-C6-N1	5.46	125.43	122.70
80	6	652	G	N3-C4-C5	5.46	131.33	128.60
85	5	591	G	C4-C5-C6	5.46	122.08	118.80
85	5	697	A	C8-N9-C4	-5.46	103.61	105.80
85	5	1807	G	C5-C6-N1	-5.46	108.77	111.50
85	5	3057	U	N3-C4-C5	5.46	117.88	114.60
85	5	3176	G	N1-C2-N2	-5.46	111.28	116.20
85	5	3262	U	OP1-P-O3'	5.46	117.22	105.20
37	7	31	U	O4'-C1'-N1	5.46	112.57	108.20
37	7	57	G	C6-C5-N7	-5.46	127.12	130.40
61	n5	42	ARG	NE-CZ-NH1	-5.46	117.57	120.30
1	2	972	U	O5'-P-OP2	-5.46	100.78	105.70
1	2	1424	C	C2-N3-C4	5.46	122.63	119.90
36	1	320	G	C6-N1-C2	-5.46	121.82	125.10
36	1	781	G	N7-C8-N9	5.46	115.83	113.10
36	1	1479	U	N3-C4-O4	5.46	123.22	119.40
36	1	2921	U	N1-C2-N3	5.46	118.18	114.90
38	4	15	G	C6-N1-C2	-5.46	121.82	125.10
80	6	256	A	C6-C5-N7	-5.46	128.48	132.30
85	5	1044	U	C5-C6-N1	5.46	125.43	122.70
85	5	1515	A	C5-C6-N6	-5.46	119.33	123.70
85	5	2276	G	C6-N1-C2	-5.46	121.82	125.10
85	5	2806	U	O5'-P-OP2	-5.46	100.78	105.70
85	5	3376	A	N9-C4-C5	5.46	107.98	105.80
1	2	410	A	N3-C4-C5	5.46	130.62	126.80
1	2	1225	A	C8-N9-C4	-5.46	103.62	105.80
1	2	1535	U	N1-C2-N3	-5.46	111.62	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1740	G	OP1-P-OP2	-5.46	111.41	119.60
36	1	371	G	N1-C2-N3	5.46	127.18	123.90
36	1	383	G	N3-C2-N2	5.46	123.72	119.90
36	1	726	G	OP1-P-OP2	5.46	127.79	119.60
36	1	1169	A	C5-C6-N6	5.46	128.07	123.70
36	1	1363	A	C8-N9-C4	-5.46	103.62	105.80
36	1	1508	C	C5-C4-N4	5.46	124.02	120.20
36	1	1519	G	C6-N1-C2	-5.46	121.82	125.10
36	1	1535	A	OP2-P-O3'	5.46	117.22	105.20
36	1	3183	A	C2-N3-C4	-5.46	107.87	110.60
36	1	3261	C	C5-C6-N1	-5.46	118.27	121.00
80	6	564	G	N7-C8-N9	5.46	115.83	113.10
80	6	861	U	C5-C6-N1	5.46	125.43	122.70
80	6	1637	C	C6-N1-C2	5.46	122.48	120.30
80	6	1743	U	N3-C2-O2	-5.46	118.38	122.20
85	5	323	A	O5'-P-OP2	-5.46	100.78	105.70
85	5	491	C	C2-N1-C1'	-5.46	112.79	118.80
85	5	604	G	OP1-P-OP2	5.46	127.79	119.60
85	5	631	U	OP2-P-O3'	5.46	117.22	105.20
85	5	856	G	N1-C2-N2	-5.46	111.28	116.20
85	5	1080	A	OP1-P-O3'	5.46	117.21	105.20
85	5	1178	G	O5'-P-OP2	-5.46	100.78	105.70
85	5	1575	A	C4-C5-N7	5.46	113.43	110.70
85	5	2830	G	P-O3'-C3'	-5.46	113.15	119.70
85	5	2865	U	O5'-P-OP2	5.46	117.25	110.70
37	7	48	U	C4-C5-C6	5.46	122.98	119.70
1	2	1424	C	N3-C2-O2	5.46	125.72	121.90
1	2	1774	A	C6-C5-N7	-5.46	128.48	132.30
36	1	831	G	O5'-P-OP1	-5.46	100.79	105.70
36	1	1291	A	O5'-P-OP2	5.46	117.25	110.70
36	1	2337	C	C5-C4-N4	-5.46	116.38	120.20
36	1	2643	A	N9-C4-C5	-5.46	103.62	105.80
36	1	2982	A	N3-C4-N9	5.46	131.77	127.40
38	4	82	U	N1-C2-N3	-5.46	111.62	114.90
38	4	123	G	C2-N3-C4	5.46	114.63	111.90
53	M7	7	THR	CA-CB-CG2	-5.46	104.75	112.40
80	6	569	C	O5'-P-OP2	-5.46	100.79	105.70
80	6	878	G	C8-N9-C4	-5.46	104.22	106.40
80	6	1734	U	C5-C6-N1	5.46	125.43	122.70
85	5	706	A	O5'-P-OP1	-5.46	100.79	105.70
85	5	841	A	C2-N3-C4	-5.46	107.87	110.60
85	5	2620	G	N3-C2-N2	-5.46	116.08	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	m8	130	ARG	NE-CZ-NH1	5.46	123.03	120.30
1	2	485	A	N9-C4-C5	-5.46	103.62	105.80
1	2	1189	U	N1-C2-O2	5.46	126.62	122.80
1	2	1397	U	N1-C2-O2	5.46	126.62	122.80
36	1	514	G	N1-C6-O6	5.46	123.17	119.90
36	1	645	A	C5-C6-N6	5.46	128.07	123.70
36	1	726	G	OP1-P-O3'	5.46	117.21	105.20
36	1	1116	G	O5'-P-OP1	-5.46	100.79	105.70
36	1	1155	C	O5'-P-OP2	5.46	117.25	110.70
36	1	1218	U	C5-C4-O4	5.46	129.18	125.90
36	1	1858	A	C4-N9-C1'	5.46	136.13	126.30
36	1	2247	G	C4-C5-N7	-5.46	108.62	110.80
36	1	2787	G	N1-C2-N2	5.46	121.11	116.20
36	1	3025	C	N3-C4-N4	-5.46	114.18	118.00
36	1	3110	C	N1-C2-N3	5.46	123.02	119.20
36	1	3334	U	N3-C4-C5	-5.46	111.33	114.60
80	6	285	G	N1-C6-O6	5.46	123.17	119.90
80	6	446	A	OP1-P-OP2	-5.46	111.41	119.60
80	6	914	G	OP1-P-O3'	5.46	117.21	105.20
80	6	1627	U	C4-C5-C6	5.46	122.97	119.70
80	6	1720	G	N3-C2-N2	5.46	123.72	119.90
85	5	141	C	C4-C5-C6	-5.46	114.67	117.40
85	5	290	G	C5-N7-C8	5.46	107.03	104.30
85	5	326	U	OP2-P-O3'	5.46	117.21	105.20
85	5	1161	G	N1-C2-N3	-5.46	120.62	123.90
85	5	2156	C	C2-N1-C1'	-5.46	112.80	118.80
85	5	2672	G	OP2-P-O3'	5.46	117.21	105.20
85	5	2865	U	O4'-C1'-N1	5.46	112.57	108.20
85	5	2872	A	N3-C4-N9	-5.46	123.03	127.40
85	5	2988	C	C4-C5-C6	5.46	120.13	117.40
85	5	2993	G	OP2-P-O3'	5.46	117.21	105.20
85	5	3052	G	N3-C2-N2	-5.46	116.08	119.90
78	q2	54	THR	CA-CB-CG2	-5.46	104.76	112.40
1	2	169	A	C4-C5-N7	5.46	113.43	110.70
1	2	469	C	C2-N3-C4	-5.46	117.17	119.90
1	2	865	U	N3-C2-O2	5.46	126.02	122.20
36	1	98	G	C6-C5-N7	-5.46	127.13	130.40
36	1	516	A	N3-C4-C5	5.46	130.62	126.80
36	1	1303	A	C5-C6-N6	5.46	128.07	123.70
36	1	1593	A	N1-C2-N3	5.46	132.03	129.30
36	1	1754	G	OP1-P-OP2	5.46	127.78	119.60
36	1	3075	G	OP1-P-OP2	-5.46	111.42	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	3	117	A	C5-C6-N1	-5.46	114.97	117.70
80	6	137	U	OP1-P-O3'	5.46	117.20	105.20
80	6	632	U	O5'-P-OP1	-5.46	100.79	105.70
80	6	944	A	C5-C6-N1	5.46	120.43	117.70
85	5	64	G	C2-N3-C4	-5.46	109.17	111.90
85	5	89	A	O5'-P-OP1	5.46	117.25	110.70
85	5	107	A	N7-C8-N9	5.46	116.53	113.80
85	5	1072	G	C2-N3-C4	-5.46	109.17	111.90
85	5	1441	G	C6-C5-N7	-5.46	127.13	130.40
85	5	1689	U	C2-N3-C4	5.46	130.27	127.00
85	5	1895	A	O5'-P-OP2	5.46	117.25	110.70
85	5	2198	A	N1-C2-N3	5.46	132.03	129.30
85	5	2371	G	N7-C8-N9	-5.46	110.37	113.10
85	5	2852	C	OP1-P-OP2	5.46	127.78	119.60
37	7	37	G	C5-N7-C8	5.46	107.03	104.30
37	7	68	C	N3-C4-C5	-5.46	119.72	121.90
36	1	16	A	O5'-P-OP2	-5.46	100.79	105.70
36	1	416	A	O5'-P-OP1	5.46	117.25	110.70
36	1	1190	A	N1-C2-N3	-5.46	126.57	129.30
36	1	2222	A	C6-C5-N7	-5.46	128.48	132.30
36	1	2254	U	C4-C5-C6	5.46	122.97	119.70
36	1	2508	U	N3-C4-O4	5.46	123.22	119.40
36	1	2958	A	C5-C6-N1	5.46	120.43	117.70
80	6	195	G	N3-C2-N2	5.46	123.72	119.90
80	6	898	A	N9-C4-C5	5.46	107.98	105.80
80	6	917	U	N3-C4-O4	5.46	123.22	119.40
80	6	1384	A	N7-C8-N9	5.46	116.53	113.80
80	6	1572	G	N3-C2-N2	-5.46	116.08	119.90
85	5	1409	G	C6-N1-C2	-5.46	121.83	125.10
85	5	1479	U	OP1-P-O3'	5.46	117.20	105.20
1	2	207	U	C5-C4-O4	5.45	129.17	125.90
1	2	761	G	N3-C4-C5	5.45	131.33	128.60
1	2	968	G	C5-C6-N1	5.45	114.23	111.50
36	1	44	U	C2-N3-C4	-5.45	123.73	127.00
36	1	409	A	O5'-P-OP2	-5.45	100.79	105.70
36	1	661	G	P-O3'-C3'	5.45	126.24	119.70
36	1	1339	C	C4-C5-C6	5.45	120.13	117.40
36	1	1476	G	N1-C6-O6	-5.45	116.63	119.90
36	1	2522	G	C2-N3-C4	5.45	114.63	111.90
36	1	2929	C	C2-N1-C1'	5.45	124.80	118.80
36	1	2991	A	N1-C2-N3	5.45	132.03	129.30
36	1	3019	U	C6-N1-C2	-5.45	117.73	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3245	A	N3-C4-C5	5.45	130.62	126.80
36	1	3342	A	C2-N3-C4	-5.45	107.87	110.60
37	3	17	A	C4-C5-C6	5.45	119.73	117.00
38	4	3	A	N1-C6-N6	5.45	121.87	118.60
80	6	167	U	C6-N1-C2	-5.45	117.73	121.00
80	6	235	G	N7-C8-N9	5.45	115.83	113.10
80	6	553	G	N3-C2-N2	5.45	123.72	119.90
80	6	563	U	C5-C6-N1	5.45	125.43	122.70
80	6	1199	G	N9-C4-C5	-5.45	103.22	105.40
80	6	1356	U	N1-C2-O2	5.45	126.62	122.80
80	6	1518	C	O5'-P-OP2	5.45	117.25	110.70
85	5	116	A	C4-C5-N7	-5.45	107.97	110.70
85	5	291	C	N3-C4-N4	-5.45	114.18	118.00
85	5	705	A	C8-N9-C4	5.45	107.98	105.80
85	5	1174	G	O5'-P-OP2	5.45	117.24	110.70
85	5	1261	G	C5-C6-N1	5.45	114.23	111.50
85	5	1410	U	OP2-P-O3'	5.45	117.20	105.20
85	5	1419	A	N1-C6-N6	5.45	121.87	118.60
85	5	1611	G	C4-C5-C6	5.45	122.07	118.80
85	5	1744	G	OP2-P-O3'	5.45	117.20	105.20
85	5	2183	A	OP2-P-O3'	5.45	117.20	105.20
85	5	3244	A	C2-N3-C4	5.45	113.33	110.60
37	7	74	C	C5-C4-N4	5.45	124.02	120.20
38	8	16	G	O5'-P-OP1	5.45	117.24	110.70
1	2	23	G	N7-C8-N9	5.45	115.83	113.10
1	2	1489	G	C5-C6-N1	5.45	114.23	111.50
1	2	1583	A	C4-C5-N7	5.45	113.43	110.70
36	1	2386	A	C6-C5-N7	-5.45	128.48	132.30
80	6	102	U	N1-C2-O2	-5.45	118.98	122.80
80	6	159	U	N3-C2-O2	-5.45	118.38	122.20
80	6	444	C	O5'-P-OP2	5.45	117.24	110.70
85	5	214	G	C4-C5-N7	5.45	112.98	110.80
85	5	272	G	N1-C6-O6	-5.45	116.63	119.90
85	5	430	U	C2-N3-C4	-5.45	123.73	127.00
85	5	1059	G	C6-N1-C2	-5.45	121.83	125.10
85	5	1851	G	C4-C5-C6	5.45	122.07	118.80
85	5	3369	G	C4-C5-N7	5.45	112.98	110.80
1	2	361	C	P-O3'-C3'	5.45	126.24	119.70
1	2	525	A	C5-N7-C8	-5.45	101.17	103.90
1	2	1414	C	C4-C5-C6	-5.45	114.67	117.40
36	1	74	G	OP1-P-OP2	5.45	127.78	119.60
36	1	112	U	OP2-P-O3'	5.45	117.19	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	368	G	C5-C6-N1	-5.45	108.78	111.50
36	1	937	G	OP2-P-O3'	5.45	117.19	105.20
36	1	1581	C	C2-N1-C1'	5.45	124.79	118.80
36	1	1762	C	N3-C4-N4	5.45	121.82	118.00
36	1	2174	G	OP2-P-O3'	-5.45	93.21	105.20
36	1	2396	G	N1-C6-O6	5.45	123.17	119.90
36	1	3212	C	C2-N1-C1'	-5.45	112.80	118.80
37	3	79	A	C4-C5-C6	5.45	119.72	117.00
80	6	4	C	N1-C2-O2	5.45	122.17	118.90
80	6	443	C	N3-C4-C5	-5.45	119.72	121.90
80	6	1087	A	OP1-P-O3'	5.45	117.19	105.20
80	6	1724	U	N3-C4-C5	5.45	117.87	114.60
85	5	75	G	C6-C5-N7	-5.45	127.13	130.40
85	5	331	G	OP2-P-O3'	5.45	117.19	105.20
85	5	1043	C	C2-N3-C4	-5.45	117.17	119.90
85	5	1106	G	C6-C5-N7	-5.45	127.13	130.40
85	5	1418	A	N9-C4-C5	5.45	107.98	105.80
85	5	1728	G	C6-N1-C2	-5.45	121.83	125.10
85	5	2621	G	C5-C6-O6	-5.45	125.33	128.60
85	5	2853	A	OP2-P-O3'	5.45	117.19	105.20
85	5	2933	A	O5'-P-OP2	-5.45	100.80	105.70
85	5	2935	U	C2-N3-C4	5.45	130.27	127.00
85	5	3004	C	C5-C4-N4	-5.45	116.39	120.20
38	8	88	A	C2-N3-C4	-5.45	107.87	110.60
1	2	410	A	C4-C5-N7	5.45	113.42	110.70
1	2	743	A	C8-N9-C4	5.45	107.98	105.80
36	1	30	G	N3-C4-N9	-5.45	122.73	126.00
36	1	270	U	N3-C4-O4	5.45	123.21	119.40
36	1	926	A	N1-C6-N6	-5.45	115.33	118.60
36	1	1349	G	OP1-P-OP2	-5.45	111.43	119.60
36	1	1629	U	N3-C4-C5	-5.45	111.33	114.60
36	1	1720	U	C6-N1-C2	5.45	124.27	121.00
36	1	1882	G	N1-C2-N3	5.45	127.17	123.90
36	1	2281	A	N1-C6-N6	5.45	121.87	118.60
36	1	2399	A	OP1-P-OP2	-5.45	111.43	119.60
36	1	2847	A	N1-C2-N3	5.45	132.02	129.30
36	1	2976	A	C6-N1-C2	-5.45	115.33	118.60
36	1	3188	G	N3-C4-C5	5.45	131.32	128.60
80	6	92	A	N1-C6-N6	5.45	121.87	118.60
80	6	815	G	N1-C2-N3	-5.45	120.63	123.90
80	6	880	C	OP1-P-OP2	-5.45	111.43	119.60
80	6	1157	A	OP2-P-O3'	5.45	117.19	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1558	U	N3-C4-C5	-5.45	111.33	114.60
85	5	517	G	N1-C2-N2	-5.45	111.30	116.20
85	5	721	G	C8-N9-C4	-5.45	104.22	106.40
85	5	779	G	N1-C6-O6	5.45	123.17	119.90
85	5	780	A	C6-N1-C2	5.45	121.87	118.60
85	5	996	A	C4-C5-N7	-5.45	107.98	110.70
85	5	1212	A	C5-C6-N1	5.45	120.42	117.70
85	5	2224	A	O5'-P-OP2	-5.45	100.80	105.70
85	5	2269	U	O5'-P-OP1	-5.45	100.80	105.70
85	5	2654	C	N3-C4-C5	5.45	124.08	121.90
85	5	2908	G	C8-N9-C1'	5.45	134.08	127.00
1	2	103	A	N7-C8-N9	5.45	116.52	113.80
1	2	412	A	N9-C4-C5	5.45	107.98	105.80
1	2	577	G	C6-N1-C2	5.45	128.37	125.10
36	1	159	A	C6-C5-N7	-5.45	128.49	132.30
36	1	161	G	N9-C4-C5	-5.45	103.22	105.40
36	1	1180	A	N1-C6-N6	-5.45	115.33	118.60
36	1	2320	A	C5-C6-N6	5.45	128.06	123.70
36	1	2727	A	C5-C6-N6	5.45	128.06	123.70
36	1	3349	C	C2-N3-C4	5.45	122.62	119.90
38	4	31	G	OP1-P-OP2	5.45	127.77	119.60
38	4	55	U	OP2-P-O3'	-5.45	93.22	105.20
80	6	889	U	O5'-P-OP1	-5.45	100.80	105.70
80	6	1791	A	C2-N3-C4	-5.45	107.88	110.60
85	5	116	A	C5-C6-N6	5.45	128.06	123.70
85	5	2512	C	OP1-P-OP2	-5.45	111.43	119.60
37	7	81	U	N3-C4-C5	-5.45	111.33	114.60
36	1	251	G	C5-C6-N1	5.45	114.22	111.50
36	1	662	U	OP1-P-O3'	5.45	117.18	105.20
36	1	1427	U	C4-C5-C6	5.45	122.97	119.70
36	1	1552	G	N9-C4-C5	5.45	107.58	105.40
36	1	1909	A	N1-C6-N6	-5.45	115.33	118.60
36	1	2206	G	N3-C2-N2	5.45	123.71	119.90
36	1	2280	A	O5'-P-OP2	-5.45	100.80	105.70
36	1	2375	G	O5'-P-OP1	-5.45	100.80	105.70
36	1	2666	C	C6-N1-C2	-5.45	118.12	120.30
38	4	152	G	C4-C5-C6	5.45	122.07	118.80
80	6	21	U	C5-C4-O4	-5.45	122.63	125.90
80	6	94	U	C2-N1-C1'	-5.45	111.16	117.70
80	6	1175	U	OP1-P-OP2	5.45	127.77	119.60
85	5	14	U	N1-C2-N3	5.45	118.17	114.90
85	5	170	G	C4-C5-C6	5.45	122.07	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1185	C	O5'-P-OP1	5.45	117.23	110.70
85	5	1187	C	C4-C5-C6	-5.45	114.68	117.40
85	5	1273	A	N3-C4-C5	5.45	130.61	126.80
85	5	1637	A	O5'-P-OP1	5.45	117.23	110.70
85	5	2384	A	C8-N9-C4	-5.45	103.62	105.80
85	5	2610	G	C5-N7-C8	-5.45	101.58	104.30
85	5	2905	U	C2-N1-C1'	5.45	124.23	117.70
85	5	3087	A	C8-N9-C1'	-5.45	117.90	127.70
1	2	490	C	N3-C4-C5	-5.44	119.72	121.90
1	2	1249	U	N3-C4-O4	5.44	123.21	119.40
36	1	60	A	C8-N9-C4	-5.44	103.62	105.80
36	1	398	A	OP2-P-O3'	5.44	117.18	105.20
36	1	1370	G	C4-C5-C6	5.44	122.07	118.80
36	1	2306	C	C2-N3-C4	5.44	122.62	119.90
36	1	2906	C	OP1-P-O3'	-5.44	93.22	105.20
36	1	3099	C	N1-C2-O2	-5.44	115.63	118.90
36	1	3346	U	O5'-P-OP2	-5.44	100.80	105.70
80	6	842	C	C2-N3-C4	5.44	122.62	119.90
85	5	170	G	N3-C4-N9	5.44	129.27	126.00
85	5	200	C	OP1-P-O3'	5.44	117.18	105.20
85	5	1109	U	OP2-P-O3'	-5.44	93.22	105.20
85	5	1463	U	O5'-P-OP1	5.44	117.23	110.70
85	5	1739	U	C6-N1-C1'	5.44	128.82	121.20
85	5	2535	A	N9-C4-C5	-5.44	103.62	105.80
85	5	2602	G	C4-C5-C6	5.44	122.07	118.80
38	8	51	G	C6-C5-N7	-5.44	127.13	130.40
1	2	620	A	N1-C2-N3	5.44	132.02	129.30
1	2	1087	U	N3-C2-O2	5.44	126.01	122.20
36	1	494	G	C5-C6-O6	-5.44	125.33	128.60
36	1	912	G	N1-C2-N3	5.44	127.17	123.90
36	1	1071	U	C6-N1-C2	-5.44	117.73	121.00
36	1	1371	G	O4'-C1'-N9	-5.44	103.84	108.20
36	1	1548	C	C6-N1-C2	-5.44	118.12	120.30
36	1	1806	A	C5-C6-N6	-5.44	119.35	123.70
36	1	1949	G	N9-C4-C5	-5.44	103.22	105.40
36	1	2413	A	C6-N1-C2	-5.44	115.33	118.60
36	1	2759	U	C6-N1-C2	-5.44	117.73	121.00
36	1	2826	U	C5-C6-N1	5.44	125.42	122.70
36	1	3022	G	N3-C4-C5	-5.44	125.88	128.60
36	1	3027	A	C6-N1-C2	5.44	121.87	118.60
36	1	3084	C	N1-C2-N3	5.44	123.01	119.20
36	1	3332	U	C2-N3-C4	-5.44	123.73	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	3	2	G	C5-N7-C8	5.44	107.02	104.30
38	4	16	G	C6-C5-N7	5.44	133.66	130.40
69	O3	70	LYS	CD-CE-NZ	5.44	124.22	111.70
80	6	196	G	N9-C4-C5	-5.44	103.22	105.40
80	6	228	G	C5-N7-C8	5.44	107.02	104.30
80	6	286	C	C6-N1-C2	5.44	122.48	120.30
80	6	561	G	C4-C5-C6	5.44	122.06	118.80
80	6	581	U	O5'-P-OP2	-5.44	100.80	105.70
85	5	143	G	N1-C6-O6	5.44	123.17	119.90
85	5	206	G	O4'-C1'-N9	5.44	112.55	108.20
85	5	760	G	C5-C6-O6	-5.44	125.33	128.60
85	5	1900	A	OP1-P-OP2	5.44	127.77	119.60
85	5	2593	A	C5-C6-N6	-5.44	119.34	123.70
85	5	2608	G	C6-C5-N7	-5.44	127.14	130.40
85	5	2755	C	N3-C4-C5	-5.44	119.72	121.90
85	5	2906	C	C2-N3-C4	-5.44	117.18	119.90
85	5	2996	U	C5-C4-O4	5.44	129.17	125.90
85	5	3110	C	OP1-P-OP2	-5.44	111.44	119.60
37	7	64	A	C6-C5-N7	5.44	136.11	132.30
38	8	79	A	C6-C5-N7	-5.44	128.49	132.30
1	2	358	U	N3-C2-O2	-5.44	118.39	122.20
1	2	623	A	C4-C5-N7	-5.44	107.98	110.70
1	2	1315	C	OP2-P-O3'	5.44	117.17	105.20
1	2	1589	C	N1-C2-O2	5.44	122.17	118.90
36	1	376	G	N3-C4-N9	-5.44	122.74	126.00
36	1	650	C	C6-N1-C2	-5.44	118.12	120.30
36	1	1711	C	C6-N1-C2	-5.44	118.12	120.30
36	1	1768	U	O5'-P-OP1	5.44	117.23	110.70
36	1	2106	A	N9-C4-C5	-5.44	103.62	105.80
36	1	3039	C	O5'-P-OP1	5.44	117.23	110.70
36	1	3104	U	C6-N1-C1'	-5.44	113.58	121.20
36	1	3113	A	C4-C5-C6	5.44	119.72	117.00
36	1	3374	U	C6-N1-C2	5.44	124.26	121.00
37	3	80	G	OP2-P-O3'	5.44	117.17	105.20
68	O2	22	SER	CA-CB-OG	-5.44	96.51	111.20
71	O5	10	ARG	NE-CZ-NH1	5.44	123.02	120.30
80	6	199	G	C4-C5-N7	5.44	112.98	110.80
80	6	410	A	N7-C8-N9	5.44	116.52	113.80
80	6	890	C	N3-C4-N4	-5.44	114.19	118.00
80	6	1014	G	C4-N9-C1'	5.44	133.57	126.50
80	6	1671	A	C6-N1-C2	-5.44	115.34	118.60
85	5	80	G	N3-C4-C5	5.44	131.32	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	828	A	C5-C6-N1	-5.44	114.98	117.70
85	5	1000	C	C5-C6-N1	-5.44	118.28	121.00
85	5	2653	C	C6-N1-C2	-5.44	118.12	120.30
85	5	2874	G	C5-C6-N1	-5.44	108.78	111.50
85	5	3278	C	N1-C2-N3	-5.44	115.39	119.20
85	5	3327	G	N1-C2-N2	5.44	121.10	116.20
38	8	44	A	C5-N7-C8	-5.44	101.18	103.90
38	8	75	G	N3-C2-N2	-5.44	116.09	119.90
1	2	836	G	C5-C6-N1	-5.44	108.78	111.50
36	1	522	A	OP1-P-OP2	-5.44	111.44	119.60
36	1	1087	G	C5-C6-N1	-5.44	108.78	111.50
36	1	1101	G	N7-C8-N9	-5.44	110.38	113.10
36	1	1882	G	C8-N9-C4	-5.44	104.22	106.40
36	1	3212	C	N3-C4-N4	-5.44	114.19	118.00
37	3	38	U	P-O3'-C3'	-5.44	113.17	119.70
80	6	9	U	N3-C2-O2	5.44	126.01	122.20
80	6	139	C	N1-C2-O2	5.44	122.16	118.90
80	6	408	C	N1-C2-N3	5.44	123.01	119.20
85	5	681	U	C2-N1-C1'	5.44	124.23	117.70
85	5	785	G	C4-C5-N7	5.44	112.98	110.80
37	7	33	U	C5-C6-N1	-5.44	119.98	122.70
1	2	201	G	C8-N9-C4	5.44	108.58	106.40
1	2	965	U	C5-C4-O4	5.44	129.16	125.90
1	2	1101	G	N3-C2-N2	-5.44	116.09	119.90
36	1	322	U	C4-C5-C6	5.44	122.96	119.70
36	1	1658	G	N7-C8-N9	5.44	115.82	113.10
36	1	2317	A	C6-N1-C2	-5.44	115.34	118.60
80	6	100	A	N7-C8-N9	-5.44	111.08	113.80
80	6	106	U	N1-C2-N3	-5.44	111.64	114.90
80	6	171	A	O5'-P-OP2	-5.44	100.81	105.70
80	6	219	A	C8-N9-C4	5.44	107.97	105.80
80	6	881	A	C5-N7-C8	-5.44	101.18	103.90
80	6	994	G	N7-C8-N9	5.44	115.82	113.10
80	6	1116	A	OP2-P-O3'	5.44	117.16	105.20
80	6	1119	G	C5-C6-O6	-5.44	125.34	128.60
80	6	1258	U	N3-C2-O2	-5.44	118.39	122.20
80	6	1748	G	C8-N9-C1'	-5.44	119.93	127.00
85	5	53	G	C5-C6-O6	5.44	131.86	128.60
85	5	2524	A	C6-C5-N7	-5.44	128.49	132.30
85	5	2690	G	C5-C6-N1	5.44	114.22	111.50
85	5	3084	C	C4-C5-C6	-5.44	114.68	117.40
1	2	1162	G	C5-N7-C8	-5.44	101.58	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	157	A	N1-C2-N3	5.44	132.02	129.30
36	1	331	G	N3-C4-C5	-5.44	125.88	128.60
36	1	1408	G	N9-C1'-C2'	-5.44	106.02	112.00
36	1	2316	G	N1-C2-N3	5.44	127.16	123.90
36	1	2832	C	OP2-P-O3'	5.44	117.16	105.20
36	1	3305	A	O5'-P-OP2	5.44	117.22	110.70
37	3	69	C	N3-C2-O2	-5.44	118.09	121.90
80	6	703	G	C4-C5-C6	5.44	122.06	118.80
80	6	1068	C	N1-C2-N3	-5.44	115.39	119.20
80	6	1176	G	N1-C6-O6	-5.44	116.64	119.90
80	6	1329	A	C8-N9-C4	-5.44	103.62	105.80
85	5	415	G	O5'-P-OP2	5.44	117.22	110.70
1	2	969	G	C5-C6-O6	5.43	131.86	128.60
1	2	1562	U	C2-N3-C4	-5.43	123.74	127.00
36	1	41	G	C4-C5-C6	5.43	122.06	118.80
36	1	397	A	C4-C5-N7	-5.43	107.98	110.70
36	1	417	A	N9-C4-C5	-5.43	103.63	105.80
36	1	554	A	N1-C6-N6	-5.43	115.34	118.60
36	1	563	U	N3-C4-C5	-5.43	111.34	114.60
36	1	1220	U	N3-C4-O4	5.43	123.20	119.40
36	1	1444	G	C2-N3-C4	-5.43	109.18	111.90
36	1	1807	G	C4-C5-C6	5.43	122.06	118.80
36	1	2149	A	C5-N7-C8	5.43	106.62	103.90
36	1	2778	G	N9-C4-C5	-5.43	103.23	105.40
36	1	2892	A	N1-C6-N6	-5.43	115.34	118.60
36	1	3015	G	C5-C6-O6	-5.43	125.34	128.60
38	4	66	A	C4-C5-C6	5.43	119.72	117.00
38	4	106	C	C2-N3-C4	-5.43	117.18	119.90
80	6	239	C	C2-N3-C4	5.43	122.62	119.90
80	6	390	G	C6-C5-N7	-5.43	127.14	130.40
80	6	577	G	N3-C2-N2	-5.43	116.10	119.90
80	6	707	A	N1-C6-N6	5.43	121.86	118.60
80	6	822	U	C5-C6-N1	5.43	125.42	122.70
80	6	1187	U	C5-C6-N1	5.43	125.42	122.70
85	5	213	A	OP2-P-O3'	5.43	117.16	105.20
85	5	875	G	N3-C2-N2	-5.43	116.10	119.90
85	5	1165	A	OP1-P-O3'	5.43	117.16	105.20
85	5	1458	U	N1-C2-N3	5.43	118.16	114.90
85	5	1482	A	C5-C6-N1	-5.43	114.98	117.70
85	5	2112	U	C6-N1-C2	-5.43	117.74	121.00
85	5	2833	A	N7-C8-N9	-5.43	111.08	113.80
85	5	3303	G	C4-C5-C6	-5.43	115.54	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	145	U	N3-C4-O4	5.43	123.20	119.40
1	2	469	C	C5-C6-N1	-5.43	118.28	121.00
1	2	613	G	C8-N9-C4	-5.43	104.23	106.40
1	2	1372	C	N3-C4-N4	-5.43	114.20	118.00
1	2	1439	C	N3-C2-O2	-5.43	118.10	121.90
36	1	99	A	O4'-C1'-N9	5.43	112.55	108.20
36	1	1059	G	N9-C4-C5	-5.43	103.23	105.40
36	1	1141	C	OP2-P-O3'	5.43	117.15	105.20
36	1	1171	G	N3-C4-C5	-5.43	125.88	128.60
36	1	1238	C	C6-N1-C2	-5.43	118.13	120.30
36	1	3183	A	N1-C2-N3	5.43	132.02	129.30
37	3	96	U	C6-N1-C2	-5.43	117.74	121.00
38	4	15	G	OP1-P-OP2	-5.43	111.45	119.60
53	M7	53	ASP	CB-CG-OD1	-5.43	113.41	118.30
80	6	436	A	C6-N1-C2	-5.43	115.34	118.60
80	6	634	G	N9-C4-C5	5.43	107.57	105.40
80	6	788	A	C8-N9-C4	5.43	107.97	105.80
80	6	871	G	N3-C4-C5	5.43	131.32	128.60
85	5	20	A	N1-C2-N3	5.43	132.02	129.30
85	5	352	A	O4'-C1'-N9	5.43	112.55	108.20
85	5	791	A	N9-C4-C5	-5.43	103.63	105.80
85	5	875	G	N7-C8-N9	5.43	115.82	113.10
85	5	1643	A	N7-C8-N9	5.43	116.52	113.80
85	5	1759	C	C2-N3-C4	5.43	122.62	119.90
85	5	2406	C	N1-C2-N3	5.43	123.00	119.20
38	8	137	C	N3-C2-O2	5.43	125.70	121.90
1	2	362	G	N1-C6-O6	5.43	123.16	119.90
1	2	1248	G	N3-C2-N2	-5.43	116.10	119.90
1	2	1498	A	C5-C6-N1	5.43	120.42	117.70
36	1	26	A	C4-C5-N7	-5.43	107.98	110.70
36	1	651	G	N9-C4-C5	5.43	107.57	105.40
36	1	1313	G	C5-C6-N1	5.43	114.22	111.50
36	1	1688	U	C4-C5-C6	5.43	122.96	119.70
36	1	1903	U	C5-C6-N1	5.43	125.42	122.70
36	1	2253	G	C5-C6-O6	-5.43	125.34	128.60
36	1	2271	A	N3-C4-N9	-5.43	123.06	127.40
80	6	18	C	N3-C4-C5	-5.43	119.73	121.90
80	6	1058	U	OP1-P-O3'	5.43	117.15	105.20
85	5	36	C	N1-C2-O2	5.43	122.16	118.90
85	5	853	G	C5-N7-C8	-5.43	101.58	104.30
85	5	1373	A	OP1-P-O3'	-5.43	93.25	105.20
85	5	1787	A	C2-N3-C4	-5.43	107.88	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2214	A	O5'-P-OP1	5.43	117.22	110.70
85	5	2334	U	OP1-P-O3'	5.43	117.15	105.20
85	5	2560	C	N3-C4-N4	5.43	121.80	118.00
85	5	3143	C	OP1-P-OP2	5.43	127.75	119.60
1	2	815	U	C5-C6-N1	-5.43	119.98	122.70
1	2	847	U	C6-N1-C2	-5.43	117.74	121.00
1	2	1129	G	C2-N3-C4	-5.43	109.19	111.90
1	2	1706	U	N3-C4-O4	5.43	123.20	119.40
36	1	340	C	OP2-P-O3'	5.43	117.14	105.20
36	1	1022	U	N1-C2-O2	5.43	126.60	122.80
36	1	2392	C	C2-N3-C4	5.43	122.61	119.90
36	1	2723	U	P-O3'-C3'	-5.43	113.18	119.70
36	1	3320	A	N7-C8-N9	5.43	116.52	113.80
36	1	3337	G	OP2-P-O3'	5.43	117.14	105.20
37	3	60	G	C5-C6-N1	-5.43	108.78	111.50
80	6	366	A	N1-C6-N6	-5.43	115.34	118.60
80	6	560	U	C5-C4-O4	-5.43	122.64	125.90
80	6	1360	A	C5-C6-N1	5.43	120.42	117.70
80	6	1527	C	N3-C2-O2	5.43	125.70	121.90
80	6	1535	U	O5'-P-OP2	-5.43	100.81	105.70
80	6	1735	U	N3-C4-O4	-5.43	115.60	119.40
85	5	402	A	N1-C2-N3	5.43	132.01	129.30
85	5	1184	A	C6-C5-N7	5.43	136.10	132.30
85	5	1830	G	C5-C6-N1	-5.43	108.78	111.50
85	5	2881	C	O5'-P-OP1	-5.43	100.81	105.70
85	5	2908	G	N1-C2-N3	-5.43	120.64	123.90
85	5	3003	G	N3-C4-C5	5.43	131.31	128.60
85	5	3081	C	N1-C2-N3	5.43	123.00	119.20
85	5	3112	G	N3-C2-N2	-5.43	116.10	119.90
85	5	3200	G	O4'-C1'-N9	5.43	112.54	108.20
37	7	45	A	OP1-P-O3'	5.43	117.15	105.20
37	7	115	G	C6-C5-N7	-5.43	127.14	130.40
1	2	861	G	N1-C6-O6	5.43	123.16	119.90
36	1	883	A	O5'-P-OP2	-5.43	100.81	105.70
36	1	1561	G	N3-C4-C5	5.43	131.31	128.60
36	1	2582	C	C2-N1-C1'	5.43	124.77	118.80
36	1	3214	U	C6-N1-C2	-5.43	117.74	121.00
38	4	4	C	N1-C2-O2	-5.43	115.64	118.90
38	4	28	C	N3-C2-O2	-5.43	118.10	121.90
80	6	1617	U	O5'-P-OP1	5.43	117.21	110.70
85	5	214	G	C5-N7-C8	-5.43	101.59	104.30
85	5	1448	U	C4-C5-C6	5.43	122.96	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1902	G	OP2-P-O3'	5.43	117.14	105.20
85	5	2174	G	C2-N3-C4	-5.43	109.19	111.90
85	5	2741	C	C2-N3-C4	-5.43	117.19	119.90
85	5	3134	A	OP2-P-O3'	5.43	117.14	105.20
1	2	1139	C	OP1-P-O3'	5.43	117.14	105.20
1	2	1291	G	C4-C5-C6	5.43	122.06	118.80
1	2	1384	A	N1-C6-N6	-5.43	115.34	118.60
36	1	1283	C	C4-C5-C6	5.43	120.11	117.40
36	1	1578	C	OP1-P-OP2	5.43	127.74	119.60
36	1	1704	A	C5-C6-N1	5.43	120.41	117.70
36	1	1932	A	N1-C2-N3	5.43	132.01	129.30
36	1	2261	G	N1-C2-N3	5.43	127.16	123.90
36	1	2436	U	O5'-P-OP2	-5.43	100.82	105.70
36	1	2628	A	OP1-P-O3'	5.43	117.14	105.20
38	4	75	G	N1-C2-N3	5.43	127.16	123.90
80	6	816	G	N9-C4-C5	-5.43	103.23	105.40
80	6	1698	G	C8-N9-C4	5.43	108.57	106.40
85	5	803	C	N3-C4-N4	5.43	121.80	118.00
85	5	1131	G	C6-N1-C2	5.43	128.36	125.10
85	5	1217	A	O5'-P-OP2	5.43	117.21	110.70
85	5	1317	A	C6-C5-N7	-5.43	128.50	132.30
85	5	1406	A	C8-N9-C4	-5.43	103.63	105.80
85	5	1728	G	N3-C4-C5	-5.43	125.89	128.60
85	5	2224	A	C6-N1-C2	-5.43	115.34	118.60
85	5	2313	A	OP2-P-O3'	5.43	117.14	105.20
85	5	2678	A	O5'-P-OP1	5.43	117.21	110.70
85	5	2883	U	C5-C6-N1	-5.43	119.99	122.70
85	5	3075	G	N1-C2-N2	-5.43	111.32	116.20
37	7	109	G	C5-C6-N1	-5.43	108.79	111.50
42	15	15	ARG	NE-CZ-NH1	-5.43	117.59	120.30
1	2	243	G	OP1-P-OP2	-5.42	111.46	119.60
1	2	786	A	C8-N9-C4	-5.42	103.63	105.80
1	2	810	C	C5-C4-N4	-5.42	116.40	120.20
1	2	1566	A	N7-C8-N9	-5.42	111.09	113.80
36	1	163	C	N1-C2-O2	5.42	122.15	118.90
36	1	248	U	OP2-P-O3'	5.42	117.14	105.20
36	1	390	G	C5-C6-O6	-5.42	125.34	128.60
36	1	1009	A	C5-C6-N6	5.42	128.04	123.70
36	1	1391	C	C6-N1-C1'	-5.42	114.29	120.80
36	1	1468	A	OP1-P-OP2	5.42	127.74	119.60
36	1	2242	A	C5-C6-N6	-5.42	119.36	123.70
36	1	2428	U	N1-C2-N3	5.42	118.15	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2900	A	C4-C5-N7	5.42	113.41	110.70
36	1	2942	C	N3-C2-O2	5.42	125.70	121.90
38	4	96	A	N1-C6-N6	-5.42	115.34	118.60
80	6	167	U	N3-C2-O2	-5.42	118.40	122.20
80	6	198	A	C2-N3-C4	5.42	113.31	110.60
80	6	955	A	OP2-P-O3'	5.42	117.13	105.20
80	6	1314	U	N3-C4-C5	5.42	117.86	114.60
80	6	1455	G	N3-C2-N2	-5.42	116.10	119.90
80	6	1755	A	C4-N9-C1'	5.42	136.06	126.30
85	5	191	U	C5-C6-N1	-5.42	119.99	122.70
85	5	684	G	N9-C4-C5	5.42	107.57	105.40
85	5	1104	G	N7-C8-N9	5.42	115.81	113.10
85	5	3030	G	N1-C2-N3	5.42	127.16	123.90
85	5	3280	U	C5-C6-N1	-5.42	119.99	122.70
36	1	33	G	OP2-P-O3'	5.42	117.13	105.20
36	1	386	A	OP1-P-OP2	5.42	127.73	119.60
36	1	956	U	C6-N1-C2	-5.42	117.75	121.00
37	3	85	G	C2-N3-C4	5.42	114.61	111.90
38	4	61	A	C4-C5-C6	5.42	119.71	117.00
38	4	90	U	C4-C5-C6	5.42	122.95	119.70
80	6	229	U	C6-N1-C2	-5.42	117.75	121.00
80	6	1747	G	C2-N3-C4	-5.42	109.19	111.90
85	5	295	A	O4'-C1'-N9	-5.42	103.86	108.20
85	5	2185	G	OP2-P-O3'	5.42	117.13	105.20
85	5	2898	G	C6-N1-C2	5.42	128.35	125.10
85	5	3015	G	C5-N7-C8	5.42	107.01	104.30
85	5	3138	U	C5-C4-O4	-5.42	122.65	125.90
85	5	3273	A	N9-C4-C5	5.42	107.97	105.80
1	2	728	U	C4-C5-C6	5.42	122.95	119.70
1	2	1297	U	C6-N1-C2	-5.42	117.75	121.00
1	2	1337	G	N7-C8-N9	5.42	115.81	113.10
1	2	1542	A	C6-C5-N7	-5.42	128.51	132.30
36	1	333	G	C2-N3-C4	-5.42	109.19	111.90
36	1	380	U	O5'-P-OP2	5.42	117.21	110.70
36	1	537	A	OP2-P-O3'	5.42	117.13	105.20
36	1	583	G	C5-C6-O6	5.42	131.85	128.60
36	1	626	U	C4-C5-C6	5.42	122.95	119.70
36	1	1128	U	C6-N1-C2	5.42	124.25	121.00
36	1	2770	G	N9-C4-C5	5.42	107.57	105.40
38	4	88	A	O5'-P-OP1	-5.42	100.82	105.70
80	6	792	U	O4'-C1'-N1	5.42	112.54	108.20
80	6	1062	A	N1-C6-N6	5.42	121.85	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	718	G	N3-C4-N9	5.42	129.25	126.00
85	5	911	C	OP2-P-O3'	5.42	117.13	105.20
85	5	1585	C	O5'-P-OP2	-5.42	100.82	105.70
85	5	2109	U	N3-C2-O2	5.42	126.00	122.20
85	5	2145	A	C6-C5-N7	-5.42	128.50	132.30
85	5	2193	U	N3-C4-C5	5.42	117.85	114.60
85	5	2210	G	N9-C4-C5	5.42	107.57	105.40
85	5	2944	U	P-O3'-C3'	-5.42	113.19	119.70
85	5	3044	G	C5-C6-N1	-5.42	108.79	111.50
85	5	3067	C	N1-C2-N3	5.42	123.00	119.20
74	o8	68	SER	C-N-CA	5.42	135.25	121.70
1	2	459	G	C8-N9-C4	-5.42	104.23	106.40
36	1	866	A	N9-C4-C5	-5.42	103.63	105.80
36	1	1005	G	N3-C4-C5	5.42	131.31	128.60
36	1	1314	C	OP2-P-O3'	5.42	117.12	105.20
36	1	1900	A	N9-C4-C5	5.42	107.97	105.80
36	1	2223	A	C4-C5-C6	5.42	119.71	117.00
36	1	2808	A	N3-C4-C5	5.42	130.59	126.80
36	1	3159	C	C5-C4-N4	5.42	123.99	120.20
80	6	511	A	C4-C5-C6	-5.42	114.29	117.00
80	6	1095	U	O5'-P-OP2	-5.42	100.82	105.70
80	6	1383	G	C5-N7-C8	-5.42	101.59	104.30
80	6	1768	G	N7-C8-N9	-5.42	110.39	113.10
85	5	735	A	C8-N9-C4	5.42	107.97	105.80
85	5	779	G	N7-C8-N9	5.42	115.81	113.10
85	5	1172	G	C6-C5-N7	-5.42	127.15	130.40
85	5	1436	U	N1-C2-N3	5.42	118.15	114.90
85	5	2849	C	N3-C4-N4	5.42	121.79	118.00
85	5	3072	C	OP2-P-O3'	5.42	117.12	105.20
85	5	3324	C	C6-N1-C2	5.42	122.47	120.30
1	2	745	A	N9-C4-C5	5.42	107.97	105.80
1	2	953	A	N1-C6-N6	-5.42	115.35	118.60
1	2	1534	U	C5-C6-N1	5.42	125.41	122.70
1	2	1577	G	N7-C8-N9	-5.42	110.39	113.10
36	1	31	C	OP2-P-O3'	5.42	117.12	105.20
36	1	56	G	N3-C4-C5	5.42	131.31	128.60
36	1	329	U	OP2-P-O3'	5.42	117.12	105.20
36	1	557	A	C8-N9-C4	5.42	107.97	105.80
36	1	690	A	C5-C6-N1	-5.42	114.99	117.70
36	1	1163	A	O5'-P-OP2	-5.42	100.82	105.70
36	1	2233	A	C6-N1-C2	5.42	121.85	118.60
36	1	2239	G	N1-C2-N3	-5.42	120.65	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2398	A	C8-N9-C4	-5.42	103.63	105.80
36	1	3184	A	N3-C4-N9	5.42	131.73	127.40
37	3	39	C	C5-C4-N4	5.42	123.99	120.20
37	3	77	G	C5-C6-N1	-5.42	108.79	111.50
38	4	74	U	O5'-P-OP1	-5.42	100.82	105.70
80	6	206	A	OP2-P-O3'	5.42	117.12	105.20
80	6	512	A	O4'-C1'-N9	5.42	112.53	108.20
80	6	761	G	N3-C2-N2	5.42	123.69	119.90
80	6	1222	C	C6-N1-C2	-5.42	118.13	120.30
85	5	583	G	N3-C2-N2	-5.42	116.11	119.90
85	5	1022	U	N3-C4-C5	5.42	117.85	114.60
85	5	1058	U	N1-C2-O2	-5.42	119.01	122.80
85	5	1325	U	C5-C4-O4	5.42	129.15	125.90
85	5	1403	C	C4-C5-C6	5.42	120.11	117.40
1	2	298	C	O5'-P-OP1	-5.42	100.83	105.70
1	2	322	G	C6-N1-C2	-5.42	121.85	125.10
1	2	938	A	C2-N3-C4	-5.42	107.89	110.60
1	2	1163	C	O5'-P-OP2	-5.42	100.83	105.70
1	2	1706	U	N1-C2-O2	-5.42	119.01	122.80
36	1	420	G	C5-C6-N1	5.42	114.21	111.50
36	1	688	G	C5-C6-O6	5.42	131.85	128.60
36	1	1127	G	C2-N3-C4	5.42	114.61	111.90
36	1	1664	G	OP1-P-OP2	-5.42	111.48	119.60
36	1	2134	G	N1-C2-N3	5.42	127.15	123.90
36	1	2143	A	C5-N7-C8	-5.42	101.19	103.90
36	1	2322	C	N3-C4-N4	-5.42	114.21	118.00
38	4	124	G	C4-C5-C6	5.42	122.05	118.80
46	L9	130	ASP	CB-CG-OD1	-5.42	113.43	118.30
80	6	1012	U	OP1-P-OP2	-5.42	111.48	119.60
80	6	1122	G	O5'-P-OP1	-5.42	100.83	105.70
80	6	1124	A	C4-C5-C6	-5.42	114.29	117.00
80	6	1432	U	C5-C6-N1	-5.42	119.99	122.70
85	5	672	A	OP2-P-O3'	5.42	117.11	105.20
85	5	806	A	C4-C5-C6	5.42	119.71	117.00
85	5	887	G	C2-N3-C4	5.42	114.61	111.90
85	5	3184	A	N7-C8-N9	5.42	116.51	113.80
1	2	16	G	C8-N9-C4	-5.42	104.23	106.40
1	2	342	C	C5-C4-N4	-5.42	116.41	120.20
1	2	1610	U	C5-C6-N1	5.42	125.41	122.70
36	1	1643	A	N3-C4-N9	5.42	131.73	127.40
36	1	2321	A	C8-N9-C4	5.42	107.97	105.80
36	1	2800	G	N9-C4-C5	5.42	107.57	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	3	21	G	N9-C4-C5	-5.42	103.23	105.40
80	6	1	U	N1-C2-O2	5.42	126.59	122.80
80	6	980	G	OP1-P-OP2	-5.42	111.48	119.60
85	5	709	A	N1-C2-N3	5.42	132.01	129.30
85	5	892	U	C4-C5-C6	5.42	122.95	119.70
85	5	1298	C	N3-C4-N4	5.42	121.79	118.00
85	5	1505	C	C6-N1-C2	-5.42	118.13	120.30
85	5	1758	G	N1-C2-N3	-5.42	120.65	123.90
85	5	2110	G	C8-N9-C4	5.42	108.57	106.40
85	5	3193	C	O5'-P-OP1	5.42	117.20	110.70
36	1	16	A	N1-C6-N6	5.41	121.85	118.60
36	1	376	G	OP1-P-O3'	-5.41	93.29	105.20
36	1	735	A	O4'-C1'-N9	-5.41	103.87	108.20
36	1	805	G	N3-C4-C5	-5.41	125.89	128.60
36	1	1187	C	OP2-P-O3'	5.41	117.11	105.20
36	1	1484	U	C5-C6-N1	-5.41	119.99	122.70
36	1	1834	U	OP1-P-O3'	5.41	117.11	105.20
36	1	2411	U	O5'-P-OP2	-5.41	100.83	105.70
36	1	3359	A	N1-C6-N6	5.41	121.85	118.60
37	3	42	A	N1-C2-N3	5.41	132.01	129.30
47	M0	24	ARG	NE-CZ-NH2	-5.41	117.59	120.30
80	6	86	A	OP2-P-O3'	5.41	117.11	105.20
80	6	287	G	O5'-P-OP2	5.41	117.19	110.70
80	6	522	U	N3-C4-O4	-5.41	115.61	119.40
85	5	246	U	C2-N3-C4	-5.41	123.75	127.00
85	5	391	A	P-O3'-C3'	-5.41	113.20	119.70
85	5	723	U	N3-C2-O2	5.41	125.99	122.20
85	5	1117	G	C6-C5-N7	-5.41	127.15	130.40
85	5	1291	A	C5-C6-N6	-5.41	119.37	123.70
85	5	1335	C	OP2-P-O3'	5.41	117.11	105.20
85	5	1793	C	N3-C2-O2	5.41	125.69	121.90
85	5	1911	A	N7-C8-N9	-5.41	111.09	113.80
37	7	17	A	N3-C4-C5	5.41	130.59	126.80
1	2	122	U	C5-C6-N1	5.41	125.41	122.70
1	2	755	G	C6-C5-N7	-5.41	127.15	130.40
36	1	173	G	OP1-P-OP2	5.41	127.72	119.60
36	1	266	A	C5-C6-N1	5.41	120.41	117.70
36	1	1509	A	C8-N9-C4	-5.41	103.64	105.80
36	1	3272	C	C4-C5-C6	-5.41	114.69	117.40
36	1	3380	U	C2-N3-C4	5.41	130.25	127.00
37	3	72	A	C8-N9-C4	5.41	107.97	105.80
54	M8	54	LEU	CB-CG-CD2	-5.41	101.80	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	117	U	N3-C2-O2	5.41	125.99	122.20
80	6	445	A	C6-N1-C2	5.41	121.85	118.60
80	6	553	G	C8-N9-C4	-5.41	104.23	106.40
80	6	765	G	C5-C6-O6	5.41	131.85	128.60
85	5	813	G	O5'-P-OP2	-5.41	100.83	105.70
85	5	1774	C	OP2-P-O3'	5.41	117.11	105.20
85	5	2843	U	O4'-C1'-N1	5.41	112.53	108.20
38	8	39	G	C6-N1-C2	-5.41	121.85	125.10
1	2	421	A	OP1-P-OP2	-5.41	111.48	119.60
1	2	602	U	N3-C4-C5	-5.41	111.35	114.60
1	2	635	A	OP2-P-O3'	5.41	117.10	105.20
1	2	1391	G	C6-C5-N7	-5.41	127.15	130.40
36	1	199	A	N1-C2-N3	5.41	132.00	129.30
36	1	767	U	N3-C4-C5	-5.41	111.35	114.60
36	1	878	G	C4-C5-C6	5.41	122.05	118.80
36	1	1564	U	N1-C2-O2	5.41	126.59	122.80
36	1	2602	G	C5-N7-C8	5.41	107.00	104.30
36	1	2754	G	C6-N1-C2	-5.41	121.85	125.10
36	1	2875	U	C6-N1-C2	-5.41	117.75	121.00
38	4	36	G	N3-C4-C5	5.41	131.31	128.60
80	6	18	C	OP1-P-OP2	5.41	127.72	119.60
80	6	204	G	N1-C2-N3	-5.41	120.65	123.90
80	6	249	U	C2-N3-C4	-5.41	123.75	127.00
80	6	375	U	C4-C5-C6	5.41	122.95	119.70
80	6	613	G	N3-C4-C5	-5.41	125.89	128.60
80	6	1450	U	C6-N1-C2	5.41	124.25	121.00
85	5	79	U	C5-C4-O4	5.41	129.15	125.90
85	5	331	G	N1-C2-N3	5.41	127.15	123.90
85	5	357	A	C4-C5-N7	-5.41	108.00	110.70
85	5	1335	C	C4-C5-C6	-5.41	114.69	117.40
85	5	2303	A	N1-C2-N3	5.41	132.01	129.30
85	5	2364	G	C5-C6-O6	-5.41	125.35	128.60
85	5	2393	G	N7-C8-N9	5.41	115.81	113.10
85	5	3123	A	OP2-P-O3'	5.41	117.10	105.20
85	5	3297	U	N1-C2-N3	5.41	118.15	114.90
1	2	763	A	N1-C2-N3	5.41	132.00	129.30
1	2	778	U	C2-N3-C4	-5.41	123.75	127.00
1	2	1180	C	N3-C2-O2	-5.41	118.11	121.90
36	1	215	G	N1-C2-N2	5.41	121.07	116.20
36	1	562	C	C2-N3-C4	-5.41	117.19	119.90
36	1	639	G	OP1-P-OP2	-5.41	111.49	119.60
36	1	784	A	C5-N7-C8	5.41	106.60	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2830	G	N3-C2-N2	-5.41	116.11	119.90
37	3	58	C	N3-C4-N4	5.41	121.79	118.00
80	6	102	U	C5-C6-N1	5.41	125.40	122.70
80	6	367	A	N1-C2-N3	5.41	132.00	129.30
80	6	912	U	C5-C6-N1	5.41	125.41	122.70
80	6	976	G	OP1-P-O3'	5.41	117.10	105.20
80	6	1783	C	C2-N1-C1'	5.41	124.75	118.80
85	5	182	U	C5-C6-N1	5.41	125.40	122.70
85	5	930	U	C2-N1-C1'	-5.41	111.21	117.70
85	5	945	C	C6-N1-C1'	-5.41	114.31	120.80
85	5	1916	U	O5'-P-OP2	-5.41	100.83	105.70
85	5	2224	A	C8-N9-C4	5.41	107.96	105.80
85	5	2917	G	C6-C5-N7	-5.41	127.16	130.40
85	5	3318	G	C4-C5-N7	-5.41	108.64	110.80
37	7	57	G	OP2-P-O3'	5.41	117.10	105.20
37	7	65	G	N1-C2-N2	5.41	121.07	116.20
37	7	72	A	C6-N1-C2	-5.41	115.36	118.60
38	8	17	A	O5'-P-OP1	5.41	117.19	110.70
40	13	348	ARG	NE-CZ-NH2	-5.41	117.60	120.30
1	2	1	U	C5-C6-N1	5.41	125.40	122.70
36	1	186	U	O5'-P-OP2	5.41	117.19	110.70
36	1	297	G	C8-N9-C4	5.41	108.56	106.40
36	1	1760	A	O5'-P-OP1	-5.41	100.83	105.70
36	1	2844	C	OP1-P-OP2	5.41	127.71	119.60
38	4	47	C	C5-C4-N4	5.41	123.98	120.20
80	6	1449	U	C6-N1-C2	-5.41	117.76	121.00
85	5	327	A	C6-N1-C2	-5.41	115.36	118.60
85	5	791	A	C8-N9-C4	5.41	107.96	105.80
85	5	1589	A	N1-C2-N3	-5.41	126.60	129.30
85	5	1627	U	C4-C5-C6	5.41	122.94	119.70
85	5	1685	C	C5-C6-N1	5.41	123.70	121.00
85	5	2937	G	C5-N7-C8	-5.41	101.60	104.30
1	2	1297	U	O5'-P-OP1	-5.41	100.83	105.70
36	1	331	G	OP1-P-OP2	5.41	127.71	119.60
36	1	1203	A	C6-C5-N7	5.41	136.08	132.30
36	1	1488	G	C4-C5-N7	-5.41	108.64	110.80
36	1	1513	G	N1-C2-N3	5.41	127.14	123.90
36	1	1680	G	C6-C5-N7	5.41	133.64	130.40
36	1	2285	C	N3-C2-O2	-5.41	118.12	121.90
36	1	2291	A	C4-C5-N7	-5.41	108.00	110.70
36	1	2377	G	OP1-P-OP2	-5.41	111.49	119.60
36	1	2607	G	C4-C5-C6	5.41	122.04	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2966	G	OP2-P-O3'	5.41	117.09	105.20
36	1	3045	G	C4-C5-N7	-5.41	108.64	110.80
49	M3	70	ARG	NE-CZ-NH1	-5.41	117.60	120.30
69	O3	7	LEU	CB-CG-CD2	-5.41	101.81	111.00
80	6	57	G	OP2-P-O3'	5.41	117.09	105.20
80	6	155	U	C5-C4-O4	5.41	129.14	125.90
80	6	681	U	OP1-P-OP2	5.41	127.71	119.60
80	6	687	G	N3-C4-C5	5.41	131.30	128.60
80	6	980	G	C8-N9-C4	-5.41	104.24	106.40
80	6	1203	A	N7-C8-N9	5.41	116.50	113.80
85	5	402	A	N7-C8-N9	-5.41	111.10	113.80
85	5	515	C	O5'-P-OP2	-5.41	100.84	105.70
85	5	551	A	N1-C6-N6	-5.41	115.36	118.60
85	5	650	C	C4-C5-C6	-5.41	114.70	117.40
85	5	869	G	C4-C5-C6	-5.41	115.56	118.80
85	5	1200	A	N1-C2-N3	5.41	132.00	129.30
85	5	1222	G	N1-C2-N3	-5.41	120.66	123.90
85	5	1406	A	O5'-P-OP1	5.41	117.19	110.70
85	5	2972	G	N1-C2-N2	-5.41	111.34	116.20
85	5	3044	G	N3-C4-C5	5.41	131.30	128.60
85	5	3366	G	OP1-P-O3'	5.41	117.09	105.20
38	8	39	G	C2-N3-C4	-5.41	109.20	111.90
1	2	343	C	C2-N3-C4	5.40	122.60	119.90
1	2	437	A	C6-N1-C2	5.40	121.84	118.60
1	2	780	G	C5-N7-C8	-5.40	101.60	104.30
1	2	1395	G	N3-C4-C5	5.40	131.30	128.60
36	1	558	U	C6-N1-C2	5.40	124.24	121.00
36	1	2117	A	N7-C8-N9	-5.40	111.10	113.80
36	1	2726	C	OP2-P-O3'	5.40	117.09	105.20
80	6	1097	U	C4-C5-C6	-5.40	116.46	119.70
85	5	101	G	C8-N9-C4	-5.40	104.24	106.40
85	5	527	A	C2-N3-C4	-5.40	107.90	110.60
85	5	688	G	C5-N7-C8	5.40	107.00	104.30
85	5	909	G	C5-C6-N1	-5.40	108.80	111.50
85	5	1018	G	C5-C6-N1	5.40	114.20	111.50
85	5	1076	C	C4-C5-C6	5.40	120.10	117.40
85	5	1484	U	C5-C4-O4	5.40	129.14	125.90
85	5	2677	G	N3-C4-N9	5.40	129.24	126.00
85	5	2977	G	N1-C2-N2	5.40	121.06	116.20
85	5	2991	A	N3-C4-C5	-5.40	123.02	126.80
38	8	26	U	C4-C5-C6	-5.40	116.46	119.70
56	n0	70	THR	CA-CB-CG2	-5.40	104.83	112.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	528	U	C4-C5-C6	5.40	122.94	119.70
1	2	904	U	N3-C2-O2	5.40	125.98	122.20
1	2	1522	G	N7-C8-N9	5.40	115.80	113.10
36	1	211	A	C5-C6-N6	-5.40	119.38	123.70
36	1	2108	C	N1-C2-O2	5.40	122.14	118.90
36	1	2691	A	C5-C6-N6	5.40	128.02	123.70
36	1	3065	G	C4-C5-C6	5.40	122.04	118.80
36	1	3145	C	C4-C5-C6	-5.40	114.70	117.40
36	1	3184	A	C2-N3-C4	5.40	113.30	110.60
47	M0	142	ASP	CB-CG-OD1	-5.40	113.44	118.30
62	N6	83	ASP	CB-CG-OD1	-5.40	113.44	118.30
80	6	165	G	N3-C4-C5	5.40	131.30	128.60
80	6	284	G	C8-N9-C4	-5.40	104.24	106.40
80	6	652	G	N9-C4-C5	5.40	107.56	105.40
80	6	705	U	N1-C2-O2	5.40	126.58	122.80
80	6	834	G	C6-N1-C2	5.40	128.34	125.10
80	6	880	C	C4-C5-C6	5.40	120.10	117.40
80	6	1655	A	C4-C5-N7	-5.40	108.00	110.70
80	6	1680	G	N1-C2-N3	5.40	127.14	123.90
85	5	16	A	OP1-P-O3'	5.40	117.09	105.20
85	5	20	A	C8-N9-C4	5.40	107.96	105.80
85	5	306	A	O5'-P-OP1	5.40	117.18	110.70
85	5	333	G	OP1-P-OP2	-5.40	111.50	119.60
85	5	1123	U	OP1-P-O3'	5.40	117.09	105.20
85	5	1485	G	N7-C8-N9	5.40	115.80	113.10
85	5	1707	A	C4-C5-C6	5.40	119.70	117.00
85	5	2519	A	C6-C5-N7	-5.40	128.52	132.30
85	5	2525	G	O5'-P-OP2	-5.40	100.84	105.70
85	5	2793	G	C5-C6-O6	-5.40	125.36	128.60
85	5	2889	C	N1-C2-N3	-5.40	115.42	119.20
85	5	2918	G	N1-C2-N2	5.40	121.06	116.20
38	8	106	C	C6-N1-C2	5.40	122.46	120.30
1	2	121	U	C4-C5-C6	5.40	122.94	119.70
1	2	205	U	N3-C4-C5	-5.40	111.36	114.60
1	2	364	G	OP1-P-OP2	-5.40	111.50	119.60
1	2	551	G	N1-C6-O6	5.40	123.14	119.90
1	2	1577	G	C8-N9-C4	5.40	108.56	106.40
36	1	21	G	C4-C5-C6	5.40	122.04	118.80
36	1	229	G	N1-C2-N2	5.40	121.06	116.20
36	1	316	U	OP2-P-O3'	5.40	117.08	105.20
36	1	589	A	C8-N9-C4	5.40	107.96	105.80
36	1	795	G	C6-C5-N7	-5.40	127.16	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1662	G	N9-C4-C5	-5.40	103.24	105.40
36	1	2112	U	O5'-P-OP2	-5.40	100.84	105.70
36	1	2840	C	N1-C2-O2	5.40	122.14	118.90
36	1	3048	A	OP1-P-OP2	5.40	127.70	119.60
36	1	3190	C	C5-C4-N4	-5.40	116.42	120.20
36	1	3191	G	N3-C4-N9	-5.40	122.76	126.00
37	3	2	G	C2-N3-C4	-5.40	109.20	111.90
41	L4	206	LEU	CA-CB-CG	5.40	127.72	115.30
80	6	336	G	C8-N9-C4	-5.40	104.24	106.40
80	6	618	U	N3-C4-O4	5.40	123.18	119.40
80	6	959	U	C5-C6-N1	5.40	125.40	122.70
80	6	969	C	C2-N3-C4	-5.40	117.20	119.90
80	6	1084	A	C8-N9-C4	-5.40	103.64	105.80
85	5	723	U	N3-C4-C5	5.40	117.84	114.60
85	5	1114	U	OP1-P-OP2	5.40	127.70	119.60
85	5	1421	G	OP2-P-O3'	5.40	117.08	105.20
85	5	1458	U	OP2-P-O3'	5.40	117.08	105.20
85	5	1739	U	C5-C4-O4	5.40	129.14	125.90
85	5	2698	G	O5'-P-OP2	-5.40	100.84	105.70
85	5	3033	A	C5-C6-N1	5.40	120.40	117.70
85	5	3055	U	N3-C2-O2	-5.40	118.42	122.20
85	5	3116	G	N3-C4-C5	-5.40	125.90	128.60
85	5	3140	G	OP2-P-O3'	-5.40	93.32	105.20
1	2	1652	U	C4-C5-C6	-5.40	116.46	119.70
36	1	415	G	N7-C8-N9	5.40	115.80	113.10
36	1	991	G	O4'-C1'-N9	5.40	112.52	108.20
36	1	1609	C	N3-C4-C5	-5.40	119.74	121.90
36	1	2501	U	N1-C2-N3	-5.40	111.66	114.90
36	1	2753	G	C4-N9-C1'	5.40	133.52	126.50
36	1	2796	G	C6-N1-C2	-5.40	121.86	125.10
36	1	3200	G	C2-N3-C4	-5.40	109.20	111.90
80	6	615	A	C8-N9-C4	5.40	107.96	105.80
85	5	156	G	OP1-P-O3'	-5.40	93.32	105.20
85	5	379	C	C6-N1-C2	-5.40	118.14	120.30
85	5	857	G	N1-C6-O6	5.40	123.14	119.90
85	5	1025	A	N1-C6-N6	5.40	121.84	118.60
85	5	1898	G	OP2-P-O3'	5.40	117.08	105.20
85	5	2420	C	N3-C4-C5	-5.40	119.74	121.90
85	5	3154	C	N1-C2-N3	-5.40	115.42	119.20
1	2	403	G	C8-N9-C4	5.40	108.56	106.40
1	2	1482	G	N9-C4-C5	-5.40	103.24	105.40
1	2	1606	C	OP1-P-O3'	5.40	117.07	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	265	A	O5'-P-OP2	5.40	117.18	110.70
36	1	805	G	C8-N9-C4	5.40	108.56	106.40
36	1	858	A	C4-C5-C6	5.40	119.70	117.00
36	1	1060	U	C5-C4-O4	-5.40	122.66	125.90
36	1	1295	G	C6-N1-C2	-5.40	121.86	125.10
36	1	1379	G	N1-C6-O6	5.40	123.14	119.90
36	1	2120	A	N1-C2-N3	5.40	132.00	129.30
36	1	2427	U	C2-N3-C4	-5.40	123.76	127.00
36	1	2590	A	N9-C4-C5	5.40	107.96	105.80
36	1	2625	C	O5'-P-OP1	-5.40	100.84	105.70
36	1	2639	G	OP1-P-O3'	-5.40	93.33	105.20
36	1	2925	C	N1-C2-O2	5.40	122.14	118.90
36	1	3252	G	C8-N9-C4	5.40	108.56	106.40
36	1	3284	G	N7-C8-N9	5.40	115.80	113.10
41	L4	324	LEU	CB-CG-CD2	-5.40	101.82	111.00
80	6	15	U	N3-C4-C5	5.40	117.84	114.60
80	6	579	A	C6-N1-C2	5.40	121.84	118.60
80	6	676	G	C2-N3-C4	5.40	114.60	111.90
80	6	1011	G	N1-C2-N3	5.40	127.14	123.90
85	5	96	G	OP1-P-O3'	5.40	117.08	105.20
85	5	137	G	N1-C6-O6	5.40	123.14	119.90
85	5	375	A	C5-C6-N1	-5.40	115.00	117.70
85	5	620	U	C5-C4-O4	-5.40	122.66	125.90
85	5	1384	U	C5-C6-N1	5.40	125.40	122.70
85	5	1486	G	N3-C4-N9	-5.40	122.76	126.00
85	5	1709	C	N1-C2-N3	5.40	122.98	119.20
85	5	1837	U	N1-C2-N3	5.40	118.14	114.90
85	5	2134	G	C8-N9-C1'	-5.40	119.98	127.00
85	5	2388	U	C5-C6-N1	-5.40	120.00	122.70
85	5	2431	C	O5'-P-OP2	-5.40	100.84	105.70
85	5	2604	U	C4-C5-C6	-5.40	116.46	119.70
85	5	2956	A	O4'-C1'-N9	-5.40	103.88	108.20
85	5	3310	A	C5-C6-N6	-5.40	119.38	123.70
37	7	26	C	O4'-C1'-N1	5.40	112.52	108.20
36	1	726	G	N9-C4-C5	5.40	107.56	105.40
80	6	371	G	N3-C4-C5	-5.40	125.90	128.60
80	6	1517	U	C4-C5-C6	5.40	122.94	119.70
80	6	1707	A	O4'-C1'-N9	5.40	112.52	108.20
85	5	1898	G	N3-C4-C5	-5.40	125.90	128.60
85	5	2710	C	O5'-P-OP2	5.40	117.17	110.70
1	2	588	U	N3-C4-C5	-5.39	111.36	114.60
1	2	1111	C	N1-C2-N3	5.39	122.98	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	152	U	C5-C4-O4	5.39	129.14	125.90
36	1	368	G	C6-C5-N7	-5.39	127.16	130.40
36	1	863	C	C2-N3-C4	-5.39	117.20	119.90
36	1	1112	A	OP2-P-O3'	5.39	117.07	105.20
36	1	1380	G	C5-N7-C8	5.39	107.00	104.30
36	1	1912	U	N1-C2-O2	5.39	126.58	122.80
36	1	2656	A	N1-C2-N3	5.39	132.00	129.30
36	1	2946	A	O5'-P-OP1	5.39	117.17	110.70
36	1	3228	C	C6-N1-C2	5.39	122.46	120.30
36	1	3347	A	N1-C2-N3	-5.39	126.60	129.30
38	4	81	U	N3-C4-O4	-5.39	115.62	119.40
38	4	155	A	N1-C6-N6	5.39	121.84	118.60
80	6	966	A	O5'-P-OP1	5.39	117.17	110.70
80	6	1110	G	N1-C6-O6	-5.39	116.66	119.90
80	6	1113	A	C2-N3-C4	-5.39	107.90	110.60
80	6	1172	G	N3-C4-C5	-5.39	125.90	128.60
80	6	1766	A	C4-C5-C6	5.39	119.70	117.00
85	5	661	G	N7-C8-N9	5.39	115.80	113.10
85	5	1012	G	N1-C2-N3	5.39	127.14	123.90
85	5	3074	G	O5'-P-OP1	-5.39	100.84	105.70
85	5	3098	G	C2-N3-C4	5.39	114.60	111.90
85	5	3313	U	N3-C4-O4	-5.39	115.62	119.40
1	2	29	U	C5-C6-N1	-5.39	120.00	122.70
1	2	1155	G	C6-N1-C2	-5.39	121.86	125.10
36	1	85	A	C6-N1-C2	5.39	121.84	118.60
36	1	405	U	O5'-P-OP2	5.39	117.17	110.70
36	1	962	A	C4-C5-C6	5.39	119.70	117.00
36	1	972	A	C6-N1-C2	-5.39	115.36	118.60
36	1	1734	G	O5'-P-OP2	-5.39	100.85	105.70
36	1	1874	A	N1-C2-N3	5.39	132.00	129.30
36	1	2746	A	C4-C5-C6	5.39	119.70	117.00
36	1	2865	U	C5-C4-O4	-5.39	122.67	125.90
44	L7	165	ASP	CB-CG-OD1	5.39	123.15	118.30
79	Q3	5	THR	CA-CB-CG2	-5.39	104.85	112.40
80	6	1122	G	C6-C5-N7	-5.39	127.17	130.40
80	6	1752	U	N1-C2-N3	5.39	118.14	114.90
85	5	513	G	C5-C6-O6	5.39	131.84	128.60
85	5	683	U	C4-C5-C6	-5.39	116.46	119.70
85	5	687	U	C5-C6-N1	-5.39	120.00	122.70
85	5	698	U	C6-N1-C2	-5.39	117.76	121.00
85	5	1112	A	OP2-P-O3'	-5.39	93.34	105.20
85	5	1652	G	C5-C6-N1	-5.39	108.80	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2158	A	N3-C4-C5	-5.39	123.03	126.80
85	5	2516	U	C4-C5-C6	5.39	122.94	119.70
85	5	2689	A	N1-C2-N3	5.39	132.00	129.30
85	5	3036	G	C5-C6-O6	-5.39	125.36	128.60
38	8	36	G	C4-C5-C6	5.39	122.03	118.80
56	n0	82	ASP	CB-CG-OD1	5.39	123.15	118.30
1	2	557	G	C2-N3-C4	-5.39	109.20	111.90
36	1	2593	A	P-O3'-C3'	5.39	126.17	119.70
37	3	114	U	C6-N1-C2	5.39	124.23	121.00
80	6	201	G	C6-N1-C2	-5.39	121.87	125.10
80	6	1174	C	N3-C4-C5	5.39	124.06	121.90
80	6	1353	U	N1-C2-N3	-5.39	111.67	114.90
80	6	1780	G	C5-C6-N1	5.39	114.19	111.50
85	5	276	U	N1-C2-O2	-5.39	119.03	122.80
85	5	518	G	N1-C2-N2	5.39	121.05	116.20
85	5	852	U	C2-N3-C4	-5.39	123.77	127.00
85	5	1576	G	C4-C5-N7	5.39	112.96	110.80
85	5	2423	U	C5-C6-N1	-5.39	120.00	122.70
1	2	425	A	C8-N9-C4	-5.39	103.64	105.80
1	2	575	C	N3-C2-O2	-5.39	118.13	121.90
1	2	963	G	C4-C5-C6	-5.39	115.57	118.80
1	2	1498	A	C4-C5-C6	-5.39	114.31	117.00
36	1	510	G	C5-C6-O6	-5.39	125.37	128.60
36	1	729	C	C6-N1-C2	-5.39	118.14	120.30
36	1	1004	U	N3-C4-O4	5.39	123.17	119.40
36	1	1497	C	P-O3'-C3'	-5.39	113.23	119.70
36	1	1539	A	O5'-P-OP1	5.39	117.17	110.70
36	1	1736	G	C5-C6-N1	5.39	114.19	111.50
36	1	1850	A	C5-C6-N6	5.39	128.01	123.70
36	1	1948	G	N1-C2-N2	5.39	121.05	116.20
36	1	2242	A	N1-C2-N3	5.39	132.00	129.30
36	1	2399	A	OP1-P-O3'	5.39	117.06	105.20
36	1	3230	G	N7-C8-N9	5.39	115.80	113.10
61	N5	124	VAL	CG1-CB-CG2	-5.39	102.28	110.90
79	Q3	29	LEU	CB-CG-CD2	-5.39	101.84	111.00
80	6	43	A	N1-C2-N3	5.39	131.99	129.30
80	6	777	C	C2-N3-C4	-5.39	117.20	119.90
80	6	983	A	N3-C4-C5	-5.39	123.03	126.80
80	6	1519	U	N3-C4-O4	-5.39	115.63	119.40
80	6	1634	C	C6-N1-C1'	-5.39	114.33	120.80
85	5	100	A	OP2-P-O3'	5.39	117.06	105.20
85	5	1718	G	N1-C2-N2	5.39	121.05	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2317	A	N9-C4-C5	5.39	107.96	105.80
85	5	2713	U	OP1-P-O3'	5.39	117.06	105.20
85	5	3288	G	O5'-P-OP1	5.39	117.17	110.70
37	7	29	C	N3-C2-O2	-5.39	118.13	121.90
37	7	103	A	N9-C4-C5	-5.39	103.64	105.80
1	2	1324	A	C5-C6-N6	5.39	128.01	123.70
36	1	891	G	C2-N3-C4	-5.39	109.21	111.90
36	1	1150	A	C2-N3-C4	-5.39	107.91	110.60
36	1	3315	G	C5-N7-C8	5.39	106.99	104.30
38	4	18	U	OP2-P-O3'	5.39	117.05	105.20
80	6	860	U	N1-C2-O2	5.39	126.57	122.80
80	6	960	U	C2-N1-C1'	5.39	124.17	117.70
80	6	1267	G	C5-C6-N1	-5.39	108.81	111.50
85	5	720	A	C8-N9-C4	-5.39	103.64	105.80
85	5	819	U	C5-C4-O4	5.39	129.13	125.90
85	5	2952	G	N1-C2-N3	5.39	127.13	123.90
38	8	104	A	C6-C5-N7	5.39	136.07	132.30
1	2	83	G	C2-N3-C4	5.39	114.59	111.90
1	2	116	U	N3-C4-O4	-5.39	115.63	119.40
1	2	128	U	C4-C5-C6	5.39	122.93	119.70
1	2	981	A	C2-N3-C4	-5.39	107.91	110.60
1	2	1162	G	OP1-P-OP2	-5.39	111.52	119.60
1	2	1173	C	N1-C2-O2	-5.39	115.67	118.90
1	2	1735	U	C5-C4-O4	-5.39	122.67	125.90
36	1	685	G	N3-C2-N2	-5.39	116.13	119.90
36	1	722	G	C4-C5-N7	5.39	112.95	110.80
36	1	727	G	N3-C4-N9	5.39	129.23	126.00
36	1	751	A	N1-C2-N3	5.39	131.99	129.30
36	1	814	U	N1-C2-O2	5.39	126.57	122.80
36	1	1345	G	N1-C2-N3	5.39	127.13	123.90
36	1	1611	G	N3-C4-C5	5.39	131.29	128.60
36	1	2890	A	O4'-C1'-N9	5.39	112.51	108.20
36	1	2994	A	C6-N1-C2	-5.39	115.37	118.60
36	1	3261	C	N1-C2-O2	-5.39	115.67	118.90
61	N5	38	LEU	CB-CG-CD2	5.39	120.16	111.00
80	6	96	G	C2-N3-C4	-5.39	109.21	111.90
80	6	919	A	C5-C6-N1	-5.39	115.01	117.70
85	5	202	G	N1-C2-N3	5.39	127.13	123.90
85	5	665	A	C6-C5-N7	-5.39	128.53	132.30
85	5	938	C	N3-C2-O2	5.39	125.67	121.90
85	5	1104	G	P-O3'-C3'	-5.39	113.24	119.70
85	5	1136	A	C8-N9-C4	5.39	107.95	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1220	U	N3-C4-O4	-5.39	115.63	119.40
85	5	1281	G	N1-C6-O6	-5.39	116.67	119.90
85	5	1648	A	C5-N7-C8	-5.39	101.21	103.90
85	5	2739	A	C5-C6-N6	-5.39	119.39	123.70
85	5	3048	A	N3-C4-C5	-5.39	123.03	126.80
37	7	2	G	N7-C8-N9	5.39	115.79	113.10
37	7	8	G	C8-N9-C4	-5.39	104.25	106.40
37	7	63	A	C8-N9-C1'	-5.39	118.00	127.70
39	12	180	LEU	CA-CB-CG	-5.39	102.91	115.30
1	2	1107	A	OP1-P-OP2	-5.38	111.52	119.60
36	1	264	G	C5-C6-O6	5.38	131.83	128.60
36	1	312	C	N3-C4-N4	5.38	121.77	118.00
36	1	514	G	C5-C6-N1	-5.38	108.81	111.50
36	1	520	U	C4-C5-C6	5.38	122.93	119.70
36	1	625	G	N3-C2-N2	5.38	123.67	119.90
36	1	853	G	OP2-P-O3'	5.38	117.05	105.20
36	1	1680	G	C5-C6-O6	5.38	131.83	128.60
36	1	1861	G	C6-N1-C2	5.38	128.33	125.10
36	1	1911	A	N7-C8-N9	5.38	116.49	113.80
36	1	3109	G	OP2-P-O3'	5.38	117.05	105.20
36	1	3390	G	C5-C6-N1	-5.38	108.81	111.50
37	3	48	U	N1-C2-N3	-5.38	111.67	114.90
37	3	107	C	OP1-P-OP2	-5.38	111.53	119.60
38	4	80	A	N3-C4-C5	5.38	130.57	126.80
80	6	544	A	O4'-C1'-N9	-5.38	103.89	108.20
85	5	29	C	C4-C5-C6	5.38	120.09	117.40
85	5	108	A	N1-C6-N6	-5.38	115.37	118.60
85	5	202	G	OP1-P-O3'	5.38	117.04	105.20
85	5	439	C	N3-C4-C5	-5.38	119.75	121.90
85	5	714	G	C5-N7-C8	-5.38	101.61	104.30
85	5	924	G	N1-C2-N3	5.38	127.13	123.90
85	5	1385	C	C6-N1-C2	-5.38	118.15	120.30
85	5	1589	A	N3-C4-C5	-5.38	123.03	126.80
85	5	1656	A	N1-C6-N6	-5.38	115.37	118.60
85	5	2260	U	C2-N3-C4	-5.38	123.77	127.00
37	7	82	G	C4-C5-N7	5.38	112.95	110.80
38	8	138	A	C8-N9-C4	5.38	107.95	105.80
54	m8	59	ARG	NE-CZ-NH1	-5.38	117.61	120.30
1	2	740	A	C8-N9-C4	5.38	107.95	105.80
1	2	1466	A	N9-C4-C5	5.38	107.95	105.80
1	2	1587	U	O5'-P-OP1	-5.38	100.86	105.70
36	1	7	C	N3-C4-C5	-5.38	119.75	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	696	C	C6-N1-C1'	-5.38	114.34	120.80
36	1	913	A	C6-C5-N7	-5.38	128.53	132.30
36	1	1848	G	N3-C4-C5	-5.38	125.91	128.60
36	1	2713	U	N3-C4-C5	5.38	117.83	114.60
36	1	3013	U	N1-C2-N3	-5.38	111.67	114.90
36	1	3164	C	OP2-P-O3'	5.38	117.04	105.20
80	6	337	G	O4'-C1'-N9	-5.38	103.89	108.20
80	6	410	A	N9-C4-C5	5.38	107.95	105.80
80	6	439	U	C2-N1-C1'	-5.38	111.24	117.70
80	6	1473	U	C4-C5-C6	5.38	122.93	119.70
85	5	226	C	OP1-P-OP2	5.38	127.67	119.60
85	5	249	U	N1-C2-O2	5.38	126.57	122.80
85	5	1045	C	OP1-P-O3'	-5.38	93.36	105.20
85	5	1083	G	N7-C8-N9	-5.38	110.41	113.10
85	5	2338	C	C2-N3-C4	-5.38	117.21	119.90
85	5	2672	G	N3-C4-C5	5.38	131.29	128.60
85	5	2831	G	C5-C6-N1	5.38	114.19	111.50
1	2	271	A	O5'-P-OP2	-5.38	100.86	105.70
1	2	406	U	N3-C4-C5	-5.38	111.37	114.60
1	2	648	G	N3-C4-N9	5.38	129.23	126.00
1	2	1123	G	N1-C6-O6	-5.38	116.67	119.90
36	1	215	G	C4-C5-N7	-5.38	108.65	110.80
36	1	618	C	C2-N3-C4	-5.38	117.21	119.90
36	1	1179	A	N1-C2-N3	5.38	131.99	129.30
36	1	1481	A	C5-N7-C8	-5.38	101.21	103.90
36	1	1698	C	C5-C4-N4	5.38	123.97	120.20
36	1	1912	U	C6-N1-C2	5.38	124.23	121.00
36	1	2161	G	C4-C5-C6	-5.38	115.57	118.80
36	1	2324	A	C4-C5-N7	5.38	113.39	110.70
36	1	2965	U	C6-N1-C2	-5.38	117.77	121.00
80	6	569	C	C5-C4-N4	5.38	123.97	120.20
80	6	788	A	OP1-P-OP2	-5.38	111.53	119.60
80	6	1445	G	N1-C6-O6	5.38	123.13	119.90
80	6	1739	C	N1-C2-O2	-5.38	115.67	118.90
85	5	196	G	C2-N3-C4	5.38	114.59	111.90
85	5	587	U	C5-C4-O4	-5.38	122.67	125.90
85	5	1152	G	O4'-C1'-N9	-5.38	103.89	108.20
85	5	1169	A	C5-C6-N6	5.38	128.00	123.70
85	5	1201	C	C5-C6-N1	5.38	123.69	121.00
85	5	1316	C	C5-C4-N4	-5.38	116.43	120.20
85	5	1744	G	N1-C2-N2	5.38	121.04	116.20
85	5	2213	A	N3-C4-N9	-5.38	123.09	127.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2694	A	N7-C8-N9	5.38	116.49	113.80
85	5	3211	C	C6-N1-C2	5.38	122.45	120.30
85	5	3262	U	O5'-P-OP1	5.38	117.16	110.70
37	7	109	G	C8-N9-C1'	5.38	134.00	127.00
38	8	45	C	N3-C2-O2	-5.38	118.13	121.90
38	8	83	C	C6-N1-C2	5.38	122.45	120.30
44	17	147	LEU	CB-CG-CD2	-5.38	101.85	111.00
1	2	629	U	C5-C6-N1	-5.38	120.01	122.70
1	2	1143	A	O5'-P-OP2	-5.38	100.86	105.70
36	1	692	A	C4-C5-N7	-5.38	108.01	110.70
36	1	1005	G	N7-C8-N9	-5.38	110.41	113.10
36	1	2308	C	OP2-P-O3'	5.38	117.03	105.20
36	1	2391	G	N3-C2-N2	-5.38	116.13	119.90
36	1	2899	C	OP2-P-O3'	5.38	117.04	105.20
36	1	3358	U	C6-N1-C2	5.38	124.23	121.00
80	6	807	A	C5-N7-C8	-5.38	101.21	103.90
85	5	45	A	O5'-P-OP1	5.38	117.16	110.70
85	5	423	A	O5'-P-OP2	5.38	117.16	110.70
85	5	2821	C	P-O3'-C3'	-5.38	113.24	119.70
85	5	2868	U	N1-C2-N3	5.38	118.13	114.90
85	5	3031	G	N3-C4-C5	5.38	131.29	128.60
1	2	434	G	N7-C8-N9	-5.38	110.41	113.10
36	1	619	A	C6-C5-N7	-5.38	128.53	132.30
36	1	643	U	C2-N3-C4	5.38	130.23	127.00
36	1	763	G	N7-C8-N9	-5.38	110.41	113.10
36	1	968	G	C6-C5-N7	-5.38	127.17	130.40
36	1	1216	C	N1-C2-O2	5.38	122.13	118.90
36	1	1662	G	N1-C2-N3	5.38	127.13	123.90
36	1	2248	C	C2-N3-C4	-5.38	117.21	119.90
36	1	2536	A	C4-C5-N7	5.38	113.39	110.70
36	1	2762	A	OP1-P-O3'	5.38	117.03	105.20
36	1	2836	C	OP1-P-O3'	-5.38	93.37	105.20
36	1	3174	A	O4'-C1'-N9	5.38	112.50	108.20
36	1	3365	U	C2-N3-C4	-5.38	123.77	127.00
38	4	36	G	OP2-P-O3'	5.38	117.03	105.20
40	L3	102	LEU	CB-CG-CD2	-5.38	101.86	111.00
80	6	341	A	C6-N1-C2	-5.38	115.37	118.60
80	6	347	G	C8-N9-C1'	-5.38	120.01	127.00
80	6	502	U	N3-C2-O2	-5.38	118.44	122.20
80	6	617	U	C2-N1-C1'	5.38	124.15	117.70
80	6	652	G	N7-C8-N9	5.38	115.79	113.10
80	6	688	G	C5-C6-N1	-5.38	108.81	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1240	U	C6-N1-C2	-5.38	117.77	121.00
80	6	1516	A	C8-N9-C4	5.38	107.95	105.80
80	6	1584	G	N1-C2-N2	-5.38	111.36	116.20
80	6	1595	U	C4-C5-C6	5.38	122.93	119.70
80	6	1737	G	C5-C6-N1	5.38	114.19	111.50
85	5	45	A	C5-C6-N6	-5.38	119.40	123.70
85	5	123	A	C5-N7-C8	5.38	106.59	103.90
85	5	313	A	C5-C6-N6	-5.38	119.40	123.70
85	5	668	G	N7-C8-N9	-5.38	110.41	113.10
85	5	958	C	C5-C4-N4	-5.38	116.44	120.20
85	5	1304	A	OP2-P-O3'	5.38	117.03	105.20
85	5	2210	G	O5'-P-OP1	5.38	117.15	110.70
85	5	2789	U	N3-C2-O2	5.38	125.97	122.20
1	2	103	A	C5-N7-C8	-5.38	101.21	103.90
1	2	120	U	N3-C4-C5	-5.38	111.37	114.60
1	2	612	U	N1-C2-O2	5.38	126.56	122.80
1	2	634	G	N1-C6-O6	5.38	123.13	119.90
1	2	1159	G	C4-C5-N7	5.38	112.95	110.80
36	1	365	A	C5-N7-C8	5.38	106.59	103.90
36	1	434	U	N3-C4-O4	-5.38	115.64	119.40
36	1	560	G	O5'-P-OP2	-5.38	100.86	105.70
36	1	627	U	N3-C4-O4	5.38	123.16	119.40
36	1	1520	G	C6-C5-N7	5.38	133.63	130.40
36	1	1659	U	C2-N3-C4	5.38	130.23	127.00
36	1	1950	U	C6-N1-C2	5.38	124.23	121.00
36	1	2394	G	C5-N7-C8	5.38	106.99	104.30
36	1	2400	G	OP2-P-O3'	5.38	117.03	105.20
36	1	2520	A	C5-N7-C8	5.38	106.59	103.90
36	1	2802	A	C5-N7-C8	-5.38	101.21	103.90
36	1	3125	U	OP1-P-OP2	5.38	127.66	119.60
80	6	37	U	N3-C4-O4	-5.38	115.64	119.40
80	6	77	U	OP1-P-OP2	5.38	127.66	119.60
80	6	455	C	C4-C5-C6	-5.38	114.71	117.40
80	6	549	G	OP1-P-OP2	-5.38	111.53	119.60
80	6	764	U	C2-N3-C4	5.38	130.22	127.00
80	6	810	G	C2-N3-C4	-5.38	109.21	111.90
80	6	1272	U	C6-N1-C2	5.38	124.23	121.00
80	6	1288	G	C5-C6-N1	-5.38	108.81	111.50
80	6	1662	G	N1-C2-N3	5.38	127.13	123.90
85	5	78	U	N1-C2-O2	5.38	126.56	122.80
85	5	674	G	N1-C6-O6	-5.38	116.67	119.90
85	5	950	G	C8-N9-C1'	-5.38	120.01	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1022	U	N1-C2-O2	5.38	126.56	122.80
85	5	1317	A	N7-C8-N9	5.38	116.49	113.80
85	5	1338	C	N3-C4-N4	5.38	121.76	118.00
85	5	1456	A	N1-C2-N3	5.38	131.99	129.30
85	5	1615	C	N1-C2-O2	5.38	122.13	118.90
85	5	2404	A	C6-N1-C2	5.38	121.83	118.60
85	5	2548	C	N3-C2-O2	-5.38	118.14	121.90
85	5	2589	G	N1-C6-O6	-5.38	116.67	119.90
85	5	2709	C	N3-C4-N4	5.38	121.76	118.00
85	5	2852	C	C6-N1-C1'	-5.38	114.35	120.80
38	8	67	U	N3-C4-O4	-5.38	115.64	119.40
1	2	577	G	N3-C4-C5	5.38	131.29	128.60
1	2	1288	U	N1-C2-N3	5.38	118.12	114.90
1	2	1617	C	OP2-P-O3'	5.38	117.02	105.20
36	1	529	A	C8-N9-C4	5.38	107.95	105.80
36	1	1384	U	N1-C2-N3	5.38	118.12	114.90
36	1	1539	A	C6-N1-C2	-5.38	115.38	118.60
36	1	2170	U	N3-C2-O2	-5.38	118.44	122.20
36	1	2314	U	C5-C4-O4	-5.38	122.67	125.90
80	6	128	U	O5'-P-OP2	-5.38	100.86	105.70
80	6	489	C	N1-C2-O2	5.38	122.12	118.90
80	6	1535	U	N3-C2-O2	-5.38	118.44	122.20
80	6	1690	G	C6-N1-C2	5.38	128.32	125.10
85	5	696	C	C6-N1-C2	5.38	122.45	120.30
85	5	3173	G	C2-N3-C4	-5.38	109.21	111.90
73	o7	67	LEU	CA-CB-CG	5.38	127.66	115.30
1	2	164	A	N1-C2-N3	5.37	131.99	129.30
36	1	26	A	C5-N7-C8	5.37	106.59	103.90
36	1	72	C	O5'-P-OP2	5.37	117.15	110.70
36	1	609	G	N3-C4-N9	5.37	129.22	126.00
36	1	1408	G	N9-C4-C5	-5.37	103.25	105.40
36	1	2381	G	C5-C6-N1	-5.37	108.81	111.50
36	1	2611	U	C5-C6-N1	5.37	125.39	122.70
36	1	2751	G	C5-N7-C8	-5.37	101.61	104.30
36	1	3014	U	OP1-P-OP2	5.37	127.66	119.60
36	1	3066	U	C6-N1-C2	-5.37	117.78	121.00
36	1	3119	U	O4'-C1'-N1	5.37	112.50	108.20
80	6	44	U	C5-C6-N1	5.37	125.39	122.70
80	6	61	A	C5-C6-N6	5.37	128.00	123.70
80	6	115	G	N1-C2-N3	5.37	127.12	123.90
85	5	1061	A	P-O3'-C3'	-5.37	113.25	119.70
85	5	1130	A	N3-C4-N9	5.37	131.70	127.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1665	C	P-O3'-C3'	-5.37	113.25	119.70
85	5	1760	A	C5-N7-C8	5.37	106.59	103.90
37	7	72	A	OP1-P-OP2	5.37	127.66	119.60
37	7	88	G	N9-C4-C5	5.37	107.55	105.40
50	m4	22	LEU	CB-CG-CD2	-5.37	101.87	111.00
1	2	836	G	N3-C4-C5	5.37	131.28	128.60
1	2	839	A	C4-C5-C6	5.37	119.69	117.00
1	2	1178	C	N1-C2-O2	5.37	122.12	118.90
10	S8	110	ARG	NE-CZ-NH2	5.37	122.99	120.30
36	1	256	G	C5-C6-O6	-5.37	125.38	128.60
36	1	517	G	C4-C5-C6	5.37	122.02	118.80
36	1	941	G	C4-C5-N7	5.37	112.95	110.80
36	1	1943	C	C2-N3-C4	-5.37	117.21	119.90
36	1	2113	A	N9-C4-C5	5.37	107.95	105.80
36	1	2871	G	C4-C5-C6	-5.37	115.58	118.80
36	1	3166	C	C6-N1-C2	-5.37	118.15	120.30
80	6	554	C	N3-C4-N4	-5.37	114.24	118.00
80	6	776	G	N9-C4-C5	-5.37	103.25	105.40
80	6	1422	A	C4-C5-C6	5.37	119.69	117.00
85	5	74	G	C5-C6-O6	5.37	131.82	128.60
85	5	150	A	C4-C5-N7	5.37	113.39	110.70
85	5	350	C	C6-N1-C2	-5.37	118.15	120.30
85	5	411	U	C4-C5-C6	5.37	122.92	119.70
85	5	732	C	N1-C2-O2	5.37	122.12	118.90
85	5	973	A	N1-C6-N6	5.37	121.82	118.60
85	5	2377	G	C4-C5-N7	-5.37	108.65	110.80
85	5	2562	A	N3-C4-C5	5.37	130.56	126.80
85	5	2901	G	N1-C2-N2	-5.37	111.36	116.20
85	5	3111	U	C2-N3-C4	5.37	130.22	127.00
85	5	3139	A	OP1-P-OP2	5.37	127.66	119.60
44	17	183	ASP	CB-CG-OD1	5.37	123.14	118.30
69	o3	48	ARG	NE-CZ-NH1	5.37	122.99	120.30
1	2	255	U	C5-C6-N1	5.37	125.39	122.70
36	1	304	G	C4-C5-C6	5.37	122.02	118.80
36	1	315	C	C6-N1-C2	-5.37	118.15	120.30
36	1	393	U	C5-C6-N1	5.37	125.39	122.70
36	1	1688	U	N1-C2-N3	5.37	118.12	114.90
36	1	1722	U	N3-C4-O4	5.37	123.16	119.40
36	1	2659	G	OP1-P-O3'	5.37	117.01	105.20
37	3	86	U	O4'-C1'-N1	-5.37	103.90	108.20
80	6	163	G	N1-C2-N3	5.37	127.12	123.90
80	6	349	U	N3-C4-O4	-5.37	115.64	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	586	G	O5'-P-OP2	-5.37	100.87	105.70
80	6	1056	U	N1-C2-N3	5.37	118.12	114.90
85	5	1428	A	C6-C5-N7	5.37	136.06	132.30
85	5	2300	G	C8-N9-C4	-5.37	104.25	106.40
85	5	2820	A	O5'-P-OP2	5.37	117.14	110.70
85	5	2903	A	C4-C5-C6	5.37	119.69	117.00
1	2	718	C	C5-C6-N1	5.37	123.68	121.00
1	2	1022	A	C8-N9-C4	-5.37	103.65	105.80
36	1	1104	G	N7-C8-N9	5.37	115.78	113.10
36	1	1422	G	C6-N1-C2	-5.37	121.88	125.10
36	1	2408	U	C2-N3-C4	-5.37	123.78	127.00
36	1	3067	C	C6-N1-C2	5.37	122.45	120.30
38	4	37	A	N9-C4-C5	5.37	107.95	105.80
43	L6	85	ILE	CG1-CB-CG2	-5.37	99.59	111.40
80	6	248	U	C4-C5-C6	5.37	122.92	119.70
80	6	370	A	N1-C2-N3	5.37	131.99	129.30
80	6	1474	G	C5-N7-C8	5.37	106.98	104.30
80	6	1618	C	C5-C4-N4	5.37	123.96	120.20
85	5	96	G	C5-C6-O6	-5.37	125.38	128.60
85	5	515	C	OP1-P-OP2	5.37	127.65	119.60
85	5	763	G	N3-C2-N2	-5.37	116.14	119.90
85	5	895	A	C5-C6-N1	-5.37	115.02	117.70
85	5	1011	A	N9-C4-C5	5.37	107.95	105.80
85	5	1154	A	C6-C5-N7	5.37	136.06	132.30
85	5	2188	A	C4-C5-C6	5.37	119.68	117.00
38	8	109	A	C6-N1-C2	-5.37	115.38	118.60
1	2	595	G	OP1-P-OP2	-5.37	111.55	119.60
36	1	1608	C	C4-C5-C6	5.37	120.08	117.40
36	1	1755	C	N3-C4-N4	5.37	121.76	118.00
36	1	1934	G	N7-C8-N9	5.37	115.78	113.10
36	1	3128	G	C4-C5-C6	5.37	122.02	118.80
38	4	142	C	N1-C2-N3	5.37	122.96	119.20
85	5	393	U	N1-C2-N3	5.37	118.12	114.90
85	5	683	U	N1-C2-N3	-5.37	111.68	114.90
85	5	971	G	N7-C8-N9	-5.37	110.42	113.10
85	5	1534	A	C5-C6-N6	-5.37	119.41	123.70
85	5	1785	U	OP2-P-O3'	5.37	117.01	105.20
85	5	2155	G	P-O3'-C3'	-5.37	113.26	119.70
85	5	2358	A	C5-C6-N6	-5.37	119.41	123.70
37	7	34	C	N3-C2-O2	5.37	125.66	121.90
1	2	307	G	C2-N3-C4	-5.37	109.22	111.90
1	2	1003	A	C4-C5-N7	-5.37	108.02	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	805	G	C4-C5-N7	-5.37	108.65	110.80
36	1	992	A	OP1-P-OP2	5.37	127.65	119.60
36	1	1019	G	C4-C5-C6	-5.37	115.58	118.80
36	1	1103	A	N1-C2-N3	-5.37	126.62	129.30
36	1	1434	G	C4-C5-N7	5.37	112.95	110.80
36	1	2276	G	N9-C4-C5	-5.37	103.25	105.40
36	1	2635	A	C5-C6-N1	-5.37	115.02	117.70
36	1	2934	A	OP1-P-O3'	5.37	117.00	105.20
36	1	3001	C	OP1-P-OP2	-5.37	111.55	119.60
47	M0	156	ARG	NE-CZ-NH2	5.37	122.98	120.30
80	6	788	A	N7-C8-N9	-5.37	111.12	113.80
80	6	1130	G	N1-C2-N3	5.37	127.12	123.90
80	6	1297	G	C4-C5-N7	-5.37	108.65	110.80
85	5	217	U	C5-C6-N1	5.37	125.38	122.70
85	5	663	C	N1-C2-O2	-5.37	115.68	118.90
85	5	1553	U	C4-C5-C6	5.37	122.92	119.70
85	5	1907	C	C2-N1-C1'	5.37	124.70	118.80
85	5	2216	G	N3-C4-N9	-5.37	122.78	126.00
37	7	57	G	O5'-P-OP1	5.37	117.14	110.70
1	2	271	A	C4-C5-C6	5.36	119.68	117.00
1	2	519	C	O5'-P-OP1	5.36	117.14	110.70
1	2	1563	C	C5-C6-N1	-5.36	118.32	121.00
36	1	305	U	N3-C4-O4	-5.36	115.65	119.40
36	1	502	U	N1-C2-N3	-5.36	111.68	114.90
36	1	686	G	N3-C4-N9	-5.36	122.78	126.00
36	1	1125	U	O5'-P-OP1	-5.36	100.87	105.70
36	1	1581	C	N1-C2-O2	5.36	122.12	118.90
36	1	1747	G	C2-N3-C4	-5.36	109.22	111.90
36	1	1823	A	C8-N9-C4	-5.36	103.65	105.80
36	1	1903	U	OP1-P-O3'	5.36	117.00	105.20
36	1	2504	U	N3-C4-O4	5.36	123.16	119.40
36	1	2533	G	N3-C4-C5	5.36	131.28	128.60
36	1	2712	U	N3-C4-C5	-5.36	111.38	114.60
52	M6	58	LEU	CA-CB-CG	5.36	127.64	115.30
80	6	270	C	N1-C2-N3	-5.36	115.45	119.20
80	6	1040	G	N7-C8-N9	5.36	115.78	113.10
80	6	1748	G	N7-C8-N9	-5.36	110.42	113.10
85	5	13	A	N1-C6-N6	-5.36	115.38	118.60
85	5	192	C	C2-N1-C1'	5.36	124.70	118.80
85	5	582	G	N1-C2-N2	-5.36	111.37	116.20
85	5	1423	C	N1-C2-N3	5.36	122.95	119.20
85	5	1486	G	C5-C6-N1	-5.36	108.82	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1806	A	C5-N7-C8	-5.36	101.22	103.90
85	5	2102	U	O5'-P-OP1	-5.36	100.87	105.70
85	5	2411	U	N1-C2-O2	-5.36	119.05	122.80
85	5	2537	U	N3-C2-O2	5.36	125.95	122.20
85	5	2572	C	C5-C4-N4	5.36	123.95	120.20
85	5	2819	A	N9-C1'-C2'	-5.36	106.10	112.00
85	5	2859	U	O5'-P-OP1	5.36	117.14	110.70
85	5	2879	C	N3-C4-C5	5.36	124.05	121.90
85	5	2901	G	N3-C2-N2	5.36	123.65	119.90
85	5	2937	G	P-O3'-C3'	5.36	126.14	119.70
85	5	3149	G	C5-N7-C8	-5.36	101.62	104.30
37	7	51	A	C4-C5-C6	5.36	119.68	117.00
38	8	76	C	C5-C6-N1	5.36	123.68	121.00
1	2	142	G	C5-C6-N1	-5.36	108.82	111.50
1	2	1064	A	O4'-C1'-N9	5.36	112.49	108.20
1	2	1351	G	C5-N7-C8	-5.36	101.62	104.30
1	2	1467	G	N9-C4-C5	5.36	107.55	105.40
36	1	681	U	C5-C4-O4	-5.36	122.68	125.90
36	1	1451	C	N3-C2-O2	5.36	125.65	121.90
36	1	3022	G	N1-C6-O6	5.36	123.12	119.90
36	1	3381	U	OP2-P-O3'	5.36	117.00	105.20
37	3	88	G	N1-C2-N3	5.36	127.12	123.90
38	4	2	A	C5-N7-C8	-5.36	101.22	103.90
85	5	254	A	N1-C6-N6	-5.36	115.38	118.60
85	5	1516	C	O5'-P-OP2	-5.36	100.87	105.70
85	5	2807	U	C2-N3-C4	-5.36	123.78	127.00
85	5	2808	A	C4-C5-N7	-5.36	108.02	110.70
85	5	2828	G	N9-C4-C5	-5.36	103.25	105.40
1	2	250	C	N3-C4-N4	5.36	121.75	118.00
1	2	1443	A	C2-N3-C4	-5.36	107.92	110.60
1	2	1647	C	C2-N3-C4	5.36	122.58	119.90
36	1	873	C	N3-C2-O2	5.36	125.65	121.90
36	1	1017	C	O4'-C1'-N1	5.36	112.49	108.20
36	1	2131	A	N9-C1'-C2'	-5.36	106.10	112.00
36	1	2410	U	C6-N1-C1'	-5.36	113.69	121.20
37	3	30	G	OP1-P-OP2	-5.36	111.56	119.60
80	6	688	G	N9-C4-C5	5.36	107.54	105.40
80	6	1074	G	C5-C6-N1	-5.36	108.82	111.50
80	6	1522	U	N1-C2-N3	5.36	118.12	114.90
85	5	25	U	N1-C2-O2	-5.36	119.05	122.80
85	5	410	U	C2-N3-C4	5.36	130.22	127.00
85	5	514	G	C4-C5-N7	5.36	112.94	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	559	A	OP1-P-OP2	5.36	127.64	119.60
85	5	646	A	O5'-P-OP1	5.36	117.13	110.70
85	5	735	A	N3-C4-C5	5.36	130.55	126.80
85	5	932	U	N1-C2-N3	5.36	118.12	114.90
85	5	1332	A	C5-C6-N1	-5.36	115.02	117.70
85	5	1343	A	C4-C5-N7	5.36	113.38	110.70
85	5	1511	U	C5-C4-O4	5.36	129.12	125.90
85	5	2719	U	C2-N1-C1'	-5.36	111.27	117.70
85	5	2751	G	C2-N3-C4	-5.36	109.22	111.90
85	5	3331	U	N1-C2-N3	-5.36	111.68	114.90
85	5	3381	U	O5'-P-OP2	-5.36	100.88	105.70
1	2	137	U	C4-C5-C6	5.36	122.92	119.70
1	2	1566	A	C5-N7-C8	5.36	106.58	103.90
36	1	715	A	C4'-C3'-O3'	5.36	123.72	113.00
36	1	1076	C	N3-C4-N4	-5.36	114.25	118.00
36	1	2283	G	C5-C6-N1	-5.36	108.82	111.50
36	1	2863	G	N7-C8-N9	5.36	115.78	113.10
36	1	3183	A	P-O3'-C3'	-5.36	113.27	119.70
85	5	421	G	C5-C6-O6	5.36	131.81	128.60
85	5	719	U	N3-C4-C5	-5.36	111.39	114.60
85	5	923	C	C2-N3-C4	-5.36	117.22	119.90
85	5	2368	A	OP1-P-OP2	-5.36	111.56	119.60
38	8	111	A	OP1-P-OP2	-5.36	111.56	119.60
1	2	396	G	N9-C4-C5	-5.36	103.26	105.40
1	2	1172	A	C5-C6-N1	-5.36	115.02	117.70
1	2	1773	A	N1-C2-N3	5.36	131.98	129.30
36	1	12	A	C5-C6-N1	5.36	120.38	117.70
36	1	54	C	O4'-C1'-N1	-5.36	103.92	108.20
36	1	771	A	C6-C5-N7	-5.36	128.55	132.30
36	1	1560	G	N3-C4-N9	5.36	129.22	126.00
36	1	1929	G	C4-C5-C6	5.36	122.02	118.80
36	1	2343	C	N1-C2-O2	-5.36	115.69	118.90
36	1	2766	U	OP1-P-O3'	5.36	116.99	105.20
36	1	3019	U	N3-C4-C5	-5.36	111.39	114.60
37	3	8	G	C6-C5-N7	-5.36	127.19	130.40
47	M0	125	LEU	CA-CB-CG	5.36	127.62	115.30
80	6	371	G	O5'-P-OP2	5.36	117.13	110.70
80	6	1020	A	C8-N9-C4	-5.36	103.66	105.80
80	6	1133	A	N3-C4-C5	5.36	130.55	126.80
80	6	1384	A	C5-C6-N1	-5.36	115.02	117.70
85	5	123	A	OP1-P-OP2	-5.36	111.56	119.60
85	5	383	G	C5-N7-C8	5.36	106.98	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	763	G	C4-C5-N7	5.36	112.94	110.80
85	5	893	C	N3-C4-C5	-5.36	119.76	121.90
85	5	1087	G	OP2-P-O3'	5.36	116.99	105.20
85	5	1126	G	C5-C6-O6	5.36	131.81	128.60
85	5	1205	A	N1-C2-N3	5.36	131.98	129.30
85	5	1708	C	C2-N3-C4	-5.36	117.22	119.90
85	5	1938	U	N3-C4-C5	-5.36	111.39	114.60
85	5	2160	G	O5'-P-OP1	5.36	117.13	110.70
85	5	2167	A	OP2-P-O3'	5.36	116.98	105.20
85	5	3093	C	C5-C4-N4	5.36	123.95	120.20
85	5	3342	A	N1-C2-N3	5.36	131.98	129.30
38	8	67	U	O5'-P-OP2	5.36	117.13	110.70
38	8	72	A	C5-C6-N6	5.36	127.99	123.70
1	2	182	A	O5'-P-OP2	5.36	117.13	110.70
1	2	1110	G	N1-C2-N3	5.36	127.11	123.90
1	2	1188	C	OP1-P-O3'	5.36	116.98	105.20
1	2	1229	C	N3-C2-O2	-5.36	118.15	121.90
36	1	357	A	OP1-P-O3'	5.36	116.98	105.20
36	1	402	A	C5-C6-N1	5.36	120.38	117.70
36	1	417	A	N3-C4-C5	5.36	130.55	126.80
36	1	707	U	N3-C2-O2	5.36	125.95	122.20
36	1	805	G	N7-C8-N9	-5.36	110.42	113.10
36	1	900	G	N3-C4-N9	-5.36	122.79	126.00
36	1	946	U	OP2-P-O3'	5.36	116.98	105.20
36	1	1325	U	C6-N1-C2	5.36	124.21	121.00
36	1	1448	U	N1-C2-O2	-5.36	119.05	122.80
36	1	1583	A	C4-C5-N7	-5.36	108.02	110.70
36	1	1599	G	C8-N9-C4	5.36	108.54	106.40
36	1	2159	U	N1-C2-N3	-5.36	111.69	114.90
36	1	2425	G	C5-C6-N1	5.36	114.18	111.50
36	1	2788	C	N3-C4-N4	5.36	121.75	118.00
80	6	41	A	C5-C6-N6	-5.36	119.42	123.70
80	6	517	U	N1-C2-N3	5.36	118.11	114.90
80	6	755	A	N3-C4-C5	5.36	130.55	126.80
80	6	888	U	OP1-P-OP2	-5.36	111.57	119.60
80	6	1430	U	C2-N3-C4	5.36	130.21	127.00
80	6	1727	G	C4-N9-C1'	5.36	133.46	126.50
85	5	58	G	N1-C2-N3	-5.36	120.69	123.90
85	5	329	U	N1-C2-O2	5.36	126.55	122.80
85	5	352	A	OP1-P-O3'	5.36	116.98	105.20
85	5	865	U	OP2-P-O3'	5.36	116.98	105.20
85	5	1082	U	C2-N3-C4	5.36	130.21	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1133	A	C5-C6-N6	-5.36	119.42	123.70
85	5	1308	A	OP2-P-O3'	-5.36	93.42	105.20
85	5	1346	G	OP2-P-O3'	5.36	116.98	105.20
85	5	1753	G	C8-N9-C1'	-5.36	120.04	127.00
85	5	1906	G	OP1-P-OP2	5.36	127.63	119.60
85	5	2134	G	P-O3'-C3'	-5.36	113.27	119.70
85	5	2810	C	C2-N3-C4	5.36	122.58	119.90
85	5	3077	A	N7-C8-N9	5.36	116.48	113.80
85	5	3104	U	O4'-C1'-N1	-5.36	103.92	108.20
85	5	3318	G	C4-C5-C6	5.36	122.01	118.80
41	14	259	ASP	CB-CG-OD1	-5.36	113.48	118.30
36	1	194	U	OP1-P-O3'	5.35	116.98	105.20
36	1	1675	G	C8-N9-C4	5.35	108.54	106.40
36	1	2364	G	C8-N9-C1'	5.35	133.96	127.00
36	1	2752	U	C5-C4-O4	5.35	129.11	125.90
36	1	2901	G	O5'-P-OP1	-5.35	100.88	105.70
36	1	3136	G	C6-N1-C2	-5.35	121.89	125.10
80	6	140	A	N1-C6-N6	-5.35	115.39	118.60
80	6	754	A	P-O3'-C3'	5.35	126.12	119.70
80	6	1127	G	C8-N9-C4	5.35	108.54	106.40
85	5	1135	A	N9-C4-C5	5.35	107.94	105.80
85	5	1150	A	C4-C5-C6	-5.35	114.32	117.00
85	5	2403	G	C5-C6-O6	-5.35	125.39	128.60
1	2	414	C	N1-C2-O2	5.35	122.11	118.90
1	2	763	A	C2-N3-C4	-5.35	107.92	110.60
1	2	808	U	C6-N1-C2	-5.35	117.79	121.00
1	2	859	G	N1-C6-O6	5.35	123.11	119.90
1	2	1656	G	N1-C6-O6	5.35	123.11	119.90
1	2	1726	U	N1-C2-O2	-5.35	119.05	122.80
36	1	496	C	C2-N1-C1'	-5.35	112.91	118.80
36	1	693	A	OP1-P-OP2	5.35	127.63	119.60
36	1	1126	G	C5-N7-C8	-5.35	101.62	104.30
36	1	1485	G	C4-N9-C1'	-5.35	119.54	126.50
36	1	2283	G	N1-C6-O6	5.35	123.11	119.90
36	1	2620	G	O5'-P-OP2	5.35	117.12	110.70
36	1	2637	A	C5-N7-C8	-5.35	101.22	103.90
36	1	2796	G	C5-C6-O6	-5.35	125.39	128.60
36	1	2842	U	C5-C6-N1	-5.35	120.02	122.70
36	1	3121	U	C4-C5-C6	-5.35	116.49	119.70
80	6	199	G	O4'-C1'-N9	5.35	112.48	108.20
80	6	1144	U	N3-C2-O2	-5.35	118.45	122.20
80	6	1404	C	C4-C5-C6	5.35	120.08	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1465	C	N3-C4-N4	5.35	121.75	118.00
80	6	1580	C	C6-N1-C2	5.35	122.44	120.30
85	5	228	U	N3-C4-O4	5.35	123.15	119.40
85	5	437	G	N3-C2-N2	5.35	123.65	119.90
85	5	753	C	N3-C2-O2	5.35	125.65	121.90
85	5	1059	G	C8-N9-C1'	-5.35	120.04	127.00
85	5	2148	U	C6-N1-C2	5.35	124.21	121.00
85	5	3036	G	C8-N9-C1'	-5.35	120.04	127.00
85	5	3355	U	C5-C4-O4	5.35	129.11	125.90
1	2	377	G	N9-C4-C5	5.35	107.54	105.40
1	2	1030	G	C5-C6-O6	-5.35	125.39	128.60
36	1	205	C	C2-N3-C4	-5.35	117.22	119.90
36	1	1598	G	C5-C6-O6	5.35	131.81	128.60
36	1	2733	A	C8-N9-C4	-5.35	103.66	105.80
37	3	53	U	N3-C4-C5	-5.35	111.39	114.60
80	6	343	C	OP2-P-O3'	5.35	116.97	105.20
85	5	218	G	N1-C6-O6	-5.35	116.69	119.90
85	5	689	U	C5-C4-O4	5.35	129.11	125.90
85	5	1043	C	C5-C4-N4	-5.35	116.45	120.20
85	5	1500	G	OP2-P-O3'	5.35	116.97	105.20
85	5	2389	C	N1-C2-O2	-5.35	115.69	118.90
85	5	2800	G	N9-C4-C5	5.35	107.54	105.40
85	5	3303	G	C8-N9-C1'	5.35	133.96	127.00
1	2	594	A	C6-C5-N7	5.35	136.04	132.30
1	2	1320	A	N1-C6-N6	5.35	121.81	118.60
1	2	1469	G	C5-N7-C8	-5.35	101.62	104.30
1	2	1577	G	C5-N7-C8	5.35	106.97	104.30
36	1	292	U	OP1-P-O3'	5.35	116.97	105.20
36	1	696	C	C2-N1-C1'	5.35	124.69	118.80
36	1	978	G	O5'-P-OP1	-5.35	100.89	105.70
36	1	1080	A	C6-N1-C2	-5.35	115.39	118.60
36	1	1294	A	OP1-P-OP2	5.35	127.62	119.60
36	1	1422	G	N7-C8-N9	5.35	115.77	113.10
36	1	1791	C	N1-C2-N3	5.35	122.94	119.20
36	1	2194	G	N7-C8-N9	5.35	115.78	113.10
36	1	2270	A	C6-N1-C2	-5.35	115.39	118.60
36	1	2823	G	C2-N3-C4	-5.35	109.22	111.90
36	1	3026	G	N1-C2-N3	5.35	127.11	123.90
36	1	3198	U	O5'-P-OP2	5.35	117.12	110.70
36	1	3385	U	C2-N3-C4	-5.35	123.79	127.00
37	3	11	A	N7-C8-N9	-5.35	111.12	113.80
80	6	299	A	N9-C4-C5	-5.35	103.66	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	553	G	O5'-P-OP1	-5.35	100.89	105.70
80	6	1682	U	N1-C2-N3	-5.35	111.69	114.90
80	6	1704	U	N1-C2-N3	-5.35	111.69	114.90
80	6	1792	G	C5-C6-O6	5.35	131.81	128.60
85	5	190	U	C6-N1-C2	-5.35	117.79	121.00
85	5	228	U	OP1-P-O3'	5.35	116.97	105.20
85	5	568	G	N1-C2-N3	5.35	127.11	123.90
85	5	590	G	N7-C8-N9	5.35	115.78	113.10
85	5	606	C	C5-C6-N1	-5.35	118.33	121.00
85	5	1451	C	N1-C2-O2	5.35	122.11	118.90
85	5	1626	U	C5-C4-O4	5.35	129.11	125.90
85	5	2186	U	C2-N3-C4	5.35	130.21	127.00
85	5	2268	U	C5-C6-N1	5.35	125.38	122.70
85	5	2983	C	O5'-P-OP1	-5.35	100.89	105.70
1	2	719	C	N3-C4-C5	-5.35	119.76	121.90
1	2	1114	A	OP1-P-OP2	5.35	127.62	119.60
36	1	803	C	N1-C2-O2	-5.35	115.69	118.90
36	1	1155	C	C6-N1-C2	5.35	122.44	120.30
36	1	1545	A	C5-C6-N6	5.35	127.98	123.70
36	1	2195	C	N3-C4-N4	5.35	121.74	118.00
36	1	2234	G	N1-C6-O6	-5.35	116.69	119.90
36	1	2655	U	C5-C6-N1	5.35	125.37	122.70
36	1	3118	C	N3-C4-C5	-5.35	119.76	121.90
36	1	3158	G	C5-C6-N1	5.35	114.17	111.50
36	1	3298	C	OP1-P-OP2	-5.35	111.58	119.60
80	6	577	G	OP1-P-OP2	5.35	127.62	119.60
80	6	957	G	OP1-P-OP2	-5.35	111.58	119.60
85	5	46	U	OP1-P-OP2	5.35	127.62	119.60
85	5	164	A	C2-N3-C4	5.35	113.27	110.60
85	5	795	G	C5-N7-C8	-5.35	101.63	104.30
85	5	1397	C	C2-N3-C4	-5.35	117.23	119.90
85	5	1685	C	N3-C4-C5	5.35	124.04	121.90
85	5	2658	G	C6-C5-N7	-5.35	127.19	130.40
85	5	2945	G	C4-C5-C6	5.35	122.01	118.80
85	5	3261	C	C6-N1-C2	5.35	122.44	120.30
85	5	3354	U	C5-C4-O4	5.35	129.11	125.90
38	8	114	G	C6-N1-C2	5.35	128.31	125.10
1	2	222	A	C6-N1-C2	5.35	121.81	118.60
1	2	1319	A	C2-N3-C4	-5.35	107.93	110.60
36	1	679	U	N3-C4-C5	-5.35	111.39	114.60
36	1	1337	A	N7-C8-N9	-5.35	111.13	113.80
36	1	1767	C	N1-C2-N3	5.35	122.94	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2382	G	N1-C6-O6	5.35	123.11	119.90
36	1	2624	G	N3-C2-N2	5.35	123.64	119.90
80	6	402	C	C6-N1-C2	-5.35	118.16	120.30
80	6	749	U	N3-C4-C5	-5.35	111.39	114.60
80	6	1369	U	O5'-P-OP2	-5.35	100.89	105.70
85	5	561	C	N1-C2-O2	5.35	122.11	118.90
85	5	2239	G	N7-C8-N9	5.35	115.77	113.10
85	5	3342	A	O5'-P-OP1	-5.35	100.89	105.70
88	n4	52	THR	CA-CB-CG2	-5.35	104.92	112.40
1	2	114	C	C2-N1-C1'	5.34	124.68	118.80
36	1	203	G	N3-C2-N2	-5.34	116.16	119.90
36	1	686	G	N9-C4-C5	5.34	107.54	105.40
36	1	1193	A	C5-C6-N6	-5.34	119.42	123.70
36	1	1208	U	O4'-C1'-N1	-5.34	103.92	108.20
36	1	1334	U	OP2-P-O3'	5.34	116.96	105.20
36	1	1443	G	C5-C6-O6	-5.34	125.39	128.60
36	1	2182	A	C5-C6-N1	5.34	120.37	117.70
36	1	2575	G	N7-C8-N9	5.34	115.77	113.10
36	1	2982	A	N7-C8-N9	-5.34	111.13	113.80
36	1	3016	A	C4-C5-C6	5.34	119.67	117.00
36	1	3327	G	C4-C5-C6	5.34	122.01	118.80
38	4	49	G	O5'-P-OP1	-5.34	100.89	105.70
38	4	99	C	C2-N1-C1'	-5.34	112.92	118.80
80	6	515	A	OP1-P-OP2	5.34	127.62	119.60
80	6	680	U	N1-C2-N3	-5.34	111.69	114.90
80	6	1417	A	C8-N9-C4	5.34	107.94	105.80
85	5	27	C	N1-C2-N3	5.34	122.94	119.20
85	5	82	C	O5'-P-OP2	-5.34	100.89	105.70
85	5	97	U	OP2-P-O3'	5.34	116.96	105.20
85	5	882	A	C4-C5-C6	5.34	119.67	117.00
85	5	1319	G	N1-C2-N2	5.34	121.01	116.20
85	5	1443	G	C5-C6-N1	-5.34	108.83	111.50
85	5	2228	A	C5-C6-N1	5.34	120.37	117.70
38	8	108	C	C4-C5-C6	5.34	120.07	117.40
1	2	456	A	N7-C8-N9	5.34	116.47	113.80
1	2	612	U	O5'-P-OP2	-5.34	100.89	105.70
1	2	1621	G	OP1-P-O3'	5.34	116.95	105.20
36	1	242	C	O5'-P-OP1	-5.34	100.89	105.70
36	1	558	U	C2-N3-C4	-5.34	123.79	127.00
36	1	799	G	OP1-P-OP2	5.34	127.61	119.60
36	1	826	G	N3-C2-N2	-5.34	116.16	119.90
36	1	2431	C	N1-C2-N3	5.34	122.94	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2578	U	C5-C6-N1	-5.34	120.03	122.70
51	M5	176	LYS	CD-CE-NZ	5.34	123.99	111.70
68	O2	16	LYS	CD-CE-NZ	-5.34	99.41	111.70
80	6	113	U	N3-C2-O2	5.34	125.94	122.20
80	6	745	U	N1-C2-N3	-5.34	111.69	114.90
85	5	629	U	C2-N3-C4	5.34	130.21	127.00
85	5	1363	A	C4-C5-C6	5.34	119.67	117.00
85	5	1807	G	O5'-P-OP2	5.34	117.11	110.70
1	2	234	G	C5-C6-O6	5.34	131.81	128.60
1	2	325	G	N1-C2-N3	5.34	127.11	123.90
1	2	558	U	N3-C4-O4	5.34	123.14	119.40
1	2	773	U	C2-N3-C4	5.34	130.20	127.00
1	2	1168	U	C5-C4-O4	-5.34	122.70	125.90
36	1	666	A	OP2-P-O3'	5.34	116.95	105.20
36	1	791	A	C2-N3-C4	5.34	113.27	110.60
36	1	1126	G	C4-C5-N7	5.34	112.94	110.80
36	1	1393	A	N1-C6-N6	-5.34	115.39	118.60
36	1	1880	U	N1-C2-N3	5.34	118.11	114.90
36	1	2243	A	C5-C6-N1	5.34	120.37	117.70
36	1	2974	U	OP1-P-OP2	-5.34	111.59	119.60
36	1	3238	G	C6-C5-N7	-5.34	127.19	130.40
37	3	65	G	OP1-P-OP2	5.34	127.61	119.60
48	M1	61	ARG	NE-CZ-NH2	-5.34	117.63	120.30
64	N8	117	ARG	NE-CZ-NH1	5.34	122.97	120.30
80	6	841	U	O5'-P-OP1	-5.34	100.89	105.70
80	6	1708	U	N3-C2-O2	-5.34	118.46	122.20
85	5	268	A	N1-C6-N6	-5.34	115.39	118.60
85	5	1047	A	N3-C4-C5	5.34	130.54	126.80
85	5	1136	A	C6-C5-N7	-5.34	128.56	132.30
85	5	1298	C	C2-N3-C4	-5.34	117.23	119.90
85	5	1348	U	O5'-P-OP1	-5.34	100.89	105.70
85	5	1519	G	N1-C2-N2	5.34	121.01	116.20
85	5	1703	U	N1-C2-O2	-5.34	119.06	122.80
85	5	2147	A	C5-C6-N6	-5.34	119.43	123.70
85	5	2592	G	C5-C6-N1	-5.34	108.83	111.50
85	5	2827	U	OP1-P-O3'	5.34	116.95	105.20
85	5	2989	U	N3-C2-O2	5.34	125.94	122.20
85	5	3088	G	N1-C6-O6	-5.34	116.69	119.90
38	8	47	C	OP1-P-O3'	5.34	116.95	105.20
1	2	266	A	C8-N9-C4	5.34	107.94	105.80
1	2	375	U	OP1-P-OP2	5.34	127.61	119.60
1	2	836	G	N7-C8-N9	5.34	115.77	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1154	A	C5-C6-N1	5.34	120.37	117.70
36	1	47	C	N3-C2-O2	5.34	125.64	121.90
36	1	130	A	C4-C5-C6	-5.34	114.33	117.00
36	1	665	A	N3-C4-C5	-5.34	123.06	126.80
36	1	1093	A	C2-N3-C4	5.34	113.27	110.60
36	1	2693	C	C4-C5-C6	5.34	120.07	117.40
36	1	3083	G	N3-C4-N9	5.34	129.20	126.00
80	6	396	G	C6-C5-N7	-5.34	127.20	130.40
80	6	991	G	O5'-P-OP1	-5.34	100.89	105.70
25	d3	132	LEU	CB-CG-CD1	-5.34	101.92	111.00
85	5	678	G	C6-C5-N7	-5.34	127.20	130.40
85	5	1393	A	C4-C5-N7	-5.34	108.03	110.70
85	5	1552	G	C6-C5-N7	-5.34	127.20	130.40
85	5	1643	A	C5-N7-C8	-5.34	101.23	103.90
85	5	1908	A	C5-C6-N6	-5.34	119.43	123.70
85	5	2358	A	OP1-P-OP2	5.34	127.61	119.60
85	5	2393	G	C5-N7-C8	-5.34	101.63	104.30
85	5	2628	A	C4-C5-N7	-5.34	108.03	110.70
85	5	3059	G	N7-C8-N9	5.34	115.77	113.10
37	7	33	U	O5'-P-OP1	-5.34	100.89	105.70
38	8	141	C	C6-N1-C2	5.34	122.44	120.30
38	8	152	G	N1-C6-O6	5.34	123.10	119.90
39	12	122	ASP	CB-CG-OD2	5.34	123.11	118.30
1	2	205	U	OP1-P-OP2	5.34	127.61	119.60
1	2	719	C	C5-C6-N1	5.34	123.67	121.00
1	2	1746	A	C8-N9-C4	5.34	107.94	105.80
36	1	264	G	N1-C2-N2	5.34	121.00	116.20
36	1	854	G	N3-C2-N2	-5.34	116.16	119.90
36	1	1300	G	N1-C2-N3	5.34	127.10	123.90
36	1	1471	U	C5-C6-N1	-5.34	120.03	122.70
36	1	2503	G	C5-C6-N1	-5.34	108.83	111.50
36	1	3028	G	OP1-P-O3'	5.34	116.94	105.20
80	6	669	G	N3-C4-C5	-5.34	125.93	128.60
85	5	1900	A	N9-C4-C5	-5.34	103.67	105.80
85	5	1948	G	C5-N7-C8	-5.34	101.63	104.30
85	5	2723	U	C2-N3-C4	-5.34	123.80	127.00
40	13	193	ASP	CB-CG-OD2	5.34	123.10	118.30
1	2	155	U	C4-C5-C6	-5.34	116.50	119.70
1	2	462	G	C6-N1-C2	-5.34	121.90	125.10
1	2	1008	A	C8-N9-C4	-5.34	103.67	105.80
1	2	1567	G	N3-C2-N2	5.34	123.64	119.90
36	1	585	A	C5-C6-N6	5.34	127.97	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1534	A	C5-N7-C8	-5.34	101.23	103.90
36	1	2211	U	C4-C5-C6	5.34	122.90	119.70
36	1	3063	C	O5'-P-OP2	-5.34	100.90	105.70
36	1	3153	U	C5-C4-O4	5.34	129.10	125.90
36	1	3241	G	N9-C4-C5	5.34	107.53	105.40
37	3	73	C	N3-C4-C5	5.34	124.03	121.90
38	4	25	G	C5-N7-C8	5.34	106.97	104.30
38	4	27	U	C2-N3-C4	-5.34	123.80	127.00
62	N6	114	ASP	CB-CG-OD1	5.34	123.10	118.30
85	5	292	U	C5-C4-O4	-5.34	122.70	125.90
85	5	518	G	C8-N9-C4	-5.34	104.27	106.40
85	5	812	G	N7-C8-N9	5.34	115.77	113.10
85	5	1054	A	C6-N1-C2	5.34	121.80	118.60
85	5	1134	G	N9-C4-C5	5.34	107.53	105.40
85	5	1143	A	N3-C4-C5	5.34	130.53	126.80
85	5	1348	U	O4'-C1'-N1	5.34	112.47	108.20
85	5	1786	G	O5'-P-OP1	5.34	117.10	110.70
85	5	2271	A	C6-N1-C2	-5.34	115.40	118.60
37	7	47	C	C6-N1-C2	-5.34	118.17	120.30
53	m7	111	LYS	CD-CE-NZ	5.34	123.97	111.70
1	2	161	U	C2-N3-C4	-5.33	123.80	127.00
36	1	13	A	N1-C2-N3	5.33	131.97	129.30
36	1	324	A	C4-C5-C6	5.33	119.67	117.00
36	1	706	A	N3-C4-C5	5.33	130.53	126.80
36	1	1466	G	C4-C5-C6	5.33	122.00	118.80
36	1	1537	A	C5-N7-C8	-5.33	101.23	103.90
36	1	2558	U	C5-C4-O4	-5.33	122.70	125.90
36	1	2672	G	C2-N3-C4	-5.33	109.23	111.90
37	3	48	U	C4-C5-C6	-5.33	116.50	119.70
38	4	91	C	OP2-P-O3'	5.33	116.94	105.20
42	L5	92	LEU	CA-CB-CG	5.33	127.57	115.30
80	6	385	A	O5'-P-OP1	5.33	117.10	110.70
80	6	1082	C	C4-C5-C6	5.33	120.07	117.40
80	6	1568	C	OP1-P-OP2	-5.33	111.60	119.60
80	6	1636	C	N3-C2-O2	-5.33	118.17	121.90
85	5	1270	A	N9-C4-C5	-5.33	103.67	105.80
85	5	2357	A	N7-C8-N9	-5.33	111.13	113.80
85	5	2671	A	C4-C5-C6	5.33	119.67	117.00
85	5	2828	G	N1-C2-N3	5.33	127.10	123.90
37	7	119	U	N3-C4-O4	-5.33	115.67	119.40
1	2	201	G	C4-C5-C6	-5.33	115.60	118.80
1	2	254	A	C5-C6-N1	-5.33	115.03	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	301	A	N1-C2-N3	5.33	131.97	129.30
1	2	858	G	N3-C4-C5	-5.33	125.93	128.60
1	2	885	G	N1-C6-O6	5.33	123.10	119.90
1	2	1017	C	C2-N3-C4	-5.33	117.23	119.90
1	2	1460	G	C5-C6-O6	-5.33	125.40	128.60
36	1	134	U	O5'-P-OP2	-5.33	100.90	105.70
36	1	164	A	OP1-P-OP2	5.33	127.60	119.60
36	1	667	C	N3-C4-C5	5.33	124.03	121.90
36	1	734	C	C4-C5-C6	5.33	120.07	117.40
36	1	792	G	N9-C4-C5	5.33	107.53	105.40
36	1	2288	G	C8-N9-C4	-5.33	104.27	106.40
36	1	2418	G	C5-N7-C8	-5.33	101.63	104.30
36	1	3358	U	N3-C2-O2	-5.33	118.47	122.20
38	4	22	U	C2-N3-C4	-5.33	123.80	127.00
38	4	136	G	C8-N9-C4	5.33	108.53	106.40
80	6	73	U	N1-C2-O2	-5.33	119.07	122.80
80	6	269	G	C8-N9-C4	5.33	108.53	106.40
80	6	420	A	C5-C6-N6	5.33	127.97	123.70
80	6	446	A	N9-C4-C5	5.33	107.93	105.80
80	6	549	G	O5'-P-OP2	5.33	117.10	110.70
80	6	588	U	C2-N3-C4	5.33	130.20	127.00
80	6	933	A	C8-N9-C4	5.33	107.93	105.80
85	5	148	G	C5-C6-O6	5.33	131.80	128.60
85	5	2555	G	N3-C2-N2	-5.33	116.17	119.90
85	5	2741	C	N1-C2-N3	5.33	122.93	119.20
85	5	2819	A	N1-C2-N3	5.33	131.97	129.30
85	5	2839	G	C5-N7-C8	-5.33	101.63	104.30
68	o2	8	LYS	CD-CE-NZ	5.33	123.97	111.70
1	2	399	A	N1-C6-N6	-5.33	115.40	118.60
1	2	551	G	O5'-P-OP1	5.33	117.10	110.70
1	2	1076	A	N7-C8-N9	5.33	116.47	113.80
1	2	1744	U	C4-C5-C6	5.33	122.90	119.70
36	1	59	G	N1-C2-N2	5.33	121.00	116.20
36	1	212	G	N9-C4-C5	5.33	107.53	105.40
36	1	337	G	N1-C2-N3	5.33	127.10	123.90
36	1	386	A	C4-C5-C6	5.33	119.67	117.00
36	1	405	U	OP1-P-OP2	-5.33	111.60	119.60
36	1	984	G	N3-C4-C5	-5.33	125.94	128.60
36	1	1562	C	C5-C6-N1	-5.33	118.33	121.00
36	1	1610	G	OP1-P-OP2	-5.33	111.60	119.60
36	1	1729	A	OP1-P-OP2	-5.33	111.60	119.60
36	1	1870	C	O5'-P-OP1	-5.33	100.90	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2439	A	C6-N1-C2	5.33	121.80	118.60
36	1	2691	A	C6-C5-N7	5.33	136.03	132.30
36	1	2947	G	C2-N3-C4	-5.33	109.23	111.90
36	1	2985	C	N1-C2-O2	5.33	122.10	118.90
36	1	3150	A	N1-C6-N6	5.33	121.80	118.60
80	6	405	C	C2-N1-C1'	-5.33	112.94	118.80
80	6	680	U	N3-C4-C5	5.33	117.80	114.60
80	6	918	U	N3-C2-O2	5.33	125.93	122.20
85	5	640	U	O5'-P-OP1	5.33	117.10	110.70
85	5	897	U	OP1-P-OP2	5.33	127.60	119.60
85	5	984	G	C8-N9-C1'	-5.33	120.07	127.00
85	5	1103	A	N1-C6-N6	-5.33	115.40	118.60
85	5	1427	U	C5-C6-N1	5.33	125.37	122.70
85	5	1620	U	OP2-P-O3'	5.33	116.93	105.20
85	5	2844	C	N1-C2-O2	-5.33	115.70	118.90
38	8	92	A	OP1-P-OP2	5.33	127.60	119.60
1	2	71	A	C5-C6-N6	-5.33	119.44	123.70
1	2	89	G	N3-C2-N2	-5.33	116.17	119.90
1	2	113	U	OP2-P-O3'	5.33	116.93	105.20
1	2	961	A	C5-C6-N6	5.33	127.96	123.70
1	2	1027	U	N1-C2-O2	-5.33	119.07	122.80
36	1	201	A	OP1-P-O3'	5.33	116.93	105.20
36	1	1361	U	N3-C4-C5	-5.33	111.40	114.60
36	1	2908	G	N1-C2-N3	5.33	127.10	123.90
80	6	851	U	C5-C6-N1	-5.33	120.03	122.70
85	5	94	G	O5'-P-OP2	5.33	117.10	110.70
85	5	96	G	N1-C2-N3	5.33	127.10	123.90
85	5	1459	C	C4-C5-C6	5.33	120.06	117.40
85	5	2516	U	N1-C2-O2	-5.33	119.07	122.80
1	2	123	G	C8-N9-C4	5.33	108.53	106.40
1	2	609	U	N1-C2-N3	5.33	118.10	114.90
1	2	779	A	N7-C8-N9	5.33	116.46	113.80
36	1	327	A	O5'-P-OP2	-5.33	100.90	105.70
36	1	1002	A	OP1-P-O3'	5.33	116.92	105.20
36	1	1653	G	C6-C5-N7	-5.33	127.20	130.40
36	1	1653	G	N9-C4-C5	-5.33	103.27	105.40
36	1	1896	A	C5-C6-N1	5.33	120.36	117.70
36	1	2144	A	C6-C5-N7	5.33	136.03	132.30
36	1	2656	A	C6-N1-C2	-5.33	115.40	118.60
36	1	3242	G	C5-C6-O6	-5.33	125.40	128.60
80	6	581	U	C6-N1-C2	5.33	124.20	121.00
80	6	779	U	N1-C2-O2	5.33	126.53	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	911	U	N1-C2-O2	5.33	126.53	122.80
80	6	1054	U	O5'-P-OP1	-5.33	100.91	105.70
80	6	1182	U	C4-C5-C6	5.33	122.90	119.70
80	6	1498	G	N9-C4-C5	5.33	107.53	105.40
80	6	1718	G	C4-C5-C6	5.33	122.00	118.80
85	5	96	G	N3-C2-N2	-5.33	116.17	119.90
85	5	833	G	N7-C8-N9	-5.33	110.44	113.10
85	5	971	G	OP2-P-O3'	5.33	116.92	105.20
85	5	1355	A	N3-C4-C5	5.33	130.53	126.80
85	5	1367	G	C4-N9-C1'	5.33	133.43	126.50
85	5	1594	A	OP1-P-OP2	5.33	127.59	119.60
85	5	1657	C	N3-C4-N4	5.33	121.73	118.00
85	5	2180	G	O5'-P-OP2	-5.33	100.91	105.70
85	5	2583	C	C2-N3-C4	5.33	122.56	119.90
1	2	1429	A	N9-C4-C5	5.33	107.93	105.80
36	1	645	A	N3-C4-N9	5.33	131.66	127.40
36	1	666	A	N3-C4-C5	-5.33	123.07	126.80
36	1	804	C	C6-N1-C2	5.33	122.43	120.30
36	1	1211	U	O5'-P-OP2	-5.33	100.91	105.70
36	1	1760	A	C4-C5-C6	-5.33	114.34	117.00
36	1	2824	G	C5-C6-O6	5.33	131.80	128.60
80	6	594	A	OP2-P-O3'	5.33	116.92	105.20
85	5	1231	A	C5-C6-N1	-5.33	115.04	117.70
85	5	1891	A	C4-C5-C6	5.33	119.66	117.00
85	5	2385	G	N7-C8-N9	-5.33	110.44	113.10
85	5	2430	A	C6-C5-N7	-5.33	128.57	132.30
1	2	185	U	N3-C4-O4	-5.33	115.67	119.40
1	2	305	C	C6-N1-C2	-5.33	118.17	120.30
36	1	501	A	N7-C8-N9	-5.33	111.14	113.80
36	1	669	U	OP1-P-OP2	-5.33	111.61	119.60
36	1	1306	G	C8-N9-C1'	-5.33	120.08	127.00
36	1	1387	G	C6-N1-C2	-5.33	121.91	125.10
36	1	1536	G	N1-C6-O6	-5.33	116.70	119.90
36	1	1588	A	C5-C6-N1	5.33	120.36	117.70
36	1	1612	A	OP1-P-OP2	5.33	127.59	119.60
36	1	1947	G	C4-C5-C6	5.33	122.00	118.80
36	1	2630	C	O5'-P-OP1	-5.33	100.91	105.70
36	1	3036	G	C5-C6-N1	5.33	114.16	111.50
56	N0	59	VAL	CG1-CB-CG2	-5.33	102.38	110.90
80	6	56	U	O5'-P-OP1	5.33	117.09	110.70
80	6	96	G	C5-C6-O6	5.33	131.79	128.60
80	6	794	U	N1-C2-N3	-5.33	111.70	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	913	G	N3-C2-N2	-5.33	116.17	119.90
80	6	975	C	C5-C6-N1	-5.33	118.34	121.00
80	6	994	G	OP2-P-O3'	5.33	116.92	105.20
80	6	1471	A	C5-N7-C8	-5.33	101.24	103.90
85	5	516	A	O5'-P-OP2	-5.33	100.91	105.70
85	5	834	U	O5'-P-OP2	-5.33	100.91	105.70
85	5	895	A	N7-C8-N9	5.33	116.46	113.80
85	5	1135	A	OP2-P-O3'	5.33	116.92	105.20
85	5	1524	A	C6-C5-N7	-5.33	128.57	132.30
85	5	1813	A	OP2-P-O3'	5.33	116.92	105.20
85	5	2762	A	OP2-P-O3'	5.33	116.92	105.20
85	5	2887	A	C4-C5-N7	-5.33	108.04	110.70
85	5	3206	C	N1-C2-N3	5.33	122.93	119.20
85	5	3266	G	N1-C2-N2	5.33	120.99	116.20
85	5	3290	G	C8-N9-C4	-5.33	104.27	106.40
38	8	25	G	N3-C2-N2	-5.33	116.17	119.90
46	19	48	VAL	CG1-CB-CG2	-5.33	102.38	110.90
1	2	103	A	C6-C5-N7	-5.32	128.57	132.30
1	2	180	A	N1-C2-N3	-5.32	126.64	129.30
1	2	212	U	N1-C2-O2	5.32	126.53	122.80
1	2	1764	A	C5-C6-N6	5.32	127.96	123.70
36	1	239	G	C4-C5-N7	5.32	112.93	110.80
36	1	712	G	C8-N9-C4	5.32	108.53	106.40
36	1	848	A	OP1-P-OP2	-5.32	111.62	119.60
36	1	1218	U	N3-C4-O4	-5.32	115.67	119.40
36	1	1875	G	C2-N3-C4	-5.32	109.24	111.90
36	1	1924	U	C5-C4-O4	5.32	129.09	125.90
36	1	2206	G	N1-C2-N3	-5.32	120.71	123.90
36	1	2782	U	OP2-P-O3'	5.32	116.91	105.20
36	1	2957	G	O4'-C1'-N9	-5.32	103.94	108.20
38	4	76	C	OP1-P-O3'	-5.32	93.49	105.20
80	6	531	C	N3-C4-N4	5.32	121.73	118.00
80	6	542	A	N9-C4-C5	5.32	107.93	105.80
80	6	1073	G	N3-C4-N9	-5.32	122.81	126.00
85	5	61	A	C6-C5-N7	-5.32	128.57	132.30
85	5	160	G	C2-N3-C4	-5.32	109.24	111.90
85	5	421	G	C5-N7-C8	-5.32	101.64	104.30
85	5	604	G	N7-C8-N9	5.32	115.76	113.10
85	5	936	A	O4'-C1'-N9	5.32	112.46	108.20
85	5	1468	A	C8-N9-C4	-5.32	103.67	105.80
85	5	3332	U	C2-N3-C4	-5.32	123.81	127.00
38	8	149	A	O5'-P-OP1	-5.32	100.91	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	470	A	C5-C6-N1	-5.32	115.04	117.70
36	1	1077	U	N1-C1'-C2'	-5.32	106.14	112.00
36	1	2143	A	C6-N1-C2	-5.32	115.41	118.60
36	1	2366	C	OP2-P-O3'	5.32	116.91	105.20
36	1	2787	G	N7-C8-N9	5.32	115.76	113.10
38	4	1	A	N3-C4-N9	-5.32	123.14	127.40
85	5	344	A	OP1-P-OP2	-5.32	111.62	119.60
85	5	1770	G	C5-C6-N1	5.32	114.16	111.50
85	5	2908	G	N1-C2-N2	5.32	120.99	116.20
1	2	773	U	N3-C4-C5	-5.32	111.41	114.60
1	2	1108	A	N1-C2-N3	5.32	131.96	129.30
1	2	1284	U	O5'-P-OP2	-5.32	100.91	105.70
1	2	1731	G	N9-C4-C5	5.32	107.53	105.40
36	1	318	A	C5-N7-C8	-5.32	101.24	103.90
36	1	696	C	C5-C4-N4	-5.32	116.48	120.20
36	1	709	A	C8-N9-C1'	-5.32	118.12	127.70
36	1	1009	A	N1-C6-N6	-5.32	115.41	118.60
36	1	1134	G	C4-C5-C6	5.32	121.99	118.80
36	1	1814	A	C4-C5-N7	5.32	113.36	110.70
36	1	2599	U	N1-C2-N3	5.32	118.09	114.90
36	1	2607	G	C8-N9-C1'	-5.32	120.08	127.00
36	1	3003	G	N3-C2-N2	-5.32	116.18	119.90
36	1	3056	U	O5'-P-OP2	5.32	117.08	110.70
36	1	3240	C	C6-N1-C2	-5.32	118.17	120.30
38	4	59	A	P-O3'-C3'	5.32	126.08	119.70
41	L4	194	TYR	CB-CG-CD2	5.32	124.19	121.00
80	6	925	G	N3-C2-N2	-5.32	116.18	119.90
85	5	571	U	C5-C4-O4	-5.32	122.71	125.90
85	5	707	U	N3-C4-C5	-5.32	111.41	114.60
85	5	727	G	N3-C4-C5	5.32	131.26	128.60
85	5	1005	G	C8-N9-C4	5.32	108.53	106.40
85	5	1301	A	C6-N1-C2	-5.32	115.41	118.60
85	5	1744	G	N3-C4-N9	-5.32	122.81	126.00
85	5	1874	A	N1-C2-N3	5.32	131.96	129.30
85	5	2644	C	C6-N1-C2	5.32	122.43	120.30
85	5	2818	U	O4'-C1'-N1	-5.32	103.94	108.20
85	5	2910	A	OP2-P-O3'	5.32	116.91	105.20
85	5	3128	G	C6-N1-C2	-5.32	121.91	125.10
1	2	1116	A	C5-C6-N6	5.32	127.95	123.70
1	2	1583	A	C5'-C4'-O4'	-5.32	102.72	109.10
1	2	1603	C	O5'-P-OP1	-5.32	100.91	105.70
36	1	148	G	N3-C2-N2	-5.32	116.18	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	357	A	N1-C2-N3	5.32	131.96	129.30
36	1	498	A	C2-N3-C4	5.32	113.26	110.60
36	1	684	G	C6-C5-N7	-5.32	127.21	130.40
36	1	1448	U	N1-C2-N3	5.32	118.09	114.90
36	1	1514	G	N7-C8-N9	5.32	115.76	113.10
36	1	1762	C	N3-C4-C5	-5.32	119.77	121.90
36	1	2209	U	O4'-C1'-N1	5.32	112.45	108.20
36	1	2818	U	N3-C2-O2	5.32	125.92	122.20
36	1	2871	G	C5-C6-N1	5.32	114.16	111.50
38	4	105	A	C6-C5-N7	-5.32	128.58	132.30
64	N8	46	ASP	CB-CG-OD2	5.32	123.09	118.30
80	6	356	G	N9-C4-C5	5.32	107.53	105.40
85	5	439	C	N3-C4-N4	5.32	121.72	118.00
85	5	2790	A	C4-C5-N7	5.32	113.36	110.70
1	2	1	U	P-O3'-C3'	-5.32	113.32	119.70
1	2	3	U	O5'-P-OP1	-5.32	100.92	105.70
1	2	176	C	N3-C2-O2	5.32	125.62	121.90
1	2	403	G	N1-C6-O6	-5.32	116.71	119.90
1	2	568	G	O5'-P-OP2	-5.32	100.91	105.70
1	2	570	A	OP1-P-O3'	5.32	116.90	105.20
1	2	1171	G	N9-C4-C5	5.32	107.53	105.40
1	2	1744	U	P-O3'-C3'	5.32	126.08	119.70
36	1	22	G	N9-C4-C5	5.32	107.53	105.40
36	1	791	A	C6-N1-C2	-5.32	115.41	118.60
36	1	835	G	C5-C6-O6	5.32	131.79	128.60
36	1	856	G	N3-C4-N9	5.32	129.19	126.00
36	1	1003	A	C5-C6-N6	5.32	127.95	123.70
36	1	1023	C	N3-C2-O2	5.32	125.62	121.90
36	1	1284	C	C6-N1-C2	-5.32	118.17	120.30
36	1	1285	G	N1-C2-N2	-5.32	111.42	116.20
36	1	1610	G	O5'-P-OP1	5.32	117.08	110.70
36	1	1836	C	C5-C6-N1	5.32	123.66	121.00
36	1	2156	C	C5-C6-N1	-5.32	118.34	121.00
36	1	2221	G	C8-N9-C4	5.32	108.53	106.40
36	1	2296	A	N1-C6-N6	-5.32	115.41	118.60
36	1	2362	C	N3-C4-N4	5.32	121.72	118.00
36	1	2430	A	N1-C2-N3	5.32	131.96	129.30
36	1	2848	G	OP2-P-O3'	5.32	116.90	105.20
36	1	3011	A	N1-C2-N3	5.32	131.96	129.30
36	1	3244	A	C6-C5-N7	-5.32	128.58	132.30
37	3	117	A	C2-N3-C4	-5.32	107.94	110.60
38	4	122	U	N3-C2-O2	-5.32	118.48	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	412	A	C6-N1-C2	-5.32	115.41	118.60
80	6	1557	U	N3-C2-O2	-5.32	118.48	122.20
85	5	781	G	N9-C4-C5	5.32	107.53	105.40
85	5	1203	A	N3-C4-C5	-5.32	123.08	126.80
85	5	1763	U	C5-C6-N1	5.32	125.36	122.70
85	5	2425	G	O5'-P-OP2	-5.32	100.91	105.70
85	5	2757	U	C2-N1-C1'	5.32	124.08	117.70
85	5	2995	A	O4'-C1'-N9	5.32	112.45	108.20
85	5	3140	G	C4-N9-C1'	5.32	133.41	126.50
85	5	3148	U	OP2-P-O3'	5.32	116.90	105.20
85	5	3264	G	C6-C5-N7	-5.32	127.21	130.40
85	5	3383	G	C6-C5-N7	-5.32	127.21	130.40
38	8	22	U	C6-N1-C2	5.32	124.19	121.00
1	2	255	U	O5'-P-OP2	5.32	117.08	110.70
1	2	475	A	C8-N9-C4	-5.32	103.67	105.80
1	2	648	G	C5-C6-N1	5.32	114.16	111.50
1	2	1168	U	N1-C2-O2	5.32	126.52	122.80
36	1	46	U	O5'-P-OP1	5.32	117.08	110.70
36	1	148	G	C5-C6-O6	5.32	131.79	128.60
36	1	572	A	OP1-P-OP2	5.32	127.58	119.60
36	1	604	G	C5-N7-C8	-5.32	101.64	104.30
36	1	1303	A	C4-C5-C6	-5.32	114.34	117.00
36	1	1445	U	C6-N1-C2	-5.32	117.81	121.00
36	1	2113	A	C6-N1-C2	-5.32	115.41	118.60
36	1	2157	G	N9-C4-C5	-5.32	103.27	105.40
36	1	2224	A	N9-C4-C5	5.32	107.93	105.80
36	1	3120	C	OP1-P-O3'	5.32	116.89	105.20
37	3	111	U	C5-C6-N1	-5.32	120.04	122.70
80	6	293	U	N1-C2-O2	-5.32	119.08	122.80
80	6	447	U	C6-N1-C2	-5.32	117.81	121.00
80	6	504	U	C6-N1-C2	-5.32	117.81	121.00
80	6	535	A	OP1-P-OP2	-5.32	111.63	119.60
80	6	702	G	C6-C5-N7	-5.32	127.21	130.40
80	6	875	G	C8-N9-C4	-5.32	104.27	106.40
80	6	986	G	N9-C4-C5	5.32	107.53	105.40
80	6	1627	U	O5'-P-OP2	5.32	117.08	110.70
85	5	173	G	N3-C2-N2	5.32	123.62	119.90
85	5	280	U	N1-C2-N3	5.32	118.09	114.90
85	5	728	G	O5'-P-OP2	5.32	117.08	110.70
85	5	901	G	C6-N1-C2	-5.32	121.91	125.10
85	5	2381	G	C4-N9-C1'	5.32	133.41	126.50
85	5	2414	G	OP2-P-O3'	5.32	116.89	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2531	C	N3-C2-O2	-5.32	118.18	121.90
85	5	2814	G	N7-C8-N9	-5.32	110.44	113.10
85	5	3024	A	C8-N9-C4	-5.32	103.67	105.80
85	5	3219	G	O5'-P-OP1	5.32	117.08	110.70
85	5	3276	G	O5'-P-OP1	-5.32	100.92	105.70
38	8	21	C	C4-C5-C6	5.32	120.06	117.40
42	15	140	ARG	NE-CZ-NH2	-5.32	117.64	120.30
1	2	169	A	N7-C8-N9	5.31	116.46	113.80
1	2	428	A	OP2-P-O3'	5.31	116.89	105.20
36	1	1121	U	C2-N1-C1'	-5.31	111.32	117.70
36	1	2560	C	N3-C4-C5	5.31	124.03	121.90
36	1	2607	G	OP1-P-OP2	5.31	127.57	119.60
80	6	335	U	N3-C4-C5	-5.31	111.41	114.60
80	6	1016	C	C2-N1-C1'	5.31	124.64	118.80
80	6	1614	A	C8-N9-C4	5.31	107.93	105.80
85	5	113	C	C4-C5-C6	-5.31	114.74	117.40
85	5	739	G	OP1-P-O3'	5.31	116.89	105.20
85	5	3101	G	OP1-P-OP2	5.31	127.57	119.60
85	5	3247	G	O5'-P-OP1	5.31	117.08	110.70
38	8	30	C	C5-C4-N4	-5.31	116.48	120.20
62	n6	54	ASP	CB-CG-OD2	5.31	123.08	118.30
1	2	75	U	N1-C2-O2	5.31	126.52	122.80
1	2	347	G	C5-N7-C8	-5.31	101.64	104.30
1	2	946	A	C2-N3-C4	5.31	113.26	110.60
1	2	1079	C	C2-N1-C1'	5.31	124.64	118.80
1	2	1082	U	C5-C4-O4	5.31	129.09	125.90
36	1	325	A	OP2-P-O3'	5.31	116.89	105.20
36	1	377	A	OP1-P-OP2	5.31	127.57	119.60
36	1	411	U	C5-C4-O4	5.31	129.09	125.90
36	1	762	U	OP1-P-O3'	-5.31	93.51	105.20
36	1	953	G	N1-C6-O6	5.31	123.09	119.90
36	1	1012	G	N1-C6-O6	-5.31	116.71	119.90
36	1	1155	C	O5'-P-OP1	-5.31	100.92	105.70
36	1	1622	U	OP1-P-OP2	-5.31	111.63	119.60
36	1	1661	G	C8-N9-C1'	-5.31	120.09	127.00
36	1	2104	A	N9-C4-C5	-5.31	103.67	105.80
36	1	2521	U	N3-C4-C5	5.31	117.79	114.60
36	1	2780	A	N1-C6-N6	-5.31	115.41	118.60
36	1	2904	U	C5-C4-O4	5.31	129.09	125.90
36	1	2952	G	N3-C2-N2	-5.31	116.18	119.90
36	1	3364	C	C5-C6-N1	-5.31	118.34	121.00
37	3	84	A	C6-N1-C2	-5.31	115.41	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	101	U	N3-C4-C5	-5.31	111.41	114.60
78	Q2	8	ARG	NE-CZ-NH1	5.31	122.96	120.30
80	6	397	A	C5-N7-C8	-5.31	101.24	103.90
80	6	504	U	N3-C4-C5	-5.31	111.41	114.60
80	6	611	U	C4-C5-C6	5.31	122.89	119.70
80	6	651	G	C4-C5-N7	5.31	112.92	110.80
80	6	1368	G	N1-C6-O6	-5.31	116.71	119.90
85	5	1189	C	N1-C2-O2	-5.31	115.71	118.90
85	5	1363	A	N1-C6-N6	-5.31	115.41	118.60
85	5	1431	G	N1-C2-N3	-5.31	120.71	123.90
85	5	1610	G	C5-N7-C8	5.31	106.96	104.30
85	5	1614	C	C2-N3-C4	-5.31	117.24	119.90
85	5	1627	U	N1-C2-O2	-5.31	119.08	122.80
85	5	2526	C	O5'-P-OP1	5.31	117.07	110.70
85	5	2801	A	O5'-P-OP2	-5.31	100.92	105.70
85	5	2982	A	N1-C6-N6	-5.31	115.41	118.60
85	5	3008	A	C4-C5-N7	-5.31	108.04	110.70
85	5	3272	C	N1-C2-O2	-5.31	115.71	118.90
85	5	3280	U	OP1-P-OP2	-5.31	111.63	119.60
37	7	19	C	N3-C2-O2	-5.31	118.18	121.90
37	7	56	A	C6-N1-C2	-5.31	115.41	118.60
38	8	84	C	N3-C4-C5	-5.31	119.78	121.90
75	o9	29	LEU	CA-CB-CG	5.31	127.52	115.30
1	2	1181	G	C8-N9-C4	-5.31	104.28	106.40
1	2	1764	A	C2-N3-C4	-5.31	107.94	110.60
36	1	837	A	OP1-P-OP2	-5.31	111.63	119.60
36	1	1131	G	C4-C5-N7	-5.31	108.67	110.80
36	1	1394	A	O5'-P-OP2	-5.31	100.92	105.70
36	1	2123	G	OP1-P-O3'	5.31	116.89	105.20
36	1	3208	G	OP2-P-O3'	5.31	116.88	105.20
38	4	128	U	OP1-P-OP2	5.31	127.57	119.60
38	4	132	G	N1-C2-N3	-5.31	120.71	123.90
80	6	319	U	C5-C6-N1	5.31	125.36	122.70
80	6	570	A	N1-C6-N6	5.31	121.79	118.60
80	6	910	C	N3-C4-C5	-5.31	119.78	121.90
80	6	1421	A	C5-C6-N6	5.31	127.95	123.70
80	6	1512	G	N1-C2-N3	5.31	127.09	123.90
85	5	568	G	C5-N7-C8	-5.31	101.64	104.30
85	5	1040	A	C8-N9-C4	5.31	107.92	105.80
85	5	1249	G	N1-C6-O6	5.31	123.09	119.90
85	5	2254	U	OP2-P-O3'	5.31	116.89	105.20
85	5	2756	C	C6-N1-C1'	5.31	127.17	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3373	U	N3-C4-O4	-5.31	115.68	119.40
1	2	97	C	C4-C5-C6	5.31	120.06	117.40
1	2	151	G	O4'-C1'-N9	5.31	112.45	108.20
1	2	437	A	C5-C6-N1	-5.31	115.05	117.70
1	2	658	C	C2-N3-C4	5.31	122.56	119.90
1	2	1044	A	C5-N7-C8	5.31	106.56	103.90
1	2	1383	A	N9-C4-C5	-5.31	103.68	105.80
1	2	1776	G	N1-C2-N3	5.31	127.09	123.90
36	1	225	C	N3-C4-N4	5.31	121.72	118.00
36	1	667	C	C5-C6-N1	5.31	123.66	121.00
36	1	784	A	OP2-P-O3'	5.31	116.88	105.20
36	1	915	A	OP1-P-O3'	5.31	116.88	105.20
36	1	1783	U	N3-C4-C5	-5.31	111.41	114.60
36	1	2156	C	OP1-P-OP2	5.31	127.56	119.60
36	1	2639	G	N3-C4-C5	-5.31	125.95	128.60
42	L5	273	ARG	NE-CZ-NH1	-5.31	117.65	120.30
80	6	331	A	C5-C6-N1	-5.31	115.05	117.70
80	6	1188	G	C5-C6-O6	-5.31	125.42	128.60
85	5	63	A	N7-C8-N9	-5.31	111.14	113.80
85	5	341	G	C8-N9-C4	-5.31	104.28	106.40
85	5	342	A	C5-C6-N6	-5.31	119.45	123.70
85	5	701	G	C8-N9-C1'	-5.31	120.10	127.00
85	5	746	A	C5-C6-N6	5.31	127.95	123.70
85	5	900	G	N3-C2-N2	-5.31	116.18	119.90
85	5	974	G	N3-C4-C5	-5.31	125.94	128.60
85	5	1043	C	C5-C6-N1	-5.31	118.34	121.00
85	5	1883	A	OP2-P-O3'	5.31	116.88	105.20
85	5	1895	A	N3-C4-C5	5.31	130.52	126.80
85	5	2944	U	C5-C6-N1	5.31	125.36	122.70
85	5	3144	G	OP2-P-O3'	5.31	116.88	105.20
85	5	3337	G	O5'-P-OP2	-5.31	100.92	105.70
85	5	3362	A	O4'-C1'-N9	5.31	112.45	108.20
37	7	13	A	N1-C6-N6	-5.31	115.41	118.60
1	2	848	A	N1-C2-N3	5.31	131.95	129.30
1	2	1664	A	C5-C6-N6	5.31	127.95	123.70
36	1	219	A	N9-C4-C5	5.31	107.92	105.80
36	1	678	G	C2-N3-C4	-5.31	109.25	111.90
36	1	794	U	OP2-P-O3'	5.31	116.88	105.20
36	1	840	C	OP1-P-O3'	-5.31	93.52	105.20
36	1	844	G	N1-C6-O6	5.31	123.08	119.90
36	1	1030	A	N7-C8-N9	-5.31	111.15	113.80
36	1	1295	G	C2-N3-C4	5.31	114.55	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1586	G	O5'-P-OP2	-5.31	100.92	105.70
36	1	1655	G	C8-N9-C4	5.31	108.52	106.40
36	1	2105	G	N1-C6-O6	5.31	123.08	119.90
36	1	2112	U	O5'-P-OP1	-5.31	100.92	105.70
36	1	3288	G	N9-C4-C5	-5.31	103.28	105.40
36	1	3393	U	N3-C2-O2	5.31	125.92	122.20
37	3	47	C	C6-N1-C2	5.31	122.42	120.30
37	3	120	C	O4'-C1'-N1	5.31	112.44	108.20
38	4	30	C	O5'-P-OP2	-5.31	100.92	105.70
80	6	770	A	C6-N1-C2	-5.31	115.42	118.60
80	6	915	A	N7-C8-N9	5.31	116.45	113.80
80	6	1188	G	N1-C6-O6	5.31	123.08	119.90
4	s2	207	LEU	CA-CB-CG	5.31	127.51	115.30
8	s6	121	LEU	CB-CG-CD2	-5.31	101.98	111.00
85	5	145	G	N7-C8-N9	5.31	115.75	113.10
85	5	169	U	C4-C5-C6	-5.31	116.52	119.70
85	5	248	U	N3-C2-O2	-5.31	118.48	122.20
85	5	567	G	N1-C2-N3	5.31	127.08	123.90
85	5	929	A	C8-N9-C1'	-5.31	118.15	127.70
85	5	2741	C	OP1-P-OP2	-5.31	111.64	119.60
85	5	3356	G	O5'-P-OP1	-5.31	100.92	105.70
46	19	38	LEU	CB-CG-CD2	-5.31	101.98	111.00
1	2	422	G	OP1-P-OP2	-5.31	111.64	119.60
1	2	1488	A	OP1-P-OP2	5.31	127.56	119.60
36	1	697	A	C6-C5-N7	-5.31	128.59	132.30
36	1	1667	A	N1-C6-N6	-5.31	115.42	118.60
36	1	1821	U	N3-C2-O2	5.31	125.91	122.20
37	3	25	G	N3-C4-C5	-5.31	125.95	128.60
80	6	606	A	N7-C8-N9	5.31	116.45	113.80
80	6	1536	G	N3-C2-N2	5.31	123.61	119.90
80	6	1626	U	C2-N3-C4	-5.31	123.82	127.00
85	5	925	A	O5'-P-OP1	-5.31	100.92	105.70
85	5	1189	C	OP1-P-O3'	5.31	116.87	105.20
85	5	1844	C	OP2-P-O3'	5.31	116.87	105.20
85	5	2292	U	C5-C6-N1	5.31	125.35	122.70
85	5	3059	G	C5-C6-O6	5.31	131.78	128.60
37	7	20	A	C5-N7-C8	5.31	106.55	103.90
1	2	467	G	N1-C2-N3	5.30	127.08	123.90
1	2	768	U	OP1-P-O3'	5.30	116.87	105.20
1	2	889	A	OP1-P-OP2	-5.30	111.64	119.60
1	2	932	C	N3-C2-O2	-5.30	118.19	121.90
1	2	1082	U	N3-C4-C5	-5.30	111.42	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1094	G	O4'-C1'-N9	-5.30	103.96	108.20
36	1	374	A	N9-C1'-C2'	5.30	120.89	114.00
36	1	1240	A	C2-N3-C4	5.30	113.25	110.60
36	1	1631	C	N3-C4-N4	-5.30	114.29	118.00
36	1	1730	G	N1-C2-N2	-5.30	111.43	116.20
36	1	1902	G	C5-N7-C8	-5.30	101.65	104.30
36	1	2381	G	N1-C6-O6	5.30	123.08	119.90
36	1	2552	C	OP1-P-OP2	-5.30	111.64	119.60
41	L4	197	ARG	NE-CZ-NH2	5.30	122.95	120.30
80	6	73	U	C2-N1-C1'	-5.30	111.33	117.70
80	6	252	U	C4-C5-C6	5.30	122.88	119.70
80	6	448	C	P-O3'-C3'	-5.30	113.33	119.70
85	5	344	A	N9-C4-C5	5.30	107.92	105.80
85	5	1184	A	O5'-P-OP1	5.30	117.07	110.70
85	5	1294	A	N9-C4-C5	5.30	107.92	105.80
85	5	1809	A	C6-C5-N7	-5.30	128.59	132.30
85	5	2514	U	N3-C2-O2	5.30	125.91	122.20
85	5	2943	G	C4-N9-C1'	5.30	133.40	126.50
85	5	3019	U	O5'-P-OP2	5.30	117.07	110.70
85	5	3094	A	N1-C6-N6	5.30	121.78	118.60
37	7	53	U	N1-C2-N3	5.30	118.08	114.90
37	7	101	G	C5-C6-O6	-5.30	125.42	128.60
38	8	102	U	N3-C2-O2	5.30	125.91	122.20
59	n3	129	VAL	CG1-CB-CG2	-5.30	102.41	110.90
36	1	143	G	N3-C4-N9	5.30	129.18	126.00
36	1	1187	C	C4-C5-C6	-5.30	114.75	117.40
36	1	1801	U	C6-N1-C2	-5.30	117.82	121.00
36	1	3034	C	C5-C4-N4	-5.30	116.49	120.20
80	6	1364	G	N1-C2-N3	-5.30	120.72	123.90
85	5	1286	A	OP1-P-O3'	5.30	116.87	105.20
1	2	94	U	O5'-P-OP2	-5.30	100.93	105.70
1	2	1575	A	N3-C4-C5	-5.30	123.09	126.80
1	2	1616	A	C8-N9-C4	-5.30	103.68	105.80
36	1	583	G	N3-C4-N9	-5.30	122.82	126.00
36	1	910	G	C6-C5-N7	-5.30	127.22	130.40
36	1	1078	U	N1-C2-N3	5.30	118.08	114.90
36	1	1485	G	C4-C5-N7	5.30	112.92	110.80
36	1	1616	U	O5'-P-OP1	-5.30	100.93	105.70
36	1	1847	A	O5'-P-OP2	-5.30	100.93	105.70
36	1	2216	G	N1-C2-N3	5.30	127.08	123.90
36	1	2334	U	C6-N1-C1'	-5.30	113.78	121.20
36	1	2334	U	C4-C5-C6	5.30	122.88	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2793	G	N3-C4-N9	-5.30	122.82	126.00
38	4	83	C	P-O3'-C3'	-5.30	113.34	119.70
80	6	67	A	OP1-P-OP2	5.30	127.55	119.60
80	6	844	A	C5-N7-C8	-5.30	101.25	103.90
80	6	934	C	C6-N1-C2	-5.30	118.18	120.30
80	6	1555	A	N9-C4-C5	-5.30	103.68	105.80
80	6	1781	A	N3-C4-C5	-5.30	123.09	126.80
85	5	348	A	C6-N1-C2	-5.30	115.42	118.60
85	5	391	A	C5-N7-C8	5.30	106.55	103.90
85	5	857	G	C4-C5-C6	5.30	121.98	118.80
85	5	929	A	OP1-P-OP2	5.30	127.55	119.60
85	5	2137	U	C2-N1-C1'	5.30	124.06	117.70
85	5	3000	A	C8-N9-C4	5.30	107.92	105.80
85	5	3192	U	C5-C4-O4	-5.30	122.72	125.90
85	5	3266	G	OP1-P-OP2	-5.30	111.65	119.60
1	2	381	C	OP1-P-O3'	5.30	116.86	105.20
1	2	536	C	N3-C4-N4	5.30	121.71	118.00
36	1	354	U	N3-C4-C5	-5.30	111.42	114.60
36	1	532	A	C4-C5-C6	-5.30	114.35	117.00
36	1	887	G	C8-N9-C4	5.30	108.52	106.40
36	1	1163	A	C5-N7-C8	-5.30	101.25	103.90
36	1	1395	G	C5-N7-C8	-5.30	101.65	104.30
36	1	1724	U	N3-C2-O2	5.30	125.91	122.20
36	1	2549	G	N7-C8-N9	-5.30	110.45	113.10
36	1	2911	A	C6-N1-C2	-5.30	115.42	118.60
36	1	3015	G	O4'-C1'-N9	5.30	112.44	108.20
36	1	3089	C	C2-N3-C4	-5.30	117.25	119.90
46	L9	68	LEU	CB-CG-CD2	5.30	120.01	111.00
80	6	1101	G	N1-C6-O6	5.30	123.08	119.90
80	6	1682	U	C5-C6-N1	5.30	125.35	122.70
80	6	1744	A	N7-C8-N9	-5.30	111.15	113.80
85	5	20	A	C4-C5-N7	-5.30	108.05	110.70
85	5	137	G	O5'-P-OP2	5.30	117.06	110.70
85	5	1190	A	C6-C5-N7	5.30	136.01	132.30
85	5	1289	G	N7-C8-N9	5.30	115.75	113.10
85	5	1474	A	N3-C4-C5	5.30	130.51	126.80
85	5	1585	C	C5-C6-N1	-5.30	118.35	121.00
85	5	1682	U	C2-N3-C4	5.30	130.18	127.00
85	5	2207	A	C5-C6-N1	-5.30	115.05	117.70
85	5	2414	G	C2-N3-C4	-5.30	109.25	111.90
85	5	2680	A	N1-C2-N3	5.30	131.95	129.30
38	8	103	G	C4-N9-C1'	5.30	133.39	126.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	479	C	C2-N3-C4	-5.30	117.25	119.90
36	1	43	A	N3-C4-N9	-5.30	123.16	127.40
36	1	537	A	C5-C6-N1	5.30	120.35	117.70
36	1	652	G	C5-C6-O6	-5.30	125.42	128.60
36	1	1477	A	O5'-P-OP2	-5.30	100.93	105.70
36	1	1510	G	N3-C4-N9	5.30	129.18	126.00
36	1	1671	C	C4-C5-C6	-5.30	114.75	117.40
36	1	3140	G	OP2-P-O3'	5.30	116.86	105.20
36	1	3337	G	C6-C5-N7	-5.30	127.22	130.40
80	6	7	G	N1-C6-O6	5.30	123.08	119.90
80	6	113	U	C2-N1-C1'	-5.30	111.34	117.70
80	6	474	A	N1-C2-N3	-5.30	126.65	129.30
80	6	802	G	N1-C6-O6	5.30	123.08	119.90
80	6	1547	A	C2-N3-C4	-5.30	107.95	110.60
85	5	426	G	C6-C5-N7	5.30	133.58	130.40
85	5	505	G	N7-C8-N9	5.30	115.75	113.10
85	5	722	G	N3-C4-C5	-5.30	125.95	128.60
85	5	1054	A	OP1-P-OP2	5.30	127.55	119.60
85	5	3026	G	C8-N9-C4	-5.30	104.28	106.40
42	15	232	ASP	CB-CG-OD1	5.30	123.07	118.30
1	2	44	U	O5'-P-OP1	5.30	117.06	110.70
36	1	180	C	C6-N1-C2	5.30	122.42	120.30
36	1	584	G	N7-C8-N9	-5.30	110.45	113.10
36	1	637	C	C4'-C3'-O3'	5.30	123.59	113.00
36	1	784	A	C5-C6-N1	-5.30	115.05	117.70
36	1	1053	A	C2-N3-C4	-5.30	107.95	110.60
36	1	1474	A	O5'-P-OP2	5.30	117.06	110.70
36	1	1758	G	N3-C4-C5	-5.30	125.95	128.60
36	1	1806	A	N1-C6-N6	5.30	121.78	118.60
36	1	1846	C	O5'-P-OP1	5.30	117.06	110.70
36	1	2207	A	N3-C4-C5	-5.30	123.09	126.80
36	1	2360	C	N3-C4-N4	5.30	121.71	118.00
36	1	2541	U	P-O3'-C3'	5.30	126.06	119.70
36	1	3247	G	O5'-P-OP2	-5.30	100.93	105.70
80	6	127	G	C6-N1-C2	5.30	128.28	125.10
80	6	280	U	C6-N1-C1'	-5.30	113.78	121.20
80	6	1618	C	N3-C4-C5	5.30	124.02	121.90
85	5	616	G	C8-N9-C1'	-5.30	120.12	127.00
85	5	1166	G	N1-C6-O6	-5.30	116.72	119.90
85	5	1582	C	O5'-P-OP1	-5.30	100.93	105.70
85	5	1660	C	C6-N1-C2	-5.30	118.18	120.30
85	5	1875	G	O5'-P-OP2	-5.30	100.93	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2608	G	C2-N3-C4	-5.30	109.25	111.90
85	5	2811	A	OP1-P-OP2	5.30	127.54	119.60
38	8	46	G	N7-C8-N9	5.30	115.75	113.10
1	2	1515	U	C2-N3-C4	5.29	130.18	127.00
36	1	362	U	C5-C6-N1	-5.29	120.05	122.70
36	1	622	A	C4-C5-C6	5.29	119.65	117.00
36	1	1714	A	OP1-P-OP2	5.29	127.54	119.60
38	4	26	U	C2-N1-C1'	5.29	124.05	117.70
80	6	1555	A	C4-C5-C6	-5.29	114.35	117.00
85	5	150	A	N1-C6-N6	5.29	121.78	118.60
85	5	2679	A	C5-C6-N6	-5.29	119.46	123.70
85	5	2904	U	C2-N3-C4	-5.29	123.82	127.00
85	5	3049	A	C5-N7-C8	5.29	106.55	103.90
38	8	97	A	C5-N7-C8	5.29	106.55	103.90
1	2	238	U	N3-C4-O4	5.29	123.11	119.40
1	2	320	U	C6-N1-C2	5.29	124.18	121.00
1	2	996	A	C4-C5-C6	-5.29	114.35	117.00
1	2	1111	C	C6-N1-C2	-5.29	118.18	120.30
1	2	1327	A	N1-C2-N3	-5.29	126.65	129.30
1	2	1760	G	C4-C5-N7	5.29	112.92	110.80
36	1	437	G	N1-C2-N2	5.29	120.96	116.20
36	1	542	G	C6-N1-C2	5.29	128.28	125.10
36	1	610	G	C6-N1-C2	5.29	128.28	125.10
36	1	999	G	O4'-C1'-N9	5.29	112.44	108.20
36	1	1068	C	C5-C6-N1	-5.29	118.35	121.00
36	1	1392	G	C4-C5-N7	-5.29	108.68	110.80
36	1	1436	U	N1-C2-O2	-5.29	119.09	122.80
36	1	1442	U	C5-C6-N1	5.29	125.35	122.70
36	1	1489	A	O5'-P-OP2	5.29	117.05	110.70
36	1	1620	U	OP1-P-OP2	-5.29	111.66	119.60
36	1	1760	A	N9-C4-C5	5.29	107.92	105.80
36	1	3064	U	C6-N1-C2	-5.29	117.82	121.00
37	3	84	A	C5-C6-N1	5.29	120.35	117.70
38	4	16	G	N1-C2-N3	5.29	127.08	123.90
44	L7	83	LEU	CA-CB-CG	5.29	127.47	115.30
80	6	640	U	N3-C4-C5	5.29	117.78	114.60
80	6	1002	G	C2-N3-C4	-5.29	109.25	111.90
80	6	1123	C	O5'-P-OP2	-5.29	100.94	105.70
85	5	195	U	C5-C6-N1	-5.29	120.05	122.70
85	5	746	A	OP2-P-O3'	5.29	116.84	105.20
85	5	884	A	N3-C4-C5	5.29	130.50	126.80
85	5	1119	C	OP1-P-OP2	-5.29	111.66	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1904	C	OP2-P-O3'	5.29	116.84	105.20
85	5	2926	A	N1-C2-N3	5.29	131.95	129.30
85	5	3209	A	C5-N7-C8	5.29	106.55	103.90
85	5	3216	G	N3-C2-N2	5.29	123.61	119.90
85	5	3288	G	C8-N9-C4	5.29	108.52	106.40
1	2	15	U	C6-N1-C2	-5.29	117.83	121.00
1	2	145	A	C6-N1-C2	-5.29	115.42	118.60
1	2	1168	U	C6-N1-C1'	-5.29	113.79	121.20
36	1	102	C	C4-C5-C6	5.29	120.05	117.40
36	1	282	G	N3-C4-N9	-5.29	122.83	126.00
36	1	360	G	C8-N9-C1'	-5.29	120.12	127.00
36	1	532	A	N9-C4-C5	-5.29	103.68	105.80
36	1	740	G	N1-C2-N3	5.29	127.08	123.90
36	1	779	G	C4-C5-C6	5.29	121.97	118.80
36	1	2274	U	N3-C2-O2	-5.29	118.50	122.20
36	1	2694	A	OP1-P-O3'	5.29	116.84	105.20
36	1	2811	A	C5-C6-N6	5.29	127.93	123.70
80	6	92	A	OP2-P-O3'	5.29	116.84	105.20
80	6	801	G	C4-C5-N7	-5.29	108.68	110.80
80	6	1641	C	C2-N3-C4	5.29	122.55	119.90
85	5	130	A	N7-C8-N9	-5.29	111.16	113.80
85	5	224	C	N3-C4-N4	5.29	121.70	118.00
85	5	263	C	C5-C6-N1	5.29	123.65	121.00
85	5	403	C	C2-N1-C1'	5.29	124.62	118.80
85	5	571	U	O5'-P-OP1	5.29	117.05	110.70
85	5	591	G	C6-N1-C2	5.29	128.28	125.10
85	5	835	G	N1-C2-N2	-5.29	111.44	116.20
85	5	1328	C	C2-N3-C4	-5.29	117.25	119.90
85	5	1357	G	N1-C2-N2	-5.29	111.44	116.20
85	5	1389	G	N3-C4-C5	5.29	131.25	128.60
85	5	1481	A	N3-C4-C5	-5.29	123.10	126.80
85	5	1490	A	C5-C6-N6	5.29	127.93	123.70
85	5	1619	A	C6-C5-N7	-5.29	128.60	132.30
85	5	1793	C	OP1-P-OP2	-5.29	111.66	119.60
85	5	2325	G	P-O3'-C3'	-5.29	113.35	119.70
85	5	2342	U	C5-C6-N1	-5.29	120.05	122.70
85	5	2637	A	C2-N3-C4	-5.29	107.95	110.60
85	5	3227	A	C2-N3-C4	-5.29	107.95	110.60
1	2	1385	G	N1-C6-O6	5.29	123.07	119.90
1	2	1793	G	N1-C2-N3	-5.29	120.73	123.90
36	1	282	G	N1-C2-N2	-5.29	111.44	116.20
36	1	846	A	O5'-P-OP2	5.29	117.05	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2226	U	O5'-P-OP2	5.29	117.05	110.70
36	1	2831	G	C4-C5-N7	-5.29	108.68	110.80
36	1	3144	G	C5-N7-C8	-5.29	101.66	104.30
36	1	3326	G	C5-N7-C8	5.29	106.94	104.30
36	1	3352	U	N3-C2-O2	5.29	125.90	122.20
80	6	322	G	C5-C6-N1	-5.29	108.86	111.50
80	6	531	C	N1-C2-O2	-5.29	115.73	118.90
85	5	1403	C	C5-C4-N4	-5.29	116.50	120.20
85	5	2937	G	C4-C5-C6	5.29	121.97	118.80
37	7	105	C	N3-C4-C5	-5.29	119.78	121.90
37	7	110	G	C5-N7-C8	-5.29	101.66	104.30
1	2	388	G	C5-C6-O6	-5.29	125.43	128.60
1	2	420	A	C5-C6-N1	5.29	120.34	117.70
1	2	1306	C	C5-C6-N1	-5.29	118.36	121.00
1	2	1621	G	C5-N7-C8	-5.29	101.66	104.30
36	1	104	G	OP2-P-O3'	5.29	116.83	105.20
36	1	303	G	P-O3'-C3'	-5.29	113.35	119.70
36	1	311	C	C4-C5-C6	5.29	120.04	117.40
36	1	719	U	P-O3'-C3'	-5.29	113.35	119.70
36	1	1644	C	C5-C6-N1	5.29	123.64	121.00
36	1	2197	C	C5-C4-N4	-5.29	116.50	120.20
36	1	2842	U	O5'-P-OP1	-5.29	100.94	105.70
36	1	2959	C	O5'-P-OP1	5.29	117.05	110.70
36	1	3286	G	O5'-P-OP1	-5.29	100.94	105.70
80	6	293	U	C2-N3-C4	-5.29	123.83	127.00
80	6	335	U	N1-C2-O2	5.29	126.50	122.80
80	6	436	A	C5-N7-C8	-5.29	101.26	103.90
80	6	624	G	N3-C4-N9	-5.29	122.83	126.00
80	6	801	G	O5'-P-OP1	5.29	117.05	110.70
80	6	885	G	C5-C6-N1	-5.29	108.86	111.50
80	6	956	C	OP1-P-OP2	-5.29	111.67	119.60
80	6	1456	C	N1-C2-O2	5.29	122.07	118.90
80	6	1631	A	O5'-P-OP2	-5.29	100.94	105.70
80	6	1752	U	N3-C2-O2	-5.29	118.50	122.20
85	5	127	G	N9-C4-C5	-5.29	103.28	105.40
85	5	393	U	C4-C5-C6	5.29	122.87	119.70
85	5	734	C	OP1-P-OP2	5.29	127.53	119.60
85	5	831	G	N7-C8-N9	-5.29	110.46	113.10
85	5	1152	G	N3-C4-C5	5.29	131.24	128.60
85	5	1472	U	OP1-P-O3'	5.29	116.84	105.20
85	5	1483	G	C5-C6-N1	5.29	114.14	111.50
85	5	1638	A	C2-N3-C4	-5.29	107.96	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2400	G	O5'-P-OP2	5.29	117.05	110.70
85	5	2506	U	N3-C4-O4	5.29	123.10	119.40
85	5	2688	U	OP1-P-O3'	5.29	116.83	105.20
85	5	2748	A	N7-C8-N9	-5.29	111.16	113.80
85	5	3013	U	C2-N1-C1'	5.29	124.05	117.70
85	5	3052	G	C8-N9-C4	-5.29	104.28	106.40
37	7	54	U	C5-C6-N1	-5.29	120.06	122.70
38	8	129	C	N3-C4-N4	5.29	121.70	118.00
1	2	91	G	N1-C2-N2	5.29	120.96	116.20
1	2	950	A	N9-C4-C5	-5.29	103.69	105.80
36	1	1188	U	O5'-P-OP2	-5.29	100.94	105.70
36	1	2244	A	C5-C6-N1	5.29	120.34	117.70
36	1	3336	A	C2-N3-C4	-5.29	107.96	110.60
40	L3	196	ARG	NE-CZ-NH1	-5.29	117.66	120.30
46	L9	78	MET	CG-SD-CE	-5.29	91.74	100.20
85	5	421	G	OP2-P-O3'	-5.29	93.57	105.20
85	5	616	G	C4-C5-N7	-5.29	108.69	110.80
85	5	1346	G	C5-C6-O6	-5.29	125.43	128.60
85	5	1794	G	N3-C2-N2	-5.29	116.20	119.90
1	2	509	G	N3-C2-N2	-5.29	116.20	119.90
1	2	789	A	C6-N1-C2	-5.29	115.43	118.60
1	2	976	A	C4-C5-C6	5.29	119.64	117.00
1	2	1047	G	N1-C2-N2	5.29	120.96	116.20
1	2	1073	C	N1-C2-O2	5.29	122.07	118.90
1	2	1469	G	C4-C5-C6	5.29	121.97	118.80
1	2	1657	C	C5-C6-N1	5.29	123.64	121.00
36	1	45	A	O5'-P-OP2	-5.29	100.94	105.70
36	1	171	G	N7-C8-N9	-5.29	110.46	113.10
36	1	364	G	N3-C4-N9	-5.29	122.83	126.00
36	1	959	C	C6-N1-C1'	-5.29	114.46	120.80
36	1	1827	C	OP1-P-OP2	-5.29	111.67	119.60
36	1	2102	U	N1-C2-N3	-5.29	111.73	114.90
36	1	2313	A	C4-C5-N7	5.29	113.34	110.70
80	6	149	C	OP1-P-O3'	5.29	116.83	105.20
80	6	454	U	N3-C2-O2	5.29	125.90	122.20
80	6	523	G	C6-N1-C2	-5.29	121.93	125.10
80	6	996	U	C6-N1-C1'	5.29	128.60	121.20
80	6	1110	G	C8-N9-C4	-5.29	104.29	106.40
80	6	1287	A	N1-C6-N6	-5.29	115.43	118.60
80	6	1712	A	C6-N1-C2	5.29	121.77	118.60
85	5	1513	G	C5-N7-C8	-5.29	101.66	104.30
85	5	1836	C	C2-N3-C4	5.29	122.54	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2115	G	C4-N9-C1'	5.29	133.37	126.50
38	8	105	A	C5-C6-N1	-5.29	115.06	117.70
1	2	286	C	O5'-P-OP1	-5.28	100.95	105.70
1	2	386	G	N9-C4-C5	5.28	107.51	105.40
1	2	410	A	N9-C4-C5	-5.28	103.69	105.80
1	2	1730	G	C8-N9-C4	5.28	108.51	106.40
36	1	143	G	OP1-P-OP2	5.28	127.53	119.60
36	1	1120	A	N3-C4-N9	5.28	131.63	127.40
36	1	1178	G	OP1-P-OP2	5.28	127.53	119.60
36	1	1604	G	C5-C6-O6	-5.28	125.43	128.60
36	1	3198	U	N3-C2-O2	-5.28	118.50	122.20
80	6	25	C	C2-N1-C1'	5.28	124.61	118.80
80	6	334	G	C8-N9-C4	-5.28	104.29	106.40
80	6	386	G	C4-C5-N7	5.28	112.91	110.80
80	6	1076	A	C4-C5-C6	-5.28	114.36	117.00
80	6	1440	C	OP1-P-OP2	-5.28	111.68	119.60
85	5	12	A	N1-C6-N6	5.28	121.77	118.60
85	5	125	C	C2-N3-C4	5.28	122.54	119.90
85	5	670	C	OP2-P-O3'	5.28	116.83	105.20
85	5	1575	A	C5-N7-C8	-5.28	101.26	103.90
85	5	1586	G	N1-C2-N3	5.28	127.07	123.90
85	5	2123	G	C5-C6-N1	-5.28	108.86	111.50
85	5	2218	G	N3-C4-N9	5.28	129.17	126.00
85	5	2249	G	C3'-C2'-C1'	-5.28	97.27	101.50
85	5	2428	U	OP2-P-O3'	5.28	116.83	105.20
85	5	2725	U	OP2-P-O3'	5.28	116.82	105.20
85	5	2813	A	C4-C5-C6	5.28	119.64	117.00
85	5	2872	A	N1-C6-N6	-5.28	115.43	118.60
85	5	3099	C	C5-C4-N4	-5.28	116.50	120.20
85	5	3135	U	N1-C2-O2	-5.28	119.10	122.80
36	1	365	A	OP1-P-O3'	5.28	116.82	105.20
36	1	668	G	C4-C5-N7	-5.28	108.69	110.80
36	1	843	A	C6-C5-N7	-5.28	128.60	132.30
36	1	1200	A	OP2-P-O3'	-5.28	93.58	105.20
36	1	1785	U	C4-C5-C6	5.28	122.87	119.70
36	1	1799	A	N9-C4-C5	5.28	107.91	105.80
36	1	2721	A	C8-N9-C4	-5.28	103.69	105.80
38	4	4	C	C5-C6-N1	-5.28	118.36	121.00
80	6	837	G	C2-N3-C4	5.28	114.54	111.90
80	6	1407	U	C5-C6-N1	-5.28	120.06	122.70
85	5	143	G	N3-C4-C5	5.28	131.24	128.60
85	5	1278	A	C2-N3-C4	-5.28	107.96	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1656	A	C6-C5-N7	5.28	136.00	132.30
85	5	2805	G	N3-C4-N9	5.28	129.17	126.00
85	5	2879	C	C6-N1-C1'	5.28	127.14	120.80
1	2	304	U	N3-C2-O2	5.28	125.90	122.20
1	2	1043	U	C2-N1-C1'	5.28	124.04	117.70
1	2	1411	G	C5-C6-O6	5.28	131.77	128.60
36	1	419	G	O5'-P-OP2	-5.28	100.95	105.70
36	1	530	G	C5-C6-N1	5.28	114.14	111.50
36	1	1040	A	C2-N3-C4	-5.28	107.96	110.60
36	1	1337	A	C8-N9-C4	5.28	107.91	105.80
36	1	1544	G	N3-C4-C5	-5.28	125.96	128.60
36	1	1614	C	C2-N3-C4	-5.28	117.26	119.90
36	1	1813	A	O5'-P-OP1	5.28	117.04	110.70
36	1	2095	G	N7-C8-N9	-5.28	110.46	113.10
36	1	2096	A	N9-C4-C5	5.28	107.91	105.80
36	1	2613	U	N1-C2-O2	-5.28	119.10	122.80
36	1	2704	A	P-O3'-C3'	5.28	126.04	119.70
36	1	2869	U	C2-N1-C1'	5.28	124.04	117.70
36	1	3292	A	N7-C8-N9	-5.28	111.16	113.80
36	1	3313	U	OP1-P-OP2	-5.28	111.68	119.60
44	L7	202	LEU	CB-CG-CD2	-5.28	102.02	111.00
53	M7	82	ARG	NE-CZ-NH2	-5.28	117.66	120.30
80	6	512	A	C6-N1-C2	-5.28	115.43	118.60
80	6	620	A	OP2-P-O3'	5.28	116.82	105.20
80	6	1800	A	C5-N7-C8	5.28	106.54	103.90
85	5	72	C	N3-C4-C5	5.28	124.01	121.90
85	5	164	A	C6-C5-N7	-5.28	128.60	132.30
85	5	229	G	OP1-P-OP2	-5.28	111.68	119.60
85	5	281	G	N1-C2-N2	5.28	120.95	116.20
85	5	302	U	C5-C4-O4	5.28	129.07	125.90
85	5	391	A	N9-C4-C5	5.28	107.91	105.80
85	5	1212	A	N3-C4-N9	5.28	131.62	127.40
85	5	1291	A	C2-N3-C4	-5.28	107.96	110.60
85	5	2523	A	N3-C4-N9	5.28	131.62	127.40
85	5	2657	A	C5-N7-C8	-5.28	101.26	103.90
85	5	2914	G	OP1-P-O3'	5.28	116.81	105.20
85	5	2961	G	N7-C8-N9	5.28	115.74	113.10
85	5	2965	U	N1-C2-O2	-5.28	119.10	122.80
85	5	3085	G	C6-C5-N7	5.28	133.57	130.40
85	5	3260	G	N1-C2-N3	5.28	127.07	123.90
38	8	22	U	C4-C5-C6	-5.28	116.53	119.70
1	2	53	G	N1-C2-N3	5.28	127.07	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1584	G	C8-N9-C4	-5.28	104.29	106.40
36	1	3019	U	C4-C5-C6	5.28	122.87	119.70
36	1	3051	U	C2-N1-C1'	-5.28	111.36	117.70
80	6	750	U	N3-C4-C5	-5.28	111.43	114.60
80	6	1122	G	N3-C2-N2	-5.28	116.20	119.90
85	5	806	A	C5-N7-C8	-5.28	101.26	103.90
85	5	1037	C	OP1-P-O3'	5.28	116.81	105.20
85	5	2149	A	N1-C2-N3	5.28	131.94	129.30
85	5	2241	U	N3-C4-C5	-5.28	111.43	114.60
85	5	2924	U	C2-N3-C4	-5.28	123.83	127.00
85	5	2961	G	O5'-P-OP2	-5.28	100.95	105.70
85	5	3180	A	OP2-P-O3'	5.28	116.81	105.20
1	2	81	G	N7-C8-N9	5.28	115.74	113.10
1	2	1537	U	N3-C4-O4	5.28	123.09	119.40
36	1	19	U	C6-N1-C1'	5.28	128.59	121.20
36	1	23	A	N7-C8-N9	-5.28	111.16	113.80
36	1	40	A	N1-C2-N3	5.28	131.94	129.30
36	1	831	G	OP2-P-O3'	5.28	116.81	105.20
36	1	850	U	N1-C2-O2	5.28	126.49	122.80
36	1	910	G	O5'-P-OP2	-5.28	100.95	105.70
36	1	1357	G	O5'-P-OP2	-5.28	100.95	105.70
36	1	1560	G	N3-C2-N2	5.28	123.59	119.90
36	1	2124	G	C6-N1-C2	-5.28	121.93	125.10
36	1	2953	U	N1-C2-N3	5.28	118.07	114.90
36	1	3144	G	N3-C4-C5	5.28	131.24	128.60
37	3	15	C	C5-C6-N1	-5.28	118.36	121.00
39	L2	9	ARG	NE-CZ-NH2	-5.28	117.66	120.30
68	O2	36	LYS	CD-CE-NZ	-5.28	99.56	111.70
80	6	617	U	C2-N3-C4	-5.28	123.83	127.00
80	6	929	A	N1-C6-N6	5.28	121.77	118.60
80	6	1095	U	N1-C2-N3	5.28	118.07	114.90
80	6	1498	G	N1-C2-N3	-5.28	120.73	123.90
80	6	1514	U	C6-N1-C2	-5.28	117.83	121.00
80	6	1559	A	C8-N9-C4	-5.28	103.69	105.80
85	5	875	G	C5-C6-O6	5.28	131.77	128.60
85	5	1235	U	C5-C6-N1	5.28	125.34	122.70
85	5	1249	G	C8-N9-C4	-5.28	104.29	106.40
85	5	1586	G	N3-C4-N9	5.28	129.17	126.00
85	5	1855	U	C5-C4-O4	5.28	129.07	125.90
85	5	2101	C	O5'-P-OP2	-5.28	100.95	105.70
85	5	2576	G	N3-C4-N9	-5.28	122.83	126.00
85	5	2723	U	OP1-P-OP2	5.28	127.52	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2865	U	OP2-P-O3'	5.28	116.81	105.20
1	2	298	C	N3-C4-N4	5.28	121.69	118.00
1	2	567	A	C8-N9-C4	5.28	107.91	105.80
36	1	1438	U	C2-N3-C4	-5.28	123.83	127.00
36	1	1468	A	C5-C6-N1	-5.28	115.06	117.70
36	1	1531	C	N1-C2-N3	5.28	122.89	119.20
36	1	1588	A	C5-C6-N6	-5.28	119.48	123.70
36	1	2167	A	C6-N1-C2	5.28	121.77	118.60
36	1	2735	U	C5-C4-O4	5.28	129.06	125.90
36	1	2784	G	N9-C4-C5	-5.28	103.29	105.40
36	1	3070	A	N1-C2-N3	5.28	131.94	129.30
36	1	3228	C	C5-C4-N4	5.28	123.89	120.20
36	1	3338	C	C5-C6-N1	5.28	123.64	121.00
38	4	145	U	N3-C4-C5	5.28	117.77	114.60
80	6	210	A	C4-C5-C6	5.28	119.64	117.00
80	6	655	G	N1-C2-N3	-5.28	120.73	123.90
80	6	1676	U	N3-C2-O2	5.28	125.89	122.20
85	5	215	G	C4-C5-N7	-5.28	108.69	110.80
85	5	550	A	C6-N1-C2	5.28	121.77	118.60
85	5	625	G	N1-C2-N3	5.28	127.07	123.90
85	5	899	U	C6-N1-C2	-5.28	117.83	121.00
85	5	1002	A	N7-C8-N9	5.28	116.44	113.80
85	5	1155	C	C4-C5-C6	-5.28	114.76	117.40
85	5	1322	U	C2-N3-C4	-5.28	123.83	127.00
85	5	1513	G	C5-C6-O6	-5.28	125.44	128.60
85	5	1565	G	N1-C2-N3	-5.28	120.73	123.90
85	5	2330	C	N3-C4-N4	-5.28	114.31	118.00
85	5	2646	C	N1-C2-O2	-5.28	115.73	118.90
85	5	2659	G	C4-C5-C6	-5.28	115.64	118.80
85	5	2958	A	O4'-C1'-N9	5.28	112.42	108.20
85	5	2999	U	O5'-P-OP2	5.28	117.03	110.70
85	5	3341	U	C5-C6-N1	-5.28	120.06	122.70
38	8	106	C	C6-N1-C1'	-5.28	114.47	120.80
1	2	345	U	N3-C2-O2	5.27	125.89	122.20
1	2	392	G	N7-C8-N9	-5.27	110.46	113.10
1	2	433	C	O5'-P-OP2	5.27	117.03	110.70
36	1	19	U	N1-C2-O2	-5.27	119.11	122.80
36	1	283	G	N9-C4-C5	-5.27	103.29	105.40
36	1	2179	C	N1-C2-N3	5.27	122.89	119.20
36	1	3048	A	N7-C8-N9	5.27	116.44	113.80
80	6	27	U	OP1-P-O3'	5.27	116.80	105.20
80	6	352	A	C8-N9-C4	5.27	107.91	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1120	U	OP2-P-O3'	5.27	116.80	105.20
85	5	404	G	N9-C4-C5	5.27	107.51	105.40
85	5	1091	A	C5-C6-N1	-5.27	115.06	117.70
85	5	2371	G	N1-C2-N3	5.27	127.06	123.90
85	5	2763	U	N3-C4-O4	5.27	123.09	119.40
85	5	3011	A	OP1-P-OP2	5.27	127.51	119.60
1	2	1011	C	C5-C4-N4	-5.27	116.51	120.20
1	2	1528	A	C5-C6-N1	-5.27	115.06	117.70
15	C3	22	ALA	C-N-CD	-5.27	109.00	120.60
36	1	766	U	O5'-P-OP2	5.27	117.03	110.70
36	1	808	A	OP1-P-OP2	-5.27	111.69	119.60
36	1	1521	G	N1-C2-N3	5.27	127.06	123.90
36	1	1760	A	C6-N1-C2	-5.27	115.44	118.60
36	1	1905	G	C6-N1-C2	-5.27	121.94	125.10
36	1	2297	U	O5'-P-OP1	5.27	117.03	110.70
36	1	2991	A	N3-C4-N9	-5.27	123.18	127.40
80	6	162	A	C8-N9-C4	5.27	107.91	105.80
80	6	518	A	N9-C4-C5	5.27	107.91	105.80
80	6	586	G	N3-C2-N2	5.27	123.59	119.90
80	6	1399	C	N1-C2-O2	5.27	122.06	118.90
80	6	1549	C	C4-C5-C6	5.27	120.04	117.40
85	5	276	U	C5-C4-O4	-5.27	122.74	125.90
85	5	375	A	C5-N7-C8	-5.27	101.26	103.90
85	5	514	G	C5-C6-N1	5.27	114.14	111.50
85	5	571	U	OP1-P-OP2	-5.27	111.69	119.60
85	5	607	A	C4-N9-C1'	5.27	135.79	126.30
85	5	608	A	N1-C6-N6	5.27	121.76	118.60
85	5	880	G	C5-C6-N1	5.27	114.14	111.50
85	5	1466	G	C8-N9-C1'	-5.27	120.15	127.00
85	5	1520	G	C4-N9-C1'	5.27	133.35	126.50
85	5	1530	U	C2-N1-C1'	-5.27	111.37	117.70
85	5	2815	G	OP2-P-O3'	5.27	116.80	105.20
37	7	23	A	N1-C6-N6	-5.27	115.44	118.60
44	17	183	ASP	CB-CG-OD2	-5.27	113.55	118.30
1	2	470	A	C2-N3-C4	-5.27	107.96	110.60
36	1	322	U	C2-N3-C4	-5.27	123.84	127.00
36	1	351	A	N1-C2-N3	5.27	131.94	129.30
36	1	370	U	C5-C4-O4	-5.27	122.74	125.90
36	1	552	G	C2-N3-C4	-5.27	109.26	111.90
36	1	1351	U	C5'-C4'-O4'	5.27	115.43	109.10
37	3	17	A	OP1-P-OP2	-5.27	111.69	119.60
38	4	97	A	O5'-P-OP2	5.27	117.03	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	4	108	C	C6-N1-C1'	5.27	127.12	120.80
38	4	158	U	N1-C2-O2	5.27	126.49	122.80
80	6	574	G	C2-N3-C4	-5.27	109.27	111.90
80	6	719	U	N1-C2-O2	-5.27	119.11	122.80
80	6	1024	U	C5-C6-N1	-5.27	120.06	122.70
80	6	1101	G	O5'-P-OP2	-5.27	100.96	105.70
80	6	1730	A	C6-N1-C2	-5.27	115.44	118.60
85	5	988	U	C6-N1-C2	-5.27	117.84	121.00
85	5	1470	U	C2-N3-C4	-5.27	123.84	127.00
85	5	1484	U	N1-C2-N3	5.27	118.06	114.90
85	5	1910	A	C6-N1-C2	5.27	121.76	118.60
85	5	1936	A	C5-C6-N1	-5.27	115.06	117.70
85	5	2144	A	O5'-P-OP1	5.27	117.03	110.70
85	5	2240	G	C4-C5-C6	-5.27	115.64	118.80
1	2	776	A	N3-C4-C5	-5.27	123.11	126.80
1	2	1076	A	C8-N9-C4	-5.27	103.69	105.80
1	2	1537	U	N3-C4-C5	-5.27	111.44	114.60
1	2	1761	G	C8-N9-C4	-5.27	104.29	106.40
36	1	239	G	C5-C6-O6	-5.27	125.44	128.60
36	1	392	G	N3-C4-N9	-5.27	122.84	126.00
36	1	1327	C	OP1-P-OP2	-5.27	111.70	119.60
36	1	1519	G	C6-C5-N7	-5.27	127.24	130.40
36	1	2120	A	N9-C4-C5	5.27	107.91	105.80
36	1	2124	G	OP2-P-O3'	5.27	116.79	105.20
36	1	2796	G	C8-N9-C4	5.27	108.51	106.40
36	1	3019	U	O4'-C1'-N1	5.27	112.42	108.20
36	1	3053	G	C4-C5-N7	-5.27	108.69	110.80
50	M4	19	ARG	NE-CZ-NH1	5.27	122.94	120.30
80	6	825	U	C6-N1-C2	5.27	124.16	121.00
80	6	1009	U	N3-C2-O2	5.27	125.89	122.20
80	6	1082	C	C2-N1-C1'	5.27	124.60	118.80
80	6	1575	G	C5-C6-N1	5.27	114.14	111.50
80	6	1641	C	C6-N1-C1'	5.27	127.12	120.80
85	5	118	U	C5-C4-O4	5.27	129.06	125.90
85	5	590	G	N3-C4-N9	5.27	129.16	126.00
85	5	826	G	C8-N9-C4	-5.27	104.29	106.40
85	5	1476	G	N1-C6-O6	5.27	123.06	119.90
85	5	1545	A	C2-N3-C4	-5.27	107.97	110.60
85	5	1627	U	O5'-P-OP1	-5.27	100.96	105.70
85	5	1750	A	C8-N9-C4	-5.27	103.69	105.80
85	5	1877	U	OP1-P-O3'	5.27	116.80	105.20
85	5	1910	A	O5'-P-OP2	-5.27	100.96	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2201	G	O5'-P-OP1	5.27	117.02	110.70
85	5	2244	A	N1-C6-N6	-5.27	115.44	118.60
85	5	2370	G	N3-C4-N9	-5.27	122.84	126.00
85	5	2709	C	C5-C4-N4	-5.27	116.51	120.20
85	5	2802	A	C2-N3-C4	5.27	113.23	110.60
37	7	88	G	N3-C4-N9	5.27	129.16	126.00
44	17	153	PHE	CB-CG-CD1	-5.27	117.11	120.80
1	2	644	C	C5-C4-N4	5.27	123.89	120.20
36	1	351	A	N7-C8-N9	-5.27	111.17	113.80
36	1	705	A	O5'-P-OP2	-5.27	100.96	105.70
36	1	1678	G	N3-C2-N2	-5.27	116.21	119.90
36	1	1860	G	C4-C5-C6	5.27	121.96	118.80
36	1	2314	U	N3-C4-O4	5.27	123.09	119.40
38	4	126	A	N7-C8-N9	-5.27	111.17	113.80
80	6	286	C	C4-C5-C6	-5.27	114.77	117.40
80	6	378	A	C5-C6-N6	-5.27	119.49	123.70
80	6	396	G	OP1-P-OP2	5.27	127.50	119.60
80	6	442	C	OP1-P-OP2	5.27	127.50	119.60
80	6	627	C	OP1-P-OP2	-5.27	111.70	119.60
80	6	1488	G	C6-N1-C2	-5.27	121.94	125.10
85	5	589	A	C4-C5-C6	5.27	119.63	117.00
85	5	1061	A	N1-C6-N6	-5.27	115.44	118.60
85	5	1518	U	C5-C6-N1	5.27	125.33	122.70
85	5	1852	G	C3'-C2'-O2'	-5.27	98.02	113.30
85	5	3158	G	N7-C8-N9	5.27	115.73	113.10
37	7	18	C	OP2-P-O3'	5.27	116.79	105.20
37	7	59	U	N3-C4-C5	-5.27	111.44	114.60
37	7	68	C	C4-C5-C6	5.27	120.03	117.40
37	7	110	G	P-O3'-C3'	-5.27	113.38	119.70
38	8	3	A	N7-C8-N9	5.27	116.43	113.80
75	o9	28	ARG	NE-CZ-NH1	-5.27	117.67	120.30
1	2	128	U	C5-C6-N1	-5.27	120.07	122.70
1	2	565	C	C4-C5-C6	5.27	120.03	117.40
1	2	1573	G	C5-C6-O6	5.27	131.76	128.60
36	1	611	A	C4-C5-C6	5.27	119.63	117.00
36	1	1212	A	C4-C5-C6	-5.27	114.37	117.00
36	1	1507	G	C5-C6-N1	5.27	114.13	111.50
36	1	1543	G	C5-N7-C8	5.27	106.93	104.30
36	1	1620	U	C4-C5-C6	5.27	122.86	119.70
36	1	1868	G	N1-C2-N2	-5.27	111.46	116.20
36	1	2897	A	OP1-P-O3'	5.27	116.79	105.20
36	1	2938	G	O5'-P-OP1	-5.27	100.96	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3166	C	C2-N3-C4	5.27	122.53	119.90
80	6	765	G	N3-C4-N9	-5.27	122.84	126.00
80	6	932	U	C5-C4-O4	5.27	129.06	125.90
85	5	588	G	N1-C6-O6	-5.27	116.74	119.90
85	5	1115	G	C8-N9-C1'	-5.27	120.16	127.00
85	5	1383	G	N9-C4-C5	5.27	107.51	105.40
51	m5	108	ARG	NE-CZ-NH1	5.27	122.93	120.30
1	2	610	G	N3-C2-N2	-5.26	116.22	119.90
1	2	963	G	N1-C2-N3	-5.26	120.74	123.90
36	1	127	G	O5'-P-OP2	5.26	117.02	110.70
36	1	175	C	O5'-P-OP1	5.26	117.02	110.70
36	1	514	G	N3-C4-C5	5.26	131.23	128.60
36	1	609	G	OP2-P-O3'	5.26	116.78	105.20
36	1	972	A	N1-C6-N6	5.26	121.76	118.60
36	1	1124	U	C5-C4-O4	5.26	129.06	125.90
36	1	1421	G	C4-C5-N7	5.26	112.91	110.80
36	1	3049	A	N7-C8-N9	-5.26	111.17	113.80
80	6	655	G	N7-C8-N9	5.26	115.73	113.10
80	6	1659	A	C5-C6-N6	5.26	127.91	123.70
80	6	1730	A	C6-C5-N7	-5.26	128.62	132.30
85	5	76	G	C5-C6-O6	-5.26	125.44	128.60
85	5	335	G	C6-N1-C2	-5.26	121.94	125.10
85	5	965	A	C8-N9-C4	-5.26	103.69	105.80
85	5	1041	U	C2-N1-C1'	-5.26	111.38	117.70
85	5	1359	C	C5-C4-N4	-5.26	116.51	120.20
85	5	1524	A	N3-C4-N9	-5.26	123.19	127.40
85	5	2251	G	C5-C6-O6	-5.26	125.44	128.60
85	5	2299	A	C4-C5-C6	5.26	119.63	117.00
85	5	2321	A	O5'-P-OP1	5.26	117.02	110.70
85	5	2409	G	N1-C2-N3	5.26	127.06	123.90
85	5	2852	C	N1-C2-N3	-5.26	115.52	119.20
85	5	2881	C	O4'-C1'-N1	-5.26	103.99	108.20
85	5	3091	A	O5'-P-OP1	-5.26	100.96	105.70
85	5	3136	G	C5-C6-N1	5.26	114.13	111.50
85	5	3265	C	OP1-P-O3'	5.26	116.78	105.20
37	7	118	A	C4-C5-N7	-5.26	108.07	110.70
38	8	2	A	C5-C6-N6	5.26	127.91	123.70
38	8	158	U	N1-C2-N3	-5.26	111.74	114.90
1	2	349	U	N3-C4-C5	5.26	117.76	114.60
1	2	1399	G	C6-C5-N7	-5.26	127.24	130.40
1	2	1419	A	N1-C2-N3	5.26	131.93	129.30
1	2	1736	A	C5-C6-N1	-5.26	115.07	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	683	U	N3-C4-C5	-5.26	111.44	114.60
36	1	1154	A	N3-C4-N9	5.26	131.61	127.40
36	1	1679	A	N3-C4-C5	5.26	130.48	126.80
80	6	298	C	C5-C6-N1	5.26	123.63	121.00
80	6	1588	G	C2-N3-C4	-5.26	109.27	111.90
85	5	219	A	N1-C6-N6	5.26	121.76	118.60
85	5	1084	A	OP2-P-O3'	5.26	116.78	105.20
85	5	1197	A	N7-C8-N9	-5.26	111.17	113.80
85	5	3026	G	C6-N1-C2	-5.26	121.94	125.10
1	2	101	U	O5'-P-OP1	5.26	117.01	110.70
1	2	590	C	C4-C5-C6	5.26	120.03	117.40
1	2	770	G	C8-N9-C4	-5.26	104.30	106.40
36	1	107	A	C8-N9-C4	5.26	107.90	105.80
36	1	964	G	O5'-P-OP2	5.26	117.01	110.70
36	1	2390	A	C6-N1-C2	-5.26	115.44	118.60
36	1	3069	G	C5-C6-N1	5.26	114.13	111.50
80	6	1193	A	C2-N3-C4	5.26	113.23	110.60
80	6	1388	A	C6-C5-N7	-5.26	128.62	132.30
80	6	1661	U	N1-C2-O2	-5.26	119.12	122.80
80	6	1800	A	C4-C5-N7	-5.26	108.07	110.70
85	5	111	C	O5'-P-OP1	5.26	117.01	110.70
85	5	427	C	N3-C2-O2	5.26	125.58	121.90
85	5	499	G	C6-N1-C2	5.26	128.26	125.10
85	5	689	U	C4-C5-C6	5.26	122.86	119.70
85	5	1032	C	OP1-P-OP2	-5.26	111.71	119.60
85	5	1319	G	C5-C6-O6	-5.26	125.44	128.60
85	5	1771	C	C6-N1-C2	-5.26	118.20	120.30
85	5	2287	C	C4-C5-C6	-5.26	114.77	117.40
85	5	2710	C	C2-N1-C1'	-5.26	113.01	118.80
85	5	2801	A	N7-C8-N9	-5.26	111.17	113.80
85	5	2848	G	C2-N3-C4	-5.26	109.27	111.90
85	5	2877	G	N1-C2-N2	5.26	120.94	116.20
85	5	3069	G	OP1-P-OP2	5.26	127.49	119.60
85	5	3120	C	C5-C4-N4	5.26	123.88	120.20
85	5	3247	G	C5-C6-O6	-5.26	125.44	128.60
44	17	129	LEU	CB-CG-CD1	-5.26	102.06	111.00
1	2	175	G	C4-C5-N7	-5.26	108.70	110.80
1	2	431	C	N3-C4-C5	-5.26	119.80	121.90
1	2	1443	A	N1-C2-N3	5.26	131.93	129.30
36	1	713	U	C6-N1-C2	5.26	124.16	121.00
36	1	794	U	C2-N3-C4	-5.26	123.84	127.00
36	1	877	C	OP2-P-O3'	5.26	116.77	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1657	C	N1-C2-O2	5.26	122.06	118.90
36	1	1758	G	C5-N7-C8	5.26	106.93	104.30
36	1	2194	G	O5'-P-OP1	5.26	117.01	110.70
36	1	2245	C	N1-C2-N3	5.26	122.88	119.20
36	1	2383	C	N3-C4-N4	-5.26	114.32	118.00
36	1	2521	U	O5'-P-OP1	5.26	117.01	110.70
36	1	2884	C	N1-C2-O2	-5.26	115.75	118.90
36	1	3128	G	C2-N3-C4	5.26	114.53	111.90
80	6	591	A	O5'-P-OP2	-5.26	100.97	105.70
80	6	811	A	C4-C5-C6	5.26	119.63	117.00
80	6	1073	G	N9-C1'-C2'	-5.26	106.21	112.00
80	6	1083	G	C5-C6-O6	-5.26	125.44	128.60
80	6	1490	C	OP1-P-OP2	5.26	127.49	119.60
85	5	281	G	C6-N1-C2	-5.26	121.94	125.10
85	5	648	C	OP2-P-O3'	-5.26	93.63	105.20
85	5	1475	A	C5-C6-N1	-5.26	115.07	117.70
85	5	1560	G	N7-C8-N9	-5.26	110.47	113.10
85	5	1913	A	N1-C2-N3	5.26	131.93	129.30
85	5	3383	G	C5-C6-N1	-5.26	108.87	111.50
1	2	695	G	C2-N3-C4	5.26	114.53	111.90
1	2	1020	C	C6-N1-C2	-5.26	118.20	120.30
36	1	374	A	N1-C6-N6	-5.26	115.44	118.60
36	1	1623	G	N3-C4-C5	-5.26	125.97	128.60
36	1	2124	G	C4-C5-C6	5.26	121.95	118.80
36	1	2352	A	N1-C2-N3	5.26	131.93	129.30
36	1	2443	A	C6-C5-N7	-5.26	128.62	132.30
80	6	1053	G	OP1-P-O3'	5.26	116.77	105.20
80	6	1388	A	C4-C5-C6	5.26	119.63	117.00
85	5	15	C	OP2-P-O3'	5.26	116.77	105.20
85	5	914	A	O4'-C1'-N9	-5.26	103.99	108.20
85	5	1014	U	N1-C2-N3	-5.26	111.75	114.90
85	5	1439	U	OP1-P-OP2	-5.26	111.71	119.60
85	5	1528	G	C5-C6-O6	5.26	131.75	128.60
85	5	1722	U	N3-C4-O4	-5.26	115.72	119.40
85	5	2603	G	C4-C5-C6	-5.26	115.64	118.80
85	5	2653	C	C4-C5-C6	-5.26	114.77	117.40
85	5	2752	U	C2-N3-C4	-5.26	123.84	127.00
85	5	3295	A	N1-C6-N6	5.26	121.75	118.60
41	14	246	ARG	NE-CZ-NH1	-5.26	117.67	120.30
1	2	1769	G	N9-C4-C5	5.26	107.50	105.40
36	1	575	G	N3-C4-N9	-5.26	122.85	126.00
36	1	610	G	C4-C5-C6	5.26	121.95	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	783	A	C5-C6-N6	5.26	127.91	123.70
36	1	798	G	C2-N3-C4	-5.26	109.27	111.90
36	1	1419	A	O4'-C1'-N9	5.26	112.41	108.20
36	1	1491	A	C2-N3-C4	-5.26	107.97	110.60
36	1	2169	G	C5'-C4'-O4'	-5.26	102.79	109.10
36	1	2919	A	N7-C8-N9	5.26	116.43	113.80
37	3	103	A	OP2-P-O3'	5.26	116.76	105.20
37	3	121	U	N1-C2-N3	-5.26	111.75	114.90
38	4	152	G	N1-C6-O6	5.26	123.05	119.90
80	6	371	G	OP2-P-O3'	5.26	116.77	105.20
80	6	508	U	N3-C2-O2	5.26	125.88	122.20
80	6	549	G	N3-C4-N9	-5.26	122.85	126.00
80	6	943	C	C4-C5-C6	-5.26	114.77	117.40
85	5	232	G	C8-N9-C4	-5.26	104.30	106.40
85	5	237	G	C8-N9-C4	-5.26	104.30	106.40
85	5	1072	G	OP1-P-OP2	5.26	127.48	119.60
85	5	1441	G	C6-N1-C2	-5.26	121.95	125.10
85	5	1581	C	C5-C4-N4	-5.26	116.52	120.20
85	5	1824	U	N3-C4-C5	-5.26	111.45	114.60
85	5	2129	U	C6-N1-C2	-5.26	117.85	121.00
85	5	2635	A	C6-C5-N7	-5.26	128.62	132.30
85	5	2905	U	C6-N1-C2	-5.26	117.85	121.00
37	7	33	U	O5'-P-OP2	-5.26	100.97	105.70
1	2	591	A	C2-N3-C4	5.25	113.23	110.60
1	2	1298	U	N3-C4-O4	-5.25	115.72	119.40
36	1	20	A	O5'-P-OP1	-5.25	100.97	105.70
36	1	30	G	O4'-C1'-N9	-5.25	104.00	108.20
36	1	100	A	N7-C8-N9	5.25	116.43	113.80
36	1	822	G	N1-C2-N3	5.25	127.05	123.90
36	1	2123	G	N1-C2-N2	5.25	120.93	116.20
36	1	2351	U	N1-C2-N3	5.25	118.05	114.90
36	1	3130	A	OP1-P-OP2	-5.25	111.72	119.60
37	3	4	U	C5-C6-N1	-5.25	120.07	122.70
40	L3	150	ARG	NE-CZ-NH1	5.25	122.93	120.30
80	6	1237	G	N3-C4-C5	5.25	131.23	128.60
80	6	1551	U	N3-C2-O2	-5.25	118.52	122.20
85	5	835	G	O5'-P-OP1	5.25	117.01	110.70
85	5	1429	G	OP1-P-OP2	-5.25	111.72	119.60
85	5	2121	G	N1-C2-N2	-5.25	111.47	116.20
85	5	2793	G	C4-C5-N7	5.25	112.90	110.80
37	7	120	C	N3-C4-N4	5.25	121.68	118.00
1	2	62	A	C8-N9-C4	5.25	107.90	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	301	A	C6-N1-C2	-5.25	115.45	118.60
1	2	1436	G	O5'-P-OP1	-5.25	100.97	105.70
1	2	1525	G	N7-C8-N9	5.25	115.73	113.10
36	1	61	A	OP2-P-O3'	5.25	116.76	105.20
36	1	903	U	N3-C2-O2	-5.25	118.52	122.20
36	1	1152	G	O5'-P-OP2	-5.25	100.97	105.70
36	1	1817	G	C4-C5-N7	5.25	112.90	110.80
36	1	2319	U	N3-C4-O4	5.25	123.08	119.40
36	1	2641	U	OP1-P-OP2	5.25	127.48	119.60
36	1	3284	G	N9-C4-C5	5.25	107.50	105.40
80	6	334	G	C5-N7-C8	5.25	106.93	104.30
80	6	415	C	OP1-P-OP2	5.25	127.48	119.60
80	6	862	A	C5-N7-C8	-5.25	101.27	103.90
80	6	1372	U	C2-N3-C4	-5.25	123.85	127.00
80	6	1466	G	N3-C4-C5	-5.25	125.97	128.60
3	s1	87	ARG	NE-CZ-NH2	-5.25	117.67	120.30
26	d4	128	LYS	CD-CE-NZ	5.25	123.78	111.70
85	5	1666	G	N3-C2-N2	-5.25	116.22	119.90
85	5	1883	A	O4'-C1'-N9	-5.25	104.00	108.20
85	5	2171	G	C5-C6-O6	5.25	131.75	128.60
85	5	2643	A	OP1-P-O3'	5.25	116.76	105.20
85	5	2669	G	OP1-P-OP2	-5.25	111.72	119.60
85	5	2734	A	N9-C4-C5	5.25	107.90	105.80
85	5	3245	A	C4-C5-C6	5.25	119.63	117.00
39	l2	6	ARG	NE-CZ-NH1	5.25	122.93	120.30
1	2	398	G	C4-C5-N7	5.25	112.90	110.80
1	2	969	G	N1-C6-O6	-5.25	116.75	119.90
1	2	1651	G	N3-C4-N9	-5.25	122.85	126.00
36	1	522	A	N3-C4-C5	5.25	130.48	126.80
36	1	585	A	OP1-P-OP2	5.25	127.48	119.60
36	1	762	U	C5-C6-N1	5.25	125.33	122.70
36	1	951	A	C5-C6-N1	-5.25	115.07	117.70
36	1	1055	A	OP1-P-OP2	-5.25	111.72	119.60
36	1	1683	A	C5-C6-N1	-5.25	115.08	117.70
37	3	105	C	C5-C6-N1	5.25	123.63	121.00
38	4	41	A	O5'-P-OP2	5.25	117.00	110.70
80	6	253	A	N3-C4-C5	5.25	130.48	126.80
80	6	989	U	C6-N1-C2	-5.25	117.85	121.00
80	6	1644	C	N1-C2-O2	5.25	122.05	118.90
85	5	24	G	N3-C2-N2	5.25	123.58	119.90
85	5	120	G	N7-C8-N9	-5.25	110.47	113.10
85	5	558	U	OP2-P-O3'	5.25	116.75	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	694	C	C2-N3-C4	-5.25	117.28	119.90
85	5	763	G	N3-C4-C5	5.25	131.23	128.60
85	5	797	U	C5-C6-N1	-5.25	120.07	122.70
85	5	1361	U	OP1-P-OP2	-5.25	111.72	119.60
85	5	1441	G	N3-C2-N2	-5.25	116.22	119.90
85	5	1586	G	C8-N9-C1'	-5.25	120.17	127.00
85	5	1936	A	C6-C5-N7	-5.25	128.62	132.30
85	5	2381	G	C5-C6-N1	-5.25	108.88	111.50
85	5	2522	G	N1-C2-N3	-5.25	120.75	123.90
85	5	3164	C	N3-C4-C5	5.25	124.00	121.90
85	5	3350	C	N1-C2-N3	-5.25	115.52	119.20
37	7	5	G	C2-N3-C4	-5.25	109.27	111.90
36	1	33	G	C5-N7-C8	5.25	106.92	104.30
36	1	850	U	N1-C2-N3	5.25	118.05	114.90
36	1	1343	A	C6-N1-C2	-5.25	115.45	118.60
36	1	2673	A	OP1-P-OP2	-5.25	111.72	119.60
38	4	52	A	C8-N9-C4	-5.25	103.70	105.80
80	6	210	A	N9-C4-C5	5.25	107.90	105.80
80	6	941	A	C6-C5-N7	5.25	135.97	132.30
80	6	1169	G	N1-C2-N3	5.25	127.05	123.90
85	5	220	G	OP1-P-O3'	5.25	116.75	105.20
85	5	2887	A	N7-C8-N9	5.25	116.42	113.80
1	2	315	A	C5-C6-N1	5.25	120.33	117.70
1	2	351	C	N3-C4-C5	-5.25	119.80	121.90
1	2	776	A	C4-C5-N7	-5.25	108.08	110.70
1	2	1625	G	N9-C4-C5	5.25	107.50	105.40
36	1	418	A	OP2-P-O3'	5.25	116.75	105.20
36	1	799	G	C5-C6-O6	5.25	131.75	128.60
36	1	1145	G	C6-N1-C2	-5.25	121.95	125.10
36	1	1313	G	N1-C2-N3	5.25	127.05	123.90
36	1	1320	C	N1-C2-O2	-5.25	115.75	118.90
36	1	1661	G	N3-C2-N2	5.25	123.58	119.90
36	1	2181	C	C2-N3-C4	5.25	122.52	119.90
36	1	2641	U	N1-C2-N3	-5.25	111.75	114.90
36	1	2763	U	C5-C6-N1	-5.25	120.08	122.70
36	1	3081	C	C2-N1-C1'	-5.25	113.03	118.80
36	1	3376	A	N7-C8-N9	5.25	116.42	113.80
38	4	118	C	C5-C6-N1	-5.25	118.38	121.00
80	6	58	U	OP2-P-O3'	5.25	116.75	105.20
80	6	594	A	C4-C5-N7	-5.25	108.08	110.70
80	6	936	G	C4-C5-N7	5.25	112.90	110.80
80	6	1137	A	N9-C4-C5	-5.25	103.70	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1305	U	C6-N1-C2	5.25	124.15	121.00
80	6	1320	U	N3-C4-C5	5.25	117.75	114.60
80	6	1333	C	N3-C2-O2	5.25	125.57	121.90
85	5	211	A	C5-N7-C8	-5.25	101.28	103.90
85	5	607	A	O5'-P-OP1	-5.25	100.98	105.70
85	5	960	U	C4-C5-C6	-5.25	116.55	119.70
85	5	1677	G	C4-C5-N7	-5.25	108.70	110.80
85	5	2136	C	OP1-P-OP2	5.25	127.47	119.60
85	5	2373	A	OP1-P-OP2	-5.25	111.73	119.60
85	5	2593	A	C5-N7-C8	-5.25	101.28	103.90
85	5	2888	U	N3-C4-C5	5.25	117.75	114.60
38	8	139	U	OP1-P-O3'	5.25	116.75	105.20
1	2	251	A	N1-C2-N3	5.25	131.92	129.30
1	2	841	G	C2-N3-C4	5.25	114.52	111.90
1	2	1195	G	N1-C2-N3	-5.25	120.75	123.90
1	2	1313	G	N1-C2-N3	5.25	127.05	123.90
36	1	775	A	C5-N7-C8	-5.25	101.28	103.90
36	1	876	A	C8-N9-C4	5.25	107.90	105.80
36	1	1128	U	N3-C2-O2	5.25	125.87	122.20
36	1	1288	U	N1-C2-N3	5.25	118.05	114.90
36	1	1498	A	O5'-P-OP1	5.25	117.00	110.70
36	1	1578	C	O5'-P-OP2	-5.25	100.98	105.70
36	1	1824	U	N3-C4-O4	5.25	123.07	119.40
36	1	2148	U	N3-C4-O4	-5.25	115.73	119.40
36	1	2539	C	N1-C2-O2	5.25	122.05	118.90
36	1	2624	G	N1-C6-O6	5.25	123.05	119.90
36	1	2764	C	OP2-P-O3'	5.25	116.74	105.20
36	1	2823	G	OP2-P-O3'	-5.25	93.66	105.20
71	O5	14	LYS	CD-CE-NZ	5.25	123.77	111.70
80	6	266	A	C4-C5-C6	5.25	119.62	117.00
80	6	552	G	C5-C6-N1	5.25	114.12	111.50
80	6	651	G	N1-C2-N2	5.25	120.92	116.20
80	6	801	G	C8-N9-C4	-5.25	104.30	106.40
85	5	103	G	N1-C2-N3	5.25	127.05	123.90
85	5	281	G	O5'-P-OP2	5.25	117.00	110.70
85	5	712	G	C8-N9-C1'	-5.25	120.18	127.00
85	5	1022	U	C4-C5-C6	-5.25	116.55	119.70
85	5	1239	C	C2-N3-C4	5.25	122.52	119.90
85	5	2642	A	N7-C8-N9	5.25	116.42	113.80
85	5	3085	G	N3-C2-N2	-5.25	116.23	119.90
85	5	3234	A	C6-N1-C2	-5.25	115.45	118.60
85	5	3312	U	OP2-P-O3'	5.25	116.74	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3377	G	N1-C2-N2	5.25	120.92	116.20
1	2	1449	G	C5-C6-N1	5.25	114.12	111.50
36	1	65	A	C4-C5-N7	5.25	113.32	110.70
36	1	345	G	OP1-P-OP2	5.25	127.47	119.60
36	1	412	G	N3-C2-N2	-5.25	116.23	119.90
36	1	1401	A	C4-C5-C6	5.25	119.62	117.00
36	1	2515	A	N7-C8-N9	5.25	116.42	113.80
37	3	58	C	N3-C4-C5	-5.25	119.80	121.90
80	6	340	U	C5-C4-O4	5.25	129.05	125.90
80	6	1319	A	C6-N1-C2	-5.25	115.45	118.60
9	s7	118	LEU	CA-CB-CG	5.25	127.36	115.30
85	5	70	A	O4'-C1'-N9	-5.25	104.00	108.20
85	5	1436	U	OP2-P-O3'	-5.25	93.66	105.20
85	5	1654	A	C5-C6-N1	5.25	120.32	117.70
85	5	2663	G	N1-C2-N2	5.25	120.92	116.20
36	1	286	U	C5-C4-O4	5.24	129.05	125.90
36	1	1054	A	OP2-P-O3'	5.24	116.74	105.20
36	1	1607	U	O5'-P-OP1	5.24	116.99	110.70
36	1	2281	A	C5-C6-N6	-5.24	119.50	123.70
36	1	2529	A	OP1-P-OP2	5.24	127.47	119.60
36	1	2754	G	N3-C2-N2	5.24	123.57	119.90
38	4	111	A	N9-C4-C5	5.24	107.90	105.80
40	L3	275	ARG	NE-CZ-NH2	5.24	122.92	120.30
80	6	1100	G	C5-N7-C8	-5.24	101.68	104.30
80	6	1275	A	N3-C4-C5	5.24	130.47	126.80
80	6	1792	G	O5'-P-OP1	-5.24	100.98	105.70
85	5	149	U	C6-N1-C2	-5.24	117.85	121.00
85	5	554	A	C5-N7-C8	-5.24	101.28	103.90
85	5	925	A	OP1-P-O3'	5.24	116.74	105.20
85	5	1027	A	C5-N7-C8	5.24	106.52	103.90
85	5	1567	U	N3-C4-C5	-5.24	111.45	114.60
85	5	2138	A	C5-C6-N6	-5.24	119.50	123.70
85	5	2946	A	C6-C5-N7	-5.24	128.63	132.30
85	5	2984	C	C2-N1-C1'	5.24	124.57	118.80
85	5	3106	A	N3-C4-N9	-5.24	123.20	127.40
85	5	3275	U	P-O3'-C3'	5.24	125.99	119.70
37	7	1	G	N1-C6-O6	5.24	123.05	119.90
47	m0	177	ASP	CB-CG-OD2	5.24	123.02	118.30
59	n3	109	MET	CB-CG-SD	-5.24	96.67	112.40
1	2	584	C	N1-C2-N3	5.24	122.87	119.20
36	1	542	G	N3-C2-N2	-5.24	116.23	119.90
36	1	577	C	P-O3'-C3'	5.24	125.99	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	711	A	O5'-P-OP2	-5.24	100.98	105.70
36	1	1621	A	O5'-P-OP1	5.24	116.99	110.70
26	d4	105	ARG	NE-CZ-NH1	-5.24	117.68	120.30
85	5	1276	U	N3-C4-O4	-5.24	115.73	119.40
85	5	1281	G	O4'-C1'-N9	5.24	112.39	108.20
85	5	2690	G	C5-C6-O6	-5.24	125.45	128.60
85	5	2891	U	C4-C5-C6	-5.24	116.56	119.70
1	2	741	U	N3-C4-O4	-5.24	115.73	119.40
1	2	997	G	C6-N1-C2	-5.24	121.96	125.10
1	2	1177	A	C2-N3-C4	5.24	113.22	110.60
36	1	32	U	C4-C5-C6	5.24	122.84	119.70
36	1	282	G	C2'-C3'-O3'	5.24	122.08	113.70
36	1	411	U	C4-C5-C6	5.24	122.84	119.70
36	1	422	A	C4-C5-C6	5.24	119.62	117.00
36	1	829	U	O4'-C1'-N1	-5.24	104.01	108.20
36	1	2352	A	C4-C5-C6	5.24	119.62	117.00
36	1	2426	U	O5'-P-OP2	5.24	116.99	110.70
36	1	2961	G	C4-C5-N7	-5.24	108.70	110.80
36	1	2964	G	C2-N3-C4	-5.24	109.28	111.90
36	1	3052	G	N1-C2-N3	5.24	127.04	123.90
37	3	73	C	C2-N3-C4	5.24	122.52	119.90
38	4	132	G	C6-C5-N7	5.24	133.54	130.40
54	M8	111	ARG	NE-CZ-NH1	-5.24	117.68	120.30
80	6	148	A	C5-C6-N6	-5.24	119.51	123.70
80	6	175	G	O5'-P-OP2	-5.24	100.98	105.70
80	6	828	U	N1-C2-N3	-5.24	111.75	114.90
80	6	1086	A	C4-C5-C6	-5.24	114.38	117.00
80	6	1170	G	C8-N9-C1'	-5.24	120.19	127.00
80	6	1344	A	OP1-P-OP2	5.24	127.46	119.60
85	5	509	U	C2-N1-C1'	-5.24	111.41	117.70
85	5	605	U	C4-C5-C6	5.24	122.84	119.70
85	5	826	G	N3-C2-N2	-5.24	116.23	119.90
85	5	910	G	C2-N3-C4	-5.24	109.28	111.90
85	5	1514	G	N7-C8-N9	5.24	115.72	113.10
85	5	2893	C	C5-C4-N4	-5.24	116.53	120.20
85	5	3017	A	C5-N7-C8	5.24	106.52	103.90
85	5	3310	A	N1-C2-N3	5.24	131.92	129.30
85	5	3334	U	N3-C4-C5	5.24	117.75	114.60
85	5	3379	C	C2-N3-C4	5.24	122.52	119.90
37	7	40	C	O4'-C1'-N1	5.24	112.39	108.20
40	l3	117	ARG	NE-CZ-NH2	5.24	122.92	120.30
1	2	846	A	C5-C6-N6	-5.24	119.51	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1400	A	C2-N3-C4	-5.24	107.98	110.60
36	1	561	C	OP1-P-OP2	-5.24	111.74	119.60
36	1	962	A	OP1-P-OP2	5.24	127.46	119.60
36	1	1416	C	C6-N1-C1'	-5.24	114.52	120.80
36	1	2878	G	C5-N7-C8	-5.24	101.68	104.30
38	4	53	A	OP1-P-OP2	5.24	127.46	119.60
59	N3	69	LEU	CB-CG-CD2	-5.24	102.10	111.00
80	6	1216	C	C6-N1-C2	-5.24	118.20	120.30
80	6	1244	A	C2-N3-C4	5.24	113.22	110.60
80	6	1646	C	C6-N1-C2	-5.24	118.20	120.30
85	5	570	A	OP2-P-O3'	5.24	116.72	105.20
85	5	1279	C	N3-C4-C5	-5.24	119.81	121.90
85	5	1517	G	N1-C2-N3	5.24	127.04	123.90
85	5	1697	A	C6-N1-C2	5.24	121.74	118.60
85	5	2307	G	C5-N7-C8	5.24	106.92	104.30
85	5	2422	C	C2-N3-C4	-5.24	117.28	119.90
85	5	3142	A	OP1-P-O3'	-5.24	93.67	105.20
85	5	3147	G	C6-C5-N7	-5.24	127.26	130.40
56	n0	109	ASP	CB-CG-OD1	-5.24	113.58	118.30
1	2	1360	U	OP1-P-O3'	5.24	116.72	105.20
36	1	346	C	C5-C4-N4	-5.24	116.53	120.20
36	1	1430	U	N3-C2-O2	5.24	125.87	122.20
36	1	1538	G	OP2-P-O3'	5.24	116.72	105.20
36	1	2156	C	N1-C2-N3	5.24	122.87	119.20
36	1	2443	A	O5'-P-OP2	-5.24	100.99	105.70
36	1	2623	G	N3-C4-C5	5.24	131.22	128.60
36	1	2662	G	N1-C2-N3	5.24	127.04	123.90
36	1	2990	G	N1-C2-N3	5.24	127.04	123.90
36	1	3207	U	C6-N1-C2	-5.24	117.86	121.00
38	4	2	A	N3-C4-C5	5.24	130.47	126.80
80	6	46	A	N3-C4-N9	-5.24	123.21	127.40
80	6	1537	C	C4-C5-C6	-5.24	114.78	117.40
85	5	511	G	OP1-P-OP2	5.24	127.45	119.60
85	5	590	G	N1-C6-O6	5.24	123.04	119.90
85	5	1534	A	N9-C4-C5	5.24	107.89	105.80
85	5	3201	C	O5'-P-OP2	5.24	116.98	110.70
37	7	25	G	N9-C4-C5	5.24	107.50	105.40
37	7	101	G	OP1-P-OP2	-5.24	111.75	119.60
1	2	102	U	N1-C2-O2	-5.24	119.14	122.80
1	2	357	G	C4-C5-N7	5.24	112.89	110.80
1	2	442	C	N3-C4-C5	-5.24	119.81	121.90
1	2	1071	A	C2-N3-C4	5.24	113.22	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1582	C	N3-C4-C5	5.24	123.99	121.90
36	1	118	U	N1-C2-O2	-5.24	119.14	122.80
36	1	293	C	N3-C2-O2	5.24	125.56	121.90
36	1	878	G	OP1-P-O3'	5.24	116.72	105.20
36	1	1592	G	C6-C5-N7	-5.24	127.26	130.40
36	1	1604	G	N1-C2-N2	5.24	120.91	116.20
36	1	1855	U	C4-C5-C6	5.24	122.84	119.70
36	1	1952	G	N9-C4-C5	5.24	107.49	105.40
36	1	2158	A	C5-C6-N1	-5.24	115.08	117.70
36	1	2289	U	C5-C4-O4	5.24	129.04	125.90
36	1	2370	G	OP2-P-O3'	5.24	116.72	105.20
36	1	2440	G	C6-C5-N7	5.24	133.54	130.40
80	6	85	A	OP2-P-O3'	5.24	116.72	105.20
80	6	511	A	C4-C5-N7	5.24	113.32	110.70
80	6	765	G	C6-N1-C2	5.24	128.24	125.10
80	6	927	C	N3-C4-C5	-5.24	119.81	121.90
80	6	1075	C	N3-C2-O2	5.24	125.56	121.90
80	6	1358	G	C8-N9-C4	5.24	108.49	106.40
85	5	228	U	N3-C4-C5	5.24	117.74	114.60
85	5	639	G	C6-C5-N7	-5.24	127.26	130.40
85	5	1906	G	C8-N9-C4	-5.24	104.31	106.40
85	5	3155	U	N1-C2-N3	-5.24	111.76	114.90
38	8	10	A	C5-N7-C8	-5.24	101.28	103.90
38	8	66	A	C5-C6-N1	-5.24	115.08	117.70
41	14	276	LEU	CB-CG-CD1	-5.24	102.10	111.00
1	2	44	U	C5-C4-O4	-5.23	122.76	125.90
1	2	279	G	C8-N9-C4	-5.23	104.31	106.40
36	1	266	A	C4-C5-N7	-5.23	108.08	110.70
36	1	924	G	O5'-P-OP2	-5.23	100.99	105.70
36	1	963	G	OP1-P-OP2	-5.23	111.75	119.60
36	1	1634	G	N3-C2-N2	-5.23	116.24	119.90
36	1	2306	C	N3-C2-O2	-5.23	118.24	121.90
36	1	2622	C	N1-C2-O2	-5.23	115.76	118.90
36	1	2865	U	OP1-P-O3'	5.23	116.72	105.20
80	6	375	U	N3-C2-O2	5.23	125.86	122.20
80	6	570	A	C5-C6-N1	-5.23	115.08	117.70
80	6	969	C	N3-C4-N4	-5.23	114.34	118.00
85	5	135	C	C5-C6-N1	5.23	123.62	121.00
85	5	554	A	O5'-P-OP1	-5.23	100.99	105.70
85	5	1004	U	C4-C5-C6	-5.23	116.56	119.70
85	5	3223	A	OP1-P-O3'	5.23	116.72	105.20
85	5	3317	U	O5'-P-OP2	-5.23	100.99	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1012	U	N3-C4-C5	5.23	117.74	114.60
1	2	1314	A	N1-C2-N3	-5.23	126.68	129.30
36	1	19	U	N1-C2-N3	5.23	118.04	114.90
36	1	372	A	C5-N7-C8	-5.23	101.28	103.90
36	1	1009	A	C4-C5-C6	5.23	119.62	117.00
36	1	1064	A	O5'-P-OP2	-5.23	100.99	105.70
36	1	1107	C	C6-N1-C1'	-5.23	114.52	120.80
36	1	1118	C	C2-N1-C1'	5.23	124.56	118.80
36	1	1428	A	C5-N7-C8	-5.23	101.28	103.90
36	1	1671	C	C5-C6-N1	5.23	123.62	121.00
36	1	2527	G	C2-N3-C4	-5.23	109.28	111.90
36	1	3047	U	N1-C2-N3	5.23	118.04	114.90
36	1	3325	G	C6-N1-C2	-5.23	121.96	125.10
37	3	83	U	N3-C2-O2	-5.23	118.54	122.20
80	6	288	A	C5-C6-N6	5.23	127.89	123.70
80	6	295	A	C4-C5-N7	-5.23	108.08	110.70
80	6	670	U	C2-N1-C1'	5.23	123.98	117.70
80	6	891	A	N9-C4-C5	5.23	107.89	105.80
80	6	1269	U	N1-C2-N3	5.23	118.04	114.90
85	5	102	C	N3-C4-N4	5.23	121.66	118.00
85	5	229	G	N3-C4-N9	-5.23	122.86	126.00
85	5	301	G	C8-N9-C1'	-5.23	120.20	127.00
85	5	346	C	O5'-P-OP1	-5.23	100.99	105.70
85	5	417	A	C5-C6-N1	5.23	120.32	117.70
85	5	536	U	N1-C2-N3	5.23	118.04	114.90
85	5	891	G	C5-C6-O6	5.23	131.74	128.60
85	5	1130	A	C8-N9-C4	5.23	107.89	105.80
85	5	1465	A	C5-C6-N1	-5.23	115.08	117.70
85	5	2749	G	N1-C6-O6	-5.23	116.76	119.90
85	5	3342	A	C8-N9-C4	-5.23	103.71	105.80
85	5	3353	G	O5'-P-OP1	-5.23	100.99	105.70
85	5	3370	A	N7-C8-N9	5.23	116.42	113.80
1	2	70	C	OP2-P-O3'	5.23	116.71	105.20
1	2	263	C	OP2-P-O3'	5.23	116.70	105.20
1	2	1368	G	N7-C8-N9	5.23	115.72	113.10
1	2	1609	U	N3-C4-O4	5.23	123.06	119.40
1	2	1775	G	C2-N3-C4	-5.23	109.28	111.90
36	1	11	A	C6-N1-C2	5.23	121.74	118.60
36	1	208	C	C5-C6-N1	5.23	123.61	121.00
36	1	318	A	N7-C8-N9	5.23	116.42	113.80
36	1	945	C	C2-N3-C4	5.23	122.52	119.90
36	1	2116	G	OP1-P-O3'	5.23	116.70	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2176	U	C6-N1-C2	-5.23	117.86	121.00
36	1	2736	A	C5-N7-C8	-5.23	101.28	103.90
36	1	3031	G	OP1-P-O3'	5.23	116.71	105.20
36	1	3380	U	N1-C2-O2	-5.23	119.14	122.80
38	4	116	G	C4-C5-N7	-5.23	108.71	110.80
80	6	23	G	C4-C5-N7	5.23	112.89	110.80
80	6	616	G	N7-C8-N9	5.23	115.72	113.10
85	5	128	G	C6-N1-C2	-5.23	121.96	125.10
85	5	595	G	C8-N9-C4	-5.23	104.31	106.40
85	5	646	A	C5-C6-N1	-5.23	115.08	117.70
85	5	973	A	C8-N9-C4	5.23	107.89	105.80
85	5	1417	G	N3-C4-N9	5.23	129.14	126.00
85	5	1538	G	O5'-P-OP1	-5.23	100.99	105.70
85	5	2175	U	N3-C4-C5	-5.23	111.46	114.60
85	5	2287	C	OP1-P-O3'	5.23	116.71	105.20
85	5	2362	C	C2-N3-C4	5.23	122.52	119.90
85	5	2637	A	OP1-P-OP2	-5.23	111.76	119.60
85	5	3282	U	O5'-P-OP2	-5.23	100.99	105.70
1	2	446	A	N7-C8-N9	5.23	116.42	113.80
1	2	1139	C	N3-C4-C5	5.23	123.99	121.90
36	1	582	G	N1-C2-N2	5.23	120.91	116.20
36	1	896	A	N3-C4-C5	-5.23	123.14	126.80
36	1	2268	U	C6-N1-C2	-5.23	117.86	121.00
3	s1	82	ARG	NE-CZ-NH1	-5.23	117.69	120.30
85	5	968	G	O4'-C1'-N9	-5.23	104.02	108.20
85	5	1286	A	C2-N3-C4	5.23	113.21	110.60
85	5	1329	U	OP1-P-O3'	5.23	116.70	105.20
85	5	1884	A	O5'-P-OP1	-5.23	100.99	105.70
85	5	2512	C	C4-C5-C6	-5.23	114.79	117.40
85	5	3078	U	OP1-P-O3'	-5.23	93.70	105.20
85	5	3258	U	N3-C4-O4	5.23	123.06	119.40
1	2	357	G	N3-C2-N2	5.23	123.56	119.90
1	2	1520	C	N3-C4-C5	-5.23	119.81	121.90
36	1	111	C	OP1-P-O3'	-5.23	93.70	105.20
36	1	142	C	C2-N3-C4	-5.23	117.29	119.90
36	1	894	G	C6-N1-C2	-5.23	121.96	125.10
36	1	1192	C	OP1-P-OP2	-5.23	111.76	119.60
36	1	1858	A	N1-C2-N3	5.23	131.91	129.30
36	1	2148	U	C6-N1-C2	5.23	124.14	121.00
36	1	2326	A	C6-C5-N7	5.23	135.96	132.30
36	1	3166	C	C5-C6-N1	5.23	123.61	121.00
36	1	3198	U	N3-C4-C5	5.23	117.74	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3311	C	N3-C4-N4	-5.23	114.34	118.00
80	6	120	U	N1-C2-N3	5.23	118.04	114.90
80	6	141	U	O5'-P-OP2	5.23	116.97	110.70
80	6	331	A	C6-C5-N7	-5.23	128.64	132.30
80	6	385	A	N9-C4-C5	5.23	107.89	105.80
85	5	159	A	N7-C8-N9	-5.23	111.19	113.80
85	5	926	A	C5-C6-N6	5.23	127.88	123.70
85	5	946	U	C6-N1-C2	5.23	124.14	121.00
85	5	1360	C	C5-C6-N1	-5.23	118.39	121.00
85	5	1665	C	N1-C2-N3	5.23	122.86	119.20
85	5	2205	U	N3-C4-O4	-5.23	115.74	119.40
85	5	2874	G	N3-C4-C5	-5.23	125.99	128.60
53	m7	70	THR	CA-CB-CG2	-5.23	105.08	112.40
1	2	1766	C	C4-C5-C6	-5.23	114.79	117.40
36	1	19	U	C2-N1-C1'	-5.23	111.43	117.70
36	1	828	A	C8-N9-C4	-5.23	103.71	105.80
36	1	1300	G	N3-C4-N9	5.23	129.14	126.00
36	1	2868	U	C4-C5-C6	5.23	122.84	119.70
36	1	3136	G	C4-C5-N7	5.23	112.89	110.80
80	6	632	U	N3-C4-C5	5.23	117.74	114.60
80	6	1072	C	OP2-P-O3'	5.23	116.70	105.20
80	6	1772	C	C5-C6-N1	-5.23	118.39	121.00
85	5	406	G	C2-N3-C4	-5.23	109.29	111.90
85	5	513	G	C8-N9-C4	-5.23	104.31	106.40
85	5	881	C	N3-C4-N4	5.23	121.66	118.00
85	5	1090	G	N1-C6-O6	5.23	123.03	119.90
85	5	1851	G	N3-C2-N2	-5.23	116.24	119.90
85	5	2619	G	C8-N9-C1'	-5.23	120.21	127.00
85	5	2807	U	C5-C6-N1	-5.23	120.09	122.70
85	5	3390	G	N1-C2-N3	-5.23	120.76	123.90
1	2	87	C	C4-C5-C6	5.22	120.01	117.40
1	2	329	G	N1-C2-N3	5.22	127.03	123.90
1	2	1117	C	N3-C4-C5	5.22	123.99	121.90
36	1	20	A	N1-C6-N6	-5.22	115.47	118.60
36	1	347	G	C5-C6-N1	-5.22	108.89	111.50
36	1	559	A	O5'-P-OP2	-5.22	101.00	105.70
36	1	863	C	C6-N1-C2	-5.22	118.21	120.30
36	1	1073	U	O5'-P-OP2	-5.22	101.00	105.70
36	1	1213	G	C2-N3-C4	5.22	114.51	111.90
36	1	1419	A	N7-C8-N9	5.22	116.41	113.80
36	1	1502	C	C5-C4-N4	5.22	123.86	120.20
36	1	1797	A	C5-C6-N1	5.22	120.31	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2276	G	C4-C5-N7	5.22	112.89	110.80
36	1	2314	U	N3-C2-O2	-5.22	118.54	122.20
36	1	3016	A	C6-N1-C2	5.22	121.73	118.60
36	1	3057	U	O5'-P-OP2	5.22	116.97	110.70
36	1	3093	C	C5-C4-N4	-5.22	116.54	120.20
36	1	3094	A	C4-C5-N7	5.22	113.31	110.70
36	1	3185	U	C5-C6-N1	5.22	125.31	122.70
37	3	82	G	C4-N9-C1'	5.22	133.29	126.50
80	6	320	U	C2-N1-C1'	-5.22	111.43	117.70
80	6	370	A	N7-C8-N9	-5.22	111.19	113.80
80	6	808	U	O5'-P-OP1	5.22	116.97	110.70
80	6	963	A	N1-C6-N6	-5.22	115.47	118.60
80	6	1704	U	C2-N3-C4	5.22	130.13	127.00
80	6	1730	A	N1-C2-N3	5.22	131.91	129.30
80	6	1789	G	N3-C4-N9	5.22	129.13	126.00
85	5	66	A	N9-C4-C5	5.22	107.89	105.80
85	5	1447	G	OP2-P-O3'	5.22	116.69	105.20
85	5	1560	G	C4-N9-C1'	-5.22	119.71	126.50
85	5	1585	C	OP2-P-O3'	5.22	116.69	105.20
85	5	1722	U	O5'-P-OP1	5.22	116.97	110.70
85	5	2423	U	N1-C2-O2	-5.22	119.14	122.80
85	5	2732	G	C5-C6-O6	5.22	131.74	128.60
85	5	2824	G	C8-N9-C4	-5.22	104.31	106.40
85	5	3066	U	N1-C2-N3	5.22	118.03	114.90
85	5	3273	A	C4-C5-N7	5.22	113.31	110.70
37	7	1	G	C5-C6-O6	-5.22	125.47	128.60
37	7	63	A	C8-N9-C4	-5.22	103.71	105.80
1	2	418	G	N1-C2-N3	5.22	127.03	123.90
1	2	1594	A	C8-N9-C4	-5.22	103.71	105.80
36	1	23	A	N1-C6-N6	-5.22	115.47	118.60
36	1	143	G	O5'-P-OP1	5.22	116.97	110.70
36	1	274	G	O4'-C1'-N9	-5.22	104.02	108.20
36	1	329	U	N3-C4-C5	5.22	117.73	114.60
36	1	564	G	C8-N9-C4	5.22	108.49	106.40
36	1	635	G	O5'-P-OP1	-5.22	101.00	105.70
36	1	1140	G	C6-N1-C2	5.22	128.23	125.10
36	1	1607	U	C4-C5-C6	-5.22	116.57	119.70
36	1	1874	A	OP2-P-O3'	5.22	116.69	105.20
36	1	2227	C	P-O3'-C3'	5.22	125.97	119.70
36	1	2680	A	C5-C6-N1	5.22	120.31	117.70
36	1	3309	G	N1-C2-N2	-5.22	111.50	116.20
38	4	35	C	N1-C2-N3	5.22	122.86	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
44	L7	127	LEU	CB-CG-CD2	-5.22	102.12	111.00
51	M5	144	ARG	NE-CZ-NH1	-5.22	117.69	120.30
80	6	315	A	N7-C8-N9	5.22	116.41	113.80
80	6	1043	A	C5-N7-C8	-5.22	101.29	103.90
80	6	1218	G	C5-N7-C8	5.22	106.91	104.30
80	6	1628	U	N1-C2-N3	5.22	118.03	114.90
85	5	171	G	N3-C4-N9	5.22	129.13	126.00
85	5	671	U	C2-N1-C1'	-5.22	111.43	117.70
85	5	855	U	C2-N1-C1'	5.22	123.97	117.70
85	5	1006	A	N1-C2-N3	5.22	131.91	129.30
85	5	1299	U	OP1-P-O3'	5.22	116.69	105.20
85	5	1616	U	N3-C4-C5	-5.22	111.47	114.60
85	5	1926	C	N3-C4-C5	5.22	123.99	121.90
85	5	1953	G	C5-C6-O6	-5.22	125.47	128.60
85	5	2348	A	C8-N9-C4	-5.22	103.71	105.80
85	5	2879	C	C5-C4-N4	5.22	123.86	120.20
85	5	2997	G	C6-C5-N7	-5.22	127.27	130.40
85	5	3134	A	C5-C6-N1	5.22	120.31	117.70
1	2	583	C	N3-C4-N4	5.22	121.66	118.00
1	2	826	U	C2-N3-C4	5.22	130.13	127.00
1	2	922	A	C5-C6-N1	5.22	120.31	117.70
1	2	1121	A	OP1-P-O3'	5.22	116.69	105.20
36	1	422	A	C8-N9-C4	-5.22	103.71	105.80
36	1	1181	U	C2-N3-C4	-5.22	123.87	127.00
36	1	2507	C	C6-N1-C1'	5.22	127.06	120.80
36	1	2825	C	O5'-P-OP2	5.22	116.97	110.70
38	4	28	C	C5-C6-N1	5.22	123.61	121.00
80	6	1531	G	O5'-P-OP2	-5.22	101.00	105.70
85	5	172	G	C5-C6-O6	5.22	131.73	128.60
85	5	785	G	O5'-P-OP2	5.22	116.97	110.70
85	5	1318	A	OP1-P-O3'	5.22	116.69	105.20
85	5	1499	C	N3-C2-O2	5.22	125.56	121.90
85	5	1575	A	C8-N9-C4	-5.22	103.71	105.80
85	5	2344	U	N3-C2-O2	-5.22	118.55	122.20
85	5	2705	A	C5-C6-N1	5.22	120.31	117.70
85	5	2715	A	O5'-P-OP1	-5.22	101.00	105.70
85	5	2907	G	C4-C5-N7	5.22	112.89	110.80
85	5	2913	C	C6-N1-C1'	5.22	127.06	120.80
38	8	4	C	N3-C4-C5	5.22	123.99	121.90
51	m5	203	ARG	NE-CZ-NH1	-5.22	117.69	120.30
1	2	194	U	N3-C2-O2	5.22	125.85	122.20
1	2	817	G	N7-C8-N9	5.22	115.71	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	871	U	N3-C4-C5	5.22	117.73	114.60
36	1	16	A	OP1-P-O3'	5.22	116.68	105.20
36	1	337	G	O5'-P-OP1	5.22	116.96	110.70
36	1	518	G	O5'-P-OP2	-5.22	101.00	105.70
36	1	645	A	C4-C5-C6	5.22	119.61	117.00
36	1	791	A	C8-N9-C4	-5.22	103.71	105.80
36	1	1186	G	C5-N7-C8	5.22	106.91	104.30
36	1	1295	G	C5-C6-O6	-5.22	125.47	128.60
36	1	1612	A	C6-C5-N7	-5.22	128.65	132.30
36	1	1877	U	N3-C2-O2	-5.22	118.55	122.20
38	4	49	G	C8-N9-C1'	-5.22	120.21	127.00
61	N5	38	LEU	CB-CG-CD1	-5.22	102.12	111.00
80	6	261	U	N3-C4-C5	5.22	117.73	114.60
80	6	555	A	C2-N3-C4	5.22	113.21	110.60
80	6	883	C	C4-C5-C6	5.22	120.01	117.40
80	6	956	C	N3-C4-C5	-5.22	119.81	121.90
80	6	1324	G	C5-C6-O6	-5.22	125.47	128.60
80	6	1728	A	O5'-P-OP2	-5.22	101.00	105.70
80	6	1762	A	C2-N3-C4	-5.22	107.99	110.60
80	6	1791	A	C8-N9-C4	5.22	107.89	105.80
85	5	781	G	C5-C6-O6	5.22	131.73	128.60
85	5	936	A	O5'-P-OP2	-5.22	101.00	105.70
85	5	1411	C	N1-C2-O2	-5.22	115.77	118.90
85	5	1428	A	C5-N7-C8	5.22	106.51	103.90
85	5	1563	C	N1-C2-O2	-5.22	115.77	118.90
85	5	2130	G	C4-C5-N7	-5.22	108.71	110.80
85	5	2697	A	N9-C4-C5	5.22	107.89	105.80
85	5	2850	G	OP1-P-O3'	5.22	116.68	105.20
37	7	73	C	C2'-C3'-O3'	5.22	122.05	113.70
37	7	79	A	C6-N1-C2	5.22	121.73	118.60
39	12	175	VAL	CA-CB-CG2	-5.22	103.07	110.90
1	2	157	A	N3-C4-C5	5.22	130.45	126.80
1	2	186	C	C5-C6-N1	5.22	123.61	121.00
1	2	336	G	C8-N9-C4	5.22	108.49	106.40
1	2	501	U	C6-N1-C2	5.22	124.13	121.00
1	2	634	G	C8-N9-C4	-5.22	104.31	106.40
36	1	936	A	N1-C6-N6	-5.22	115.47	118.60
36	1	974	G	C6-N1-C2	-5.22	121.97	125.10
36	1	2243	A	C4-C5-C6	5.22	119.61	117.00
36	1	2406	C	O5'-P-OP2	-5.22	101.00	105.70
36	1	3277	U	C2-N1-C1'	5.22	123.96	117.70
52	M6	84	LEU	CA-CB-CG	5.22	127.30	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
76	Q0	103	LEU	CB-CG-CD1	-5.22	102.13	111.00
78	Q2	41	ARG	NE-CZ-NH1	5.22	122.91	120.30
80	6	182	A	C5-C6-N1	-5.22	115.09	117.70
80	6	1140	G	N7-C8-N9	5.22	115.71	113.10
80	6	1741	U	O5'-P-OP2	5.22	116.96	110.70
85	5	15	C	O5'-P-OP2	-5.22	101.00	105.70
85	5	517	G	N1-C2-N3	5.22	127.03	123.90
85	5	1259	A	N3-C4-C5	-5.22	123.15	126.80
85	5	2184	U	N1-C2-O2	-5.22	119.15	122.80
85	5	2301	U	N3-C2-O2	5.22	125.85	122.20
85	5	2985	C	C2-N3-C4	-5.22	117.29	119.90
85	5	3212	C	N1-C2-N3	5.22	122.85	119.20
37	7	55	A	C5-C6-N1	5.22	120.31	117.70
79	q3	8	VAL	CA-CB-CG2	-5.22	103.07	110.90
1	2	509	G	O5'-P-OP1	-5.22	101.01	105.70
1	2	634	G	C6-C5-N7	-5.22	127.27	130.40
1	2	1263	C	C4-C5-C6	5.22	120.01	117.40
1	2	1584	G	C6-N1-C2	-5.22	121.97	125.10
1	2	1638	A	C6-N1-C2	-5.22	115.47	118.60
1	2	1666	C	N3-C4-C5	5.22	123.99	121.90
1	2	1801	C	C5-C4-N4	5.22	123.85	120.20
36	1	208	C	O5'-P-OP1	-5.22	101.00	105.70
36	1	220	G	N9-C4-C5	5.22	107.49	105.40
36	1	793	C	C2-N1-C1'	-5.22	113.06	118.80
36	1	892	U	O5'-P-OP1	5.22	116.96	110.70
36	1	1409	G	C6-N1-C2	-5.22	121.97	125.10
36	1	1627	U	C2-N3-C4	5.22	130.13	127.00
36	1	1735	G	O4'-C1'-N9	5.22	112.37	108.20
36	1	2206	G	N3-C4-N9	5.22	129.13	126.00
36	1	2515	A	C5-C6-N6	5.22	127.87	123.70
36	1	2610	G	N3-C2-N2	-5.22	116.25	119.90
36	1	2630	C	N1-C2-O2	-5.22	115.77	118.90
37	3	89	G	N1-C2-N3	5.22	127.03	123.90
38	4	144	G	N3-C4-N9	-5.22	122.87	126.00
80	6	372	G	N1-C6-O6	5.22	123.03	119.90
80	6	451	A	C5-N7-C8	-5.22	101.29	103.90
80	6	700	C	C6-N1-C2	-5.22	118.21	120.30
80	6	981	U	C6-N1-C2	-5.22	117.87	121.00
3	s1	64	ARG	NE-CZ-NH1	-5.22	117.69	120.30
85	5	107	A	OP1-P-O3'	-5.22	93.72	105.20
85	5	139	G	OP1-P-OP2	-5.22	111.78	119.60
85	5	362	U	N3-C2-O2	5.22	125.85	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	595	G	C5-C6-N1	-5.22	108.89	111.50
85	5	774	G	OP1-P-OP2	5.22	127.42	119.60
85	5	889	U	N3-C4-O4	-5.22	115.75	119.40
85	5	1140	G	O5'-P-OP1	-5.22	101.00	105.70
85	5	1376	C	O5'-P-OP2	-5.22	101.01	105.70
85	5	1382	G	C4-C5-C6	-5.22	115.67	118.80
85	5	1574	C	P-O3'-C3'	5.22	125.96	119.70
85	5	2327	U	N3-C2-O2	5.22	125.85	122.20
85	5	2721	A	C5-C6-N1	-5.22	115.09	117.70
85	5	2754	G	C2-N3-C4	-5.22	109.29	111.90
85	5	2810	C	N3-C4-C5	-5.22	119.81	121.90
85	5	2816	G	OP1-P-OP2	-5.22	111.78	119.60
38	8	18	U	OP2-P-O3'	5.22	116.67	105.20
88	n4	56	ARG	NE-CZ-NH2	-5.22	117.69	120.30
1	2	36	C	C5-C6-N1	-5.21	118.39	121.00
1	2	301	A	C4-C5-C6	5.21	119.61	117.00
1	2	732	U	N1-C2-O2	5.21	126.45	122.80
1	2	924	A	N9-C4-C5	5.21	107.89	105.80
1	2	1184	G	C4-C5-N7	5.21	112.89	110.80
1	2	1190	C	C6-N1-C2	5.21	122.39	120.30
1	2	1385	G	C6-C5-N7	-5.21	127.27	130.40
1	2	1515	U	C5-C6-N1	5.21	125.31	122.70
1	2	1641	G	C2-N3-C4	-5.21	109.29	111.90
36	1	148	G	C6-N1-C2	-5.21	121.97	125.10
36	1	999	G	C4-C5-C6	-5.21	115.67	118.80
36	1	1090	G	N1-C2-N2	-5.21	111.51	116.20
36	1	1097	G	C5-C6-N1	5.21	114.11	111.50
36	1	1724	U	O5'-P-OP1	5.21	116.96	110.70
36	1	2183	A	OP2-P-O3'	5.21	116.67	105.20
36	1	2434	U	OP1-P-OP2	5.21	127.42	119.60
36	1	2765	C	C5-C6-N1	-5.21	118.39	121.00
36	1	2830	G	C6-C5-N7	-5.21	127.27	130.40
80	6	230	C	N1-C2-N3	-5.21	115.55	119.20
80	6	513	U	N1-C2-N3	5.21	118.03	114.90
80	6	1746	A	C5-C6-N1	-5.21	115.09	117.70
85	5	330	G	OP2-P-O3'	5.21	116.67	105.20
85	5	376	G	O5'-P-OP2	5.21	116.96	110.70
85	5	722	G	C4-N9-C1'	5.21	133.28	126.50
85	5	1592	G	C4-N9-C1'	5.21	133.28	126.50
85	5	1686	U	OP1-P-OP2	5.21	127.42	119.60
85	5	1697	A	N9-C4-C5	-5.21	103.71	105.80
85	5	1748	G	C5-C6-O6	5.21	131.73	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2968	G	C8-N9-C1'	-5.21	120.22	127.00
49	m3	70	ARG	NE-CZ-NH2	-5.21	117.69	120.30
52	m6	99	LEU	CA-CB-CG	5.21	127.29	115.30
73	o7	65	ARG	NE-CZ-NH2	-5.21	117.69	120.30
1	2	555	A	N1-C2-N3	-5.21	126.69	129.30
1	2	1509	A	N1-C2-N3	-5.21	126.69	129.30
1	2	1564	C	N3-C4-C5	5.21	123.98	121.90
36	1	272	G	C8-N9-C4	5.21	108.48	106.40
36	1	511	G	C4-C5-C6	5.21	121.93	118.80
36	1	1642	A	OP1-P-OP2	-5.21	111.78	119.60
36	1	1889	G	C8-N9-C4	5.21	108.48	106.40
36	1	3213	A	N1-C6-N6	5.21	121.73	118.60
80	6	219	A	N7-C8-N9	-5.21	111.19	113.80
80	6	414	C	N1-C2-O2	5.21	122.03	118.90
80	6	1567	U	OP1-P-OP2	-5.21	111.78	119.60
85	5	417	A	N7-C8-N9	-5.21	111.19	113.80
85	5	1357	G	C4-C5-N7	5.21	112.89	110.80
85	5	2676	A	OP2-P-O3'	5.21	116.67	105.20
85	5	3045	G	OP2-P-O3'	5.21	116.67	105.20
1	2	402	C	C2-N3-C4	5.21	122.50	119.90
1	2	737	A	C4-C5-N7	-5.21	108.09	110.70
1	2	1326	U	N3-C2-O2	5.21	125.85	122.20
36	1	50	U	N3-C4-O4	5.21	123.05	119.40
36	1	1068	C	N3-C4-C5	5.21	123.98	121.90
36	1	1382	G	N1-C6-O6	-5.21	116.77	119.90
36	1	1495	U	N3-C2-O2	5.21	125.85	122.20
36	1	1526	U	C4-C5-C6	5.21	122.83	119.70
36	1	2344	U	C5-C4-O4	5.21	129.03	125.90
36	1	2650	U	C6-N1-C2	-5.21	117.87	121.00
37	3	103	A	O4'-C1'-N9	-5.21	104.03	108.20
38	4	125	U	C4-C5-C6	-5.21	116.57	119.70
80	6	748	U	C5-C6-N1	5.21	125.31	122.70
80	6	1354	G	N1-C6-O6	5.21	123.03	119.90
80	6	1521	G	C6-N1-C2	-5.21	121.97	125.10
80	6	1748	G	N3-C2-N2	-5.21	116.25	119.90
85	5	198	A	OP2-P-O3'	5.21	116.67	105.20
85	5	497	C	N1-C2-O2	-5.21	115.77	118.90
85	5	1261	G	C5-N7-C8	-5.21	101.69	104.30
85	5	1800	A	C6-C5-N7	5.21	135.95	132.30
85	5	2164	A	N7-C8-N9	5.21	116.41	113.80
85	5	2206	G	C4-C5-C6	-5.21	115.67	118.80
85	5	2410	U	C5-C6-N1	5.21	125.31	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2836	C	N3-C2-O2	5.21	125.55	121.90
85	5	2868	U	N1-C2-O2	5.21	126.45	122.80
85	5	3390	G	O4'-C1'-N9	-5.21	104.03	108.20
1	2	96	G	C2-N3-C4	5.21	114.50	111.90
1	2	256	A	C5-C6-N6	5.21	127.87	123.70
36	1	211	A	C4-C5-N7	5.21	113.31	110.70
36	1	1286	A	N1-C2-N3	5.21	131.91	129.30
36	1	1591	G	C4-C5-C6	5.21	121.93	118.80
80	6	357	G	C2-N3-C4	-5.21	109.30	111.90
80	6	579	A	N9-C4-C5	-5.21	103.72	105.80
80	6	770	A	OP2-P-O3'	5.21	116.66	105.20
85	5	1166	G	OP1-P-OP2	-5.21	111.78	119.60
85	5	1932	A	N7-C8-N9	-5.21	111.19	113.80
85	5	3053	G	C2-N3-C4	-5.21	109.30	111.90
1	2	133	U	OP2-P-O3'	5.21	116.66	105.20
1	2	170	U	C5-C6-N1	-5.21	120.09	122.70
1	2	683	C	C2-N3-C4	5.21	122.50	119.90
1	2	1191	A	C2-N3-C4	-5.21	108.00	110.60
36	1	33	G	C4-C5-C6	5.21	121.92	118.80
36	1	227	G	C6-N1-C2	5.21	128.22	125.10
36	1	241	G	OP1-P-O3'	5.21	116.66	105.20
36	1	424	G	C6-N1-C2	-5.21	121.97	125.10
36	1	511	G	C6-N1-C2	-5.21	121.97	125.10
36	1	607	A	OP1-P-OP2	5.21	127.41	119.60
36	1	1458	U	N1-C2-O2	-5.21	119.15	122.80
36	1	1829	G	N7-C8-N9	-5.21	110.50	113.10
36	1	1912	U	OP2-P-O3'	5.21	116.66	105.20
36	1	2982	A	C6-C5-N7	5.21	135.94	132.30
36	1	3108	G	C5-C6-O6	5.21	131.72	128.60
36	1	3289	G	N3-C4-C5	-5.21	126.00	128.60
36	1	3390	G	C4-C5-N7	5.21	112.88	110.80
38	4	29	U	OP2-P-O3'	5.21	116.66	105.20
80	6	654	C	C2-N3-C4	5.21	122.50	119.90
80	6	1637	C	C4-C5-C6	5.21	120.00	117.40
85	5	166	C	N1-C2-O2	5.21	122.03	118.90
85	5	206	G	N1-C2-N3	-5.21	120.78	123.90
85	5	803	C	N3-C2-O2	5.21	125.55	121.90
85	5	1161	G	C4-C5-C6	-5.21	115.67	118.80
85	5	1414	G	C4-C5-N7	5.21	112.88	110.80
85	5	1649	U	OP2-P-O3'	5.21	116.66	105.20
85	5	2105	G	N7-C8-N9	5.21	115.70	113.10
85	5	3170	A	OP1-P-OP2	5.21	127.41	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	103	G	C2-N3-C4	-5.21	109.30	111.90
1	2	563	U	N1-C2-O2	5.21	126.44	122.80
1	2	885	G	C5-C6-N1	-5.21	108.90	111.50
36	1	898	U	N1-C2-O2	5.21	126.44	122.80
36	1	994	G	C5-C6-N1	5.21	114.10	111.50
36	1	1009	A	OP2-P-O3'	5.21	116.65	105.20
36	1	1134	G	C2-N3-C4	5.21	114.50	111.90
36	1	1372	C	C5-C4-N4	5.21	123.84	120.20
36	1	1509	A	O4'-C1'-N9	-5.21	104.03	108.20
36	1	2187	G	N3-C2-N2	-5.21	116.26	119.90
36	1	2194	G	C5-N7-C8	-5.21	101.70	104.30
36	1	2333	C	N3-C4-C5	5.21	123.98	121.90
36	1	3113	A	C5-C6-N6	5.21	127.87	123.70
36	1	3165	A	C8-N9-C4	5.21	107.88	105.80
37	3	115	G	C5-N7-C8	-5.21	101.70	104.30
38	4	16	G	N1-C6-O6	-5.21	116.78	119.90
38	4	123	G	N1-C2-N2	5.21	120.89	116.20
80	6	126	A	C6-C5-N7	5.21	135.94	132.30
80	6	321	C	O5'-P-OP1	-5.21	101.01	105.70
80	6	957	G	C2-N3-C4	-5.21	109.30	111.90
85	5	830	A	N7-C8-N9	5.21	116.40	113.80
85	5	975	C	C2-N3-C4	5.21	122.50	119.90
85	5	1335	C	C5-C6-N1	5.21	123.60	121.00
85	5	1633	C	OP2-P-O3'	5.21	116.65	105.20
85	5	1815	U	C4-C5-C6	-5.21	116.58	119.70
85	5	2796	G	N9-C4-C5	5.21	107.48	105.40
85	5	2842	U	N1-C2-O2	5.21	126.44	122.80
85	5	3049	A	N1-C2-N3	5.21	131.90	129.30
1	2	312	A	C6-C5-N7	-5.21	128.66	132.30
36	1	569	A	C4-C5-C6	5.21	119.60	117.00
36	1	801	A	C4-C5-N7	5.21	113.30	110.70
36	1	824	C	N3-C4-N4	5.21	121.64	118.00
36	1	1048	A	C8-N9-C4	5.21	107.88	105.80
36	1	1670	C	C5-C4-N4	-5.21	116.56	120.20
36	1	2851	A	C2-N3-C4	-5.21	108.00	110.60
36	1	2892	A	C5-C6-N6	5.21	127.86	123.70
80	6	1148	C	C5-C4-N4	5.21	123.84	120.20
80	6	1735	U	N1-C2-O2	5.21	126.44	122.80
85	5	98	G	OP1-P-OP2	-5.21	111.79	119.60
85	5	704	U	C2-N1-C1'	5.21	123.95	117.70
85	5	1242	G	C8-N9-C4	-5.21	104.32	106.40
85	5	1536	G	N1-C2-N2	5.21	120.89	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2648	G	OP1-P-O3'	5.21	116.65	105.20
85	5	2719	U	C5'-C4'-O4'	5.21	115.35	109.10
85	5	3020	U	C2-N1-C1'	5.21	123.95	117.70
49	m3	42	ARG	NE-CZ-NH2	-5.21	117.70	120.30
1	2	499	U	N1-C2-N3	-5.20	111.78	114.90
1	2	835	C	C5-C4-N4	-5.20	116.56	120.20
1	2	1604	U	C6-N1-C2	-5.20	117.88	121.00
36	1	750	G	OP2-P-O3'	5.20	116.65	105.20
36	1	1115	G	C5-C6-O6	5.20	131.72	128.60
36	1	1171	G	C5-C6-N1	5.20	114.10	111.50
36	1	1337	A	C5-C6-N1	5.20	120.30	117.70
36	1	2163	C	C4-C5-C6	5.20	120.00	117.40
36	1	2944	U	O5'-P-OP1	-5.20	101.02	105.70
36	1	3117	C	C5-C6-N1	5.20	123.60	121.00
36	1	3124	G	C4-C5-N7	-5.20	108.72	110.80
37	3	49	G	C6-C5-N7	5.20	133.52	130.40
80	6	257	A	C8-N9-C4	5.20	107.88	105.80
80	6	1698	G	N3-C4-C5	-5.20	126.00	128.60
3	s1	41	ARG	NE-CZ-NH1	5.20	122.90	120.30
85	5	157	A	N3-C4-C5	-5.20	123.16	126.80
85	5	236	G	OP1-P-O3'	-5.20	93.75	105.20
85	5	637	C	C2-N3-C4	5.20	122.50	119.90
85	5	1411	C	N3-C2-O2	5.20	125.54	121.90
85	5	1506	A	N3-C4-C5	5.20	130.44	126.80
85	5	1600	U	N3-C4-O4	-5.20	115.76	119.40
85	5	1885	U	C2-N1-C1'	-5.20	111.45	117.70
85	5	1916	U	OP1-P-OP2	-5.20	111.80	119.60
85	5	2164	A	C5-C6-N6	5.20	127.86	123.70
85	5	2269	U	C4-C5-C6	5.20	122.82	119.70
85	5	2382	G	C4-C5-C6	-5.20	115.68	118.80
85	5	2720	G	N1-C6-O6	-5.20	116.78	119.90
85	5	3210	A	OP1-P-OP2	5.20	127.41	119.60
37	7	101	G	C4-N9-C1'	5.20	133.26	126.50
38	8	66	A	N3-C4-C5	-5.20	123.16	126.80
38	8	88	A	OP2-P-O3'	5.20	116.65	105.20
38	8	132	G	N1-C2-N2	-5.20	111.52	116.20
1	2	1049	C	C2-N3-C4	-5.20	117.30	119.90
1	2	1725	U	C5-C6-N1	5.20	125.30	122.70
36	1	413	U	N1-C2-O2	5.20	126.44	122.80
36	1	525	C	OP1-P-OP2	5.20	127.40	119.60
36	1	1524	A	P-O3'-C3'	5.20	125.94	119.70
36	1	2717	U	N1-C2-O2	-5.20	119.16	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	385	A	N1-C6-N6	-5.20	115.48	118.60
80	6	962	C	C6-N1-C2	5.20	122.38	120.30
85	5	210	U	N1-C2-O2	5.20	126.44	122.80
85	5	231	G	C4-C5-N7	5.20	112.88	110.80
85	5	1331	U	N1-C2-O2	-5.20	119.16	122.80
85	5	1400	G	C5-C6-N1	-5.20	108.90	111.50
85	5	1662	G	N1-C2-N2	5.20	120.88	116.20
85	5	1789	G	O4'-C1'-N9	5.20	112.36	108.20
52	m6	15	LEU	CB-CG-CD2	-5.20	102.16	111.00
1	2	408	C	N3-C2-O2	-5.20	118.26	121.90
1	2	434	G	C5-C6-N1	-5.20	108.90	111.50
1	2	848	A	C5-N7-C8	-5.20	101.30	103.90
1	2	955	G	C2-N3-C4	-5.20	109.30	111.90
1	2	1313	G	C2-N3-C4	-5.20	109.30	111.90
1	2	1756	C	O5'-P-OP1	-5.20	101.02	105.70
36	1	431	U	OP1-P-O3'	-5.20	93.76	105.20
36	1	701	G	N9-C4-C5	5.20	107.48	105.40
36	1	1194	G	C6-N1-C2	-5.20	121.98	125.10
36	1	1829	G	N3-C4-C5	-5.20	126.00	128.60
36	1	2201	G	C5-N7-C8	-5.20	101.70	104.30
36	1	2545	C	C6-N1-C2	5.20	122.38	120.30
36	1	2980	U	N3-C4-C5	-5.20	111.48	114.60
36	1	3012	A	OP1-P-O3'	5.20	116.64	105.20
36	1	3014	U	O5'-P-OP1	-5.20	101.02	105.70
36	1	3374	U	N1-C2-O2	5.20	126.44	122.80
37	3	75	G	OP1-P-O3'	5.20	116.64	105.20
38	4	57	C	OP1-P-OP2	-5.20	111.80	119.60
80	6	385	A	C4-C5-C6	5.20	119.60	117.00
80	6	901	G	N7-C8-N9	5.20	115.70	113.10
80	6	1112	G	C2-N3-C4	-5.20	109.30	111.90
85	5	33	G	C4-C5-C6	-5.20	115.68	118.80
85	5	342	A	OP1-P-O3'	5.20	116.64	105.20
85	5	805	G	N3-C4-C5	-5.20	126.00	128.60
85	5	1190	A	O4'-C1'-N9	-5.20	104.04	108.20
85	5	1202	A	C5-C6-N6	5.20	127.86	123.70
85	5	1391	C	C6-N1-C1'	-5.20	114.56	120.80
85	5	1750	A	O5'-P-OP1	5.20	116.94	110.70
85	5	2219	A	N7-C8-N9	5.20	116.40	113.80
85	5	2388	U	C6-N1-C2	5.20	124.12	121.00
85	5	2946	A	N1-C6-N6	5.20	121.72	118.60
85	5	3177	G	N1-C6-O6	5.20	123.02	119.90
38	8	30	C	N1-C2-O2	-5.20	115.78	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	100	U	N1-C2-O2	-5.20	119.16	122.80
47	m0	28	ASP	CB-CG-OD1	-5.20	113.62	118.30
1	2	258	C	OP1-P-O3'	5.20	116.64	105.20
1	2	279	G	N1-C2-N3	-5.20	120.78	123.90
1	2	339	C	OP1-P-OP2	-5.20	111.80	119.60
1	2	792	A	N7-C8-N9	5.20	116.40	113.80
1	2	1023	G	C6-C5-N7	-5.20	127.28	130.40
1	2	1274	G	C5-C6-O6	-5.20	125.48	128.60
36	1	286	U	C5-C6-N1	5.20	125.30	122.70
36	1	609	G	N1-C2-N3	-5.20	120.78	123.90
36	1	1097	G	C4-C5-C6	-5.20	115.68	118.80
36	1	1581	C	N3-C4-C5	-5.20	119.82	121.90
36	1	1591	G	C2-N3-C4	-5.20	109.30	111.90
36	1	1664	G	N3-C4-N9	-5.20	122.88	126.00
36	1	1681	U	N1-C2-O2	5.20	126.44	122.80
36	1	1942	U	OP1-P-OP2	5.20	127.40	119.60
36	1	2442	G	C2-N3-C4	-5.20	109.30	111.90
36	1	2643	A	O5'-P-OP2	5.20	116.94	110.70
36	1	2774	C	N3-C4-N4	5.20	121.64	118.00
37	3	30	G	OP1-P-O3'	5.20	116.64	105.20
80	6	368	U	O5'-P-OP2	-5.20	101.02	105.70
80	6	1047	G	N9-C4-C5	-5.20	103.32	105.40
80	6	1075	C	C5-C4-N4	-5.20	116.56	120.20
80	6	1554	U	N3-C2-O2	-5.20	118.56	122.20
80	6	1604	U	C5-C4-O4	-5.20	122.78	125.90
85	5	75	G	P-O3'-C3'	5.20	125.94	119.70
85	5	586	C	C6-N1-C2	5.20	122.38	120.30
85	5	1354	G	C5-C6-O6	5.20	131.72	128.60
85	5	1357	G	P-O3'-C3'	-5.20	113.46	119.70
85	5	1504	A	OP1-P-O3'	-5.20	93.77	105.20
85	5	1525	G	N7-C8-N9	5.20	115.70	113.10
85	5	1624	G	C6-N1-C2	-5.20	121.98	125.10
85	5	1710	C	N1-C2-O2	-5.20	115.78	118.90
85	5	2122	G	N1-C2-N3	5.20	127.02	123.90
85	5	2891	U	C2-N1-C1'	5.20	123.94	117.70
85	5	3085	G	O5'-P-OP1	5.20	116.94	110.70
85	5	3197	G	O5'-P-OP1	5.20	116.94	110.70
85	5	3261	C	N3-C2-O2	5.20	125.54	121.90
36	1	292	U	OP1-P-OP2	-5.20	111.81	119.60
36	1	1255	C	C6-N1-C2	-5.20	118.22	120.30
36	1	1419	A	C6-C5-N7	-5.20	128.66	132.30
36	1	1498	A	OP1-P-O3'	5.20	116.63	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1596	C	C6-N1-C1'	-5.20	114.56	120.80
36	1	1746	U	C6-N1-C2	-5.20	117.88	121.00
85	5	852	U	OP2-P-O3'	5.20	116.63	105.20
85	5	875	G	C6-N1-C2	-5.20	121.98	125.10
85	5	1788	C	O5'-P-OP2	-5.20	101.02	105.70
85	5	2801	A	P-O3'-C3'	-5.20	113.46	119.70
85	5	2872	A	OP1-P-O3'	5.20	116.63	105.20
37	7	101	G	C8-N9-C1'	-5.20	120.25	127.00
1	2	339	C	OP2-P-O3'	5.20	116.63	105.20
1	2	1099	A	C6-C5-N7	-5.20	128.66	132.30
1	2	1596	U	N3-C4-C5	5.20	117.72	114.60
36	1	20	A	C4-C5-N7	-5.20	108.10	110.70
36	1	271	C	C5-C4-N4	5.20	123.84	120.20
36	1	402	A	C5-N7-C8	5.20	106.50	103.90
36	1	1065	A	N1-C2-N3	5.20	131.90	129.30
36	1	1339	C	C2-N1-C1'	5.20	124.52	118.80
36	1	1465	A	N9-C4-C5	-5.20	103.72	105.80
36	1	1680	G	N3-C4-C5	5.20	131.20	128.60
36	1	1882	G	N9-C4-C5	5.20	107.48	105.40
36	1	2239	G	C6-C5-N7	5.20	133.52	130.40
36	1	2350	C	O5'-P-OP2	5.20	116.93	110.70
36	1	2594	C	OP1-P-OP2	-5.20	111.81	119.60
37	3	17	A	C6-C5-N7	-5.20	128.66	132.30
38	4	102	U	O5'-P-OP2	-5.20	101.02	105.70
57	N1	43	LYS	CD-CE-NZ	5.20	123.65	111.70
80	6	3	U	C6-N1-C2	5.20	124.12	121.00
80	6	10	G	C5-C6-N1	-5.20	108.90	111.50
80	6	506	A	N1-C6-N6	5.20	121.72	118.60
85	5	102	C	C6-N1-C2	5.20	122.38	120.30
85	5	501	A	N1-C6-N6	-5.20	115.48	118.60
85	5	514	G	OP1-P-OP2	-5.20	111.81	119.60
85	5	885	U	N1-C2-O2	-5.20	119.16	122.80
85	5	961	C	C5-C4-N4	5.20	123.84	120.20
85	5	990	U	C2-N3-C4	-5.20	123.88	127.00
85	5	1065	A	OP1-P-O3'	5.20	116.63	105.20
85	5	1493	G	OP2-P-O3'	-5.20	93.77	105.20
85	5	1713	G	C6-N1-C2	-5.20	121.98	125.10
85	5	1902	G	O5'-P-OP2	5.20	116.93	110.70
85	5	2242	A	N3-C4-C5	-5.20	123.16	126.80
85	5	2347	U	OP2-P-O3'	5.20	116.63	105.20
85	5	2648	G	N1-C2-N2	-5.20	111.53	116.20
85	5	2816	G	O4'-C1'-N9	5.20	112.36	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	35	U	C5-C6-N1	-5.19	120.10	122.70
1	2	477	A	C8-N9-C4	5.19	107.88	105.80
1	2	1354	A	N7-C8-N9	-5.19	111.20	113.80
36	1	1673	G	C8-N9-C1'	-5.19	120.25	127.00
36	1	1818	U	C6-N1-C2	5.19	124.12	121.00
36	1	2361	A	O5'-P-OP2	-5.19	101.03	105.70
36	1	3052	G	C8-N9-C4	-5.19	104.32	106.40
36	1	3276	G	N1-C2-N3	-5.19	120.78	123.90
62	N6	37	LYS	CD-CE-NZ	-5.19	99.75	111.70
85	5	2897	A	N7-C8-N9	-5.19	111.20	113.80
43	l6	32	ALA	CB-CA-C	-5.19	102.31	110.10
1	2	207	U	N1-C2-O2	5.19	126.44	122.80
1	2	841	G	C5-C6-N1	5.19	114.10	111.50
36	1	113	C	C4-C5-C6	5.19	120.00	117.40
36	1	242	C	N3-C4-C5	-5.19	119.82	121.90
36	1	683	U	C5-C4-O4	-5.19	122.78	125.90
36	1	940	G	C4-C5-C6	-5.19	115.69	118.80
36	1	949	C	C4-C5-C6	5.19	120.00	117.40
36	1	986	U	OP1-P-OP2	5.19	127.39	119.60
36	1	1062	A	O4'-C1'-N9	5.19	112.35	108.20
36	1	1411	C	C4-C5-C6	5.19	120.00	117.40
36	1	1826	C	C6-N1-C2	5.19	122.38	120.30
36	1	1920	U	C5-C4-O4	5.19	129.01	125.90
36	1	2112	U	C2-N3-C4	5.19	130.12	127.00
36	1	2316	G	N1-C6-O6	5.19	123.02	119.90
36	1	2616	C	C2-N3-C4	5.19	122.50	119.90
36	1	2690	G	N7-C8-N9	5.19	115.70	113.10
36	1	3120	C	N1-C2-N3	-5.19	115.57	119.20
36	1	3363	U	OP1-P-O3'	5.19	116.62	105.20
37	3	77	G	C6-C5-N7	-5.19	127.28	130.40
46	L9	52	LEU	CB-CG-CD1	-5.19	102.17	111.00
80	6	386	G	C6-N1-C2	-5.19	121.98	125.10
80	6	1783	C	OP1-P-OP2	-5.19	111.81	119.60
85	5	194	U	C2-N1-C1'	5.19	123.93	117.70
85	5	693	A	C5-C6-N1	5.19	120.30	117.70
85	5	722	G	N3-C4-N9	5.19	129.12	126.00
85	5	1068	C	C6-N1-C1'	5.19	127.03	120.80
85	5	1140	G	C4-C5-N7	5.19	112.88	110.80
85	5	1310	G	C6-C5-N7	-5.19	127.28	130.40
85	5	1385	C	C2-N1-C1'	5.19	124.51	118.80
85	5	2211	U	C5-C6-N1	-5.19	120.10	122.70
85	5	2216	G	N7-C8-N9	5.19	115.70	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3212	C	O5'-P-OP1	5.19	116.93	110.70
38	8	95	G	N3-C4-C5	-5.19	126.00	128.60
38	8	99	C	C6-N1-C2	5.19	122.38	120.30
44	17	131	GLU	OE1-CD-OE2	5.19	129.53	123.30
57	n1	91	LEU	CB-CG-CD1	-5.19	102.17	111.00
1	2	408	C	N3-C4-N4	-5.19	114.37	118.00
1	2	1466	A	N7-C8-N9	5.19	116.39	113.80
36	1	680	G	C8-N9-C1'	-5.19	120.25	127.00
36	1	1164	G	N3-C2-N2	5.19	123.53	119.90
36	1	1358	C	C6-N1-C2	5.19	122.38	120.30
36	1	1364	C	OP2-P-O3'	5.19	116.62	105.20
36	1	1831	U	N3-C4-C5	-5.19	111.49	114.60
36	1	2705	A	C6-N1-C2	-5.19	115.49	118.60
36	1	2824	G	N1-C2-N3	5.19	127.02	123.90
36	1	3057	U	C4-C5-C6	5.19	122.81	119.70
36	1	3366	G	O5'-P-OP1	5.19	116.93	110.70
38	4	125	U	C6-N1-C2	5.19	124.11	121.00
80	6	194	U	N1-C2-O2	5.19	126.43	122.80
80	6	470	A	C4-N9-C1'	5.19	135.64	126.30
80	6	1384	A	C8-N9-C4	-5.19	103.72	105.80
85	5	311	C	O4'-C1'-N1	5.19	112.35	108.20
85	5	792	G	O5'-P-OP2	-5.19	101.03	105.70
85	5	1545	A	C6-C5-N7	-5.19	128.67	132.30
85	5	1560	G	C5-C6-N1	-5.19	108.91	111.50
85	5	1652	G	C4-C5-C6	5.19	121.91	118.80
85	5	1679	A	N1-C6-N6	-5.19	115.49	118.60
85	5	3016	A	C5-N7-C8	-5.19	101.31	103.90
38	8	58	G	N7-C8-N9	5.19	115.69	113.10
1	2	942	U	N3-C4-C5	5.19	117.71	114.60
36	1	75	G	N1-C6-O6	5.19	123.01	119.90
36	1	420	G	C2-N3-C4	5.19	114.50	111.90
36	1	607	A	C5-C6-N6	5.19	127.85	123.70
36	1	957	C	C5-C6-N1	-5.19	118.41	121.00
36	1	965	A	N9-C4-C5	5.19	107.88	105.80
36	1	1008	U	N3-C2-O2	5.19	125.83	122.20
36	1	2418	G	C4-C5-N7	5.19	112.88	110.80
36	1	2636	A	C4-N9-C1'	5.19	135.64	126.30
37	3	29	C	C2-N1-C1'	5.19	124.51	118.80
80	6	616	G	N3-C2-N2	-5.19	116.27	119.90
85	5	610	G	N7-C8-N9	5.19	115.69	113.10
85	5	1330	A	N1-C2-N3	5.19	131.90	129.30
1	2	993	C	OP2-P-O3'	5.19	116.61	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1460	G	C6-C5-N7	-5.19	127.29	130.40
1	2	1708	U	O5'-P-OP1	5.19	116.92	110.70
36	1	70	A	C4-C5-C6	5.19	119.59	117.00
36	1	214	G	N3-C4-C5	5.19	131.19	128.60
36	1	222	A	OP1-P-O3'	5.19	116.61	105.20
36	1	399	A	C4-C5-C6	5.19	119.59	117.00
36	1	666	A	P-O3'-C3'	-5.19	113.47	119.70
36	1	1338	C	N3-C4-N4	-5.19	114.37	118.00
36	1	1867	A	O5'-P-OP2	-5.19	101.03	105.70
36	1	2556	C	C2-N3-C4	-5.19	117.31	119.90
36	1	2990	G	OP1-P-OP2	-5.19	111.82	119.60
36	1	3301	U	O5'-P-OP2	-5.19	101.03	105.70
37	3	19	C	N3-C4-C5	5.19	123.97	121.90
80	6	773	C	O4'-C1'-N1	-5.19	104.05	108.20
80	6	1543	A	N9-C4-C5	-5.19	103.72	105.80
80	6	1701	A	C4-C5-N7	5.19	113.29	110.70
80	6	1747	G	O4'-C1'-N9	-5.19	104.05	108.20
85	5	358	G	N1-C2-N2	5.19	120.87	116.20
85	5	845	G	N7-C8-N9	-5.19	110.51	113.10
85	5	2562	A	N9-C4-C5	-5.19	103.72	105.80
85	5	3350	C	C6-N1-C2	-5.19	118.22	120.30
37	7	21	G	C5-C6-N1	-5.19	108.91	111.50
1	2	1153	G	OP1-P-O3'	5.19	116.61	105.20
36	1	1068	C	C6-N1-C2	5.19	122.37	120.30
36	1	1730	G	OP1-P-OP2	-5.19	111.82	119.60
36	1	2262	A	C5-C6-N6	5.19	127.85	123.70
80	6	234	G	C2-N3-C4	5.19	114.49	111.90
80	6	556	A	C4-C5-N7	5.19	113.29	110.70
85	5	263	C	C2-N3-C4	5.19	122.49	119.90
85	5	412	G	C4-N9-C1'	5.19	133.24	126.50
85	5	1852	G	C5-C6-O6	-5.19	125.49	128.60
1	2	351	C	C6-N1-C2	-5.18	118.23	120.30
1	2	491	C	N3-C4-C5	-5.18	119.83	121.90
1	2	1090	G	C4-C5-N7	-5.18	108.73	110.80
1	2	1109	G	C8-N9-C4	5.18	108.47	106.40
1	2	1430	C	C5-C4-N4	-5.18	116.57	120.20
1	2	1487	G	C2-N3-C4	5.18	114.49	111.90
36	1	174	C	N3-C2-O2	5.18	125.53	121.90
36	1	202	G	N3-C2-N2	-5.18	116.27	119.90
36	1	212	G	OP2-P-O3'	5.18	116.61	105.20
36	1	568	G	N1-C2-N3	5.18	127.01	123.90
36	1	637	C	N3-C2-O2	-5.18	118.27	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	894	G	C2-N3-C4	-5.18	109.31	111.90
36	1	1330	A	C5-C6-N1	-5.18	115.11	117.70
36	1	1422	G	C2-N3-C4	5.18	114.49	111.90
36	1	1507	G	N3-C2-N2	-5.18	116.27	119.90
36	1	1669	C	N3-C2-O2	5.18	125.53	121.90
36	1	2362	C	N1-C2-O2	5.18	122.01	118.90
36	1	2776	C	C6-N1-C1'	-5.18	114.58	120.80
36	1	2939	G	C4-N9-C1'	5.18	133.24	126.50
36	1	3313	U	O5'-P-OP1	5.18	116.92	110.70
37	3	6	C	N3-C2-O2	5.18	125.53	121.90
38	4	11	C	N3-C2-O2	5.18	125.53	121.90
40	L3	352	GLU	OE1-CD-OE2	-5.18	117.08	123.30
80	6	322	G	C6-C5-N7	-5.18	127.29	130.40
80	6	755	A	C6-C5-N7	-5.18	128.67	132.30
80	6	1036	A	N9-C4-C5	5.18	107.87	105.80
80	6	1151	A	C5-N7-C8	-5.18	101.31	103.90
80	6	1160	A	C2-N3-C4	-5.18	108.01	110.60
85	5	76	G	N1-C2-N2	-5.18	111.53	116.20
85	5	394	G	O5'-P-OP2	-5.18	101.03	105.70
85	5	608	A	C6-N1-C2	-5.18	115.49	118.60
85	5	926	A	OP1-P-O3'	5.18	116.61	105.20
85	5	934	G	C2-N3-C4	5.18	114.49	111.90
85	5	972	A	N9-C4-C5	5.18	107.87	105.80
85	5	1200	A	C2-N3-C4	-5.18	108.01	110.60
85	5	1480	G	P-O3'-C3'	-5.18	113.48	119.70
85	5	1525	G	N1-C2-N3	5.18	127.01	123.90
85	5	1574	C	C6-N1-C2	-5.18	118.23	120.30
85	5	1843	C	N1-C2-O2	-5.18	115.79	118.90
85	5	2253	G	C4-C5-N7	5.18	112.87	110.80
85	5	2367	A	C5-N7-C8	-5.18	101.31	103.90
85	5	2736	A	N1-C6-N6	5.18	121.71	118.60
85	5	2793	G	P-O3'-C3'	-5.18	113.48	119.70
85	5	3345	G	C5-C6-O6	-5.18	125.49	128.60
1	2	14	C	C2-N3-C4	5.18	122.49	119.90
1	2	713	G	N7-C8-N9	5.18	115.69	113.10
36	1	204	A	O5'-P-OP2	-5.18	101.04	105.70
36	1	538	G	N1-C2-N3	5.18	127.01	123.90
36	1	705	A	C2-N3-C4	5.18	113.19	110.60
36	1	1507	G	C2-N3-C4	-5.18	109.31	111.90
36	1	1708	C	N1-C2-O2	-5.18	115.79	118.90
36	1	2386	A	C8-N9-C4	-5.18	103.73	105.80
36	1	2528	G	C8-N9-C4	5.18	108.47	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3098	G	C2-N3-C4	-5.18	109.31	111.90
37	3	11	A	OP2-P-O3'	5.18	116.60	105.20
37	3	104	A	C5-C6-N6	5.18	127.85	123.70
80	6	141	U	N3-C2-O2	5.18	125.83	122.20
80	6	248	U	OP1-P-OP2	5.18	127.38	119.60
80	6	773	C	C6-N1-C2	5.18	122.37	120.30
80	6	1013	A	C5-C6-N6	-5.18	119.55	123.70
80	6	1023	A	C4-C5-C6	5.18	119.59	117.00
8	s6	3	LEU	CB-CG-CD2	-5.18	102.19	111.00
85	5	212	G	N3-C2-N2	5.18	123.53	119.90
85	5	225	C	C2-N1-C1'	5.18	124.50	118.80
85	5	1056	U	OP2-P-O3'	5.18	116.60	105.20
85	5	1157	G	N7-C8-N9	-5.18	110.51	113.10
85	5	1310	G	C4-N9-C1'	5.18	133.24	126.50
85	5	1503	A	N7-C8-N9	-5.18	111.21	113.80
85	5	1682	U	OP1-P-OP2	-5.18	111.83	119.60
85	5	1833	G	C4-C5-C6	-5.18	115.69	118.80
85	5	1916	U	C4-C5-C6	-5.18	116.59	119.70
85	5	2111	G	C4-C5-C6	5.18	121.91	118.80
85	5	2214	A	O5'-P-OP2	-5.18	101.04	105.70
85	5	2815	G	C5-C6-O6	-5.18	125.49	128.60
85	5	2925	C	OP1-P-O3'	-5.18	93.80	105.20
1	2	387	A	C4-C5-C6	-5.18	114.41	117.00
8	S6	212	LEU	CA-CB-CG	5.18	127.22	115.30
36	1	725	G	N3-C4-C5	5.18	131.19	128.60
36	1	1330	A	C5'-C4'-O4'	-5.18	102.88	109.10
36	1	1522	U	C5-C4-O4	-5.18	122.79	125.90
36	1	1767	C	O5'-P-OP2	-5.18	101.04	105.70
36	1	2852	C	C4-C5-C6	5.18	119.99	117.40
36	1	3297	U	N3-C2-O2	5.18	125.83	122.20
85	5	545	U	O5'-P-OP2	-5.18	101.04	105.70
85	5	1097	G	N9-C4-C5	5.18	107.47	105.40
85	5	2958	A	N3-C4-C5	-5.18	123.17	126.80
85	5	3210	A	N7-C8-N9	5.18	116.39	113.80
85	5	3339	A	C5-C6-N6	-5.18	119.56	123.70
1	2	1454	A	C5-N7-C8	-5.18	101.31	103.90
3	S1	181	LEU	CA-CB-CG	5.18	127.21	115.30
8	S6	154	ARG	NE-CZ-NH1	5.18	122.89	120.30
36	1	433	A	N3-C4-N9	-5.18	123.26	127.40
36	1	579	G	C2-N3-C4	-5.18	109.31	111.90
36	1	640	U	C6-N1-C1'	5.18	128.45	121.20
36	1	646	A	N3-C4-C5	-5.18	123.17	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1149	G	C8-N9-C4	-5.18	104.33	106.40
36	1	1486	G	C6-C5-N7	-5.18	127.29	130.40
36	1	1931	U	N1-C2-O2	-5.18	119.17	122.80
36	1	2192	C	OP1-P-O3'	5.18	116.59	105.20
36	1	2621	G	C4-C5-N7	5.18	112.87	110.80
80	6	339	C	C4-C5-C6	5.18	119.99	117.40
80	6	943	C	O5'-P-OP1	5.18	116.92	110.70
80	6	956	C	C2-N3-C4	5.18	122.49	119.90
80	6	1014	G	C8-N9-C4	-5.18	104.33	106.40
80	6	1584	G	C4-C5-N7	5.18	112.87	110.80
85	5	58	G	N1-C2-N2	5.18	120.86	116.20
85	5	306	A	C8-N9-C1'	-5.18	118.38	127.70
85	5	1363	A	N1-C2-N3	5.18	131.89	129.30
85	5	1798	A	C6-N1-C2	-5.18	115.49	118.60
85	5	1887	A	N1-C2-N3	5.18	131.89	129.30
85	5	2111	G	N7-C8-N9	5.18	115.69	113.10
85	5	2565	U	C6-N1-C2	-5.18	117.89	121.00
85	5	2620	G	O4'-C1'-N9	5.18	112.34	108.20
85	5	2873	U	C5-C6-N1	-5.18	120.11	122.70
85	5	3330	A	O5'-P-OP2	-5.18	101.04	105.70
1	2	845	A	N7-C8-N9	-5.18	111.21	113.80
1	2	853	C	C6-N1-C2	-5.18	118.23	120.30
36	1	225	C	N3-C4-C5	-5.18	119.83	121.90
36	1	1765	U	C5-C6-N1	5.18	125.29	122.70
36	1	1858	A	C6-C5-N7	-5.18	128.68	132.30
36	1	3122	A	C8-N9-C4	5.18	107.87	105.80
80	6	709	C	C5-C4-N4	-5.18	116.58	120.20
80	6	935	U	N3-C4-O4	5.18	123.02	119.40
80	6	1765	A	OP1-P-O3'	5.18	116.59	105.20
85	5	1757	A	C4-C5-N7	-5.18	108.11	110.70
85	5	2958	A	O5'-P-OP1	5.18	116.91	110.70
85	5	3232	G	C5-C6-N1	-5.18	108.91	111.50
85	5	3322	A	C2-N3-C4	-5.18	108.01	110.60
1	2	129	U	O5'-P-OP2	-5.18	101.04	105.70
1	2	324	U	C5-C4-O4	5.18	129.01	125.90
1	2	946	A	C6-N1-C2	-5.18	115.49	118.60
36	1	191	U	C5-C6-N1	5.18	125.29	122.70
36	1	303	G	N3-C2-N2	-5.18	116.28	119.90
36	1	567	G	N3-C4-N9	-5.18	122.89	126.00
36	1	1087	G	OP1-P-OP2	5.18	127.36	119.60
36	1	1096	U	N3-C4-O4	5.18	123.02	119.40
36	1	1120	A	C4-C5-N7	-5.18	108.11	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1642	A	C4-C5-N7	-5.18	108.11	110.70
36	1	1653	G	C5-C6-N1	-5.18	108.91	111.50
36	1	2113	A	C5-C6-N6	5.18	127.84	123.70
36	1	2571	U	C5-C4-O4	5.18	129.01	125.90
36	1	2725	U	N1-C2-N3	5.18	118.00	114.90
36	1	3026	G	N9-C4-C5	5.18	107.47	105.40
36	1	3157	U	N1-C2-O2	5.18	126.42	122.80
38	4	106	C	N3-C4-N4	5.18	121.62	118.00
80	6	14	C	N1-C2-N3	5.18	122.82	119.20
80	6	109	G	C4-C5-N7	5.18	112.87	110.80
80	6	426	G	O5'-P-OP2	-5.18	101.04	105.70
80	6	501	U	N3-C2-O2	-5.18	118.58	122.20
80	6	737	A	N1-C2-N3	-5.18	126.71	129.30
80	6	950	C	C2-N3-C4	-5.18	117.31	119.90
80	6	1413	U	C5-C4-O4	-5.18	122.79	125.90
85	5	48	A	P-O3'-C3'	5.18	125.91	119.70
85	5	284	A	OP1-P-OP2	-5.18	111.83	119.60
85	5	400	G	N3-C4-C5	-5.18	126.01	128.60
85	5	430	U	OP2-P-O3'	5.18	116.59	105.20
85	5	581	U	OP1-P-OP2	5.18	127.37	119.60
85	5	869	G	OP2-P-O3'	5.18	116.59	105.20
85	5	1573	G	C6-C5-N7	5.18	133.51	130.40
85	5	3312	U	O4'-C1'-N1	5.18	112.34	108.20
85	5	3344	A	N1-C6-N6	-5.18	115.49	118.60
38	8	41	A	N1-C6-N6	-5.18	115.49	118.60
1	2	43	A	N9-C4-C5	5.17	107.87	105.80
1	2	400	A	C6-N1-C2	-5.17	115.50	118.60
1	2	565	C	N1-C2-N3	5.17	122.82	119.20
1	2	1663	G	N1-C6-O6	5.17	123.00	119.90
36	1	768	C	P-O3'-C3'	-5.17	113.49	119.70
36	1	787	G	C6-C5-N7	-5.17	127.30	130.40
36	1	946	U	C5-C4-O4	-5.17	122.80	125.90
36	1	954	U	P-O3'-C3'	-5.17	113.49	119.70
36	1	1184	A	OP2-P-O3'	5.17	116.59	105.20
36	1	1462	A	N9-C4-C5	5.17	107.87	105.80
36	1	1487	G	O5'-P-OP2	5.17	116.91	110.70
36	1	2206	G	C8-N9-C4	5.17	108.47	106.40
36	1	2386	A	C5-N7-C8	-5.17	101.31	103.90
36	1	2610	G	OP2-P-O3'	5.17	116.58	105.20
36	1	2619	G	O5'-P-OP2	5.17	116.91	110.70
36	1	2688	U	O4'-C1'-N1	-5.17	104.06	108.20
36	1	2735	U	C5-C6-N1	-5.17	120.11	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2750	U	N3-C4-C5	-5.17	111.50	114.60
36	1	2779	A	C8-N9-C4	5.17	107.87	105.80
36	1	3175	U	C2-N1-C1'	5.17	123.91	117.70
36	1	3306	U	O5'-P-OP2	-5.17	101.04	105.70
37	3	57	G	C5-C6-N1	5.17	114.09	111.50
39	L2	32	LEU	CA-CB-CG	5.17	127.20	115.30
80	6	548	G	C8-N9-C1'	5.17	133.73	127.00
80	6	557	G	C4-C5-N7	-5.17	108.73	110.80
80	6	1113	A	OP2-P-O3'	5.17	116.59	105.20
80	6	1659	A	N3-C4-N9	-5.17	123.26	127.40
80	6	1721	A	N7-C8-N9	5.17	116.39	113.80
85	5	1020	G	C4-C5-N7	5.17	112.87	110.80
85	5	1620	U	C6-N1-C2	-5.17	117.90	121.00
85	5	1847	A	O5'-P-OP1	5.17	116.91	110.70
85	5	1872	C	C2-N1-C1'	5.17	124.49	118.80
85	5	2358	A	N3-C4-C5	-5.17	123.18	126.80
85	5	2681	U	N3-C2-O2	-5.17	118.58	122.20
85	5	2812	C	OP1-P-OP2	5.17	127.36	119.60
1	2	43	A	C8-N9-C4	-5.17	103.73	105.80
36	1	347	G	N3-C2-N2	5.17	123.52	119.90
36	1	609	G	C4-C5-C6	-5.17	115.70	118.80
36	1	911	C	C2-N3-C4	-5.17	117.31	119.90
36	1	2366	C	N1-C2-O2	5.17	122.00	118.90
36	1	2689	A	C2-N3-C4	-5.17	108.01	110.60
36	1	2726	C	C5-C6-N1	-5.17	118.41	121.00
80	6	77	U	N3-C2-O2	5.17	125.82	122.20
80	6	403	G	N9-C4-C5	-5.17	103.33	105.40
80	6	543	C	P-O3'-C3'	5.17	125.91	119.70
80	6	985	G	C5-C6-N1	-5.17	108.91	111.50
80	6	1140	G	N3-C4-C5	-5.17	126.01	128.60
80	6	1521	G	C6-C5-N7	-5.17	127.30	130.40
85	5	2296	A	N7-C8-N9	-5.17	111.21	113.80
1	2	331	A	OP1-P-OP2	-5.17	111.84	119.60
1	2	870	A	C4-C5-N7	5.17	113.28	110.70
1	2	1506	G	N1-C2-N2	-5.17	111.55	116.20
36	1	23	A	C2-N3-C4	-5.17	108.02	110.60
36	1	35	A	C4-C5-C6	-5.17	114.42	117.00
36	1	785	G	N1-C6-O6	-5.17	116.80	119.90
36	1	1087	G	C5-C6-O6	-5.17	125.50	128.60
36	1	1482	A	C6-C5-N7	5.17	135.92	132.30
36	1	2162	U	C6-N1-C2	5.17	124.10	121.00
36	1	2854	U	O5'-P-OP2	-5.17	101.05	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3212	C	N1-C2-N3	-5.17	115.58	119.20
36	1	3355	U	C2-N3-C4	5.17	130.10	127.00
37	3	69	C	C5-C4-N4	-5.17	116.58	120.20
80	6	298	C	N1-C2-N3	-5.17	115.58	119.20
80	6	979	A	C4-C5-C6	5.17	119.59	117.00
85	5	91	G	N3-C2-N2	-5.17	116.28	119.90
85	5	333	G	C8-N9-C4	5.17	108.47	106.40
85	5	853	G	C4-C5-C6	5.17	121.90	118.80
85	5	1136	A	N3-C4-C5	5.17	130.42	126.80
85	5	1551	C	C2-N1-C1'	5.17	124.49	118.80
85	5	1897	G	N1-C2-N3	5.17	127.00	123.90
85	5	2143	A	N7-C8-N9	5.17	116.39	113.80
85	5	2209	U	C4-C5-C6	5.17	122.80	119.70
85	5	2672	G	O5'-P-OP2	-5.17	101.05	105.70
85	5	2763	U	OP1-P-O3'	5.17	116.58	105.20
85	5	2781	U	N1-C2-O2	-5.17	119.18	122.80
85	5	3014	U	OP1-P-OP2	-5.17	111.84	119.60
37	7	117	A	N3-C4-N9	-5.17	123.26	127.40
37	7	118	A	C4-C5-C6	5.17	119.58	117.00
38	8	19	C	OP1-P-OP2	-5.17	111.84	119.60
38	8	126	A	OP1-P-OP2	-5.17	111.84	119.60
40	13	325	LYS	C-N-CA	-5.17	111.44	122.30
1	2	474	A	C6-N1-C2	5.17	121.70	118.60
1	2	580	A	O5'-P-OP2	-5.17	101.05	105.70
36	1	654	C	N3-C2-O2	5.17	125.52	121.90
36	1	924	G	C4-C5-C6	5.17	121.90	118.80
36	1	2670	G	N3-C4-C5	5.17	131.19	128.60
36	1	2732	G	N1-C2-N2	-5.17	111.55	116.20
36	1	3101	G	N7-C8-N9	-5.17	110.52	113.10
36	1	3159	C	C5-C6-N1	-5.17	118.42	121.00
36	1	3174	A	N3-C4-N9	-5.17	123.26	127.40
36	1	3178	A	O5'-P-OP1	-5.17	101.05	105.70
80	6	281	G	C4-C5-N7	5.17	112.87	110.80
80	6	1199	G	N1-C2-N2	5.17	120.85	116.20
85	5	56	G	C5-N7-C8	-5.17	101.72	104.30
85	5	124	U	N1-C2-N3	5.17	118.00	114.90
85	5	229	G	N9-C4-C5	5.17	107.47	105.40
85	5	2617	U	C2-N3-C4	5.17	130.10	127.00
38	8	129	C	N3-C4-C5	-5.17	119.83	121.90
74	o8	69	LEU	CB-CG-CD2	-5.17	102.21	111.00
1	2	210	A	C5-C6-N6	5.17	127.83	123.70
1	2	287	G	C4-C5-N7	-5.17	108.73	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	594	A	N3-C4-N9	5.17	131.53	127.40
1	2	820	G	C2-N3-C4	-5.17	109.32	111.90
1	2	1313	G	C5-C6-N1	-5.17	108.92	111.50
1	2	1632	G	N3-C2-N2	5.17	123.52	119.90
36	1	199	A	OP2-P-O3'	5.17	116.57	105.20
36	1	603	A	N9-C4-C5	-5.17	103.73	105.80
36	1	638	C	N3-C2-O2	-5.17	118.28	121.90
36	1	846	A	C6-N1-C2	5.17	121.70	118.60
36	1	1458	U	N1-C2-N3	5.17	118.00	114.90
36	1	1896	A	C8-N9-C4	-5.17	103.73	105.80
36	1	2278	C	O5'-P-OP2	-5.17	101.05	105.70
36	1	2293	C	N1-C2-N3	-5.17	115.58	119.20
36	1	2348	A	C5-C6-N1	-5.17	115.12	117.70
36	1	2640	A	C5-C6-N6	-5.17	119.56	123.70
36	1	2803	A	OP2-P-O3'	5.17	116.57	105.20
36	1	3391	A	C5-C6-N6	-5.17	119.56	123.70
38	4	100	U	OP1-P-OP2	-5.17	111.85	119.60
80	6	521	A	C6-N1-C2	5.17	121.70	118.60
85	5	266	A	OP1-P-OP2	5.17	127.35	119.60
85	5	1320	C	OP2-P-O3'	5.17	116.57	105.20
85	5	1444	G	C6-N1-C2	5.17	128.20	125.10
85	5	1706	C	O5'-P-OP2	-5.17	101.05	105.70
85	5	1791	C	C5-C6-N1	5.17	123.58	121.00
85	5	1889	G	N1-C2-N3	-5.17	120.80	123.90
85	5	2223	A	OP1-P-O3'	5.17	116.57	105.20
85	5	2260	U	C5-C6-N1	-5.17	120.12	122.70
85	5	2337	C	O5'-P-OP1	5.17	116.90	110.70
85	5	2519	A	C5-N7-C8	-5.17	101.32	103.90
85	5	2647	A	C2-N3-C4	-5.17	108.02	110.60
85	5	2738	A	OP2-P-O3'	5.17	116.57	105.20
85	5	3074	G	N3-C4-N9	5.17	129.10	126.00
85	5	3376	A	C5-N7-C8	5.17	106.48	103.90
38	8	71	A	O5'-P-OP1	5.17	116.90	110.70
1	2	133	U	C4-C5-C6	5.17	122.80	119.70
1	2	163	G	C2-N3-C4	-5.17	109.32	111.90
1	2	281	G	C2-N3-C4	5.17	114.48	111.90
1	2	872	U	C5-C4-O4	-5.17	122.80	125.90
1	2	1030	G	C4-C5-N7	5.17	112.87	110.80
1	2	1433	U	N3-C4-C5	5.17	117.70	114.60
36	1	204	A	N3-C4-N9	-5.17	123.27	127.40
36	1	204	A	C4-C5-N7	5.17	113.28	110.70
36	1	558	U	N3-C4-C5	5.17	117.70	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	630	A	OP2-P-O3'	5.17	116.57	105.20
36	1	1325	U	C2-N1-C1'	-5.17	111.50	117.70
36	1	1747	G	OP1-P-OP2	-5.17	111.85	119.60
36	1	2112	U	OP2-P-O3'	5.17	116.57	105.20
36	1	3076	C	C5-C4-N4	-5.17	116.58	120.20
36	1	3184	A	N7-C8-N9	5.17	116.38	113.80
38	4	149	A	C8-N9-C4	5.17	107.87	105.80
80	6	637	C	OP1-P-OP2	5.17	127.35	119.60
80	6	754	A	N9-C4-C5	-5.17	103.73	105.80
80	6	1341	A	N9-C4-C5	5.17	107.87	105.80
80	6	1525	A	C2-N3-C4	-5.17	108.02	110.60
80	6	1629	G	N3-C4-C5	-5.17	126.02	128.60
80	6	1662	G	C2-N3-C4	-5.17	109.32	111.90
80	6	1673	G	C8-N9-C4	-5.17	104.33	106.40
85	5	80	G	C8-N9-C4	-5.17	104.33	106.40
85	5	247	C	O5'-P-OP1	5.17	116.90	110.70
85	5	257	U	C2-N1-C1'	5.17	123.90	117.70
85	5	1112	A	O5'-P-OP2	5.17	116.90	110.70
85	5	2411	U	OP1-P-OP2	5.17	127.35	119.60
85	5	2689	A	C8-N9-C4	-5.17	103.73	105.80
85	5	3022	G	OP2-P-O3'	5.17	116.57	105.20
37	7	16	U	C2-N1-C1'	-5.17	111.50	117.70
57	n1	97	LYS	CD-CE-NZ	5.17	123.58	111.70
1	2	1418	G	C8-N9-C4	-5.17	104.33	106.40
1	2	1621	G	C4-C5-N7	5.17	112.87	110.80
36	1	17	G	N3-C4-C5	5.17	131.18	128.60
36	1	56	G	OP2-P-O3'	5.17	116.56	105.20
36	1	1522	U	N1-C2-O2	-5.17	119.19	122.80
36	1	2414	G	C5-C6-N1	-5.17	108.92	111.50
36	1	2507	C	N3-C2-O2	-5.17	118.28	121.90
36	1	2575	G	N1-C2-N3	-5.17	120.80	123.90
80	6	287	G	C5-C6-O6	-5.17	125.50	128.60
80	6	950	C	OP1-P-OP2	5.17	127.35	119.60
85	5	192	C	C4-C5-C6	5.17	119.98	117.40
85	5	334	A	C5-C6-N1	5.17	120.28	117.70
85	5	589	A	C5-N7-C8	-5.17	101.32	103.90
85	5	1746	U	N3-C4-C5	-5.17	111.50	114.60
85	5	2365	C	C2-N3-C4	-5.17	117.32	119.90
85	5	2703	A	N1-C6-N6	5.17	121.70	118.60
1	2	52	U	C6-N1-C2	5.16	124.10	121.00
1	2	1009	A	N1-C6-N6	-5.16	115.50	118.60
1	2	1274	G	N3-C2-N2	-5.16	116.28	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1115	G	N3-C4-C5	5.16	131.18	128.60
36	1	1452	A	O4'-C1'-N9	-5.16	104.07	108.20
36	1	2142	A	C5-N7-C8	5.16	106.48	103.90
36	1	2223	A	C5-N7-C8	-5.16	101.32	103.90
36	1	2242	A	N3-C4-C5	-5.16	123.19	126.80
36	1	2367	A	OP1-P-O3'	5.16	116.56	105.20
36	1	2861	U	C4-C5-C6	5.16	122.80	119.70
36	1	2913	C	N1-C2-O2	5.16	122.00	118.90
36	1	2918	G	C6-C5-N7	-5.16	127.30	130.40
36	1	3130	A	C5-N7-C8	-5.16	101.32	103.90
36	1	3332	U	N3-C2-O2	5.16	125.81	122.20
38	4	46	G	N7-C8-N9	-5.16	110.52	113.10
38	4	71	A	N1-C2-N3	5.16	131.88	129.30
80	6	50	C	N1-C2-N3	5.16	122.81	119.20
80	6	91	G	C2-N3-C4	-5.16	109.32	111.90
80	6	312	A	OP1-P-OP2	5.16	127.35	119.60
80	6	412	A	N3-C4-C5	-5.16	123.19	126.80
80	6	1310	U	N1-C2-O2	5.16	126.41	122.80
85	5	359	U	C2-N1-C1'	5.16	123.90	117.70
85	5	512	U	C5-C6-N1	-5.16	120.12	122.70
85	5	560	G	C6-C5-N7	-5.16	127.30	130.40
85	5	598	A	N1-C2-N3	-5.16	126.72	129.30
85	5	847	A	C4-C5-C6	5.16	119.58	117.00
85	5	908	G	C6-N1-C2	-5.16	122.00	125.10
85	5	1127	G	OP1-P-OP2	5.16	127.34	119.60
85	5	1294	A	C6-C5-N7	-5.16	128.69	132.30
85	5	1382	G	N9-C4-C5	-5.16	103.33	105.40
85	5	1466	G	C2-N3-C4	-5.16	109.32	111.90
85	5	1565	G	C4-C5-N7	5.16	112.86	110.80
85	5	1583	A	C4-C5-C6	5.16	119.58	117.00
85	5	1831	U	C2-N3-C4	5.16	130.10	127.00
85	5	1833	G	OP1-P-OP2	5.16	127.35	119.60
85	5	2130	G	N1-C2-N3	5.16	127.00	123.90
85	5	2135	U	O3'-P-O5'	-5.16	94.19	104.00
85	5	2328	U	OP1-P-OP2	-5.16	111.85	119.60
85	5	3143	C	N1-C2-N3	5.16	122.81	119.20
37	7	7	G	C5-C6-O6	5.16	131.70	128.60
1	2	676	U	C6-N1-C2	-5.16	117.90	121.00
36	1	997	A	N7-C8-N9	5.16	116.38	113.80
36	1	1046	A	C6-N1-C2	-5.16	115.50	118.60
36	1	1948	G	C5-C6-O6	-5.16	125.50	128.60
36	1	2215	A	O5'-P-OP1	5.16	116.89	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2247	G	N3-C4-C5	5.16	131.18	128.60
36	1	3082	C	N3-C2-O2	5.16	125.51	121.90
38	4	43	A	O5'-P-OP2	-5.16	101.05	105.70
85	5	712	G	OP1-P-OP2	-5.16	111.86	119.60
85	5	1137	C	C6-N1-C1'	-5.16	114.61	120.80
85	5	1619	A	C5-N7-C8	-5.16	101.32	103.90
85	5	2523	A	C4-C5-N7	-5.16	108.12	110.70
85	5	3208	G	C5-C6-O6	5.16	131.70	128.60
85	5	3327	G	O5'-P-OP2	5.16	116.89	110.70
85	5	3390	G	C5-N7-C8	-5.16	101.72	104.30
1	2	401	A	C6-N1-C2	-5.16	115.50	118.60
1	2	1441	G	OP1-P-O3'	5.16	116.55	105.20
36	1	349	A	N1-C2-N3	-5.16	126.72	129.30
36	1	1165	A	C6-C5-N7	-5.16	128.69	132.30
36	1	1363	A	C6-N1-C2	-5.16	115.50	118.60
36	1	1459	C	N3-C4-N4	5.16	121.61	118.00
36	1	1659	U	N1-C2-N3	5.16	118.00	114.90
36	1	1812	G	N3-C4-C5	-5.16	126.02	128.60
36	1	2107	A	C4-C5-C6	5.16	119.58	117.00
36	1	2409	G	OP2-P-O3'	5.16	116.55	105.20
36	1	2411	U	C4-C5-C6	5.16	122.80	119.70
36	1	2427	U	C6-N1-C1'	-5.16	113.97	121.20
36	1	2445	A	C6-C5-N7	5.16	135.91	132.30
36	1	3108	G	N7-C8-N9	-5.16	110.52	113.10
36	1	3268	A	N1-C2-N3	5.16	131.88	129.30
38	4	50	C	C2-N1-C1'	5.16	124.48	118.80
38	4	87	G	C5-C6-N1	5.16	114.08	111.50
80	6	136	C	OP2-P-O3'	5.16	116.55	105.20
80	6	1123	C	C5-C4-N4	-5.16	116.59	120.20
80	6	1601	G	N1-C2-N3	-5.16	120.80	123.90
80	6	1782	A	O5'-P-OP1	-5.16	101.06	105.70
85	5	263	C	N1-C2-O2	5.16	122.00	118.90
85	5	898	U	C5-C4-O4	5.16	129.00	125.90
85	5	1363	A	C4-C5-N7	-5.16	108.12	110.70
85	5	1852	G	C6-C5-N7	-5.16	127.30	130.40
85	5	2614	G	C8-N9-C4	-5.16	104.34	106.40
85	5	2835	U	OP2-P-O3'	5.16	116.55	105.20
85	5	2994	A	C4-C5-C6	5.16	119.58	117.00
85	5	3220	G	C4-C5-N7	-5.16	108.74	110.80
42	15	92	LEU	CB-CG-CD2	-5.16	102.23	111.00
1	2	44	U	N1-C2-O2	5.16	126.41	122.80
1	2	357	G	C5-N7-C8	-5.16	101.72	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	417	A	C5-C6-N6	-5.16	119.57	123.70
36	1	754	G	N3-C4-C5	5.16	131.18	128.60
36	1	1178	G	C4-C5-C6	5.16	121.89	118.80
36	1	1384	U	OP2-P-O3'	5.16	116.55	105.20
36	1	2933	A	O5'-P-OP2	-5.16	101.06	105.70
36	1	3047	U	C4-C5-C6	5.16	122.80	119.70
36	1	3269	U	O5'-P-OP1	5.16	116.89	110.70
37	3	54	U	C5-C6-N1	-5.16	120.12	122.70
38	4	53	A	O5'-P-OP1	5.16	116.89	110.70
38	4	69	U	C4-C5-C6	5.16	122.80	119.70
38	4	99	C	OP1-P-OP2	5.16	127.34	119.60
80	6	399	A	N7-C8-N9	-5.16	111.22	113.80
80	6	623	A	N3-C4-C5	5.16	130.41	126.80
80	6	702	G	N3-C4-N9	5.16	129.10	126.00
85	5	61	A	N3-C4-N9	-5.16	123.27	127.40
85	5	144	A	N7-C8-N9	-5.16	111.22	113.80
85	5	242	C	N3-C4-N4	5.16	121.61	118.00
85	5	646	A	C4-C5-C6	5.16	119.58	117.00
85	5	954	U	C2-N1-C1'	5.16	123.89	117.70
85	5	1437	C	O4'-C1'-N1	-5.16	104.07	108.20
85	5	1639	C	N3-C4-N4	5.16	121.61	118.00
85	5	2347	U	OP1-P-OP2	5.16	127.34	119.60
85	5	2847	A	N1-C2-N3	5.16	131.88	129.30
85	5	2869	U	C6-N1-C2	5.16	124.09	121.00
38	8	48	A	C2-N3-C4	5.16	113.18	110.60
38	8	60	U	OP1-P-OP2	5.16	127.34	119.60
38	8	144	G	C5-C6-O6	-5.16	125.50	128.60
1	2	337	G	C5-C6-O6	-5.16	125.51	128.60
1	2	821	G	N9-C4-C5	-5.16	103.34	105.40
1	2	1526	A	N7-C8-N9	-5.16	111.22	113.80
1	2	1558	G	OP1-P-O3'	5.16	116.55	105.20
1	2	1714	A	OP1-P-O3'	5.16	116.54	105.20
36	1	408	A	C2-N3-C4	5.16	113.18	110.60
36	1	576	C	N1-C2-N3	5.16	122.81	119.20
36	1	940	G	N3-C4-C5	-5.16	126.02	128.60
36	1	1303	A	O5'-P-OP1	-5.16	101.06	105.70
36	1	1319	G	C4-C5-N7	5.16	112.86	110.80
36	1	1340	G	N7-C8-N9	-5.16	110.52	113.10
36	1	1553	U	C2-N3-C4	-5.16	123.91	127.00
36	1	1575	A	N9-C4-C5	5.16	107.86	105.80
80	6	127	G	N3-C2-N2	-5.16	116.29	119.90
85	5	864	G	C5-C6-O6	-5.16	125.51	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1795	U	C5-C6-N1	5.16	125.28	122.70
85	5	2860	U	C6-N1-C2	5.16	124.09	121.00
85	5	3193	C	OP1-P-OP2	-5.16	111.86	119.60
1	2	315	A	C8-N9-C4	5.16	107.86	105.80
1	2	831	C	C6-N1-C2	-5.16	118.24	120.30
1	2	878	G	N7-C8-N9	5.16	115.68	113.10
1	2	1719	G	C5-C6-N1	-5.16	108.92	111.50
36	1	115	A	C2-N3-C4	5.16	113.18	110.60
36	1	580	C	C2-N1-C1'	5.16	124.47	118.80
36	1	1431	G	C8-N9-C4	-5.16	104.34	106.40
36	1	1954	G	N7-C8-N9	-5.16	110.52	113.10
36	1	2320	A	N3-C4-C5	5.16	130.41	126.80
36	1	2651	G	C6-N1-C2	-5.16	122.01	125.10
36	1	2824	G	C8-N9-C4	5.16	108.46	106.40
36	1	3090	U	O5'-P-OP1	5.16	116.89	110.70
36	1	3178	A	C4-C5-N7	5.16	113.28	110.70
36	1	3322	A	C5-C6-N6	-5.16	119.58	123.70
36	1	3380	U	C6-N1-C2	-5.16	117.91	121.00
37	3	7	G	C5-N7-C8	-5.16	101.72	104.30
37	3	55	A	C4-C5-C6	5.16	119.58	117.00
76	Q0	106	ARG	NE-CZ-NH2	-5.16	117.72	120.30
80	6	29	U	C6-N1-C2	-5.16	117.91	121.00
80	6	766	U	C5-C6-N1	5.16	125.28	122.70
80	6	1304	G	C6-C5-N7	5.16	133.49	130.40
80	6	1673	G	O5'-P-OP2	-5.16	101.06	105.70
85	5	229	G	C4-C5-C6	5.16	121.89	118.80
85	5	1059	G	N3-C4-C5	-5.16	126.02	128.60
85	5	1451	C	OP2-P-O3'	-5.16	93.86	105.20
85	5	1772	U	C6-N1-C1'	5.16	128.42	121.20
85	5	2154	U	N3-C4-O4	-5.16	115.79	119.40
85	5	2215	A	O4'-C1'-N9	-5.16	104.08	108.20
85	5	2655	U	OP1-P-OP2	-5.16	111.87	119.60
85	5	3035	A	C5-C6-N6	-5.16	119.58	123.70
85	5	3130	A	C2-N3-C4	5.16	113.18	110.60
85	5	3243	A	O4'-C1'-N9	-5.16	104.08	108.20
38	8	135	G	C5-N7-C8	5.16	106.88	104.30
1	2	63	G	N1-C2-N2	-5.15	111.56	116.20
1	2	517	U	OP1-P-OP2	5.15	127.33	119.60
36	1	26	A	N7-C8-N9	-5.15	111.22	113.80
36	1	364	G	O3'-P-O5'	-5.15	94.21	104.00
36	1	1110	U	OP1-P-OP2	5.15	127.33	119.60
36	1	1615	C	C2-N3-C4	-5.15	117.32	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1679	A	C4-C5-N7	5.15	113.28	110.70
36	1	2244	A	O4'-C1'-N9	-5.15	104.08	108.20
36	1	2756	C	OP1-P-O3'	5.15	116.54	105.20
80	6	814	A	C2-N3-C4	-5.15	108.02	110.60
80	6	1573	A	N1-C6-N6	-5.15	115.51	118.60
2	s0	162	CYS	CA-CB-SG	-5.15	104.72	114.00
85	5	1127	G	N3-C2-N2	5.15	123.51	119.90
85	5	1750	A	C5-C6-N6	-5.15	119.58	123.70
85	5	2886	U	N1-C2-N3	5.15	117.99	114.90
85	5	2972	G	N1-C6-O6	5.15	122.99	119.90
85	5	3222	U	C2-N3-C4	5.15	130.09	127.00
1	2	100	A	OP1-P-OP2	-5.15	111.87	119.60
1	2	1049	C	N1-C2-N3	5.15	122.81	119.20
1	2	1083	G	OP1-P-O3'	5.15	116.53	105.20
1	2	1747	C	C5-C6-N1	-5.15	118.42	121.00
36	1	110	G	N3-C4-N9	-5.15	122.91	126.00
36	1	598	A	C5-C6-N1	5.15	120.28	117.70
36	1	1002	A	O5'-P-OP2	-5.15	101.06	105.70
36	1	1014	U	N1-C2-O2	-5.15	119.19	122.80
36	1	1268	G	N1-C2-N3	-5.15	120.81	123.90
36	1	1919	G	N3-C2-N2	-5.15	116.29	119.90
36	1	2173	U	OP1-P-OP2	-5.15	111.87	119.60
36	1	2829	U	C5-C6-N1	-5.15	120.12	122.70
36	1	2859	U	OP1-P-OP2	5.15	127.33	119.60
36	1	2866	U	N3-C2-O2	-5.15	118.59	122.20
36	1	2905	U	C5-C6-N1	-5.15	120.12	122.70
38	4	54	A	C5-C6-N1	-5.15	115.12	117.70
40	L3	148	LEU	CB-CG-CD1	5.15	119.76	111.00
80	6	677	G	N7-C8-N9	-5.15	110.52	113.10
80	6	1245	G	N1-C2-N2	5.15	120.84	116.20
80	6	1322	A	OP2-P-O3'	5.15	116.53	105.20
85	5	371	G	OP1-P-O3'	5.15	116.53	105.20
85	5	846	A	C5-C6-N1	-5.15	115.12	117.70
85	5	1390	A	C6-C5-N7	5.15	135.91	132.30
85	5	1568	U	N3-C2-O2	5.15	125.81	122.20
85	5	1572	U	C5-C4-O4	5.15	128.99	125.90
85	5	1768	U	C2-N3-C4	-5.15	123.91	127.00
85	5	2115	G	C2-N3-C4	5.15	114.48	111.90
85	5	2685	C	C5-C4-N4	-5.15	116.59	120.20
85	5	3088	G	N9-C4-C5	5.15	107.46	105.40
37	7	21	G	C5-N7-C8	-5.15	101.72	104.30
37	7	30	G	N1-C2-N2	-5.15	111.56	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	47	A	OP1-P-O3'	5.15	116.53	105.20
1	2	256	A	C5-C6-N1	5.15	120.28	117.70
1	2	1227	A	P-O3'-C3'	5.15	125.88	119.70
36	1	921	A	C5-C6-N6	5.15	127.82	123.70
36	1	1127	G	N7-C8-N9	5.15	115.67	113.10
36	1	1161	G	C4-C5-N7	5.15	112.86	110.80
36	1	1297	C	C5-C4-N4	-5.15	116.59	120.20
36	1	1353	U	C4-C5-C6	5.15	122.79	119.70
36	1	1664	G	C6-C5-N7	-5.15	127.31	130.40
36	1	1802	C	N1-C2-O2	-5.15	115.81	118.90
36	1	2445	A	C6-N1-C2	-5.15	115.51	118.60
36	1	3107	U	OP1-P-O3'	5.15	116.53	105.20
36	1	3124	G	OP1-P-O3'	5.15	116.53	105.20
38	4	18	U	C5-C6-N1	5.15	125.28	122.70
80	6	355	G	O5'-P-OP2	-5.15	101.06	105.70
80	6	409	C	O5'-P-OP2	-5.15	101.06	105.70
80	6	413	U	O5'-P-OP2	-5.15	101.06	105.70
80	6	532	U	O4'-C1'-N1	5.15	112.32	108.20
80	6	540	G	OP1-P-OP2	5.15	127.32	119.60
80	6	607	G	C6-N1-C2	-5.15	122.01	125.10
80	6	1264	G	C6-N1-C2	5.15	128.19	125.10
80	6	1302	U	N3-C4-C5	-5.15	111.51	114.60
80	6	1750	A	C5-C6-N6	-5.15	119.58	123.70
85	5	1194	G	OP2-P-O3'	5.15	116.53	105.20
85	5	1366	A	N7-C8-N9	5.15	116.38	113.80
85	5	1418	A	N3-C4-C5	-5.15	123.19	126.80
85	5	1934	G	C5-C6-O6	-5.15	125.51	128.60
85	5	2274	U	C4-C5-C6	5.15	122.79	119.70
41	14	295	ILE	CG1-CB-CG2	-5.15	100.07	111.40
1	2	142	G	N3-C2-N2	-5.15	116.30	119.90
1	2	1067	A	OP1-P-OP2	5.15	127.32	119.60
1	2	1705	A	N1-C2-N3	5.15	131.87	129.30
36	1	1166	G	C6-N1-C2	5.15	128.19	125.10
36	1	1875	G	OP2-P-O3'	5.15	116.53	105.20
36	1	2643	A	C5-C6-N1	5.15	120.27	117.70
36	1	3040	A	C5-C6-N6	5.15	127.82	123.70
36	1	3274	A	C6-N1-C2	-5.15	115.51	118.60
37	3	94	C	C5-C4-N4	-5.15	116.59	120.20
80	6	1170	G	C8-N9-C4	5.15	108.46	106.40
85	5	952	A	C5-C6-N6	5.15	127.82	123.70
85	5	3016	A	C4-C5-N7	5.15	113.27	110.70
85	5	3033	A	C5-C6-N6	-5.15	119.58	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3238	G	N3-C4-N9	-5.15	122.91	126.00
47	m0	82	ARG	NE-CZ-NH2	-5.15	117.73	120.30
1	2	1110	G	N3-C4-C5	-5.15	126.03	128.60
1	2	1116	A	N7-C8-N9	-5.15	111.23	113.80
1	2	1140	A	C8-N9-C4	-5.15	103.74	105.80
1	2	1639	U	C5-C6-N1	5.15	125.27	122.70
1	2	1712	C	N3-C4-C5	-5.15	119.84	121.90
36	1	121	A	C8-N9-C4	5.15	107.86	105.80
36	1	246	U	C5-C4-O4	-5.15	122.81	125.90
36	1	609	G	O4'-C1'-N9	-5.15	104.08	108.20
36	1	624	G	C4-C5-C6	5.15	121.89	118.80
36	1	721	G	N1-C2-N3	5.15	126.99	123.90
36	1	1301	A	N7-C8-N9	5.15	116.37	113.80
36	1	1537	A	N7-C8-N9	5.15	116.37	113.80
36	1	2158	A	C2-N3-C4	-5.15	108.03	110.60
36	1	3219	G	C2-N3-C4	-5.15	109.33	111.90
37	3	93	C	C2-N3-C4	-5.15	117.33	119.90
59	N3	122	CYS	CA-CB-SG	-5.15	104.74	114.00
80	6	171	A	C5-N7-C8	5.15	106.47	103.90
80	6	865	A	N1-C2-N3	5.15	131.87	129.30
85	5	373	A	OP1-P-OP2	5.15	127.32	119.60
85	5	740	G	N1-C6-O6	5.15	122.99	119.90
85	5	944	C	C2-N3-C4	5.15	122.47	119.90
85	5	1148	G	O5'-P-OP1	5.15	116.88	110.70
85	5	1178	G	N9-C4-C5	5.15	107.46	105.40
85	5	1208	U	OP1-P-OP2	5.15	127.32	119.60
85	5	1304	A	C6-N1-C2	-5.15	115.51	118.60
85	5	1403	C	N3-C4-C5	5.15	123.96	121.90
85	5	1539	A	C8-N9-C4	5.15	107.86	105.80
85	5	1690	C	O4'-C1'-N1	5.15	112.32	108.20
85	5	2116	G	C8-N9-C4	-5.15	104.34	106.40
85	5	2285	C	C2-N3-C4	5.15	122.47	119.90
85	5	2634	U	OP1-P-OP2	-5.15	111.88	119.60
85	5	2745	G	N1-C2-N3	5.15	126.99	123.90
36	1	1307	G	N3-C4-C5	-5.15	126.03	128.60
36	1	1323	G	C5-C6-O6	5.15	131.69	128.60
36	1	2642	A	OP2-P-O3'	5.15	116.52	105.20
38	4	100	U	N3-C2-O2	5.15	125.80	122.20
80	6	32	U	N1-C2-O2	-5.15	119.20	122.80
80	6	991	G	C5-C6-N1	5.15	114.07	111.50
80	6	1100	G	N1-C6-O6	5.15	122.99	119.90
85	5	101	G	N7-C8-N9	5.15	115.67	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2728	G	OP1-P-OP2	5.15	127.32	119.60
85	5	3146	G	N9-C4-C5	-5.15	103.34	105.40
85	5	3300	U	N3-C4-O4	5.15	123.00	119.40
85	5	3394	U	N1-C2-N3	5.15	117.99	114.90
37	7	118	A	C6-N1-C2	-5.15	115.51	118.60
1	2	328	A	C6-C5-N7	-5.14	128.70	132.30
1	2	512	A	P-O3'-C3'	5.14	125.87	119.70
1	2	748	G	O4'-C1'-N9	-5.14	104.08	108.20
1	2	914	C	C5-C6-N1	5.14	123.57	121.00
1	2	1053	C	N1-C2-O2	-5.14	115.81	118.90
1	2	1093	G	N7-C8-N9	-5.14	110.53	113.10
1	2	1327	A	C5-C6-N6	-5.14	119.58	123.70
36	1	1313	G	C6-C5-N7	-5.14	127.31	130.40
36	1	1347	U	OP2-P-O3'	5.14	116.52	105.20
36	1	2969	A	C4-C5-N7	5.14	113.27	110.70
36	1	2981	U	OP1-P-OP2	-5.14	111.88	119.60
36	1	2992	U	C6-N1-C2	-5.14	117.91	121.00
36	1	3144	G	N7-C8-N9	5.14	115.67	113.10
36	1	3209	A	P-O3'-C3'	5.14	125.87	119.70
36	1	3296	A	C5-C6-N6	-5.14	119.58	123.70
37	3	71	G	OP2-P-O3'	5.14	116.52	105.20
38	4	147	U	C2-N1-C1'	5.14	123.87	117.70
40	L3	47	LEU	CB-CG-CD2	-5.14	102.26	111.00
41	L4	313	LEU	CB-CG-CD2	-5.14	102.25	111.00
80	6	270	C	N3-C2-O2	5.14	125.50	121.90
80	6	433	C	C2-N3-C4	-5.14	117.33	119.90
80	6	1047	G	C4-C5-C6	-5.14	115.71	118.80
85	5	176	G	C2-N3-C4	-5.14	109.33	111.90
85	5	214	G	N3-C2-N2	5.14	123.50	119.90
85	5	656	A	C4-C5-C6	5.14	119.57	117.00
85	5	734	C	OP2-P-O3'	-5.14	93.88	105.20
85	5	1094	U	C5-C6-N1	5.14	125.27	122.70
85	5	1421	G	C8-N9-C4	5.14	108.46	106.40
85	5	1574	C	N3-C4-N4	-5.14	114.40	118.00
85	5	2345	A	C4-C5-N7	5.14	113.27	110.70
85	5	2395	G	N3-C4-N9	-5.14	122.91	126.00
85	5	3282	U	N3-C4-O4	5.14	123.00	119.40
37	7	112	G	O5'-P-OP2	5.14	116.87	110.70
1	2	49	C	N1-C2-N3	5.14	122.80	119.20
1	2	126	A	C8-N9-C4	-5.14	103.74	105.80
1	2	810	C	C4-C5-C6	-5.14	114.83	117.40
1	2	835	C	C4-C5-C6	-5.14	114.83	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1507	G	C4-C5-N7	5.14	112.86	110.80
36	1	2243	A	OP2-P-O3'	-5.14	93.89	105.20
36	1	2718	U	N1-C2-N3	5.14	117.98	114.90
36	1	2815	G	N1-C6-O6	5.14	122.98	119.90
80	6	417	A	N9-C4-C5	5.14	107.86	105.80
80	6	647	G	C2-N3-C4	-5.14	109.33	111.90
80	6	917	U	OP1-P-OP2	5.14	127.31	119.60
80	6	1119	G	OP1-P-OP2	5.14	127.31	119.60
80	6	1748	G	C2-N3-C4	-5.14	109.33	111.90
85	5	1291	A	O5'-P-OP1	5.14	116.87	110.70
85	5	1307	G	N1-C2-N2	5.14	120.83	116.20
85	5	1408	G	N9-C4-C5	5.14	107.46	105.40
85	5	1578	C	C4-C5-C6	-5.14	114.83	117.40
85	5	1833	G	C6-C5-N7	5.14	133.49	130.40
85	5	2093	A	N7-C8-N9	5.14	116.37	113.80
85	5	2343	C	N3-C2-O2	5.14	125.50	121.90
85	5	2370	G	N9-C4-C5	5.14	107.46	105.40
85	5	2777	G	N7-C8-N9	5.14	115.67	113.10
53	m7	131	ARG	NE-CZ-NH2	-5.14	117.73	120.30
1	2	568	G	OP1-P-OP2	5.14	127.31	119.60
1	2	1638	A	N1-C6-N6	-5.14	115.52	118.60
36	1	423	A	N3-C4-N9	-5.14	123.29	127.40
36	1	926	A	N3-C4-C5	5.14	130.40	126.80
36	1	1331	U	N1-C1'-C2'	5.14	120.68	114.00
36	1	3171	U	OP1-P-O3'	-5.14	93.89	105.20
80	6	931	C	C5-C6-N1	5.14	123.57	121.00
85	5	23	A	C5-N7-C8	-5.14	101.33	103.90
85	5	197	G	C8-N9-C4	-5.14	104.34	106.40
85	5	899	U	C4-C5-C6	5.14	122.78	119.70
85	5	968	G	P-O3'-C3'	-5.14	113.53	119.70
85	5	2935	U	OP1-P-OP2	-5.14	111.89	119.60
37	7	45	A	C5-C6-N6	5.14	127.81	123.70
1	2	186	C	C2-N1-C1'	5.14	124.45	118.80
1	2	476	U	P-O3'-C3'	5.14	125.87	119.70
1	2	610	G	C5-C6-N1	-5.14	108.93	111.50
1	2	792	A	C5-N7-C8	-5.14	101.33	103.90
1	2	833	A	N1-C2-N3	-5.14	126.73	129.30
1	2	863	C	C4-C5-C6	-5.14	114.83	117.40
1	2	1268	U	C2-N3-C4	5.14	130.08	127.00
1	2	1650	A	N7-C8-N9	5.14	116.37	113.80
36	1	5	G	N3-C4-N9	-5.14	122.92	126.00
36	1	88	A	O5'-P-OP2	-5.14	101.07	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	292	U	C4-C5-C6	5.14	122.78	119.70
36	1	727	G	C5-N7-C8	-5.14	101.73	104.30
36	1	1311	G	C6-C5-N7	-5.14	127.32	130.40
36	1	1348	U	N3-C2-O2	5.14	125.80	122.20
36	1	1754	G	N1-C2-N2	5.14	120.83	116.20
36	1	2641	U	C5-C4-O4	-5.14	122.82	125.90
36	1	2735	U	N3-C4-O4	-5.14	115.80	119.40
36	1	2863	G	C8-N9-C4	-5.14	104.34	106.40
36	1	3113	A	N1-C2-N3	5.14	131.87	129.30
36	1	3240	C	N3-C4-C5	-5.14	119.84	121.90
36	1	3361	G	C5-N7-C8	5.14	106.87	104.30
71	O5	23	ASP	CB-CG-OD2	-5.14	113.67	118.30
80	6	712	G	N1-C2-N2	5.14	120.83	116.20
80	6	1755	A	N1-C2-N3	5.14	131.87	129.30
8	s6	77	LEU	CA-CB-CG	-5.14	103.48	115.30
85	5	107	A	OP1-P-OP2	5.14	127.31	119.60
85	5	784	A	N1-C2-N3	5.14	131.87	129.30
85	5	1529	A	N3-C4-C5	5.14	130.40	126.80
85	5	1846	C	C2-N3-C4	-5.14	117.33	119.90
85	5	2249	G	OP1-P-OP2	5.14	127.31	119.60
85	5	2299	A	OP2-P-O3'	5.14	116.51	105.20
85	5	2698	G	N1-C2-N3	5.14	126.98	123.90
85	5	3133	C	O5'-P-OP1	5.14	116.87	110.70
37	7	17	A	O5'-P-OP1	5.14	116.87	110.70
37	7	50	U	C5-C4-O4	5.14	128.98	125.90
37	7	82	G	C5-N7-C8	-5.14	101.73	104.30
1	2	1093	G	C5-C6-N1	5.14	114.07	111.50
36	1	1780	G	C8-N9-C1'	-5.14	120.32	127.00
36	1	1826	C	C4-C5-C6	5.14	119.97	117.40
36	1	1909	A	OP2-P-O3'	5.14	116.50	105.20
36	1	2318	U	N3-C4-C5	-5.14	111.52	114.60
36	1	2420	C	OP1-P-OP2	-5.14	111.89	119.60
36	1	2688	U	OP1-P-O3'	5.14	116.50	105.20
36	1	2690	G	C5-C6-O6	-5.14	125.52	128.60
68	O2	108	ILE	CG1-CB-CG2	-5.14	100.09	111.40
80	6	49	C	N1-C2-O2	-5.14	115.82	118.90
80	6	370	A	C5-C6-N6	5.14	127.81	123.70
80	6	1612	U	N1-C2-N3	-5.14	111.82	114.90
80	6	1690	G	N1-C2-N3	-5.14	120.82	123.90
85	5	760	G	C6-N1-C2	5.14	128.18	125.10
85	5	1380	G	C8-N9-C4	5.14	108.45	106.40
85	5	1613	A	N7-C8-N9	-5.14	111.23	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1913	A	OP1-P-OP2	-5.14	111.89	119.60
85	5	2237	C	C5-C4-N4	-5.14	116.60	120.20
85	5	2588	U	C6-N1-C2	-5.14	117.92	121.00
85	5	2764	C	C5-C6-N1	5.14	123.57	121.00
85	5	2999	U	N1-C2-O2	-5.14	119.20	122.80
1	2	926	C	N3-C4-C5	5.14	123.95	121.90
1	2	1605	G	C5-C6-O6	-5.14	125.52	128.60
36	1	1034	U	C5-C6-N1	5.14	125.27	122.70
36	1	1307	G	C2'-C3'-O3'	5.14	121.92	113.70
36	1	2244	A	C8-N9-C1'	-5.14	118.45	127.70
36	1	3193	C	N1-C2-N3	5.14	122.80	119.20
36	1	3250	U	N1-C2-O2	5.14	126.40	122.80
36	1	3300	U	OP2-P-O3'	5.14	116.50	105.20
38	4	10	A	N9-C4-C5	5.14	107.86	105.80
38	4	104	A	C4-C5-N7	5.14	113.27	110.70
80	6	158	U	C5-C6-N1	5.14	125.27	122.70
80	6	278	U	N3-C4-O4	-5.14	115.81	119.40
80	6	356	G	OP1-P-OP2	-5.14	111.90	119.60
80	6	487	G	C5-N7-C8	5.14	106.87	104.30
80	6	783	G	C2-N3-C4	5.14	114.47	111.90
80	6	796	A	C6-C5-N7	-5.14	128.70	132.30
80	6	950	C	N1-C2-O2	-5.14	115.82	118.90
80	6	1067	C	O5'-P-OP1	-5.14	101.08	105.70
80	6	1380	U	N1-C2-N3	5.14	117.98	114.90
85	5	34	A	C5-C6-N1	5.14	120.27	117.70
85	5	69	C	OP2-P-O3'	5.14	116.50	105.20
85	5	78	U	OP2-P-O3'	5.14	116.50	105.20
85	5	272	G	N3-C4-C5	-5.14	126.03	128.60
85	5	498	A	C6-C5-N7	-5.14	128.70	132.30
85	5	843	A	O5'-P-OP2	5.14	116.86	110.70
85	5	1092	C	C6-N1-C2	5.14	122.36	120.30
85	5	1154	A	C4-C5-N7	-5.14	108.13	110.70
85	5	1208	U	C6-N1-C2	-5.14	117.92	121.00
85	5	1269	U	O4'-C1'-N1	5.14	112.31	108.20
85	5	2725	U	N3-C2-O2	5.14	125.80	122.20
85	5	2936	A	C5-N7-C8	-5.14	101.33	103.90
38	8	86	U	N3-C2-O2	5.14	125.80	122.20
39	12	6	ARG	NE-CZ-NH2	-5.14	117.73	120.30
36	1	57	A	C4-C5-N7	5.13	113.27	110.70
36	1	65	A	C5-N7-C8	-5.13	101.33	103.90
36	1	222	A	C2-N3-C4	-5.13	108.03	110.60
36	1	589	A	O4'-C1'-N9	-5.13	104.09	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	610	G	O5'-P-OP2	-5.13	101.08	105.70
36	1	669	U	C5-C6-N1	-5.13	120.13	122.70
36	1	780	A	C4-C5-C6	5.13	119.57	117.00
36	1	1076	C	C2-N3-C4	-5.13	117.33	119.90
36	1	1561	G	OP1-P-OP2	5.13	127.30	119.60
36	1	2159	U	N3-C2-O2	-5.13	118.61	122.20
36	1	2323	G	N3-C4-N9	5.13	129.08	126.00
36	1	2909	U	OP1-P-OP2	5.13	127.30	119.60
36	1	3150	A	C4-C5-N7	5.13	113.27	110.70
37	3	74	C	C5-C4-N4	-5.13	116.61	120.20
38	4	84	C	C6-N1-C2	5.13	122.35	120.30
44	L7	207	LEU	CB-CG-CD1	-5.13	102.27	111.00
80	6	536	C	C2-N3-C4	5.13	122.47	119.90
80	6	776	G	N1-C2-N3	5.13	126.98	123.90
80	6	1354	G	N3-C4-C5	-5.13	126.03	128.60
85	5	176	G	O5'-P-OP1	5.13	116.86	110.70
85	5	634	C	N3-C4-C5	-5.13	119.85	121.90
85	5	1221	A	C5-N7-C8	5.13	106.47	103.90
85	5	1339	C	C2-N1-C1'	5.13	124.45	118.80
85	5	1600	U	C2-N1-C1'	-5.13	111.54	117.70
85	5	1669	C	N3-C4-C5	5.13	123.95	121.90
85	5	1927	G	C2-N3-C4	-5.13	109.33	111.90
85	5	2098	C	N1-C2-O2	5.13	121.98	118.90
85	5	2357	A	C5-C6-N6	5.13	127.81	123.70
85	5	2867	C	N1-C2-O2	-5.13	115.82	118.90
85	5	2870	C	C4'-C3'-C2'	5.13	107.73	102.60
85	5	3334	U	N3-C4-O4	-5.13	115.81	119.40
38	8	97	A	OP2-P-O3'	5.13	116.50	105.20
38	8	153	U	C5-C4-O4	-5.13	122.82	125.90
1	2	476	U	N1-C2-N3	5.13	117.98	114.90
36	1	326	U	O5'-P-OP2	-5.13	101.08	105.70
36	1	813	G	N7-C8-N9	5.13	115.67	113.10
36	1	1025	A	N1-C6-N6	-5.13	115.52	118.60
36	1	1213	G	N7-C8-N9	-5.13	110.53	113.10
36	1	2909	U	N1-C2-N3	-5.13	111.82	114.90
38	4	74	U	N1-C2-O2	-5.13	119.21	122.80
80	6	71	A	N1-C6-N6	5.13	121.68	118.60
80	6	310	C	OP1-P-O3'	5.13	116.49	105.20
80	6	385	A	N3-C4-C5	-5.13	123.21	126.80
80	6	764	U	N1-C2-O2	5.13	126.39	122.80
85	5	1717	U	C5-C4-O4	-5.13	122.82	125.90
85	5	2972	G	N9-C4-C5	-5.13	103.35	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3267	A	N3-C4-N9	5.13	131.51	127.40
85	5	3339	A	N9-C4-C5	5.13	107.85	105.80
1	2	32	U	O4'-C1'-N1	5.13	112.31	108.20
1	2	45	U	N3-C4-O4	5.13	122.99	119.40
1	2	249	U	OP1-P-O3'	5.13	116.49	105.20
1	2	322	G	N3-C4-C5	-5.13	126.03	128.60
1	2	1244	G	N3-C2-N2	-5.13	116.31	119.90
1	2	1259	U	N3-C2-O2	-5.13	118.61	122.20
1	2	1398	U	N1-C2-O2	-5.13	119.21	122.80
36	1	419	G	C8-N9-C4	5.13	108.45	106.40
36	1	552	G	O5'-P-OP2	5.13	116.86	110.70
36	1	566	G	O4'-C1'-N9	5.13	112.31	108.20
36	1	832	G	C2-N3-C4	5.13	114.47	111.90
36	1	934	G	OP1-P-OP2	5.13	127.30	119.60
36	1	989	A	C2-N3-C4	-5.13	108.03	110.60
36	1	1138	U	C5-C6-N1	-5.13	120.14	122.70
36	1	1194	G	C5-N7-C8	-5.13	101.73	104.30
36	1	1307	G	C5-C6-O6	5.13	131.68	128.60
36	1	1709	C	C5-C6-N1	-5.13	118.43	121.00
36	1	1742	U	C2-N1-C1'	5.13	123.86	117.70
36	1	1808	G	N7-C8-N9	-5.13	110.53	113.10
36	1	2311	G	OP2-P-O3'	5.13	116.49	105.20
36	1	2424	A	N1-C2-N3	-5.13	126.73	129.30
36	1	2797	C	C5-C4-N4	5.13	123.79	120.20
80	6	802	G	C8-N9-C4	-5.13	104.35	106.40
80	6	1134	C	N3-C4-N4	-5.13	114.41	118.00
80	6	1204	A	C2-N3-C4	-5.13	108.03	110.60
85	5	27	C	OP1-P-OP2	5.13	127.30	119.60
85	5	620	U	N1-C2-N3	-5.13	111.82	114.90
85	5	686	G	O4'-C1'-N9	5.13	112.31	108.20
85	5	1320	C	OP1-P-OP2	-5.13	111.90	119.60
85	5	1377	G	O5'-P-OP2	-5.13	101.08	105.70
85	5	2640	A	N1-C2-N3	5.13	131.87	129.30
85	5	2688	U	C5-C4-O4	-5.13	122.82	125.90
85	5	2927	C	N1-C2-O2	-5.13	115.82	118.90
85	5	3072	C	N1-C2-O2	-5.13	115.82	118.90
85	5	3109	G	C4-C5-N7	5.13	112.85	110.80
41	14	178	LEU	CB-CG-CD2	-5.13	102.28	111.00
44	17	108	LEU	CB-CG-CD1	5.13	119.72	111.00
1	2	799	G	N7-C8-N9	5.13	115.67	113.10
36	1	35	A	N1-C2-N3	-5.13	126.73	129.30
36	1	100	A	N1-C2-N3	5.13	131.87	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	814	U	C5-C4-O4	5.13	128.98	125.90
36	1	1697	A	C4-C5-C6	5.13	119.56	117.00
36	1	2620	G	C6-N1-C2	-5.13	122.02	125.10
36	1	2869	U	C2-N3-C4	-5.13	123.92	127.00
37	3	60	G	C2-N3-C4	-5.13	109.33	111.90
80	6	641	G	OP1-P-O3'	5.13	116.49	105.20
80	6	1095	U	C6-N1-C2	-5.13	117.92	121.00
80	6	1457	C	O5'-P-OP1	5.13	116.86	110.70
85	5	708	G	N1-C2-N2	-5.13	111.58	116.20
85	5	2105	G	N3-C4-C5	5.13	131.16	128.60
85	5	3039	C	N3-C2-O2	5.13	125.49	121.90
1	2	23	G	OP1-P-O3'	5.13	116.48	105.20
1	2	293	U	O5'-P-OP2	-5.13	101.08	105.70
1	2	1500	U	N3-C4-O4	5.13	122.99	119.40
36	1	685	G	C5-C6-O6	-5.13	125.52	128.60
36	1	1398	U	OP1-P-OP2	5.13	127.29	119.60
36	1	1727	G	N1-C2-N2	-5.13	111.58	116.20
36	1	2566	C	C5-C4-N4	5.13	123.79	120.20
36	1	2636	A	N1-C2-N3	5.13	131.86	129.30
36	1	2744	U	O5'-P-OP2	-5.13	101.08	105.70
36	1	3113	A	C5-N7-C8	5.13	106.46	103.90
36	1	3126	C	O5'-P-OP1	-5.13	101.08	105.70
80	6	24	U	OP1-P-OP2	-5.13	111.91	119.60
80	6	696	C	O4'-C1'-N1	5.13	112.30	108.20
80	6	1108	G	C4-C5-N7	5.13	112.85	110.80
80	6	1128	C	N3-C4-C5	-5.13	119.85	121.90
80	6	1348	A	N1-C6-N6	5.13	121.68	118.60
85	5	397	A	OP2-P-O3'	5.13	116.48	105.20
85	5	530	G	N9-C4-C5	-5.13	103.35	105.40
85	5	582	G	N3-C2-N2	-5.13	116.31	119.90
85	5	697	A	C5-C6-N1	-5.13	115.14	117.70
85	5	888	A	C4-C5-C6	5.13	119.56	117.00
85	5	953	G	C4-C5-C6	-5.13	115.72	118.80
85	5	972	A	C5-C6-N1	-5.13	115.14	117.70
85	5	3266	G	N3-C2-N2	-5.13	116.31	119.90
85	5	3281	U	O5'-P-OP2	-5.13	101.08	105.70
38	8	75	G	N3-C4-N9	-5.13	122.92	126.00
1	2	216	U	N3-C2-O2	5.13	125.79	122.20
1	2	1598	C	C5-C4-N4	-5.13	116.61	120.20
36	1	133	U	N3-C4-C5	5.13	117.68	114.60
36	1	206	G	N3-C4-C5	-5.13	126.04	128.60
36	1	648	C	C2-N3-C4	-5.13	117.34	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1521	G	O5'-P-OP2	5.13	116.85	110.70
36	1	1546	A	OP1-P-O3'	5.13	116.48	105.20
36	1	2332	A	C8-N9-C4	-5.13	103.75	105.80
36	1	2599	U	OP1-P-O3'	5.13	116.48	105.20
36	1	3213	A	C5-C6-N6	-5.13	119.60	123.70
36	1	3265	C	C6-N1-C2	5.13	122.35	120.30
36	1	3383	G	N1-C6-O6	-5.13	116.83	119.90
80	6	523	G	N7-C8-N9	-5.13	110.54	113.10
80	6	1304	G	N7-C8-N9	-5.13	110.54	113.10
85	5	1530	U	N3-C2-O2	5.13	125.79	122.20
85	5	1635	G	C5-N7-C8	-5.13	101.74	104.30
85	5	1776	G	O5'-P-OP2	5.13	116.85	110.70
85	5	2123	G	N7-C8-N9	-5.13	110.54	113.10
85	5	2136	C	N3-C4-N4	-5.13	114.41	118.00
37	7	22	A	N1-C2-N3	5.13	131.86	129.30
38	8	50	C	C5-C6-N1	-5.13	118.44	121.00
64	n8	131	SER	CA-CB-OG	-5.13	97.36	111.20
1	2	109	G	N1-C2-N3	5.12	126.97	123.90
1	2	1226	G	N3-C4-C5	-5.12	126.04	128.60
36	1	289	A	C8-N9-C4	-5.12	103.75	105.80
36	1	569	A	O5'-P-OP2	5.12	116.85	110.70
36	1	671	U	C2-N1-C1'	-5.12	111.55	117.70
36	1	674	G	O5'-P-OP1	-5.12	101.09	105.70
36	1	1502	C	C6-N1-C2	5.12	122.35	120.30
36	1	2283	G	N3-C4-N9	-5.12	122.92	126.00
40	L3	300	ARG	NE-CZ-NH2	5.12	122.86	120.30
80	6	780	A	N1-C2-N3	5.12	131.86	129.30
80	6	1003	A	O5'-P-OP2	5.12	116.85	110.70
85	5	170	G	C4-N9-C1'	5.12	133.16	126.50
85	5	235	A	N7-C8-N9	-5.12	111.24	113.80
85	5	2647	A	N1-C6-N6	-5.12	115.53	118.60
85	5	3074	G	C4-C5-N7	5.12	112.85	110.80
85	5	3191	G	C6-C5-N7	-5.12	127.33	130.40
1	2	58	U	N1-C2-O2	-5.12	119.21	122.80
1	2	418	G	C5-C6-N1	5.12	114.06	111.50
1	2	1297	U	OP1-P-OP2	5.12	127.29	119.60
1	2	1706	U	OP2-P-O3'	5.12	116.47	105.20
8	S6	137	ARG	NE-CZ-NH2	-5.12	117.74	120.30
36	1	143	G	O5'-P-OP2	-5.12	101.09	105.70
36	1	1221	A	N1-C2-N3	-5.12	126.74	129.30
36	1	1350	A	C8-N9-C4	-5.12	103.75	105.80
36	1	1407	A	OP2-P-O3'	5.12	116.47	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1895	A	C8-N9-C4	-5.12	103.75	105.80
36	1	2959	C	C5-C4-N4	-5.12	116.61	120.20
36	1	3238	G	C4-C5-N7	5.12	112.85	110.80
37	3	105	C	OP2-P-O3'	5.12	116.47	105.20
45	L8	169	LEU	CA-CB-CG	5.12	127.08	115.30
80	6	678	A	C2'-C3'-O3'	5.12	121.90	113.70
80	6	1022	C	O5'-P-OP1	-5.12	101.09	105.70
80	6	1377	U	C5-C6-N1	5.12	125.26	122.70
80	6	1762	A	N1-C6-N6	5.12	121.67	118.60
85	5	294	U	C6-N1-C2	5.12	124.08	121.00
85	5	822	G	OP2-P-O3'	5.12	116.47	105.20
85	5	898	U	C6-N1-C2	5.12	124.08	121.00
85	5	1041	U	O5'-P-OP2	-5.12	101.09	105.70
85	5	1061	A	N1-C2-N3	5.12	131.86	129.30
85	5	1097	G	N1-C6-O6	-5.12	116.83	119.90
85	5	1486	G	C4-C5-C6	5.12	121.88	118.80
85	5	1496	C	N1-C2-N3	-5.12	115.61	119.20
85	5	2324	A	C2-N3-C4	-5.12	108.04	110.60
85	5	2528	G	N7-C8-N9	5.12	115.66	113.10
85	5	2878	G	N3-C2-N2	-5.12	116.31	119.90
85	5	2922	G	C6-C5-N7	-5.12	127.33	130.40
85	5	3384	U	O5'-P-OP2	5.12	116.85	110.70
38	8	102	U	C5-C6-N1	5.12	125.26	122.70
39	12	238	ILE	CG1-CB-CG2	-5.12	100.13	111.40
1	2	281	G	C4-C5-N7	-5.12	108.75	110.80
1	2	577	G	C5-C6-O6	-5.12	125.53	128.60
1	2	1307	G	N9-C4-C5	5.12	107.45	105.40
36	1	345	G	N7-C8-N9	-5.12	110.54	113.10
36	1	530	G	C5-C6-O6	-5.12	125.53	128.60
36	1	799	G	N9-C4-C5	5.12	107.45	105.40
36	1	870	G	C8-N9-C4	-5.12	104.35	106.40
36	1	1830	G	OP1-P-O3'	5.12	116.47	105.20
36	1	2176	U	C5-C6-N1	-5.12	120.14	122.70
36	1	2569	A	C4-C5-C6	-5.12	114.44	117.00
36	1	2739	A	C5-N7-C8	-5.12	101.34	103.90
36	1	3391	A	C4-C5-N7	5.12	113.26	110.70
37	3	85	G	N1-C2-N2	5.12	120.81	116.20
80	6	447	U	C4-C5-C6	5.12	122.77	119.70
80	6	619	A	OP2-P-O3'	5.12	116.47	105.20
80	6	1372	U	N3-C2-O2	-5.12	118.61	122.20
80	6	1430	U	N3-C4-O4	5.12	122.99	119.40
80	6	1601	G	N3-C4-N9	5.12	129.07	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	104	G	C5-C6-N1	-5.12	108.94	111.50
85	5	747	A	OP1-P-OP2	-5.12	111.92	119.60
85	5	862	U	O4'-C1'-N1	-5.12	104.10	108.20
85	5	1093	A	C2-N3-C4	-5.12	108.04	110.60
85	5	1515	A	C6-C5-N7	-5.12	128.72	132.30
85	5	1844	C	C5-C6-N1	-5.12	118.44	121.00
85	5	1868	G	N9-C4-C5	-5.12	103.35	105.40
85	5	1939	G	N3-C4-N9	-5.12	122.93	126.00
85	5	2687	G	C5-C6-N1	5.12	114.06	111.50
85	5	2986	U	OP1-P-O3'	5.12	116.47	105.20
85	5	2988	C	OP1-P-O3'	5.12	116.47	105.20
85	5	3309	G	C4-C5-N7	5.12	112.85	110.80
38	8	40	A	O5'-P-OP1	-5.12	101.09	105.70
38	8	101	U	C5-C4-O4	-5.12	122.83	125.90
39	l2	21	ARG	NE-CZ-NH2	5.12	122.86	120.30
57	n1	11	THR	CA-CB-CG2	-5.12	105.23	112.40
62	n6	75	ARG	NE-CZ-NH2	5.12	122.86	120.30
1	2	1430	C	C6-N1-C2	-5.12	118.25	120.30
36	1	192	C	N1-C2-N3	5.12	122.78	119.20
36	1	213	A	C6-C5-N7	-5.12	128.72	132.30
36	1	1887	A	C5-C6-N1	-5.12	115.14	117.70
36	1	2395	G	C4-C5-N7	5.12	112.85	110.80
38	4	110	C	C2-N1-C1'	-5.12	113.17	118.80
80	6	171	A	O5'-P-OP1	5.12	116.84	110.70
80	6	304	U	OP1-P-OP2	5.12	127.28	119.60
80	6	981	U	N3-C4-C5	-5.12	111.53	114.60
85	5	875	G	C6-C5-N7	5.12	133.47	130.40
85	5	3310	A	C4-C5-C6	5.12	119.56	117.00
68	o2	44	ARG	CG-CD-NE	5.12	122.55	111.80
1	2	607	G	C5-C6-N1	-5.12	108.94	111.50
1	2	818	U	N3-C2-O2	-5.12	118.62	122.20
1	2	894	U	C5-C4-O4	5.12	128.97	125.90
1	2	1225	A	C4-C5-N7	-5.12	108.14	110.70
36	1	151	A	O5'-P-OP1	-5.12	101.09	105.70
36	1	699	A	O5'-P-OP2	5.12	116.84	110.70
36	1	1346	G	OP1-P-O3'	-5.12	93.94	105.20
36	1	1722	U	C4-C5-C6	5.12	122.77	119.70
36	1	1781	C	N1-C2-N3	5.12	122.78	119.20
36	1	1803	C	OP2-P-O3'	5.12	116.46	105.20
36	1	2214	A	P-O3'-C3'	-5.12	113.56	119.70
36	1	2650	U	C4-C5-C6	5.12	122.77	119.70
38	4	61	A	C5-C6-N1	5.12	120.26	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	L5	248	ARG	NE-CZ-NH2	-5.12	117.74	120.30
80	6	18	C	C2-N1-C1'	5.12	124.43	118.80
80	6	573	C	N1-C2-O2	-5.12	115.83	118.90
80	6	623	A	N3-C4-N9	-5.12	123.31	127.40
80	6	1514	U	C5-C4-O4	5.12	128.97	125.90
85	5	42	C	OP1-P-O3'	5.12	116.46	105.20
85	5	335	G	N3-C2-N2	-5.12	116.32	119.90
85	5	1321	G	C4-C5-N7	5.12	112.85	110.80
85	5	1439	U	OP2-P-O3'	5.12	116.46	105.20
85	5	1894	U	N3-C2-O2	5.12	125.78	122.20
85	5	2255	A	C6-N1-C2	-5.12	115.53	118.60
85	5	2378	C	C6-N1-C1'	-5.12	114.66	120.80
85	5	2558	U	N3-C4-O4	5.12	122.98	119.40
85	5	2584	G	OP2-P-O3'	5.12	116.46	105.20
85	5	2889	C	C5-C4-N4	-5.12	116.62	120.20
85	5	3050	U	P-O3'-C3'	-5.12	113.56	119.70
85	5	3152	U	C2-N3-C4	-5.12	123.93	127.00
85	5	3326	G	N9-C4-C5	-5.12	103.35	105.40
38	8	90	U	N1-C2-O2	-5.12	119.22	122.80
1	2	205	U	C5-C6-N1	-5.12	120.14	122.70
36	1	267	G	C4-C5-C6	5.12	121.87	118.80
36	1	554	A	C5-C6-N1	5.12	120.26	117.70
36	1	826	G	C5-N7-C8	-5.12	101.74	104.30
36	1	1412	G	C5-N7-C8	-5.12	101.74	104.30
36	1	1497	C	O5'-P-OP1	-5.12	101.09	105.70
36	1	1591	G	N9-C4-C5	5.12	107.45	105.40
36	1	1822	C	C2-N1-C1'	5.12	124.43	118.80
37	3	1	G	C2-N3-C4	-5.12	109.34	111.90
80	6	458	G	C4-C5-N7	-5.12	108.75	110.80
80	6	994	G	C8-N9-C4	-5.12	104.35	106.40
85	5	376	G	C5-C6-N1	5.12	114.06	111.50
85	5	553	U	O5'-P-OP1	-5.12	101.09	105.70
85	5	1246	G	C4-C5-C6	5.12	121.87	118.80
38	8	36	G	C6-C5-N7	-5.12	127.33	130.40
1	2	272	U	C5-C4-O4	5.12	128.97	125.90
1	2	517	U	N3-C2-O2	-5.12	118.62	122.20
1	2	542	A	C8-N9-C4	-5.12	103.75	105.80
1	2	548	G	C2-N3-C4	5.12	114.46	111.90
36	1	415	G	C2-N3-C4	-5.12	109.34	111.90
36	1	2302	G	N3-C4-N9	5.12	129.07	126.00
36	1	2386	A	N7-C8-N9	5.12	116.36	113.80
36	1	2655	U	C6-N1-C2	-5.12	117.93	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2705	A	OP2-P-O3'	5.12	116.45	105.20
36	1	2915	U	C2-N3-C4	-5.12	123.93	127.00
36	1	3307	A	C4-C5-C6	5.12	119.56	117.00
80	6	142	G	N3-C4-C5	-5.12	126.04	128.60
80	6	584	C	N3-C4-N4	-5.12	114.42	118.00
80	6	745	U	C5-C6-N1	5.12	125.26	122.70
80	6	1699	G	N3-C4-C5	5.12	131.16	128.60
85	5	313	A	C4-C5-C6	5.12	119.56	117.00
85	5	580	C	N1-C2-O2	-5.12	115.83	118.90
85	5	966	U	N1-C2-O2	-5.12	119.22	122.80
85	5	1261	G	OP2-P-O3'	5.12	116.45	105.20
85	5	1478	C	OP1-P-OP2	5.12	127.27	119.60
85	5	1497	C	C2-N1-C1'	5.12	124.43	118.80
85	5	2172	A	OP1-P-O3'	5.12	116.45	105.20
85	5	2182	A	OP1-P-O3'	5.12	116.46	105.20
85	5	2346	C	O5'-P-OP1	-5.12	101.10	105.70
85	5	2953	U	N1-C2-N3	5.12	117.97	114.90
85	5	2993	G	N1-C2-N3	-5.12	120.83	123.90
85	5	3111	U	C2-N1-C1'	-5.12	111.56	117.70
85	5	3124	G	C6-C5-N7	-5.12	127.33	130.40
85	5	3220	G	N9-C4-C5	5.12	107.45	105.40
85	5	3365	U	N3-C2-O2	5.12	125.78	122.20
38	8	146	U	C5-C4-O4	-5.12	122.83	125.90
1	2	310	C	N3-C2-O2	-5.11	118.32	121.90
1	2	711	U	C2-N1-C1'	5.11	123.84	117.70
1	2	871	U	C2-N3-C4	-5.11	123.93	127.00
1	2	1328	A	C8-N9-C4	5.11	107.85	105.80
36	1	54	C	N3-C4-N4	-5.11	114.42	118.00
36	1	65	A	P-O3'-C3'	5.11	125.83	119.70
36	1	214	G	N1-C2-N2	-5.11	111.60	116.20
36	1	244	G	N1-C2-N2	5.11	120.80	116.20
36	1	307	A	N1-C2-N3	5.11	131.86	129.30
36	1	795	G	N9-C4-C5	-5.11	103.35	105.40
36	1	1597	C	O5'-P-OP2	-5.11	101.10	105.70
36	1	1833	G	C4-C5-N7	-5.11	108.75	110.80
36	1	2135	U	C5-C6-N1	5.11	125.26	122.70
36	1	2394	G	N3-C2-N2	-5.11	116.32	119.90
80	6	960	U	OP1-P-O3'	5.11	116.45	105.20
85	5	199	A	C5-C6-N1	-5.11	115.14	117.70
85	5	426	G	OP2-P-O3'	5.11	116.45	105.20
85	5	883	A	C5-N7-C8	-5.11	101.34	103.90
85	5	928	C	C2-N3-C4	5.11	122.46	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1009	A	C6-N1-C2	-5.11	115.53	118.60
85	5	1018	G	N1-C6-O6	-5.11	116.83	119.90
85	5	1389	G	O4'-C1'-N9	-5.11	104.11	108.20
85	5	2388	U	C5-C4-O4	-5.11	122.83	125.90
85	5	2652	U	N1-C2-O2	-5.11	119.22	122.80
85	5	3001	C	C5-C6-N1	-5.11	118.44	121.00
85	5	3016	A	OP1-P-O3'	-5.11	93.95	105.20
38	8	10	A	C4-C5-N7	5.11	113.26	110.70
38	8	26	U	C5-C6-N1	5.11	125.26	122.70
1	2	342	C	N3-C4-N4	5.11	121.58	118.00
1	2	409	C	N3-C4-C5	5.11	123.94	121.90
1	2	515	A	C5-C6-N1	5.11	120.26	117.70
1	2	589	C	N3-C2-O2	5.11	125.48	121.90
1	2	1252	U	C5-C6-N1	5.11	125.26	122.70
1	2	1604	U	C5-C6-N1	5.11	125.26	122.70
36	1	1421	G	C8-N9-C4	5.11	108.44	106.40
36	1	1837	U	C5-C6-N1	5.11	125.26	122.70
36	1	2284	C	N1-C2-N3	5.11	122.78	119.20
36	1	3031	G	N1-C2-N2	5.11	120.80	116.20
37	3	109	G	OP1-P-OP2	-5.11	111.93	119.60
85	5	983	A	N7-C8-N9	5.11	116.36	113.80
85	5	1319	G	N3-C2-N2	-5.11	116.32	119.90
85	5	1339	C	N1-C2-O2	-5.11	115.83	118.90
85	5	2629	U	OP2-P-O3'	5.11	116.45	105.20
85	5	3006	A	C4-C5-C6	5.11	119.56	117.00
85	5	3375	A	C6-N1-C2	-5.11	115.53	118.60
63	n7	42	LEU	CB-CG-CD2	-5.11	102.31	111.00
1	2	405	C	O5'-P-OP2	5.11	116.83	110.70
1	2	543	C	P-O3'-C3'	5.11	125.83	119.70
1	2	613	G	O5'-P-OP2	-5.11	101.10	105.70
1	2	1248	G	N1-C2-N2	5.11	120.80	116.20
1	2	1458	A	N1-C6-N6	5.11	121.67	118.60
1	2	1623	C	C2-N3-C4	-5.11	117.34	119.90
36	1	574	U	C5-C4-O4	5.11	128.97	125.90
36	1	701	G	C4-C5-C6	5.11	121.87	118.80
36	1	760	G	OP2-P-O3'	5.11	116.44	105.20
36	1	872	U	C5-C4-O4	5.11	128.97	125.90
36	1	992	A	N1-C6-N6	-5.11	115.53	118.60
36	1	2551	U	O4'-C1'-N1	5.11	112.29	108.20
36	1	2851	A	C5-N7-C8	5.11	106.45	103.90
36	1	3030	G	N1-C2-N3	5.11	126.97	123.90
36	1	3156	U	C5-C6-N1	-5.11	120.14	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	3373	U	OP2-P-O3'	5.11	116.44	105.20
80	6	456	A	C4-C5-C6	5.11	119.56	117.00
80	6	948	G	C4-C5-N7	5.11	112.84	110.80
80	6	954	G	N3-C2-N2	-5.11	116.32	119.90
80	6	1213	G	N3-C4-N9	5.11	129.07	126.00
80	6	1465	C	C6-N1-C2	-5.11	118.25	120.30
85	5	1927	G	C5-N7-C8	-5.11	101.75	104.30
85	5	2271	A	C2-N3-C4	5.11	113.16	110.60
85	5	2431	C	C5-C6-N1	5.11	123.56	121.00
85	5	2560	C	C5-C4-N4	-5.11	116.62	120.20
85	5	2727	A	C5-C6-N6	5.11	127.79	123.70
85	5	2945	G	O5'-P-OP1	-5.11	101.10	105.70
85	5	3340	G	N3-C2-N2	5.11	123.48	119.90
1	2	196	G	O5'-P-OP2	-5.11	101.10	105.70
1	2	888	A	N7-C8-N9	5.11	116.36	113.80
36	1	788	C	C4-C5-C6	-5.11	114.85	117.40
36	1	876	A	C4-C5-N7	5.11	113.25	110.70
36	1	905	U	N3-C4-C5	-5.11	111.53	114.60
36	1	2300	G	N1-C2-N3	5.11	126.97	123.90
36	1	2320	A	C5-N7-C8	-5.11	101.35	103.90
36	1	2426	U	C4-C5-C6	-5.11	116.64	119.70
36	1	2907	G	C4-C5-C6	5.11	121.87	118.80
36	1	3025	C	C4-C5-C6	5.11	119.95	117.40
80	6	154	G	N3-C2-N2	5.11	123.48	119.90
80	6	193	U	N3-C2-O2	-5.11	118.62	122.20
85	5	618	C	C2-N3-C4	-5.11	117.34	119.90
85	5	1558	A	C5-C6-N1	5.11	120.25	117.70
85	5	1653	G	C8-N9-C4	5.11	108.44	106.40
85	5	2426	U	C6-N1-C2	-5.11	117.93	121.00
85	5	2602	G	N9-C4-C5	5.11	107.44	105.40
85	5	2781	U	C6-N1-C2	5.11	124.06	121.00
85	5	2805	G	N1-C2-N2	-5.11	111.60	116.20
1	2	370	A	N9-C4-C5	5.11	107.84	105.80
1	2	472	U	C6-N1-C2	-5.11	117.94	121.00
1	2	1134	A	O5'-P-OP2	-5.11	101.10	105.70
1	2	1427	A	N1-C6-N6	5.11	121.66	118.60
1	2	1485	G	C6-N1-C2	-5.11	122.04	125.10
1	2	1487	G	C5-C6-N1	5.11	114.05	111.50
1	2	1571	G	N1-C2-N3	5.11	126.96	123.90
25	D3	33	LEU	CA-CB-CG	-5.11	103.55	115.30
36	1	569	A	N3-C4-C5	5.11	130.38	126.80
36	1	884	A	N1-C2-N3	5.11	131.85	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1389	G	N7-C8-N9	5.11	115.65	113.10
36	1	1530	U	C5-C6-N1	-5.11	120.15	122.70
36	1	1798	A	C2-N3-C4	-5.11	108.05	110.60
36	1	1889	G	N9-C4-C5	-5.11	103.36	105.40
36	1	2336	U	C4-C5-C6	-5.11	116.64	119.70
36	1	2412	G	C5-C6-O6	5.11	131.66	128.60
36	1	2624	G	N9-C4-C5	-5.11	103.36	105.40
36	1	2963	C	OP1-P-OP2	5.11	127.26	119.60
36	1	2997	G	C4-C5-N7	5.11	112.84	110.80
36	1	3044	G	N3-C2-N2	-5.11	116.33	119.90
80	6	246	G	C8-N9-C4	5.11	108.44	106.40
80	6	996	U	C5-C4-O4	5.11	128.97	125.90
80	6	1066	C	OP1-P-OP2	5.11	127.26	119.60
80	6	1144	U	OP1-P-OP2	-5.11	111.94	119.60
80	6	1701	A	C5-C6-N6	-5.11	119.61	123.70
85	5	154	U	N1-C2-O2	-5.11	119.22	122.80
85	5	303	G	N3-C4-C5	-5.11	126.05	128.60
85	5	326	U	N3-C2-O2	5.11	125.78	122.20
85	5	1674	G	N1-C2-N2	-5.11	111.60	116.20
85	5	1861	G	O5'-P-OP1	-5.11	101.10	105.70
85	5	2354	C	N3-C4-N4	5.11	121.58	118.00
85	5	2714	G	N3-C2-N2	-5.11	116.33	119.90
85	5	2737	C	C5-C4-N4	5.11	123.78	120.20
85	5	2827	U	O5'-P-OP2	-5.11	101.10	105.70
85	5	3130	A	C4-N9-C1'	5.11	135.49	126.30
85	5	3290	G	C2-N3-C4	5.11	114.45	111.90
39	12	33	ASP	CB-CG-OD1	5.11	122.90	118.30
1	2	942	U	N3-C4-O4	-5.11	115.83	119.40
1	2	1016	C	N3-C4-N4	-5.11	114.43	118.00
1	2	1142	C	C6-N1-C2	5.11	122.34	120.30
1	2	1485	G	N3-C4-C5	-5.11	126.05	128.60
36	1	373	A	OP2-P-O3'	5.11	116.43	105.20
36	1	654	C	OP2-P-O3'	5.11	116.43	105.20
36	1	810	A	N1-C6-N6	-5.11	115.54	118.60
36	1	1183	C	C6-N1-C2	5.11	122.34	120.30
36	1	1366	A	C8-N9-C4	-5.11	103.76	105.80
36	1	1879	A	C5-N7-C8	5.11	106.45	103.90
36	1	2281	A	O4'-C1'-N9	5.11	112.28	108.20
36	1	2395	G	C6-C5-N7	-5.11	127.34	130.40
37	3	37	G	C6-C5-N7	-5.11	127.34	130.40
54	M8	185	LYS	CD-CE-NZ	-5.11	99.96	111.70
62	N6	36	SER	CB-CA-C	-5.11	100.40	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	983	A	N9-C4-C5	5.11	107.84	105.80
80	6	1139	A	C8-N9-C4	5.11	107.84	105.80
80	6	1547	A	C4-C5-N7	5.11	113.25	110.70
85	5	225	C	N1-C2-O2	5.11	121.96	118.90
85	5	240	U	N1-C2-N3	-5.11	111.84	114.90
85	5	336	A	O4'-C1'-N9	-5.11	104.11	108.20
85	5	376	G	OP2-P-O3'	-5.11	93.97	105.20
85	5	553	U	N3-C4-C5	-5.11	111.54	114.60
85	5	684	G	C4-C5-C6	5.11	121.86	118.80
85	5	1543	G	C6-C5-N7	-5.11	127.34	130.40
85	5	1842	A	C2-N3-C4	-5.11	108.05	110.60
85	5	2185	G	C5-C6-O6	5.11	131.66	128.60
85	5	2513	U	OP1-P-O3'	5.11	116.43	105.20
85	5	2521	U	N3-C4-C5	-5.11	111.54	114.60
85	5	2604	U	O5'-P-OP1	5.11	116.83	110.70
85	5	2875	U	O5'-P-OP2	5.11	116.83	110.70
85	5	3020	U	N1-C2-N3	5.11	117.96	114.90
58	n2	90	ARG	NE-CZ-NH2	-5.11	117.75	120.30
62	n6	16	ARG	NE-CZ-NH2	5.11	122.85	120.30
36	1	1059	G	N1-C6-O6	5.10	122.96	119.90
36	1	2409	G	C4-N9-C1'	5.10	133.14	126.50
80	6	233	C	N3-C4-C5	-5.10	119.86	121.90
80	6	1177	C	N1-C2-N3	-5.10	115.63	119.20
85	5	3	U	C5-C6-N1	-5.10	120.15	122.70
85	5	516	A	O5'-P-OP1	5.10	116.83	110.70
85	5	2289	U	OP1-P-O3'	5.10	116.43	105.20
85	5	3267	A	C4-C5-N7	-5.10	108.15	110.70
1	2	110	U	N1-C2-N3	5.10	117.96	114.90
1	2	198	A	C6-N1-C2	5.10	121.66	118.60
1	2	296	U	C4-C5-C6	5.10	122.76	119.70
1	2	1479	U	OP1-P-O3'	5.10	116.42	105.20
1	2	1653	G	C6-C5-N7	-5.10	127.34	130.40
36	1	191	U	C5-C4-O4	5.10	128.96	125.90
36	1	395	A	C5-C6-N6	5.10	127.78	123.70
36	1	788	C	N3-C4-C5	5.10	123.94	121.90
36	1	793	C	OP1-P-OP2	-5.10	111.94	119.60
36	1	1003	A	C6-N1-C2	5.10	121.66	118.60
36	1	1064	A	C4-C5-C6	-5.10	114.45	117.00
36	1	1070	U	N3-C4-O4	-5.10	115.83	119.40
36	1	1639	C	N3-C2-O2	5.10	125.47	121.90
36	1	2163	C	N3-C2-O2	-5.10	118.33	121.90
36	1	2695	A	C5-C6-N1	5.10	120.25	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2823	G	C6-N1-C2	5.10	128.16	125.10
36	1	3359	A	C6-N1-C2	5.10	121.66	118.60
69	O3	9	VAL	CG1-CB-CG2	-5.10	102.74	110.90
80	6	28	A	N9-C4-C5	5.10	107.84	105.80
80	6	419	G	N1-C2-N2	-5.10	111.61	116.20
80	6	426	G	N9-C4-C5	5.10	107.44	105.40
80	6	927	C	C2-N1-C1'	5.10	124.41	118.80
80	6	1512	G	C4-C5-N7	-5.10	108.76	110.80
85	5	140	C	N1-C2-O2	-5.10	115.84	118.90
85	5	584	G	C4-N9-C1'	5.10	133.13	126.50
85	5	951	A	N1-C2-N3	5.10	131.85	129.30
85	5	997	A	C6-C5-N7	-5.10	128.73	132.30
85	5	1529	A	OP2-P-O3'	5.10	116.42	105.20
85	5	1937	U	C6-N1-C2	5.10	124.06	121.00
85	5	2395	G	C2-N3-C4	-5.10	109.35	111.90
85	5	2535	A	C4-C5-C6	-5.10	114.45	117.00
85	5	2687	G	N1-C2-N2	-5.10	111.61	116.20
85	5	2938	G	C2-N3-C4	5.10	114.45	111.90
37	7	119	U	C2-N1-C1'	-5.10	111.58	117.70
1	2	180	A	C2-N3-C4	5.10	113.15	110.60
1	2	596	C	N3-C2-O2	5.10	125.47	121.90
1	2	1638	A	N9-C4-C5	5.10	107.84	105.80
36	1	769	G	C4-N9-C1'	5.10	133.13	126.50
36	1	943	U	C4-C5-C6	5.10	122.76	119.70
36	1	1028	U	N3-C4-C5	-5.10	111.54	114.60
36	1	2095	G	N1-C2-N3	-5.10	120.84	123.90
36	1	2116	G	C5-C6-N1	-5.10	108.95	111.50
36	1	2434	U	O5'-P-OP1	5.10	116.82	110.70
36	1	2613	U	N3-C4-O4	5.10	122.97	119.40
36	1	3215	A	C5-C6-N1	5.10	120.25	117.70
80	6	39	A	N1-C2-N3	5.10	131.85	129.30
80	6	1688	U	N3-C2-O2	-5.10	118.63	122.20
85	5	677	A	N7-C8-N9	5.10	116.35	113.80
85	5	803	C	C4-C5-C6	-5.10	114.85	117.40
85	5	828	A	N7-C8-N9	5.10	116.35	113.80
85	5	1046	A	OP1-P-O3'	5.10	116.42	105.20
85	5	1649	U	N3-C4-C5	-5.10	111.54	114.60
85	5	2202	C	N3-C4-C5	-5.10	119.86	121.90
1	2	6	G	N3-C4-C5	-5.10	126.05	128.60
1	2	105	A	C4-C5-N7	-5.10	108.15	110.70
1	2	347	G	O5'-P-OP1	5.10	116.82	110.70
1	2	588	U	C2-N3-C4	5.10	130.06	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	830	A	N9-C4-C5	-5.10	103.76	105.80
1	2	966	A	C4-C5-N7	-5.10	108.15	110.70
1	2	1317	U	N3-C4-O4	5.10	122.97	119.40
1	2	1799	C	C6-N1-C2	-5.10	118.26	120.30
36	1	289	A	C6-N1-C2	-5.10	115.54	118.60
36	1	923	C	C2-N3-C4	5.10	122.45	119.90
36	1	1165	A	C8-N9-C4	5.10	107.84	105.80
36	1	1633	C	C2-N1-C1'	5.10	124.41	118.80
36	1	1809	A	O4'-C1'-N9	-5.10	104.12	108.20
36	1	1932	A	N9-C4-C5	5.10	107.84	105.80
36	1	2848	G	P-O3'-C3'	5.10	125.82	119.70
36	1	3014	U	C5-C6-N1	-5.10	120.15	122.70
36	1	3240	C	C5-C6-N1	5.10	123.55	121.00
37	3	96	U	N1-C2-N3	5.10	117.96	114.90
39	L2	242	ARG	NE-CZ-NH2	-5.10	117.75	120.30
65	N9	23	LYS	CD-CE-NZ	5.10	123.43	111.70
80	6	225	A	N1-C2-N3	-5.10	126.75	129.30
80	6	443	C	N3-C4-N4	5.10	121.57	118.00
80	6	1209	C	C4-C5-C6	-5.10	114.85	117.40
80	6	1251	U	C5-C6-N1	5.10	125.25	122.70
80	6	1438	G	O5'-P-OP1	5.10	116.82	110.70
85	5	74	G	C6-N1-C2	5.10	128.16	125.10
85	5	904	A	OP2-P-O3'	5.10	116.42	105.20
85	5	1558	A	O5'-P-OP1	5.10	116.82	110.70
85	5	2127	U	O5'-P-OP1	-5.10	101.11	105.70
85	5	2160	G	C4-C5-N7	-5.10	108.76	110.80
85	5	2433	U	N1-C2-N3	-5.10	111.84	114.90
85	5	2440	G	N7-C8-N9	5.10	115.65	113.10
37	7	78	U	C2-N1-C1'	5.10	123.82	117.70
1	2	152	U	N1-C2-N3	5.10	117.96	114.90
1	2	316	A	N1-C2-N3	-5.10	126.75	129.30
1	2	900	U	C5-C4-O4	5.10	128.96	125.90
1	2	1331	A	C2-N3-C4	-5.10	108.05	110.60
1	2	1707	U	C5-C6-N1	5.10	125.25	122.70
1	2	1711	A	OP1-P-O3'	5.10	116.41	105.20
36	1	394	G	C2-N3-C4	-5.10	109.35	111.90
36	1	415	G	C8-N9-C4	-5.10	104.36	106.40
36	1	589	A	C5-C6-N1	5.10	120.25	117.70
36	1	698	U	OP1-P-OP2	-5.10	111.95	119.60
36	1	754	G	OP2-P-O3'	5.10	116.42	105.20
36	1	1109	U	C4-C5-C6	5.10	122.76	119.70
36	1	1449	A	C6-C5-N7	5.10	135.87	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1733	G	N3-C4-C5	-5.10	126.05	128.60
36	1	1802	C	C4-C5-C6	-5.10	114.85	117.40
36	1	2522	G	OP1-P-OP2	5.10	127.25	119.60
36	1	2907	G	N7-C8-N9	5.10	115.65	113.10
36	1	3057	U	C6-N1-C2	-5.10	117.94	121.00
36	1	3316	A	N3-C4-C5	5.10	130.37	126.80
36	1	3393	U	N1-C2-O2	-5.10	119.23	122.80
37	3	88	G	C8-N9-C4	5.10	108.44	106.40
62	N6	99	LEU	CB-CG-CD1	-5.10	102.34	111.00
80	6	251	A	C5-N7-C8	5.10	106.45	103.90
80	6	257	A	N9-C4-C5	-5.10	103.76	105.80
80	6	1002	G	N3-C2-N2	-5.10	116.33	119.90
80	6	1598	U	N3-C2-O2	-5.10	118.63	122.20
85	5	229	G	C6-N1-C2	-5.10	122.04	125.10
85	5	945	C	N1-C2-O2	5.10	121.96	118.90
85	5	1213	G	OP2-P-O3'	5.10	116.42	105.20
85	5	1438	U	O5'-P-OP1	5.10	116.82	110.70
85	5	2175	U	P-O3'-C3'	-5.10	113.58	119.70
63	n7	17	ARG	NE-CZ-NH2	-5.10	117.75	120.30
36	1	1362	G	N9-C4-C5	-5.10	103.36	105.40
36	1	1427	U	N1-C2-N3	5.10	117.96	114.90
36	1	3334	U	O5'-P-OP1	-5.10	101.11	105.70
80	6	617	U	OP1-P-O3'	5.10	116.41	105.20
80	6	997	G	C8-N9-C4	-5.10	104.36	106.40
80	6	1545	A	C5-C6-N1	5.10	120.25	117.70
80	6	1546	G	N1-C2-N3	5.10	126.96	123.90
85	5	1038	C	OP1-P-OP2	-5.10	111.96	119.60
85	5	1686	U	C5-C4-O4	5.10	128.96	125.90
85	5	1781	C	N3-C2-O2	5.10	125.47	121.90
85	5	2317	A	C4-C5-N7	-5.10	108.15	110.70
85	5	2372	A	N7-C8-N9	5.10	116.35	113.80
41	14	202	ARG	NE-CZ-NH2	-5.10	117.75	120.30
50	m4	42	LYS	CD-CE-NZ	-5.10	99.98	111.70
1	2	226	A	C6-N1-C2	-5.09	115.54	118.60
1	2	977	G	C2-N3-C4	-5.09	109.35	111.90
1	2	1194	A	C5-N7-C8	-5.09	101.35	103.90
1	2	1565	U	OP1-P-OP2	-5.09	111.96	119.60
1	2	1625	G	N1-C2-N3	5.09	126.96	123.90
36	1	278	U	C5-C6-N1	5.09	125.25	122.70
36	1	429	U	C2-N3-C4	-5.09	123.94	127.00
36	1	632	G	C2-N3-C4	-5.09	109.35	111.90
36	1	652	G	N3-C4-C5	-5.09	126.05	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	800	G	C8-N9-C4	-5.09	104.36	106.40
36	1	1438	U	C4-C5-C6	5.09	122.76	119.70
36	1	1467	A	N9-C4-C5	5.09	107.84	105.80
36	1	1520	G	N3-C4-N9	5.09	129.06	126.00
36	1	1825	G	OP1-P-O3'	5.09	116.41	105.20
36	1	1876	U	N1-C2-N3	5.09	117.96	114.90
36	1	2518	C	O5'-P-OP1	5.09	116.81	110.70
36	1	2524	A	C5-C6-N1	-5.09	115.15	117.70
36	1	2643	A	C5-C6-N6	-5.09	119.62	123.70
36	1	2646	C	N3-C4-N4	5.09	121.57	118.00
36	1	3276	G	C8-N9-C4	5.09	108.44	106.40
36	1	3314	A	OP2-P-O3'	5.09	116.41	105.20
37	3	91	G	C6-C5-N7	-5.09	127.34	130.40
50	M4	117	ARG	NE-CZ-NH1	5.09	122.85	120.30
67	O1	79	ARG	NE-CZ-NH1	5.09	122.85	120.30
80	6	154	G	C8-N9-C4	-5.09	104.36	106.40
80	6	506	A	C5-C6-N1	-5.09	115.15	117.70
80	6	513	U	N3-C2-O2	-5.09	118.63	122.20
80	6	1400	A	O5'-P-OP1	-5.09	101.11	105.70
80	6	1537	C	C5-C4-N4	-5.09	116.63	120.20
85	5	308	A	C6-C5-N7	-5.09	128.73	132.30
85	5	363	G	C8-N9-C4	-5.09	104.36	106.40
85	5	1153	A	C4-C5-C6	5.09	119.55	117.00
85	5	1217	A	N1-C6-N6	-5.09	115.54	118.60
85	5	1369	A	C6-N1-C2	5.09	121.66	118.60
85	5	1774	C	OP1-P-OP2	-5.09	111.96	119.60
85	5	2374	C	N3-C4-N4	5.09	121.57	118.00
85	5	2429	G	C5-N7-C8	5.09	106.85	104.30
85	5	2657	A	C5-C6-N1	-5.09	115.15	117.70
85	5	3351	U	N3-C2-O2	-5.09	118.63	122.20
37	7	1	G	C5-N7-C8	-5.09	101.75	104.30
37	7	38	U	O5'-P-OP2	-5.09	101.11	105.70
37	7	71	G	OP1-P-O3'	-5.09	93.99	105.20
37	7	87	G	C6-C5-N7	-5.09	127.34	130.40
40	13	328	ILE	CG1-CB-CG2	-5.09	100.19	111.40
36	1	729	C	N1-C2-O2	5.09	121.96	118.90
36	1	1069	C	OP1-P-O3'	5.09	116.41	105.20
36	1	1685	C	O5'-P-OP2	5.09	116.81	110.70
36	1	1918	C	N1-C2-N3	5.09	122.77	119.20
36	1	3214	U	OP2-P-O3'	5.09	116.40	105.20
38	4	35	C	N3-C2-O2	5.09	125.47	121.90
80	6	204	G	C6-N1-C2	5.09	128.16	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	313	U	C5-C4-O4	-5.09	122.84	125.90
85	5	1714	A	C2-N3-C4	-5.09	108.05	110.60
85	5	1751	G	OP1-P-OP2	5.09	127.24	119.60
85	5	2142	A	C4-C5-C6	-5.09	114.45	117.00
85	5	2580	A	N1-C2-N3	5.09	131.85	129.30
85	5	3085	G	OP1-P-OP2	5.09	127.24	119.60
37	7	30	G	N3-C4-C5	-5.09	126.05	128.60
1	2	421	A	C5-C6-N1	-5.09	115.16	117.70
1	2	564	G	N9-C4-C5	-5.09	103.36	105.40
1	2	599	A	C5-C6-N6	5.09	127.77	123.70
1	2	623	A	C5-C6-N6	5.09	127.77	123.70
1	2	668	A	C5-N7-C8	5.09	106.45	103.90
1	2	752	A	C6-N1-C2	-5.09	115.55	118.60
1	2	1291	G	C5-C6-N1	-5.09	108.95	111.50
36	1	25	U	N1-C2-N3	5.09	117.95	114.90
36	1	406	G	OP2-P-O3'	5.09	116.40	105.20
36	1	1403	C	OP1-P-OP2	5.09	127.24	119.60
36	1	1764	U	P-O3'-C3'	5.09	125.81	119.70
36	1	2801	A	C6-N1-C2	-5.09	115.55	118.60
37	3	121	U	C2-N1-C1'	-5.09	111.59	117.70
38	4	54	A	N7-C8-N9	5.09	116.34	113.80
80	6	268	C	C2-N3-C4	-5.09	117.35	119.90
80	6	377	G	C4-C5-C6	5.09	121.85	118.80
80	6	1111	G	O4'-C1'-N9	-5.09	104.13	108.20
80	6	1319	A	C8-N9-C4	-5.09	103.76	105.80
80	6	1718	G	OP1-P-O3'	-5.09	94.00	105.20
85	5	533	A	C2-N3-C4	-5.09	108.05	110.60
85	5	1385	C	N3-C4-N4	5.09	121.56	118.00
85	5	2324	A	C5-N7-C8	-5.09	101.35	103.90
85	5	2405	C	N3-C4-N4	-5.09	114.44	118.00
85	5	2800	G	N7-C8-N9	-5.09	110.56	113.10
85	5	2828	G	N7-C8-N9	5.09	115.64	113.10
85	5	2931	C	N1-C1'-C2'	-5.09	106.40	112.00
85	5	2958	A	C4-C5-C6	5.09	119.55	117.00
85	5	2991	A	C8-N9-C4	-5.09	103.76	105.80
85	5	3225	C	N1-C2-N3	-5.09	115.64	119.20
44	17	89	ILE	CG1-CB-CG2	-5.09	100.20	111.40
1	2	187	G	P-O3'-C3'	5.09	125.81	119.70
1	2	392	G	C6-N1-C2	-5.09	122.05	125.10
36	1	374	A	C5-C6-N1	-5.09	115.16	117.70
36	1	406	G	O4'-C1'-N9	5.09	112.27	108.20
36	1	695	C	C6-N1-C1'	-5.09	114.69	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1212	A	O5'-P-OP2	-5.09	101.12	105.70
36	1	1757	A	C2-N3-C4	-5.09	108.06	110.60
36	1	2294	U	N3-C2-O2	5.09	125.76	122.20
36	1	2309	A	OP1-P-OP2	-5.09	111.97	119.60
36	1	3016	A	N1-C2-N3	5.09	131.84	129.30
36	1	3176	G	C5-N7-C8	-5.09	101.75	104.30
37	3	40	C	OP1-P-OP2	-5.09	111.97	119.60
37	3	43	U	C5-C4-O4	5.09	128.95	125.90
80	6	1401	A	N9-C4-C5	5.09	107.84	105.80
80	6	1796	C	C2-N3-C4	5.09	122.44	119.90
85	5	24	G	C8-N9-C4	5.09	108.44	106.40
85	5	789	A	C5-C6-N6	5.09	127.77	123.70
85	5	958	C	C6-N1-C1'	-5.09	114.69	120.80
85	5	1155	C	O5'-P-OP2	-5.09	101.12	105.70
85	5	1208	U	N1-C2-N3	5.09	117.95	114.90
85	5	1405	U	C5-C4-O4	5.09	128.95	125.90
85	5	1578	C	N3-C2-O2	5.09	125.46	121.90
85	5	1589	A	OP2-P-O3'	5.09	116.40	105.20
85	5	1599	G	OP1-P-O3'	5.09	116.40	105.20
85	5	2246	G	N1-C2-N2	5.09	120.78	116.20
37	7	67	G	C8-N9-C4	-5.09	104.36	106.40
36	1	728	G	N3-C2-N2	-5.09	116.34	119.90
36	1	1545	A	C4-C5-N7	-5.09	108.16	110.70
36	1	2635	A	C5-N7-C8	5.09	106.44	103.90
36	1	3217	C	C6-N1-C1'	-5.09	114.69	120.80
80	6	53	G	OP1-P-OP2	5.09	127.23	119.60
80	6	950	C	C5-C6-N1	-5.09	118.46	121.00
85	5	872	U	OP1-P-OP2	-5.09	111.97	119.60
85	5	881	C	N1-C2-N3	5.09	122.76	119.20
85	5	969	C	C5-C6-N1	-5.09	118.46	121.00
85	5	994	G	C5-C6-O6	5.09	131.65	128.60
85	5	1408	G	O3'-P-O5'	-5.09	94.33	104.00
85	5	1827	C	C2-N1-C1'	-5.09	113.20	118.80
85	5	2176	U	C6-N1-C2	-5.09	117.95	121.00
85	5	2272	G	O4'-C1'-N9	5.09	112.27	108.20
85	5	3004	C	C4-C5-C6	-5.09	114.86	117.40
68	o2	18	LYS	CD-CE-NZ	-5.09	100.00	111.70
1	2	122	U	N3-C4-C5	-5.09	111.55	114.60
1	2	485	A	N1-C6-N6	5.09	121.65	118.60
1	2	814	U	C6-N1-C2	-5.09	117.95	121.00
1	2	1262	C	N1-C2-N3	-5.09	115.64	119.20
1	2	1405	A	OP1-P-OP2	5.09	127.23	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	920	A	C2-N3-C4	5.09	113.14	110.60
36	1	936	A	O4'-C1'-N9	5.09	112.27	108.20
36	1	1120	A	N7-C8-N9	-5.09	111.26	113.80
36	1	1142	G	C4-C5-N7	-5.09	108.77	110.80
36	1	2650	U	C5-C6-N1	-5.09	120.16	122.70
36	1	2759	U	O5'-P-OP2	-5.09	101.12	105.70
36	1	3027	A	C4-C5-N7	-5.09	108.16	110.70
36	1	3108	G	O5'-P-OP1	5.09	116.80	110.70
36	1	3320	A	C4-C5-C6	5.09	119.54	117.00
36	1	3371	G	C2-N3-C4	-5.09	109.36	111.90
38	4	48	A	O5'-P-OP2	-5.09	101.12	105.70
80	6	196	G	C4-C5-C6	-5.09	115.75	118.80
80	6	582	U	N3-C4-O4	5.09	122.96	119.40
80	6	1002	G	C6-C5-N7	-5.09	127.35	130.40
80	6	1050	G	OP1-P-OP2	-5.09	111.97	119.60
80	6	1114	G	N9-C4-C5	5.09	107.43	105.40
80	6	1648	A	O5'-P-OP1	-5.09	101.12	105.70
85	5	148	G	OP2-P-O3'	5.09	116.39	105.20
85	5	492	U	C5-C4-O4	-5.09	122.85	125.90
85	5	539	C	C2-N3-C4	5.09	122.44	119.90
85	5	714	G	N3-C4-C5	5.09	131.14	128.60
85	5	846	A	N3-C4-N9	-5.09	123.33	127.40
85	5	920	A	N1-C2-N3	-5.09	126.76	129.30
85	5	1039	U	C5-C4-O4	-5.09	122.85	125.90
85	5	1605	A	N7-C8-N9	-5.09	111.26	113.80
85	5	2529	A	N1-C2-N3	5.09	131.84	129.30
85	5	2953	U	OP1-P-O3'	5.09	116.39	105.20
38	8	23	U	OP1-P-O3'	5.09	116.39	105.20
38	8	122	U	C5-C4-O4	-5.09	122.85	125.90
38	8	130	C	C2-N3-C4	-5.09	117.36	119.90
44	17	161	VAL	CA-CB-CG1	-5.09	103.27	110.90
1	2	371	G	C4-C5-N7	-5.08	108.77	110.80
1	2	1254	G	O5'-P-OP1	5.08	116.80	110.70
36	1	1013	G	C6-N1-C2	5.08	128.15	125.10
36	1	1092	C	N3-C4-N4	5.08	121.56	118.00
36	1	1608	C	N1-C2-O2	-5.08	115.85	118.90
36	1	1621	A	O5'-P-OP2	-5.08	101.12	105.70
36	1	2597	U	C6-N1-C2	-5.08	117.95	121.00
36	1	2682	C	C5-C4-N4	5.08	123.76	120.20
36	1	2864	A	C5-C6-N6	5.08	127.77	123.70
50	M4	55	ARG	NE-CZ-NH2	-5.08	117.76	120.30
80	6	265	A	C5-N7-C8	-5.08	101.36	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1007	C	O5'-P-OP2	5.08	116.80	110.70
80	6	1114	G	C8-N9-C4	-5.08	104.37	106.40
85	5	2271	A	C4-C5-N7	-5.08	108.16	110.70
85	5	2422	C	C4-C5-C6	5.08	119.94	117.40
85	5	2714	G	C6-N1-C2	-5.08	122.05	125.10
85	5	2935	U	C6-N1-C2	-5.08	117.95	121.00
85	5	3032	A	C6-C5-N7	-5.08	128.74	132.30
1	2	1198	C	N1-C2-N3	5.08	122.76	119.20
1	2	1369	G	N7-C8-N9	-5.08	110.56	113.10
36	1	187	A	N1-C6-N6	5.08	121.65	118.60
36	1	237	G	C5-C6-O6	-5.08	125.55	128.60
36	1	351	A	OP1-P-OP2	5.08	127.23	119.60
36	1	859	G	N1-C2-N3	5.08	126.95	123.90
36	1	1189	C	O5'-P-OP2	-5.08	101.12	105.70
36	1	1417	G	C4-N9-C1'	-5.08	119.89	126.50
36	1	1868	G	OP1-P-O3'	5.08	116.38	105.20
36	1	2441	A	C5-C6-N1	-5.08	115.16	117.70
36	1	2859	U	C6-N1-C2	5.08	124.05	121.00
36	1	3188	G	C8-N9-C1'	5.08	133.61	127.00
36	1	3335	A	N1-C6-N6	5.08	121.65	118.60
80	6	958	U	O4'-C1'-N1	5.08	112.27	108.20
80	6	1200	G	C5-N7-C8	-5.08	101.76	104.30
80	6	1264	G	N1-C2-N3	-5.08	120.85	123.90
80	6	1572	G	C4-C5-N7	5.08	112.83	110.80
80	6	1670	G	C8-N9-C1'	-5.08	120.39	127.00
85	5	96	G	N7-C8-N9	5.08	115.64	113.10
85	5	1037	C	C4-C5-C6	5.08	119.94	117.40
85	5	1825	G	O5'-P-OP1	5.08	116.80	110.70
85	5	3091	A	OP1-P-O3'	5.08	116.39	105.20
76	q0	103	LEU	CB-CG-CD2	-5.08	102.36	111.00
1	2	45	U	C4-C5-C6	5.08	122.75	119.70
1	2	76	A	C2-N3-C4	-5.08	108.06	110.60
1	2	114	C	OP1-P-O3'	5.08	116.38	105.20
1	2	408	C	N3-C4-C5	5.08	123.93	121.90
1	2	761	G	N1-C6-O6	5.08	122.95	119.90
1	2	1183	G	N3-C2-N2	-5.08	116.34	119.90
1	2	1728	G	C4-N9-C1'	5.08	133.11	126.50
36	1	579	G	C5-N7-C8	-5.08	101.76	104.30
36	1	1101	G	N3-C4-C5	-5.08	126.06	128.60
36	1	1563	C	N1-C2-O2	5.08	121.95	118.90
36	1	1813	A	C6-N1-C2	-5.08	115.55	118.60
36	1	2192	C	OP1-P-OP2	-5.08	111.98	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2194	G	C8-N9-C4	-5.08	104.37	106.40
36	1	2590	A	C2-N3-C4	5.08	113.14	110.60
38	4	128	U	N1-C2-O2	5.08	126.36	122.80
80	6	119	A	N3-C4-N9	-5.08	123.33	127.40
80	6	124	A	N1-C6-N6	5.08	121.65	118.60
80	6	403	G	OP1-P-OP2	5.08	127.22	119.60
80	6	800	U	N3-C4-C5	-5.08	111.55	114.60
80	6	815	G	C5-N7-C8	-5.08	101.76	104.30
85	5	816	A	O4'-C1'-N9	5.08	112.27	108.20
85	5	984	G	C8-N9-C4	5.08	108.43	106.40
85	5	1301	A	C5-C6-N1	-5.08	115.16	117.70
85	5	2145	A	C8-N9-C4	-5.08	103.77	105.80
85	5	2240	G	N7-C8-N9	-5.08	110.56	113.10
85	5	2985	C	O3'-P-O5'	-5.08	94.34	104.00
85	5	3356	G	C5-N7-C8	5.08	106.84	104.30
38	8	87	G	C5-C6-O6	5.08	131.65	128.60
1	2	257	A	OP1-P-OP2	-5.08	111.98	119.60
1	2	474	A	C5-N7-C8	-5.08	101.36	103.90
1	2	1527	U	OP1-P-O3'	5.08	116.38	105.20
1	2	1542	A	N9-C4-C5	-5.08	103.77	105.80
36	1	1414	G	N1-C2-N3	5.08	126.95	123.90
36	1	2654	C	N3-C4-C5	-5.08	119.87	121.90
36	1	3297	U	C4-C5-C6	5.08	122.75	119.70
80	6	514	G	C8-N9-C4	5.08	108.43	106.40
80	6	561	G	C5-C6-O6	-5.08	125.55	128.60
80	6	1712	A	C5-N7-C8	5.08	106.44	103.90
11	s9	69	ARG	NE-CZ-NH1	5.08	122.84	120.30
85	5	336	A	OP2-P-O3'	5.08	116.38	105.20
85	5	587	U	C4-C5-C6	-5.08	116.65	119.70
85	5	715	A	P-O3'-C3'	5.08	125.80	119.70
85	5	1116	G	N9-C4-C5	5.08	107.43	105.40
85	5	1209	G	C8-N9-C4	5.08	108.43	106.40
85	5	1468	A	OP1-P-OP2	5.08	127.22	119.60
85	5	1584	U	C5-C6-N1	5.08	125.24	122.70
85	5	2553	U	C2-N1-C1'	5.08	123.80	117.70
1	2	20	G	O5'-P-OP1	-5.08	101.13	105.70
1	2	336	G	N1-C6-O6	-5.08	116.85	119.90
1	2	940	G	N1-C2-N2	5.08	120.77	116.20
1	2	1351	G	C8-N9-C4	-5.08	104.37	106.40
1	2	1417	U	C2-N1-C1'	5.08	123.80	117.70
1	2	1538	A	N1-C2-N3	5.08	131.84	129.30
1	2	1634	A	C4-C5-C6	5.08	119.54	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1768	U	OP1-P-O3'	5.08	116.37	105.20
36	1	64	G	N7-C8-N9	5.08	115.64	113.10
36	1	374	A	C6-N1-C2	5.08	121.65	118.60
36	1	395	A	C2-N3-C4	-5.08	108.06	110.60
36	1	570	A	C6-C5-N7	-5.08	128.74	132.30
36	1	806	A	C5-C6-N1	-5.08	115.16	117.70
36	1	864	G	C4-C5-C6	5.08	121.85	118.80
36	1	1434	G	P-O3'-C3'	5.08	125.79	119.70
36	1	2674	A	C5-C6-N1	5.08	120.24	117.70
36	1	2730	G	N3-C4-C5	5.08	131.14	128.60
36	1	3115	C	C5-C6-N1	5.08	123.54	121.00
36	1	3231	U	N3-C4-O4	-5.08	115.85	119.40
37	3	95	A	OP1-P-OP2	-5.08	111.98	119.60
80	6	155	U	C5-C6-N1	-5.08	120.16	122.70
80	6	1103	U	N3-C4-C5	5.08	117.65	114.60
80	6	1399	C	N1-C2-N3	-5.08	115.64	119.20
85	5	87	U	C5-C4-O4	-5.08	122.85	125.90
85	5	854	G	C5-C6-O6	5.08	131.65	128.60
85	5	942	U	P-O3'-C3'	-5.08	113.61	119.70
85	5	971	G	C6-N1-C2	-5.08	122.05	125.10
85	5	1211	U	C6-N1-C2	5.08	124.05	121.00
85	5	1219	C	N1-C2-O2	5.08	121.95	118.90
85	5	1264	G	N7-C8-N9	-5.08	110.56	113.10
85	5	1319	G	OP2-P-O3'	5.08	116.37	105.20
85	5	1505	C	N1-C2-N3	5.08	122.75	119.20
85	5	1604	G	OP1-P-O3'	-5.08	94.03	105.20
85	5	1714	A	C8-N9-C4	-5.08	103.77	105.80
85	5	2757	U	C5-C4-O4	5.08	128.95	125.90
85	5	3180	A	N3-C4-C5	-5.08	123.25	126.80
85	5	3275	U	O4'-C1'-N1	5.08	112.26	108.20
1	2	341	A	N1-C2-N3	5.08	131.84	129.30
36	1	839	C	C6-N1-C1'	5.08	126.89	120.80
36	1	974	G	N3-C4-N9	5.08	129.05	126.00
36	1	2574	G	C4-C5-N7	-5.08	108.77	110.80
38	4	82	U	O5'-P-OP1	5.08	116.79	110.70
80	6	1477	G	N1-C2-N3	5.08	126.95	123.90
80	6	1749	A	C6-C5-N7	-5.08	128.75	132.30
85	5	336	A	C2-N3-C4	5.08	113.14	110.60
85	5	408	A	C6-C5-N7	5.08	135.85	132.30
85	5	2411	U	N3-C4-O4	5.08	122.95	119.40
85	5	2413	A	C5-N7-C8	-5.08	101.36	103.90
85	5	2839	G	N1-C2-N2	5.08	120.77	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2898	G	N1-C2-N2	5.08	120.77	116.20
1	2	58	U	C6-N1-C2	5.08	124.05	121.00
1	2	1396	U	C2-N3-C4	-5.08	123.95	127.00
36	1	681	U	C6-N1-C1'	-5.08	114.09	121.20
36	1	1355	A	C6-C5-N7	5.08	135.85	132.30
36	1	1358	C	C5-C4-N4	5.08	123.75	120.20
36	1	1482	A	C5-C6-N1	5.08	120.24	117.70
36	1	1772	U	C5-C6-N1	-5.08	120.16	122.70
36	1	1774	C	C4-C5-C6	-5.08	114.86	117.40
36	1	1801	U	C2-N1-C1'	5.08	123.79	117.70
36	1	2124	G	C4-C5-N7	5.08	112.83	110.80
36	1	2730	G	OP2-P-O3'	5.08	116.37	105.20
36	1	3100	U	C5-C6-N1	5.08	125.24	122.70
36	1	3201	C	C6-N1-C1'	5.08	126.89	120.80
36	1	3345	G	O5'-P-OP2	5.08	116.79	110.70
38	4	69	U	N3-C2-O2	5.08	125.75	122.20
47	M0	102	MET	CG-SD-CE	5.08	108.32	100.20
80	6	10	G	C5-C6-O6	-5.08	125.56	128.60
80	6	576	G	N1-C2-N2	5.08	120.77	116.20
80	6	756	A	C5-C6-N1	5.08	120.24	117.70
80	6	1074	G	C6-C5-N7	-5.08	127.36	130.40
85	5	1783	U	C5-C6-N1	-5.08	120.16	122.70
85	5	2416	U	C2-N1-C1'	5.08	123.79	117.70
85	5	2568	C	N3-C4-C5	5.08	123.93	121.90
85	5	2590	A	C8-N9-C4	-5.08	103.77	105.80
85	5	2808	A	OP2-P-O3'	5.08	116.37	105.20
85	5	2885	C	OP1-P-OP2	-5.08	111.99	119.60
85	5	2974	U	OP1-P-OP2	-5.08	111.99	119.60
85	5	3325	G	N9-C4-C5	-5.08	103.37	105.40
37	7	60	G	OP1-P-OP2	5.08	127.21	119.60
37	7	62	U	OP1-P-O3'	5.08	116.37	105.20
42	l5	21	ARG	C-N-CA	-5.08	109.01	121.70
48	m1	9	MET	CG-SD-CE	5.08	108.32	100.20
1	2	32	U	N1-C2-N3	5.07	117.94	114.90
1	2	804	U	C4-C5-C6	-5.07	116.66	119.70
1	2	1141	C	N3-C4-C5	-5.07	119.87	121.90
1	2	1224	G	C4-C5-N7	5.07	112.83	110.80
36	1	586	C	N3-C4-N4	5.07	121.55	118.00
36	1	723	U	C4-C5-C6	5.07	122.74	119.70
36	1	926	A	C5-C6-N6	5.07	127.76	123.70
36	1	1098	A	N9-C4-C5	5.07	107.83	105.80
36	1	2130	G	C5-N7-C8	-5.07	101.76	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2925	C	N3-C4-N4	-5.07	114.45	118.00
37	3	88	G	C8-N9-C1'	-5.07	120.40	127.00
43	L6	64	LEU	CA-CB-CG	5.07	126.97	115.30
80	6	25	C	OP2-P-O3'	5.07	116.36	105.20
80	6	304	U	C5-C6-N1	-5.07	120.16	122.70
80	6	587	C	C2-N1-C1'	-5.07	113.22	118.80
80	6	1752	U	C5-C4-O4	5.07	128.94	125.90
10	s8	14	THR	CA-CB-CG2	-5.07	105.30	112.40
85	5	300	G	N9-C4-C5	5.07	107.43	105.40
85	5	324	A	OP1-P-OP2	-5.07	111.99	119.60
85	5	332	C	OP2-P-O3'	5.07	116.36	105.20
85	5	362	U	C5-C6-N1	5.07	125.24	122.70
85	5	536	U	N3-C2-O2	-5.07	118.65	122.20
85	5	1400	G	C6-C5-N7	-5.07	127.36	130.40
85	5	1436	U	N3-C2-O2	-5.07	118.65	122.20
85	5	1540	U	C2-N3-C4	-5.07	123.95	127.00
85	5	1667	A	C2-N3-C4	-5.07	108.06	110.60
85	5	1833	G	C5-C6-N1	5.07	114.04	111.50
85	5	1910	A	OP1-P-O3'	-5.07	94.04	105.20
85	5	2130	G	C5-C6-O6	5.07	131.64	128.60
85	5	2590	A	N3-C4-C5	5.07	130.35	126.80
85	5	2720	G	C8-N9-C4	-5.07	104.37	106.40
85	5	3177	G	C8-N9-C4	5.07	108.43	106.40
1	2	1022	A	N1-C6-N6	-5.07	115.56	118.60
1	2	1535	U	N3-C4-C5	-5.07	111.56	114.60
36	1	388	G	C5-C6-O6	-5.07	125.56	128.60
36	1	846	A	C4-C5-C6	5.07	119.54	117.00
36	1	3000	A	C5-C6-N6	5.07	127.76	123.70
38	4	151	C	C6-N1-C1'	5.07	126.89	120.80
80	6	344	A	C6-N1-C2	5.07	121.64	118.60
85	5	429	U	N1-C2-N3	-5.07	111.86	114.90
85	5	1006	A	C6-N1-C2	-5.07	115.56	118.60
85	5	1121	U	N3-C4-O4	-5.07	115.85	119.40
85	5	1154	A	N9-C4-C5	5.07	107.83	105.80
85	5	1923	C	C6-N1-C2	-5.07	118.27	120.30
85	5	2364	G	C4-C5-N7	5.07	112.83	110.80
85	5	2855	U	C5-C4-O4	-5.07	122.86	125.90
85	5	3217	C	C5-C6-N1	-5.07	118.46	121.00
38	8	104	A	O5'-P-OP2	5.07	116.79	110.70
1	2	632	U	OP2-P-O3'	5.07	116.36	105.20
1	2	888	A	C5-C6-N1	5.07	120.24	117.70
1	2	1060	C	C4-C5-C6	5.07	119.94	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1422	C	C5-C4-N4	5.07	123.75	120.20
1	2	1756	C	N3-C4-N4	5.07	121.55	118.00
36	1	301	G	C4-C5-N7	-5.07	108.77	110.80
36	1	610	G	C8-N9-C4	-5.07	104.37	106.40
36	1	786	A	C4-C5-N7	-5.07	108.17	110.70
36	1	877	C	N1-C2-N3	5.07	122.75	119.20
36	1	959	C	N3-C4-C5	5.07	123.93	121.90
36	1	1213	G	C4-C5-C6	-5.07	115.76	118.80
36	1	1308	A	C6-C5-N7	-5.07	128.75	132.30
36	1	1370	G	OP1-P-O3'	-5.07	94.05	105.20
36	1	1688	U	OP1-P-O3'	5.07	116.36	105.20
36	1	1695	U	C5-C4-O4	5.07	128.94	125.90
36	1	1897	G	OP2-P-O3'	5.07	116.35	105.20
36	1	2880	U	OP1-P-O3'	5.07	116.35	105.20
36	1	3277	U	C6-N1-C1'	-5.07	114.10	121.20
80	6	180	A	N9-C4-C5	-5.07	103.77	105.80
80	6	289	U	N1-C2-O2	-5.07	119.25	122.80
80	6	1539	G	C5-N7-C8	-5.07	101.77	104.30
80	6	1609	U	N1-C2-O2	-5.07	119.25	122.80
85	5	515	C	N1-C2-N3	-5.07	115.65	119.20
85	5	525	C	N1-C2-N3	5.07	122.75	119.20
85	5	1486	G	N9-C4-C5	5.07	107.43	105.40
85	5	1526	U	N3-C4-C5	-5.07	111.56	114.60
85	5	2253	G	C8-N9-C4	-5.07	104.37	106.40
85	5	2793	G	N1-C2-N3	5.07	126.94	123.90
37	7	84	A	O4'-C1'-N9	-5.07	104.14	108.20
38	8	61	A	N1-C2-N3	5.07	131.84	129.30
38	8	95	G	N1-C6-O6	-5.07	116.86	119.90
40	13	7	GLU	CG-CD-OE2	5.07	128.44	118.30
1	2	489	C	C5-C6-N1	5.07	123.53	121.00
1	2	1226	G	N1-C6-O6	-5.07	116.86	119.90
1	2	1642	A	O5'-P-OP1	-5.07	101.14	105.70
36	1	567	G	C4-C5-C6	5.07	121.84	118.80
36	1	724	U	N3-C2-O2	5.07	125.75	122.20
36	1	798	G	C5-N7-C8	-5.07	101.77	104.30
36	1	1523	U	OP1-P-OP2	-5.07	112.00	119.60
36	1	1831	U	N1-C2-O2	-5.07	119.25	122.80
36	1	2838	A	O5'-P-OP2	-5.07	101.14	105.70
37	3	45	A	OP1-P-OP2	5.07	127.20	119.60
80	6	1096	C	C4-C5-C6	-5.07	114.86	117.40
85	5	1430	U	N1-C2-N3	-5.07	111.86	114.90
85	5	2247	G	C4-C5-N7	-5.07	108.77	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2703	A	OP1-P-OP2	5.07	127.20	119.60
85	5	3151	U	O5'-P-OP1	5.07	116.78	110.70
1	2	499	U	C6-N1-C2	5.07	124.04	121.00
1	2	959	G	N1-C2-N3	5.07	126.94	123.90
1	2	1096	A	N1-C6-N6	5.07	121.64	118.60
1	2	1285	U	O5'-P-OP2	5.07	116.78	110.70
1	2	1294	U	N3-C4-O4	-5.07	115.85	119.40
36	1	49	A	N9-C4-C5	-5.07	103.77	105.80
36	1	688	G	N3-C2-N2	-5.07	116.35	119.90
36	1	1544	G	OP2-P-O3'	5.07	116.35	105.20
36	1	1770	G	C4-C5-C6	5.07	121.84	118.80
36	1	2412	G	N9-C4-C5	5.07	107.43	105.40
36	1	2710	C	C5-C4-N4	-5.07	116.65	120.20
38	4	47	C	N1-C2-N3	5.07	122.75	119.20
80	6	65	A	C5-N7-C8	-5.07	101.37	103.90
80	6	360	A	C6-C5-N7	5.07	135.85	132.30
80	6	778	G	N7-C8-N9	-5.07	110.57	113.10
80	6	1661	U	P-O3'-C3'	-5.07	113.62	119.70
85	5	112	U	OP1-P-OP2	5.07	127.20	119.60
85	5	1327	C	C4-C5-C6	-5.07	114.87	117.40
85	5	1896	A	C5-N7-C8	-5.07	101.37	103.90
85	5	2121	G	C8-N9-C1'	-5.07	120.41	127.00
85	5	2330	C	C2-N1-C1'	-5.07	113.23	118.80
85	5	2348	A	OP1-P-O3'	5.07	116.35	105.20
85	5	2414	G	C5-C6-O6	-5.07	125.56	128.60
85	5	2929	C	C4-C5-C6	5.07	119.93	117.40
85	5	3083	G	N3-C4-C5	5.07	131.13	128.60
37	7	23	A	OP1-P-O3'	5.07	116.35	105.20
57	n1	43	LYS	CD-CE-NZ	5.07	123.35	111.70
67	o1	20	LEU	CB-CG-CD2	-5.07	102.39	111.00
1	2	759	G	C5-C6-N1	-5.07	108.97	111.50
1	2	771	A	C5-N7-C8	5.07	106.43	103.90
1	2	862	G	C5-C6-O6	-5.07	125.56	128.60
1	2	881	A	C5-N7-C8	5.07	106.43	103.90
1	2	1498	A	C2-N3-C4	5.07	113.13	110.60
1	2	1724	U	C5-C6-N1	-5.07	120.17	122.70
36	1	421	G	OP1-P-O3'	5.07	116.34	105.20
36	1	815	G	C5-C6-N1	-5.07	108.97	111.50
36	1	867	G	C8-N9-C1'	-5.07	120.42	127.00
36	1	905	U	C6-N1-C2	-5.07	117.96	121.00
36	1	983	A	N1-C6-N6	5.07	121.64	118.60
36	1	1037	C	C5-C6-N1	5.07	123.53	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1063	G	N3-C2-N2	5.07	123.45	119.90
36	1	1595	U	C5-C4-O4	-5.07	122.86	125.90
36	1	1729	A	C4-C5-C6	5.07	119.53	117.00
36	1	2106	A	N7-C8-N9	-5.07	111.27	113.80
36	1	2410	U	C2-N1-C1'	5.07	123.78	117.70
36	1	2554	A	C5-N7-C8	5.07	106.43	103.90
36	1	2649	A	O5'-P-OP1	-5.07	101.14	105.70
36	1	3168	A	C2-N3-C4	-5.07	108.07	110.60
36	1	3271	G	C8-N9-C4	5.07	108.43	106.40
36	1	3391	A	N7-C8-N9	5.07	116.33	113.80
37	3	17	A	O5'-P-OP1	5.07	116.78	110.70
37	3	61	G	C2-N3-C4	-5.07	109.37	111.90
38	4	41	A	N1-C2-N3	5.07	131.83	129.30
80	6	275	C	O5'-P-OP1	5.07	116.78	110.70
80	6	762	A	C8-N9-C4	-5.07	103.77	105.80
80	6	937	C	C4-C5-C6	5.07	119.93	117.40
80	6	1630	U	N3-C4-C5	-5.07	111.56	114.60
85	5	62	A	N3-C4-C5	5.07	130.35	126.80
85	5	280	U	N3-C4-O4	5.07	122.95	119.40
85	5	512	U	N3-C2-O2	-5.07	118.65	122.20
85	5	1265	U	OP1-P-OP2	5.07	127.20	119.60
85	5	1685	C	C6-N1-C2	-5.07	118.27	120.30
85	5	1712	G	C2-N3-C4	-5.07	109.37	111.90
85	5	2850	G	O3'-P-O5'	-5.07	94.37	104.00
85	5	3030	G	C4-C5-N7	-5.07	108.77	110.80
85	5	3304	U	N1-C2-N3	5.07	117.94	114.90
1	2	447	U	N3-C4-C5	-5.06	111.56	114.60
1	2	1175	C	N3-C4-C5	-5.06	119.88	121.90
36	1	786	A	C3'-C2'-C1'	-5.06	97.45	101.50
36	1	907	G	N3-C4-C5	-5.06	126.07	128.60
36	1	1431	G	C4-C5-N7	-5.06	108.77	110.80
36	1	1525	G	N3-C2-N2	-5.06	116.36	119.90
36	1	2672	G	C5-C6-N1	-5.06	108.97	111.50
80	6	326	G	C4-C5-N7	-5.06	108.77	110.80
80	6	618	U	C6-N1-C2	-5.06	117.96	121.00
80	6	1081	A	C5-N7-C8	-5.06	101.37	103.90
80	6	1318	G	N3-C4-N9	-5.06	122.96	126.00
85	5	106	A	O4'-C1'-N9	-5.06	104.15	108.20
85	5	375	A	C8-N9-C4	-5.06	103.77	105.80
85	5	2533	G	N9-C4-C5	-5.06	103.37	105.40
38	8	80	A	N1-C2-N3	-5.06	126.77	129.30
1	2	484	C	N1-C2-O2	5.06	121.94	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	545	A	P-O3'-C3'	5.06	125.78	119.70
1	2	621	A	C5-C6-N6	-5.06	119.65	123.70
1	2	1028	C	C2-N3-C4	-5.06	117.37	119.90
1	2	1612	G	C6-N1-C2	-5.06	122.06	125.10
36	1	184	U	OP1-P-O3'	5.06	116.34	105.20
36	1	335	G	O5'-P-OP1	-5.06	101.14	105.70
36	1	982	C	C2-N1-C1'	-5.06	113.23	118.80
36	1	1101	G	C2-N3-C4	5.06	114.43	111.90
36	1	1172	G	N3-C4-N9	-5.06	122.96	126.00
36	1	1694	U	C6-N1-C1'	-5.06	114.11	121.20
36	1	1893	A	N3-C4-C5	5.06	130.34	126.80
36	1	2170	U	OP1-P-O3'	5.06	116.34	105.20
36	1	2246	G	C6-C5-N7	5.06	133.44	130.40
36	1	2255	A	C6-N1-C2	-5.06	115.56	118.60
36	1	2713	U	C6-N1-C1'	-5.06	114.11	121.20
36	1	2750	U	N1-C2-O2	-5.06	119.26	122.80
36	1	2894	C	N1-C2-N3	5.06	122.74	119.20
36	1	2920	U	C6-N1-C1'	-5.06	114.11	121.20
36	1	2975	U	OP1-P-OP2	5.06	127.19	119.60
80	6	313	U	C5-C6-N1	-5.06	120.17	122.70
80	6	971	A	N9-C4-C5	5.06	107.83	105.80
80	6	1542	G	C2-N3-C4	-5.06	109.37	111.90
10	s8	169	ILE	CG1-CB-CG2	-5.06	100.26	111.40
85	5	285	A	O5'-P-OP2	-5.06	101.14	105.70
85	5	295	A	OP2-P-O3'	5.06	116.34	105.20
85	5	386	A	C4-C5-C6	5.06	119.53	117.00
85	5	438	A	N1-C2-N3	-5.06	126.77	129.30
85	5	710	A	N7-C8-N9	5.06	116.33	113.80
85	5	810	A	N1-C2-N3	5.06	131.83	129.30
85	5	854	G	C5-C6-N1	-5.06	108.97	111.50
85	5	978	G	O5'-P-OP2	-5.06	101.14	105.70
85	5	1003	A	C4-C5-C6	5.06	119.53	117.00
85	5	1248	C	C5-C4-N4	5.06	123.74	120.20
85	5	1605	A	O5'-P-OP1	5.06	116.77	110.70
85	5	2262	A	N7-C8-N9	-5.06	111.27	113.80
85	5	3276	G	C4-C5-C6	-5.06	115.76	118.80
37	7	1	G	N3-C4-N9	5.06	129.04	126.00
1	2	431	C	C6-N1-C1'	5.06	126.87	120.80
1	2	646	C	C6-N1-C2	-5.06	118.28	120.30
1	2	764	U	N1-C2-O2	5.06	126.34	122.80
1	2	1256	G	O5'-P-OP2	5.06	116.77	110.70
1	2	1738	A	N1-C6-N6	5.06	121.64	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	420	G	O4'-C1'-N9	5.06	112.25	108.20
36	1	424	G	C8-N9-C1'	-5.06	120.42	127.00
36	1	783	A	N1-C2-N3	5.06	131.83	129.30
36	1	1297	C	C6-N1-C2	5.06	122.33	120.30
36	1	1354	G	O4'-C1'-N9	-5.06	104.15	108.20
36	1	1479	U	N3-C2-O2	5.06	125.74	122.20
36	1	2145	A	O5'-P-OP1	-5.06	101.14	105.70
36	1	2959	C	C5-C6-N1	5.06	123.53	121.00
71	O5	80	LEU	CB-CG-CD2	-5.06	102.40	111.00
80	6	165	G	C4-C5-C6	5.06	121.84	118.80
80	6	418	G	C5-N7-C8	-5.06	101.77	104.30
80	6	1165	G	N3-C4-C5	5.06	131.13	128.60
80	6	1630	U	O5'-P-OP1	5.06	116.77	110.70
3	s1	217	LEU	CA-CB-CG	5.06	126.94	115.30
85	5	242	C	OP1-P-OP2	-5.06	112.01	119.60
85	5	751	A	C5-C6-N1	-5.06	115.17	117.70
85	5	1195	A	C5-N7-C8	-5.06	101.37	103.90
85	5	1592	G	OP2-P-O3'	5.06	116.33	105.20
85	5	2180	G	N9-C4-C5	-5.06	103.38	105.40
85	5	3264	G	N3-C2-N2	-5.06	116.36	119.90
1	2	6	G	N7-C8-N9	5.06	115.63	113.10
1	2	199	G	N7-C8-N9	-5.06	110.57	113.10
1	2	214	G	C8-N9-C4	-5.06	104.38	106.40
36	1	347	G	C2-N3-C4	-5.06	109.37	111.90
36	1	1164	G	C5-C6-N1	5.06	114.03	111.50
36	1	2128	C	C5-C6-N1	-5.06	118.47	121.00
36	1	2696	A	C5-N7-C8	-5.06	101.37	103.90
36	1	2850	G	C8-N9-C4	5.06	108.42	106.40
36	1	2993	G	N3-C4-N9	5.06	129.04	126.00
36	1	3017	A	N1-C6-N6	-5.06	115.56	118.60
59	N3	136	VAL	CG1-CB-CG2	-5.06	102.80	110.90
80	6	527	A	C6-N1-C2	-5.06	115.56	118.60
80	6	548	G	N7-C8-N9	5.06	115.63	113.10
80	6	996	U	C6-N1-C2	-5.06	117.96	121.00
85	5	423	A	C6-C5-N7	-5.06	128.76	132.30
85	5	1395	G	C4-C5-N7	5.06	112.82	110.80
85	5	2151	C	N3-C2-O2	5.06	125.44	121.90
85	5	2154	U	O5'-P-OP2	-5.06	101.15	105.70
85	5	2610	G	N7-C8-N9	5.06	115.63	113.10
85	5	2960	C	C5-C4-N4	5.06	123.74	120.20
85	5	3112	G	N1-C2-N2	5.06	120.75	116.20
55	m9	128	LYS	CD-CE-NZ	-5.06	100.06	111.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
70	o4	60	ARG	NE-CZ-NH1	-5.06	117.77	120.30
1	2	300	A	C4-C5-N7	-5.06	108.17	110.70
1	2	347	G	C6-N1-C2	5.06	128.13	125.10
1	2	760	C	O5'-P-OP1	5.06	116.77	110.70
1	2	1159	G	C5-C6-N1	-5.06	108.97	111.50
1	2	1191	A	O5'-P-OP2	5.06	116.77	110.70
1	2	1439	C	OP2-P-O3'	5.06	116.32	105.20
36	1	210	U	P-O3'-C3'	5.06	125.77	119.70
36	1	388	G	C2-N3-C4	-5.06	109.37	111.90
36	1	727	G	C8-N9-C1'	-5.06	120.43	127.00
36	1	1103	A	O5'-P-OP1	-5.06	101.15	105.70
36	1	1377	G	C6-C5-N7	-5.06	127.36	130.40
36	1	1439	U	N3-C4-C5	-5.06	111.57	114.60
36	1	1670	C	C6-N1-C2	5.06	122.32	120.30
36	1	2585	G	C5-C6-N1	5.06	114.03	111.50
36	1	2685	C	C4-C5-C6	5.06	119.93	117.40
36	1	2721	A	C5-N7-C8	-5.06	101.37	103.90
36	1	3223	A	O5'-P-OP1	5.06	116.77	110.70
36	1	3368	U	N1-C2-O2	-5.06	119.26	122.80
80	6	406	U	OP1-P-OP2	-5.06	112.01	119.60
80	6	451	A	C6-C5-N7	-5.06	128.76	132.30
80	6	697	C	C5-C6-N1	5.06	123.53	121.00
80	6	1184	A	C5-C6-N6	5.06	127.75	123.70
85	5	378	A	C2-N3-C4	-5.06	108.07	110.60
85	5	584	G	O5'-P-OP2	-5.06	101.15	105.70
85	5	693	A	N3-C4-C5	-5.06	123.26	126.80
85	5	1020	G	C5-N7-C8	-5.06	101.77	104.30
85	5	1196	C	OP2-P-O3'	-5.06	94.07	105.20
85	5	1502	C	C5-C4-N4	5.06	123.74	120.20
85	5	1583	A	C6-N1-C2	-5.06	115.57	118.60
85	5	2621	G	N9-C4-C5	5.06	107.42	105.40
85	5	2904	U	O5'-P-OP2	-5.06	101.15	105.70
1	2	22	A	OP1-P-O3'	5.06	116.32	105.20
1	2	334	G	C5-N7-C8	-5.06	101.77	104.30
1	2	621	A	C5-N7-C8	-5.06	101.37	103.90
36	1	1066	G	N9-C4-C5	5.06	107.42	105.40
36	1	2773	C	C4-C5-C6	5.06	119.93	117.40
36	1	2912	G	N3-C4-N9	5.06	129.03	126.00
49	M3	10	LEU	CB-CG-CD1	-5.06	102.41	111.00
59	N3	15	LEU	CA-CB-CG	-5.06	103.67	115.30
80	6	39	A	N9-C4-C5	5.06	107.82	105.80
80	6	171	A	N7-C8-N9	-5.06	111.27	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1036	A	O5'-P-OP2	-5.06	101.15	105.70
85	5	1088	U	N1-C2-N3	5.06	117.93	114.90
85	5	1479	U	N1-C2-O2	5.06	126.34	122.80
85	5	1715	A	N7-C8-N9	5.06	116.33	113.80
85	5	2216	G	C4-C5-N7	-5.06	108.78	110.80
85	5	2702	A	N3-C4-N9	-5.06	123.36	127.40
85	5	2746	A	N7-C8-N9	5.06	116.33	113.80
85	5	3029	A	C2-N3-C4	-5.06	108.07	110.60
85	5	3208	G	C5-N7-C8	-5.06	101.77	104.30
37	7	34	C	N1-C2-O2	-5.06	115.87	118.90
37	7	47	C	O5'-P-OP2	-5.06	101.15	105.70
1	2	254	A	O5'-P-OP2	-5.05	101.15	105.70
1	2	835	C	N3-C4-C5	5.05	123.92	121.90
1	2	881	A	N1-C6-N6	-5.05	115.57	118.60
1	2	1630	U	N1-C2-O2	-5.05	119.26	122.80
1	2	1642	A	C2-N3-C4	-5.05	108.07	110.60
36	1	1129	A	OP1-P-O3'	5.05	116.32	105.20
36	1	1383	G	C2-N3-C4	-5.05	109.37	111.90
36	1	2222	A	N3-C4-N9	-5.05	123.36	127.40
36	1	2507	C	C5-C6-N1	5.05	123.53	121.00
36	1	2612	U	OP1-P-O3'	5.05	116.32	105.20
36	1	2745	G	N1-C2-N3	5.05	126.93	123.90
36	1	3023	U	C2-N1-C1'	5.05	123.77	117.70
36	1	3089	C	N1-C2-N3	5.05	122.74	119.20
36	1	3160	U	C6-N1-C2	-5.05	117.97	121.00
36	1	3170	A	N1-C2-N3	5.05	131.83	129.30
37	3	62	U	C2-N3-C4	-5.05	123.97	127.00
80	6	980	G	N7-C8-N9	5.05	115.63	113.10
85	5	113	C	N3-C2-O2	5.05	125.44	121.90
85	5	570	A	C2-N3-C4	5.05	113.13	110.60
85	5	728	G	OP1-P-O3'	-5.05	94.08	105.20
85	5	1484	U	N3-C4-O4	5.05	122.94	119.40
85	5	1621	A	C6-N1-C2	5.05	121.63	118.60
85	5	1917	C	N1-C2-O2	-5.05	115.87	118.90
85	5	2117	A	C4-C5-C6	5.05	119.53	117.00
85	5	2870	C	N3-C2-O2	5.05	125.44	121.90
85	5	3024	A	C5-N7-C8	-5.05	101.37	103.90
85	5	3032	A	N1-C2-N3	5.05	131.83	129.30
85	5	3086	A	C8-N9-C4	5.05	107.82	105.80
85	5	3088	G	C5-C6-O6	5.05	131.63	128.60
85	5	3174	A	C5-N7-C8	5.05	106.43	103.90
1	2	1156	C	N3-C4-C5	5.05	123.92	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	96	G	C4-N9-C1'	-5.05	119.93	126.50
36	1	158	G	C6-N1-C2	-5.05	122.07	125.10
36	1	2214	A	C5-N7-C8	-5.05	101.37	103.90
36	1	2753	G	N1-C2-N3	-5.05	120.87	123.90
37	3	83	U	C2-N3-C4	-5.05	123.97	127.00
85	5	364	G	N7-C8-N9	5.05	115.63	113.10
85	5	1514	G	C4-N9-C1'	5.05	133.07	126.50
85	5	1607	U	N3-C2-O2	-5.05	118.66	122.20
85	5	1786	G	C5-N7-C8	-5.05	101.77	104.30
85	5	2115	G	OP1-P-OP2	5.05	127.18	119.60
85	5	2135	U	C6-N1-C2	-5.05	117.97	121.00
38	8	56	G	N3-C4-N9	-5.05	122.97	126.00
1	2	313	U	N1-C2-N3	5.05	117.93	114.90
1	2	469	C	O5'-P-OP2	5.05	116.76	110.70
1	2	895	U	N3-C4-O4	5.05	122.94	119.40
1	2	1110	G	C4-C5-C6	5.05	121.83	118.80
1	2	1487	G	C5-N7-C8	-5.05	101.77	104.30
36	1	725	G	C5-C6-O6	-5.05	125.57	128.60
36	1	1332	A	O5'-P-OP1	-5.05	101.15	105.70
36	1	1335	C	C5-C4-N4	-5.05	116.66	120.20
36	1	1859	A	OP2-P-O3'	5.05	116.31	105.20
36	1	2164	A	N1-C2-N3	5.05	131.82	129.30
36	1	2872	A	C5-N7-C8	-5.05	101.37	103.90
36	1	3108	G	C4-C5-N7	-5.05	108.78	110.80
36	1	3191	G	OP1-P-OP2	-5.05	112.02	119.60
36	1	3376	A	C4-C5-C6	5.05	119.53	117.00
36	1	3376	A	C6-C5-N7	-5.05	128.76	132.30
37	3	115	G	C5-C6-O6	-5.05	125.57	128.60
38	4	93	U	C4-C5-C6	5.05	122.73	119.70
80	6	61	A	N1-C6-N6	-5.05	115.57	118.60
80	6	240	U	OP2-P-O3'	5.05	116.31	105.20
80	6	285	G	C6-C5-N7	-5.05	127.37	130.40
80	6	1351	G	N1-C6-O6	5.05	122.93	119.90
85	5	232	G	N3-C2-N2	5.05	123.44	119.90
85	5	695	C	O5'-P-OP2	5.05	116.76	110.70
85	5	738	A	N7-C8-N9	5.05	116.33	113.80
85	5	975	C	N1-C2-O2	-5.05	115.87	118.90
85	5	1211	U	OP2-P-O3'	5.05	116.31	105.20
85	5	1387	G	C2-N3-C4	-5.05	109.38	111.90
85	5	1835	A	N1-C6-N6	5.05	121.63	118.60
85	5	2198	A	C2-N3-C4	-5.05	108.07	110.60
85	5	2396	G	C4-C5-N7	5.05	112.82	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2425	G	C5-C6-O6	-5.05	125.57	128.60
85	5	2559	U	OP1-P-OP2	5.05	127.18	119.60
85	5	2804	A	C5-C6-N1	5.05	120.23	117.70
85	5	2875	U	C2-N3-C4	5.05	130.03	127.00
85	5	3153	U	C6-N1-C1'	-5.05	114.13	121.20
1	2	438	A	OP1-P-OP2	5.05	127.17	119.60
1	2	917	C	N1-C2-O2	5.05	121.93	118.90
36	1	1344	G	OP1-P-O3'	5.05	116.31	105.20
36	1	1761	C	C6-N1-C2	-5.05	118.28	120.30
36	1	1899	G	N1-C2-N2	-5.05	111.66	116.20
36	1	2679	A	OP2-P-O3'	-5.05	94.09	105.20
36	1	2926	A	C4-C5-C6	5.05	119.52	117.00
36	1	3078	U	C2-N3-C4	5.05	130.03	127.00
80	6	125	U	N3-C4-O4	5.05	122.94	119.40
80	6	588	U	N3-C2-O2	5.05	125.73	122.20
80	6	860	U	N3-C4-C5	5.05	117.63	114.60
80	6	1018	U	C2-N1-C1'	-5.05	111.64	117.70
80	6	1549	C	OP1-P-OP2	-5.05	112.03	119.60
80	6	1615	C	O5'-P-OP1	5.05	116.76	110.70
85	5	83	U	C5-C4-O4	5.05	128.93	125.90
85	5	107	A	C4-C5-N7	5.05	113.22	110.70
85	5	130	A	C2-N3-C4	5.05	113.12	110.60
85	5	394	G	C5-N7-C8	5.05	106.82	104.30
85	5	969	C	N1-C2-N3	5.05	122.73	119.20
85	5	1055	A	C4-C5-C6	5.05	119.53	117.00
85	5	1515	A	C5-C6-N1	5.05	120.22	117.70
85	5	1566	A	O5'-P-OP2	5.05	116.76	110.70
85	5	1614	C	C6-N1-C2	5.05	122.32	120.30
85	5	2841	G	N9-C1'-C2'	-5.05	106.44	112.00
85	5	2861	U	C5-C6-N1	-5.05	120.17	122.70
53	m7	67	ILE	CG1-CB-CG2	-5.05	100.29	111.40
1	2	152	U	N3-C2-O2	-5.05	118.67	122.20
1	2	163	G	O5'-P-OP2	5.05	116.76	110.70
1	2	252	U	OP1-P-O3'	5.05	116.31	105.20
1	2	1062	U	O4'-C1'-N1	5.05	112.24	108.20
1	2	1420	U	N3-C4-O4	5.05	122.93	119.40
1	2	1484	C	N3-C2-O2	5.05	125.43	121.90
36	1	77	A	N1-C6-N6	5.05	121.63	118.60
36	1	827	A	N7-C8-N9	-5.05	111.28	113.80
36	1	2710	C	C4-C5-C6	-5.05	114.88	117.40
36	1	3173	G	O5'-P-OP1	-5.05	101.16	105.70
36	1	3241	G	C5-C6-N1	-5.05	108.98	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
48	M1	94	ARG	NE-CZ-NH1	5.05	122.82	120.30
80	6	574	G	C4-C5-N7	-5.05	108.78	110.80
85	5	819	U	O5'-P-OP1	5.05	116.76	110.70
85	5	1653	G	OP2-P-O3'	5.05	116.31	105.20
85	5	1743	G	C4-C5-C6	5.05	121.83	118.80
85	5	2301	U	C2-N3-C4	-5.05	123.97	127.00
85	5	2429	G	C8-N9-C4	5.05	108.42	106.40
85	5	2866	U	N1-C2-O2	5.05	126.33	122.80
1	2	14	C	C5-C6-N1	5.05	123.52	121.00
1	2	169	A	C5-C6-N6	-5.05	119.66	123.70
1	2	467	G	OP1-P-O3'	5.05	116.30	105.20
1	2	1722	C	N3-C2-O2	-5.05	118.37	121.90
36	1	101	G	O4'-C1'-N9	5.05	112.24	108.20
36	1	687	U	OP2-P-O3'	5.05	116.30	105.20
36	1	976	U	O5'-P-OP1	-5.05	101.16	105.70
36	1	1166	G	OP1-P-OP2	-5.05	112.03	119.60
36	1	1773	C	C6-N1-C2	5.05	122.32	120.30
36	1	1853	U	C6-N1-C2	-5.05	117.97	121.00
36	1	1868	G	N7-C8-N9	5.05	115.62	113.10
36	1	1908	A	C5-C6-N6	5.05	127.74	123.70
36	1	2584	G	N3-C4-C5	5.05	131.12	128.60
36	1	2617	U	C5-C6-N1	-5.05	120.18	122.70
36	1	2838	A	N9-C4-C5	5.05	107.82	105.80
36	1	2865	U	N1-C2-O2	-5.05	119.27	122.80
36	1	2961	G	OP1-P-OP2	-5.05	112.03	119.60
38	4	152	G	C5-N7-C8	5.05	106.82	104.30
74	O8	77	ARG	NE-CZ-NH1	-5.05	117.78	120.30
80	6	35	U	N3-C4-C5	-5.05	111.57	114.60
80	6	832	U	C6-N1-C2	-5.05	117.97	121.00
80	6	1385	G	C4-C5-N7	5.05	112.82	110.80
85	5	58	G	C4-C5-N7	5.05	112.82	110.80
85	5	604	G	C4-C5-C6	5.05	121.83	118.80
85	5	840	C	C4-C5-C6	5.05	119.92	117.40
85	5	1178	G	C5-C6-N1	5.05	114.02	111.50
85	5	1433	A	OP1-P-O3'	5.05	116.30	105.20
85	5	1692	U	C4-C5-C6	-5.05	116.67	119.70
85	5	1704	A	O5'-P-OP1	-5.05	101.16	105.70
85	5	1946	A	C8-N9-C4	-5.05	103.78	105.80
85	5	2257	C	N3-C2-O2	-5.05	118.37	121.90
85	5	2280	A	OP2-P-O3'	5.05	116.30	105.20
85	5	2906	C	C2-N1-C1'	-5.05	113.25	118.80
85	5	2975	U	N3-C4-C5	5.05	117.63	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2993	G	N3-C2-N2	5.05	123.43	119.90
85	5	3062	G	N9-C4-C5	5.05	107.42	105.40
85	5	3371	G	OP2-P-O3'	5.05	116.30	105.20
1	2	144	U	C2-N3-C4	-5.04	123.97	127.00
36	1	633	C	N3-C2-O2	-5.04	118.37	121.90
36	1	2671	A	N9-C4-C5	5.04	107.82	105.80
36	1	3075	G	N3-C4-C5	5.04	131.12	128.60
80	6	450	U	C6-N1-C2	5.04	124.03	121.00
80	6	971	A	N9-C1'-C2'	-5.04	106.45	112.00
80	6	1616	G	N9-C4-C5	5.04	107.42	105.40
85	5	12	A	C5-N7-C8	-5.04	101.38	103.90
85	5	720	A	O5'-P-OP2	5.04	116.75	110.70
85	5	3014	U	N3-C4-C5	5.04	117.63	114.60
1	2	349	U	C2-N3-C4	-5.04	123.97	127.00
1	2	360	A	OP2-P-O3'	5.04	116.30	105.20
1	2	609	U	N3-C2-O2	-5.04	118.67	122.20
1	2	1414	C	N3-C2-O2	5.04	125.43	121.90
36	1	16	A	N3-C4-C5	5.04	130.33	126.80
36	1	365	A	OP1-P-OP2	-5.04	112.03	119.60
36	1	619	A	C4-C5-C6	5.04	119.52	117.00
36	1	791	A	C6-C5-N7	5.04	135.83	132.30
36	1	827	A	C2-N3-C4	-5.04	108.08	110.60
36	1	836	A	O4'-C1'-N9	-5.04	104.17	108.20
36	1	867	G	N1-C6-O6	5.04	122.93	119.90
36	1	1514	G	OP1-P-OP2	5.04	127.16	119.60
36	1	2737	C	O5'-P-OP2	5.04	116.75	110.70
36	1	2816	G	N7-C8-N9	-5.04	110.58	113.10
36	1	2843	U	O5'-P-OP2	5.04	116.75	110.70
36	1	2882	U	C2-N3-C4	5.04	130.03	127.00
36	1	2944	U	C2-N1-C1'	5.04	123.75	117.70
36	1	3093	C	N3-C2-O2	-5.04	118.37	121.90
37	3	84	A	C4-C5-N7	5.04	113.22	110.70
80	6	108	A	O5'-P-OP2	-5.04	101.16	105.70
80	6	164	A	C4-C5-C6	5.04	119.52	117.00
80	6	307	G	C5-N7-C8	5.04	106.82	104.30
8	s6	57	ASP	CB-CG-OD2	5.04	122.84	118.30
85	5	1176	C	N3-C4-N4	5.04	121.53	118.00
85	5	1307	G	N1-C6-O6	5.04	122.93	119.90
85	5	1625	A	N1-C6-N6	5.04	121.63	118.60
85	5	1837	U	C4-C5-C6	5.04	122.73	119.70
85	5	2105	G	C6-C5-N7	-5.04	127.37	130.40
85	5	2728	G	C6-C5-N7	-5.04	127.37	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2911	A	N9-C4-C5	5.04	107.82	105.80
85	5	3338	C	N3-C4-N4	-5.04	114.47	118.00
1	2	341	A	C5-C6-N1	-5.04	115.18	117.70
1	2	635	A	C4-C5-C6	5.04	119.52	117.00
1	2	1285	U	N1-C2-N3	5.04	117.92	114.90
1	2	1562	U	N1-C2-N3	5.04	117.92	114.90
36	1	199	A	N1-C6-N6	-5.04	115.58	118.60
36	1	499	G	C5-C6-N1	-5.04	108.98	111.50
36	1	841	A	O5'-P-OP1	5.04	116.75	110.70
36	1	965	A	C5-C6-N1	5.04	120.22	117.70
36	1	980	A	O5'-P-OP1	-5.04	101.16	105.70
36	1	1401	A	C6-C5-N7	-5.04	128.77	132.30
36	1	1546	A	C5-N7-C8	-5.04	101.38	103.90
36	1	1605	A	C4-C5-C6	5.04	119.52	117.00
36	1	2183	A	C6-N1-C2	-5.04	115.58	118.60
36	1	2644	C	N3-C2-O2	-5.04	118.37	121.90
36	1	2797	C	N1-C2-N3	5.04	122.73	119.20
36	1	2961	G	N3-C4-C5	-5.04	126.08	128.60
36	1	3171	U	N1-C2-N3	-5.04	111.88	114.90
37	3	17	A	C5-C6-N6	-5.04	119.67	123.70
37	3	72	A	OP1-P-O3'	5.04	116.29	105.20
52	M6	19	LEU	CB-CG-CD2	-5.04	102.43	111.00
64	N8	42	ARG	CB-CG-CD	5.04	124.71	111.60
80	6	510	G	C4-C5-N7	5.04	112.82	110.80
80	6	652	G	N1-C2-N3	-5.04	120.88	123.90
80	6	858	G	N3-C2-N2	5.04	123.43	119.90
80	6	887	A	OP1-P-O3'	5.04	116.29	105.20
80	6	1162	C	C6-N1-C2	5.04	122.32	120.30
80	6	1526	A	N1-C2-N3	5.04	131.82	129.30
85	5	179	C	O5'-P-OP1	5.04	116.75	110.70
85	5	836	A	N1-C2-N3	5.04	131.82	129.30
85	5	1053	A	OP2-P-O3'	5.04	116.29	105.20
85	5	1109	U	C4-C5-C6	5.04	122.72	119.70
85	5	1741	A	OP1-P-OP2	5.04	127.16	119.60
85	5	2160	G	C5-N7-C8	5.04	106.82	104.30
85	5	2241	U	O5'-P-OP1	-5.04	101.16	105.70
85	5	2352	A	C4-C5-N7	-5.04	108.18	110.70
85	5	2616	C	C6-N1-C2	-5.04	118.28	120.30
85	5	2734	A	N3-C4-N9	-5.04	123.37	127.40
85	5	2890	A	C4-C5-C6	5.04	119.52	117.00
85	5	2925	C	OP1-P-OP2	-5.04	112.04	119.60
85	5	3193	C	C6-N1-C2	-5.04	118.28	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	7	8	G	C6-N1-C2	-5.04	122.08	125.10
1	2	547	U	C5-C6-N1	-5.04	120.18	122.70
36	1	75	G	C5-N7-C8	-5.04	101.78	104.30
36	1	83	U	O5'-P-OP2	-5.04	101.16	105.70
36	1	826	G	C5-C6-O6	-5.04	125.58	128.60
36	1	1602	A	C2-N3-C4	-5.04	108.08	110.60
36	1	2549	G	OP1-P-OP2	5.04	127.16	119.60
36	1	2677	G	N1-C2-N3	-5.04	120.88	123.90
36	1	3070	A	C5-N7-C8	-5.04	101.38	103.90
37	3	118	A	N1-C2-N3	5.04	131.82	129.30
38	4	27	U	C5-C4-O4	-5.04	122.88	125.90
38	4	44	A	O5'-P-OP1	-5.04	101.16	105.70
38	4	158	U	C6-N1-C2	5.04	124.02	121.00
80	6	802	G	C6-C5-N7	-5.04	127.38	130.40
85	5	191	U	C5-C4-O4	5.04	128.92	125.90
85	5	882	A	N7-C8-N9	5.04	116.32	113.80
85	5	1503	A	C4-C5-N7	5.04	113.22	110.70
85	5	2554	A	C2-N3-C4	-5.04	108.08	110.60
85	5	2607	G	C5-C6-O6	-5.04	125.58	128.60
85	5	2842	U	O5'-P-OP2	-5.04	101.16	105.70
85	5	2919	A	OP1-P-OP2	-5.04	112.04	119.60
37	7	28	C	OP1-P-OP2	5.04	127.16	119.60
57	n1	137	GLU	OE1-CD-OE2	-5.04	117.25	123.30
64	n8	6	THR	CA-CB-CG2	-5.04	105.34	112.40
1	2	54	C	C5-C6-N1	5.04	123.52	121.00
1	2	213	A	C8-N9-C4	-5.04	103.78	105.80
1	2	284	G	N1-C2-N3	5.04	126.92	123.90
1	2	447	U	C5-C4-O4	-5.04	122.88	125.90
1	2	683	C	C5-C6-N1	5.04	123.52	121.00
1	2	954	A	N9-C4-C5	5.04	107.82	105.80
1	2	1334	G	N1-C6-O6	5.04	122.92	119.90
1	2	1345	U	C5-C6-N1	5.04	125.22	122.70
1	2	1528	A	C2-N3-C4	-5.04	108.08	110.60
1	2	1744	U	C5-C4-O4	5.04	128.92	125.90
1	2	1774	A	C5-C6-N1	-5.04	115.18	117.70
36	1	432	G	C6-C5-N7	-5.04	127.38	130.40
36	1	1003	A	C6-C5-N7	-5.04	128.77	132.30
36	1	1536	G	N7-C8-N9	5.04	115.62	113.10
36	1	1622	U	C5-C6-N1	-5.04	120.18	122.70
36	1	1798	A	N7-C8-N9	5.04	116.32	113.80
36	1	1908	A	C2-N3-C4	-5.04	108.08	110.60
36	1	2623	G	C5-C6-N1	-5.04	108.98	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2821	C	C2-N1-C1'	5.04	124.34	118.80
36	1	2961	G	C6-C5-N7	-5.04	127.38	130.40
36	1	3170	A	C5-N7-C8	-5.04	101.38	103.90
36	1	3310	A	N1-C2-N3	5.04	131.82	129.30
80	6	45	U	OP1-P-OP2	-5.04	112.04	119.60
80	6	1111	G	C5-N7-C8	5.04	106.82	104.30
80	6	1578	U	C2-N3-C4	-5.04	123.98	127.00
80	6	1751	C	O5'-P-OP1	5.04	116.75	110.70
85	5	280	U	C6-N1-C2	-5.04	117.98	121.00
85	5	357	A	N7-C8-N9	-5.04	111.28	113.80
85	5	1127	G	N9-C4-C5	5.04	107.42	105.40
85	5	1277	C	OP1-P-OP2	-5.04	112.04	119.60
85	5	1616	U	C5-C6-N1	-5.04	120.18	122.70
85	5	2987	A	C5-C6-N6	5.04	127.73	123.70
85	5	3104	U	C5-C6-N1	-5.04	120.18	122.70
38	8	93	U	C2-N3-C4	-5.04	123.98	127.00
42	15	131	LEU	CA-CB-CG	5.04	126.89	115.30
46	19	42	ASP	CB-CG-OD2	5.04	122.83	118.30
1	2	14	C	C5-C4-N4	5.04	123.73	120.20
1	2	83	G	N3-C4-N9	5.04	129.02	126.00
1	2	231	U	C2-N3-C4	5.04	130.02	127.00
1	2	651	G	N9-C4-C5	5.04	107.42	105.40
1	2	1311	G	C6-N1-C2	5.04	128.12	125.10
36	1	1555	U	N3-C2-O2	5.04	125.73	122.20
36	1	1690	C	N3-C4-N4	-5.04	114.47	118.00
36	1	2677	G	C2-N3-C4	5.04	114.42	111.90
37	3	34	C	OP1-P-OP2	5.04	127.16	119.60
37	3	116	C	C5-C6-N1	5.04	123.52	121.00
80	6	89	G	C5-C6-N1	-5.04	108.98	111.50
80	6	163	G	C8-N9-C1'	5.04	133.55	127.00
80	6	281	G	N9-C4-C5	-5.04	103.39	105.40
80	6	386	G	O5'-P-OP2	-5.04	101.17	105.70
80	6	866	G	C5-C6-N1	-5.04	108.98	111.50
24	d2	55	ASP	CB-CG-OD2	5.04	122.83	118.30
85	5	753	C	OP1-P-O3'	5.04	116.28	105.20
85	5	1278	A	C8-N9-C4	5.04	107.81	105.80
85	5	1797	A	N9-C4-C5	-5.04	103.78	105.80
85	5	1856	C	C4-C5-C6	-5.04	114.88	117.40
85	5	3364	C	N3-C4-C5	5.04	123.92	121.90
1	2	59	C	OP1-P-O3'	5.04	116.28	105.20
1	2	254	A	N1-C2-N3	-5.04	126.78	129.30
1	2	1523	G	N1-C6-O6	5.04	122.92	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1755	C	N3-C4-N4	-5.04	114.47	118.00
36	1	12	A	N7-C8-N9	-5.04	111.28	113.80
36	1	77	A	C6-C5-N7	-5.04	128.78	132.30
36	1	321	C	OP1-P-OP2	5.04	127.15	119.60
36	1	758	C	N3-C4-N4	5.04	121.53	118.00
36	1	1218	U	N3-C2-O2	5.04	125.72	122.20
36	1	1555	U	C2-N1-C1'	-5.04	111.66	117.70
36	1	2125	A	O5'-P-OP1	5.04	116.74	110.70
36	1	2521	U	C4-C5-C6	-5.04	116.68	119.70
36	1	2788	C	C2-N1-C1'	-5.04	113.26	118.80
36	1	2816	G	C4-C5-N7	-5.04	108.79	110.80
36	1	3085	G	C5-C6-N1	-5.04	108.98	111.50
38	4	41	A	N7-C8-N9	-5.04	111.28	113.80
80	6	355	G	C5-C6-N1	5.04	114.02	111.50
80	6	408	C	O5'-P-OP1	5.04	116.74	110.70
80	6	533	U	N1-C2-O2	5.04	126.33	122.80
80	6	887	A	O5'-P-OP1	-5.04	101.17	105.70
85	5	624	G	N3-C4-C5	5.04	131.12	128.60
37	7	74	C	C6-N1-C2	5.04	122.31	120.30
1	2	56	U	C2-N1-C1'	5.03	123.74	117.70
1	2	304	U	N3-C4-O4	5.03	122.92	119.40
1	2	498	G	C4-C5-N7	-5.03	108.79	110.80
1	2	1569	A	N7-C8-N9	-5.03	111.28	113.80
36	1	767	U	N3-C4-O4	5.03	122.92	119.40
36	1	1172	G	O5'-P-OP1	-5.03	101.17	105.70
36	1	1316	C	OP1-P-O3'	5.03	116.27	105.20
36	1	1471	U	N1-C2-N3	5.03	117.92	114.90
36	1	1537	A	C8-N9-C4	-5.03	103.79	105.80
36	1	1892	G	C6-N1-C2	-5.03	122.08	125.10
36	1	2350	C	C6-N1-C2	5.03	122.31	120.30
36	1	2799	A	OP2-P-O3'	5.03	116.28	105.20
36	1	3062	G	C4-C5-C6	5.03	121.82	118.80
36	1	3229	G	O5'-P-OP2	5.03	116.74	110.70
36	1	3366	G	C4-C5-N7	-5.03	108.79	110.80
51	M5	44	ARG	NE-CZ-NH2	-5.03	117.78	120.30
80	6	423	G	C5-C6-O6	-5.03	125.58	128.60
80	6	1732	A	C6-C5-N7	-5.03	128.78	132.30
85	5	351	A	OP1-P-OP2	5.03	127.15	119.60
85	5	382	U	O5'-P-OP2	-5.03	101.17	105.70
85	5	1112	A	N9-C4-C5	5.03	107.81	105.80
85	5	1287	A	OP2-P-O3'	5.03	116.28	105.20
85	5	1757	A	C5-N7-C8	5.03	106.42	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	2666	C	C2-N3-C4	-5.03	117.38	119.90
85	5	2702	A	N7-C8-N9	5.03	116.32	113.80
85	5	2868	U	C5-C4-O4	-5.03	122.88	125.90
85	5	3051	U	C5-C6-N1	5.03	125.22	122.70
85	5	3234	A	N1-C6-N6	-5.03	115.58	118.60
1	2	556	A	N9-C4-C5	5.03	107.81	105.80
1	2	1188	C	C6-N1-C2	-5.03	118.29	120.30
36	1	51	A	N1-C6-N6	-5.03	115.58	118.60
36	1	70	A	O4'-C1'-N9	-5.03	104.17	108.20
36	1	381	U	N3-C4-O4	5.03	122.92	119.40
36	1	1387	G	C2-N3-C4	5.03	114.42	111.90
36	1	2941	A	C5-C6-N1	-5.03	115.18	117.70
36	1	3006	A	N9-C4-C5	5.03	107.81	105.80
36	1	3089	C	O5'-P-OP2	-5.03	101.17	105.70
36	1	3252	G	OP1-P-O3'	5.03	116.27	105.20
38	4	107	G	O5'-P-OP2	5.03	116.74	110.70
80	6	584	C	C2-N3-C4	-5.03	117.38	119.90
80	6	1777	G	OP1-P-OP2	-5.03	112.05	119.60
85	5	423	A	C8-N9-C4	5.03	107.81	105.80
85	5	816	A	C4-C5-C6	-5.03	114.48	117.00
85	5	909	G	C8-N9-C1'	-5.03	120.46	127.00
85	5	1810	A	N7-C8-N9	-5.03	111.28	113.80
85	5	2237	C	C6-N1-C2	5.03	122.31	120.30
85	5	2674	A	C6-N1-C2	-5.03	115.58	118.60
85	5	2912	G	N3-C2-N2	-5.03	116.38	119.90
85	5	2963	C	C4-C5-C6	5.03	119.92	117.40
85	5	2964	G	C8-N9-C1'	5.03	133.54	127.00
85	5	3173	G	N3-C4-C5	-5.03	126.08	128.60
85	5	3314	A	C8-N9-C4	-5.03	103.79	105.80
1	2	571	G	N3-C2-N2	5.03	123.42	119.90
1	2	844	U	N1-C2-O2	5.03	126.32	122.80
1	2	1460	G	N1-C6-O6	5.03	122.92	119.90
36	1	265	A	C6-N1-C2	5.03	121.62	118.60
36	1	616	G	C6-C5-N7	-5.03	127.38	130.40
36	1	716	A	C4-C5-N7	5.03	113.22	110.70
36	1	1333	C	N1-C2-O2	5.03	121.92	118.90
36	1	1386	A	N7-C8-N9	5.03	116.31	113.80
36	1	1836	C	C2-N3-C4	5.03	122.42	119.90
36	1	1889	G	N1-C6-O6	5.03	122.92	119.90
36	1	2372	A	C5-N7-C8	5.03	106.42	103.90
36	1	2763	U	C6-N1-C1'	-5.03	114.16	121.20
36	1	3062	G	N3-C2-N2	-5.03	116.38	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	M0	10	ARG	NE-CZ-NH2	-5.03	117.78	120.30
80	6	558	U	C5-C4-O4	5.03	128.92	125.90
85	5	357	A	C4-C5-C6	5.03	119.52	117.00
85	5	575	G	O5'-P-OP1	-5.03	101.17	105.70
85	5	625	G	C5-N7-C8	5.03	106.81	104.30
85	5	783	A	C6-N1-C2	5.03	121.62	118.60
85	5	1108	U	O4'-C1'-N1	-5.03	104.18	108.20
85	5	1269	U	C4-C5-C6	5.03	122.72	119.70
85	5	1476	G	C5-N7-C8	5.03	106.82	104.30
85	5	1763	U	P-O3'-C3'	5.03	125.74	119.70
85	5	1870	C	C4-C5-C6	5.03	119.92	117.40
85	5	2566	C	OP1-P-OP2	5.03	127.15	119.60
85	5	3011	A	N7-C8-N9	-5.03	111.28	113.80
85	5	3026	G	N1-C2-N3	5.03	126.92	123.90
85	5	3263	G	C5-C6-O6	5.03	131.62	128.60
85	5	3353	G	C5-N7-C8	-5.03	101.78	104.30
40	l3	148	LEU	CB-CG-CD2	-5.03	102.45	111.00
36	1	624	G	N1-C6-O6	5.03	122.92	119.90
36	1	2887	A	N9-C4-C5	-5.03	103.79	105.80
36	1	3301	U	OP1-P-O3'	5.03	116.26	105.20
42	L5	218	ARG	NE-CZ-NH2	-5.03	117.79	120.30
80	6	382	C	C6-N1-C2	5.03	122.31	120.30
85	5	42	C	N3-C4-N4	5.03	121.52	118.00
85	5	289	A	C6-N1-C2	-5.03	115.58	118.60
85	5	1423	C	N3-C2-O2	5.03	125.42	121.90
85	5	2533	G	C4-C5-C6	-5.03	115.78	118.80
37	7	24	A	OP1-P-OP2	-5.03	112.06	119.60
1	2	146	U	N3-C2-O2	-5.03	118.68	122.20
1	2	1614	A	C2-N3-C4	-5.03	108.09	110.60
36	1	605	U	OP2-P-O3'	5.03	116.26	105.20
36	1	886	C	C2-N1-C1'	-5.03	113.27	118.80
36	1	970	A	OP1-P-O3'	5.03	116.26	105.20
36	1	1095	U	OP1-P-OP2	-5.03	112.06	119.60
36	1	1603	A	N7-C8-N9	-5.03	111.29	113.80
36	1	1904	C	OP2-P-O3'	5.03	116.26	105.20
36	1	2312	A	C8-N9-C4	-5.03	103.79	105.80
36	1	2320	A	N1-C6-N6	-5.03	115.58	118.60
36	1	2684	C	C2-N3-C4	-5.03	117.39	119.90
36	1	3331	U	O5'-P-OP2	-5.03	101.18	105.70
37	3	56	A	N3-C4-C5	5.03	130.32	126.80
38	4	4	C	O5'-P-OP2	-5.03	101.17	105.70
80	6	940	A	N7-C8-N9	5.03	116.31	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	1143	A	OP1-P-OP2	5.03	127.14	119.60
80	6	1621	U	O5'-P-OP2	-5.03	101.18	105.70
80	6	1635	A	C6-C5-N7	-5.03	128.78	132.30
85	5	58	G	C8-N9-C4	-5.03	104.39	106.40
85	5	622	A	C5-N7-C8	5.03	106.41	103.90
85	5	627	U	N3-C4-O4	-5.03	115.88	119.40
85	5	849	C	N1-C2-N3	5.03	122.72	119.20
85	5	1151	U	C2-N1-C1'	5.03	123.73	117.70
85	5	1288	U	C5-C4-O4	-5.03	122.88	125.90
85	5	1600	U	C5-C4-O4	5.03	128.92	125.90
85	5	1724	U	C6-N1-C2	5.03	124.02	121.00
85	5	2173	U	N1-C2-N3	5.03	117.92	114.90
85	5	3365	U	C5-C4-O4	-5.03	122.88	125.90
1	2	1225	A	C4-C5-C6	5.03	119.51	117.00
1	2	1281	U	N1-C2-N3	5.03	117.92	114.90
36	1	1423	C	OP2-P-O3'	5.03	116.25	105.20
36	1	2161	G	N3-C4-N9	5.03	129.02	126.00
36	1	2185	G	N7-C8-N9	5.03	115.61	113.10
36	1	2258	U	C5-C6-N1	5.03	125.21	122.70
36	1	2612	U	N3-C2-O2	-5.03	118.68	122.20
36	1	2648	G	N7-C8-N9	5.03	115.61	113.10
36	1	2853	A	C4-C5-N7	5.03	113.21	110.70
53	M7	91	VAL	CA-CB-CG1	-5.03	103.36	110.90
80	6	1020	A	N9-C4-C5	5.03	107.81	105.80
80	6	1108	G	N7-C8-N9	5.03	115.61	113.10
80	6	1447	C	C4-C5-C6	5.03	119.91	117.40
80	6	1451	C	N3-C4-N4	5.03	121.52	118.00
85	5	364	G	C6-C5-N7	-5.03	127.38	130.40
85	5	505	G	O5'-P-OP2	5.03	116.73	110.70
85	5	573	C	C5-C4-N4	-5.03	116.68	120.20
85	5	581	U	C2-N3-C4	5.03	130.01	127.00
85	5	676	G	N7-C8-N9	5.03	115.61	113.10
85	5	939	U	OP1-P-OP2	-5.03	112.06	119.60
85	5	1722	U	C5-C6-N1	-5.03	120.19	122.70
85	5	1830	G	O5'-P-OP2	-5.03	101.18	105.70
85	5	2161	G	C5-C6-O6	-5.03	125.58	128.60
85	5	3204	C	N3-C4-C5	5.03	123.91	121.90
1	2	668	A	N7-C8-N9	-5.02	111.29	113.80
36	1	131	C	OP1-P-O3'	5.02	116.25	105.20
36	1	1611	G	C2-N3-C4	-5.02	109.39	111.90
36	1	2622	C	N3-C2-O2	-5.02	118.38	121.90
36	1	2624	G	C5-N7-C8	-5.02	101.79	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	2898	G	C4-N9-C1'	5.02	133.03	126.50
36	1	2996	U	N3-C2-O2	-5.02	118.68	122.20
80	6	761	G	N1-C2-N3	5.02	126.92	123.90
80	6	978	A	N9-C4-C5	5.02	107.81	105.80
85	5	371	G	N1-C2-N2	5.02	120.72	116.20
85	5	1797	A	N1-C2-N3	5.02	131.81	129.30
85	5	2267	C	N3-C4-N4	-5.02	114.48	118.00
85	5	2639	G	N3-C4-C5	-5.02	126.09	128.60
85	5	2911	A	N1-C6-N6	-5.02	115.59	118.60
85	5	2913	C	OP1-P-O3'	5.02	116.25	105.20
37	7	25	G	C4-C5-C6	5.02	121.81	118.80
48	m1	94	ARG	NE-CZ-NH1	5.02	122.81	120.30
1	2	240	U	N1-C2-N3	-5.02	111.89	114.90
1	2	1287	G	N3-C2-N2	-5.02	116.38	119.90
1	2	1445	G	C5-C6-O6	-5.02	125.59	128.60
1	2	1717	U	N1-C2-N3	5.02	117.91	114.90
36	1	232	G	C5-C6-N1	-5.02	108.99	111.50
36	1	341	G	C6-C5-N7	-5.02	127.39	130.40
36	1	1182	A	N7-C8-N9	5.02	116.31	113.80
36	1	1187	C	N3-C2-O2	5.02	125.42	121.90
36	1	1851	G	C6-C5-N7	-5.02	127.39	130.40
36	1	2128	C	C4-C5-C6	5.02	119.91	117.40
36	1	2652	U	C4-C5-C6	5.02	122.71	119.70
36	1	2675	C	C5-C4-N4	-5.02	116.68	120.20
38	4	16	G	OP2-P-O3'	5.02	116.25	105.20
38	4	113	U	N1-C2-N3	-5.02	111.89	114.90
67	O1	104	LEU	CB-CG-CD1	-5.02	102.46	111.00
80	6	85	A	N1-C2-N3	5.02	131.81	129.30
80	6	115	G	C8-N9-C4	-5.02	104.39	106.40
80	6	358	U	OP1-P-O3'	5.02	116.25	105.20
80	6	837	G	C5-C6-N1	5.02	114.01	111.50
80	6	1481	C	N3-C2-O2	-5.02	118.38	121.90
80	6	1602	C	N3-C4-C5	5.02	123.91	121.90
80	6	1731	A	N7-C8-N9	5.02	116.31	113.80
80	6	1750	A	N9-C4-C5	-5.02	103.79	105.80
11	s9	69	ARG	NE-CZ-NH2	-5.02	117.79	120.30
85	5	744	A	O5'-P-OP2	-5.02	101.18	105.70
85	5	833	G	N1-C2-N3	5.02	126.91	123.90
85	5	957	C	O5'-P-OP1	-5.02	101.18	105.70
85	5	1238	C	N3-C4-C5	5.02	123.91	121.90
85	5	2196	C	C2-N3-C4	5.02	122.41	119.90
85	5	2891	U	N1-C2-N3	5.02	117.91	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	3024	A	OP1-P-O3'	5.02	116.25	105.20
85	5	3131	U	OP2-P-O3'	5.02	116.25	105.20
85	5	3382	U	C2-N1-C1'	5.02	123.73	117.70
85	5	3389	U	C5-C6-N1	-5.02	120.19	122.70
38	8	54	A	OP1-P-OP2	-5.02	112.07	119.60
54	m8	140	LEU	CB-CG-CD2	-5.02	102.46	111.00
1	2	2	A	C5-C6-N1	5.02	120.21	117.70
1	2	328	A	C4-C5-N7	5.02	113.21	110.70
1	2	828	G	C4-C5-N7	-5.02	108.79	110.80
36	1	192	C	C5-C4-N4	-5.02	116.69	120.20
36	1	692	A	N1-C6-N6	-5.02	115.59	118.60
36	1	707	U	C5-C4-O4	5.02	128.91	125.90
36	1	915	A	C6-N1-C2	-5.02	115.59	118.60
36	1	1122	U	C6-N1-C1'	5.02	128.23	121.20
36	1	2445	A	C5-N7-C8	5.02	106.41	103.90
36	1	2756	C	O5'-P-OP2	-5.02	101.18	105.70
36	1	3127	A	C2-N3-C4	-5.02	108.09	110.60
80	6	729	G	C2-N3-C4	5.02	114.41	111.90
80	6	776	G	N3-C4-C5	5.02	131.11	128.60
85	5	909	G	N1-C2-N2	-5.02	111.68	116.20
85	5	1174	G	N7-C8-N9	5.02	115.61	113.10
85	5	1614	C	OP2-P-O3'	5.02	116.25	105.20
85	5	2761	G	O5'-P-OP2	-5.02	101.18	105.70
38	8	122	U	C5-C6-N1	5.02	125.21	122.70
63	n7	135	ARG	NE-CZ-NH2	5.02	122.81	120.30
1	2	341	A	C4-C5-C6	5.02	119.51	117.00
1	2	789	A	N1-C6-N6	-5.02	115.59	118.60
1	2	993	C	C4-C5-C6	-5.02	114.89	117.40
1	2	1067	A	C5-C6-N6	-5.02	119.68	123.70
1	2	1528	A	OP1-P-OP2	-5.02	112.07	119.60
36	1	377	A	C6-N1-C2	-5.02	115.59	118.60
36	1	660	A	C6-N1-C2	-5.02	115.59	118.60
36	1	1508	C	C2-N3-C4	5.02	122.41	119.90
36	1	1784	G	C5-C6-N1	-5.02	108.99	111.50
36	1	1917	C	N3-C2-O2	-5.02	118.39	121.90
36	1	2323	G	C2-N3-C4	5.02	114.41	111.90
36	1	2396	G	C5-N7-C8	-5.02	101.79	104.30
36	1	3019	U	N3-C4-O4	5.02	122.91	119.40
36	1	3240	C	N3-C4-N4	5.02	121.51	118.00
36	1	3347	A	C5-C6-N6	-5.02	119.68	123.70
51	M5	99	ARG	NE-CZ-NH2	5.02	122.81	120.30
54	M8	141	ARG	NE-CZ-NH2	-5.02	117.79	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
80	6	35	U	N1-C2-O2	-5.02	119.29	122.80
80	6	104	A	N9-C4-C5	5.02	107.81	105.80
80	6	305	C	C4-C5-C6	5.02	119.91	117.40
80	6	389	G	N7-C8-N9	5.02	115.61	113.10
80	6	997	G	N3-C2-N2	-5.02	116.39	119.90
80	6	1094	G	N1-C6-O6	-5.02	116.89	119.90
80	6	1318	G	C8-N9-C4	5.02	108.41	106.40
80	6	1781	A	OP1-P-OP2	5.02	127.13	119.60
7	s5	156	ARG	NE-CZ-NH1	5.02	122.81	120.30
85	5	333	G	C5-C6-O6	5.02	131.61	128.60
85	5	920	A	C4-C5-C6	-5.02	114.49	117.00
85	5	924	G	C6-N1-C2	-5.02	122.09	125.10
85	5	994	G	N1-C2-N2	-5.02	111.68	116.20
85	5	1403	C	OP1-P-O3'	5.02	116.24	105.20
85	5	1830	G	C2-N3-C4	-5.02	109.39	111.90
85	5	2380	U	N3-C4-O4	5.02	122.91	119.40
85	5	2922	G	N9-C4-C5	-5.02	103.39	105.40
85	5	3336	A	OP1-P-O3'	5.02	116.25	105.20
1	2	294	C	N3-C4-N4	5.02	121.51	118.00
1	2	1060	C	OP2-P-O3'	5.02	116.24	105.20
1	2	1092	G	N3-C4-C5	5.02	131.11	128.60
1	2	1137	G	C5-C6-O6	-5.02	125.59	128.60
1	2	1279	A	N9-C4-C5	5.02	107.81	105.80
36	1	432	G	N1-C6-O6	5.02	122.91	119.90
36	1	528	U	C4-C5-C6	-5.02	116.69	119.70
36	1	1050	U	C6-N1-C2	-5.02	117.99	121.00
36	1	1090	G	C5-C6-O6	5.02	131.61	128.60
36	1	1700	G	N1-C2-N2	-5.02	111.69	116.20
36	1	1729	A	O5'-P-OP1	5.02	116.72	110.70
36	1	1820	U	C6-N1-C2	5.02	124.01	121.00
36	1	1829	G	C6-N1-C2	-5.02	122.09	125.10
36	1	1872	C	N3-C4-C5	5.02	123.91	121.90
36	1	1880	U	C4-C5-C6	5.02	122.71	119.70
50	M4	60	LEU	CB-CG-CD1	-5.02	102.47	111.00
77	Q1	17	ARG	NE-CZ-NH2	-5.02	117.79	120.30
80	6	860	U	C2-N3-C4	-5.02	123.99	127.00
80	6	1056	U	C5-C6-N1	5.02	125.21	122.70
85	5	213	A	C4-C5-C6	5.02	119.51	117.00
85	5	671	U	N1-C2-O2	-5.02	119.29	122.80
85	5	722	G	N7-C8-N9	-5.02	110.59	113.10
85	5	808	A	N1-C6-N6	5.02	121.61	118.60
85	5	1207	G	C8-N9-C4	5.02	108.41	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	1647	A	C5-C6-N1	5.02	120.21	117.70
85	5	1770	G	N1-C2-N3	5.02	126.91	123.90
85	5	2339	C	C5-C4-N4	-5.02	116.69	120.20
85	5	2574	G	OP1-P-OP2	5.02	127.13	119.60
85	5	2651	G	C6-C5-N7	5.02	133.41	130.40
85	5	2936	A	O5'-P-OP1	5.02	116.72	110.70
85	5	2937	G	N9-C4-C5	5.02	107.41	105.40
85	5	3075	G	N1-C6-O6	5.02	122.91	119.90
85	5	3320	A	OP2-P-O3'	5.02	116.24	105.20
37	7	100	C	N3-C4-N4	5.02	121.51	118.00
38	8	64	U	N3-C4-O4	5.02	122.91	119.40
57	n1	106	LEU	CA-CB-CG	-5.02	103.76	115.30
1	2	103	A	C8-N9-C4	-5.02	103.79	105.80
1	2	851	G	C5-C6-N1	-5.02	108.99	111.50
36	1	58	G	OP1-P-OP2	-5.02	112.08	119.60
36	1	530	G	N1-C2-N3	-5.02	120.89	123.90
36	1	819	U	OP2-P-O3'	5.02	116.23	105.20
36	1	1105	A	N3-C4-C5	5.02	130.31	126.80
36	1	2098	C	O4'-C1'-N1	5.02	112.21	108.20
36	1	2098	C	C6-N1-C1'	5.02	126.82	120.80
38	4	146	U	C6-N1-C2	5.02	124.01	121.00
43	L6	46	ARG	NE-CZ-NH1	-5.02	117.79	120.30
85	5	201	A	C6-N1-C2	-5.02	115.59	118.60
85	5	271	C	N3-C4-N4	-5.02	114.49	118.00
85	5	625	G	N1-C2-N2	5.02	120.72	116.20
85	5	916	G	P-O3'-C3'	5.02	125.72	119.70
85	5	2379	U	N3-C4-O4	-5.02	115.89	119.40
85	5	2910	A	C8-N9-C4	-5.02	103.79	105.80
38	8	40	A	O5'-P-OP2	-5.02	101.19	105.70
1	2	88	U	C4-C5-C6	5.01	122.71	119.70
1	2	247	A	N7-C8-N9	5.01	116.31	113.80
1	2	286	C	C4-C5-C6	5.01	119.91	117.40
1	2	471	A	OP1-P-O3'	5.01	116.23	105.20
1	2	477	A	C4-C5-C6	-5.01	114.49	117.00
1	2	791	U	C6-N1-C2	-5.01	117.99	121.00
1	2	1130	A	N1-C6-N6	5.01	121.61	118.60
36	1	52	A	N9-C4-C5	5.01	107.81	105.80
36	1	330	G	C4-C5-N7	5.01	112.81	110.80
36	1	514	G	N1-C2-N3	5.01	126.91	123.90
36	1	612	U	OP2-P-O3'	5.01	116.23	105.20
36	1	1083	G	N1-C6-O6	-5.01	116.89	119.90
36	1	1113	G	O5'-P-OP1	5.01	116.72	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	1180	A	C2-N3-C4	-5.01	108.09	110.60
36	1	1781	C	O5'-P-OP1	5.01	116.72	110.70
36	1	2213	A	O5'-P-OP1	5.01	116.72	110.70
36	1	2305	G	N7-C8-N9	5.01	115.61	113.10
36	1	2424	A	N3-C4-C5	5.01	130.31	126.80
36	1	2657	A	C2-N3-C4	-5.01	108.09	110.60
36	1	3318	G	O5'-P-OP1	-5.01	101.19	105.70
38	4	63	G	C2-N3-C4	5.01	114.41	111.90
80	6	40	A	C5-C6-N1	-5.01	115.19	117.70
80	6	357	G	C5-N7-C8	5.01	106.81	104.30
80	6	754	A	N3-C4-N9	5.01	131.41	127.40
80	6	1049	U	OP1-P-OP2	-5.01	112.08	119.60
85	5	272	G	C6-N1-C2	-5.01	122.09	125.10
85	5	616	G	C2-N3-C4	-5.01	109.39	111.90
85	5	883	A	N9-C4-C5	5.01	107.81	105.80
85	5	902	G	C6-C5-N7	-5.01	127.39	130.40
85	5	1035	G	N1-C2-N3	5.01	126.91	123.90
85	5	1428	A	C5-C6-N6	5.01	127.71	123.70
85	5	1611	G	N3-C4-C5	-5.01	126.09	128.60
85	5	2115	G	N9-C4-C5	5.01	107.41	105.40
85	5	2179	C	C4-C5-C6	5.01	119.91	117.40
85	5	2787	G	C5-C6-N1	-5.01	108.99	111.50
85	5	3090	U	N1-C2-N3	5.01	117.91	114.90
89	p0	61	ARG	NE-CZ-NH2	5.01	122.81	120.30
28	D6	10	ARG	NE-CZ-NH2	5.01	122.81	120.30
36	1	918	C	N3-C4-C5	-5.01	119.89	121.90
36	1	1144	U	N3-C4-C5	5.01	117.61	114.60
36	1	1360	C	N3-C4-C5	-5.01	119.89	121.90
36	1	2961	G	N1-C2-N2	-5.01	111.69	116.20
37	3	37	G	N7-C8-N9	5.01	115.61	113.10
80	6	324	U	N3-C4-O4	5.01	122.91	119.40
80	6	573	C	OP1-P-OP2	5.01	127.12	119.60
85	5	433	A	O5'-P-OP1	5.01	116.72	110.70
85	5	1100	U	C5-C4-O4	5.01	128.91	125.90
85	5	1702	U	C5-C6-N1	5.01	125.21	122.70
85	5	2099	A	O4'-C1'-N9	5.01	112.21	108.20
85	5	2744	U	N3-C2-O2	-5.01	118.69	122.20
85	5	2828	G	C2-N3-C4	-5.01	109.39	111.90
1	2	267	U	C5-C4-O4	-5.01	122.89	125.90
1	2	595	G	OP1-P-O3'	5.01	116.22	105.20
1	2	1101	G	O5'-P-OP2	5.01	116.72	110.70
1	2	1365	A	C8-N9-C4	5.01	107.81	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1764	A	C5-C6-N1	-5.01	115.19	117.70
36	1	43	A	OP1-P-OP2	5.01	127.12	119.60
36	1	133	U	OP2-P-O3'	5.01	116.22	105.20
36	1	425	G	N7-C8-N9	5.01	115.61	113.10
36	1	431	U	OP2-P-O3'	5.01	116.22	105.20
36	1	1392	G	C2-N3-C4	5.01	114.41	111.90
36	1	2157	G	C6-C5-N7	-5.01	127.39	130.40
36	1	2236	G	O5'-P-OP2	5.01	116.71	110.70
36	1	2360	C	O5'-P-OP2	-5.01	101.19	105.70
36	1	3202	G	N9-C4-C5	-5.01	103.39	105.40
36	1	3245	A	C6-N1-C2	5.01	121.61	118.60
37	3	54	U	N1-C2-N3	5.01	117.91	114.90
38	4	11	C	C2-N3-C4	5.01	122.41	119.90
38	4	97	A	N1-C6-N6	-5.01	115.59	118.60
46	L9	38	LEU	CB-CG-CD2	-5.01	102.48	111.00
51	M5	85	THR	CA-CB-CG2	-5.01	105.39	112.40
53	M7	56	ARG	NE-CZ-NH2	-5.01	117.79	120.30
80	6	156	A	C8-N9-C4	5.01	107.80	105.80
80	6	478	A	C6-C5-N7	-5.01	128.79	132.30
80	6	533	U	C4-C5-C6	5.01	122.71	119.70
80	6	785	U	C4-C5-C6	-5.01	116.69	119.70
80	6	808	U	N3-C2-O2	5.01	125.71	122.20
80	6	959	U	OP1-P-OP2	5.01	127.12	119.60
80	6	977	A	C5-C6-N6	-5.01	119.69	123.70
80	6	991	G	C4-C5-N7	-5.01	108.80	110.80
80	6	1291	G	N3-C4-C5	-5.01	126.09	128.60
80	6	1596	C	C5-C6-N1	-5.01	118.49	121.00
85	5	14	U	C5-C4-O4	-5.01	122.89	125.90
85	5	231	G	C5-N7-C8	-5.01	101.79	104.30
85	5	269	G	C5-C6-O6	5.01	131.61	128.60
85	5	822	G	C6-N1-C2	-5.01	122.09	125.10
85	5	1862	U	N1-C2-O2	-5.01	119.29	122.80
85	5	2645	G	OP1-P-O3'	5.01	116.23	105.20
85	5	2915	U	O4'-C1'-N1	-5.01	104.19	108.20
85	5	3233	C	C5-C6-N1	-5.01	118.49	121.00
85	5	3239	G	C8-N9-C1'	5.01	133.52	127.00
37	7	87	G	OP1-P-OP2	5.01	127.12	119.60
52	m6	51	LYS	CD-CE-NZ	5.01	123.23	111.70
1	2	322	G	C5-C6-O6	5.01	131.60	128.60
1	2	1098	U	C2-N3-C4	-5.01	123.99	127.00
1	2	1132	G	O4'-C1'-N9	5.01	112.21	108.20
1	2	1135	A	C4-C5-C6	5.01	119.50	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	1527	U	N3-C4-O4	-5.01	115.89	119.40
1	2	1715	A	C4-C5-N7	-5.01	108.19	110.70
36	1	124	U	N3-C2-O2	-5.01	118.69	122.20
36	1	320	G	N1-C2-N3	5.01	126.91	123.90
36	1	361	A	C5-C6-N1	5.01	120.20	117.70
36	1	1019	G	N9-C4-C5	-5.01	103.40	105.40
36	1	1474	A	C6-C5-N7	-5.01	128.79	132.30
36	1	1859	A	C5-C6-N6	5.01	127.71	123.70
36	1	2132	C	N1-C2-N3	5.01	122.71	119.20
36	1	2134	G	N7-C8-N9	-5.01	110.59	113.10
36	1	2292	U	C2-N1-C1'	5.01	123.71	117.70
36	1	3144	G	N3-C4-N9	-5.01	123.00	126.00
36	1	3284	G	OP1-P-OP2	5.01	127.11	119.60
44	L7	191	VAL	CG1-CB-CG2	-5.01	102.89	110.90
80	6	555	A	N3-C4-C5	-5.01	123.29	126.80
80	6	641	G	N9-C4-C5	5.01	107.40	105.40
80	6	1441	C	N1-C2-O2	5.01	121.91	118.90
85	5	130	A	N1-C6-N6	-5.01	115.59	118.60
85	5	169	U	C6-N1-C2	5.01	124.01	121.00
85	5	424	G	N3-C2-N2	-5.01	116.39	119.90
85	5	632	G	N3-C4-C5	-5.01	126.09	128.60
85	5	646	A	N1-C6-N6	-5.01	115.59	118.60
85	5	646	A	N3-C4-N9	-5.01	123.39	127.40
85	5	1010	G	C4-C5-N7	5.01	112.80	110.80
85	5	1072	G	OP1-P-O3'	5.01	116.22	105.20
85	5	1339	C	C2-N3-C4	-5.01	117.39	119.90
85	5	1379	G	C6-C5-N7	-5.01	127.39	130.40
85	5	1612	A	C5-C6-N1	-5.01	115.19	117.70
85	5	2870	C	OP1-P-O3'	5.01	116.22	105.20
85	5	3063	C	C5-C6-N1	5.01	123.50	121.00
85	5	3340	G	N1-C6-O6	-5.01	116.89	119.90
41	14	117	GLU	CA-CB-CG	5.01	124.42	113.40
86	18	70	LYS	CD-CE-NZ	5.01	123.22	111.70
1	2	397	A	OP1-P-OP2	-5.01	112.09	119.60
1	2	1115	A	N9-C4-C5	5.01	107.80	105.80
36	1	777	U	C4-C5-C6	5.01	122.70	119.70
36	1	1590	G	N1-C2-N3	5.01	126.91	123.90
36	1	2132	C	C6-N1-C1'	-5.01	114.79	120.80
36	1	3318	G	N1-C2-N2	-5.01	111.69	116.20
38	4	126	A	C5-N7-C8	5.01	106.40	103.90
80	6	1634	C	N3-C4-C5	-5.01	119.90	121.90
80	6	1653	C	C6-N1-C2	5.01	122.30	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	5	687	U	C2-N3-C4	-5.01	124.00	127.00
85	5	904	A	C8-N9-C4	-5.01	103.80	105.80
85	5	1164	G	OP2-P-O3'	5.01	116.22	105.20
85	5	2217	U	O5'-P-OP1	5.01	116.71	110.70
1	2	136	C	N3-C4-N4	-5.01	114.50	118.00
1	2	923	A	N9-C4-C5	5.01	107.80	105.80
1	2	1103	U	N1-C2-O2	5.01	126.30	122.80
1	2	1358	A	C5-N7-C8	-5.01	101.40	103.90
36	1	36	C	N3-C4-N4	5.01	121.50	118.00
36	1	292	U	C5-C4-O4	-5.01	122.90	125.90
36	1	1208	U	C6-N1-C1'	-5.01	114.19	121.20
36	1	1904	C	C6-N1-C1'	5.01	126.81	120.80
36	1	2414	G	C2-N3-C4	-5.01	109.40	111.90
36	1	2794	G	C6-N1-C2	-5.01	122.10	125.10
36	1	3163	A	C5-N7-C8	5.01	106.40	103.90
36	1	3241	G	O5'-P-OP1	5.01	116.71	110.70
37	3	41	G	OP1-P-OP2	-5.01	112.09	119.60
68	O2	50	ILE	CG1-CB-CG2	-5.01	100.38	111.40
80	6	7	G	C4-C5-N7	5.01	112.80	110.80
80	6	466	U	C5-C6-N1	-5.01	120.20	122.70
80	6	498	G	C5-C6-N1	-5.01	109.00	111.50
80	6	1024	U	O5'-P-OP2	-5.01	101.19	105.70
80	6	1081	A	N9-C4-C5	-5.01	103.80	105.80
80	6	1323	C	OP2-P-O3'	5.01	116.21	105.20
80	6	1725	U	C6-N1-C2	-5.01	118.00	121.00
85	5	800	G	C5-N7-C8	-5.01	101.80	104.30
85	5	1039	U	O5'-P-OP2	5.01	116.71	110.70
85	5	1041	U	OP1-P-OP2	5.01	127.11	119.60
85	5	1190	A	C8-N9-C4	-5.01	103.80	105.80
85	5	2375	G	C5-C6-O6	-5.01	125.60	128.60
85	5	2396	G	N3-C4-N9	-5.01	123.00	126.00
85	5	2942	C	OP2-P-O3'	5.01	116.22	105.20
85	5	3236	U	N1-C2-N3	-5.01	111.90	114.90
85	5	3326	G	N3-C2-N2	5.01	123.41	119.90
37	7	89	G	C5-C6-O6	5.01	131.60	128.60
37	7	94	C	C5-C4-N4	-5.01	116.70	120.20
38	8	155	A	N3-C4-C5	-5.01	123.30	126.80
40	l3	4	ARG	CD-NE-CZ	5.01	130.61	123.60
41	l4	47	ARG	NE-CZ-NH1	5.01	122.80	120.30
1	2	287	G	C6-C5-N7	5.00	133.40	130.40
1	2	339	C	N1-C2-N3	5.00	122.70	119.20
36	1	27	C	N3-C4-N4	-5.00	114.50	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	1	351	A	C5-N7-C8	5.00	106.40	103.90
36	1	429	U	O5'-P-OP1	-5.00	101.20	105.70
36	1	572	A	O5'-P-OP1	-5.00	101.19	105.70
36	1	706	A	N9-C1'-C2'	-5.00	106.49	112.00
36	1	2871	G	N3-C4-N9	-5.00	123.00	126.00
36	1	2966	G	C4-C5-C6	5.00	121.80	118.80
80	6	605	A	N7-C8-N9	5.00	116.30	113.80
80	6	1513	G	C2-N3-C4	5.00	114.40	111.90
85	5	199	A	N1-C6-N6	-5.00	115.60	118.60
85	5	949	C	C5-C6-N1	5.00	123.50	121.00
85	5	2417	U	OP2-P-O3'	5.00	116.21	105.20
85	5	3145	C	C2-N3-C4	5.00	122.40	119.90
44	17	219	LYS	CD-CE-NZ	5.00	123.21	111.70
51	m5	155	VAL	CG1-CB-CG2	5.00	118.91	110.90
1	2	979	U	N3-C2-O2	-5.00	118.70	122.20
1	2	1541	U	OP1-P-OP2	-5.00	112.09	119.60
36	1	352	A	N9-C4-C5	-5.00	103.80	105.80
36	1	673	U	C6-N1-C1'	5.00	128.21	121.20
36	1	969	C	C5'-C4'-O4'	-5.00	103.10	109.10
36	1	1103	A	C8-N9-C4	5.00	107.80	105.80
36	1	1590	G	C4-C5-N7	-5.00	108.80	110.80
36	1	1656	A	C4-C5-C6	5.00	119.50	117.00
36	1	1846	C	N3-C2-O2	5.00	125.40	121.90
36	1	2313	A	C2-N3-C4	-5.00	108.10	110.60
36	1	2359	C	O5'-P-OP2	-5.00	101.20	105.70
36	1	3175	U	C5-C6-N1	5.00	125.20	122.70
38	4	46	G	OP1-P-OP2	5.00	127.10	119.60
38	4	73	U	C4-C5-C6	-5.00	116.70	119.70
80	6	413	U	N3-C4-C5	5.00	117.60	114.60
80	6	423	G	N1-C2-N3	-5.00	120.90	123.90
80	6	824	G	C8-N9-C4	-5.00	104.40	106.40
80	6	1120	U	N1-C2-N3	5.00	117.90	114.90
80	6	1635	A	C5-C6-N6	-5.00	119.70	123.70
85	5	135	C	O5'-P-OP1	-5.00	101.20	105.70
85	5	226	C	O5'-P-OP2	5.00	116.70	110.70
85	5	877	C	C5-C6-N1	5.00	123.50	121.00
85	5	2317	A	C6-C5-N7	5.00	135.80	132.30
85	5	2330	C	N1-C2-O2	-5.00	115.90	118.90
85	5	2540	A	C2-N3-C4	5.00	113.10	110.60
85	5	2578	U	N3-C2-O2	-5.00	118.70	122.20
85	5	3337	G	OP2-P-O3'	5.00	116.21	105.20
38	8	111	A	C5-C6-N1	-5.00	115.20	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	8	145	U	C4-C5-C6	-5.00	116.70	119.70
1	2	507	U	N1-C2-O2	5.00	126.30	122.80
1	2	745	A	C5-N7-C8	5.00	106.40	103.90
36	1	46	U	OP1-P-OP2	-5.00	112.10	119.60
36	1	431	U	O5'-P-OP1	-5.00	101.20	105.70
36	1	621	A	N9-C1'-C2'	5.00	120.50	114.00
36	1	1405	U	OP1-P-OP2	5.00	127.10	119.60
36	1	1417	G	C6-N1-C2	-5.00	122.10	125.10
36	1	1537	A	OP1-P-OP2	-5.00	112.10	119.60
36	1	1828	A	OP2-P-O3'	5.00	116.20	105.20
36	1	2121	G	N3-C4-C5	-5.00	126.10	128.60
36	1	2364	G	N3-C4-C5	5.00	131.10	128.60
36	1	2725	U	C5-C6-N1	-5.00	120.20	122.70
36	1	3154	C	N3-C4-C5	-5.00	119.90	121.90
36	1	3372	A	C4-C5-N7	-5.00	108.20	110.70
36	1	3372	A	C8-N9-C4	5.00	107.80	105.80
38	4	52	A	N1-C2-N3	5.00	131.80	129.30
64	N8	103	ASP	CB-CG-OD1	-5.00	113.80	118.30
80	6	130	C	N3-C4-C5	5.00	123.90	121.90
80	6	440	U	N1-C2-O2	-5.00	119.30	122.80
80	6	797	G	N7-C8-N9	-5.00	110.60	113.10
80	6	995	A	C8-N9-C4	-5.00	103.80	105.80
85	5	619	A	N7-C8-N9	-5.00	111.30	113.80
85	5	920	A	OP1-P-O3'	-5.00	94.20	105.20
85	5	1220	U	O5'-P-OP2	-5.00	101.20	105.70
85	5	1333	C	OP1-P-OP2	-5.00	112.10	119.60
85	5	1553	U	N3-C4-C5	-5.00	111.60	114.60
85	5	1715	A	N1-C2-N3	-5.00	126.80	129.30
85	5	2400	G	C2-N3-C4	-5.00	109.40	111.90
85	5	2429	G	N7-C8-N9	-5.00	110.60	113.10
85	5	2574	G	N3-C4-C5	5.00	131.10	128.60
85	5	2761	G	N7-C8-N9	-5.00	110.60	113.10
85	5	2844	C	N3-C4-C5	-5.00	119.90	121.90

There are no chirality outliers.

All (39) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
85	5	1133	A	Sidechain
80	6	652	G	Sidechain
19	C7	85	VAL	Peptide
27	D5	94	LYS	Peptide

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Mol	Chain	Res	Type	Group
33	E1	101	ALA	Peptide
33	E1	146	SER	Peptide
39	L2	19	HIS	Peptide
40	L3	27	ALA	Peptide
41	L4	174	ALA	Peptide
41	L4	271	LYS	Peptide
44	L7	157	ASN	Peptide
47	M0	213	PHE	Mainchain
52	M6	110	PRO	Peptide
53	M7	120	ASN	Peptide
53	M7	55	GLN	Peptide
57	N1	16	GLN	Peptide
65	N9	19	ASN	Peptide
6	S4	148	ARG	Peptide
6	S4	193	GLY	Peptide
11	S9	38	ASN	Peptide
81	c0	33	GLU	Peptide
17	c5	52	LYS	Peptide
22	d0	70	THR	Peptide
25	d3	44	GLY	Peptide
40	l3	244	ARG	Peptide
41	l4	13	GLY	Peptide
42	l5	270	LYS	Peptide
42	l5	271	LYS	Peptide
44	l7	192	GLY	Peptide
44	l7	226	GLY	Peptide
49	m3	15	ARG	Peptide
52	m6	110	PRO	Peptide
56	n0	133	ALA	Peptide
56	n0	3	HIS	Peptide
64	n8	66	ALA	Peptide
65	n9	24	PRO	Peptide
68	o2	15	LYS	Peptide
75	o9	24	PRO	Peptide
9	s7	130	VAL	Peptide

## 5.2 Too-close contacts

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry related clashes.



Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	2	37970	0	19104	1323	0
2	S0	1577	0	1567	211	0
2	s0	1583	0	1578	0	0
3	S1	1709	0	1784	189	0
3	s1	1722	0	1793	0	0
4	S2	1635	0	1723	181	0
4	s2	1635	0	1723	0	0
5	S3	1734	0	1817	145	0
5	s3	1734	0	1817	0	0
6	S4	2068	0	2154	238	0
6	s4	2068	0	2154	0	0
7	S5	1609	0	1675	170	0
7	s5	1609	0	1675	0	0
8	S6	1799	0	1879	181	0
8	s6	1755	0	1845	0	0
9	S7	1481	0	1572	166	0
9	s7	1491	0	1578	0	0
10	S8	1489	0	1525	135	0
10	s8	1489	0	1525	0	0
11	S9	1494	0	1573	153	0
11	s9	1494	0	1573	0	0
12	C0	773	0	716	70	0
13	C1	1214	0	1244	89	0
13	c1	1168	0	1231	0	0
14	C2	890	0	885	71	0
14	c2	890	0	884	0	0
15	C3	1192	0	1255	121	0
15	c3	1192	0	1255	0	0
16	C4	891	0	883	125	0
16	c4	949	0	985	0	0
17	C5	977	0	1004	115	0
17	c5	1039	0	1038	0	0
18	C6	1105	0	1166	136	0
18	c6	1111	0	1171	0	0
19	C7	926	0	930	94	0
20	C8	1192	0	1222	149	0
20	c8	1192	0	1222	0	0
21	C9	1112	0	1124	135	0
21	c9	1112	0	1124	0	0
22	D0	855	0	917	96	0
22	d0	882	0	939	0	0
23	D1	684	0	672	86	0
23	d1	684	0	672	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
24	D2	1021	0	1060	126	0
24	d2	1021	0	1060	0	0
25	D3	1121	0	1196	108	0
25	d3	1121	0	1196	0	0
26	D4	1073	0	1132	123	0
26	d4	1073	0	1132	0	0
27	D5	563	0	603	72	0
27	d5	558	0	598	0	0
28	D6	769	0	815	110	0
28	d6	769	0	815	0	0
29	D7	610	0	632	48	0
29	d7	610	0	633	0	0
30	D8	497	0	535	52	0
30	d8	497	0	535	0	0
31	D9	442	0	427	42	0
31	d9	442	0	429	0	0
32	E0	475	0	525	47	0
32	e0	491	0	542	0	0
33	E1	566	0	602	65	0
33	e1	608	0	657	0	0
34	SR	2437	0	2389	195	0
35	SM	1105	0	966	82	0
36	1	67355	0	33710	2364	0
37	3	2579	0	1302	133	0
37	7	2579	0	1293	96	0
38	4	3353	0	1692	139	0
38	8	3353	0	1692	139	0
39	L2	1914	0	1981	250	0
39	l2	1912	0	1976	0	0
40	L3	3075	0	3142	361	0
40	l3	3075	0	3141	0	0
41	L4	2748	0	2858	382	0
41	l4	2748	0	2858	0	0
42	L5	2375	0	2325	323	0
42	l5	2359	0	2311	0	0
43	L6	1239	0	1326	119	0
43	l6	1248	0	1339	0	0
44	L7	1784	0	1862	228	0
44	l7	1791	0	1869	0	0
45	L8	1804	0	1877	214	0
46	L9	1518	0	1587	194	0
46	l9	1518	0	1587	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
47	M0	1705	0	1735	252	0
47	m0	1722	0	1755	0	0
48	M1	1353	0	1383	165	0
48	m1	1353	0	1383	0	0
49	M3	1543	0	1608	206	0
49	m3	1548	0	1613	0	0
50	M4	1053	0	1149	125	0
50	m4	1059	0	1154	0	0
51	M5	1720	0	1779	264	0
51	m5	1720	0	1779	0	0
52	M6	1555	0	1659	165	0
52	m6	1555	0	1659	0	0
53	M7	1420	0	1437	169	0
53	m7	1227	0	1236	0	0
54	M8	1441	0	1543	173	0
54	m8	1441	0	1543	0	0
55	M9	1521	0	1617	153	0
55	m9	1521	0	1617	0	0
56	N0	1445	0	1486	173	0
56	n0	1445	0	1487	0	0
57	N1	1276	0	1323	155	0
57	n1	1276	0	1323	0	0
58	N2	796	0	812	89	0
58	n2	778	0	791	0	0
59	N3	1003	0	1047	116	0
59	n3	1003	0	1047	0	0
60	N4	699	0	640	49	0
61	N5	964	0	1025	107	0
61	n5	959	0	1023	0	0
62	N6	993	0	1081	133	0
62	n6	993	0	1081	0	0
63	N7	1092	0	1155	140	0
63	n7	1092	0	1155	0	0
64	N8	1173	0	1214	186	0
64	n8	1173	0	1215	0	0
65	N9	462	0	491	67	0
65	n9	462	0	491	0	0
66	O0	743	0	797	73	0
66	o0	767	0	816	0	0
67	O1	876	0	912	97	0
67	o1	883	0	918	0	0
68	O2	1020	0	1090	125	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
68	o2	1020	0	1090	0	0
69	O3	850	0	880	97	0
69	o3	850	0	880	0	0
70	O4	880	0	945	98	0
70	o4	880	0	945	0	0
71	O5	969	0	1078	119	0
71	o5	965	0	1067	0	0
72	O6	771	0	849	93	0
72	o6	770	0	846	0	0
73	O7	681	0	682	86	0
73	o7	681	0	685	0	0
74	O8	612	0	682	50	0
74	o8	608	0	671	0	0
75	O9	436	0	475	59	0
75	o9	436	0	475	0	0
76	Q0	417	0	455	56	0
76	q0	417	0	458	0	0
77	Q1	233	0	284	21	0
77	q1	233	0	284	0	0
78	Q2	847	0	915	103	0
78	q2	847	0	915	0	0
79	Q3	694	0	734	86	0
79	q3	694	0	736	0	0
80	6	38260	0	19230	1390	0
81	c0	762	0	688	0	0
82	c7	906	0	909	0	0
83	sR	2442	0	2392	0	0
84	sM	681	0	542	0	0
85	5	67376	0	33690	2427	0
86	l8	1763	0	1811	0	0
87	m2	750	0	174	0	0
88	n4	1038	0	1071	0	0
89	p0	1077	0	1013	0	0
90	p1	235	0	52	0	0
90	p2	230	0	49	0	0
91	P	37	0	23	15	0
91	p	40	0	23	0	0
92	1	2296	0	0	258	0
92	2	1057	0	0	102	0
92	3	70	0	0	11	0
92	4	147	0	0	18	0
92	5	2422	0	0	260	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
92	6	1113	0	0	106	0
92	7	77	0	0	10	0
92	8	112	0	0	12	0
92	C3	7	0	0	6	0
92	C5	7	0	0	4	0
92	C7	7	0	0	2	0
92	C8	7	0	0	0	0
92	D9	7	0	0	1	0
92	L3	14	0	0	3	0
92	L4	7	0	0	3	0
92	L6	14	0	0	2	0
92	M0	7	0	0	2	0
92	M5	14	0	0	2	0
92	M6	7	0	0	1	0
92	M7	7	0	0	1	0
92	M8	7	0	0	1	0
92	M9	7	0	0	2	0
92	N9	7	0	0	0	0
92	O3	7	0	0	3	0
92	O4	7	0	0	0	0
92	O7	7	0	0	7	0
92	O9	7	0	0	2	0
92	Q2	7	0	0	4	0
92	S8	7	0	0	3	0
92	S9	7	0	0	4	0
92	SR	7	0	0	0	0
92	c3	7	0	0	0	0
92	c5	7	0	0	0	0
92	c8	7	0	0	0	0
92	d4	7	0	0	0	0
92	l3	14	0	0	0	0
92	l5	14	0	0	0	0
92	l9	7	0	0	0	0
92	m0	21	0	0	0	0
92	m5	14	0	0	0	0
92	m6	7	0	0	0	0
92	m8	7	0	0	0	0
92	m9	7	0	0	0	0
92	n9	7	0	0	0	0
92	o3	7	0	0	0	0
92	o7	14	0	0	0	0
92	q2	7	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
92	s1	7	0	0	0	0
92	s4	7	0	0	0	0
92	s8	7	0	0	0	0
92	s9	7	0	0	0	0
92	sR	7	0	0	0	0
93	1	394	0	0	1	0
93	2	90	0	0	0	0
93	3	7	0	0	0	0
93	4	17	0	0	0	0
93	5	427	0	0	0	0
93	6	126	0	0	0	0
93	7	15	0	0	0	0
93	8	14	0	0	0	0
93	C1	1	0	0	0	0
93	C8	1	0	0	0	0
93	C9	1	0	0	0	0
93	D9	2	0	0	0	0
93	L2	2	0	0	0	0
93	L3	3	0	0	0	0
93	L4	5	0	0	0	0
93	L7	2	0	0	0	0
93	M0	1	0	0	0	0
93	M3	1	0	0	0	0
93	M5	1	0	0	0	0
93	M7	5	0	0	0	0
93	N0	2	0	0	0	0
93	N3	3	0	0	0	0
93	N5	1	0	0	0	0
93	N6	2	0	0	0	0
93	N8	6	0	0	0	0
93	O4	1	0	0	0	0
93	O5	1	0	0	0	0
93	O7	4	0	0	0	0
93	P	1	0	0	0	0
93	Q2	1	0	0	0	0
93	S4	1	0	0	0	0
93	c6	1	0	0	0	0
93	c8	2	0	0	0	0
93	c9	1	0	0	0	0
93	d3	1	0	0	0	0
93	d4	1	0	0	0	0
93	d6	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
93	d7	1	0	0	0	0
93	l2	3	0	0	0	0
93	l3	4	0	0	0	0
93	l5	1	0	0	0	0
93	l6	1	0	0	0	0
93	l7	1	0	0	0	0
93	l9	1	0	0	0	0
93	m0	1	0	0	0	0
93	m4	1	0	0	0	0
93	m5	2	0	0	0	0
93	m6	4	0	0	0	0
93	m7	3	0	0	0	0
93	n0	2	0	0	0	0
93	n3	1	0	0	0	0
93	n6	2	0	0	0	0
93	n8	3	0	0	0	0
93	n9	2	0	0	0	0
93	o2	2	0	0	0	0
93	o3	2	0	0	0	0
93	o4	1	0	0	0	0
93	o9	1	0	0	0	0
93	p	2	0	0	0	0
93	q1	1	0	0	0	0
93	s4	1	0	0	0	0
93	s6	1	0	0	0	0
93	sM	2	0	0	0	0
94	D6	1	0	0	0	0
94	D7	1	0	0	0	0
94	D9	1	0	0	2	0
94	E1	1	0	0	0	0
94	O7	1	0	0	0	0
94	Q0	1	0	0	0	0
94	Q2	1	0	0	3	0
94	Q3	1	0	0	0	0
94	d6	1	0	0	0	0
94	d7	1	0	0	0	0
94	d9	1	0	0	0	0
94	e1	1	0	0	0	0
94	o7	1	0	0	0	0
94	q0	1	0	0	0	0
94	q2	1	0	0	0	0
94	q3	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
95	1	11	0	8	0	0
95	5	11	0	8	5	0
96	1	8	0	11	3	0
96	5	8	0	11	3	0
97	1	23	0	18	13	0
97	5	23	0	18	7	0
98	P	22	0	12	28	0
98	p	22	0	12	0	0
All	All	411589	0	297245	16026	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 23.

All (16026) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:C5:50:THR:CB	17:C5:50:THR:CA	1.74	1.62
96:1:3402:LEU:C	98:P:101:8AN:N3'	1.69	1.45
96:5:3402:LEU:C	98:P:101:8AN:N3'	212.18	1.41
78:Q2:17:CYS:SG	78:Q2:17:CYS:CB	2.09	1.40
78:Q2:17:CYS:CB	94:Q2:501:ZN:ZN	1.20	1.36
78:Q2:17:CYS:SG	94:Q2:501:ZN:ZN	1.18	1.32
56:N0:50:LYS:NZ	37:7:76:A:O2'	300.58	1.18
46:L9:62:ARG:NH2	85:5:3115:C:OP1	328.38	1.10
97:1:3403:SPS:C8	98:P:101:8AN:H5'A	1.81	1.09
23:D1:3:ASN:ND2	23:D1:7:GLN:O	4.18	1.09
36:1:1898:G:OP2	92:1:3468:OHX:N4	1.86	1.07
80:6:1150:G:O6	92:6:1968:OHX:N5	1.88	1.07
10:S8:162:ALA:HA	36:1:3353:G:H5'	1.34	1.07
43:L6:31:ARG:NH1	69:O3:107:ILE:O	1.90	1.05
41:L4:287:THR:HA	41:L4:290:ILE:HD12	1.38	1.04
36:1:2664:C:OP2	48:M1:142:LYS:NZ	1.91	1.04
97:1:3403:SPS:H81	98:P:101:8AN:H8	1.39	1.04
79:Q3:84:ARG:NH2	79:Q3:88:GLU:OE2	1.91	1.04
73:O7:87:SER:O	92:O7:102:OHX:N3	1.91	1.03
40:L3:232:ARG:NH1	40:L3:269:GLN:O	1.91	1.03
42:L5:61:ILE:HG23	42:L5:79:TYR:HE1	2.44	1.02
85:5:2704:A:OP2	92:5:3404:OHX:N5	1.92	1.02
8:S6:164:LYS:HB3	8:S6:167:LYS:HB3	1.42	1.01
54:M8:83:VAL:O	54:M8:85:GLY:N	2.65	1.01
16:C4:50:ALA:O	16:C4:52:ARG:N	2.35	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:M8:66:ARG:NH2	85:5:744:A:OP1	165.37	1.00
85:5:2371:G:O6	92:5:3413:OHX:N6	1.95	1.00
36:1:1233:G:H1	36:1:1255:C:H42	1.10	0.99
16:C4:85:ALA:H	16:C4:119:THR:HG22	1.37	0.99
39:L2:144:ASN:O	39:L2:160:SER:N	2.88	0.99
85:5:1337:A:OP1	92:5:3555:OHX:N1	1.95	0.99
66:O0:30:THR:HG22	66:O0:91:SER:HB2	2.60	0.98
69:O3:19:SER:OG	69:O3:20:LYS:N	4.10	0.98
44:L7:88:ARG:NH1	44:L7:91:GLY:O	2.11	0.98
36:1:1592:G:OP2	70:O4:37:LYS:NZ	1.96	0.98
1:2:744:G:OP1	11:S9:54:ARG:NH1	1.96	0.98
36:1:345:G:OP1	36:1:1429:G:N1	1.97	0.97
85:5:1953:G:O6	85:5:2094:C:N4	1.97	0.97
19:C7:27:ASP:O	19:C7:31:ASN:ND2	3.24	0.97
40:L3:30:LYS:O	92:5:3605:OHX:N1	248.41	0.97
45:L8:62:LYS:NZ	51:M5:29:GLU:OE1	4.79	0.97
85:5:2960:C:OP1	92:5:3475:OHX:N5	1.98	0.97
11:S9:17:ARG:NH1	80:6:4:C:O2'	388.93	0.97
44:L7:173:LEU:HD23	44:L7:178:ILE:HG21	1.47	0.97
80:6:1239:U:O4	92:6:1951:OHX:N1	1.97	0.96
6:S4:49:ARG:NH1	80:6:448:C:OP2	379.48	0.96
17:C5:69:GLU:OE1	92:C5:201:OHX:N4	1.98	0.96
73:O7:60:GLY:O	73:O7:62:GLY:N	3.02	0.96
44:L7:224:ILE:HG23	56:N0:36:ILE:HG12	2.57	0.96
18:C6:93:HIS:HA	18:C6:97:VAL:HG13	2.14	0.96
27:D5:38:HIS:HA	27:D5:70:LYS:HG2	9.67	0.96
74:O8:3:ARG:NH2	85:5:1824:U:OP1	147.72	0.96
56:N0:89:ASN:HD21	57:N1:156:TYR:H	1.13	0.96
57:N1:8:ARG:O	57:N1:11:THR:OG1	1.82	0.96
85:5:1365:G:OP2	92:5:3530:OHX:N3	1.99	0.95
80:6:1668:G:N2	80:6:1733:C:O2	1.99	0.95
31:D9:39:CYS:SG	94:D9:101:ZN:ZN	1.52	0.95
29:D7:56:CYS:SG	29:D7:57:GLU:N	2.37	0.95
47:M0:218:ALA:O	92:M0:301:OHX:N3	73.73	0.95
37:3:17:A:OP1	42:L5:2:ALA:N	1.99	0.95
47:M0:66:GLU:OE1	47:M0:69:ARG:NH2	1.99	0.95
70:O4:74:ARG:NH2	85:5:1639:C:OP2	200.17	0.95
85:5:539:C:H42	85:5:552:G:H1	1.14	0.95
36:1:1346:G:O6	36:1:1358:C:N4	2.00	0.95
39:L2:221:LYS:NZ	85:5:2965:U:O2	212.78	0.94
80:6:1293:U:H3	80:6:1322:A:H61	1.11	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:L5:211:LEU:HB3	42:L5:219:PHE:HB2	1.72	0.94
51:M5:49:ARG:NH2	85:5:115:A:OP1	101.38	0.94
50:M4:21:VAL:HG23	50:M4:65:LEU:HA	1.49	0.94
47:M0:148:VAL:O	47:M0:151:GLY:N	2.19	0.94
53:M7:62:ARG:NH1	85:5:412:G:OP1	159.00	0.94
36:1:1686:U:OP1	58:N2:42:LYS:NZ	2.01	0.94
39:L2:48:ILE:HD11	79:Q3:54:ILE:HG12	1.46	0.94
80:6:1370:U:H4'	80:6:1371:A:H4'	1.49	0.94
36:1:1081:U:OP1	92:1:3502:OHX:N6	1.99	0.94
59:N3:33:ASN:HD21	59:N3:63:LYS:H	1.10	0.94
43:L6:174:LEU:HD13	50:M4:117:ARG:HH12	3.68	0.94
97:5:3403:SPS:HN4	91:P:75:C:P	223.98	0.94
36:1:3182:G:OP1	52:M6:160:ARG:NH2	2.01	0.94
36:1:2303:A:OP1	77:Q1:23:ARG:NH2	2.01	0.93
79:Q3:73:THR:HG22	79:Q3:76:ALA:H	1.33	0.93
80:6:1060:U:O2'	92:6:2038:OHX:N3	2.01	0.93
25:D3:125:VAL:HG12	25:D3:126:LYS:HG3	1.68	0.93
40:L3:25:ILE:H	40:L3:25:ILE:HD13	1.31	0.93
36:1:2856:G:N7	47:M0:7:ARG:NH2	2.17	0.93
36:1:2216:G:OP1	72:O6:75:LYS:NZ	2.02	0.93
20:C8:123:ARG:HG3	20:C8:133:VAL:HG11	1.48	0.93
62:N6:36:SER:OG	62:N6:37:LYS:N	1.92	0.93
11:S9:107:ARG:NH2	11:S9:148:VAL:O	3.21	0.93
36:1:2208:A:N1	92:1:3577:OHX:N2	2.17	0.93
47:M0:175:ASN:OD1	47:M0:176:LEU:N	5.07	0.93
57:N1:54:HIS:O	57:N1:56:PHE:N	2.64	0.93
76:Q0:99:CYS:SG	76:Q0:115:CYS:SG	3.39	0.93
80:6:1698:G:N2	80:6:1699:G:N7	2.18	0.92
11:S9:126:ARG:NH1	80:6:475:A:OP2	422.73	0.92
36:1:2155:G:O2'	39:L2:227:ARG:NH2	2.02	0.92
1:2:1322:C:O2'	1:2:1324:A:N7	2.02	0.92
53:M7:29:THR:HA	53:M7:32:THR:HG23	1.49	0.92
71:O5:101:THR:HB	71:O5:104:GLN:HB2	1.51	0.92
76:Q0:91:CYS:O	76:Q0:126:LYS:NZ	2.02	0.92
85:5:2403:G:O5'	92:5:3724:OHX:N4	2.03	0.92
80:6:915:A:OP1	92:6:1925:OHX:N6	2.02	0.92
51:M5:46:ASP:OD1	51:M5:50:ARG:NH2	2.01	0.92
44:L7:211:SER:H	44:L7:242:SER:HB2	1.34	0.92
85:5:528:U:H2'	85:5:529:A:H8	1.31	0.92
40:L3:221:THR:HG22	40:L3:273:HIS:H	3.97	0.92
41:L4:92:ASN:ND2	85:5:803:C:O2'	146.83	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:953:G:OP1	65:N9:15:LYS:NZ	2.02	0.92
45:L8:161:GLU:OE2	51:M5:26:ARG:NH2	2.88	0.92
1:2:245:U:O4	92:2:1970:OHX:N6	2.02	0.91
9:S7:30:SER:HB2	9:S7:34:LEU:HB2	1.67	0.91
74:O8:58:ASP:OD2	74:O8:61:LYS:N	2.03	0.91
85:5:2234:G:O6	92:5:3465:OHX:N4	2.02	0.91
52:M6:68:ARG:NH1	85:5:2988:C:OP1	217.23	0.91
3:S1:36:SER:HA	3:S1:41:ARG:HE	3.92	0.91
85:5:272:G:OP2	92:5:3574:OHX:N6	2.03	0.91
18:C6:37:THR:O	18:C6:45:ARG:NH1	3.85	0.91
80:6:918:U:H2'	80:6:919:A:H8	1.35	0.91
41:L4:229:ASN:OD1	41:L4:231:ALA:N	2.03	0.91
53:M7:29:THR:HG22	53:M7:87:SER:OG	1.71	0.91
36:1:18:G:OP1	71:O5:81:ARG:NH2	2.04	0.91
36:1:1639:C:OP2	70:O4:74:ARG:NH2	2.04	0.90
36:1:1054:A:OP1	92:1:3687:OHX:N5	2.04	0.90
7:S5:112:ARG:HD3	18:C6:43:ILE:HD12	4.55	0.90
7:S5:92:ARG:NH2	7:S5:169:ASN:OD1	2.28	0.90
36:1:114:A:OP1	51:M5:54:LYS:NZ	2.03	0.90
50:M4:55:ARG:NH2	50:M4:76:ALA:O	2.04	0.90
41:L4:82:THR:HG23	41:L4:84:ARG:H	3.38	0.90
62:N6:2:ALA:N	85:5:213:A:OP1	80.73	0.90
43:L6:78:ARG:NH1	85:5:3272:C:OP2	246.57	0.90
1:2:749:U:H5'	1:2:750:U:H5''	1.54	0.90
24:D2:55:ASP:O	24:D2:57:ARG:N	2.92	0.90
47:M0:85:PHE:HA	47:M0:140:THR:HG22	2.00	0.90
11:S9:21:SER:HA	11:S9:24:LEU:HB2	2.89	0.90
45:L8:86:THR:O	45:L8:90:THR:OG1	2.56	0.90
46:L9:122:LYS:HD3	46:L9:123:ILE:H	4.47	0.90
26:D4:27:VAL:HG11	26:D4:35:VAL:HG11	2.37	0.90
1:2:134:U:OP1	1:2:136:C:N4	2.05	0.89
6:S4:155:LYS:NZ	80:6:244:A:OP1	344.02	0.89
21:C9:52:GLY:O	21:C9:54:PHE:N	2.05	0.89
62:N6:45:ILE:HD11	62:N6:122:LYS:HB2	1.88	0.89
68:O2:100:ILE:O	68:O2:105:ARG:NH1	2.05	0.89
11:S9:8:TYR:O	92:S9:201:OHX:N4	5.19	0.89
53:M7:64:ASN:O	53:M7:80:LYS:NZ	2.63	0.89
78:Q2:14:GLY:O	78:Q2:16:THR:N	2.06	0.89
85:5:20:A:N6	38:8:139:U:O4	2.05	0.89
71:O5:63:ARG:NH2	38:8:97:A:OP1	56.65	0.89
48:M1:148:VAL:HG12	48:M1:153:LYS:HE3	5.34	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:Q3:13:LYS:NZ	79:Q3:30:GLU:OE1	2.93	0.89
36:1:25:U:O4	92:1:3408:OHX:N3	2.06	0.89
1:2:1185:A:OP1	92:2:1989:OHX:N1	2.05	0.89
1:2:1322:C:N4	1:2:1368:G:O6	2.06	0.89
34:SR:200:ASN:ND2	34:SR:240:VAL:O	3.00	0.89
39:L2:70:ARG:HH22	85:5:2522:G:H1	173.92	0.89
40:L3:266:ARG:NH2	85:5:2392:C:O2'	208.95	0.89
39:L2:70:ARG:HD2	39:L2:72:ARG:HE	5.19	0.89
36:1:2310:U:OP1	92:1:3675:OHX:N1	2.05	0.89
38:4:38:U:O2'	71:O5:83:LYS:NZ	2.05	0.89
85:5:3102:G:O6	85:5:3132:C:N4	2.06	0.89
39:L2:117:GLU:OE2	39:L2:121:GLY:N	2.45	0.88
47:M0:193:ASP:OD2	47:M0:198:LYS:NZ	5.71	0.88
36:1:148:G:OP2	51:M5:4:TYR:OH	1.90	0.88
69:O3:90:PRO:O	69:O3:92:LYS:N	2.06	0.88
36:1:3181:C:HO2'	52:M6:164:SER:HG	0.97	0.88
42:L5:196:ARG:HA	42:L5:199:ILE:HD12	2.91	0.88
34:SR:179:LYS:NZ	34:SR:191:ASP:OD1	2.07	0.88
36:1:1329:U:O2'	36:1:1330:A:O5'	1.90	0.88
47:M0:81:GLY:O	47:M0:83:ASP:N	2.69	0.88
36:1:2807:U:O2'	36:1:2809:C:OP1	1.92	0.88
2:S0:52:LYS:HD2	23:D1:82:VAL:HA	1.53	0.88
31:D9:39:CYS:HG	94:D9:101:ZN:ZN	0.56	0.88
39:L2:238:ILE:O	39:L2:240:ALA:N	3.02	0.88
5:S3:22:ASN:OD1	5:S3:34:TYR:OH	1.91	0.88
18:C6:139:GLN:NE2	80:6:1465:C:OP1	352.48	0.88
38:4:85:G:OP2	62:N6:113:LYS:NZ	2.04	0.88
73:O7:32:LYS:NZ	38:8:111:A:OP1	130.27	0.88
46:L9:90:MET:HG2	46:L9:181:VAL:HA	1.56	0.88
54:M8:21:SER:OG	85:5:673:U:OP1	150.11	0.88
8:S6:177:ARG:NH2	80:6:143:G:N7	310.69	0.88
21:C9:102:ARG:NH2	80:6:1502:G:N7	405.21	0.88
4:S2:88:LYS:HB3	4:S2:95:ARG:HD2	4.90	0.88
36:1:1085:A:OP2	57:N1:35:LYS:NZ	2.07	0.87
40:L3:99:LEU:O	85:5:3004:C:O2'	245.57	0.87
17:C5:123:TYR:OH	20:C8:126:ARG:NH1	2.07	0.87
49:M3:64:LYS:HG3	64:N8:69:TRP:CD1	2.09	0.87
75:O9:23:LEU:HD22	75:O9:24:PRO:HD2	1.54	0.87
1:2:1439:C:H5"	1:2:1440:C:H5"	1.57	0.87
41:L4:93:MET:HE2	41:L4:93:MET:H	2.38	0.87
45:L8:163:VAL:HG13	45:L8:166:LEU:HD12	3.31	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S2:38:VAL:HG13	4:S2:39:THR:HG23	1.57	0.87
36:1:189:G:OP2	62:N6:46:LYS:NZ	2.06	0.87
36:1:2946:A:H5''	36:1:2947:G:H5'	1.57	0.87
36:1:944:C:OP1	68:O2:33:ARG:NH1	2.08	0.87
1:2:975:A:H2	1:2:995:U:H3	1.17	0.87
6:S4:104:ASP:HB3	6:S4:106:LYS:H	2.50	0.87
85:5:3274:A:H3'	85:5:3275:U:H5''	1.56	0.87
36:1:627:U:O4	92:1:3532:OHX:N5	2.08	0.86
10:S8:5:ARG:NH1	10:S8:29:LEU:O	2.08	0.86
68:O2:19:ARG:HH11	68:O2:28:VAL:HG13	2.83	0.86
8:S6:159:ARG:NH2	80:6:79:C:OP1	348.83	0.86
72:O6:5:THR:HG23	72:O6:12:ASN:HB2	1.57	0.86
2:S0:41:ARG:HH11	2:S0:45:VAL:HG21	1.39	0.86
36:1:1492:G:O3'	75:O9:48:LYS:NZ	2.09	0.86
26:D4:29:HIS:HB2	26:D4:32:ARG:HB2	3.82	0.86
8:S6:98:ARG:NH1	8:S6:101:ILE:O	2.07	0.86
36:1:2952:G:O6	92:1:3710:OHX:N2	2.09	0.86
36:1:944:C:H4'	68:O2:33:ARG:NH1	1.91	0.86
91:P:75:C:H2'	98:P:101:8AN:O4'	1.75	0.86
52:M6:179:ALA:O	52:M6:182:ASN:ND2	6.96	0.86
34:SR:282:SER:H	34:SR:285:ALA:HB3	1.44	0.86
36:1:944:C:O2'	68:O2:33:ARG:NH2	2.08	0.86
53:M7:136:ILE:O	53:M7:137:ASN:ND2	2.07	0.86
69:O3:21:ARG:NH2	85:5:2380:U:OP1	230.00	0.86
1:2:7:G:N7	4:S2:205:ARG:NH1	2.23	0.86
37:3:71:G:H2'	37:3:72:A:H8	1.40	0.86
80:6:452:A:OP2	92:6:1916:OHX:N1	2.09	0.86
18:C6:40:GLU:HA	18:C6:42:GLU:H	1.38	0.86
45:L8:156:ASP:OD2	45:L8:156:ASP:N	2.08	0.86
59:N3:54:LEU:HD21	59:N3:119:GLY:HA3	2.57	0.86
85:5:812:G:N7	92:5:3544:OHX:N2	2.23	0.85
42:L5:76:ALA:HB3	42:L5:109:THR:HG22	2.75	0.85
13:C1:96:LYS:NZ	80:6:374:U:OP1	346.12	0.85
1:2:1542:A:H5''	20:C8:135:GLY:HA3	1.58	0.85
36:1:3259:U:H5'	36:1:3259:U:H6	1.41	0.85
36:1:3310:A:OP1	53:M7:74:LYS:NZ	2.09	0.85
9:S7:107:ARG:NH1	80:6:743:U:OP2	343.43	0.85
47:M0:140:THR:HG21	47:M0:144:ASN:HD22	1.39	0.85
36:1:1011:A:OP1	47:M0:40:LYS:NZ	2.10	0.85
85:5:2922:G:O6	92:5:3649:OHX:N2	2.10	0.85
65:N9:10:HIS:O	65:N9:12:GLN:NE2	2.09	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:687:U:OP2	49:M3:36:ARG:NH2	2.09	0.85
1:2:1520:C:O2'	1:2:1523:G:O6	1.94	0.85
47:M0:157:TYR:CD1	85:5:2836:C:H4'	311.36	0.85
36:1:276:U:O2	51:M5:93:LYS:NZ	2.09	0.85
85:5:2310:U:OP1	92:5:3702:OHX:N4	2.09	0.85
12:C0:14:TYR:OH	12:C0:34:GLU:OE1	1.94	0.85
71:O5:106:LYS:NZ	85:5:152:U:OP1	66.58	0.85
37:7:112:G:OP2	92:7:205:OHX:N6	2.09	0.85
80:6:1280:C:H2'	80:6:1281:G:H8	1.40	0.85
22:D0:28:SER:OG	22:D0:111:GLY:O	2.54	0.85
46:L9:75:VAL:HA	46:L9:78:MET:HE2	1.84	0.85
97:1:3403:SPS:C6	98:P:101:8AN:H5'A	2.05	0.85
5:S3:94:ARG:HH21	35:SM:134:LEU:HD23	1.41	0.85
36:1:1345:G:N7	92:1:3496:OHX:N4	2.24	0.85
85:5:2807:U:O2'	85:5:2809:C:OP1	1.93	0.85
4:S2:218:ILE:O	4:S2:221:THR:OG1	2.95	0.85
1:2:1506:G:N7	21:C9:68:ARG:NH1	2.25	0.84
36:1:2885:C:N4	36:1:2886:U:O4	2.11	0.84
40:L3:128:LYS:NZ	85:5:3294:A:OP1	197.07	0.84
80:6:491:C:N4	80:6:496:G:O6	2.10	0.84
24:D2:6:VAL:HG13	24:D2:29:PRO:HD2	1.58	0.84
34:SR:82:SER:HG	34:SR:92:TRP:HE1	1.63	0.84
40:L3:185:GLY:O	40:L3:191:LYS:NZ	3.53	0.84
41:L4:302:ALA:HB2	54:M8:39:ARG:CZ	2.07	0.84
1:2:301:A:OP2	92:2:1942:OHX:N2	2.09	0.84
85:5:915:A:O2'	85:5:917:A:OP1	1.95	0.84
92:1:3616:OHX:N1	55:M9:14:VAL:O	2.10	0.84
8:S6:135:PRO:HB2	8:S6:141:ILE:HG12	1.58	0.84
85:5:1765:U:OP1	85:5:1765:U:H4'	1.77	0.84
56:N0:12:ARG:HB3	56:N0:24:LEU:HD23	1.86	0.84
7:S5:84:LYS:HG2	7:S5:92:ARG:HH12	1.43	0.84
34:SR:178:VAL:HB	34:SR:192:PHE:HB2	2.19	0.84
80:6:1636:C:H4'	80:6:1637:C:H5'	1.59	0.84
72:O6:51:SER:OG	72:O6:54:GLU:OE1	2.86	0.84
11:S9:109:LEU:HB2	11:S9:146:PHE:HB3	1.59	0.84
11:S9:133:HIS:NE2	80:6:513:U:OP1	446.56	0.84
40:L3:41:VAL:HA	40:L3:185:GLY:HA3	1.60	0.84
41:L4:89:ALA:O	41:L4:91:GLY:N	2.11	0.84
44:L7:121:LYS:HB2	57:N1:133:ALA:HB3	1.59	0.84
36:1:336:A:OP2	62:N6:9:SER:OG	1.96	0.84
97:1:3403:SPS:C6	98:P:101:8AN:C5'	2.56	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:C9:39:THR:OG1	21:C9:43:ASN:ND2	2.09	0.84
45:L8:148:ALA:HA	45:L8:201:THR:HG22	1.58	0.84
56:N0:91:TYR:OH	56:N0:93:GLU:OE2	1.95	0.84
70:O4:58:ARG:HG3	70:O4:59:PRO:HD2	3.80	0.84
7:S5:185:ARG:NH1	80:6:1471:A:OP1	331.93	0.84
21:C9:37:VAL:HG12	21:C9:39:THR:H	3.77	0.83
85:5:1310:G:O6	92:5:3527:OHX:N4	2.11	0.83
41:L4:283:THR:HG22	41:L4:285:ASP:H	1.42	0.83
53:M7:69:ARG:HG2	53:M7:79:THR:HG22	3.17	0.83
74:O8:31:LEU:HA	74:O8:37:PRO:HA	1.59	0.83
85:5:2444:C:H42	85:5:2503:G:H1	1.22	0.83
85:5:3276:G:OP2	85:5:3276:G:H2'	1.78	0.83
38:8:79:A:H3'	38:8:80:A:C8	2.14	0.83
63:N7:102:GLU:H	63:N7:107:ARG:HH21	2.53	0.83
1:2:1185:A:OP2	92:2:1989:OHX:N2	2.11	0.83
54:M8:36:LEU:O	54:M8:40:THR:OG1	1.96	0.83
77:Q1:2:ARG:HG3	77:Q1:4:LYS:H	2.63	0.83
39:L2:79:ASN:ND2	39:L2:166:ILE:O	3.17	0.83
36:1:3006:A:OP1	52:M6:149:TYR:OH	1.96	0.83
85:5:2402:A:OP2	92:5:3608:OHX:N3	2.11	0.83
36:1:944:C:H4'	68:O2:33:ARG:HH12	1.42	0.83
36:1:3090:U:OP1	40:L3:270:ARG:NH2	2.10	0.83
41:L4:145:ILE:O	92:L4:401:OHX:N5	2.11	0.83
78:Q2:61:LYS:NZ	78:Q2:61:LYS:HB3	1.94	0.83
38:4:70:G:O6	92:O7:102:OHX:N4	2.11	0.83
61:N5:54:TYR:OH	38:8:60:U:OP1	63.97	0.83
85:5:1345:G:N2	85:5:1360:C:C2	2.47	0.83
85:5:2996:U:OP1	85:5:2996:U:H4'	1.79	0.83
80:6:1163:A:N3	80:6:1613:U:O2'	2.11	0.83
4:S2:140:ARG:NH1	23:D1:10:GLU:OE1	7.24	0.83
41:L4:219:LEU:O	41:L4:221:ASN:N	2.22	0.83
34:SR:26:SER:OG	34:SR:75:ALA:O	2.44	0.83
36:1:2631:U:H2'	36:1:2632:G:H8	1.41	0.83
36:1:438:A:O2'	36:1:495:G:O2'	1.94	0.83
36:1:768:C:OP1	49:M3:186:ARG:NH2	2.10	0.83
39:L2:70:ARG:HD2	39:L2:72:ARG:NE	5.28	0.83
42:L5:22:ARG:NH1	42:L5:28:THR:OG1	4.58	0.83
85:5:3055:U:O2'	85:5:3057:U:OP1	1.94	0.82
61:N5:105:VAL:HG11	61:N5:126:LEU:HD22	1.58	0.82
66:O0:45:ALA:O	66:O0:48:THR:OG1	4.56	0.82
1:2:320:U:H3'	1:2:321:C:H5''	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:408:A:OP2	92:5:3601:OHX:N6	2.12	0.82
85:5:528:U:H2'	85:5:529:A:C8	2.14	0.82
16:C4:132:ARG:HB2	80:6:1787:C:OP2	293.82	0.82
80:6:825:U:HO2'	80:6:826:U:H6	1.27	0.82
80:6:826:U:O4	92:6:1920:OHX:N3	2.12	0.82
43:L6:51:ARG:NH1	50:M4:114:ASP:OD2	2.12	0.82
80:6:479:C:O2	80:6:510:G:N2	2.13	0.82
21:C9:49:ASP:HB3	21:C9:53:TRP:HB3	1.60	0.82
53:M7:120:ASN:OD1	53:M7:120:ASN:N	2.86	0.82
1:2:1512:C:OP1	7:S5:112:ARG:NH1	2.11	0.82
36:1:1678:G:O6	58:N2:74:LYS:NZ	2.12	0.82
85:5:1346:G:H1	85:5:1358:C:H42	1.27	0.82
57:N1:87:LYS:NZ	85:5:2728:G:N7	212.13	0.82
71:O5:49:LYS:NZ	38:8:63:G:O2'	49.31	0.82
40:L3:361:THR:H	40:L3:371:GLN:HE22	3.12	0.82
64:N8:65:GLN:O	64:N8:67:HIS:N	2.11	0.82
1:2:838:A:C2	1:2:840:U:H1'	2.15	0.82
41:L4:181:VAL:O	41:L4:182:LEU:HB2	1.77	0.82
79:Q3:42:CYS:HB2	79:Q3:60:CYS:SG	4.37	0.82
85:5:674:G:O6	85:5:788:C:N4	2.11	0.82
62:N6:112:ASP:HB2	62:N6:115:ARG:HB2	1.60	0.82
10:S8:120:THR:OG1	92:S8:301:OHX:N1	3.64	0.82
36:1:2725:U:H5''	36:1:2726:C:OP2	1.80	0.82
1:2:1341:G:H2'	1:2:1342:C:C6	2.15	0.82
80:6:158:U:O2'	80:6:160:C:OP2	1.98	0.82
55:M9:13:SER:OG	55:M9:38:ARG:NH1	4.02	0.82
34:SR:164:ASP:OD2	34:SR:166:SER:OG	1.98	0.82
22:D0:20:ILE:HD12	22:D0:100:VAL:HG21	3.63	0.82
23:D1:64:GLU:HG3	29:D7:3:LEU:HG	1.92	0.82
1:2:1222:U:O4	92:2:1924:OHX:N4	2.12	0.82
54:M8:38:ARG:NH2	85:5:1348:U:OP2	187.87	0.82
43:L6:69:PHE:N	43:L6:142:ASP:OD2	2.13	0.82
71:O5:85:THR:HB	71:O5:88:LEU:HB2	2.40	0.82
36:1:695:C:OP1	41:L4:271:LYS:NZ	2.12	0.82
80:6:67:A:O2'	80:6:69:G:OP1	1.97	0.82
71:O5:76:GLN:O	71:O5:81:ARG:NH1	2.12	0.82
51:M5:157:LYS:NZ	85:5:58:G:OP1	85.29	0.81
40:L3:171:LEU:O	92:L3:402:OHX:N6	2.12	0.81
41:L4:62:ALA:HB1	41:L4:76:ARG:O	1.80	0.81
47:M0:10:ARG:NH2	47:M0:56:GLU:OE1	2.13	0.81
50:M4:135:LEU:HD11	52:M6:178:VAL:HG22	1.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:1596:C:O2'	85:5:1696:A:N3	2.13	0.81
25:D3:70:LYS:HB3	25:D3:93:LEU:HD22	1.63	0.81
46:L9:149:ASN:N	46:L9:149:ASN:OD1	2.48	0.81
51:M5:168:GLY:O	51:M5:170:LYS:N	2.94	0.81
57:N1:103:GLN:HE21	57:N1:104:GLU:N	1.77	0.81
36:1:991:G:O2'	57:N1:41:ASP:OD2	1.98	0.81
2:S0:108:THR:OG1	2:S0:135:GLU:OE1	2.78	0.81
85:5:2568:C:N4	85:5:2574:G:O6	2.14	0.81
1:2:850:G:OP2	15:C3:3:ARG:NH1	2.14	0.81
80:6:561:G:N2	80:6:584:C:O2	2.13	0.81
47:M0:156:ARG:NH1	47:M0:163:GLN:O	2.97	0.81
91:P:75:C:H5"	98:P:101:8AN:O2P	1.80	0.81
1:2:414:C:O2	1:2:419:G:N2	2.13	0.81
1:2:1225:A:OP1	17:C5:59:LYS:NZ	2.13	0.81
40:L3:37:ARG:HG2	40:L3:187:SER:H	1.42	0.81
56:N0:66:GLU:OE1	56:N0:99:ARG:N	2.12	0.81
67:O1:41:LYS:NZ	67:O1:47:ASP:OD1	2.29	0.81
36:1:2896:A:OP1	76:Q0:102:ARG:NE	2.11	0.81
36:1:533:A:O2'	36:1:535:G:OP2	1.97	0.81
28:D6:87:ARG:NH2	28:D6:94:ASN:O	2.13	0.81
47:M0:169:LYS:O	47:M0:170:LYS:HD2	5.32	0.81
36:1:224:C:O2	62:N6:103:LYS:NZ	2.13	0.81
1:2:1190:C:H42	1:2:1439:C:H41	1.27	0.81
59:N3:2:SER:N	59:N3:56:ASP:OD1	5.74	0.81
29:D7:70:LYS:NZ	80:6:1050:G:OP1	354.93	0.81
3:S1:111:ARG:HB3	28:D6:68:TYR:HD2	1.46	0.81
41:L4:302:ALA:HB2	54:M8:39:ARG:NH2	2.01	0.81
73:O7:66:TYR:OH	73:O7:73:ARG:NH2	3.63	0.81
36:1:700:C:OP1	49:M3:65:TYR:OH	1.99	0.81
19:C7:7:LYS:NZ	80:6:1316:G:OP2	405.70	0.81
24:D2:15:ASN:HD21	24:D2:71:LYS:HG3	3.76	0.81
3:S1:109:LYS:O	3:S1:112:SER:OG	2.14	0.81
36:1:2971:A:N7	91:P:74:C:O5'	2.13	0.81
58:N2:103:TYR:OH	85:5:1677:G:OP2	146.22	0.81
51:M5:188:ARG:NH2	85:5:31:C:OP2	121.27	0.81
56:N0:11:GLY:HA2	56:N0:59:VAL:HG23	1.62	0.81
63:N7:25:ILE:HA	63:N7:43:VAL:HG12	1.67	0.81
36:1:3165:A:H61	36:1:3285:C:H42	1.29	0.81
1:2:1085:G:OP1	24:D2:76:SER:OG	1.99	0.81
85:5:1001:G:N2	85:5:1041:U:OP1	2.13	0.81
85:5:2677:G:OP2	92:5:3656:OHX:N5	2.13	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:1307:U:O4	80:6:1318:G:N2	2.13	0.81
80:6:838:G:O6	92:6:1955:OHX:N1	2.14	0.81
16:C4:13:VAL:HG13	16:C4:77:THR:H	1.43	0.81
17:C5:68:PRO:O	92:C5:201:OHX:N5	7.37	0.81
49:M3:165:SER:O	49:M3:167:PHE:N	2.14	0.81
51:M5:13:LYS:O	51:M5:16:SER:OG	1.99	0.81
52:M6:39:GLU:HG2	52:M6:40:GLU:HG2	1.62	0.81
69:O3:13:HIS:NE2	69:O3:28:SER:OG	2.23	0.81
1:2:9:U:O4	92:2:2038:OHX:N6	2.13	0.80
80:6:27:U:H2'	80:6:28:A:H8	1.44	0.80
26:D4:65:GLY:N	80:6:532:U:OP1	428.57	0.80
27:D5:56:THR:H	27:D5:103:ARG:HH11	1.27	0.80
71:O5:78:LYS:HA	71:O5:81:ARG:HD2	1.63	0.80
72:O6:28:TYR:O	92:5:3692:OHX:N2	104.17	0.80
80:6:700:C:O2	80:6:738:G:N2	2.14	0.80
41:L4:143:GLU:O	92:L4:401:OHX:N5	2.14	0.80
53:M7:53:ASP:O	92:M7:201:OHX:N3	2.14	0.80
61:N5:48:SER:OG	61:N5:49:LYS:N	3.12	0.80
36:1:2818:U:H6	36:1:2818:U:H5'	1.46	0.80
85:5:801:A:O2'	92:5:3529:OHX:N1	2.14	0.80
36:1:2854:U:OP1	47:M0:61:SER:OG	1.99	0.80
56:N0:141:LYS:HA	56:N0:144:LEU:HD12	1.62	0.80
68:O2:34:LYS:O	68:O2:36:LYS:NZ	2.14	0.80
33:E1:126:CYS:HB3	33:E1:130:VAL:HG21	2.83	0.80
3:S1:108:ASP:N	3:S1:108:ASP:OD1	3.14	0.80
36:1:1171:G:N7	92:1:3494:OHX:N5	2.30	0.80
80:6:1368:G:O6	92:6:1939:OHX:N4	2.14	0.80
80:6:1543:A:N6	80:6:1568:C:O2	2.15	0.80
40:L3:95:THR:O	40:L3:98:GLY:N	2.14	0.80
42:L5:129:TYR:OH	42:L5:175:HIS:O	1.98	0.80
47:M0:24:ARG:O	47:M0:26:VAL:HG13	1.82	0.80
49:M3:166:ALA:HB1	64:N8:147:LEU:HD21	2.24	0.80
36:1:1134:G:O2'	36:1:2642:A:N3	2.12	0.80
36:1:668:G:O6	36:1:794:U:N3	2.13	0.80
85:5:2759:U:H5''	85:5:2760:C:H5'	1.60	0.80
16:C4:107:ARG:HH21	16:C4:107:ARG:HB2	2.74	0.80
26:D4:20:ARG:HE	26:D4:22:GLN:HE21	4.35	0.80
46:L9:171:ASP:OD2	46:L9:173:ARG:NH1	2.14	0.80
72:O6:98:ARG:HD2	72:O6:98:ARG:H	1.47	0.80
75:O9:28:ARG:HH11	75:O9:36:ARG:HH11	6.75	0.80
36:1:1119:C:OP2	92:1:3490:OHX:N1	2.14	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:408:A:OP1	92:1:3589:OHX:N3	2.15	0.80
20:C8:57:ARG:NH1	80:6:1534:G:OP2	341.17	0.80
36:1:1382:G:OP2	41:L4:188:ARG:NH1	2.14	0.80
48:M1:155:THR:HG1	48:M1:158:ASP:H	1.29	0.80
1:2:837:U:O4	55:M9:173:ARG:NH1	2.14	0.80
57:N1:88:ARG:NH2	65:N9:31:SER:OG	2.14	0.80
71:O5:85:THR:HG22	71:O5:87:ALA:H	1.51	0.80
38:4:34:U:O2'	38:4:35:C:OP2	1.99	0.80
64:N8:12:ARG:NH1	85:5:1431:G:OP2	147.33	0.80
46:L9:4:ILE:N	56:N0:142:GLN:OE1	2.63	0.80
70:O4:37:LYS:NZ	85:5:1591:G:OP1	159.59	0.80
1:2:1555:G:H1'	7:S5:185:ARG:HH12	1.47	0.80
36:1:1854:C:OP2	92:1:3566:OHX:N5	2.14	0.80
45:L8:65:LEU:HD12	51:M5:25:VAL:HG13	2.11	0.80
2:S0:24:LEU:O	2:S0:163:ASN:ND2	2.15	0.80
2:S0:31:VAL:HG12	2:S0:33:GLN:H	1.46	0.80
36:1:3058:U:OP1	67:O1:28:ARG:NH2	2.15	0.80
37:3:71:G:H2'	37:3:72:A:C8	2.17	0.80
80:6:1097:U:H4'	80:6:1098:U:H5'	1.62	0.80
18:C6:82:ARG:HH12	18:C6:114:ARG:HG3	3.62	0.80
44:L7:44:ILE:HD13	44:L7:180:SER:HB3	1.62	0.80
10:S8:10:LYS:NZ	80:6:339:C:OP2	283.53	0.79
46:L9:5:GLN:OE1	46:L9:6:THR:N	2.72	0.79
4:S2:179:VAL:O	4:S2:198:THR:OG1	2.00	0.79
4:S2:56:ILE:HG23	4:S2:61:LEU:HB2	1.66	0.79
34:SR:112:SER:OG	34:SR:155:ARG:NH1	3.01	0.79
17:C5:130:ARG:NH2	35:SM:65:THR:O	3.22	0.79
78:Q2:61:LYS:HB3	78:Q2:61:LYS:HZ2	1.47	0.79
4:S2:153:SER:OG	4:S2:154:LEU:N	2.88	0.79
36:1:883:A:H5'	53:M7:133:HIS:HA	1.63	0.79
3:S1:157:GLN:O	3:S1:159:SER:N	2.14	0.79
4:S2:173:PRO:O	4:S2:176:SER:OG	3.14	0.79
36:1:2960:C:H2'	36:1:2961:G:C8	2.16	0.79
13:C1:4:GLU:HG2	13:C1:5:LEU:HG	1.63	0.79
46:L9:140:VAL:HG22	46:L9:143:GLU:HB2	2.18	0.79
59:N3:20:GLY:HA2	59:N3:35:TYR:CE1	2.17	0.79
36:1:2960:C:H2'	36:1:2961:G:H8	1.46	0.79
36:1:3060:C:OP1	92:1:3572:OHX:N4	2.14	0.79
45:L8:193:LYS:NZ	85:5:145:G:OP2	113.61	0.79
17:C5:18:ARG:NH1	20:C8:91:ASP:O	3.96	0.79
36:1:3049:A:C2	40:L3:75:ALA:HB2	2.17	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:D4:3:ASP:O	26:D4:5:VAL:N	2.16	0.79
52:M6:121:PRO:HA	52:M6:124:LEU:HD22	2.75	0.79
63:N7:95:VAL:HG21	63:N7:113:VAL:HG11	1.73	0.79
67:O1:11:GLU:OE2	67:O1:74:ARG:NH2	2.24	0.79
56:N0:112:ALA:HB2	85:5:1321:G:N2	295.91	0.79
80:6:1213:G:O2'	80:6:1244:A:N6	2.16	0.79
22:D0:27:THR:HB	22:D0:88:LYS:HG3	1.62	0.79
40:L3:152:LYS:HG2	40:L3:192:VAL:HG11	1.65	0.79
58:N2:56:VAL:HG22	58:N2:65:VAL:HG22	1.64	0.79
36:1:2157:G:N2	36:1:2177:G:O2'	2.15	0.79
36:1:2916:U:H1'	59:N3:44:SER:HB3	1.65	0.79
80:6:837:G:O6	92:6:1955:OHX:N1	2.15	0.79
38:8:1:A:OP1	92:8:201:OHX:N5	2.15	0.79
23:D1:74:GLN:HG2	23:D1:79:LEU:HB2	3.98	0.79
41:L4:93:MET:HE2	41:L4:93:MET:N	3.17	0.79
73:O7:88:ALA:O	92:O7:102:OHX:N1	2.16	0.79
36:1:1718:G:N2	36:1:1726:C:O2	2.15	0.79
1:2:1471:G:H3'	1:2:1498:A:H61	1.48	0.79
39:L2:29:LEU:HA	39:L2:76:PHE:HE1	1.48	0.79
6:S4:159:THR:HB	6:S4:227:VAL:HG23	1.64	0.79
36:1:640:U:OP1	64:N8:21:ARG:NH2	2.14	0.79
1:2:405:C:OP1	92:2:1920:OHX:N4	2.15	0.79
46:L9:23:ARG:O	46:L9:24:ILE:HD13	4.23	0.79
36:1:3107:U:OP1	76:Q0:114:LYS:NZ	2.15	0.78
1:2:913:A:OP1	28:D6:32:LYS:NZ	2.15	0.78
1:2:941:U:O4	15:C3:12:SER:OG	2.01	0.78
85:5:567:G:O6	92:5:3628:OHX:N2	2.16	0.78
80:6:1018:U:H2'	80:6:1019:A:C8	2.18	0.78
80:6:647:G:N2	80:6:687:G:H22	1.80	0.78
36:1:2794:G:O2'	36:1:2795:U:OP2	1.99	0.78
85:5:712:G:H2'	85:5:713:U:C6	2.17	0.78
41:L4:181:VAL:HG12	41:L4:182:LEU:H	1.48	0.78
54:M8:178:ARG:HE	64:N8:50:PRO:HG2	1.47	0.78
5:S3:70:THR:HG22	5:S3:86:LEU:HD13	2.36	0.78
36:1:3066:U:O4	92:1:3671:OHX:N3	2.17	0.78
36:1:3224:G:O6	92:1:3430:OHX:N4	2.16	0.78
85:5:2402:A:O2'	92:5:3724:OHX:N3	2.17	0.78
37:7:80:G:O6	37:7:100:C:N4	2.14	0.78
53:M7:10:ASN:O	53:M7:14:SER:OG	2.00	0.78
1:2:684:U:H3	1:2:720:A:H61	1.28	0.78
41:L4:292:SER:HB3	41:L4:295:ILE:HB	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
71:O5:101:THR:HG22	71:O5:103:LYS:H	1.49	0.78
44:L7:151:ARG:NH1	44:L7:244:ASN:O	3.15	0.78
91:P:75:C:H2'	98:P:101:8AN:C1'	2.14	0.78
5:S3:141:LYS:NZ	80:6:1275:A:N3	390.40	0.78
21:C9:119:LYS:NZ	80:6:1369:U:OP1	440.27	0.78
63:N7:73:LYS:HD2	63:N7:74:VAL:O	2.61	0.78
71:O5:88:LEU:O	71:O5:90:ARG:N	2.17	0.78
48:M1:41:SER:O	48:M1:75:LYS:NZ	2.13	0.78
64:N8:103:ASP:OD2	64:N8:106:ALA:N	2.15	0.78
7:S5:94:THR:HG22	7:S5:114:ILE:HG13	1.64	0.78
10:S8:36:THR:HG21	10:S8:173:PRO:HB2	2.32	0.78
36:1:980:A:H2'	36:1:981:U:N1	1.97	0.78
85:5:1438:U:H2'	85:5:1439:U:H6	1.47	0.78
80:6:1238:A:OP2	92:6:1951:OHX:N1	2.17	0.78
36:1:560:G:OP1	50:M4:83:LYS:NZ	2.17	0.78
36:1:1915:A:H5''	55:M9:84:THR:HG22	1.66	0.78
85:5:2818:U:H6	85:5:2818:U:H5'	1.47	0.78
56:N0:92:LYS:NZ	56:N0:109:ASP:OD2	2.13	0.78
36:1:819:U:OP1	73:O7:10:LYS:NZ	2.16	0.78
1:2:159:U:O2'	8:S6:87:ARG:NH1	2.17	0.78
36:1:943:U:O2	36:1:1431:G:H5''	1.84	0.78
36:1:1791:C:H2'	36:1:1792:C:C6	2.18	0.78
36:1:2137:U:OP2	36:1:2142:A:N6	2.15	0.78
36:1:1196:C:O2	92:3:204:OHX:N2	2.17	0.78
16:C4:112:ILE:HG22	16:C4:113:GLY:H	3.34	0.78
25:D3:96:VAL:HG12	25:D3:127:VAL:HG21	5.02	0.78
36:1:2177:G:OP2	39:L2:128:ARG:NH1	2.17	0.78
39:L2:42:ARG:HD2	39:L2:87:PHE:CD1	3.17	0.78
45:L8:221:ASN:HA	45:L8:225:LYS:HD2	5.36	0.78
46:L9:47:LYS:HB2	50:M4:7:VAL:HB	1.65	0.78
63:N7:46:ILE:HG12	63:N7:49:TYR:CE1	3.48	0.78
11:S9:34:PHE:HD1	11:S9:111:THR:HG21	2.09	0.78
36:1:73:C:N3	49:M3:59:ARG:NH1	2.31	0.77
1:2:619:A:HO2'	1:2:1123:G:HO2'	1.32	0.77
85:5:2218:G:N2	85:5:2227:C:O2	2.17	0.77
85:5:703:G:O2'	85:5:787:G:H4'	1.83	0.77
13:C1:76:VAL:HG12	13:C1:85:VAL:O	2.68	0.77
40:L3:290:ASP:OD2	40:L3:292:ALA:N	5.12	0.77
67:O1:20:LEU:O	67:O1:28:ARG:NH2	3.22	0.77
6:S4:19:LEU:HD11	6:S4:108:ARG:HD2	2.16	0.77
36:1:1108:U:H2'	36:1:1109:U:H6	1.47	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3346:U:H3	36:1:3359:A:H61	1.33	0.77
1:2:778:U:OP1	24:D2:82:LYS:NZ	2.17	0.77
85:5:2993:G:H2'	85:5:3142:A:N6	1.99	0.77
92:5:3706:OHX:N1	92:8:210:OHX:N1	2.32	0.77
40:L3:220:VAL:O	40:L3:334:ARG:NH1	2.42	0.77
4:S2:101:VAL:HG22	4:S2:115:ILE:HG23	1.87	0.77
42:L5:277:LEU:HD11	37:7:62:U:H5''	338.65	0.77
60:N4:6:ASP:HB3	60:N4:10:GLY:H	2.09	0.77
49:M3:64:LYS:HG3	64:N8:69:TRP:CG	2.20	0.77
36:1:3389:U:O2'	36:1:3390:G:OP2	2.02	0.77
36:1:409:A:OP2	92:1:3589:OHX:N6	2.17	0.77
80:6:53:G:H2'	80:6:54:C:O4'	1.83	0.77
24:D2:57:ARG:NH2	29:D7:26:GLN:OE1	2.18	0.77
40:L3:196:ARG:O	40:L3:196:ARG:NE	2.18	0.77
2:S0:117:GLU:O	4:S2:40:LYS:NZ	2.16	0.77
1:2:1477:C:H2'	1:2:1478:C:H6	1.49	0.77
40:L3:53:MET:HE2	40:L3:77:THR:HG22	1.65	0.77
47:M0:174:THR:OG1	47:M0:175:ASN:O	5.04	0.77
41:L4:300:ARG:O	54:M8:39:ARG:NH1	2.17	0.77
63:N7:78:ASN:OD1	66:O0:35:ARG:NH2	2.16	0.77
35:SM:23:LYS:HD2	35:SM:23:LYS:H	1.50	0.77
34:SR:156:VAL:HA	34:SR:169:ILE:HG22	2.06	0.77
85:5:1329:U:O2'	85:5:1330:A:OP1	2.01	0.77
57:N1:3:LYS:NZ	85:5:2642:A:OP2	233.39	0.77
80:6:1230:A:H2	80:6:1255:G:H21	1.28	0.77
30:D8:22:ARG:NH1	80:6:1619:C:O2	339.11	0.77
5:S3:75:LYS:HB3	12:C0:22:VAL:HG22	5.10	0.77
52:M6:188:SER:O	52:M6:192:LYS:HG2	2.20	0.77
59:N3:87:ARG:HH22	59:N3:137:VAL:HG22	1.59	0.77
63:N7:36:HIS:CD2	63:N7:74:VAL:HG11	2.52	0.77
4:S2:45:VAL:HG21	4:S2:68:ILE:HG23	1.65	0.77
85:5:2537:U:O2'	85:5:2538:U:O4'	2.03	0.77
1:2:1483:C:OP1	21:C9:122:ARG:NH2	2.18	0.77
36:1:696:C:OP1	41:L4:272:VAL:HG23	1.85	0.77
63:N7:26:VAL:HG11	63:N7:96:VAL:HB	1.65	0.77
64:N8:3:SER:O	64:N8:6:THR:HG22	3.60	0.77
74:O8:17:ARG:NH2	85:5:1824:U:O3'	137.03	0.77
36:1:1662:G:O6	92:1:3422:OHX:N2	2.18	0.77
36:1:76:G:O2'	49:M3:100:ARG:NH1	2.18	0.77
1:2:1750:G:OP2	1:2:1753:U:O2'	2.03	0.77
1:2:777:U:O2'	1:2:778:U:O2	2.03	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:738:A:H2'	85:5:739:G:H8	1.50	0.77
58:N2:20:SER:OG	58:N2:21:SER:N	2.65	0.77
10:S8:171:SER:OG	10:S8:178:ARG:O	3.82	0.77
85:5:2840:C:OP1	92:5:3635:OHX:N3	2.17	0.77
42:L5:107:ARG:NH2	42:L5:119:TYR:O	2.18	0.77
45:L8:146:LYS:NZ	45:L8:173:MET:O	3.68	0.77
48:M1:90:GLN:HG2	48:M1:170:ASP:HB2	1.66	0.77
51:M5:84:PRO:HA	51:M5:87:GLN:HG3	1.67	0.77
54:M8:176:ARG:NH1	64:N8:46:ASP:OD2	2.18	0.77
1:2:68:A:OP1	8:S6:160:ARG:NH2	2.16	0.77
9:S7:98:ILE:N	80:6:694:U:O2	367.92	0.77
85:5:1066:G:OP1	92:5:3733:OHX:N2	2.19	0.76
55:M9:74:ARG:NH1	85:5:1942:U:OP2	208.95	0.76
47:M0:47:PRO:HB3	47:M0:171:TRP:CZ2	2.32	0.76
56:N0:89:ASN:HD21	57:N1:156:TYR:N	1.83	0.76
1:2:154:G:OP1	8:S6:2:LYS:NZ	2.18	0.76
1:2:723:A:H2'	1:2:724:C:H5''	1.67	0.76
85:5:652:G:OP2	92:5:3671:OHX:N4	2.17	0.76
80:6:271:A:C2	80:6:285:G:C6	2.73	0.76
27:D5:71:ILE:HG21	27:D5:76:ALA:HB2	3.44	0.76
45:L8:75:ILE:O	45:L8:77:GLN:N	2.18	0.76
48:M1:133:ARG:HD3	48:M1:152:HIS:CD2	3.83	0.76
36:1:2554:A:N7	79:Q3:62:LYS:NZ	2.29	0.76
85:5:675:C:O2'	85:5:679:U:OP1	2.02	0.76
80:6:1227:A:H4'	80:6:1228:G:H5'	1.67	0.76
80:6:351:C:OP1	80:6:630:A:O2'	2.02	0.76
41:L4:352:ALA:HB2	44:L7:71:ALA:O	2.07	0.76
42:L5:61:ILE:HG23	42:L5:79:TYR:CE1	2.72	0.76
46:L9:65:VAL:O	46:L9:68:LEU:N	2.19	0.76
49:M3:94:GLY:HA3	49:M3:119:TYR:OH	2.78	0.76
68:O2:97:ALA:HB3	68:O2:100:ILE:HG12	1.65	0.76
70:O4:96:GLU:HA	70:O4:99:LYS:HD2	4.17	0.76
36:1:1759:C:N4	36:1:1766:G:O6	2.13	0.76
3:S1:116:LYS:NZ	80:6:1799:U:OP2	329.74	0.76
80:6:973:A:H2'	80:6:974:A:H8	1.50	0.76
22:D0:50:LEU:HD21	22:D0:95:ALA:HB2	1.65	0.76
85:5:2211:U:H5	85:5:2234:G:H1	1.31	0.76
17:C5:43:ARG:NH1	80:6:1553:G:O6	398.15	0.76
28:D6:38:ARG:HH21	28:D6:83:ILE:HG13	1.49	0.76
42:L5:122:VAL:O	42:L5:124:GLU:N	4.47	0.76
52:M6:157:GLU:OE2	52:M6:160:ARG:NH1	2.18	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Q2:28:TYR:HB3	78:Q2:69:VAL:HB	1.93	0.76
6:S4:259:GLN:OE1	6:S4:260:GLY:N	3.39	0.76
10:S8:120:THR:O	92:S8:301:OHX:N4	6.00	0.76
52:M6:160:ARG:NH2	85:5:3182:G:OP1	279.24	0.76
40:L3:290:ASP:OD2	40:L3:291:GLU:N	3.74	0.76
48:M1:49:LYS:HB3	48:M1:62:ASN:HA	1.67	0.76
36:1:1844:C:O2	73:O7:9:GLY:HA2	1.86	0.76
78:Q2:101:GLY:O	78:Q2:102:GLN:NE2	6.36	0.76
11:S9:143:ILE:HD13	80:6:767:U:H5	421.69	0.76
1:2:158:U:O2'	1:2:160:C:OP2	2.04	0.76
39:L2:70:ARG:NH2	85:5:2522:G:H1	174.10	0.76
8:S6:98:ARG:NH2	8:S6:101:ILE:O	2.92	0.76
36:1:1040:A:N3	47:M0:198:LYS:NZ	2.33	0.76
42:L5:140:ARG:NH2	85:5:1080:A:OP2	228.73	0.76
39:L2:226:SER:O	39:L2:228:GLY:N	3.34	0.76
36:1:2392:C:O2'	40:L3:266:ARG:NH2	2.18	0.76
41:L4:26:PHE:HD1	41:L4:130:ALA:HB2	3.06	0.76
41:L4:292:SER:OG	41:L4:293:SER:N	2.16	0.76
45:L8:42:PRO:HG2	45:L8:44:ARG:HE	4.84	0.76
77:Q1:24:SER:O	77:Q1:24:SER:OG	2.58	0.76
5:S3:135:GLU:HB3	5:S3:187:LYS:HB3	1.67	0.76
96:1:3402:LEU:C	98:P:101:8AN:HN3'	1.88	0.76
85:5:2611:U:O4	92:5:3675:OHX:N6	2.19	0.76
85:5:3066:U:O4	92:5:3604:OHX:N6	2.19	0.76
80:6:250:C:H2'	80:6:251:A:H8	1.49	0.76
44:L7:147:LEU:HD22	44:L7:205:PHE:HD1	3.04	0.76
55:M9:27:ASN:O	92:M9:201:OHX:N6	2.19	0.76
59:N3:25:CYS:SG	59:N3:26:ALA:N	2.59	0.76
62:N6:35:LEU:HD12	62:N6:45:ILE:HG22	2.06	0.76
36:1:3026:G:O6	92:1:3476:OHX:N4	2.18	0.76
36:1:618:C:H5'	53:M7:169:THR:HG22	1.68	0.76
1:2:1525:G:N2	1:2:1552:A:OP2	2.18	0.76
1:2:56:U:H4'	1:2:57:G:H5'	1.67	0.76
70:O4:58:ARG:NH1	85:5:1592:G:OP1	160.38	0.76
40:L3:11:HIS:ND1	40:L3:234:GLY:O	2.19	0.76
40:L3:341:SER:OG	40:L3:342:LEU:N	2.13	0.76
42:L5:40:HIS:CE1	42:L5:42:ALA:HB3	2.56	0.76
59:N3:33:ASN:ND2	59:N3:63:LYS:H	1.84	0.76
36:1:1230:G:H1	36:1:1279:C:H42	1.32	0.75
85:5:2871:G:O5'	92:5:3724:OHX:N4	2.19	0.75
80:6:898:A:N1	80:6:911:U:O2'	2.19	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:145:ILE:HG22	41:L4:173:GLY:HA3	1.67	0.75
67:O1:8:VAL:O	67:O1:9:THR:OG1	3.86	0.75
1:2:121:U:O2'	6:S4:33:ALA:O	2.04	0.75
11:S9:110:GLN:HE22	11:S9:126:ARG:HG2	1.51	0.75
36:1:3246:G:O6	92:1:3641:OHX:N4	2.19	0.75
36:1:964:G:N2	64:N8:40:HIS:O	2.19	0.75
80:6:1696:G:O2'	80:6:1698:G:N7	2.19	0.75
67:O1:58:ALA:HA	67:O1:61:LYS:HD3	4.31	0.75
5:S3:21:LEU:HD22	5:S3:25:PHE:HE2	1.51	0.75
8:S6:10:ASN:ND2	8:S6:127:THR:O	2.19	0.75
36:1:691:A:N1	38:4:28:C:O2'	2.19	0.75
72:O6:36:ARG:NH1	85:5:116:A:OP1	108.80	0.75
19:C7:45:ARG:HG2	19:C7:49:LYS:HD2	4.48	0.75
27:D5:60:VAL:HG23	27:D5:101:TYR:HB2	1.67	0.75
32:E0:55:ARG:HH11	32:E0:58:PRO:HB3	1.50	0.75
46:L9:86:TYR:CE2	46:L9:151:VAL:HG22	2.21	0.75
91:P:75:C:C2'	98:P:101:8AN:O4'	2.35	0.75
36:1:2849:C:OP2	92:1:3721:OHX:N2	2.19	0.75
85:5:3287:U:H2'	85:5:3288:G:H5'	1.68	0.75
80:6:383:G:N7	92:6:2000:OHX:N5	2.34	0.75
44:L7:88:ARG:HA	44:L7:134:VAL:HG12	2.63	0.75
45:L8:239:GLY:O	45:L8:242:ALA:N	2.20	0.75
48:M1:166:LYS:O	48:M1:168:ASP:N	3.70	0.75
49:M3:180:ARG:HD3	72:O6:11:LEU:HD21	1.69	0.75
6:S4:32:SER:OG	6:S4:79:ASP:OD2	2.95	0.75
8:S6:47:GLY:O	8:S6:117:GLY:HA2	3.16	0.75
11:S9:82:ARG:HH11	11:S9:149:ARG:HD3	7.65	0.75
36:1:2250:G:N7	92:1:3466:OHX:N6	2.33	0.75
36:1:371:G:O6	92:1:3709:OHX:N4	2.19	0.75
1:2:79:C:H1'	8:S6:174:LYS:HD3	1.68	0.75
85:5:1846:C:H5'	85:5:1849:C:N4	2.01	0.75
71:O5:21:LEU:HD11	71:O5:55:LEU:HD21	1.69	0.75
36:1:162:G:H2'	36:1:163:C:H6	1.51	0.75
85:5:3115:C:O2	85:5:3117:C:N4	2.18	0.75
23:D1:71:ARG:O	23:D1:75:ASN:ND2	2.19	0.75
40:L3:208:VAL:O	40:L3:340:LYS:NZ	2.20	0.75
42:L5:59:ASP:OD2	42:L5:80:SER:OG	3.31	0.75
49:M3:47:ALA:HB1	49:M3:48:PRO:HD2	1.69	0.75
66:O0:40:LYS:HB3	66:O0:101:LEU:HD11	1.68	0.75
43:L6:85:ILE:HG23	69:O3:107:ILE:HG21	3.48	0.75
1:2:751:C:C2	11:S9:143:ILE:HG12	2.21	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1069:C:H2'	36:1:1070:U:H6	1.52	0.75
36:1:2393:G:O2'	36:1:2394:G:OP2	2.04	0.75
21:C9:57:ARG:HH21	21:C9:80:TYR:HB3	1.52	0.75
25:D3:96:VAL:HG23	25:D3:97:ASP:H	1.51	0.75
36:1:2878:G:H5''	40:L3:5:LYS:HE2	1.69	0.75
51:M5:169:LYS:NZ	85:5:64:G:OP2	99.36	0.75
51:M5:172:ARG:HH11	85:5:30:G:P	107.76	0.75
6:S4:125:LYS:NZ	6:S4:225:VAL:O	2.14	0.75
36:1:345:G:OP1	36:1:1429:G:N2	2.20	0.75
80:6:1542:G:H22	80:6:1568:C:H1'	1.51	0.75
39:L2:30:ARG:HH21	39:L2:36:GLU:HG3	3.31	0.75
43:L6:45:GLY:O	43:L6:48:ARG:NH1	4.92	0.75
68:O2:103:LYS:O	68:O2:106:VAL:HG22	1.87	0.75
3:S1:154:SER:O	3:S1:154:SER:OG	2.29	0.75
10:S8:197:THR:HG23	10:S8:200:LYS:HD2	1.68	0.75
36:1:1194:G:H2'	36:1:1195:A:C8	2.22	0.75
36:1:1742:U:H2'	36:1:1743:G:H8	1.52	0.75
36:1:2666:C:OP2	36:1:2687:G:N1	2.20	0.75
38:8:83:C:H4'	38:8:85:G:N3	2.02	0.75
26:D4:94:TYR:HB2	26:D4:96:LEU:HD12	2.99	0.75
41:L4:6:VAL:N	41:L4:20:LEU:O	2.17	0.75
42:L5:21:ARG:O	42:L5:23:ARG:N	2.20	0.75
55:M9:148:ASP:OD1	55:M9:151:ARG:NH2	2.20	0.75
79:Q3:56:THR:HA	79:Q3:63:THR:HA	1.93	0.75
2:S0:65:ALA:O	2:S0:67:ILE:N	3.30	0.75
36:1:1851:G:OP2	92:1:3513:OHX:N1	2.20	0.74
38:4:103:G:H4'	73:O7:21:ARG:HG3	1.65	0.74
85:5:247:C:C2	85:5:248:U:H1'	2.22	0.74
80:6:471:A:OP2	92:6:1957:OHX:N5	2.20	0.74
80:6:591:A:H2'	80:6:592:A:C8	2.22	0.74
55:M9:114:LYS:O	55:M9:146:LYS:NZ	3.87	0.74
1:2:127:G:N7	8:S6:202:ARG:NH2	2.35	0.74
36:1:1502:C:OP1	92:1:3415:OHX:N6	2.21	0.74
80:6:1584:G:N2	80:6:1611:A:OP2	2.19	0.74
47:M0:150:GLU:OE2	47:M0:153:ARG:NH2	4.62	0.74
47:M0:86:HIS:HB3	47:M0:139:ARG:HG2	2.17	0.74
49:M3:177:LYS:HA	72:O6:11:LEU:HD22	2.41	0.74
50:M4:20:VAL:O	50:M4:66:THR:OG1	2.02	0.74
1:2:1200:A:H5''	12:C0:1:MET:HG2	1.68	0.74
85:5:1234:G:OP2	85:5:1235:U:H3'	1.87	0.74
85:5:145:G:O6	92:5:3746:OHX:N5	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:L9:41:ILE:HG23	46:L9:41:ILE:O	1.86	0.74
51:M5:197:LEU:HD21	51:M5:199:LEU:HD21	1.69	0.74
85:5:3260:G:N2	85:5:3261:C:C2	2.55	0.74
85:5:770:G:O6	92:5:3594:OHX:N6	2.20	0.74
20:C8:35:ILE:HB	20:C8:38:VAL:HG22	3.99	0.74
26:D4:29:HIS:NE2	26:D4:69:SER:OG	2.51	0.74
28:D6:36:ILE:HG23	28:D6:73:TYR:HB2	1.70	0.74
62:N6:36:SER:HB3	62:N6:39:LEU:HB2	1.67	0.74
71:O5:101:THR:HG22	71:O5:103:LYS:N	2.01	0.74
36:1:1238:C:N4	36:1:1245:A:OP2	2.20	0.74
36:1:2771:U:O2'	36:1:2772:C:O4'	2.06	0.74
36:1:824:C:H2'	36:1:825:U:H6	1.52	0.74
36:1:979:U:H1'	36:1:980:A:C8	2.21	0.74
1:2:553:G:OP2	1:2:554:C:O2'	2.03	0.74
1:2:900:U:O2	16:C4:41:ARG:NH1	2.21	0.74
42:L5:106:ALA:HB2	42:L5:166:ALA:HA	1.67	0.74
36:1:2384:A:N1	52:M6:96:LYS:HE2	2.02	0.74
63:N7:105:SER:O	63:N7:109:GLU:N	3.23	0.74
68:O2:19:ARG:NH1	68:O2:28:VAL:HG13	2.95	0.74
36:1:1191:U:OP1	76:Q0:113:ARG:NH2	2.21	0.74
85:5:2335:G:N2	85:5:2339:C:O2	2.20	0.74
15:C3:94:LYS:O	15:C3:97:SER:N	2.93	0.74
1:2:1091:G:N1	25:D3:22:ASN:OD1	2.20	0.74
40:L3:284:ARG:NH2	40:L3:293:ASN:O	2.19	0.74
52:M6:120:VAL:O	52:M6:122:GLN:N	2.20	0.74
68:O2:19:ARG:HB2	68:O2:31:ASN:O	2.50	0.74
5:S3:21:LEU:HD22	5:S3:25:PHE:CE2	2.22	0.74
5:S3:40:ARG:HG3	22:D0:110:PRO:HB3	3.51	0.74
8:S6:171:LYS:NZ	80:6:68:A:OP2	348.53	0.74
1:2:115:G:OP1	13:C1:67:ARG:NH1	2.21	0.74
37:3:71:G:N2	37:3:107:C:O2	2.20	0.74
42:L5:293:LEU:O	42:L5:297:GLN:NE2	6.47	0.74
47:M0:61:SER:OG	47:M0:63:GLU:HG2	3.00	0.74
48:M1:107:ASP:N	48:M1:107:ASP:OD1	2.17	0.74
36:1:2355:G:H4'	53:M7:139:TYR:CE2	2.22	0.74
66:O0:16:LEU:HB2	66:O0:98:SER:HB2	3.04	0.74
79:Q3:36:ARG:HE	79:Q3:48:LYS:HD2	3.30	0.74
6:S4:248:ILE:HA	6:S4:251:GLU:HB2	3.20	0.74
1:2:1763:G:OP2	92:2:1929:OHX:N6	2.20	0.74
41:L4:29:PRO:HB3	54:M8:25:TYR:HE2	4.03	0.74
45:L8:109:LEU:O	45:L8:112:GLU:N	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3041:U:OP1	59:N3:12:ARG:NH1	2.21	0.74
6:S4:136:VAL:HG11	6:S4:148:ARG:CZ	2.37	0.74
7:S5:182:ALA:O	7:S5:186:ASN:ND2	2.21	0.74
36:1:1740:U:H1'	36:1:1741:A:H2	1.52	0.74
92:5:3706:OHX:N5	92:8:210:OHX:N3	2.36	0.74
13:C1:99:ARG:NH1	25:D3:7:ARG:O	2.19	0.74
46:L9:22:SER:OG	46:L9:23:ARG:N	2.20	0.74
36:1:268:A:C2	51:M5:12:ARG:HB3	2.23	0.74
64:N8:21:ARG:NH2	85:5:640:U:OP1	182.34	0.74
36:1:900:G:H1'	36:1:1589:A:N6	2.01	0.74
1:2:1353:U:O2'	1:2:1354:A:OP2	2.05	0.74
28:D6:79:ILE:HA	28:D6:84:VAL:HG11	1.68	0.74
39:L2:209:HIS:CD2	39:L2:210:PRO:HD2	2.23	0.74
40:L3:227:GLU:HG3	40:L3:270:ARG:HE	3.80	0.74
44:L7:107:ARG:HH12	44:L7:200:ASN:HA	1.52	0.74
57:N1:101:CYS:HB3	85:5:990:U:H1'	251.58	0.74
36:1:2294:U:OP1	59:N3:70:ARG:NH2	2.21	0.74
2:S0:79:ARG:NH1	2:S0:164:ASN:O	3.89	0.74
8:S6:10:ASN:OD1	8:S6:10:ASN:N	4.03	0.74
36:1:2631:U:H2'	36:1:2632:G:C8	2.21	0.73
92:2:1921:OHX:N2	92:2:2040:OHX:N6	2.36	0.73
85:5:2721:A:N6	85:5:2735:U:O4	2.18	0.73
51:M5:172:ARG:NH1	85:5:29:C:O3'	106.00	0.73
16:C4:50:ALA:HB3	16:C4:53:ASP:HB2	2.02	0.73
22:D0:64:LYS:O	31:D9:33:LYS:NZ	3.01	0.73
26:D4:131:ARG:NH2	80:6:153:G:OP2	319.52	0.73
30:D8:11:LYS:O	30:D8:31:GLU:N	2.95	0.73
42:L5:85:ARG:HD3	42:L5:86:TYR:CE2	2.23	0.73
47:M0:99:ILE:O	47:M0:120:GLY:HA3	2.60	0.73
63:N7:135:ARG:HH22	85:5:2557:A:H5'	197.08	0.73
78:Q2:45:ARG:NH2	85:5:283:G:OP1	147.12	0.73
3:S1:110:LEU:HD21	3:S1:213:ARG:HD2	1.69	0.73
8:S6:69:LEU:HB3	8:S6:71:THR:HG23	1.70	0.73
9:S7:66:SER:O	9:S7:68:ALA:N	3.15	0.73
36:1:2177:G:O2'	36:1:2178:A:OP2	2.06	0.73
36:1:3155:U:H3'	36:1:3156:U:H4'	1.71	0.73
36:1:2950:G:N7	92:1:3710:OHX:N1	2.35	0.73
85:5:2964:G:N7	92:5:3485:OHX:N2	2.35	0.73
96:5:3402:LEU:C	98:P:101:8AN:HN3'	211.63	0.73
85:5:3035:A:OP2	92:5:3551:OHX:N5	2.21	0.73
80:6:1542:G:N2	80:6:1568:C:H1'	2.03	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:L2:14:SER:OG	39:L2:15:ILE:N	2.18	0.73
97:5:3403:SPS:N4	91:P:75:C:OP2	225.16	0.73
1:2:1115:A:H2'	1:2:1116:A:H8	1.53	0.73
85:5:2274:U:OP2	92:5:3487:OHX:N6	2.20	0.73
41:L4:188:ARG:O	41:L4:193:LYS:HE3	1.87	0.73
49:M3:57:VAL:HG22	49:M3:147:ILE:HD13	3.41	0.73
36:1:3134:A:OP1	92:1:3438:OHX:N4	2.21	0.73
1:2:1213:A:H2'	1:2:1241:U:H5	1.52	0.73
39:L2:193:ARG:NH2	85:5:2181:C:OP1	197.76	0.73
78:Q2:41:ARG:NH1	85:5:284:A:OP2	156.88	0.73
80:6:524:U:N3	80:6:527:A:OP2	2.21	0.73
44:L7:208:SER:OG	44:L7:209:ASN:N	2.41	0.73
54:M8:158:HIS:H	54:M8:186:VAL:HG12	1.58	0.73
55:M9:13:SER:OG	55:M9:38:ARG:NH2	2.20	0.73
44:L7:224:ILE:HD13	56:N0:39:SER:OG	1.88	0.73
10:S8:11:ARG:NH1	10:S8:15:GLY:O	2.61	0.73
36:1:1651:U:O4	92:1:3674:OHX:N2	2.21	0.73
36:1:616:G:H2'	36:1:617:G:H8	1.52	0.73
36:1:952:A:N3	36:1:1114:U:O2'	2.21	0.73
30:D8:8:THR:OG1	30:D8:59:SER:OG	2.88	0.73
53:M7:168:LEU:HB2	53:M7:172:GLN:HB3	1.71	0.73
62:N6:120:GLN:OE1	62:N6:126:LEU:HA	6.57	0.73
9:S7:69:GLY:HA2	9:S7:72:LYS:HD2	1.70	0.73
36:1:1240:A:H61	36:1:1244:A:H5''	1.52	0.73
36:1:1730:G:O6	66:O0:29:SER:OG	2.07	0.73
85:5:1764:U:H3'	85:5:1765:U:H5''	1.71	0.73
85:5:244:G:OP2	85:5:244:G:H8	1.71	0.73
40:L3:67:PHE:HA	40:L3:70:ARG:HG3	4.89	0.73
36:1:3268:A:OP1	43:L6:46:ARG:NH2	2.22	0.73
73:O7:35:SER:O	73:O7:45:ARG:NH1	2.21	0.73
3:S1:35:PRO:HB3	3:S1:231:LEU:HD11	3.73	0.73
5:S3:175:VAL:HG13	5:S3:182:LEU:HB2	1.68	0.73
5:S3:64:ARG:O	5:S3:67:ASN:N	2.22	0.73
7:S5:42:LEU:HB2	7:S5:46:TRP:O	1.89	0.73
36:1:2656:A:H4'	78:Q2:98:LYS:HD2	1.70	0.73
36:1:2768:U:H2'	36:1:2769:A:C8	2.23	0.73
36:1:1808:G:O6	92:1:3517:OHX:N3	2.21	0.73
38:4:121:U:H2'	38:4:122:U:H6	1.54	0.73
85:5:1596:C:O2	85:5:1611:G:N2	2.21	0.73
13:C1:33:ARG:NH1	13:C1:53:TYR:O	2.97	0.73
41:L4:327:LEU:HA	44:L7:166:ASN:HD21	1.51	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:M1:49:LYS:HD3	48:M1:62:ASN:HB3	1.69	0.73
53:M7:169:THR:H	69:O3:60:ARG:HH11	1.35	0.73
5:S3:125:TYR:O	5:S3:129:SER:OG	4.80	0.73
8:S6:153:VAL:O	8:S6:155:ASP:N	2.21	0.73
36:1:2824:G:O6	92:1:3441:OHX:N3	2.21	0.73
1:2:717:A:H5''	1:2:718:C:OP1	1.87	0.73
79:Q3:62:LYS:HD3	85:5:2554:A:H62	217.85	0.73
39:L2:143:GLU:O	39:L2:145:LYS:N	2.62	0.73
40:L3:153:LYS:HG2	40:L3:154:TYR:CZ	3.46	0.73
41:L4:207:VAL:HG13	41:L4:249:ILE:HB	1.71	0.73
63:N7:46:ILE:HD13	63:N7:68:ILE:HG23	1.69	0.73
10:S8:57:ALA:HB2	10:S8:177:GLY:HA2	2.04	0.73
19:C7:37:GLU:OE1	34:SR:129:LYS:NZ	7.07	0.73
38:4:108:C:N4	38:4:114:G:O6	2.17	0.73
15:C3:146:ALA:HA	15:C3:149:LEU:HB2	1.71	0.73
1:2:868:G:H21	16:C4:123:SER:HB2	1.53	0.73
39:L2:177:LYS:NZ	79:Q3:33:GLN:OE1	4.05	0.73
52:M6:77:SER:OG	52:M6:106:GLU:OE1	3.87	0.73
10:S8:114:GLU:HG2	10:S8:120:THR:HA	1.70	0.73
1:2:785:G:H21	24:D2:107:SER:HB3	1.52	0.73
85:5:1938:U:O4	92:5:3453:OHX:N1	2.22	0.73
18:C6:5:PRO:HG2	18:C6:24:ALA:HB2	1.70	0.73
40:L3:68:HIS:CD2	40:L3:69:LYS:HG3	3.59	0.73
42:L5:187:THR:HG22	42:L5:189:GLU:HB2	4.38	0.73
56:N0:89:ASN:ND2	57:N1:156:TYR:H	1.86	0.73
62:N6:45:ILE:HD12	62:N6:119:ILE:HG23	2.07	0.73
63:N7:4:PHE:CZ	66:O0:35:ARG:HA	2.24	0.73
92:1:3475:OHX:N3	92:1:3728:OHX:N5	2.37	0.72
1:2:520:A:H2'	1:2:521:A:C8	2.24	0.72
1:2:97:C:H2'	1:2:98:U:C6	2.23	0.72
38:4:124:G:OP2	92:4:213:OHX:N4	2.21	0.72
85:5:1508:C:OP1	85:5:2354:C:O2'	2.07	0.72
85:5:2836:C:H5	85:5:2852:C:H42	1.37	0.72
18:C6:40:GLU:HA	18:C6:42:GLU:N	2.03	0.72
22:D0:57:ARG:HD3	22:D0:89:ARG:HD3	1.69	0.72
24:D2:104:LEU:HB3	24:D2:125:ILE:HA	1.71	0.72
2:S0:185:ARG:HB2	23:D1:45:ALA:H	1.54	0.72
7:S5:57:SER:O	7:S5:59:VAL:N	2.22	0.72
36:1:208:C:OP2	41:L4:163:LYS:NZ	2.20	0.72
36:1:3258:U:O2'	36:1:3260:G:OP1	2.07	0.72
36:1:1887:A:OP2	92:1:3429:OHX:N4	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
92:2:1921:OHX:N5	92:2:2040:OHX:N3	2.37	0.72
37:3:72:A:O2'	37:3:74:C:OP1	2.05	0.72
13:C1:16:GLN:NE2	13:C1:61:THR:O	2.21	0.72
23:D1:81:ASN:O	23:D1:83:TRP:N	2.22	0.72
25:D3:91:GLY:O	25:D3:93:LEU:N	2.22	0.72
40:L3:211:GLN:HB3	40:L3:212:ASN:OD1	2.31	0.72
41:L4:330:TYR:CZ	44:L7:49:ALA:HA	2.66	0.72
50:M4:128:ARG:NH2	85:5:3214:U:OP2	279.87	0.72
62:N6:33:ALA:O	62:N6:47:ALA:HB1	3.40	0.72
3:S1:36:SER:O	3:S1:38:PHE:N	2.20	0.72
1:2:355:G:OP2	92:2:1914:OHX:N4	2.23	0.72
85:5:135:C:H4'	85:5:136:G:OP2	1.89	0.72
85:5:566:G:N7	92:5:3628:OHX:N5	2.36	0.72
40:L3:139:GLN:O	40:L3:141:GLY:N	2.23	0.72
40:L3:361:THR:HG22	40:L3:371:GLN:OE1	4.70	0.72
42:L5:25:GLU:O	42:L5:27:LYS:HG3	1.89	0.72
42:L5:50:ARG:NH1	42:L5:72:ASP:OD2	2.23	0.72
43:L6:66:SER:O	43:L6:68:PRO:HA	3.95	0.72
72:O6:54:GLU:O	72:O6:58:ILE:HG23	1.89	0.72
85:5:1192:C:N4	85:5:1302:A:OP1	2.22	0.72
80:6:845:G:O6	92:6:1920:OHX:N3	2.22	0.72
14:C2:61:VAL:HG13	14:C2:121:VAL:HG23	1.75	0.72
1:2:902:A:H5'	16:C4:18:ARG:HH12	1.53	0.72
21:C9:30:VAL:O	21:C9:32:GLY:N	2.22	0.72
40:L3:334:ARG:O	40:L3:336:VAL:HG23	1.90	0.72
41:L4:93:MET:CE	41:L4:93:MET:H	2.91	0.72
75:O9:9:ILE:O	75:O9:13:MET:HG3	1.89	0.72
85:5:1070:U:O4	92:5:3609:OHX:N6	2.21	0.72
41:L4:73:ARG:HH11	85:5:805:G:H1'	163.69	0.72
80:6:250:C:H2'	80:6:251:A:C8	2.24	0.72
80:6:485:A:N6	80:6:486:G:N3	2.36	0.72
25:D3:97:ASP:O	25:D3:100:ASP:HB2	2.95	0.72
46:L9:156:GLN:NE2	46:L9:160:ASP:OD1	4.89	0.72
49:M3:8:PRO:HD3	54:M8:164:ARG:HB3	2.52	0.72
69:O3:59:VAL:O	69:O3:61:GLY:N	3.08	0.72
3:S1:40:ASN:ND2	3:S1:42:ASN:O	2.22	0.72
85:5:1662:G:H1	85:5:1787:A:H61	1.36	0.72
92:5:3503:OHX:N4	37:7:86:U:O2	2.23	0.72
13:C1:72:THR:HG22	13:C1:124:THR:HA	1.71	0.72
16:C4:25:ASP:OD1	16:C4:26:THR:N	3.27	0.72
41:L4:177:ASP:OD1	41:L4:180:LYS:HE3	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:M0:174:THR:HG23	47:M0:176:LEU:H	1.54	0.72
10:S8:12:SER:HB3	10:S8:18:ARG:HH12	2.66	0.72
62:N6:103:LYS:HE2	85:5:221:A:N6	79.34	0.72
15:C3:107:LYS:NZ	80:6:1019:A:OP2	266.18	0.72
31:D9:44:ARG:HH22	80:6:1280:C:H5'	398.61	0.72
80:6:696:C:H4'	80:6:697:C:C6	2.25	0.72
80:6:74:U:N3	80:6:76:A:H5''	2.05	0.72
43:L6:17:ALA:O	85:5:591:G:O2'	210.52	0.72
52:M6:110:PRO:O	52:M6:112:TYR:N	2.52	0.72
7:S5:128:ASN:O	7:S5:132:VAL:HG23	3.02	0.72
8:S6:57:ASP:HA	8:S6:106:LEU:HA	1.86	0.72
36:1:58:G:OP1	51:M5:157:LYS:NZ	2.22	0.72
85:5:3194:C:H2'	85:5:3195:U:H3'	1.72	0.72
45:L8:100:GLU:OE1	45:L8:108:ARG:NH1	2.23	0.72
52:M6:51:LYS:HE2	52:M6:144:SER:OG	1.90	0.72
36:1:1603:A:H61	61:N5:71:THR:HG21	1.54	0.72
65:N9:49:GLY:O	65:N9:52:LYS:N	3.38	0.72
9:S7:154:LEU:HD11	9:S7:183:PHE:HD1	1.96	0.72
36:1:2592:G:H4'	36:1:2594:C:C2	2.24	0.72
36:1:2534:G:O6	92:1:3707:OHX:N6	2.23	0.72
1:2:570:A:O2'	1:2:572:C:N4	2.22	0.72
69:O3:68:TRP:NE1	85:5:3275:U:OP2	227.35	0.72
85:5:821:U:O2'	85:5:912:G:OP1	2.07	0.72
80:6:986:G:H2'	80:6:987:G:O4'	1.90	0.72
26:D4:105:ARG:HH11	26:D4:109:LYS:HE2	1.55	0.72
27:D5:83:LEU:HD22	27:D5:88:ILE:HG21	3.10	0.72
47:M0:142:ASP:OD2	47:M0:178:ARG:NH2	3.04	0.72
47:M0:49:CYS:HB3	47:M0:168:SER:OG	2.46	0.72
63:N7:76:ASN:OD1	63:N7:77:TYR:N	2.23	0.72
75:O9:48:LYS:O	92:O9:101:OHX:N2	2.23	0.72
2:S0:101:ARG:HH21	80:6:1320:U:H3'	398.96	0.72
1:2:1143:A:H2'	1:2:1144:C:C6	2.24	0.72
1:2:136:C:H4'	1:2:137:U:OP1	1.90	0.72
75:O9:4:GLN:HE21	85:5:1833:G:H21	123.96	0.72
85:5:2426:U:N3	85:5:2603:G:O6	2.19	0.72
85:5:1171:G:O6	92:5:3506:OHX:N1	2.23	0.72
80:6:895:G:H1	80:6:917:U:H3	1.35	0.72
15:C3:103:GLU:HA	15:C3:106:ARG:HH22	1.54	0.72
36:1:1381:A:OP1	41:L4:197:ARG:NH1	2.23	0.72
43:L6:174:LEU:HD13	50:M4:117:ARG:NH1	3.56	0.72
52:M6:187:GLU:HA	52:M6:192:LYS:HD3	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:N6:27:ARG:NH1	62:N6:75:ARG:O	2.71	0.72
85:5:585:A:C6	85:5:586:C:N4	2.58	0.71
80:6:1090:C:H2'	80:6:1091:A:H5''	1.72	0.71
21:C9:97:SER:OG	80:6:1504:G:OP1	393.56	0.71
37:7:2:G:O2'	37:7:23:A:N1	2.21	0.71
43:L6:31:ARG:NH2	43:L6:81:ALA:O	3.03	0.71
46:L9:103:ILE:HG13	46:L9:136:PHE:CE2	2.25	0.71
49:M3:54:LEU:HD22	49:M3:55:ARG:H	1.55	0.71
54:M8:79:LYS:HA	54:M8:136:ASN:OD1	3.70	0.71
55:M9:85:ARG:HA	55:M9:88:ARG:HD3	1.71	0.71
56:N0:155:ARG:NH2	56:N0:171:PHE:O	2.23	0.71
67:O1:31:ARG:HB3	67:O1:31:ARG:HH11	1.67	0.71
36:1:2896:A:P	76:Q0:102:ARG:HH21	2.12	0.71
6:S4:88:ASP:OD1	6:S4:122:LYS:NZ	2.23	0.71
36:1:679:U:O4	92:1:3508:OHX:N1	2.23	0.71
85:5:2157:G:N2	85:5:2177:G:O2'	2.23	0.71
85:5:69:C:HO2'	85:5:101:G:HO2'	1.33	0.71
49:M3:63:VAL:HG22	85:5:72:C:H5'	113.53	0.71
80:6:1674:C:H42	80:6:1727:G:H1	1.35	0.71
10:S8:31:ARG:NH2	80:6:333:A:OP1	297.42	0.71
22:D0:48:HIS:O	22:D0:48:HIS:ND1	2.23	0.71
59:N3:33:ASN:HD21	59:N3:63:LYS:N	1.88	0.71
60:N4:9:SER:HA	60:N4:52:THR:HG22	1.70	0.71
71:O5:21:LEU:O	71:O5:24:LEU:N	3.18	0.71
2:S0:26:ALA:H	2:S0:149:LEU:HD12	1.54	0.71
34:SR:70:ASP:HB3	34:SR:113:VAL:HG12	2.64	0.71
36:1:2177:G:HO2'	36:1:2178:A:P	2.12	0.71
36:1:2280:A:H5''	36:1:2281:A:OP2	1.91	0.71
1:2:27:U:OP2	92:2:1962:OHX:N6	2.24	0.71
1:2:873:C:OP2	92:2:2028:OHX:N1	2.23	0.71
37:3:12:U:O4'	37:3:110:G:N2	2.23	0.71
85:5:255:A:H2'	85:5:256:G:H8	1.54	0.71
80:6:709:C:O2	80:6:730:G:N2	2.23	0.71
12:C0:21:VAL:HB	12:C0:66:TYR:HB2	2.34	0.71
61:N5:92:LYS:HD2	85:5:1830:G:H5''	103.64	0.71
9:S7:118:LEU:N	80:6:639:U:OP1	365.62	0.71
85:5:2255:A:H5'	85:5:2261:G:H22	1.55	0.71
85:5:3351:U:H5'	85:5:3352:U:OP2	1.91	0.71
15:C3:73:ARG:HD3	80:6:859:A:C5	329.29	0.71
18:C6:46:PHE:HA	18:C6:49:TYR:HB2	1.71	0.71
21:C9:31:PRO:HG3	21:C9:103:LYS:HD3	1.70	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:C9:49:ASP:OD1	21:C9:53:TRP:N	2.24	0.71
42:L5:270:LYS:HE2	42:L5:273:ARG:HA	8.94	0.71
46:L9:3:TYR:HE1	56:N0:138:GLN:HE22	4.39	0.71
57:N1:126:VAL:O	57:N1:127:GLN:HB3	3.04	0.71
61:N5:101:GLU:HG2	61:N5:102:LEU:HD23	3.42	0.71
62:N6:30:LEU:O	62:N6:32:SER:N	2.21	0.71
64:N8:88:ASP:HA	64:N8:91:LEU:HB2	2.27	0.71
36:1:1747:G:O2'	74:O8:3:ARG:O	2.08	0.71
9:S7:144:VAL:HG13	24:D2:49:GLU:HB3	3.46	0.71
36:1:802:C:O2'	36:1:803:C:H5'	1.91	0.71
36:1:97:U:OP1	49:M3:15:ARG:HD2	1.91	0.71
37:3:11:A:H4'	37:3:13:A:C8	2.26	0.71
38:4:77:A:OP2	92:4:207:OHX:N2	2.22	0.71
51:M5:38:ARG:NH2	38:8:143:U:OP1	109.04	0.71
12:C0:44:LYS:HA	12:C0:47:GLN:HB3	2.52	0.71
15:C3:19:SER:O	15:C3:19:SER:OG	2.08	0.71
16:C4:16:VAL:HG12	16:C4:31:THR:HG23	1.72	0.71
1:2:732:U:H5''	24:D2:83:ILE:HD13	1.73	0.71
41:L4:200:THR:HG22	41:L4:202:ARG:HH21	3.40	0.71
47:M0:78:THR:OG1	47:M0:79:VAL:N	3.89	0.71
53:M7:69:ARG:HG2	53:M7:79:THR:CG2	3.42	0.71
62:N6:38:GLU:O	62:N6:42:GLN:HG3	4.16	0.71
70:O4:99:LYS:HB3	70:O4:103:LYS:NZ	2.05	0.71
36:1:1334:U:OP1	44:L7:206:LYS:NZ	2.17	0.71
80:6:90:C:H2'	80:6:91:G:C8	2.26	0.71
26:D4:14:SER:HA	26:D4:21:LYS:HG3	1.71	0.71
29:D7:6:ASP:CG	29:D7:9:HIS:HD1	2.49	0.71
40:L3:129:ALA:O	85:5:3150:A:H5'	210.48	0.71
41:L4:141:ARG:HB3	41:L4:176:SER:HB3	3.34	0.71
46:L9:105:GLU:HG3	46:L9:109:ALA:H	1.55	0.71
46:L9:120:ASP:OD1	46:L9:124:ARG:NH2	2.41	0.71
46:L9:68:LEU:O	46:L9:71:VAL:N	2.95	0.71
67:O1:84:ASP:N	67:O1:84:ASP:OD1	2.24	0.71
8:S6:84:TYR:OH	8:S6:91:GLU:O	2.70	0.71
27:D5:43:ASP:HB2	27:D5:46:LYS:HE3	2.04	0.71
41:L4:42:VAL:O	41:L4:44:LYS:N	2.96	0.71
43:L6:170:LYS:HB3	43:L6:172:HIS:CE1	2.25	0.71
47:M0:4:ARG:NH1	85:5:2828:G:O2'	263.91	0.71
49:M3:2:ALA:N	64:N8:33:GLY:O	4.00	0.71
77:Q1:16:LYS:O	77:Q1:20:VAL:HG23	1.90	0.71
3:S1:87:ARG:NH2	3:S1:89:ASP:OD1	4.83	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2768:U:H2'	36:1:2769:A:H8	1.54	0.71
1:2:543:C:H5'	1:2:543:C:O2	1.90	0.71
39:L2:128:ARG:NH1	85:5:2177:G:OP2	198.76	0.71
85:5:439:C:H4'	85:5:440:A:H5'	1.73	0.71
18:C6:127:LYS:HA	18:C6:134:ALA:HA	1.71	0.71
37:3:27:A:O5'	42:L5:57:ASN:ND2	2.24	0.71
54:M8:134:GLY:O	54:M8:137:THR:OG1	2.67	0.71
55:M9:86:GLU:OE2	55:M9:91:SER:OG	2.06	0.71
36:1:1190:A:H4'	76:Q0:113:ARG:HH22	1.56	0.71
79:Q3:8:VAL:HB	79:Q3:11:THR:HG22	1.72	0.71
36:1:132:C:OP1	92:1:3562:OHX:N6	2.24	0.71
85:5:1055:A:N3	37:7:81:U:O2'	2.23	0.71
85:5:2836:C:H5	85:5:2852:C:N4	1.89	0.71
85:5:1840:U:OP2	92:5:3539:OHX:N4	2.24	0.71
85:5:563:U:H2'	85:5:564:G:H8	1.55	0.71
16:C4:85:ALA:N	16:C4:119:THR:HG22	2.21	0.71
45:L8:185:ARG:HD2	38:8:155:A:H5'	142.25	0.71
49:M3:75:PHE:O	49:M3:76:THR:OG1	2.09	0.71
52:M6:12:LYS:O	56:N0:167:ARG:NH2	2.23	0.71
64:N8:56:VAL:HG13	64:N8:57:GLY:H	1.55	0.71
66:O0:57:GLU:OE1	66:O0:69:TYR:OH	3.50	0.71
35:SM:24:GLU:OE2	48:M1:64:LYS:NZ	4.57	0.71
36:1:1246:G:OP2	92:1:3638:OHX:N1	2.24	0.71
36:1:1688:U:H2'	36:1:1689:U:C6	2.26	0.71
92:2:1921:OHX:N2	92:2:2040:OHX:N4	2.39	0.71
85:5:139:G:H2'	85:5:140:C:C6	2.24	0.71
85:5:2824:G:O6	92:5:3456:OHX:N6	2.24	0.71
21:C9:3:GLY:HA3	80:6:1364:G:N2	430.08	0.71
23:D1:3:ASN:HD21	23:D1:7:GLN:C	4.94	0.71
25:D3:69:ARG:NH1	25:D3:116:ASP:OD2	2.23	0.71
40:L3:188:ILE:HD12	40:L3:188:ILE:H	2.69	0.71
41:L4:269:SER:O	41:L4:271:LYS:N	2.24	0.71
41:L4:8:VAL:HG12	41:L4:9:HIS:H	1.55	0.71
51:M5:106:VAL:O	51:M5:109:ARG:N	2.24	0.71
51:M5:11:GLN:HG2	51:M5:44:ARG:HH21	1.56	0.71
51:M5:3:ALA:O	51:M5:7:LEU:HD22	5.26	0.71
57:N1:9:SER:O	57:N1:55:LYS:NZ	3.11	0.71
8:S6:10:ASN:HB3	8:S6:128:THR:HA	3.87	0.71
9:S7:177:THR:OG1	9:S7:178:GLY:N	2.28	0.71
36:1:655:C:H2'	36:1:656:A:H8	1.56	0.70
1:2:2:A:C2	4:S2:170:ILE:HD13	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:2697:A:H2'	85:5:2698:G:H8	1.55	0.70
80:6:485:A:C6	80:6:486:G:H1'	2.26	0.70
80:6:67:A:N6	80:6:83:G:O2'	2.24	0.70
80:6:86:A:H2'	80:6:87:C:H6	1.55	0.70
16:C4:20:TYR:HB3	16:C4:27:PHE:HB2	2.41	0.70
58:N2:41:ILE:HD13	58:N2:71:PHE:HE2	2.00	0.70
36:1:3192:U:O4	92:1:3665:OHX:N1	2.23	0.70
36:1:568:G:N7	92:1:3480:OHX:N4	2.39	0.70
16:C4:128:LYS:HD3	28:D6:27:SER:OG	3.71	0.70
41:L4:181:VAL:HG11	41:L4:224:GLY:HA3	3.12	0.70
56:N0:89:ASN:ND2	57:N1:155:PRO:HB3	2.05	0.70
63:N7:10:VAL:O	63:N7:83:THR:HG22	1.96	0.70
74:O8:65:LEU:HD23	74:O8:68:SER:HB2	2.14	0.70
9:S7:50:ASP:N	9:S7:50:ASP:OD1	2.23	0.70
9:S7:73:VAL:O	9:S7:75:THR:N	2.29	0.70
10:S8:61:GLU:HG3	10:S8:62:THR:HG23	1.73	0.70
34:SR:133:VAL:HB	34:SR:142:ALA:HB3	1.72	0.70
36:1:440:A:OP1	36:1:494:G:H1'	1.90	0.70
1:2:363:G:OP1	92:2:1956:OHX:N2	2.24	0.70
85:5:539:C:N3	85:5:552:G:N2	2.38	0.70
85:5:789:A:H2'	85:5:790:U:C6	2.26	0.70
80:6:27:U:H2'	80:6:28:A:C8	2.26	0.70
8:S6:94:ARG:NH2	80:6:406:U:O3'	290.31	0.70
80:6:918:U:H2'	80:6:919:A:C8	2.24	0.70
80:6:993:A:H2'	80:6:994:G:O4'	1.90	0.70
92:2:1917:OHX:N1	25:D3:64:PRO:O	2.23	0.70
41:L4:47:ARG:NH1	41:L4:109:TRP:O	2.33	0.70
45:L8:75:ILE:HG22	45:L8:76:ALA:H	1.53	0.70
51:M5:34:ASN:OD1	92:5:3457:OHX:N6	141.36	0.70
52:M6:84:LEU:O	52:M6:87:MET:N	2.15	0.70
56:N0:1:MET:HE1	56:N0:32:SER:H	1.56	0.70
3:S1:207:LEU:HB3	3:S1:210:ILE:HD11	2.49	0.70
6:S4:35:PRO:HD2	6:S4:83:PRO:HG2	1.73	0.70
36:1:1185:C:OP1	50:M4:59:ASN:ND2	2.23	0.70
1:2:139:C:O2'	8:S6:187:LYS:NZ	2.25	0.70
85:5:2514:U:H6	85:5:2514:U:OP1	1.75	0.70
85:5:2524:A:O2'	85:5:2525:G:OP2	2.06	0.70
85:5:1919:G:N7	92:5:3572:OHX:N4	2.39	0.70
85:5:608:A:H5"	85:5:609:G:OP2	1.91	0.70
6:S4:146:THR:HG21	80:6:123:G:H21	339.79	0.70
40:L3:2:SER:N	85:5:2940:A:N7	237.30	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:N8:56:VAL:HG13	64:N8:57:GLY:N	2.06	0.70
5:S3:94:ARG:NH2	35:SM:134:LEU:HD23	2.06	0.70
6:S4:123:LEU:HD23	6:S4:228:ILE:HG22	1.73	0.70
36:1:269:G:O6	92:1:3611:OHX:N3	2.25	0.70
1:2:149:C:OP1	26:D4:121:THR:OG1	2.07	0.70
85:5:2689:A:C8	85:5:2702:A:N6	2.59	0.70
40:L3:174:LYS:N	85:5:3314:A:OP1	203.55	0.70
85:5:856:G:OP1	85:5:1722:U:O2'	2.07	0.70
80:6:827:C:H42	80:6:845:G:H1	1.39	0.70
6:S4:60:GLU:OE1	26:D4:20:ARG:NH1	3.04	0.70
32:E0:55:ARG:HB3	32:E0:58:PRO:HG3	1.73	0.70
41:L4:261:VAL:O	41:L4:269:SER:OG	2.09	0.70
47:M0:205:SER:O	47:M0:208:ASN:ND2	3.57	0.70
53:M7:108:ASP:OD2	53:M7:110:THR:HG23	2.15	0.70
59:N3:45:ARG:HG2	59:N3:48:ARG:HH21	1.55	0.70
72:O6:26:ILE:O	72:O6:28:TYR:N	2.24	0.70
7:S5:156:ARG:HA	7:S5:157:ARG:HH21	4.77	0.70
8:S6:73:ILE:HD12	8:S6:75:LEU:HD21	2.60	0.70
36:1:899:U:O4	92:1:3474:OHX:N4	2.25	0.70
38:4:55:U:O2	92:4:210:OHX:N2	2.24	0.70
71:O5:95:PHE:CG	85:5:136:G:H5'	61.76	0.70
80:6:1280:C:H2'	80:6:1281:G:C8	2.24	0.70
24:D2:77:PRO:O	24:D2:79:PHE:N	2.24	0.70
40:L3:347:SER:O	40:L3:349:LYS:N	4.36	0.70
57:N1:50:LYS:HD3	57:N1:92:ARG:HH12	1.57	0.70
63:N7:128:GLN:O	63:N7:130:PHE:N	3.23	0.70
39:L2:48:ILE:CD1	79:Q3:54:ILE:HG12	2.20	0.70
10:S8:39:GLY:HA2	10:S8:61:GLU:HB3	1.72	0.70
36:1:1738:C:H1'	70:O4:52:GLN:HE21	1.56	0.70
92:1:3494:OHX:N4	44:L7:217:PRO:HA	2.06	0.70
85:5:3242:G:H5'	85:5:3245:A:C8	2.26	0.70
13:C1:132:SER:O	13:C1:134:THR:N	2.50	0.70
18:C6:98:ASP:OD2	18:C6:99:GLU:N	2.90	0.70
40:L3:35:ASP:OD2	40:L3:37:ARG:HD2	3.38	0.70
41:L4:138:ARG:HD3	41:L4:245:GLY:O	2.67	0.70
46:L9:49:ASN:O	46:L9:51:GLN:N	2.23	0.70
75:O9:14:ALA:O	75:O9:18:LYS:HG3	2.33	0.70
96:5:3402:LEU:O	98:P:101:8AN:N3'	212.86	0.70
36:1:1004:U:N3	36:1:1005:G:N7	2.39	0.70
36:1:209:A:OP1	41:L4:161:LYS:NZ	2.17	0.70
36:1:2503:G:H1'	36:1:2504:U:H5	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:14:C:H42	1:2:1123:G:H1	1.39	0.70
1:2:149:C:OP1	26:D4:121:THR:N	2.25	0.70
85:5:1223:A:OP2	85:5:1285:G:N2	2.23	0.70
80:6:138:A:H62	80:6:266:A:H61	1.37	0.70
80:6:562:G:H1	80:6:583:C:H42	1.40	0.70
25:D3:100:ASP:OD1	25:D3:142:LYS:NZ	2.25	0.70
59:N3:87:ARG:HH12	59:N3:137:VAL:HG11	2.06	0.70
63:N7:53:VAL:HA	63:N7:57:HIS:HD2	1.76	0.70
74:O8:75:VAL:HG12	74:O8:77:ARG:HD2	5.86	0.70
79:Q3:24:ARG:NH2	80:6:982:U:O3'	248.90	0.70
6:S4:118:GLU:HA	6:S4:121:TYR:CE1	2.67	0.70
11:S9:106:GLU:O	11:S9:111:THR:OG1	3.14	0.70
36:1:835:G:O2'	36:1:857:G:N2	2.24	0.70
80:6:40:A:O2'	92:6:1962:OHX:N2	2.24	0.70
18:C6:128:LYS:HB2	18:C6:137:ARG:HH22	3.40	0.70
40:L3:55:THR:O	40:L3:56:ILE:HD12	1.91	0.70
45:L8:225:LYS:O	45:L8:229:VAL:HG23	1.91	0.70
46:L9:134:ILE:HD11	46:L9:146:LEU:HD23	2.24	0.70
47:M0:177:ASP:OD2	47:M0:177:ASP:N	3.21	0.70
68:O2:95:GLU:OE2	68:O2:120:THR:OG1	2.05	0.70
78:Q2:71:ARG:HE	78:Q2:80:ARG:HD3	1.56	0.70
1:2:1283:A:OP1	4:S2:99:LYS:NZ	2.25	0.70
36:1:1751:G:OP1	74:O8:26:LYS:NZ	2.17	0.70
36:1:2107:A:H2	36:1:3344:A:H8	1.39	0.70
85:5:3317:U:O2'	92:5:3637:OHX:N6	2.25	0.70
85:5:420:G:OP1	85:5:420:G:OP2	2.10	0.70
42:L5:260:PHE:HE2	37:7:121:U:H5'	319.43	0.70
17:C5:33:PHE:CZ	17:C5:112:LEU:HD13	3.29	0.70
18:C6:127:LYS:NZ	18:C6:131:GLY:O	2.25	0.70
14:C2:74:LEU:HD21	33:E1:106:TYR:HB3	2.54	0.70
52:M6:14:HIS:CD2	52:M6:124:LEU:HD13	2.27	0.70
63:N7:29:HIS:O	63:N7:31:GLU:N	2.24	0.70
67:O1:15:ASN:HB3	67:O1:18:LYS:HE2	1.74	0.70
1:2:577:G:H2'	35:SM:99:LYS:NZ	2.07	0.70
36:1:1646:G:O2'	36:1:1647:A:OP2	2.09	0.69
36:1:3376:A:OP2	92:1:3443:OHX:N5	2.25	0.69
36:1:435:C:N4	36:1:621:A:C8	2.60	0.69
36:1:729:C:H2'	36:1:730:C:H6	1.57	0.69
1:2:1453:C:OP1	1:2:1523:G:O2'	2.10	0.69
1:2:956:A:H2'	1:2:957:A:H8	1.56	0.69
80:6:1349:G:N2	80:6:1378:U:O4	2.19	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:C5:40:ARG:NH2	80:6:1552:U:O4	392.21	0.69
18:C6:49:TYR:HB3	18:C6:53:LEU:HD11	1.73	0.69
29:D7:6:ASP:OD1	29:D7:9:HIS:ND1	2.57	0.69
40:L3:53:MET:HG2	40:L3:77:THR:HG23	4.85	0.69
41:L4:158:SER:HA	41:L4:213:ASN:O	1.91	0.69
55:M9:21:LYS:O	55:M9:53:LYS:HB2	1.92	0.69
71:O5:108:GLN:O	71:O5:112:PRO:HG3	1.91	0.69
36:1:1517:G:OP1	75:O9:41:ARG:NH1	2.24	0.69
79:Q3:84:ARG:HA	79:Q3:87:ARG:NH1	3.83	0.69
3:S1:129:THR:OG1	3:S1:131:ASP:O	2.64	0.69
3:S1:141:ALA:HB1	3:S1:207:LEU:HD22	3.75	0.69
7:S5:144:GLU:HA	7:S5:161:ASP:HA	2.75	0.69
9:S7:162:ILE:O	9:S7:164:TYR:N	3.31	0.69
10:S8:84:HIS:CE1	10:S8:86:SER:HB2	2.26	0.69
1:2:52:U:H2'	1:2:53:G:C8	2.27	0.69
1:2:878:G:H1	1:2:900:U:H3	1.40	0.69
79:Q3:4:ARG:NH1	85:5:837:A:OP2	237.51	0.69
17:C5:29:SER:HG	17:C5:32:ASP:H	1.39	0.69
1:2:600:U:OP2	25:D3:108:GLY:HA2	1.92	0.69
41:L4:262:TRP:CE3	41:L4:271:LYS:HE3	3.58	0.69
42:L5:85:ARG:HD3	42:L5:86:TYR:CZ	2.27	0.69
44:L7:88:ARG:HD2	44:L7:90:LYS:O	1.95	0.69
48:M1:98:ALA:HA	48:M1:156:LYS:HB2	1.72	0.69
57:N1:102:ARG:HG2	57:N1:102:ARG:HH11	1.56	0.69
36:1:739:G:O6	92:1:3455:OHX:N3	2.26	0.69
36:1:299:G:O6	92:1:3612:OHX:N2	2.25	0.69
1:2:1569:A:H1'	1:2:1594:A:H61	1.56	0.69
85:5:1383:G:O6	92:5:3440:OHX:N5	2.25	0.69
80:6:1153:G:O6	80:6:1625:C:N4	2.20	0.69
45:L8:48:ARG:NH2	85:5:2588:U:OP1	183.73	0.69
36:1:2646:C:H5"	47:M0:119:TRP:CD1	2.27	0.69
58:N2:19:VAL:HG12	58:N2:105:LEU:HD22	2.49	0.69
64:N8:28:HIS:CE1	64:N8:32:ARG:NE	2.61	0.69
69:O3:48:ARG:HG2	69:O3:104:PRO:HD3	2.84	0.69
6:S4:150:PRO:HB2	6:S4:154:ILE:HD12	1.73	0.69
8:S6:70:PRO:HA	8:S6:98:ARG:NH1	2.07	0.69
1:2:1263:C:H2'	1:2:1264:G:C8	2.27	0.69
80:6:621:A:O2'	80:6:1106:U:O2'	2.08	0.69
80:6:845:G:H2'	80:6:846:G:H8	1.57	0.69
38:8:77:A:OP2	92:8:206:OHX:N1	2.24	0.69
17:C5:81:ARG:NH1	17:C5:97:TYR:O	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:L5:164:LYS:HG2	42:L5:180:PHE:CZ	2.28	0.69
51:M5:118:SER:HB3	51:M5:132:VAL:HG13	1.84	0.69
52:M6:54:TYR:HE2	52:M6:58:LEU:HD13	1.60	0.69
36:1:3274:A:H2'	53:M7:171:ARG:NH1	2.07	0.69
59:N3:20:GLY:HA2	59:N3:35:TYR:HE1	1.58	0.69
40:L3:368:GLY:O	60:N4:17:ARG:NH1	2.25	0.69
61:N5:105:VAL:HA	61:N5:130:TYR:CE2	2.27	0.69
61:N5:86:VAL:HG11	61:N5:95:ILE:HG12	1.93	0.69
3:S1:70:LEU:HB3	3:S1:79:HIS:HB3	5.06	0.69
80:6:1680:G:O6	92:6:2049:OHX:N4	2.24	0.69
80:6:333:A:C6	80:6:334:G:C6	2.80	0.69
8:S6:160:ARG:NH2	80:6:68:A:OP1	344.42	0.69
19:C7:51:ALA:O	19:C7:55:THR:OG1	2.08	0.69
28:D6:74:CYS:SG	28:D6:77:CYS:N	2.61	0.69
45:L8:134:TYR:CD2	45:L8:190:VAL:HG11	4.38	0.69
49:M3:75:PHE:O	49:M3:79:GLU:HB2	1.93	0.69
70:O4:85:VAL:HA	70:O4:88:ARG:HG2	1.72	0.69
35:SM:24:GLU:O	35:SM:25:ILE:HD12	1.92	0.69
1:2:611:U:OP2	25:D3:5:LYS:NZ	2.15	0.69
85:5:117:U:O2	85:5:119:U:H2'	1.92	0.69
74:O8:44:LYS:NZ	85:5:1751:G:O6	130.76	0.69
51:M5:44:ARG:HH22	85:5:269:G:P	125.60	0.69
51:M5:68:ARG:HG3	85:5:291:C:OP1	145.04	0.69
85:5:602:A:H2'	85:5:603:A:C8	2.27	0.69
80:6:1087:A:H2'	80:6:1088:A:C8	2.27	0.69
22:D0:16:GLN:HG3	22:D0:18:GLN:HG2	8.31	0.69
1:2:1779:C:O5'	28:D6:5:ARG:NH1	2.26	0.69
41:L4:144:LYS:HG2	41:L4:145:ILE:H	5.85	0.69
41:L4:262:TRP:CZ3	41:L4:271:LYS:HE3	3.11	0.69
45:L8:100:GLU:OE2	45:L8:108:ARG:NH1	3.24	0.69
47:M0:161:GLY:O	47:M0:163:GLN:NE2	2.26	0.69
65:N9:23:LYS:HB3	65:N9:24:PRO:HD3	2.09	0.69
68:O2:124:GLY:O	68:O2:126:LEU:N	2.38	0.69
70:O4:71:THR:HG22	70:O4:77:GLY:HA3	1.96	0.69
78:Q2:47:GLN:NE2	78:Q2:53:GLN:OE1	4.67	0.69
36:1:2217:U:H2'	36:1:2218:G:H8	1.58	0.69
1:2:851:G:H1	1:2:943:U:H3	1.41	0.69
33:E1:116:LYS:NZ	33:E1:120:GLU:OE2	2.17	0.69
40:L3:383:LEU:HD12	40:L3:385:LYS:HE2	3.85	0.69
55:M9:135:LYS:NZ	85:5:1949:G:OP2	224.25	0.69
58:N2:50:LEU:HB3	58:N2:54:VAL:HG23	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:N2:81:LYS:HA	58:N2:84:LEU:HD12	1.72	0.69
4:S2:108:ASN:OD1	4:S2:141:ARG:NH1	2.25	0.69
6:S4:105:VAL:HB	6:S4:243:GLY:HA2	2.29	0.69
36:1:1410:U:OP2	92:1:3489:OHX:N4	2.25	0.69
1:2:1667:U:O2	1:2:1701:G:N2	2.25	0.69
39:L2:243:THR:OG1	85:5:2244:A:OP1	229.21	0.69
42:L5:51:LEU:N	42:L5:145:PHE:O	2.21	0.69
47:M0:9:TYR:O	47:M0:59:GLN:NE2	2.25	0.69
49:M3:54:LEU:HD22	49:M3:55:ARG:N	2.06	0.69
7:S5:63:GLN:HB3	7:S5:88:PRO:HA	2.57	0.69
10:S8:48:THR:HG21	10:S8:54:LYS:HE3	1.73	0.69
1:2:1271:G:H1	1:2:1310:C:H42	1.41	0.69
85:5:300:G:O6	92:5:3694:OHX:N2	2.26	0.69
7:S5:163:SER:HB3	30:D8:48:VAL:HG22	1.75	0.69
36:1:2853:A:O3'	47:M0:64:ALA:HB2	1.93	0.69
49:M3:128:ARG:NH2	71:O5:110:ALA:O	2.26	0.69
49:M3:157:ARG:NH1	64:N8:146:GLU:OE2	2.89	0.69
59:N3:32:ARG:NH1	59:N3:32:ARG:O	7.46	0.69
6:S4:131:LEU:HD11	6:S4:135:GLY:HA2	2.59	0.69
7:S5:55:ASP:HB3	7:S5:58:LEU:HD12	1.75	0.69
36:1:1009:A:O3'	47:M0:39:LYS:NZ	2.25	0.69
1:2:1417:U:O2'	1:2:1419:A:OP1	2.06	0.69
85:5:223:U:OP1	85:5:225:C:N4	2.25	0.69
41:L4:53:SER:HB3	85:5:346:C:OP1	112.43	0.69
85:5:58:G:O2'	85:5:61:A:H5'	1.93	0.69
22:D0:42:VAL:HG22	22:D0:52:LYS:HZ2	1.56	0.69
7:S5:81:ARG:HH21	30:D8:47:PRO:HB3	2.36	0.69
73:O7:22:CYS:SG	73:O7:37:CYS:SG	3.31	0.69
2:S0:49:ASN:HB3	2:S0:52:LYS:HG3	1.74	0.69
2:S0:56:LYS:O	2:S0:60:ALA:N	2.76	0.69
1:2:1274:G:H5'	4:S2:119:LYS:HE2	1.73	0.69
36:1:1383:G:O6	92:1:3417:OHX:N4	2.25	0.69
36:1:1565:G:N2	36:1:1574:C:N3	2.41	0.69
36:1:3033:A:H2'	36:1:3034:C:H6	1.58	0.69
92:1:3565:OHX:N3	92:1:3578:OHX:N3	2.41	0.69
1:2:855:G:O6	92:2:2006:OHX:N3	2.26	0.69
85:5:2120:A:OP2	92:5:3571:OHX:N1	2.25	0.69
21:C9:17:ALA:O	21:C9:20:SER:OG	5.30	0.69
28:D6:25:ASN:HB3	28:D6:77:CYS:SG	2.32	0.69
47:M0:200:LEU:HD12	47:M0:213:PHE:CD1	3.37	0.69
55:M9:26:PRO:O	55:M9:29:THR:HG22	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:N7:97:SER:HB2	63:N7:99:GLU:HG3	1.74	0.69
36:1:787:G:H2'	36:1:788:C:C6	2.28	0.68
1:2:325:G:H4'	13:C1:83:THR:HG21	1.74	0.68
80:6:1068:C:H2'	80:6:1069:A:H8	1.58	0.68
80:6:699:U:H3	80:6:739:G:H1	1.42	0.68
16:C4:125:SER:OG	16:C4:126:THR:N	2.38	0.68
21:C9:117:SER:OG	21:C9:118:PRO:O	2.10	0.68
15:C3:17:PRO:HG3	29:D7:28:PRO:HG3	1.75	0.68
44:L7:140:SER:O	44:L7:144:ILE:HG13	2.62	0.68
44:L7:27:ALA:HA	44:L7:30:ARG:HB3	1.75	0.68
76:Q0:100:TYR:O	85:5:2895:G:O2'	311.40	0.68
78:Q2:17:CYS:SG	78:Q2:77:CYS:CB	2.80	0.68
3:S1:34:ALA:HB3	3:S1:41:ARG:HA	1.73	0.68
1:2:776:A:H5''	1:2:777:U:C6	2.29	0.68
57:N1:129:LYS:HB3	85:5:1097:G:H4'	250.23	0.68
85:5:1904:C:N3	85:5:2951:G:H5'	2.07	0.68
85:5:339:C:OP1	85:5:1380:G:O2'	2.12	0.68
13:C1:57:LYS:HD3	13:C1:131:ILE:HG23	1.75	0.68
22:D0:37:VAL:HG21	22:D0:112:VAL:HG21	3.67	0.68
2:S0:55:GLU:OE2	23:D1:80:LYS:HG2	5.73	0.68
49:M3:166:ALA:N	64:N8:135:GLU:OE1	3.79	0.68
49:M3:81:LYS:O	49:M3:83:ALA:N	2.91	0.68
6:S4:240:LYS:HE2	6:S4:240:LYS:H	1.58	0.68
1:2:448:C:OP1	6:S4:29:PRO:HD3	1.92	0.68
8:S6:152:ASP:OD2	8:S6:154:ARG:NH1	6.51	0.68
9:S7:125:ILE:O	9:S7:129:LEU:N	3.02	0.68
1:2:976:A:OP1	1:2:1760:G:N2	2.24	0.68
85:5:2111:G:OP1	92:5:3738:OHX:N3	2.26	0.68
85:5:549:U:H2'	85:5:550:A:C8	2.27	0.68
11:S9:124:HIS:HD2	80:6:479:C:H5'	452.19	0.68
16:C4:14:PHE:HA	16:C4:78:ALA:HB3	3.10	0.68
47:M0:47:PRO:HD2	47:M0:141:LYS:HA	1.74	0.68
50:M4:13:ARG:NH1	50:M4:65:LEU:O	2.92	0.68
54:M8:85:GLY:O	54:M8:104:LEU:HB2	2.89	0.68
57:N1:108:ARG:O	57:N1:112:ASN:ND2	2.39	0.68
57:N1:51:GLY:HA3	57:N1:92:ARG:HG3	2.02	0.68
38:4:41:A:O2'	73:O7:59:THR:HG22	1.94	0.68
3:S1:137:ILE:HD11	3:S1:172:LEU:HD22	3.40	0.68
3:S1:144:ARG:HB3	3:S1:208:GLN:HB3	1.78	0.68
7:S5:117:THR:HG21	7:S5:194:LEU:HD22	5.28	0.68
36:1:2683:U:H2'	36:1:2684:C:C6	2.29	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1530:A:OP2	20:C8:123:ARG:NH2	2.20	0.68
85:5:1025:A:H3'	85:5:1026:A:H4'	1.75	0.68
85:5:1765:U:C2	85:5:1766:G:H1'	2.28	0.68
85:5:47:C:OP2	85:5:48:A:O2'	2.11	0.68
68:O2:33:ARG:NH1	85:5:944:C:H4'	162.05	0.68
80:6:1345:A:H2'	80:6:1348:A:H62	1.59	0.68
13:C1:99:ARG:HB3	25:D3:9:LEU:O	1.93	0.68
1:2:1237:U:OP2	14:C2:46:ARG:NH1	2.26	0.68
31:D9:21:CYS:SG	31:D9:24:CYS:SG	3.02	0.68
53:M7:105:LYS:HB3	53:M7:107:LEU:HD22	3.15	0.68
53:M7:176:ILE:HG23	53:M7:179:GLN:OE1	1.92	0.68
53:M7:8:SER:OG	53:M7:8:SER:O	2.78	0.68
8:S6:190:GLN:O	8:S6:193:LEU:N	2.83	0.68
9:S7:25:VAL:HA	9:S7:28:GLU:HB2	2.30	0.68
36:1:1069:C:H2'	36:1:1070:U:C6	2.29	0.68
36:1:1493:G:O6	75:O9:2:ALA:N	2.26	0.68
36:1:1847:A:O2'	36:1:1848:G:H5''	1.93	0.68
36:1:735:A:H2'	36:1:736:A:C8	2.29	0.68
1:2:1525:G:H22	1:2:1551:C:H1'	1.56	0.68
85:5:738:A:H2'	85:5:739:G:C8	2.29	0.68
19:C7:5:ARG:NH1	80:6:1402:G:OP2	408.75	0.68
15:C3:56:ASP:OD1	29:D7:52:THR:OG1	2.09	0.68
21:C9:12:GLN:O	21:C9:16:ASN:ND2	2.27	0.68
28:D6:44:ILE:HD12	28:D6:45:VAL:H	1.59	0.68
47:M0:76:MET:HE1	47:M0:148:VAL:HA	3.38	0.68
59:N3:10:LYS:HG2	59:N3:11:PHE:O	1.92	0.68
63:N7:87:LEU:HD12	63:N7:88:ASP:H	1.57	0.68
72:O6:62:ARG:NH1	72:O6:94:ILE:HD11	4.73	0.68
96:1:3402:LEU:O	98:P:101:8AN:N3'	2.24	0.68
6:S4:72:VAL:N	6:S4:75:LYS:O	2.30	0.68
8:S6:20:ASP:HB2	8:S6:23:ARG:HB2	1.75	0.68
36:1:1420:C:OP2	41:L4:193:LYS:NZ	2.23	0.68
36:1:2972:G:H2'	36:1:2973:G:H8	1.57	0.68
36:1:3003:G:P	40:L3:26:ARG:HH22	2.17	0.68
36:1:2248:C:OP2	92:1:3418:OHX:N3	2.26	0.68
72:O6:30:LYS:HG2	85:5:316:U:O2	105.40	0.68
85:5:990:U:O4	92:5:3687:OHX:N6	2.26	0.68
22:D0:60:THR:HG22	80:6:1382:A:H5''	435.10	0.68
13:C1:79:LYS:HB2	80:6:346:G:H5'	282.22	0.68
24:D2:67:GLY:O	24:D2:69:LEU:N	2.77	0.68
25:D3:126:LYS:HA	25:D3:131:SER:HA	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:M6:158:ALA:O	52:M6:162:VAL:HG23	2.81	0.68
63:N7:18:TYR:HB3	63:N7:21:LYS:HD2	3.42	0.68
65:N9:37:PRO:O	65:N9:39:PHE:N	3.10	0.68
9:S7:11:GLN:HG3	9:S7:13:PRO:HD2	1.75	0.68
34:SR:89:LEU:HB2	34:SR:103:PHE:HB2	1.75	0.68
34:SR:80:ALA:HB3	34:SR:92:TRP:HB2	1.97	0.68
36:1:1724:U:H1'	36:1:1725:C:C6	2.29	0.68
36:1:3037:U:H2'	36:1:3038:U:H6	1.59	0.68
92:1:3711:OHX:N1	40:L3:364:LYS:O	2.27	0.68
1:2:1703:G:O6	92:2:1960:OHX:N5	2.27	0.68
1:2:66:U:O4	8:S6:158:ILE:HG21	1.94	0.68
38:4:62:C:H4'	38:4:63:G:O5'	1.94	0.68
85:5:252:U:H4'	85:5:253:A:C5'	2.24	0.68
85:5:314:U:H2'	85:5:315:C:C6	2.29	0.68
85:5:523:A:N6	85:5:570:A:C2	2.62	0.68
80:6:1680:G:O6	92:6:2049:OHX:N1	2.26	0.68
18:C6:110:THR:HA	18:C6:113:ASP:HB2	2.02	0.68
2:S0:59:LEU:HD12	23:D1:79:LEU:HD21	3.90	0.68
28:D6:10:ARG:HB2	28:D6:34:LYS:HA	2.21	0.68
41:L4:62:ALA:HB1	41:L4:76:ARG:C	2.14	0.68
46:L9:151:VAL:O	46:L9:155:SER:OG	2.91	0.68
68:O2:47:ARG:NH1	85:5:634:C:O3'	217.61	0.68
70:O4:74:ARG:HG2	70:O4:75:ALA:H	2.87	0.68
78:Q2:52:GLY:O	78:Q2:54:THR:HG23	1.93	0.68
20:C8:120:ARG:HE	35:SM:61:ILE:HD13	3.42	0.68
34:SR:160:GLU:O	34:SR:162:ALA:N	2.26	0.68
36:1:1724:U:H4'	36:1:1725:C:OP1	1.94	0.68
1:2:1795:G:N2	1:2:1797:A:H5''	2.09	0.68
85:5:210:U:HO2'	85:5:229:G:HO2'	1.40	0.68
85:5:734:C:H2'	85:5:735:A:C8	2.29	0.68
80:6:973:A:H2'	80:6:974:A:C8	2.29	0.68
38:8:78:G:H2'	38:8:79:A:O4'	1.94	0.68
46:L9:87:LYS:NZ	46:L9:191:LEU:HD11	15.48	0.68
49:M3:140:SER:OG	49:M3:141:ALA:N	3.21	0.68
52:M6:182:ASN:O	52:M6:186:ALA:N	4.18	0.68
56:N0:2:ALA:HB3	56:N0:32:SER:HB3	1.75	0.68
64:N8:28:HIS:CE1	64:N8:32:ARG:HE	2.12	0.68
73:O7:45:ARG:NH2	85:5:361:A:O3'	123.49	0.68
9:S7:26:GLU:OE1	9:S7:84:LYS:HE3	3.01	0.68
34:SR:228:LYS:O	34:SR:229:LYS:HG3	1.93	0.68
36:1:2579:G:O6	92:1:3463:OHX:N2	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:329:U:OP2	92:1:3576:OHX:N4	2.27	0.68
1:2:1721:U:O4	92:2:1919:OHX:N4	2.27	0.68
85:5:1470:U:OP1	92:5:3460:OHX:N6	2.27	0.68
13:C1:21:ASN:N	13:C1:21:ASN:OD1	3.42	0.68
18:C6:14:LYS:O	18:C6:123:ARG:NH1	2.27	0.68
18:C6:31:VAL:O	18:C6:33:GLY:N	2.26	0.68
40:L3:246:LEU:O	40:L3:248:LYS:N	2.91	0.68
36:1:3276:G:H5'	43:L6:48:ARG:NH2	2.09	0.68
6:S4:87:MET:SD	6:S4:123:LEU:HB2	2.80	0.68
8:S6:27:PHE:CE1	8:S6:36:VAL:HG11	2.28	0.68
11:S9:41:GLU:OE1	11:S9:126:ARG:NH2	2.27	0.68
1:2:1079:C:H4'	1:2:1082:U:H4'	1.76	0.68
1:2:1464:C:O2'	1:2:1465:C:O5'	2.12	0.68
1:2:783:U:O4	92:2:1931:OHX:N5	2.27	0.68
37:3:40:C:H4'	48:M1:43:GLN:NE2	2.08	0.68
38:4:142:C:OP1	51:M5:38:ARG:NH1	2.27	0.68
85:5:1781:C:H2'	85:5:1782:U:C6	2.29	0.68
85:5:3232:G:H1	85:5:3255:U:H3	1.38	0.68
85:5:423:A:H2'	85:5:424:G:O4'	1.94	0.68
85:5:835:G:HO2'	85:5:836:A:P	2.16	0.68
80:6:1142:A:H2'	80:6:1143:A:O4'	1.94	0.68
37:7:106:U:H2'	37:7:107:C:O4'	1.94	0.68
19:C7:26:LEU:HD13	19:C7:59:LYS:HG3	1.76	0.68
22:D0:28:SER:HB2	22:D0:112:VAL:HA	1.76	0.68
39:L2:130:SER:OG	85:5:2179:C:O2'	215.58	0.68
41:L4:26:PHE:HE2	41:L4:258:LEU:HD23	2.87	0.68
49:M3:75:PHE:H	49:M3:97:VAL:HA	1.73	0.68
51:M5:97:SER:O	51:M5:100:ALA:N	2.51	0.68
75:O9:28:ARG:NH1	75:O9:36:ARG:HH11	6.90	0.68
3:S1:39:GLU:O	3:S1:41:ARG:HG3	4.28	0.68
6:S4:130:GLN:HG2	6:S4:138:TYR:CZ	4.80	0.68
8:S6:67:VAL:HG21	8:S6:99:GLY:HA2	1.95	0.68
36:1:2534:G:N2	36:1:2545:C:N3	2.38	0.67
36:1:435:C:H2'	36:1:436:A:H8	1.59	0.67
1:2:1540:U:OP2	1:2:1542:A:O2'	2.09	0.67
85:5:1135:A:C2	85:5:1136:A:C8	2.82	0.67
61:N5:46:TYR:OH	85:5:18:G:OP2	83.33	0.67
92:5:3481:OHX:N2	92:5:3702:OHX:N5	2.42	0.67
80:6:1138:A:H2'	80:6:1139:A:H8	1.59	0.67
28:D6:87:ARG:NH1	80:6:1796:C:OP1	343.96	0.67
16:C4:86:THR:HG21	16:C4:90:ARG:HH21	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:C8:41:ARG:HD3	80:6:1565:C:OP1	368.10	0.67
20:C8:42:TYR:HE2	20:C8:73:MET:HG3	3.76	0.67
20:C8:18:LEU:HD21	20:C8:70:VAL:HG13	1.76	0.67
22:D0:106:ILE:HG13	22:D0:107:THR:H	1.59	0.67
40:L3:229:VAL:HG11	40:L3:249:VAL:HG22	4.10	0.67
41:L4:33:ASP:O	41:L4:37:THR:HG23	1.94	0.67
44:L7:219:LYS:O	44:L7:228:SER:HB2	2.88	0.67
46:L9:77:ASN:HB3	46:L9:151:VAL:HG21	1.75	0.67
56:N0:34:GLU:O	56:N0:38:LYS:HG3	2.27	0.67
62:N6:56:VAL:HG11	62:N6:104:LEU:HD13	2.14	0.67
63:N7:88:ASP:HB3	63:N7:121:ARG:HH12	4.41	0.67
6:S4:37:LYS:HG2	80:6:297:U:H5''	349.20	0.67
36:1:1720:U:C4	55:M9:124:TYR:CE2	2.82	0.67
36:1:2402:A:OP2	92:1:3620:OHX:N6	2.28	0.67
36:1:873:C:H5''	36:1:874:U:O5'	1.93	0.67
1:2:176:C:OP1	92:2:1952:OHX:N3	2.26	0.67
37:3:30:G:C6	37:3:31:U:C4	2.83	0.67
37:3:85:G:O2'	37:3:87:G:OP1	2.11	0.67
85:5:177:U:OP2	92:5:3519:OHX:N6	2.27	0.67
85:5:2291:A:H2'	85:5:2292:U:O4'	1.94	0.67
85:5:3241:G:H2'	85:5:3245:A:C8	2.29	0.67
20:C8:89:GLN:NE2	80:6:1548:G:H1'	373.51	0.67
28:D6:45:VAL:HG11	28:D6:53:LEU:HG	2.76	0.67
1:2:1182:G:C5	31:D9:40:ARG:HD3	2.29	0.67
40:L3:81:THR:HG23	40:L3:321:PHE:HA	4.75	0.67
46:L9:172:ILE:HG13	76:Q0:90:ASN:HB3	1.75	0.67
64:N8:125:VAL:O	64:N8:146:GLU:N	2.27	0.67
11:S9:92:LYS:O	11:S9:94:ASP:N	2.28	0.67
34:SR:38:ARG:HA	34:SR:67:ILE:HG23	1.76	0.67
36:1:2836:C:H5	36:1:2852:C:H42	1.41	0.67
85:5:132:C:H2'	85:5:133:U:H5''	1.74	0.67
21:C9:3:GLY:HA3	80:6:1364:G:H22	429.65	0.67
80:6:1753:A:H3'	80:6:1754:A:H2'	1.77	0.67
37:7:80:G:N1	37:7:100:C:N3	2.41	0.67
47:M0:61:SER:HB2	47:M0:63:GLU:HG2	1.77	0.67
51:M5:69:GLY:O	85:5:290:G:H4'	145.18	0.67
62:N6:5:SER:OG	62:N6:6:LEU:N	2.24	0.67
36:1:1634:G:N7	63:N7:17:ARG:NH2	2.42	0.67
78:Q2:11:TYR:HA	78:Q2:20:HIS:HA	2.15	0.67
36:1:2717:U:OP1	92:1:3518:OHX:N6	2.27	0.67
53:M7:138:LYS:HE3	85:5:2356:A:H5'	149.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:2771:U:O2'	85:5:2772:C:O4'	2.12	0.67
80:6:1004:U:O4	92:5:3459:OHX:N2	2.27	0.67
85:5:1790:G:O6	92:5:3700:OHX:N4	2.27	0.67
54:M8:141:ARG:NH2	85:5:744:A:N3	179.84	0.67
80:6:1761:U:O4	92:6:2046:OHX:N2	2.28	0.67
39:L2:104:LEU:HD22	39:L2:162:ALA:O	2.33	0.67
39:L2:227:ARG:HG2	39:L2:239:ALA:HB2	1.76	0.67
41:L4:179:LEU:O	41:L4:181:VAL:O	2.13	0.67
41:L4:258:LEU:O	41:L4:260:GLN:N	2.28	0.67
42:L5:283:ALA:HA	42:L5:286:VAL:HB	3.00	0.67
51:M5:170:LYS:O	51:M5:173:GLY:N	2.15	0.67
69:O3:25:PRO:O	69:O3:88:ASN:ND2	2.28	0.67
72:O6:94:ILE:HA	72:O6:98:ARG:HD3	1.75	0.67
2:S0:198:MET:SD	19:C7:88:VAL:HG13	2.35	0.67
11:S9:108:ARG:HH21	11:S9:145:SER:HB2	1.59	0.67
36:1:1321:G:O3'	56:N0:117:ARG:NH2	2.27	0.67
36:1:153:U:O2'	36:1:158:G:O2'	2.12	0.67
36:1:1819:U:O4	92:1:3574:OHX:N4	2.28	0.67
85:5:2251:G:O6	92:5:3450:OHX:N6	2.27	0.67
80:6:461:G:H2'	80:6:462:G:H8	1.59	0.67
26:D4:66:GLY:H	80:6:532:U:H5''	429.91	0.67
40:L3:62:ARG:O	40:L3:64:GLY:N	2.28	0.67
41:L4:23:PRO:HD2	41:L4:26:PHE:CD2	2.30	0.67
42:L5:269:SER:OG	37:7:1:G:N2	315.71	0.67
43:L6:56:LYS:HD2	43:L6:98:VAL:HG13	1.77	0.67
46:L9:25:VAL:O	46:L9:35:THR:HA	2.49	0.67
51:M5:36:ILE:HG13	51:M5:64:VAL:HG23	1.75	0.67
52:M6:3:VAL:HG13	52:M6:4:GLU:HG3	1.75	0.67
65:N9:23:LYS:HB3	65:N9:24:PRO:CD	2.65	0.67
79:Q3:70:THR:HG23	79:Q3:72:SER:H	1.60	0.67
92:2:1921:OHX:N1	92:2:2040:OHX:N3	2.43	0.67
1:2:197:A:H61	10:S8:138:ASN:ND2	1.93	0.67
1:2:309:C:O2	1:2:357:G:N2	2.24	0.67
1:2:480:G:N2	1:2:509:G:H1'	2.09	0.67
85:5:900:G:H1'	85:5:1589:A:N6	2.10	0.67
31:D9:34:TYR:OH	80:6:1487:A:OP1	418.75	0.67
19:C7:107:SER:O	19:C7:110:VAL:HG23	3.62	0.67
25:D3:92:CYS:HA	25:D3:95:PHE:HD2	2.16	0.67
23:D1:64:GLU:OE1	29:D7:3:LEU:HB2	1.93	0.67
41:L4:12:THR:OG1	41:L4:12:THR:O	3.11	0.67
41:L4:338:LYS:O	41:L4:340:GLY:N	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:M4:128:ARG:HD3	50:M4:132:LYS:HD2	1.76	0.67
41:L4:280:ILE:HD13	54:M8:23:ASN:HD21	2.11	0.67
55:M9:6:THR:HG23	55:M9:9:ARG:NH1	4.61	0.67
69:O3:13:HIS:O	69:O3:95:GLY:N	2.24	0.67
5:S3:162:GLN:O	5:S3:165:ASN:N	2.28	0.67
34:SR:25:THR:HG21	34:SR:295:SER:HA	2.37	0.67
36:1:1675:G:H2'	36:1:1676:A:H8	1.60	0.67
1:2:330:G:C6	1:2:331:A:C6	2.83	0.67
92:5:3534:OHX:N5	92:5:3580:OHX:N6	2.43	0.67
80:6:1161:C:OP1	92:6:2039:OHX:N6	2.27	0.67
80:6:1620:C:H2'	80:6:1621:U:H6	1.59	0.67
80:6:1668:G:N1	80:6:1733:C:N3	2.35	0.67
37:7:58:C:H2'	37:7:59:U:H6	1.59	0.67
21:C9:117:SER:HB2	21:C9:123:ARG:HB2	1.76	0.67
24:D2:85:ASP:HA	24:D2:88:LYS:HG3	1.77	0.67
25:D3:44:GLY:H	25:D3:78:LYS:HZ1	1.40	0.67
27:D5:65:LEU:HB3	27:D5:71:ILE:HD13	1.77	0.67
45:L8:78:PHE:C	45:L8:80:TYR:H	1.98	0.67
45:L8:78:PHE:O	45:L8:80:TYR:N	2.25	0.67
48:M1:110:ILE:O	48:M1:112:LEU:N	2.27	0.67
48:M1:28:ASP:HA	48:M1:31:THR:HG23	2.83	0.67
62:N6:56:VAL:HG23	62:N6:106:ILE:HA	2.52	0.67
63:N7:25:ILE:HG23	63:N7:41:ALA:HB1	1.76	0.67
71:O5:13:SER:O	71:O5:16:GLN:N	2.25	0.67
36:1:109:A:H4'	36:1:110:G:OP1	1.93	0.67
92:1:3507:OHX:N1	92:1:3691:OHX:N1	2.42	0.67
1:2:1569:A:H1'	1:2:1594:A:N6	2.09	0.67
33:E1:97:LYS:NZ	80:6:1253:U:O4	439.97	0.67
80:6:696:C:H4'	80:6:697:C:H6	1.58	0.67
6:S4:187:ARG:NH2	80:6:753:A:H62	374.28	0.67
27:D5:47:TYR:CE1	27:D5:51:LEU:HD11	3.62	0.67
40:L3:187:SER:HB3	40:L3:190:GLU:HG3	4.16	0.67
41:L4:8:VAL:HB	41:L4:16:THR:HG21	2.95	0.67
47:M0:38:LYS:HG2	47:M0:41:ALA:HB2	1.94	0.67
37:3:52:G:N2	48:M1:9:MET:SD	2.68	0.67
51:M5:85:THR:C	51:M5:87:GLN:H	2.71	0.67
55:M9:43:LYS:NZ	85:5:1766:G:OP2	95.10	0.67
55:M9:15:VAL:HG11	55:M9:52:LYS:HD2	4.85	0.67
56:N0:10:ILE:O	56:N0:59:VAL:N	2.75	0.67
36:1:2294:U:OP2	59:N3:71:LYS:HE2	1.94	0.67
2:S0:122:ILE:HG23	2:S0:144:ILE:HB	2.99	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:356:G:OP2	92:2:1914:OHX:N6	2.28	0.67
13:C1:33:ARG:NH2	13:C1:51:GLY:O	3.24	0.67
16:C4:104:ALA:HA	16:C4:107:ARG:HB3	2.95	0.67
27:D5:74:SER:HA	27:D5:77:ARG:NH2	3.19	0.67
42:L5:107:ARG:NH1	42:L5:248:ARG:HH21	3.70	0.67
51:M5:190:THR:HG22	51:M5:193:ARG:HH21	1.58	0.67
56:N0:82:ASP:OD1	56:N0:87:THR:HB	1.95	0.67
66:O0:16:LEU:O	66:O0:20:SER:OG	2.65	0.67
70:O4:41:ARG:HG2	70:O4:56:THR:HG21	1.77	0.67
4:S2:97:ARG:H	4:S2:97:ARG:HD2	1.60	0.67
1:2:514:G:H1	1:2:543:C:H5	1.43	0.67
92:5:3534:OHX:N1	92:5:3580:OHX:N4	2.43	0.67
17:C5:19:GLY:N	20:C8:93:THR:O	2.28	0.67
41:L4:8:VAL:HG12	41:L4:9:HIS:N	2.10	0.67
46:L9:122:LYS:HD3	46:L9:123:ILE:N	4.27	0.67
54:M8:148:GLU:OE1	54:M8:152:HIS:NE2	2.27	0.67
55:M9:28:GLU:O	55:M9:32:ILE:HG13	2.31	0.67
36:1:1320:C:O2	56:N0:115:ARG:NH2	2.27	0.67
36:1:2895:G:O2'	76:Q0:100:TYR:O	2.09	0.67
36:1:2897:A:H5''	76:Q0:125:LYS:HG3	1.75	0.67
8:S6:120:GLU:HG3	8:S6:125:THR:HB	1.77	0.67
19:C7:34:LEU:HD23	19:C7:38:ILE:HG21	1.75	0.66
21:C9:72:GLY:HA3	80:6:1498:G:H5''	420.27	0.66
39:L2:202:VAL:O	39:L2:217:GLN:HG2	1.95	0.66
42:L5:257:GLU:O	42:L5:258:LYS:HG2	4.80	0.66
44:L7:102:VAL:HG13	44:L7:126:LEU:HD22	2.90	0.66
54:M8:161:LYS:O	54:M8:162:ALA:HB3	1.95	0.66
78:Q2:73:GLU:OE1	78:Q2:80:ARG:NH1	4.11	0.66
3:S1:168:ILE:HG12	3:S1:197:ILE:HD12	1.78	0.66
6:S4:163:ASP:O	6:S4:165:ALA:N	2.28	0.66
36:1:3013:U:H2'	36:1:3014:U:C6	2.30	0.66
36:1:413:U:OP1	53:M7:30:ARG:NH2	2.27	0.66
1:2:641:G:H1	1:2:676:U:H3	1.43	0.66
38:4:103:G:O6	92:4:204:OHX:N6	2.28	0.66
27:D5:85:LYS:HG3	27:D5:86:GLU:N	2.08	0.66
40:L3:142:ALA:O	40:L3:145:GLU:N	3.22	0.66
46:L9:79:ILE:O	46:L9:82:VAL:HG12	1.96	0.66
53:M7:25:SER:HB3	53:M7:28:ASN:HB2	1.91	0.66
63:N7:115:LYS:NZ	63:N7:119:GLU:OE2	2.27	0.66
36:1:1807:G:H5'	63:N7:135:ARG:NH2	2.09	0.66
70:O4:38:LEU:HD12	70:O4:38:LEU:H	2.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:Q3:17:ARG:O	79:Q3:19:GLY:N	2.47	0.66
7:S5:204:GLY:HA2	7:S5:211:ILE:HG13	1.77	0.66
8:S6:61:PHE:CE1	8:S6:96:SER:HB2	2.29	0.66
1:2:901:U:H2'	1:2:902:A:H8	1.60	0.66
37:3:76:A:O2'	56:N0:50:LYS:HE3	1.94	0.66
85:5:2812:C:H2'	85:5:2813:A:C8	2.30	0.66
80:6:1524:A:H2'	80:6:1525:A:C8	2.31	0.66
51:M5:190:THR:HG22	51:M5:193:ARG:NH2	2.10	0.66
51:M5:73:ARG:NH1	51:M5:88:GLY:O	2.38	0.66
55:M9:69:SER:O	55:M9:74:ARG:HB2	2.48	0.66
70:O4:99:LYS:HB3	70:O4:103:LYS:HZ1	1.59	0.66
71:O5:101:THR:HG23	71:O5:104:GLN:H	3.43	0.66
2:S0:153:SER:O	2:S0:156:VAL:HG22	2.53	0.66
7:S5:133:VAL:HG22	7:S5:198:LEU:HD13	1.75	0.66
8:S6:142:ARG:HA	8:S6:147:LEU:HD12	2.70	0.66
36:1:1903:U:C2	36:1:1905:G:OP2	2.48	0.66
85:5:1614:C:H2'	85:5:1615:C:H6	1.61	0.66
92:5:3522:OHX:N5	92:5:3721:OHX:N2	2.44	0.66
49:M3:59:ARG:HD3	85:5:73:C:O2	91.40	0.66
85:5:801:A:H4'	85:5:802:C:O5'	1.94	0.66
26:D4:121:THR:OG1	80:6:149:C:OP1	334.62	0.66
11:S9:143:ILE:HG12	80:6:768:C:C2	417.13	0.66
16:C4:121:VAL:O	80:6:886:U:O2'	287.54	0.66
17:C5:50:THR:CA	17:C5:50:THR:CG2	2.71	0.66
21:C9:38:LYS:O	21:C9:40:SER:N	2.27	0.66
24:D2:114:GLU:O	24:D2:117:ARG:HB3	2.57	0.66
33:E1:102:VAL:O	33:E1:104:SER:N	2.26	0.66
40:L3:284:ARG:NH1	40:L3:356:LEU:HD12	2.10	0.66
45:L8:152:LEU:HB3	45:L8:180:VAL:HG21	2.13	0.66
49:M3:167:PHE:CE1	64:N8:132:LYS:HB2	2.30	0.66
50:M4:113:THR:HB	50:M4:116:GLU:HG3	1.76	0.66
36:1:3214:U:O4	50:M4:124:ARG:NH1	2.29	0.66
41:L4:354:VAL:HG11	57:N1:143:THR:HG21	2.70	0.66
78:Q2:17:CYS:HB2	94:Q2:501:ZN:ZN	1.39	0.66
36:1:1951:C:H42	36:1:2095:G:H1	1.43	0.66
85:5:1087:G:N7	92:5:3609:OHX:N4	2.43	0.66
85:5:518:G:OP2	85:5:518:G:N2	2.26	0.66
16:C4:123:SER:HB2	80:6:885:G:N2	286.07	0.66
19:C7:71:PHE:CZ	19:C7:74:GLN:HB2	5.39	0.66
39:L2:112:ILE:HG22	39:L2:135:ILE:HG12	5.48	0.66
42:L5:158:ARG:HB2	37:7:46:A:OP1	279.06	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3024:A:HO2'	46:L9:97:PHE:HE2	1.44	0.66
51:M5:150:TRP:O	51:M5:152:CYS:N	2.28	0.66
55:M9:116:ASP:OD2	55:M9:118:HIS:N	4.71	0.66
56:N0:167:ARG:HG3	56:N0:168:PRO:HD2	2.11	0.66
69:O3:37:THR:HG23	69:O3:40:ASP:HB2	2.64	0.66
69:O3:86:ARG:O	92:O3:201:OHX:N1	2.29	0.66
36:1:3132:C:H2'	36:1:3133:C:C6	2.30	0.66
92:1:3612:OHX:N1	72:O6:28:TYR:O	2.29	0.66
36:1:975:C:H2'	36:1:976:U:C6	2.29	0.66
36:1:999:G:C6	36:1:1000:C:N4	2.63	0.66
1:2:603:U:H2'	1:2:604:A:H8	1.59	0.66
85:5:2112:U:O2	92:5:3479:OHX:N1	2.29	0.66
85:5:2180:G:H2'	85:5:2181:C:C6	2.29	0.66
85:5:2847:A:C2	85:5:2898:G:H2'	2.30	0.66
85:5:3218:A:H5''	85:5:3219:G:C8	2.30	0.66
85:5:997:A:O2'	37:7:79:A:N3	2.28	0.66
80:6:1638:G:C2	80:6:1639:C:H1'	2.30	0.66
80:6:2:A:C8	80:6:370:A:H1'	2.31	0.66
85:5:1054:A:OP1	92:7:208:OHX:N4	2.29	0.66
30:D8:32:PHE:HZ	30:D8:38:ARG:NE	1.93	0.66
41:L4:200:THR:HG22	41:L4:202:ARG:NH2	3.03	0.66
36:1:1334:U:O2'	44:L7:151:ARG:NH2	2.29	0.66
44:L7:157:ASN:O	44:L7:159:GLN:N	3.69	0.66
46:L9:103:ILE:HG13	46:L9:136:PHE:HE2	1.59	0.66
47:M0:150:GLU:HB2	47:M0:153:ARG:HH21	6.14	0.66
78:Q2:74:CYS:HB3	78:Q2:77:CYS:SG	2.69	0.66
36:1:1636:U:H5''	63:N7:73:LYS:NZ	2.11	0.66
36:1:230:U:H2'	36:1:231:G:O4'	1.96	0.66
36:1:718:G:C2	36:1:721:G:H1'	2.30	0.66
85:5:3241:G:H2'	85:5:3245:A:H8	1.61	0.66
85:5:2403:G:P	92:5:3724:OHX:N4	2.68	0.66
18:C6:16:ALA:HB2	18:C6:72:GLY:HA3	1.78	0.66
22:D0:25:THR:HB	22:D0:115:GLU:HG2	5.57	0.66
28:D6:51:ARG:NH2	28:D6:55:GLU:OE1	2.28	0.66
42:L5:56:THR:O	42:L5:58:LYS:N	2.29	0.66
44:L7:159:GLN:O	44:L7:160:ARG:C	2.34	0.66
46:L9:103:ILE:HG22	46:L9:104:VAL:H	2.40	0.66
48:M1:12:LEU:HD21	48:M1:159:THR:HG22	5.93	0.66
49:M3:2:ALA:HB3	64:N8:33:GLY:O	1.96	0.66
51:M5:119:TYR:OH	51:M5:131:GLU:OE1	2.06	0.66
55:M9:134:HIS:CE1	55:M9:137:ALA:HB2	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:O0:66:LYS:N	66:O0:66:LYS:HD2	4.80	0.66
69:O3:6:ARG:HG3	69:O3:8:TYR:CD1	2.87	0.66
2:S0:195:TRP:NE1	2:S0:197:ILE:HD13	5.70	0.66
36:1:1460:A:H2'	36:1:1461:A:H8	1.60	0.66
36:1:1756:C:H42	36:1:1769:G:H1	1.41	0.66
36:1:626:U:O4	92:1:3532:OHX:N5	2.29	0.66
1:2:1442:C:OP1	20:C8:126:ARG:NH2	2.29	0.66
1:2:901:U:H2'	1:2:902:A:C8	2.31	0.66
85:5:188:U:H1'	85:5:208:C:H1'	1.76	0.66
85:5:3159:C:H2'	85:5:3160:U:C6	2.31	0.66
80:6:992:A:O2'	80:6:1785:U:O2	2.14	0.66
22:D0:80:GLU:OE1	22:D0:82:TYR:OH	2.72	0.66
41:L4:294:GLU:N	41:L4:294:GLU:OE1	2.25	0.66
46:L9:8:GLN:HG2	46:L9:68:LEU:HD13	2.08	0.66
48:M1:96:PHE:CD1	48:M1:160:VAL:HG23	4.13	0.66
56:N0:9:VAL:HG22	56:N0:61:ILE:HD13	2.58	0.66
63:N7:103:GLN:HB3	63:N7:106:GLN:HG3	5.00	0.66
68:O2:27:ARG:HD3	85:5:655:C:OP2	161.23	0.66
68:O2:89:THR:HG23	68:O2:90:LYS:H	4.01	0.66
72:O6:90:MET:HA	72:O6:93:ILE:HG12	1.77	0.66
8:S6:48:TYR:CD2	8:S6:117:GLY:HA3	2.74	0.66
36:1:1015:U:O2'	36:1:1017:C:OP2	2.13	0.66
36:1:1103:A:H1'	36:1:1104:G:OP1	1.96	0.66
36:1:1222:G:O2'	36:1:1285:G:N1	2.29	0.66
36:1:147:U:OP2	45:L8:136:LEU:N	2.23	0.66
36:1:691:A:OP1	41:L4:46:LYS:NZ	2.26	0.66
1:2:1433:U:H2'	1:2:1434:C:C6	2.31	0.66
1:2:329:G:H2'	1:2:330:G:C8	2.31	0.66
1:2:801:C:N4	1:2:802:G:O6	2.27	0.66
1:2:879:U:O4'	16:C4:38:THR:HG21	1.96	0.66
85:5:1239:C:H42	85:5:1249:G:H1	1.44	0.66
85:5:2812:C:H2'	85:5:2813:A:H8	1.60	0.66
85:5:314:U:O4	92:5:3694:OHX:N5	2.29	0.66
16:C4:133:ARG:HH21	16:C4:136:ARG:HH11	1.42	0.66
32:E0:37:ARG:NH1	80:6:478:A:OP1	439.36	0.66
42:L5:233:ALA:O	42:L5:235:SER:N	2.29	0.66
43:L6:7:PRO:HG2	43:L6:10:TYR:CZ	2.31	0.66
43:L6:139:LYS:O	43:L6:143:LYS:HG3	1.95	0.66
49:M3:185:LYS:HG3	49:M3:188:ARG:NH1	5.02	0.66
61:N5:82:LEU:HD12	61:N5:126:LEU:HD21	1.78	0.66
67:O1:14:ILE:HG13	67:O1:19:ARG:NH1	2.10	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S2:101:VAL:HG22	4:S2:115:ILE:HG12	1.77	0.66
36:1:781:G:N7	92:1:3477:OHX:N5	2.44	0.66
1:2:1148:G:C6	1:2:1149:A:C6	2.83	0.66
52:M6:114:LYS:HG2	85:5:3180:A:C6	270.01	0.66
85:5:408:A:P	92:5:3601:OHX:N6	2.69	0.66
3:S1:216:LYS:NZ	80:6:886:U:OP2	276.78	0.66
42:L5:217:GLU:HG2	42:L5:218:ARG:N	2.11	0.66
49:M3:56:PRO:HG3	49:M3:74:GLY:O	2.01	0.66
62:N6:100:HIS:ND1	62:N6:102:SER:HB3	3.16	0.66
69:O3:49:ILE:HD13	69:O3:100:ILE:HG13	2.96	0.66
7:S5:113:ILE:O	7:S5:117:THR:OG1	2.10	0.66
35:SM:64:LYS:O	35:SM:65:THR:OG1	2.10	0.66
36:1:813:G:H5'	73:O7:47:TYR:OH	1.97	0.65
37:3:79:A:C2	37:3:102:A:C4	2.84	0.65
85:5:1227:C:N4	85:5:1282:G:O6	2.19	0.65
41:L4:197:ARG:NH1	85:5:1381:A:OP1	108.84	0.65
45:L8:241:LYS:HB2	85:5:2586:G:N7	184.71	0.65
80:6:1734:U:O4	92:6:1976:OHX:N1	2.29	0.65
80:6:751:G:H2'	80:6:752:A:H8	1.59	0.65
42:L5:270:LYS:HB3	37:7:1:G:O2'	321.59	0.65
23:D1:73:ALA:HB1	23:D1:78:LEU:HG	1.77	0.65
40:L3:76:VAL:HG12	40:L3:325:LYS:HA	1.78	0.65
41:L4:187:LEU:HD23	41:L4:198:ARG:O	2.39	0.65
48:M1:37:LEU:O	48:M1:41:SER:OG	2.14	0.65
74:O8:44:LYS:HG2	74:O8:53:THR:HB	2.28	0.65
4:S2:106:ASP:OD1	4:S2:108:ASN:N	2.23	0.65
4:S2:116:LYS:HG2	4:S2:127:ALA:HB3	1.77	0.65
1:2:393:C:OP2	10:S8:2:GLY:N	2.29	0.65
85:5:1443:G:O6	92:5:3512:OHX:N5	2.30	0.65
16:C4:17:ALA:HB3	16:C4:81:VAL:HA	1.78	0.65
18:C6:97:VAL:CG2	18:C6:98:ASP:H	2.49	0.65
47:M0:171:TRP:O	47:M0:174:THR:HG22	1.95	0.65
48:M1:155:THR:OG1	48:M1:158:ASP:N	2.17	0.65
50:M4:102:LYS:O	50:M4:106:ARG:HG2	1.96	0.65
51:M5:58:GLY:HA3	51:M5:142:ILE:CD1	2.27	0.65
55:M9:155:LEU:HA	55:M9:158:GLU:HG2	1.79	0.65
61:N5:136:ALA:O	61:N5:139:ILE:HG23	1.95	0.65
36:1:2274:U:OP1	92:1:3501:OHX:N3	2.29	0.65
36:1:2726:C:OP1	92:1:3662:OHX:N3	2.30	0.65
36:1:439:C:H3'	36:1:440:A:H8	1.61	0.65
36:1:603:A:C5	36:1:604:G:H1'	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:1808:G:O6	92:5:3525:OHX:N3	2.28	0.65
80:6:310:C:H2'	80:6:311:U:H6	1.62	0.65
18:C6:114:ARG:O	18:C6:115:THR:OG1	2.13	0.65
40:L3:117:ARG:CZ	40:L3:175:LYS:HD3	3.60	0.65
40:L3:183:LEU:O	40:L3:191:LYS:NZ	2.30	0.65
40:L3:257:PRO:O	40:L3:259:HIS:N	2.26	0.65
46:L9:150:SER:O	46:L9:154:VAL:HG23	2.54	0.65
49:M3:58:VAL:O	49:M3:69:VAL:HG22	1.96	0.65
59:N3:87:ARG:HH22	59:N3:137:VAL:CG2	2.08	0.65
62:N6:3:LYS:HD2	62:N6:8:VAL:O	2.76	0.65
36:1:660:A:C2	36:1:1435:A:C2	2.84	0.65
36:1:1742:U:H2'	36:1:1743:G:C8	2.31	0.65
36:1:592:A:H2'	36:1:593:C:H6	1.61	0.65
13:C1:128:CYS:O	13:C1:129:ARG:HB3	4.37	0.65
39:L2:70:ARG:CD	39:L2:72:ARG:HE	5.55	0.65
40:L3:303:LYS:HD2	40:L3:361:THR:HG21	1.78	0.65
46:L9:9:GLN:HG2	46:L9:52:LEU:HD11	1.78	0.65
54:M8:100:THR:HG23	54:M8:120:GLU:HB3	1.78	0.65
1:2:834:U:H5''	55:M9:172:ARG:NH1	2.12	0.65
64:N8:4:ARG:NH2	85:5:1427:U:OP2	134.16	0.65
65:N9:6:ASN:HB2	85:5:1135:A:OP1	224.28	0.65
38:4:68:G:OP2	92:O7:102:OHX:N6	2.30	0.65
38:4:52:A:H62	75:O9:27:ILE:HD13	1.60	0.65
2:S0:70:PRO:O	2:S0:95:ALA:N	2.23	0.65
3:S1:28:GLU:OE2	3:S1:94:LYS:NZ	2.29	0.65
1:2:66:U:H5	8:S6:173:PRO:HG3	1.60	0.65
36:1:2102:U:H2'	36:1:2103:U:C6	2.32	0.65
36:1:2948:C:O2'	40:L3:242:THR:HG22	1.96	0.65
36:1:3344:A:H2	36:1:3361:G:H21	1.44	0.65
1:2:1568:U:H3	1:2:1594:A:H2	1.45	0.65
45:L8:48:ARG:NH2	85:5:2526:C:O2	186.48	0.65
27:D5:74:SER:OG	80:6:1534:G:OP2	343.36	0.65
38:8:103:G:OP2	38:8:105:A:O2'	2.15	0.65
38:8:149:A:H2'	38:8:150:G:C8	2.32	0.65
17:C5:55:GLY:HA2	17:C5:58:LYS:HD3	1.79	0.65
39:L2:70:ARG:NH1	39:L2:72:ARG:HH21	7.15	0.65
42:L5:68:THR:HB	42:L5:71:GLY:O	1.97	0.65
51:M5:96:ARG:NH2	51:M5:104:GLU:OE1	3.95	0.65
50:M4:16:GLU:HB3	56:N0:149:LYS:HB3	2.70	0.65
61:N5:105:VAL:HG13	61:N5:130:TYR:CG	2.81	0.65
64:N8:65:GLN:O	64:N8:66:ALA:HB3	2.16	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
72:O6:70:ARG:HD3	72:O6:84:LYS:HG2	2.64	0.65
36:1:3268:A:H3'	36:1:3269:U:H3'	1.78	0.65
1:2:1570:A:OP1	18:C6:136:SER:OG	2.15	0.65
1:2:1580:A:OP2	31:D9:32:ARG:NH2	2.30	0.65
13:C1:21:ASN:ND2	13:C1:31:THR:HA	4.19	0.65
17:C5:119:PHE:CE1	20:C8:121:ALA:HB2	2.32	0.65
41:L4:58:HIS:O	41:L4:60:THR:N	2.29	0.65
52:M6:51:LYS:O	52:M6:54:TYR:N	3.32	0.65
36:1:228:U:H5''	62:N6:8:VAL:HG11	1.77	0.65
68:O2:81:ASP:O	68:O2:84:THR:OG1	2.15	0.65
74:O8:24:THR:HG23	74:O8:44:LYS:HB2	2.12	0.65
36:1:1813:A:O2'	36:1:1816:A:N3	2.30	0.65
36:1:180:C:H2'	36:1:181:U:H6	1.60	0.65
36:1:2997:G:C6	36:1:3396:U:C4	2.85	0.65
85:5:510:G:O6	92:5:3524:OHX:N2	2.28	0.65
80:6:1449:U:O4	92:6:1927:OHX:N6	2.29	0.65
16:C4:84:ARG:HB2	16:C4:118:VAL:HG23	1.77	0.65
17:C5:68:PRO:HG2	17:C5:71:GLU:HB3	1.79	0.65
18:C6:38:LEU:O	18:C6:45:ARG:NE	2.29	0.65
15:C3:56:ASP:HA	29:D7:47:PHE:HB3	1.79	0.65
41:L4:265:GLU:N	41:L4:265:GLU:OE1	2.30	0.65
48:M1:96:PHE:HB2	48:M1:156:LYS:HE3	1.79	0.65
51:M5:140:LYS:HA	51:M5:143:ARG:HB2	2.28	0.65
51:M5:90:ASN:O	51:M5:92:LEU:N	3.62	0.65
36:1:290:G:OP1	51:M5:98:LEU:HD22	1.96	0.65
53:M7:110:THR:OG1	53:M7:111:LYS:N	2.29	0.65
55:M9:123:LEU:O	55:M9:127:SER:N	2.27	0.65
61:N5:106:ASP:O	61:N5:127:THR:HG23	1.97	0.65
67:O1:13:THR:HG22	67:O1:72:ARG:HD3	1.79	0.65
6:S4:199:GLU:HB2	6:S4:207:LEU:HB2	1.78	0.65
36:1:2353:G:H5''	53:M7:86:LYS:HB2	1.78	0.65
55:M9:60:LYS:NZ	85:5:1671:C:OP1	168.32	0.65
41:L4:48:GLN:NE2	85:5:337:G:O4'	96.29	0.65
85:5:419:G:O3'	85:5:420:G:OP2	2.13	0.65
80:6:230:C:N3	80:6:235:G:N2	2.40	0.65
80:6:62:A:OP1	92:6:1952:OHX:N2	2.29	0.65
80:6:647:G:H22	80:6:687:G:H1	1.45	0.65
80:6:74:U:C4	80:6:76:A:H5''	2.32	0.65
22:D0:42:VAL:O	22:D0:52:LYS:NZ	2.29	0.65
27:D5:93:SER:OG	27:D5:94:LYS:N	2.27	0.65
41:L4:26:PHE:CD1	41:L4:130:ALA:HB2	3.40	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:23:PRO:HD2	41:L4:26:PHE:HD2	1.60	0.65
44:L7:216:VAL:HG11	44:L7:227:GLY:HA3	4.70	0.65
70:O4:64:THR:OG1	70:O4:64:THR:O	2.20	0.65
2:S0:29:VAL:HG22	2:S0:30:GLN:H	2.61	0.65
3:S1:190:PRO:HG2	3:S1:192:VAL:HG23	2.47	0.65
3:S1:47:LEU:HD12	3:S1:47:LEU:H	2.73	0.65
36:1:999:G:C5	36:1:1000:C:N4	2.65	0.65
36:1:2274:U:OP2	92:1:3501:OHX:N4	2.30	0.65
36:1:402:A:OP1	75:O9:36:ARG:NH2	2.29	0.65
36:1:670:C:OP1	54:M8:147:ARG:NH2	2.30	0.65
1:2:1442:C:H42	20:C8:139:LYS:HE3	1.62	0.65
85:5:1614:C:H2'	85:5:1615:C:C6	2.32	0.65
34:SR:282:SER:OG	80:6:1394:G:OP1	414.31	0.65
80:6:913:G:H3'	80:6:914:G:H5'	1.78	0.65
18:C6:120:ASP:OD1	18:C6:121:SER:N	2.29	0.65
24:D2:20:THR:OG1	24:D2:22:LYS:HD3	2.10	0.65
33:E1:144:CYS:HB3	33:E1:147:VAL:HB	1.77	0.65
40:L3:339:ARG:NH1	40:L3:342:LEU:HD21	3.02	0.65
97:1:3403:SPS:C5	98:P:101:8AN:O5'	2.45	0.65
4:S2:228:ASN:N	4:S2:228:ASN:OD1	3.17	0.65
5:S3:166:ASP:O	5:S3:190:ARG:NH2	5.12	0.65
8:S6:57:ASP:OD1	8:S6:98:ARG:HG3	1.97	0.65
36:1:1723:A:OP1	55:M9:128:LYS:NZ	2.22	0.65
36:1:2692:A:O5'	36:1:2692:A:H8	1.80	0.65
36:1:2988:C:O2	40:L3:266:ARG:NH1	2.30	0.65
36:1:3:U:H2'	36:1:4:U:H6	1.61	0.65
1:2:297:U:H5''	6:S4:37:LYS:HG2	1.79	0.65
85:5:343:U:OP2	92:5:3428:OHX:N5	2.30	0.65
80:6:1542:G:N2	80:6:1569:A:OP2	2.30	0.65
22:D0:71:PRO:O	22:D0:72:ASN:ND2	5.42	0.65
40:L3:102:LEU:HD23	40:L3:102:LEU:H	1.61	0.65
44:L7:84:VAL:HG12	44:L7:117:VAL:HB	2.23	0.65
48:M1:166:LYS:C	48:M1:168:ASP:H	2.78	0.65
49:M3:129:ASN:HB2	49:M3:131:LYS:HE2	1.79	0.65
41:L4:302:ALA:HB2	54:M8:39:ARG:HH22	2.02	0.65
60:N4:20:LEU:HD23	60:N4:21:PHE:N	2.24	0.65
66:O0:13:LYS:O	66:O0:17:VAL:HG23	2.38	0.65
36:1:2767:U:P	92:1:3670:OHX:N2	2.70	0.64
36:1:1674:G:N7	92:1:3484:OHX:N5	2.45	0.64
36:1:2429:G:OP2	92:1:3521:OHX:N4	2.30	0.64
1:2:539:G:OP2	1:2:539:G:H8	1.81	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:187:A:N7	85:5:188:U:C4	2.65	0.64
85:5:2533:G:N2	85:5:2546:C:N3	2.44	0.64
63:N7:135:ARG:NH2	85:5:2556:C:O2'	199.71	0.64
85:5:3078:U:H4'	85:5:3079:U:O5'	1.97	0.64
46:L9:40:HIS:ND1	85:5:3124:G:H5'	310.64	0.64
85:5:585:A:H2'	85:5:586:C:C6	2.32	0.64
80:6:1769:U:OP2	92:6:1995:OHX:N2	2.31	0.64
13:C1:128:CYS:SG	13:C1:129:ARG:N	3.34	0.64
18:C6:113:ASP:HA	18:C6:116:LEU:HD23	1.78	0.64
22:D0:41:ILE:HG13	22:D0:107:THR:HG21	3.32	0.64
41:L4:11:LEU:HD21	41:L4:155:ASP:HB2	1.77	0.64
36:1:209:A:P	41:L4:161:LYS:HZ1	2.20	0.64
2:S0:134:LYS:O	2:S0:137:SER:OG	2.22	0.64
2:S0:90:ALA:HB2	2:S0:97:PRO:HB3	2.58	0.64
1:2:772:A:O2'	6:S4:106:LYS:NZ	2.30	0.64
7:S5:73:THR:HG23	18:C6:114:ARG:HD2	1.79	0.64
8:S6:78:THR:O	8:S6:81:VAL:HB	2.56	0.64
11:S9:113:VAL:HG21	11:S9:134:ILE:HD12	1.79	0.64
34:SR:123:ILE:HG22	34:SR:133:VAL:HG22	1.79	0.64
34:SR:133:VAL:O	34:SR:141:LEU:N	2.89	0.64
36:1:3274:A:H2'	53:M7:171:ARG:HH12	1.62	0.64
36:1:617:G:H4'	53:M7:171:ARG:HH21	1.62	0.64
1:2:1525:G:N2	1:2:1551:C:H1'	2.11	0.64
85:5:1541:G:C5	85:5:1542:G:H1'	2.32	0.64
85:5:3160:U:H3	85:5:3290:G:H1	1.44	0.64
85:5:3259:U:H5''	85:5:3261:C:H5	1.62	0.64
85:5:3269:U:H5'	85:5:3271:G:O4'	1.97	0.64
20:C8:132:ARG:CZ	80:6:1544:U:H4'	344.95	0.64
12:C0:1:MET:SD	12:C0:2:LEU:N	2.66	0.64
12:C0:53:GLY:O	12:C0:55:VAL:N	2.30	0.64
29:D7:31:TYR:HB2	29:D7:81:ARG:HD3	2.68	0.64
47:M0:50:VAL:O	47:M0:138:VAL:HG23	1.97	0.64
47:M0:67:ALA:HB2	85:5:2852:C:O2'	305.82	0.64
48:M1:94:ARG:O	48:M1:96:PHE:N	2.30	0.64
49:M3:81:LYS:C	49:M3:83:ALA:H	2.83	0.64
58:N2:54:VAL:HG12	58:N2:67:SER:HA	1.78	0.64
64:N8:67:HIS:NE2	85:5:71:A:OP2	119.15	0.64
69:O3:80:VAL:HG12	69:O3:81:VAL:H	1.63	0.64
70:O4:107:GLU:HG2	70:O4:110:GLU:OE1	5.01	0.64
72:O6:94:ILE:HD13	72:O6:97:SER:HB2	9.44	0.64
34:SR:37:SER:OG	34:SR:39:ASP:OD2	2.11	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1306:G:C6	52:M6:62:THR:HA	2.32	0.64
85:5:1329:U:HO2'	85:5:1330:A:P	2.19	0.64
85:5:2761:G:O2'	85:5:2795:U:O4	2.12	0.64
51:M5:32:GLN:O	92:5:3457:OHX:N4	147.47	0.64
85:5:621:A:H2'	85:5:622:A:C8	2.32	0.64
80:6:447:U:C4	80:6:448:C:C4	2.86	0.64
80:6:90:C:H2'	80:6:91:G:H8	1.61	0.64
16:C4:107:ARG:HB2	16:C4:107:ARG:NH2	3.53	0.64
16:C4:136:ARG:HD2	80:6:1769:U:O2	302.35	0.64
17:C5:22:LEU:HA	17:C5:25:LEU:HB2	2.89	0.64
1:2:970:G:C2	39:L2:249:SER:HB2	2.31	0.64
45:L8:60:ARG:O	45:L8:64:ILE:HG13	2.72	0.64
46:L9:76:ASP:O	46:L9:79:ILE:N	2.30	0.64
49:M3:50:PRO:O	49:M3:52:ASP:N	2.31	0.64
62:N6:28:ARG:HB2	62:N6:75:ARG:CZ	2.27	0.64
5:S3:14:ASP:O	5:S3:17:PHE:N	3.24	0.64
36:1:1004:U:C2	36:1:1005:G:C8	2.84	0.64
36:1:824:C:C2	36:1:825:U:C5	2.86	0.64
1:2:1143:A:H2'	1:2:1144:C:H6	1.61	0.64
1:2:851:G:OP1	15:C3:121:ARG:NH1	2.30	0.64
85:5:1262:G:H5''	85:5:1263:A:OP2	1.97	0.64
85:5:1822:C:H2'	85:5:1823:A:H8	1.63	0.64
15:C3:86:GLU:HG2	15:C3:90:TYR:HE1	5.50	0.64
18:C6:128:LYS:NZ	18:C6:134:ALA:O	2.58	0.64
30:D8:36:THR:OG1	30:D8:37:SER:N	2.30	0.64
41:L4:226:GLU:OE1	41:L4:237:GLN:NE2	2.30	0.64
44:L7:116:PHE:HB2	44:L7:199:ASN:OD1	2.47	0.64
46:L9:18:VAL:HB	46:L9:27:VAL:HG22	1.78	0.64
47:M0:206:LEU:O	47:M0:210:ILE:HG12	3.66	0.64
48:M1:133:ARG:HH12	48:M1:154:THR:HA	1.61	0.64
55:M9:86:GLU:OE2	55:M9:91:SER:N	2.22	0.64
59:N3:93:LEU:H	59:N3:93:LEU:HD23	1.63	0.64
65:N9:20:GLY:O	65:N9:21:ILE:HB	2.45	0.64
71:O5:44:ILE:O	71:O5:48:ARG:HG2	1.97	0.64
5:S3:140:GLY:HA3	5:S3:182:LEU:HD23	3.75	0.64
97:1:3403:SPS:H81	98:P:101:8AN:C8	2.24	0.64
36:1:383:G:N2	36:1:386:A:OP2	2.29	0.64
1:2:1411:G:H5'	1:2:1411:G:H8	1.63	0.64
1:2:584:C:H1'	32:E0:18:THR:HG21	1.80	0.64
85:5:1807:G:C6	85:5:1808:G:N1	2.66	0.64
85:5:1851:G:H8	85:5:1851:G:O5'	1.81	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:189:G:C2	85:5:191:U:C4	2.86	0.64
85:5:1948:G:C2	85:5:1949:G:C8	2.86	0.64
85:5:497:C:H42	85:5:616:G:H1	1.44	0.64
85:5:541:U:H2'	85:5:542:G:C8	2.32	0.64
85:5:622:A:H2'	85:5:623:U:O4'	1.97	0.64
80:6:1054:U:H2'	80:6:1055:U:H6	1.63	0.64
80:6:386:G:H2'	80:6:387:A:C8	2.32	0.64
80:6:463:U:H2'	80:6:464:A:C8	2.33	0.64
14:C2:38:HIS:O	14:C2:125:ASN:ND2	2.30	0.64
17:C5:63:ALA:HB1	17:C5:74:ALA:HB3	2.30	0.64
17:C5:44:ARG:NH2	17:C5:82:ASN:O	4.26	0.64
1:2:1503:U:H5''	21:C9:75:LYS:HZ1	1.62	0.64
25:D3:89:ASN:HB2	25:D3:92:CYS:HG	2.99	0.64
40:L3:10:ARG:NH1	40:L3:12:GLY:O	3.92	0.64
2:S0:199:PRO:O	2:S0:201:LEU:N	3.57	0.64
9:S7:143:LEU:HB2	9:S7:147:ASN:HB2	1.80	0.64
9:S7:28:GLU:HG2	9:S7:35:LYS:HG3	1.78	0.64
36:1:1720:U:OP2	55:M9:120:TYR:OH	2.14	0.64
36:1:2512:C:N4	36:1:2593:A:OP2	2.28	0.64
36:1:2954:U:O4	97:1:3403:SPS:S15	2.56	0.64
36:1:3109:G:C2	36:1:3126:C:C2	2.86	0.64
1:2:1254:G:H2'	1:2:1255:U:C6	2.32	0.64
1:2:841:G:OP1	9:S7:116:ARG:NH2	2.30	0.64
85:5:182:U:H2'	85:5:183:G:C8	2.32	0.64
39:L2:174:ARG:NH2	85:5:2179:C:O3'	212.77	0.64
85:5:249:U:H2'	85:5:249:U:OP2	1.97	0.64
85:5:255:A:H2'	85:5:256:G:C8	2.32	0.64
92:5:3534:OHX:N1	92:5:3580:OHX:N2	2.45	0.64
22:D0:57:ARG:NH1	80:6:1383:G:H1'	452.10	0.64
92:6:2005:OHX:N5	92:6:2048:OHX:N3	2.46	0.64
80:6:560:U:H2'	80:6:561:G:C8	2.33	0.64
80:6:800:U:H2'	80:6:801:G:H8	1.62	0.64
13:C1:129:ARG:O	13:C1:131:ILE:N	2.97	0.64
25:D3:89:ASN:HB2	25:D3:92:CYS:SG	2.83	0.64
30:D8:16:LEU:HB2	30:D8:27:GLN:HB2	2.64	0.64
41:L4:181:VAL:HG12	41:L4:182:LEU:N	2.12	0.64
42:L5:97:ALA:O	42:L5:101:THR:OG1	2.11	0.64
51:M5:49:ARG:NH1	85:5:149:U:OP2	101.04	0.64
65:N9:7:HIS:CG	65:N9:8:THR:N	2.65	0.64
77:Q1:2:ARG:NH1	80:6:1773:C:OP2	308.82	0.64
3:S1:229:MET:SD	3:S1:232:HIS:ND1	2.67	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S2:87:GLN:HG2	4:S2:96:THR:HB	1.79	0.64
1:2:1647:C:H42	1:2:1720:G:H1	1.46	0.64
1:2:395:U:H2'	1:2:396:G:O4'	1.98	0.64
1:2:638:U:H1'	9:S7:112:ARG:HH12	1.63	0.64
38:4:121:U:H2'	38:4:122:U:C6	2.32	0.64
85:5:1345:G:C2	85:5:1360:C:N3	2.66	0.64
85:5:2697:A:H2'	85:5:2698:G:C8	2.32	0.64
85:5:2993:G:H2'	85:5:3142:A:H61	1.62	0.64
80:6:531:C:OP2	92:6:1956:OHX:N5	2.30	0.64
80:6:878:G:OP1	80:6:943:C:O2'	2.16	0.64
1:2:1412:G:H1'	22:D0:74:GLU:HG2	1.79	0.64
42:L5:219:PHE:CE1	42:L5:227:LEU:HD11	2.32	0.64
47:M0:201:SER:OG	47:M0:203:LYS:O	2.15	0.64
36:1:1485:G:N2	70:O4:4:ARG:HD2	2.12	0.64
10:S8:142:LYS:NZ	80:6:187:G:OP2	271.63	0.64
36:1:1193:A:OP2	52:M6:49:ARG:NH1	2.26	0.64
36:1:1852:G:N7	92:1:3513:OHX:N3	2.45	0.64
38:4:14:C:H5"	53:M7:123:PRO:HG3	1.78	0.64
85:5:392:G:C2	85:5:393:U:C6	2.86	0.64
80:6:461:G:H2'	80:6:462:G:C8	2.32	0.64
15:C3:112:LYS:O	15:C3:116:ILE:HD12	4.23	0.64
42:L5:236:LEU:HA	42:L5:239:ILE:HD12	1.77	0.64
42:L5:61:ILE:HD13	42:L5:79:TYR:CE1	4.31	0.64
44:L7:219:LYS:HB3	44:L7:228:SER:HB2	1.80	0.64
46:L9:171:ASP:OD1	46:L9:173:ARG:HB2	2.15	0.64
63:N7:23:VAL:HG12	63:N7:45:GLY:HA3	1.94	0.64
36:1:1430:U:O4	64:N8:3:SER:OG	2.15	0.64
65:N9:38:LYS:HB3	65:N9:41:ARG:HH12	4.16	0.64
72:O6:2:THR:OG1	72:O6:3:VAL:N	2.31	0.64
3:S1:64:ARG:H	3:S1:88:VAL:HB	1.63	0.64
5:S3:211:PRO:HG3	19:C7:20:TYR:CZ	2.31	0.64
8:S6:163:THR:HA	8:S6:168:THR:HA	1.79	0.64
36:1:408:A:P	92:1:3589:OHX:N3	2.70	0.64
1:2:226:A:H61	1:2:818:U:H3	1.46	0.64
85:5:1729:A:H4'	85:5:1730:G:OP2	1.96	0.64
80:6:73:U:H2'	80:6:74:U:C6	2.33	0.64
80:6:754:A:N6	80:6:793:A:N7	2.42	0.64
14:C2:124:LYS:O	14:C2:126:TRP:N	2.31	0.64
16:C4:114:ARG:HD2	28:D6:59:TYR:OH	3.87	0.64
30:D8:52:ASP:N	30:D8:52:ASP:OD1	2.28	0.64
41:L4:3:ARG:HH11	41:L4:22:LEU:HD12	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:L5:261:THR:HG23	42:L5:264:GLN:HE21	1.63	0.64
47:M0:14:ASN:O	47:M0:128:ARG:NH2	2.31	0.64
50:M4:24:LYS:NZ	50:M4:61:GLY:O	2.31	0.64
53:M7:5:GLY:N	53:M7:147:GLU:OE2	2.29	0.64
36:1:3067:C:H5''	55:M9:58:HIS:CD2	2.32	0.64
3:S1:91:VAL:HG23	3:S1:96:LEU:HB3	1.79	0.64
6:S4:45:ILE:HG13	6:S4:61:VAL:HG21	2.73	0.64
9:S7:123:ASP:OD1	9:S7:138:LYS:NZ	2.30	0.64
10:S8:84:HIS:HE1	10:S8:86:SER:HB2	1.63	0.64
34:SR:238:ASP:OD2	34:SR:258:THR:OG1	3.31	0.64
36:1:1487:G:H1	36:1:1855:U:H3	1.45	0.64
36:1:2101:C:O2'	36:1:2102:U:O5'	2.16	0.64
36:1:3029:A:OP2	92:1:3606:OHX:N3	2.30	0.64
49:M3:73:ARG:NH1	85:5:110:G:OP2	75.40	0.64
85:5:2562:A:N6	85:5:2579:G:O2'	2.30	0.64
85:5:3384:U:H2'	85:5:3385:U:H6	1.63	0.64
80:6:320:U:H2'	80:6:321:C:H2'	1.80	0.64
80:6:74:U:C2	80:6:76:A:H5''	2.33	0.64
48:M1:72:ARG:NE	37:7:40:C:O2	306.57	0.64
44:L7:218:ARG:HH21	37:7:86:U:H3'	260.29	0.64
14:C2:57:ALA:HB3	14:C2:85:LYS:HE2	1.80	0.64
20:C8:52:VAL:HG21	20:C8:69:ILE:HD11	3.73	0.64
21:C9:39:THR:HG1	21:C9:43:ASN:HD22	1.45	0.64
41:L4:286:VAL:HG11	54:M8:31:LYS:HD2	5.40	0.64
55:M9:167:ARG:HB3	55:M9:167:ARG:NH1	4.55	0.64
56:N0:77:VAL:HG11	56:N0:106:LEU:HD13	1.79	0.64
58:N2:99:LYS:HE3	58:N2:102:GLU:OE1	1.97	0.64
59:N3:5:GLY:HA3	59:N3:106:LYS:O	1.98	0.64
3:S1:129:THR:HB	3:S1:180:THR:HA	1.80	0.64
9:S7:165:LYS:O	9:S7:168:SER:OG	2.12	0.64
11:S9:153:GLU:HA	11:S9:156:ILE:HD11	2.35	0.64
36:1:1564:U:H2'	36:1:1565:G:C8	2.33	0.63
36:1:2572:C:O2'	36:1:2573:G:O4'	2.15	0.63
36:1:3174:A:OP1	69:O3:97:SER:OG	2.15	0.63
1:2:1050:C:OP1	3:S1:150:VAL:HG13	1.99	0.63
80:6:564:G:N2	80:6:577:G:OP1	2.31	0.63
80:6:845:G:H2'	80:6:846:G:C8	2.32	0.63
80:6:868:G:C2	80:6:869:A:C8	2.86	0.63
15:C3:56:ASP:OD2	29:D7:52:THR:OG1	3.53	0.63
41:L4:207:VAL:HB	41:L4:227:THR:HG22	5.91	0.63
41:L4:330:TYR:CE2	44:L7:49:ALA:HA	3.00	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:M3:48:PRO:HA	49:M3:137:GLN:HB3	1.79	0.63
49:M3:90:ALA:HB1	49:M3:95:ILE:HD12	2.71	0.63
55:M9:171:ASP:N	55:M9:171:ASP:OD1	2.69	0.63
62:N6:120:GLN:NE2	62:N6:126:LEU:HA	8.82	0.63
64:N8:6:THR:HG23	64:N8:8:THR:HG23	1.80	0.63
5:S3:162:GLN:OE1	5:S3:165:ASN:ND2	2.30	0.63
85:5:2165:G:N2	85:5:2170:U:C4	2.66	0.63
85:5:79:U:OP2	92:5:3464:OHX:N4	2.31	0.63
85:5:91:G:OP2	85:5:93:C:N4	2.31	0.63
48:M1:137:ARG:NH1	37:7:28:C:OP1	301.27	0.63
5:S3:23:GLU:CD	12:C0:61:TRP:HE1	2.01	0.63
16:C4:12:GLN:HB3	16:C4:78:ALA:HB2	2.60	0.63
17:C5:30:THR:HG23	17:C5:86:VAL:HG21	1.80	0.63
21:C9:33:TYR:HD1	21:C9:34:VAL:H	4.30	0.63
1:2:1481:G:OP1	21:C9:75:LYS:HD3	1.97	0.63
25:D3:43:PHE:CE1	25:D3:49:ALA:HB3	2.33	0.63
39:L2:204:MET:HG2	39:L2:208:ASP:HB2	4.21	0.63
41:L4:138:ARG:NH1	41:L4:138:ARG:O	2.31	0.63
71:O5:62:GLN:O	71:O5:66:VAL:HG23	2.18	0.63
78:Q2:77:CYS:O	78:Q2:79:THR:N	2.54	0.63
3:S1:149:GLN:HB2	80:6:1066:C:H4'	344.06	0.63
34:SR:13:LEU:HB2	34:SR:310:ILE:HB	1.79	0.63
36:1:1441:G:OP1	92:4:215:OHX:N2	2.31	0.63
36:1:2402:A:O3'	92:1:3702:OHX:N5	2.32	0.63
36:1:2842:U:OP1	36:1:2844:C:N4	2.30	0.63
36:1:330:G:N7	92:1:3576:OHX:N6	2.46	0.63
1:2:396:G:N2	1:2:399:A:OP2	2.32	0.63
1:2:461:G:OP1	11:S9:2:PRO:HG2	1.98	0.63
85:5:1346:G:H1	85:5:1358:C:N4	1.97	0.63
85:5:1818:U:H2'	85:5:1819:U:O4'	1.99	0.63
80:6:616:G:N2	80:6:622:A:C8	2.67	0.63
80:6:955:A:H2'	80:6:956:C:O4'	1.99	0.63
38:8:68:G:C6	38:8:69:U:C4	2.85	0.63
23:D1:17:CYS:SG	23:D1:18:SER:N	3.08	0.63
41:L4:180:LYS:HA	85:5:1386:A:N3	118.11	0.63
46:L9:138:THR:O	46:L9:139:ASN:ND2	2.30	0.63
50:M4:128:ARG:HH11	50:M4:128:ARG:HB3	2.40	0.63
53:M7:25:SER:O	53:M7:29:THR:HG23	1.97	0.63
55:M9:62:ARG:O	55:M9:65:ALA:N	2.88	0.63
56:N0:77:VAL:HG11	56:N0:106:LEU:HG	4.57	0.63
57:N1:13:TYR:O	92:5:3415:OHX:N4	260.78	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
60:N4:9:SER:OG	60:N4:10:GLY:N	2.41	0.63
64:N8:75:LEU:O	64:N8:77:LYS:N	2.95	0.63
65:N9:37:PRO:HB2	85:5:2738:A:H4'	207.51	0.63
2:S0:114:SER:HB2	2:S0:116:LYS:HZ1	4.63	0.63
5:S3:22:ASN:O	5:S3:26:THR:OG1	2.61	0.63
7:S5:209:TYR:OH	7:S5:213:LYS:NZ	5.41	0.63
11:S9:27:GLU:OE1	11:S9:39:LYS:NZ	3.11	0.63
34:SR:66:HIS:HB3	34:SR:85:TRP:HB2	1.81	0.63
36:1:1421:G:C2	36:1:1422:G:C8	2.86	0.63
1:2:1141:C:H42	1:2:1146:A:H61	1.44	0.63
1:2:319:U:H1'	1:2:323:A:C4	2.34	0.63
1:2:577:G:C2	35:SM:99:LYS:HG2	2.33	0.63
85:5:3358:U:H2'	85:5:3359:A:C8	2.33	0.63
80:6:627:C:H2'	80:6:628:G:O4'	1.99	0.63
1:2:1370:G:OP1	19:C7:32:LYS:NZ	2.30	0.63
26:D4:110:GLN:HB3	26:D4:114:ARG:HH12	2.06	0.63
40:L3:361:THR:H	40:L3:371:GLN:NE2	2.94	0.63
50:M4:121:MET:O	50:M4:125:LYS:HG2	1.98	0.63
36:1:1447:G:H3'	53:M7:67:ILE:HD11	1.81	0.63
50:M4:65:LEU:HD12	56:N0:172:TYR:CE2	2.33	0.63
57:N1:65:TYR:HB3	57:N1:75:ILE:HG13	5.39	0.63
58:N2:51:GLY:O	58:N2:53:ALA:N	2.32	0.63
62:N6:55:GLU:HB2	62:N6:108:LYS:HB2	2.76	0.63
66:O0:66:LYS:H	66:O0:66:LYS:HD2	4.61	0.63
69:O3:13:HIS:CD2	69:O3:28:SER:HG	2.51	0.63
2:S0:121:VAL:HB	2:S0:143:VAL:HG22	1.80	0.63
9:S7:126:LEU:HD13	9:S7:173:TYR:CD2	2.99	0.63
36:1:1146:C:H4'	36:1:1331:U:C5	2.34	0.63
36:1:132:C:H2'	36:1:133:U:H5''	1.80	0.63
36:1:198:A:C6	36:1:219:A:C6	2.86	0.63
36:1:603:A:H2'	36:1:604:G:O4'	1.99	0.63
85:5:1103:A:H3'	85:5:1104:G:H5'	1.81	0.63
85:5:1345:G:N2	85:5:1360:C:N3	2.47	0.63
85:5:2618:G:O2'	85:5:2619:G:OP2	2.17	0.63
85:5:2871:G:H5''	85:5:2872:A:H5'	1.79	0.63
85:5:1819:U:O4	92:5:3550:OHX:N5	2.31	0.63
85:5:2669:G:O6	92:5:3570:OHX:N5	2.32	0.63
85:5:900:G:H2'	85:5:901:G:C8	2.33	0.63
18:C6:10:PHE:CE2	80:6:1379:C:H5'	430.93	0.63
80:6:1799:U:H4'	80:6:1800:A:H2'	1.80	0.63
6:S4:187:ARG:NH2	80:6:753:A:N7	373.61	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:L5:21:ARG:NH2	37:7:8:G:O6	287.35	0.63
25:D3:86:PHE:HB2	25:D3:120:VAL:HG11	2.57	0.63
41:L4:345:GLU:O	41:L4:346:LYS:HB2	4.72	0.63
45:L8:207:ASP:O	45:L8:209:ALA:N	3.25	0.63
48:M1:29:ARG:HG3	48:M1:32:ARG:HH12	3.61	0.63
53:M7:61:ARG:O	53:M7:64:ASN:ND2	2.31	0.63
56:N0:148:LEU:HD22	56:N0:149:LYS:H	5.10	0.63
64:N8:47:LYS:O	64:N8:48:TYR:HB2	1.98	0.63
61:N5:66:PRO:HD2	71:O5:36:LEU:HD21	2.60	0.63
71:O5:45:LYS:O	71:O5:49:LYS:HG2	4.26	0.63
72:O6:25:LYS:O	72:O6:28:TYR:HB2	1.98	0.63
4:S2:38:VAL:O	4:S2:39:THR:OG1	2.13	0.63
36:1:2679:A:O2'	48:M1:52:TYR:OH	2.16	0.63
36:1:3030:G:C6	36:1:3031:G:C4	2.87	0.63
92:1:3507:OHX:N5	92:1:3691:OHX:N5	2.46	0.63
1:2:298:C:H5"	6:S4:38:LEU:HD23	1.80	0.63
85:5:138:U:H2'	85:5:139:G:H8	1.64	0.63
85:5:1481:A:O2'	85:5:1482:A:O5'	2.17	0.63
85:5:1651:U:H2'	85:5:1652:G:C8	2.33	0.63
85:5:3326:G:H2'	85:5:3327:G:H8	1.63	0.63
92:5:3503:OHX:N3	92:7:209:OHX:N4	2.46	0.63
80:6:1691:A:H2'	80:6:1692:G:H8	1.63	0.63
16:C4:89:THR:O	16:C4:128:LYS:NZ	3.51	0.63
21:C9:108:LEU:HA	21:C9:111:ILE:HG22	1.80	0.63
24:D2:26:LEU:HD21	24:D2:60:LYS:HD3	1.81	0.63
40:L3:320:ASP:N	40:L3:320:ASP:OD2	2.29	0.63
42:L5:33:ARG:HD2	37:7:7:G:OP1	270.87	0.63
37:3:97:A:O4'	44:L7:225:GLN:OE1	2.16	0.63
52:M6:133:ARG:NH1	85:5:1189:C:C4	293.70	0.63
56:N0:62:ASN:OD1	56:N0:62:ASN:N	2.58	0.63
58:N2:14:THR:HG23	58:N2:66:VAL:HG22	2.42	0.63
59:N3:33:ASN:HD22	59:N3:33:ASN:C	2.01	0.63
5:S3:64:ARG:HA	5:S3:67:ASN:HB2	2.82	0.63
1:2:738:A:H2	6:S4:13:ALA:HA	1.62	0.63
8:S6:70:PRO:O	8:S6:98:ARG:NH1	3.68	0.63
36:1:1595:U:C2	36:1:1596:C:C5	2.86	0.63
36:1:2763:U:H5'	54:M8:176:ARG:HG3	1.80	0.63
36:1:2786:G:O6	92:1:3575:OHX:N3	2.31	0.63
1:2:588:U:O2	32:E0:57:ASN:ND2	2.29	0.63
85:5:1554:U:C2	85:5:1555:U:C5	2.87	0.63
39:L2:72:ARG:NH2	85:5:2522:G:O6	182.82	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:2841:G:H2'	85:5:2844:C:H42	1.64	0.63
77:Q1:21:ARG:NH1	80:6:1654:G:OP1	280.69	0.63
80:6:1735:U:O4	92:6:1976:OHX:N1	2.32	0.63
38:8:125:U:O2'	38:8:126:A:H5'	1.99	0.63
25:D3:30:LYS:HE3	25:D3:34:LEU:HD11	1.80	0.63
36:1:2146:C:OP1	39:L2:200:ARG:NH1	2.32	0.63
42:L5:204:VAL:O	42:L5:208:MET:HG3	2.24	0.63
47:M0:210:ILE:HG23	47:M0:217:PHE:CE2	2.33	0.63
63:N7:53:VAL:HA	63:N7:57:HIS:CD2	2.43	0.63
64:N8:73:LEU:O	64:N8:112:ILE:HA	2.33	0.63
70:O4:99:LYS:O	70:O4:103:LYS:HG2	2.13	0.63
2:S0:82:GLY:O	2:S0:86:VAL:HG22	1.98	0.63
36:1:1107:C:H2'	36:1:1108:U:H6	1.64	0.63
36:1:1675:G:H2'	36:1:1676:A:C8	2.34	0.63
36:1:1715:A:H4'	36:1:1716:U:OP1	1.99	0.63
36:1:249:U:O2	36:1:250:U:N3	2.31	0.63
36:1:2921:U:H2'	36:1:2923:U:OP2	1.98	0.63
1:2:1023:G:N2	1:2:1061:C:O2	2.31	0.63
85:5:109:A:O2'	85:5:323:A:N6	2.32	0.63
85:5:595:G:N1	85:5:609:G:H5''	2.13	0.63
85:5:848:A:C5	85:5:849:C:H1'	2.33	0.63
16:C4:132:ARG:NH1	80:6:1788:G:O5'	295.21	0.63
80:6:333:A:N1	80:6:334:G:N1	2.46	0.63
22:D0:27:THR:HG23	22:D0:113:ASP:HB3	1.80	0.63
2:S0:62:ARG:HH21	23:D1:39:VAL:HG22	1.92	0.63
26:D4:62:THR:HA	26:D4:69:SER:HA	2.21	0.63
39:L2:44:ILE:HD12	39:L2:62:VAL:HB	1.81	0.63
42:L5:289:LYS:HD3	47:M0:206:LEU:HD23	1.81	0.63
44:L7:206:LYS:HB3	85:5:1334:U:H5''	236.28	0.63
46:L9:28:VAL:HG13	46:L9:33:THR:HB	1.80	0.63
53:M7:101:ASN:OD1	85:5:388:G:N2	113.60	0.63
2:S0:84:ARG:HB3	2:S0:203:PHE:O	1.99	0.63
6:S4:247:SER:OG	6:S4:249:ALA:HB3	2.58	0.63
9:S7:62:VAL:HB	9:S7:94:ALA:HA	1.79	0.63
36:1:342:A:C6	36:1:349:A:C8	2.87	0.63
36:1:377:A:H1'	36:1:392:G:N2	2.13	0.63
1:2:1666:C:O2'	1:2:1667:U:O5'	2.17	0.63
56:N0:117:ARG:NH2	85:5:1322:U:OP1	281.30	0.63
85:5:2404:A:C6	95:5:3401:PHE:HZ	2.17	0.63
80:6:10:G:N2	80:6:11:A:H1'	2.14	0.63
80:6:1514:U:H5''	80:6:1515:A:N3	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:363:G:OP1	92:6:1965:OHX:N1	2.32	0.63
80:6:89:G:C6	80:6:90:C:C4	2.87	0.63
14:C2:97:LEU:HD11	14:C2:121:VAL:HG22	2.00	0.63
20:C8:36:LYS:HB3	20:C8:105:VAL:HG21	4.54	0.63
20:C8:99:HIS:HD2	20:C8:101:LEU:HD21	1.63	0.63
25:D3:70:LYS:HD2	25:D3:93:LEU:HD22	2.51	0.63
36:1:3003:G:OP2	40:L3:26:ARG:NH2	2.32	0.63
41:L4:304:GLN:O	41:L4:306:THR:N	2.57	0.63
69:O3:31:LYS:NZ	69:O3:35:VAL:O	2.31	0.63
78:Q2:48:SER:O	92:Q2:502:OHX:N3	4.78	0.63
7:S5:110:ALA:HA	7:S5:113:ILE:HD12	1.81	0.63
9:S7:31:SER:HA	9:S7:35:LYS:HE3	2.72	0.63
11:S9:118:LEU:HD23	11:S9:158:PHE:CE1	2.68	0.63
36:1:1329:U:HO2'	36:1:1330:A:P	2.22	0.62
36:1:1689:U:H2'	36:1:1690:C:H6	1.64	0.62
36:1:1720:U:OP2	55:M9:110:ARG:NH1	2.31	0.62
36:1:2266:U:H2'	36:1:2267:C:C6	2.34	0.62
36:1:437:G:H2'	36:1:438:A:O4'	1.99	0.62
36:1:929:A:C5	36:1:930:U:C4	2.86	0.62
1:2:1544:U:H2'	1:2:1545:G:H8	1.64	0.62
1:2:263:C:H4'	1:2:292:U:H5'	1.79	0.62
1:2:397:A:O3'	10:S8:50:GLY:HA2	1.99	0.62
1:2:74:U:H1'	1:2:75:U:H5''	1.81	0.62
85:5:1228:C:H2'	85:5:1229:G:H8	1.63	0.62
85:5:2666:C:OP2	85:5:2687:G:N1	2.32	0.62
85:5:2956:A:H62	85:5:2977:G:H21	1.47	0.62
52:M6:109:PRO:HB3	85:5:3243:A:C2	260.33	0.62
85:5:327:A:H2'	85:5:328:U:H6	1.64	0.62
80:6:1055:U:O4	92:6:2058:OHX:N3	2.31	0.62
80:6:1230:A:H8	80:6:1258:U:C4	2.17	0.62
80:6:1595:U:H3	80:6:1600:A:H2	1.47	0.62
80:6:1783:C:H2'	80:6:1784:C:C6	2.34	0.62
15:C3:54:LEU:HB3	15:C3:60:VAL:HB	1.81	0.62
42:L5:251:PRO:O	42:L5:253:PHE:N	2.32	0.62
43:L6:172:HIS:ND1	69:O3:44:TYR:OH	2.31	0.62
51:M5:153:ASP:HB3	51:M5:155:VAL:HG23	1.79	0.62
53:M7:65:SER:O	53:M7:66:SER:HB2	2.20	0.62
66:O0:33:SER:OG	66:O0:39:SER:HB2	1.98	0.62
73:O7:43:LYS:NZ	85:5:55:G:OP1	114.42	0.62
1:2:577:G:C4	35:SM:99:LYS:HE2	2.35	0.62
36:1:1780:G:OP1	92:1:3586:OHX:N2	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2234:G:O6	92:1:3577:OHX:N1	2.32	0.62
36:1:2674:A:C6	48:M1:124:GLY:HA3	2.33	0.62
36:1:2706:G:C6	36:1:2707:C:N4	2.68	0.62
1:2:442:C:O2'	1:2:525:A:N1	2.33	0.62
1:2:45:U:O2'	1:2:46:A:H2'	1.99	0.62
92:4:206:OHX:N6	73:O7:60:GLY:O	2.32	0.62
85:5:283:G:OP2	85:5:285:A:O2'	2.16	0.62
85:5:1161:G:OP1	92:5:3530:OHX:N4	2.31	0.62
85:5:426:G:C6	85:5:427:C:N4	2.66	0.62
80:6:194:U:H2'	80:6:195:G:H4'	1.81	0.62
37:7:52:G:C2	37:7:53:U:C5	2.86	0.62
1:2:902:A:H5'	16:C4:18:ARG:NH1	2.13	0.62
16:C4:18:ARG:HG3	16:C4:82:LYS:HB2	3.38	0.62
20:C8:146:ALA:H	35:SM:68:ARG:NH2	1.96	0.62
29:D7:19:HIS:HB3	29:D7:22:LYS:HB2	2.68	0.62
29:D7:46:VAL:HG12	29:D7:47:PHE:H	2.99	0.62
40:L3:125:SER:OG	40:L3:126:LYS:N	3.90	0.62
41:L4:50:TYR:CD2	41:L4:109:TRP:HH2	2.65	0.62
44:L7:104:GLN:O	44:L7:107:ARG:N	2.39	0.62
44:L7:89:ILE:HG22	44:L7:220:PHE:HE1	1.64	0.62
45:L8:95:ASN:O	45:L8:98:ARG:HG3	1.99	0.62
46:L9:150:SER:OG	46:L9:153:ASP:N	2.19	0.62
56:N0:47:LYS:O	56:N0:48:LEU:HD23	1.98	0.62
63:N7:54:THR:O	63:N7:57:HIS:HB2	1.99	0.62
64:N8:2:PRO:HD2	85:5:792:G:H5"	139.24	0.62
71:O5:89:ARG:HG2	71:O5:89:ARG:HH11	2.22	0.62
2:S0:41:ARG:HD2	2:S0:42:PRO:O	1.98	0.62
3:S1:111:ARG:HB3	28:D6:68:TYR:CD2	2.32	0.62
11:S9:110:GLN:NE2	11:S9:126:ARG:HG2	2.13	0.62
36:1:184:U:H3	36:1:232:G:H1	1.46	0.62
36:1:2533:G:H3'	36:1:2534:G:C8	2.34	0.62
36:1:2777:G:H4'	36:1:2778:G:H5"	1.80	0.62
1:2:1487:G:H2'	1:2:1488:A:C8	2.34	0.62
1:2:487:G:H1	1:2:500:C:H42	1.45	0.62
38:4:79:A:H2'	38:4:80:A:C1'	2.29	0.62
85:5:2859:U:O2'	92:5:3406:OHX:N5	2.32	0.62
85:5:856:G:C6	85:5:857:G:C2	2.87	0.62
85:5:970:A:H8	85:5:970:A:O5'	1.81	0.62
80:6:1213:G:O6	92:6:1927:OHX:N6	2.32	0.62
80:6:415:C:O2'	80:6:416:A:H5"	1.99	0.62
37:7:104:A:H5"	37:7:105:C:OP2	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:8:65:A:C6	38:8:66:A:C5	2.86	0.62
7:S5:37:GLN:HB3	18:C6:53:LEU:HB3	1.80	0.62
20:C8:87:ASN:OD1	20:C8:88:ARG:N	2.32	0.62
22:D0:35:GLU:OE2	80:6:1383:G:O2'	451.27	0.62
40:L3:296:THR:HG21	40:L3:356:LEU:HB2	1.81	0.62
41:L4:329:PRO:O	41:L4:331:ALA:N	3.29	0.62
42:L5:236:LEU:O	42:L5:239:ILE:N	3.21	0.62
43:L6:149:ILE:HG23	43:L6:155:LEU:HB3	1.80	0.62
51:M5:35:VAL:HG23	85:5:1543:G:OP1	140.76	0.62
78:Q2:3:ASN:HA	78:Q2:92:GLU:O	1.98	0.62
6:S4:200:ARG:HD3	6:S4:202:ASP:OD1	2.00	0.62
7:S5:56:ALA:O	7:S5:58:LEU:N	3.73	0.62
36:1:1465:A:N6	36:1:1466:G:C2	2.67	0.62
36:1:1680:G:H2'	36:1:1681:U:H6	1.64	0.62
1:2:1416:G:H2'	1:2:1417:U:H6	1.63	0.62
68:O2:44:ARG:NH1	85:5:1145:G:OP1	206.65	0.62
85:5:1280:C:H2'	85:5:1281:G:O4'	1.98	0.62
85:5:873:C:H5''	85:5:874:U:O5'	2.00	0.62
1:2:1462:A:OP1	21:C9:57:ARG:NH1	2.33	0.62
41:L4:10:SER:OG	41:L4:14:GLU:HB3	5.09	0.62
37:3:64:A:H5''	47:M0:206:LEU:H	1.63	0.62
49:M3:153:ASP:HB2	64:N8:126:LYS:NZ	3.64	0.62
53:M7:111:LYS:O	53:M7:153:LYS:N	2.69	0.62
53:M7:56:ARG:NH1	53:M7:75:GLU:OE2	2.29	0.62
64:N8:42:ARG:HG3	64:N8:42:ARG:O	1.97	0.62
78:Q2:17:CYS:SG	78:Q2:77:CYS:HB3	2.39	0.62
9:S7:28:GLU:HG2	9:S7:35:LYS:HA	3.43	0.62
11:S9:9:SER:HB2	92:S9:201:OHX:N1	2.15	0.62
36:1:331:G:N7	92:1:3576:OHX:N5	2.47	0.62
1:2:1516:C:H4'	1:2:1522:G:N1	2.14	0.62
85:5:1688:U:H2'	85:5:1689:U:C6	2.34	0.62
85:5:2357:A:H2'	85:5:2358:A:H8	1.64	0.62
85:5:2744:U:OP1	92:5:3592:OHX:N2	2.31	0.62
85:5:563:U:H2'	85:5:564:G:C8	2.35	0.62
38:8:102:U:H2'	38:8:103:G:C8	2.34	0.62
15:C3:20:ARG:O	15:C3:65:VAL:HG22	2.65	0.62
24:D2:82:LYS:O	24:D2:84:GLY:N	2.29	0.62
29:D7:7:LEU:O	29:D7:10:PRO:HD3	4.12	0.62
42:L5:110:LEU:HD12	42:L5:115:LEU:HB2	1.81	0.62
45:L8:254:ASP:O	45:L8:256:ALA:N	2.32	0.62
48:M1:10:ARG:NH2	48:M1:151:SER:O	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:M6:36:VAL:HB	52:M6:108:ILE:HG22	4.92	0.62
71:O5:21:LEU:CD2	71:O5:25:LYS:HE3	2.28	0.62
75:O9:3:ALA:O	75:O9:5:LYS:N	4.78	0.62
79:Q3:81:SER:HA	79:Q3:84:ARG:HB2	1.81	0.62
2:S0:169:SER:O	2:S0:173:ILE:HG12	1.98	0.62
2:S0:9:LEU:HD21	2:S0:14:ALA:HB2	4.16	0.62
3:S1:48:VAL:HG21	3:S1:61:LEU:HD22	5.72	0.62
6:S4:21:ASP:OD2	6:S4:24:SER:OG	2.17	0.62
1:2:208:U:O2'	10:S8:180:ASP:OD2	2.11	0.62
36:1:2419:A:C6	36:1:2420:C:N4	2.68	0.62
85:5:1690:C:C4	85:5:1691:U:C4	2.88	0.62
85:5:2201:G:H2'	85:5:2202:C:H6	1.64	0.62
85:5:2631:U:N3	85:5:2632:G:N7	2.47	0.62
76:Q0:125:LYS:NZ	85:5:2898:G:N7	327.71	0.62
85:5:3112:G:N7	92:5:3422:OHX:N6	2.47	0.62
85:5:3299:A:H61	85:5:3315:G:H1	1.45	0.62
80:6:643:G:H1	80:6:691:C:H42	1.48	0.62
13:C1:109:VAL:HG12	13:C1:137:PHE:HB2	4.27	0.62
19:C7:50:ILE:O	19:C7:54:THR:OG1	2.17	0.62
48:M1:54:VAL:O	48:M1:56:THR:N	2.32	0.62
49:M3:140:SER:O	49:M3:140:SER:OG	2.14	0.62
51:M5:190:THR:O	51:M5:194:GLN:HG2	2.21	0.62
66:O0:27:TYR:O	66:O0:31:VAL:HG23	1.99	0.62
66:O0:61:MET:SD	66:O0:61:MET:C	3.44	0.62
69:O3:56:SER:OG	85:5:3170:A:OP2	201.76	0.62
2:S0:155:PHE:O	23:D1:60:ARG:NH2	2.32	0.62
1:2:339:C:OP2	10:S8:10:LYS:NZ	2.30	0.62
34:SR:49:GLY:O	34:SR:51:ASP:N	2.33	0.62
36:1:1108:U:H2'	36:1:1109:U:C6	2.30	0.62
36:1:1438:U:H2'	36:1:1439:U:H6	1.65	0.62
36:1:2926:A:C2'	36:1:2927:C:H5'	2.29	0.62
1:2:1274:G:H22	1:2:1307:G:H22	1.48	0.62
1:2:809:U:H2'	1:2:810:C:C6	2.35	0.62
1:2:915:U:OP2	3:S1:155:TYR:OH	2.17	0.62
37:3:50:U:H2'	37:3:51:A:H5'	1.82	0.62
85:5:187:A:C2	85:5:211:A:C4	2.88	0.62
85:5:1907:C:N4	85:5:1908:A:C2	2.68	0.62
85:5:2875:U:H5'	85:5:2875:U:H6	1.65	0.62
85:5:2960:C:H2'	85:5:2961:G:C8	2.34	0.62
85:5:299:G:N7	92:5:3692:OHX:N1	2.47	0.62
80:6:1502:G:N2	80:6:1505:A:OP2	2.26	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:1526:A:N1	80:6:1608:U:O2'	2.25	0.62
80:6:816:G:N2	80:6:817:A:N3	2.48	0.62
20:C8:119:ILE:HG22	20:C8:121:ALA:H	1.65	0.62
26:D4:61:ARG:NH2	80:6:530:C:O2	408.25	0.62
45:L8:50:VAL:HB	45:L8:52:TRP:CE2	3.64	0.62
54:M8:66:ARG:HG2	54:M8:140:LEU:HD13	1.82	0.62
68:O2:23:ASP:OD1	68:O2:23:ASP:N	2.23	0.62
6:S4:160:VAL:HG13	6:S4:169:ILE:HG23	1.87	0.62
10:S8:12:SER:HB3	10:S8:18:ARG:NH1	2.71	0.62
34:SR:42:LEU:HD21	34:SR:82:SER:HB3	1.81	0.62
36:1:1481:A:O2'	36:1:1858:A:N3	2.21	0.62
1:2:1457:G:H2'	1:2:1458:A:C8	2.35	0.62
1:2:452:A:OP2	92:2:1916:OHX:N5	2.32	0.62
1:2:329:G:H2'	1:2:330:G:H8	1.63	0.62
1:2:591:A:H2'	1:2:592:A:C8	2.34	0.62
85:5:1105:A:C2	85:5:1106:G:C4	2.87	0.62
40:L3:26:ARG:HH22	85:5:3003:G:P	230.07	0.62
41:L4:54:GLU:OE2	41:L4:55:LYS:N	2.33	0.62
45:L8:244:ALA:HA	45:L8:247:ASP:HB2	2.95	0.62
45:L8:83:ASP:OD2	45:L8:86:THR:N	3.06	0.62
47:M0:76:MET:SD	47:M0:148:VAL:HG13	3.83	0.62
48:M1:133:ARG:HD3	48:M1:152:HIS:HD2	4.22	0.62
61:N5:139:ILE:HD11	71:O5:33:VAL:HG21	1.82	0.62
71:O5:78:LYS:HA	71:O5:81:ARG:HB2	3.50	0.62
73:O7:17:THR:HG23	75:O9:51:ILE:HD13	1.81	0.62
11:S9:102:GLU:HA	11:S9:105:LEU:HD13	3.89	0.62
34:SR:200:ASN:H	34:SR:215:GLY:HA2	1.64	0.62
36:1:2225:U:H2'	36:1:2226:U:C6	2.35	0.62
36:1:541:U:H2'	36:1:542:G:C8	2.34	0.62
1:2:1165:U:O4	92:2:1997:OHX:N6	2.33	0.62
44:L7:97:PRO:HG3	85:5:1139:G:OP1	230.66	0.62
85:5:1323:G:C2'	85:5:1324:U:H5'	2.30	0.62
85:5:1490:A:H61	85:5:1839:A:H61	1.46	0.62
85:5:2833:A:C2	85:5:2834:G:C8	2.88	0.62
85:5:685:G:N2	85:5:695:C:O2	2.30	0.62
80:6:594:A:H4'	80:6:595:G:H5'	1.80	0.62
20:C8:46:VAL:HG11	20:C8:73:MET:HE3	5.26	0.62
41:L4:140:HIS:H	41:L4:180:LYS:HE2	1.65	0.62
41:L4:119:ARG:HE	41:L4:271:LYS:HD3	2.69	0.62
43:L6:157:GLN:O	43:L6:160:SER:OG	2.55	0.62
43:L6:169:ASP:HB3	43:L6:174:LEU:HD11	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:L7:47:ARG:NH1	44:L7:183:ASP:OD2	2.33	0.62
47:M0:36:LEU:HD21	47:M0:69:ARG:HD3	1.81	0.62
36:1:86:G:O2'	49:M3:11:LYS:HD3	1.99	0.62
52:M6:48:PHE:O	52:M6:52:LEU:HG	2.59	0.62
56:N0:154:HIS:CE1	56:N0:170:THR:HG21	2.34	0.62
57:N1:130:ARG:HD3	85:5:1098:A:OP2	253.98	0.62
44:L7:73:GLY:O	57:N1:143:THR:HG22	1.99	0.62
69:O3:58:GLU:HB2	69:O3:63:LYS:NZ	2.14	0.62
72:O6:33:ALA:O	72:O6:34:SER:HB3	2.09	0.62
2:S0:124:THR:HG22	2:S0:174:TRP:HE1	1.94	0.62
5:S3:115:ILE:HD12	5:S3:116:ARG:H	4.69	0.62
9:S7:154:LEU:HD11	9:S7:183:PHE:CD1	2.52	0.62
10:S8:76:THR:HG22	10:S8:108:PRO:HG2	1.80	0.62
36:1:1220:U:H4'	36:1:1221:A:H5''	1.80	0.62
36:1:1369:A:OP1	64:N8:21:ARG:NH1	2.32	0.62
36:1:3067:C:OP2	55:M9:62:ARG:NH1	2.33	0.62
36:1:614:C:H2'	36:1:615:U:C6	2.35	0.62
36:1:643:U:O4	36:1:644:G:C6	2.53	0.62
1:2:1518:U:O2'	1:2:1519:G:N3	2.31	0.62
1:2:1717:U:H2'	1:2:1718:U:C6	2.35	0.62
85:5:2440:G:H2'	85:5:2441:A:C8	2.34	0.62
80:6:1060:U:O2'	92:6:2038:OHX:N5	2.33	0.62
92:6:1996:OHX:N6	92:6:2033:OHX:N6	2.47	0.62
80:6:218:A:H2'	80:6:219:A:H5''	1.82	0.62
85:5:1196:C:O2	92:7:209:OHX:N4	2.33	0.62
13:C1:101:GLU:OE2	25:D3:16:ARG:NH2	2.52	0.62
14:C2:42:ALA:HB1	14:C2:47:GLU:HB3	1.81	0.62
42:L5:4:GLN:OE1	42:L5:4:GLN:N	2.27	0.62
50:M4:47:ASP:HB2	50:M4:55:ARG:HG3	1.82	0.62
59:N3:17:LEU:HD11	59:N3:98:ASN:HB3	2.06	0.62
66:O0:30:THR:HB	66:O0:91:SER:HB2	1.82	0.62
6:S4:29:PRO:HA	80:6:448:C:H5''	366.87	0.62
36:1:1563:C:H2'	36:1:1564:U:O4'	1.99	0.61
36:1:435:C:H2'	36:1:436:A:C8	2.35	0.61
1:2:1470:A:H2'	1:2:1471:G:H8	1.65	0.61
85:5:1313:G:O6	92:5:3663:OHX:N6	2.33	0.61
85:5:2662:G:H2'	85:5:2663:G:H8	1.65	0.61
85:5:337:G:C6	85:5:339:C:N4	2.68	0.61
3:S1:77:GLU:OE1	16:C4:114:ARG:NH2	2.30	0.61
36:1:2947:G:N3	40:L3:250:ALA:HB1	2.14	0.61
46:L9:162:GLN:HG3	46:L9:163:GLN:N	2.13	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:O8:58:ASP:HB3	74:O8:61:LYS:HB2	1.81	0.61
4:S2:53:ILE:HG13	4:S2:72:LEU:HG	3.48	0.61
7:S5:61:TYR:HE2	7:S5:164:PRO:HG2	3.90	0.61
36:1:1288:U:H2'	36:1:1289:G:H8	1.66	0.61
36:1:420:G:O2'	36:1:2384:A:N3	2.31	0.61
36:1:1592:G:O6	93:1:3821:MG:MG	1.44	0.61
1:2:1158:U:H2'	1:2:1159:G:C8	2.35	0.61
1:2:1573:G:H2'	1:2:1574:C:H6	1.64	0.61
1:2:252:U:H4'	6:S4:132:GLY:O	2.00	0.61
1:2:868:G:H21	16:C4:123:SER:CB	2.12	0.61
85:5:1015:U:O2'	85:5:1016:C:H3'	2.00	0.61
55:M9:9:ARG:NH2	85:5:1603:A:OP1	109.85	0.61
39:L2:156:LYS:NZ	85:5:2158:A:OP2	203.77	0.61
92:5:3625:OHX:N4	92:5:3643:OHX:N1	2.48	0.61
85:5:589:A:H1'	85:5:1337:A:H5''	1.82	0.61
85:5:979:U:C2	85:5:980:A:N3	2.68	0.61
18:C6:66:ARG:NH1	80:6:1351:G:OP1	435.58	0.61
13:C1:125:VAL:HG23	13:C1:139:VAL:HA	2.27	0.61
28:D6:36:ILE:HG21	28:D6:78:ALA:HB2	1.81	0.61
39:L2:102:LEU:HD13	39:L2:166:ILE:HD11	2.74	0.61
40:L3:147:GLU:HA	40:L3:147:GLU:OE2	1.98	0.61
40:L3:162:VAL:O	40:L3:178:LEU:HD12	2.41	0.61
42:L5:197:SER:OG	42:L5:202:GLY:HA3	2.27	0.61
45:L8:140:VAL:O	45:L8:144:GLU:HG3	2.32	0.61
45:L8:156:ASP:O	45:L8:183:LYS:HE3	7.89	0.61
46:L9:87:LYS:HD3	46:L9:89:LYS:HE2	2.99	0.61
51:M5:93:LYS:HG3	85:5:289:A:C2	145.88	0.61
54:M8:66:ARG:HH21	85:5:744:A:P	167.02	0.61
56:N0:155:ARG:NH2	56:N0:172:TYR:H	4.56	0.61
60:N4:56:ARG:HB3	60:N4:61:LYS:HB2	3.44	0.61
71:O5:10:ARG:NH2	38:8:65:A:O3'	33.43	0.61
73:O7:18:LEU:HA	73:O7:25:ARG:H	1.65	0.61
10:S8:138:ASN:HD22	80:6:197:A:H61	277.73	0.61
11:S9:11:THR:O	11:S9:47:PHE:HD2	3.30	0.61
36:1:1362:G:H1'	44:L7:159:GLN:NE2	2.15	0.61
36:1:3050:U:OP2	92:1:3711:OHX:N6	2.33	0.61
1:2:10:G:N1	1:2:1128:U:O2	2.34	0.61
1:2:633:U:H3	1:2:949:A:H61	1.48	0.61
85:5:1794:G:O2'	85:5:1795:U:H5'	2.01	0.61
51:M5:28:TRP:CD1	85:5:2515:A:H5''	159.80	0.61
85:5:955:U:H2'	85:5:956:U:C6	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:D1:38:LYS:NZ	23:D1:49:GLU:HB3	4.61	0.61
23:D1:56:SER:OG	23:D1:59:VAL:HG23	2.33	0.61
26:D4:35:VAL:O	26:D4:36:SER:HB3	2.00	0.61
40:L3:169:THR:HG23	40:L3:171:LEU:H	2.97	0.61
43:L6:164:SER:OG	43:L6:166:LYS:NZ	4.30	0.61
45:L8:160:ILE:O	45:L8:164:VAL:HG13	1.99	0.61
58:N2:41:ILE:HD13	58:N2:71:PHE:CE2	2.90	0.61
62:N6:75:ARG:NH1	38:8:72:A:H4'	42.67	0.61
66:O0:27:TYR:CD1	66:O0:52:ARG:HD3	2.35	0.61
75:O9:36:ARG:NH2	85:5:401:U:O2	94.55	0.61
2:S0:172:LEU:HD13	2:S0:176:LEU:HD11	1.82	0.61
6:S4:136:VAL:HG11	6:S4:148:ARG:NH2	2.16	0.61
8:S6:48:TYR:CE2	8:S6:121:LEU:HD21	2.36	0.61
36:1:1337:A:C6	36:1:1338:C:C4	2.88	0.61
36:1:1595:U:O2'	36:1:1596:C:H5''	2.00	0.61
36:1:2669:G:C2	36:1:2686:A:C2	2.88	0.61
36:1:2689:A:C8	36:1:2702:A:N6	2.68	0.61
36:1:2871:G:OP2	92:1:3702:OHX:N1	2.33	0.61
36:1:501:A:H2'	36:1:502:U:C6	2.35	0.61
36:1:578:A:O2'	41:L4:335:ALA:HB2	2.00	0.61
1:2:1260:G:H2'	1:2:1261:G:O4'	2.00	0.61
85:5:1307:G:C2	85:5:1308:A:C2	2.88	0.61
85:5:1651:U:H2'	85:5:1652:G:H8	1.64	0.61
70:O4:67:LYS:HB2	85:5:1821:U:O2	167.55	0.61
80:6:1111:G:C2	80:6:1135:U:O2	2.54	0.61
80:6:1237:G:H2'	80:6:1238:A:C8	2.35	0.61
80:6:1357:A:H2'	80:6:1358:G:C8	2.35	0.61
28:D6:38:ARG:NH2	80:6:1798:U:OP2	333.13	0.61
15:C3:76:LYS:HE2	80:6:813:U:H5'	317.08	0.61
14:C2:62:LEU:HB3	14:C2:120:VAL:HG13	2.56	0.61
16:C4:31:THR:HB	16:C4:38:THR:HA	1.83	0.61
20:C8:23:ASP:HB3	20:C8:26:ILE:HD11	5.39	0.61
21:C9:52:GLY:HA2	21:C9:55:TYR:HD2	1.92	0.61
1:2:1017:C:HO2'	24:D2:2:THR:N	1.98	0.61
41:L4:16:THR:HG22	41:L4:18:ASN:N	2.16	0.61
44:L7:93:ASN:O	44:L7:94:LYS:HB2	2.50	0.61
50:M4:49:PRO:O	50:M4:50:LYS:C	2.87	0.61
74:O8:39:ARG:NH1	74:O8:63:LYS:HE2	9.62	0.61
2:S0:157:ASP:OD2	23:D1:32:VAL:HG11	3.46	0.61
3:S1:134:VAL:HB	3:S1:219:LYS:HB2	1.81	0.61
3:S1:176:VAL:O	3:S1:178:GLY:N	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S7:148:LYS:O	9:S7:149:ILE:HG13	2.51	0.61
36:1:3028:G:H2'	36:1:3029:A:C8	2.35	0.61
1:2:1507:A:H2	1:2:1573:G:H1'	1.65	0.61
1:2:1331:A:OP1	92:2:1999:OHX:N1	2.34	0.61
1:2:45:U:C2	1:2:436:A:N6	2.69	0.61
1:2:531:C:OP2	92:2:1949:OHX:N4	2.34	0.61
85:5:2581:U:H2'	85:5:2582:C:H6	1.64	0.61
85:5:311:C:H42	85:5:2778:G:H1	1.48	0.61
73:O7:24:ARG:NH1	85:5:361:A:OP1	119.84	0.61
26:D4:104:SER:HB3	26:D4:107:GLN:HG3	1.83	0.61
40:L3:114:VAL:O	40:L3:117:ARG:N	2.91	0.61
42:L5:78:ALA:HB3	42:L5:105:ILE:HG12	1.82	0.61
42:L5:107:ARG:NH1	42:L5:120:LYS:O	3.04	0.61
36:1:86:G:C6	49:M3:13:HIS:CD2	2.89	0.61
56:N0:33:ASN:OD1	56:N0:35:VAL:N	2.30	0.61
56:N0:52:LYS:O	56:N0:54:ALA:N	2.32	0.61
68:O2:91:THR:HG22	68:O2:92:TYR:HD2	2.78	0.61
74:O8:73:LEU:O	74:O8:75:VAL:N	2.33	0.61
4:S2:152:HIS:H	4:S2:152:HIS:CD2	3.15	0.61
6:S4:71:LYS:HG2	6:S4:76:VAL:HG22	5.03	0.61
92:2:1914:OHX:N2	10:S8:17:LYS:O	2.33	0.61
36:1:2616:C:H2'	36:1:2617:U:H5'	1.82	0.61
85:5:1338:C:H2'	85:5:1339:C:H6	1.64	0.61
85:5:1904:C:C2	85:5:2951:G:H5'	2.36	0.61
85:5:869:G:H2'	85:5:870:G:O4'	2.00	0.61
80:6:1068:C:H2'	80:6:1069:A:C8	2.35	0.61
24:D2:76:SER:OG	80:6:1102:G:OP1	351.46	0.61
80:6:1691:A:H2'	80:6:1692:G:C8	2.35	0.61
80:6:337:G:N2	80:6:340:U:OP2	2.33	0.61
11:S9:2:PRO:HD2	80:6:461:G:OP1	360.28	0.61
80:6:760:A:OP2	92:6:1938:OHX:N3	2.34	0.61
20:C8:139:LYS:O	80:6:1461:C:N4	343.50	0.61
20:C8:28:ILE:HD11	20:C8:56:LYS:HB2	6.93	0.61
41:L4:269:SER:O	41:L4:269:SER:OG	2.12	0.61
41:L4:300:ARG:HG3	41:L4:301:PRO:HD2	4.19	0.61
41:L4:312:VAL:O	92:5:3555:OHX:N2	222.80	0.61
51:M5:70:ASN:HB3	51:M5:92:LEU:O	2.01	0.61
55:M9:7:GLN:H	55:M9:7:GLN:CD	3.01	0.61
55:M9:96:ILE:HG22	55:M9:100:ARG:HE	1.65	0.61
64:N8:74:ASN:HB2	64:N8:76:ASP:HB3	3.28	0.61
3:S1:219:LYS:NZ	79:Q3:92:ALA:O	9.06	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S3:53:THR:HG22	5:S3:91:VAL:HG11	4.89	0.61
36:1:1631:C:C2	36:1:1812:G:N2	2.69	0.61
36:1:3364:C:H2'	36:1:3365:U:C6	2.36	0.61
80:6:1382:A:O2'	80:6:1383:G:H5''	2.01	0.61
80:6:310:C:O2'	80:6:311:U:H5'	2.01	0.61
13:C1:53:TYR:CZ	13:C1:113:PRO:HG2	2.36	0.61
15:C3:7:ALA:O	15:C3:9:LYS:NZ	4.33	0.61
17:C5:18:ARG:NH1	20:C8:90:ASN:OD1	4.72	0.61
22:D0:42:VAL:HG22	22:D0:52:LYS:NZ	2.15	0.61
25:D3:79:ASN:HB3	25:D3:81:LYS:H	1.65	0.61
26:D4:20:ARG:HB3	26:D4:76:TYR:CD2	3.25	0.61
7:S5:109:LYS:HE2	27:D5:97:LYS:HE2	1.83	0.61
33:E1:144:CYS:O	33:E1:146:SER:N	2.34	0.61
39:L2:220:GLY:O	39:L2:221:LYS:HG3	2.01	0.61
36:1:2943:G:OP2	40:L3:2:SER:HB2	2.00	0.61
41:L4:71:VAL:HG12	41:L4:72:ALA:N	3.61	0.61
42:L5:64:ILE:HG13	42:L5:109:THR:HG21	4.54	0.61
42:L5:140:ARG:HD3	85:5:1080:A:OP1	226.61	0.61
42:L5:217:GLU:O	42:L5:220:SER:OG	4.79	0.61
42:L5:259:LYS:O	42:L5:265:TYR:OH	2.67	0.61
42:L5:68:THR:HG22	42:L5:70:THR:H	1.64	0.61
46:L9:109:ALA:HB1	46:L9:111:PHE:CE2	2.35	0.61
46:L9:171:ASP:O	46:L9:173:ARG:N	3.33	0.61
47:M0:191:LYS:HE2	47:M0:212:GLU:CD	2.20	0.61
48:M1:17:LEU:HD21	48:M1:19:LEU:HD21	2.60	0.61
51:M5:169:LYS:HE2	51:M5:174:ILE:HG21	4.35	0.61
51:M5:85:THR:O	51:M5:87:GLN:N	3.44	0.61
54:M8:139:ILE:O	54:M8:140:LEU:HD23	2.34	0.61
55:M9:128:LYS:NZ	85:5:1721:U:O4	231.36	0.61
55:M9:4:LEU:HB3	55:M9:7:GLN:HG2	4.45	0.61
57:N1:157:GLU:HG2	57:N1:159:PHE:CZ	6.16	0.61
60:N4:23:ARG:HG2	60:N4:24:GLY:H	2.03	0.61
68:O2:16:LYS:O	68:O2:17:PHE:HB2	4.54	0.61
72:O6:86:LYS:HD2	72:O6:90:MET:HE1	3.42	0.61
38:4:45:C:O2'	75:O9:11:GLN:OE1	2.19	0.61
7:S5:117:THR:HG21	7:S5:194:LEU:HD12	1.82	0.61
8:S6:192:ALA:HB1	8:S6:196:ARG:HH12	1.64	0.61
36:1:197:G:N2	36:1:372:A:C8	2.69	0.61
36:1:2114:C:OP1	36:1:2116:G:C8	2.54	0.61
1:2:1352:U:O4	92:2:1972:OHX:N5	2.34	0.61
1:2:195:G:H2'	1:2:196:G:H5''	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1468:C:OP1	92:2:1976:OHX:N6	2.33	0.61
1:2:609:U:H4'	1:2:610:G:O5'	2.01	0.61
85:5:22:G:H1'	38:8:104:A:N3	2.15	0.61
44:L7:217:PRO:HA	92:5:3506:OHX:N5	262.52	0.61
85:5:1752:A:OP2	92:5:3579:OHX:N3	2.34	0.61
85:5:3289:G:N7	92:5:3600:OHX:N2	2.48	0.61
5:S3:162:GLN:HG3	80:6:1333:C:O4'	425.37	0.61
15:C3:103:GLU:HA	15:C3:106:ARG:NH2	2.15	0.61
15:C3:55:ARG:HA	15:C3:60:VAL:O	2.50	0.61
21:C9:28:LEU:HA	21:C9:111:ILE:HD11	4.33	0.61
2:S0:55:GLU:OE2	23:D1:80:LYS:N	2.49	0.61
14:C2:73:LYS:NZ	33:E1:108:VAL:HB	2.16	0.61
41:L4:122:THR:HG22	41:L4:235:LEU:HB2	1.82	0.61
41:L4:20:LEU:HD11	41:L4:252:GLU:HG3	1.97	0.61
42:L5:99:TYR:CD2	42:L5:199:ILE:HG23	2.75	0.61
56:N0:93:GLU:OE1	56:N0:135:VAL:HG13	2.63	0.61
36:1:1571:A:H2'	36:1:1572:U:O4'	2.00	0.61
36:1:2295:A:OP1	59:N3:63:LYS:NZ	2.34	0.61
36:1:90:C:O2'	36:1:282:G:OP1	2.19	0.61
36:1:3033:A:H2'	36:1:3034:C:C6	2.36	0.61
92:1:3511:OHX:N1	92:1:3690:OHX:N4	2.49	0.61
56:N0:112:ALA:HB2	85:5:1321:G:H21	296.37	0.61
85:5:1631:C:H5''	85:5:1632:A:H5''	1.83	0.61
85:5:1650:G:H1	85:5:1805:C:H42	1.49	0.61
85:5:1308:A:OP2	85:5:2368:A:O2'	2.19	0.61
85:5:3171:U:H3	85:5:3279:A:H61	1.49	0.61
85:5:3358:U:H2'	85:5:3359:A:H8	1.66	0.61
85:5:342:A:N1	85:5:349:A:O2'	2.28	0.61
85:5:750:G:H2'	85:5:751:A:H8	1.66	0.61
85:5:770:G:O2'	85:5:771:A:OP2	2.19	0.61
85:5:789:A:H2'	85:5:790:U:H6	1.64	0.61
80:6:357:G:OP2	92:6:1929:OHX:N6	2.34	0.61
28:D6:37:LYS:NZ	80:6:933:A:OP2	321.07	0.61
15:C3:73:ARG:HD3	80:6:859:A:C6	328.04	0.61
40:L3:76:VAL:HG21	40:L3:323:MET:SD	2.40	0.61
41:L4:229:ASN:OD1	41:L4:230:VAL:N	2.33	0.61
41:L4:337:GLU:HB2	41:L4:339:LEU:HD23	1.83	0.61
42:L5:183:TRP:CH2	42:L5:188:GLU:HA	2.36	0.61
44:L7:123:THR:HA	44:L7:126:LEU:HB2	1.82	0.61
46:L9:27:VAL:HG11	46:L9:79:ILE:HA	1.82	0.61
47:M0:7:ARG:NH1	85:5:2828:G:OP1	269.50	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:M8:3:ILE:HG13	54:M8:5:HIS:HE1	4.28	0.61
69:O3:75:HIS:HB3	69:O3:80:VAL:HB	1.83	0.61
61:N5:51:VAL:HG12	71:O5:66:VAL:HG21	1.83	0.61
71:O5:85:THR:HG22	71:O5:87:ALA:N	2.37	0.61
74:O8:12:LEU:O	74:O8:15:THR:OG1	2.65	0.61
2:S0:195:TRP:CD2	2:S0:197:ILE:HB	3.50	0.61
2:S0:74:VAL:HG23	2:S0:118:PRO:HB3	1.82	0.61
34:SR:206:PRO:HG2	34:SR:247:PRO:HA	2.15	0.61
36:1:1764:U:C5	36:1:1765:U:H1'	2.36	0.61
36:1:2202:C:H2'	36:1:2203:U:O4'	2.00	0.61
36:1:2725:U:O4	92:1:3446:OHX:N2	2.34	0.61
92:2:1921:OHX:N5	92:2:2040:OHX:N6	2.48	0.61
1:2:229:U:H3	1:2:236:A:H61	1.48	0.61
85:5:1596:C:H2'	85:5:1597:C:C6	2.36	0.61
85:5:2273:G:O6	92:5:3702:OHX:N5	2.33	0.61
85:5:1440:G:N7	92:5:3467:OHX:N6	2.49	0.61
80:6:1196:A:H4'	80:6:1197:C:O5'	2.00	0.61
80:6:1688:U:H2'	80:6:1689:A:C8	2.36	0.61
80:6:84:A:H2'	80:6:85:A:O4'	2.01	0.61
18:C6:34:SER:HB3	18:C6:38:LEU:HD12	1.82	0.61
19:C7:71:PHE:CE1	19:C7:74:GLN:HB2	4.87	0.61
21:C9:40:SER:O	21:C9:43:ASN:HB2	2.00	0.61
25:D3:68:ILE:O	25:D3:70:LYS:NZ	2.34	0.61
7:S5:162:VAL:HB	30:D8:45:LYS:HB3	1.83	0.61
42:L5:52:VAL:HG21	42:L5:65:ILE:HD12	1.83	0.61
49:M3:74:GLY:HA3	49:M3:98:ASP:HB2	1.83	0.61
59:N3:6:ALA:HB2	59:N3:126:TRP:CH2	2.61	0.61
62:N6:120:GLN:HE22	62:N6:126:LEU:HA	9.05	0.61
66:O0:43:ILE:HG22	66:O0:70:PHE:HB2	1.83	0.61
71:O5:44:ILE:O	71:O5:48:ARG:HG3	3.40	0.61
10:S8:25:ARG:O	10:S8:28:GLU:HG2	2.00	0.61
11:S9:8:TYR:O	92:S9:201:OHX:N5	2.34	0.61
36:1:1334:U:H5''	44:L7:206:LYS:HB3	1.83	0.60
36:1:180:C:H2'	36:1:181:U:C6	2.35	0.60
36:1:2445:A:N6	36:1:2502:A:C2	2.69	0.60
36:1:592:A:H2'	36:1:593:C:C6	2.36	0.60
1:2:877:U:H2'	1:2:878:G:C8	2.36	0.60
85:5:1342:C:H42	85:5:1362:G:H1	1.47	0.60
85:5:2107:A:C2	85:5:2108:C:C2	2.89	0.60
85:5:2165:G:N2	85:5:2170:U:O4	2.33	0.60
85:5:656:A:H2'	85:5:657:A:C8	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:920:A:OP1	85:5:922:U:H5	1.84	0.60
80:6:321:C:H42	80:6:1666:U:H5''	1.66	0.60
80:6:763:G:C6	80:6:764:U:C4	2.89	0.60
24:D2:73:GLY:HA3	24:D2:128:PHE:CE1	2.74	0.60
24:D2:73:GLY:N	24:D2:128:PHE:O	3.02	0.60
27:D5:93:SER:HB2	27:D5:100:ILE:HB	1.80	0.60
20:C8:4:VAL:HG21	27:D5:82:HIS:CG	5.18	0.60
40:L3:300:ARG:HB3	40:L3:300:ARG:CZ	5.10	0.60
42:L5:270:LYS:HD2	42:L5:272:TYR:HB2	9.52	0.60
42:L5:281:GLU:O	42:L5:284:ALA:HB3	2.77	0.60
42:L5:64:ILE:HG22	42:L5:75:LEU:HB3	1.81	0.60
43:L6:37:GLY:N	43:L6:54:TYR:O	2.24	0.60
47:M0:210:ILE:HG23	47:M0:217:PHE:CD2	2.50	0.60
44:L7:110:ARG:NH1	54:M8:3:ILE:HD11	2.15	0.60
61:N5:91:ASN:O	61:N5:95:ILE:HG13	2.38	0.60
71:O5:31:LEU:HG	71:O5:41:LEU:HD21	5.77	0.60
5:S3:179:GLN:OE1	5:S3:180:GLY:N	4.98	0.60
10:S8:122:GLY:O	92:S8:301:OHX:N6	2.34	0.60
10:S8:26:LYS:O	10:S8:29:LEU:HD22	2.17	0.60
36:1:1593:A:N3	36:1:1615:C:O2'	2.32	0.60
36:1:2094:C:H2'	36:1:2095:G:C8	2.36	0.60
36:1:40:A:C2	64:N8:40:HIS:CE1	2.89	0.60
36:1:562:C:H2'	36:1:563:U:C6	2.36	0.60
36:1:824:C:H5''	39:L2:21:ARG:HD3	1.82	0.60
1:2:1542:A:N6	20:C8:134:ARG:HD2	2.17	0.60
85:5:2567:C:N4	85:5:2568:C:H41	1.99	0.60
85:5:392:G:C5	85:5:393:U:C5	2.88	0.60
80:6:1159:C:H5''	80:6:1160:A:H5'	1.83	0.60
80:6:16:G:H2'	80:6:17:C:C6	2.35	0.60
75:O9:35:ILE:HD11	38:8:53:A:C2	82.42	0.60
17:C5:60:LEU:HD21	17:C5:92:SER:HB3	1.83	0.60
22:D0:21:LYS:HA	22:D0:94:GLU:HG2	2.66	0.60
44:L7:56:GLU:O	44:L7:58:ALA:N	2.34	0.60
47:M0:127:ALA:O	47:M0:129:VAL:HG23	2.79	0.60
66:O0:70:PHE:CG	66:O0:77:LEU:HD13	2.35	0.60
71:O5:88:LEU:C	71:O5:90:ARG:H	2.04	0.60
6:S4:118:GLU:OE1	6:S4:237:SER:OG	3.37	0.60
6:S4:253:ASP:O	6:S4:257:ALA:N	2.35	0.60
36:1:3082:C:H2'	36:1:3083:G:C8	2.36	0.60
36:1:2128:C:OP1	92:1:3493:OHX:N4	2.35	0.60
92:1:3494:OHX:N2	44:L7:217:PRO:O	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:108:A:H2'	1:2:109:G:C8	2.36	0.60
85:5:2518:C:H2'	85:5:2519:A:H8	1.65	0.60
85:5:3384:U:C2	85:5:3385:U:C5	2.89	0.60
85:5:438:A:N1	85:5:621:A:N6	2.48	0.60
32:E0:26:LYS:NZ	80:6:588:U:OP2	417.23	0.60
39:L2:111:THR:HB	39:L2:136:ILE:HD13	1.82	0.60
39:L2:126:LEU:HD13	39:L2:150:LEU:HD21	2.30	0.60
40:L3:109:HIS:HB2	40:L3:200:GLU:CD	5.35	0.60
42:L5:287:ALA:HA	42:L5:290:ILE:HD11	1.82	0.60
45:L8:128:LYS:HG3	85:5:120:G:C5	98.69	0.60
47:M0:9:TYR:CG	47:M0:97:LEU:HD13	2.36	0.60
49:M3:14:PHE:CE1	85:5:665:A:H1'	133.02	0.60
54:M8:64:VAL:HG13	54:M8:93:ILE:HD11	1.82	0.60
75:O9:4:GLN:HE21	85:5:1833:G:N2	123.77	0.60
6:S4:52:LEU:HB3	6:S4:54:TYR:HD2	2.70	0.60
34:SR:18:GLY:O	34:SR:308:ASN:HA	2.65	0.60
1:2:11:A:O2'	1:2:12:U:H5'	2.00	0.60
1:2:994:G:OP2	92:2:1967:OHX:N5	2.35	0.60
85:5:1613:A:H2'	85:5:1614:C:C6	2.37	0.60
50:M4:132:LYS:HD3	85:5:3230:G:H4'	285.66	0.60
85:5:3258:U:O2'	85:5:3259:U:H3'	2.01	0.60
85:5:760:G:O4'	85:5:771:A:N6	2.34	0.60
80:6:1041:G:H2'	80:6:1042:G:C8	2.36	0.60
80:6:1046:G:C2	80:6:1073:G:C2	2.89	0.60
80:6:1427:A:O2'	80:6:1428:G:OP1	2.18	0.60
20:C8:134:ARG:HD2	80:6:1545:A:OP2	358.08	0.60
80:6:1557:U:O2'	80:6:1558:U:H2'	2.01	0.60
12:C0:4:PRO:HG2	12:C0:7:ASP:HB2	3.58	0.60
28:D6:79:ILE:HD11	80:6:1795:U:H5'	334.60	0.60
42:L5:119:TYR:HE1	42:L5:134:ALA:HA	2.53	0.60
42:L5:155:THR:HA	42:L5:179:ARG:HD3	3.45	0.60
47:M0:63:GLU:HB2	85:5:2853:A:H5'	295.90	0.60
50:M4:23:ILE:HA	50:M4:63:VAL:HG23	1.82	0.60
51:M5:165:THR:OG1	51:M5:166:ALA:N	2.34	0.60
51:M5:47:LYS:HE3	51:M5:51:LEU:HD11	2.40	0.60
52:M6:61:ALA:HA	52:M6:70:PRO:HD2	1.83	0.60
36:1:1723:A:OP2	55:M9:103:ARG:NH2	2.31	0.60
59:N3:79:VAL:HG22	59:N3:99:ALA:O	2.01	0.60
59:N3:13:ILE:HD12	59:N3:85:TRP:CG	3.31	0.60
73:O7:25:ARG:HG3	75:O9:51:ILE:HD12	4.70	0.60
1:2:1281:U:O3'	4:S2:212:LYS:NZ	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S5:144:GLU:HA	7:S5:162:VAL:HG12	1.84	0.60
8:S6:24:ILE:O	8:S6:26:VAL:N	2.34	0.60
34:SR:80:ALA:O	34:SR:92:TRP:N	2.82	0.60
36:1:1752:A:OP2	92:1:3580:OHX:N3	2.34	0.60
36:1:799:G:O6	92:1:3516:OHX:N5	2.35	0.60
36:1:600:G:N2	36:1:604:G:C6	2.69	0.60
1:2:1507:A:C2	1:2:1573:G:H1'	2.36	0.60
1:2:68:A:O2'	1:2:69:G:OP2	2.16	0.60
37:3:71:G:C6	37:3:72:A:N6	2.70	0.60
85:5:118:U:C5	85:5:119:U:C4	2.88	0.60
85:5:173:G:HO2'	85:5:174:C:H6	1.49	0.60
85:5:1877:U:H5''	85:5:1878:G:H5'	1.84	0.60
85:5:3159:C:H2'	85:5:3160:U:H6	1.64	0.60
80:6:1054:U:H2'	80:6:1055:U:C6	2.35	0.60
16:C4:38:THR:HG21	80:6:895:G:H21	263.15	0.60
15:C3:151:ASN:O	92:C3:201:OHX:N4	2.34	0.60
23:D1:4:ASP:HB3	23:D1:5:LYS:HD3	1.82	0.60
39:L2:27:ALA:O	39:L2:28:LYS:HG3	2.01	0.60
42:L5:98:ALA:O	42:L5:162:ALA:HA	2.64	0.60
42:L5:22:ARG:HH11	42:L5:27:LYS:HD3	1.67	0.60
42:L5:85:ARG:NH1	42:L5:86:TYR:OH	2.35	0.60
47:M0:200:LEU:HG	47:M0:201:SER:N	3.24	0.60
45:L8:75:ILE:HD11	51:M5:18:VAL:HG23	2.69	0.60
56:N0:87:THR:C	56:N0:88:HIS:HD1	2.04	0.60
58:N2:37:LEU:HD12	58:N2:37:LEU:H	1.65	0.60
67:O1:50:ARG:NE	67:O1:90:PHE:CE2	3.86	0.60
76:Q0:77:ILE:O	76:Q0:78:ILE:HG12	3.67	0.60
3:S1:147:ALA:O	3:S1:148:ASN:ND2	2.33	0.60
6:S4:79:ASP:OD1	6:S4:82:TYR:N	2.32	0.60
8:S6:92:ARG:O	80:6:405:C:O2'	302.67	0.60
5:S3:222:VAL:HG11	34:SR:229:LYS:HA	3.43	0.60
36:1:2818:U:C6	36:1:2818:U:H5'	2.33	0.60
36:1:346:C:C4	36:1:348:A:N7	2.70	0.60
36:1:2871:G:O5'	92:1:3702:OHX:N5	2.33	0.60
36:1:544:C:H1'	36:1:548:G:H22	1.67	0.60
1:2:1265:U:OP1	92:2:1993:OHX:N5	2.34	0.60
1:2:274:G:H3'	1:2:275:C:C6	2.36	0.60
1:2:986:A:H1'	1:2:988:A:N7	2.16	0.60
50:M4:59:ASN:ND2	85:5:1185:C:OP1	304.38	0.60
85:5:3287:U:N3	85:5:3288:G:N7	2.49	0.60
80:6:1352:G:H2'	80:6:1353:U:O4'	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:43:A:C2	80:6:378:A:C5	2.89	0.60
80:6:427:C:C4	80:6:428:A:N7	2.69	0.60
14:C2:131:ASP:HB2	14:C2:132:GLU:OE1	2.01	0.60
17:C5:115:TYR:N	17:C5:118:GLU:OE1	2.34	0.60
17:C5:122:THR:OG1	80:6:1454:G:O3'	368.57	0.60
24:D2:31:SER:H	24:D2:34:ILE:HB	1.66	0.60
45:L8:147:LYS:O	45:L8:201:THR:HG22	2.02	0.60
49:M3:83:ALA:HA	49:M3:117:LYS:HE3	1.83	0.60
49:M3:124:ILE:HD11	49:M3:126:PHE:CE1	2.36	0.60
43:L6:89:THR:HG21	50:M4:115:PHE:HB2	1.82	0.60
51:M5:44:ARG:NH2	85:5:269:G:OP1	124.19	0.60
36:1:3181:C:O2'	52:M6:164:SER:OG	1.89	0.60
75:O9:37:TYR:CE1	75:O9:39:ALA:HA	3.07	0.60
97:5:3403:SPS:O3	91:P:75:C:OP1	223.38	0.60
2:S0:171:GLY:O	2:S0:175:TYR:N	2.79	0.60
2:S0:179:ARG:HD3	2:S0:183:ARG:NH1	2.50	0.60
1:2:1472:U:P	5:S3:9:ARG:HH22	2.24	0.60
36:1:1256:G:O6	36:1:1261:G:N2	2.34	0.60
36:1:1613:A:H2'	36:1:1614:C:H6	1.66	0.60
36:1:3273:A:O2'	36:1:3274:A:H5'	2.01	0.60
36:1:2767:U:OP1	92:1:3670:OHX:N2	2.35	0.60
1:2:1749:A:H5''	92:2:1969:OHX:N6	2.16	0.60
1:2:67:A:OP1	8:S6:171:LYS:NZ	2.26	0.60
85:5:273:A:N7	92:5:3565:OHX:N3	2.50	0.60
85:5:3274:A:O2'	85:5:3275:U:H6	1.84	0.60
85:5:3078:U:H1'	92:5:3698:OHX:N1	2.17	0.60
85:5:652:G:OP2	92:5:3671:OHX:N3	2.35	0.60
80:6:1314:U:O2'	80:6:1315:U:OP2	2.19	0.60
80:6:320:U:H5	80:6:322:G:H5''	1.65	0.60
42:L5:8:LYS:HD2	37:7:15:C:O2'	311.55	0.60
15:C3:65:VAL:HG12	15:C3:66:ILE:HG23	5.19	0.60
17:C5:126:VAL:HG22	17:C5:127:ARG:H	2.92	0.60
25:D3:35:GLY:O	25:D3:38:PHE:N	2.32	0.60
25:D3:92:CYS:HA	25:D3:95:PHE:CD2	2.74	0.60
26:D4:52:LYS:O	26:D4:54:ALA:N	2.29	0.60
39:L2:126:LEU:HD13	39:L2:150:LEU:CD2	2.64	0.60
40:L3:80:ASP:OD1	40:L3:82:PRO:HD3	3.06	0.60
42:L5:178:ASN:OD1	42:L5:178:ASN:N	2.66	0.60
42:L5:86:TYR:CE1	42:L5:247:ILE:HA	2.60	0.60
49:M3:28:GLN:HB3	51:M5:201:ARG:HH11	1.66	0.60
53:M7:60:PHE:CE2	53:M7:82:ARG:HB2	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:N1:57:TYR:HA	57:N1:60:LYS:HD2	3.65	0.60
61:N5:106:ASP:C	61:N5:127:THR:HG23	2.21	0.60
70:O4:83:ASN:OD1	70:O4:83:ASN:N	2.77	0.60
3:S1:128:LYS:HD2	3:S1:132:ASP:HB3	4.60	0.60
34:SR:108:SER:OG	34:SR:109:ASP:N	2.57	0.60
19:C7:27:ASP:OD1	34:SR:38:ARG:NH2	2.32	0.60
36:1:2736:A:OP1	57:N1:92:ARG:NH1	2.35	0.60
36:1:3203:U:O4	92:1:3713:OHX:N4	2.33	0.60
1:2:1017:C:OP1	15:C3:9:LYS:NZ	2.34	0.60
1:2:401:A:O2'	1:2:402:C:H4'	2.02	0.60
85:5:3242:G:N2	85:5:3245:A:OP2	2.35	0.60
85:5:354:U:OP1	92:5:3706:OHX:N2	2.34	0.60
85:5:65:A:C4	85:5:110:G:N7	2.70	0.60
85:5:80:G:H2'	85:5:81:C:H6	1.65	0.60
80:6:1214:U:O4	92:6:1927:OHX:N6	2.24	0.60
80:6:1237:G:H2'	80:6:1238:A:H8	1.66	0.60
80:6:385:A:H2'	80:6:386:G:C8	2.37	0.60
24:D2:102:VAL:O	24:D2:113:HIS:N	2.34	0.60
39:L2:149:ARG:NH2	39:L2:252:THR:O	5.05	0.60
39:L2:30:ARG:O	39:L2:163:ARG:NH2	2.29	0.60
40:L3:227:GLU:HG3	40:L3:270:ARG:NE	4.38	0.60
40:L3:260:VAL:HG12	85:5:2394:G:N9	213.04	0.60
40:L3:35:ASP:HA	40:L3:184:ASN:ND2	2.38	0.60
52:M6:114:LYS:HG2	85:5:3180:A:C5	269.77	0.60
52:M6:54:TYR:CE2	52:M6:58:LEU:HD13	2.37	0.60
66:O0:70:PHE:CD2	66:O0:77:LEU:HD13	2.37	0.60
68:O2:12:LYS:HD3	68:O2:57:TYR:HA	2.36	0.60
92:1:3408:OHX:N4	73:O7:46:SER:OG	2.35	0.60
2:S0:11:PRO:HA	2:S0:14:ALA:HB3	2.59	0.60
5:S3:163:PRO:HA	5:S3:166:ASP:HB2	1.84	0.60
6:S4:251:GLU:O	6:S4:255:ARG:HG2	5.28	0.60
6:S4:42:LEU:HD12	6:S4:109:PHE:HD2	3.78	0.60
7:S5:99:MET:O	7:S5:100:ASN:HB2	3.04	0.60
34:SR:301:LEU:N	34:SR:313:TRP:O	2.70	0.60
36:1:121:A:H4'	36:1:122:A:OP2	2.01	0.60
36:1:1913:A:N3	36:1:2120:A:H2'	2.17	0.60
36:1:2403:G:C2	36:1:2405:C:C4	2.90	0.60
1:2:1171:G:O2'	1:2:1413:U:OP1	2.17	0.60
1:2:150:U:OP1	26:D4:123:LYS:NZ	2.33	0.60
1:2:1184:G:N2	1:2:1583:A:H5'	2.17	0.60
1:2:1744:U:O2'	1:2:1745:A:OP2	2.19	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:619:A:O2'	1:2:1123:G:O2'	2.13	0.60
85:5:1228:C:H2'	85:5:1229:G:C8	2.36	0.60
85:5:1462:A:C6	85:5:1463:U:C4	2.90	0.60
85:5:286:U:H2'	85:5:287:G:C8	2.37	0.60
85:5:437:G:N7	92:5:3747:OHX:N6	2.40	0.60
80:6:546:U:H2'	80:6:547:U:C6	2.37	0.60
80:6:778:G:N2	80:6:780:A:H5'	2.16	0.60
80:6:781:U:O2	80:6:781:U:H5''	2.02	0.60
15:C3:112:LYS:NZ	80:6:975:C:OP1	280.16	0.60
26:D4:20:ARG:NE	26:D4:22:GLN:HE21	5.01	0.60
26:D4:76:TYR:HB2	26:D4:82:ALA:HB2	2.18	0.60
36:1:2525:G:OP2	39:L2:37:ARG:NH1	2.35	0.60
41:L4:74:ILE:HG22	41:L4:75:PRO:HD2	1.84	0.60
43:L6:36:PRO:HA	43:L6:54:TYR:CD1	2.36	0.60
47:M0:87:LEU:HD23	47:M0:138:VAL:CG2	4.55	0.60
61:N5:113:LEU:HD21	61:N5:121:LYS:HD2	1.84	0.60
67:O1:20:LEU:HD11	67:O1:32:ALA:HB2	1.89	0.60
72:O6:26:ILE:C	72:O6:28:TYR:H	2.05	0.60
36:1:2899:C:O2'	36:1:2901:G:OP2	2.16	0.60
36:1:2973:G:H5''	36:1:2974:U:OP2	2.02	0.60
36:1:3003:G:H1'	36:1:3146:G:H22	1.65	0.60
1:2:1416:G:H2'	1:2:1417:U:C6	2.37	0.60
85:5:655:C:H2'	85:5:656:A:H8	1.67	0.60
4:S2:159:THR:HG21	80:6:1097:U:O3'	383.07	0.60
7:S5:106:LYS:NZ	80:6:1527:C:OP1	368.48	0.60
80:6:1671:A:H2'	80:6:1672:G:O4'	2.02	0.60
80:6:1680:G:O6	92:6:1948:OHX:N6	2.35	0.60
80:6:21:U:H2'	80:6:22:A:H8	1.66	0.60
80:6:271:A:N3	80:6:285:G:N1	2.50	0.60
28:D6:62:TYR:CG	28:D6:63:ALA:N	2.70	0.60
32:E0:17:GLN:OE1	80:6:563:U:H4'	382.89	0.60
32:E0:58:PRO:HA	80:6:558:U:OP1	416.84	0.60
36:1:608:A:O3'	41:L4:326:ARG:NH1	2.34	0.60
41:L4:337:GLU:O	41:L4:339:LEU:N	2.34	0.60
42:L5:59:ASP:OD2	42:L5:60:ILE:N	3.24	0.60
47:M0:38:LYS:NZ	47:M0:45:GLU:OE1	2.30	0.60
57:N1:60:LYS:HB3	57:N1:76:ILE:HD12	2.81	0.60
58:N2:21:SER:HB3	58:N2:107:PHE:HB2	2.63	0.60
58:N2:75:TYR:CE1	58:N2:79:LEU:HD11	2.47	0.60
68:O2:3:SER:HB3	68:O2:71:HIS:NE2	4.10	0.60
43:L6:13:GLU:OE2	68:O2:88:HIS:HA	2.45	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:O2:89:THR:HG23	68:O2:90:LYS:N	4.34	0.60
74:O8:12:LEU:HD13	74:O8:15:THR:HG21	7.26	0.60
76:Q0:88:LYS:HD2	76:Q0:89:TYR:HE2	1.67	0.60
7:S5:118:LEU:HD22	7:S5:129:PRO:HB2	1.82	0.60
8:S6:167:LYS:HE2	80:6:73:U:H5	371.92	0.60
11:S9:72:GLU:OE2	80:6:761:G:O2'	396.54	0.60
36:1:2503:G:H1'	36:1:2504:U:C5	2.37	0.59
36:1:3206:C:H5"	36:1:3207:U:O5'	2.01	0.59
1:2:1567:G:N2	1:2:1594:A:OP2	2.32	0.59
1:2:651:G:O6	92:2:1980:OHX:N4	2.35	0.59
1:2:806:G:H2'	1:2:807:G:C8	2.36	0.59
85:5:1366:A:H2'	85:5:1367:G:C8	2.37	0.59
85:5:917:A:C6	85:5:918:C:C4	2.90	0.59
80:6:560:U:H2'	80:6:561:G:H8	1.66	0.59
6:S4:106:LYS:NZ	80:6:788:A:OP1	397.04	0.59
80:6:875:G:C2	80:6:953:G:N2	2.69	0.59
80:6:892:A:H2'	80:6:893:U:O4'	2.02	0.59
18:C6:82:ARG:HH22	18:C6:114:ARG:HB3	1.67	0.59
18:C6:7:VAL:HG21	18:C6:92:TYR:HA	3.27	0.59
2:S0:36:TYR:OH	23:D1:66:ASP:OD2	2.19	0.59
25:D3:92:CYS:O	25:D3:95:PHE:N	2.34	0.59
1:2:151:G:O6	26:D4:124:ARG:NH2	2.35	0.59
28:D6:74:CYS:SG	28:D6:77:CYS:HB2	2.42	0.59
33:E1:143:LYS:HD3	80:6:1254:U:OP1	456.87	0.59
36:1:2854:U:OP2	47:M0:3:ARG:NH2	2.35	0.59
49:M3:67:ARG:HG2	64:N8:105:LEU:HD11	1.82	0.59
54:M8:23:ASN:HB3	54:M8:26:LEU:HB2	1.82	0.59
57:N1:57:TYR:CG	57:N1:89:LEU:HD21	2.38	0.59
59:N3:2:SER:HA	59:N3:56:ASP:HA	4.97	0.59
70:O4:74:ARG:HG2	70:O4:75:ALA:N	2.63	0.59
78:Q2:50:PHE:O	92:Q2:502:OHX:N2	2.34	0.59
36:1:1658:G:H2'	36:1:1659:U:H6	1.67	0.59
36:1:2443:A:N6	36:1:2504:U:O4	2.35	0.59
36:1:729:C:H2'	36:1:730:C:C6	2.35	0.59
1:2:1318:U:H2'	1:2:1319:A:C8	2.37	0.59
1:2:460:A:H5'	1:2:461:G:OP2	2.02	0.59
85:5:1119:C:OP2	92:5:3489:OHX:N2	2.35	0.59
85:5:1273:A:H3'	85:5:1274:A:H8	1.66	0.59
85:5:132:C:C2'	85:5:133:U:H5"	2.33	0.59
85:5:2437:G:H2'	85:5:2438:A:O4'	2.02	0.59
85:5:595:G:H1	85:5:609:G:H5"	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:87:U:H2'	85:5:88:A:H8	1.67	0.59
80:6:271:A:H5'	80:6:272:U:P	2.42	0.59
17:C5:63:ALA:HA	17:C5:66:ALA:HB3	3.41	0.59
23:D1:70:ASN:OD1	23:D1:70:ASN:N	2.66	0.59
24:D2:82:LYS:NZ	80:6:794:U:H1'	359.20	0.59
40:L3:186:GLY:O	40:L3:190:GLU:HB2	2.21	0.59
40:L3:41:VAL:HA	40:L3:184:ASN:O	3.49	0.59
36:1:598:A:OP1	44:L7:41:ARG:NH2	2.35	0.59
47:M0:168:SER:O	47:M0:170:LYS:N	2.72	0.59
49:M3:73:ARG:HG2	49:M3:98:ASP:HB2	2.79	0.59
52:M6:157:GLU:OE2	52:M6:160:ARG:HD3	2.01	0.59
58:N2:84:LEU:HA	58:N2:89:LEU:HB2	1.83	0.59
59:N3:67:PRO:O	59:N3:69:LEU:N	2.99	0.59
3:S1:226:GLY:HA2	85:5:2536:A:H4'	257.18	0.59
4:S2:133:LYS:O	4:S2:136:VAL:HG13	2.02	0.59
6:S4:153:ASN:O	6:S4:174:LYS:NZ	2.33	0.59
8:S6:55:GLY:CA	8:S6:63:MET:HE3	3.41	0.59
36:1:1072:G:H2'	36:1:1073:U:C6	2.37	0.59
36:1:2772:C:H4'	36:1:2773:C:H5'	1.83	0.59
36:1:3037:U:H2'	36:1:3038:U:C6	2.37	0.59
1:2:509:G:H2'	1:2:510:G:C8	2.36	0.59
1:2:66:U:H5'	8:S6:173:PRO:HA	1.84	0.59
37:3:11:A:O2'	37:3:13:A:OP2	2.17	0.59
85:5:2147:A:H2'	85:5:2148:U:H6	1.66	0.59
69:O3:86:ARG:HH22	85:5:498:A:H5'	215.48	0.59
15:C3:94:LYS:HG2	15:C3:118:ILE:HD13	2.91	0.59
18:C6:103:ASN:HA	18:C6:106:LYS:HB2	2.68	0.59
18:C6:39:VAL:HG12	18:C6:41:PRO:HD2	4.27	0.59
26:D4:8:ARG:HD2	80:6:780:A:N3	437.34	0.59
20:C8:5:VAL:HG23	27:D5:42:LEU:HD23	1.82	0.59
39:L2:126:LEU:O	39:L2:127:ALA:HB3	2.02	0.59
40:L3:384:LYS:O	92:L3:402:OHX:N6	33.45	0.59
45:L8:121:SER:O	45:L8:123:GLN:N	2.67	0.59
36:1:269:G:H5'	51:M5:120:TRP:CE3	2.37	0.59
92:1:3449:OHX:N3	51:M5:33:LYS:O	2.36	0.59
36:1:291:C:OP1	51:M5:68:ARG:HB3	2.02	0.59
55:M9:173:ARG:HH21	55:M9:177:VAL:HG21	10.07	0.59
72:O6:51:SER:HG	72:O6:54:GLU:CD	3.89	0.59
75:O9:23:LEU:HD22	75:O9:24:PRO:CD	2.28	0.59
4:S2:225:LEU:HD13	24:D2:68:ARG:HA	1.84	0.59
1:2:66:U:C5	8:S6:173:PRO:HG3	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S7:46:ILE:HD11	9:S7:60:ILE:HG12	1.83	0.59
11:S9:66:ASP:HB3	11:S9:69:ARG:HB3	2.22	0.59
1:2:542:A:HO2'	1:2:543:C:C5'	2.15	0.59
1:2:553:G:C6	1:2:554:C:N3	2.70	0.59
1:2:887:G:N2	1:2:888:A:H1'	2.18	0.59
37:3:74:C:H1'	37:3:106:U:O2	2.02	0.59
85:5:1192:C:C4	92:5:3589:OHX:N6	2.70	0.59
85:5:1718:G:N3	85:5:1727:G:N2	2.49	0.59
85:5:1815:U:O2'	85:5:1816:A:OP2	2.20	0.59
85:5:1846:C:H5'	85:5:1849:C:H41	1.68	0.59
85:5:2201:G:H2'	85:5:2202:C:C6	2.37	0.59
85:5:313:A:C5	85:5:314:U:C5	2.91	0.59
85:5:2211:U:O4	92:5:3465:OHX:N4	2.35	0.59
92:5:3555:OHX:N1	92:5:3703:OHX:N2	2.50	0.59
85:5:603:A:C5	85:5:604:G:H1'	2.37	0.59
80:6:493:U:H2'	80:6:494:U:H5''	1.84	0.59
12:C0:50:THR:HG22	12:C0:55:VAL:HG22	2.25	0.59
22:D0:33:GLN:N	22:D0:33:GLN:OE1	2.36	0.59
44:L7:147:LEU:HD22	44:L7:205:PHE:CD1	3.43	0.59
52:M6:49:ARG:O	52:M6:53:LYS:N	2.91	0.59
65:N9:23:LYS:HD2	65:N9:24:PRO:HD3	1.84	0.59
68:O2:19:ARG:HG2	68:O2:20:HIS:H	1.66	0.59
1:2:2:A:O2'	4:S2:198:THR:O	2.19	0.59
1:2:1665:U:H5'	8:S6:65:GLN:HE22	1.68	0.59
36:1:1462:A:C5	36:1:1463:U:C5	2.90	0.59
36:1:23:A:H2'	36:1:24:G:H8	1.66	0.59
36:1:2830:G:H1	36:1:2858:U:H3	1.48	0.59
36:1:22:G:H1'	38:4:104:A:N3	2.17	0.59
85:5:1234:G:P	85:5:1235:U:H5''	2.43	0.59
85:5:3396:U:O2	92:5:3686:OHX:N6	2.35	0.59
85:5:597:G:H2'	85:5:598:A:H8	1.68	0.59
38:8:81:U:O2'	38:8:82:U:H5''	2.02	0.59
18:C6:11:GLY:H	18:C6:84:ALA:HB2	2.80	0.59
20:C8:134:ARG:O	20:C8:136:GLN:N	3.72	0.59
41:L4:148:ILE:HA	41:L4:149:PRO:C	2.34	0.59
42:L5:13:SER:O	37:7:67:G:O2'	301.65	0.59
48:M1:15:GLU:HB3	48:M1:130:VAL:HG22	4.98	0.59
48:M1:50:ALA:HB2	48:M1:65:ILE:HD12	1.85	0.59
56:N0:155:ARG:HD3	56:N0:172:TYR:CD1	2.38	0.59
59:N3:86:ARG:HG2	59:N3:86:ARG:HH11	2.50	0.59
45:L8:144:GLU:OE1	72:O6:36:ARG:NH2	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Q2:61:LYS:NZ	78:Q2:61:LYS:CB	2.61	0.59
78:Q2:74:CYS:SG	78:Q2:77:CYS:SG	3.10	0.59
34:SR:115:ILE:HG13	34:SR:122:ILE:HG12	2.54	0.59
36:1:1095:U:H4'	36:1:1096:U:H5'	1.85	0.59
36:1:1608:C:H2'	36:1:1609:C:H6	1.66	0.59
36:1:1686:U:O2	36:1:1688:U:H1'	2.03	0.59
36:1:1714:A:C2	36:1:1728:G:N1	2.71	0.59
36:1:3188:G:H2'	36:1:3189:G:H8	1.68	0.59
92:1:3600:OHX:N1	92:1:3648:OHX:N2	2.50	0.59
36:1:439:C:C5	36:1:440:A:C5	2.90	0.59
36:1:591:G:C2	43:L6:18:LEU:HD13	2.37	0.59
1:2:1024:G:H2'	1:2:1025:G:C8	2.38	0.59
38:4:126:A:O2'	38:4:128:U:OP1	2.21	0.59
85:5:126:U:H2'	85:5:127:G:O4'	2.03	0.59
85:5:3024:A:N6	85:5:3031:G:O2'	2.29	0.59
85:5:3204:C:H2'	85:5:3205:G:C8	2.38	0.59
80:6:1516:A:O2'	80:6:1517:U:H5'	2.02	0.59
80:6:1762:A:H1'	80:6:1783:C:H5'	1.84	0.59
38:8:44:A:H2'	38:8:45:C:C6	2.37	0.59
20:C8:125:ILE:HD11	35:SM:57:ASN:HB3	1.85	0.59
26:D4:104:SER:HB3	26:D4:107:GLN:CG	2.33	0.59
7:S5:57:SER:HA	30:D8:53:ILE:HD12	1.84	0.59
31:D9:12:ARG:HG3	31:D9:18:SER:HA	1.82	0.59
68:O2:14:THR:O	92:5:3588:OHX:N5	183.11	0.59
69:O3:49:ILE:HD11	69:O3:71:VAL:HG23	1.85	0.59
72:O6:58:ILE:O	72:O6:61:ILE:N	2.34	0.59
73:O7:34:CYS:HB3	73:O7:38:GLY:H	1.67	0.59
74:O8:5:ILE:HG12	74:O8:10:GLN:OE1	2.02	0.59
2:S0:38:PHE:HB2	2:S0:49:ASN:ND2	2.17	0.59
3:S1:183:GLN:O	3:S1:187:LYS:N	2.84	0.59
3:S1:58:SER:O	3:S1:62:LYS:HD3	3.87	0.59
3:S1:83:LYS:O	3:S1:84:ILE:HD13	2.32	0.59
36:1:1445:U:H5''	36:1:1446:A:OP2	2.02	0.59
36:1:1477:A:OP1	36:1:3075:G:O2'	2.18	0.59
36:1:2217:U:H2'	36:1:2218:G:C8	2.36	0.59
36:1:265:A:H5''	36:1:266:A:OP2	2.02	0.59
92:2:1972:OHX:N6	92:2:1986:OHX:N2	2.51	0.59
1:2:201:G:H2'	1:2:202:A:C8	2.38	0.59
1:2:649:U:O2'	1:2:650:U:O5'	2.18	0.59
85:5:1001:G:H21	85:5:1041:U:P	2.25	0.59
85:5:2876:C:H2'	85:5:2877:G:O4'	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:2957:G:H8	85:5:2957:G:H5'	1.67	0.59
85:5:3153:U:H4'	85:5:3154:C:H5'	1.83	0.59
85:5:1201:C:O2	92:5:3533:OHX:N5	2.36	0.59
85:5:1696:A:OP2	92:5:3688:OHX:N6	2.35	0.59
85:5:576:C:H2'	85:5:577:C:H6	1.66	0.59
28:D6:87:ARG:NH1	80:6:1797:A:N7	342.78	0.59
16:C4:43:THR:OG1	80:6:900:A:OP1	278.81	0.59
15:C3:148:ALA:O	92:C3:201:OHX:N4	5.40	0.59
24:D2:96:ALA:HB1	24:D2:98:GLN:HG2	1.85	0.59
28:D6:44:ILE:HD12	28:D6:45:VAL:HG22	1.85	0.59
33:E1:90:LYS:HB2	33:E1:93:HIS:CE1	11.16	0.59
40:L3:19:ARG:HG3	40:L3:273:HIS:CE1	2.37	0.59
41:L4:327:LEU:HA	44:L7:166:ASN:ND2	2.18	0.59
45:L8:156:ASP:O	45:L8:157:VAL:HB	2.02	0.59
45:L8:27:THR:HG22	63:N7:53:VAL:HG22	8.13	0.59
45:L8:71:VAL:O	45:L8:233:TRP:HB3	3.31	0.59
47:M0:48:LEU:HD11	47:M0:145:LYS:HG3	1.85	0.59
48:M1:116:TYR:HE1	48:M1:118:PRO:HB3	2.45	0.59
48:M1:80:LEU:HD22	48:M1:84:LEU:HG	1.85	0.59
51:M5:140:LYS:O	51:M5:144:ARG:N	2.90	0.59
52:M6:88:VAL:O	52:M6:90:HIS:N	2.99	0.59
53:M7:95:LEU:O	53:M7:96:GLN:C	2.39	0.59
58:N2:58:GLU:HB2	58:N2:63:VAL:HG13	4.10	0.59
71:O5:6:ALA:O	71:O5:9:LEU:N	2.35	0.59
2:S0:103:THR:O	2:S0:106:SER:OG	2.17	0.59
6:S4:126:VAL:HG13	6:S4:158:ASP:O	2.91	0.59
8:S6:160:ARG:HH12	80:6:68:A:H5'	346.24	0.59
9:S7:14:THR:N	9:S7:17:GLU:OE1	3.78	0.59
9:S7:28:GLU:CD	9:S7:35:LYS:HG2	3.92	0.59
36:1:1009:A:H2'	36:1:1010:G:O4'	2.03	0.59
36:1:1132:C:H2'	36:1:1133:A:H8	1.67	0.59
36:1:1853:U:OP2	92:1:3566:OHX:N3	2.36	0.59
92:1:3612:OHX:N6	92:1:3684:OHX:N3	2.51	0.59
36:1:744:A:H4'	54:M8:142:GLY:O	2.03	0.59
1:2:647:G:N2	1:2:670:G:H22	2.00	0.59
1:2:910:C:H1'	16:C4:125:SER:HB2	1.85	0.59
85:5:2373:A:N7	85:5:2867:C:H1'	2.18	0.59
85:5:923:C:H42	85:5:926:A:H1'	1.68	0.59
37:7:112:G:H2'	37:7:113:C:C6	2.37	0.59
1:2:1512:C:O2'	21:C9:12:GLN:OE1	2.21	0.59
24:D2:7:LEU:HD22	24:D2:7:LEU:O	3.31	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2554:A:N6	39:L2:84:THR:HB	2.18	0.59
36:1:2395:G:H5''	40:L3:255:TRP:CD1	2.37	0.59
44:L7:229:PHE:HD1	44:L7:230:GLY:N	2.57	0.59
45:L8:109:LEU:HA	45:L8:112:GLU:HG2	1.85	0.59
46:L9:12:VAL:HB	46:L9:51:GLN:HA	1.83	0.59
47:M0:54:SER:HB2	47:M0:135:ILE:HD11	2.48	0.59
48:M1:13:LYS:O	48:M1:131:MET:HE3	2.01	0.59
53:M7:67:ILE:HD11	85:5:1447:G:H3'	164.60	0.59
66:O0:101:LEU:HD22	66:O0:101:LEU:H	2.32	0.59
36:1:1438:U:H6	36:1:1438:U:O5'	1.85	0.59
36:1:3030:G:N7	36:1:3031:G:N7	2.51	0.59
36:1:3329:U:C4	36:1:3330:A:N7	2.71	0.59
36:1:3340:G:H2'	36:1:3342:A:OP2	2.03	0.59
92:1:3500:OHX:N3	92:1:3605:OHX:N1	2.50	0.59
36:1:817:A:OP2	36:1:817:A:H4'	2.03	0.59
1:2:1632:G:N7	92:2:1928:OHX:N1	2.51	0.59
38:4:121:U:C2	38:4:122:U:C5	2.91	0.59
85:5:1110:U:H2'	85:5:1111:U:C6	2.38	0.59
85:5:1195:A:C2	85:5:1309:U:N3	2.71	0.59
85:5:131:C:H2'	85:5:132:C:H6	1.67	0.59
85:5:2781:U:C4	85:5:2782:U:C4	2.91	0.59
85:5:2948:C:H6	85:5:2948:C:O5'	1.84	0.59
17:C5:102:PHE:HZ	80:6:1241:G:H5''	385.27	0.59
80:6:1293:U:H3	80:6:1322:A:N6	1.93	0.59
80:6:1603:U:H2'	80:6:1604:U:H6	1.68	0.59
80:6:355:G:OP2	92:6:1921:OHX:N5	2.36	0.59
80:6:386:G:C6	80:6:387:A:N6	2.71	0.59
37:7:58:C:H2'	37:7:59:U:C6	2.36	0.59
73:O7:63:ARG:NH2	38:8:58:G:O6	79.24	0.59
13:C1:124:THR:HB	13:C1:141:LYS:HB3	1.85	0.59
1:2:970:G:N1	39:L2:249:SER:HB2	2.18	0.59
40:L3:218:ILE:CG1	40:L3:276:THR:HG23	2.62	0.59
48:M1:90:GLN:HA	48:M1:170:ASP:O	3.13	0.59
51:M5:143:ARG:NH2	71:O5:90:ARG:O	2.64	0.59
51:M5:80:THR:HG21	51:M5:87:GLN:HA	1.85	0.59
38:4:11:C:H1'	53:M7:6:ALA:HB2	1.85	0.59
58:N2:16:THR:HG22	58:N2:64:THR:OG1	2.76	0.59
59:N3:125:LEU:HB3	59:N3:126:TRP:CD1	2.38	0.59
68:O2:2:ALA:O	68:O2:90:LYS:HG2	2.02	0.59
4:S2:89:GLN:HG3	4:S2:93:GLY:O	3.83	0.59
5:S3:175:VAL:CG1	5:S3:182:LEU:HB2	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1355:A:H4'	36:1:1356:U:O5'	2.02	0.59
36:1:1460:A:H2'	36:1:1461:A:C8	2.37	0.59
36:1:1680:G:H2'	36:1:1681:U:C6	2.38	0.59
36:1:2419:A:C2	36:1:2420:C:N3	2.70	0.59
36:1:980:A:H2'	36:1:981:U:C1'	2.32	0.59
1:2:1720:G:C2	1:2:1721:U:C2	2.90	0.59
1:2:1780:A:N7	28:D6:87:ARG:NH1	2.49	0.59
92:2:1970:OHX:N2	92:2:1985:OHX:N3	2.51	0.59
1:2:538:A:H8	1:2:543:C:N4	2.00	0.59
1:2:591:A:H2'	1:2:592:A:H8	1.67	0.59
85:5:1192:C:N4	85:5:1302:A:P	2.76	0.59
80:6:1111:G:O6	80:6:1112:G:C2	2.56	0.59
80:6:914:G:H8	80:6:914:G:OP2	1.84	0.59
37:7:62:U:O4	37:7:63:A:C6	2.56	0.59
13:C1:17:PRO:HB2	13:C1:18:HIS:CD2	5.39	0.59
17:C5:121:ILE:HG22	17:C5:123:TYR:H	1.67	0.59
23:D1:71:ARG:HG3	23:D1:83:TRP:CE2	3.33	0.59
28:D6:37:LYS:HA	28:D6:71:LEU:O	2.03	0.59
40:L3:41:VAL:CA	40:L3:185:GLY:HA3	2.31	0.59
40:L3:358:TRP:CZ2	40:L3:360:ASP:HA	2.65	0.59
41:L4:99:MET:HE3	41:L4:102:PRO:HA	2.01	0.59
42:L5:85:ARG:NH2	42:L5:250:ASP:OD1	2.35	0.59
44:L7:223:PHE:HA	44:L7:227:GLY:O	2.03	0.59
46:L9:2:LYS:HB3	46:L9:59:ASN:OD1	2.02	0.59
47:M0:36:LEU:HD12	47:M0:36:LEU:N	2.66	0.59
48:M1:16:LYS:HB3	48:M1:72:ARG:HG2	1.85	0.59
54:M8:73:GLN:HB2	54:M8:76:ALA:HB3	1.84	0.59
63:N7:46:ILE:HD12	63:N7:69:LYS:O	2.02	0.59
49:M3:64:LYS:HE3	64:N8:69:TRP:CD1	2.38	0.59
65:N9:14:ARG:HH12	65:N9:18:ARG:HH11	2.83	0.59
68:O2:69:SER:HB2	68:O2:71:HIS:HD2	6.10	0.59
68:O2:96:ILE:O	68:O2:121:ASN:ND2	2.95	0.59
9:S7:164:TYR:CE1	9:S7:165:LYS:HG3	2.86	0.59
10:S8:117:TYR:CD1	10:S8:150:ALA:HB2	2.38	0.59
34:SR:134:TRP:HB3	34:SR:138:GLY:HA2	3.79	0.59
36:1:2775:U:H2'	36:1:2776:C:C6	2.37	0.58
36:1:634:C:H4'	68:O2:47:ARG:NH1	2.18	0.58
1:2:1644:U:H2'	1:2:1645:G:C8	2.37	0.58
1:2:989:C:OP1	92:2:1913:OHX:N5	2.35	0.58
1:2:104:A:OP2	1:2:308:C:N4	2.36	0.58
1:2:565:C:O2	92:2:1917:OHX:N5	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:1672:U:O2'	85:5:1673:G:H5'	2.02	0.58
85:5:2404:A:C5	95:5:3401:PHE:HZ	2.21	0.58
85:5:3089:C:H2'	85:5:3090:U:O4'	2.03	0.58
85:5:3200:G:O6	92:5:3641:OHX:N5	2.36	0.58
80:6:432:G:H2'	80:6:433:C:H6	1.67	0.58
42:L5:260:PHE:CE2	37:7:121:U:H5'	319.67	0.58
38:8:141:C:H2'	38:8:142:C:C6	2.38	0.58
16:C4:91:THR:HG23	16:C4:92:LYS:H	2.99	0.58
19:C7:41:ILE:HD13	19:C7:47:ARG:HA	1.83	0.58
23:D1:38:LYS:HZ2	23:D1:49:GLU:HB3	4.25	0.58
36:1:608:A:OP1	41:L4:315:LYS:NZ	2.35	0.58
42:L5:205:SER:OG	42:L5:206:GLN:N	2.38	0.58
45:L8:24:ASN:N	45:L8:25:PRO:HD2	2.17	0.58
51:M5:140:LYS:O	51:M5:143:ARG:N	2.96	0.58
54:M8:83:VAL:O	54:M8:83:VAL:HG12	2.22	0.58
61:N5:49:LYS:O	61:N5:50:ALA:HB3	2.03	0.58
63:N7:88:ASP:OD1	63:N7:89:VAL:N	2.35	0.58
67:O1:72:ARG:NH2	67:O1:104:LEU:HB3	3.70	0.58
70:O4:82:ALA:O	70:O4:85:VAL:HG22	4.87	0.58
72:O6:58:ILE:HG12	72:O6:59:ASP:N	2.17	0.58
72:O6:57:LEU:O	72:O6:61:ILE:HG13	2.03	0.58
79:Q3:59:CYS:SG	79:Q3:60:CYS:N	2.75	0.58
4:S2:176:SER:HB2	4:S2:195:ASP:HB3	2.49	0.58
10:S8:11:ARG:HD3	10:S8:15:GLY:O	2.03	0.58
36:1:1581:C:C2	36:1:1582:C:H5'	2.38	0.58
36:1:1822:C:H2'	36:1:1823:A:C8	2.38	0.58
36:1:3217:C:C4	53:M7:182:ILE:HG23	2.39	0.58
1:2:1310:C:O2'	5:S3:159:HIS:ND1	2.24	0.58
1:2:237:C:H5''	1:2:238:U:H5'	1.83	0.58
1:2:799:G:C2	1:2:800:A:C8	2.91	0.58
1:2:868:G:N2	16:C4:123:SER:HB2	2.18	0.58
85:5:1366:A:C2	85:5:1367:G:C4	2.91	0.58
74:O8:42:LYS:NZ	85:5:1750:A:OP2	141.74	0.58
85:5:2576:G:H2'	85:5:2577:C:H6	1.67	0.58
85:5:629:U:H2'	85:5:630:A:C8	2.38	0.58
51:M5:203:ARG:NH1	85:5:665:A:OP1	121.67	0.58
80:6:1767:G:OP1	80:6:1770:U:H4'	2.03	0.58
80:6:217:A:O2'	80:6:218:A:O5'	2.20	0.58
10:S8:5:ARG:NH2	80:6:334:G:O6	302.72	0.58
15:C3:5:HIS:CE1	15:C3:121:ARG:HG3	2.38	0.58
19:C7:7:LYS:N	80:6:1316:G:OP1	409.54	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S3:7:LYS:NZ	22:D0:115:GLU:OE2	2.32	0.58
45:L8:239:GLY:O	45:L8:241:LYS:N	2.36	0.58
47:M0:12:GLN:HA	47:M0:59:GLN:OE1	2.39	0.58
47:M0:76:MET:CE	47:M0:148:VAL:HA	2.50	0.58
54:M8:151:ARG:NH1	85:5:781:G:OP1	159.67	0.58
55:M9:104:ARG:HH12	55:M9:135:LYS:HD3	1.69	0.58
56:N0:78:TRP:O	56:N0:124:LEU:HB2	2.75	0.58
64:N8:125:VAL:HB	64:N8:145:VAL:HG22	2.79	0.58
4:S2:140:ARG:NH2	4:S2:229:LEU:HD13	2.17	0.58
9:S7:131:PHE:O	9:S7:133:THR:N	2.36	0.58
10:S8:42:ARG:HB3	10:S8:59:ARG:HB2	2.80	0.58
36:1:2535:A:H61	36:1:2544:U:H3	1.51	0.58
36:1:2984:C:H2'	36:1:2985:C:H6	1.68	0.58
36:1:3174:A:C6	36:1:3175:U:C4	2.91	0.58
36:1:735:A:O5'	36:1:735:A:H8	1.86	0.58
36:1:739:G:C2	36:1:740:G:C8	2.92	0.58
37:3:9:C:OP2	37:3:10:C:N4	2.35	0.58
85:5:1438:U:C6	85:5:1439:U:H5	2.21	0.58
85:5:2211:U:H5	85:5:2234:G:N1	2.00	0.58
85:5:2661:G:H2'	85:5:2662:G:H8	1.67	0.58
85:5:645:A:C6	85:5:649:A:C8	2.91	0.58
85:5:754:G:H2'	85:5:755:A:H8	1.69	0.58
80:6:28:A:C2	80:6:29:U:C2	2.91	0.58
16:C4:84:ARG:HB3	16:C4:118:VAL:HG23	2.97	0.58
27:D5:61:SER:H	27:D5:64:VAL:HB	1.76	0.58
39:L2:3:ARG:HB2	39:L2:207:VAL:HG22	2.08	0.58
41:L4:11:LEU:HD23	41:L4:11:LEU:N	2.38	0.58
46:L9:37:ASN:OD1	46:L9:39:LYS:HG3	2.02	0.58
47:M0:99:ILE:HG13	47:M0:123:HIS:HB2	4.88	0.58
2:S0:60:ALA:HA	2:S0:144:ILE:HD13	1.86	0.58
3:S1:214:LYS:HD3	3:S1:216:LYS:HG3	8.72	0.58
3:S1:49:ASN:O	3:S1:57:ALA:HB2	2.03	0.58
4:S2:143:TYR:O	24:D2:98:GLN:NE2	2.35	0.58
8:S6:186:ARG:O	8:S6:190:GLN:HG2	2.03	0.58
9:S7:126:LEU:HD22	9:S7:173:TYR:CE2	3.06	0.58
36:1:1909:A:H2'	36:1:1910:A:C8	2.37	0.58
36:1:2656:A:C4	36:1:2658:G:N7	2.72	0.58
36:1:2661:G:O2'	36:1:2662:G:H5'	2.02	0.58
36:1:3259:U:H5'	36:1:3259:U:C6	2.31	0.58
92:1:3616:OHX:N6	92:1:3689:OHX:N5	2.50	0.58
36:1:374:A:H61	36:1:397:A:H61	1.50	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:681:U:O4	41:L4:118:LYS:NZ	2.37	0.58
1:2:1190:C:OP2	92:2:1940:OHX:N4	2.36	0.58
1:2:622:A:H4'	1:2:623:A:OP1	2.02	0.58
85:5:1661:G:N2	85:5:1789:G:C4	2.72	0.58
85:5:2770:G:N7	92:5:3655:OHX:N5	2.50	0.58
85:5:3280:U:O2'	85:5:3281:U:H5''	2.04	0.58
80:6:1525:A:N3	80:6:1589:C:O2'	2.32	0.58
80:6:52:U:H2'	80:6:53:G:C8	2.38	0.58
80:6:844:A:H2'	80:6:845:G:O4'	2.03	0.58
38:8:16:G:O6	92:8:202:OHX:N6	2.36	0.58
17:C5:50:THR:CB	17:C5:50:THR:N	2.62	0.58
20:C8:48:LYS:HD3	21:C9:35:ASP:OD2	2.02	0.58
24:D2:37:PHE:CD2	24:D2:103:ILE:HD12	2.37	0.58
26:D4:104:SER:O	26:D4:107:GLN:N	3.29	0.58
41:L4:143:GLU:HB3	41:L4:144:LYS:NZ	9.06	0.58
42:L5:131:LEU:HD22	42:L5:131:LEU:H	1.68	0.58
42:L5:146:LEU:HB3	85:5:2746:A:H2	258.74	0.58
49:M3:79:GLU:OE2	49:M3:112:ASN:ND2	2.36	0.58
49:M3:157:ARG:HH12	64:N8:146:GLU:CD	3.08	0.58
53:M7:31:GLU:HG2	53:M7:60:PHE:HA	4.13	0.58
55:M9:6:THR:HG23	55:M9:9:ARG:HH11	5.18	0.58
59:N3:28:ASN:OD1	59:N3:112:SER:N	2.30	0.58
67:O1:36:ILE:HD12	67:O1:59:ILE:HD11	2.80	0.58
79:Q3:73:THR:HG22	79:Q3:76:ALA:N	2.12	0.58
2:S0:88:LYS:HB3	2:S0:202:TYR:CZ	2.92	0.58
3:S1:70:LEU:HD11	3:S1:79:HIS:HB3	1.85	0.58
1:2:1497:U:C5	5:S3:4:LEU:HD12	2.39	0.58
36:1:1852:G:OP2	92:1:3513:OHX:N4	2.36	0.58
36:1:3003:G:H1'	36:1:3146:G:N2	2.18	0.58
85:5:1410:U:OP1	92:5:3528:OHX:N5	2.36	0.58
85:5:1701:C:H2'	85:5:1702:U:O4'	2.04	0.58
85:5:2683:U:O2	85:5:2683:U:H2'	2.04	0.58
85:5:2845:A:H2'	85:5:2846:U:H5'	1.85	0.58
85:5:297:G:N2	85:5:297:G:OP2	2.34	0.58
85:5:3245:A:H5'	85:5:3246:G:H5''	1.85	0.58
85:5:385:A:H2'	85:5:386:A:C8	2.37	0.58
85:5:668:G:C5	85:5:795:G:C2	2.91	0.58
80:6:6:G:N1	80:6:7:G:C5	2.71	0.58
85:5:407:A:C2	38:8:17:A:H1'	2.39	0.58
19:C7:104:ASN:O	19:C7:106:THR:N	3.49	0.58
20:C8:7:GLU:OE1	20:C8:10:SER:OG	4.20	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:D3:131:SER:O	25:D3:135:LEU:HG	2.04	0.58
26:D4:80:ALA:O	26:D4:83:LYS:N	2.94	0.58
42:L5:156:GLY:HA2	42:L5:181:PRO:HD3	1.85	0.58
43:L6:96:VAL:HG12	43:L6:98:VAL:HB	2.82	0.58
44:L7:121:LYS:HD2	44:L7:125:GLU:HG2	1.86	0.58
62:N6:37:LYS:CD	62:N6:37:LYS:H	2.56	0.58
76:Q0:96:CYS:HA	76:Q0:121:LEU:HD22	3.37	0.58
3:S1:134:VAL:HG12	3:S1:218:LEU:HB2	5.63	0.58
3:S1:62:LYS:O	3:S1:88:VAL:HB	2.55	0.58
4:S2:238:SER:OG	4:S2:238:SER:O	3.51	0.58
6:S4:187:ARG:HH11	6:S4:245:LYS:NZ	2.02	0.58
11:S9:93:LEU:HA	11:S9:96:VAL:HG13	1.84	0.58
36:1:1078:U:O4	92:1:3502:OHX:N4	2.36	0.58
36:1:2111:G:H5''	60:N4:48:ARG:HH21	1.68	0.58
1:2:1166:A:N6	1:2:1167:A:N1	2.52	0.58
1:2:1471:G:H5'	1:2:1472:U:P	2.44	0.58
1:2:1536:G:O6	17:C5:40:ARG:NH2	2.36	0.58
37:3:35:C:N4	37:3:36:C:N3	2.51	0.58
37:3:26:C:H2'	37:3:57:G:H22	1.67	0.58
37:3:81:U:H6	37:3:81:U:O5'	1.87	0.58
85:5:1684:U:H2'	85:5:1685:C:H6	1.69	0.58
85:5:3064:U:O4	92:5:3604:OHX:N5	2.35	0.58
85:5:345:G:OP1	85:5:1429:G:N2	2.29	0.58
85:5:19:U:O4	92:5:3606:OHX:N6	2.36	0.58
73:O7:35:SER:OG	85:5:361:A:H5'	125.86	0.58
85:5:644:G:H2'	85:5:2372:A:N7	2.19	0.58
80:6:103:A:C5	80:6:360:A:C2	2.92	0.58
80:6:1638:G:N2	80:6:1639:C:H1'	2.17	0.58
15:C3:101:HIS:HA	15:C3:104:ARG:HH11	2.78	0.58
20:C8:52:VAL:HG13	20:C8:61:LEU:HD21	3.09	0.58
23:D1:60:ARG:HA	23:D1:65:SER:HB2	1.86	0.58
42:L5:109:THR:O	42:L5:112:LYS:N	2.37	0.58
36:1:520:U:OP2	44:L7:70:LYS:NZ	2.37	0.58
49:M3:105:ASN:HD21	72:O6:17:VAL:HG21	2.65	0.58
51:M5:12:ARG:O	51:M5:13:LYS:HD3	2.03	0.58
51:M5:172:ARG:NH1	85:5:30:G:P	107.38	0.58
52:M6:3:VAL:HG22	52:M6:3:VAL:O	2.04	0.58
56:N0:91:TYR:O	56:N0:137:ARG:NH1	2.36	0.58
58:N2:32:SER:O	58:N2:35:LYS:HB3	2.04	0.58
64:N8:12:ARG:NH2	85:5:661:G:OP1	149.88	0.58
67:O1:13:THR:CG2	67:O1:72:ARG:HH21	5.77	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:O2:9:ILE:HG23	68:O2:63:THR:HB	3.02	0.58
61:N5:45:LYS:HG2	71:O5:75:TYR:HD2	2.59	0.58
78:Q2:17:CYS:HG	78:Q2:77:CYS:CB	2.10	0.58
3:S1:36:SER:C	3:S1:38:PHE:H	2.39	0.58
10:S8:39:GLY:O	10:S8:59:ARG:HB3	2.04	0.58
11:S9:91:LYS:O	11:S9:92:LYS:HG2	2.02	0.58
36:1:2190:U:C4	36:1:2191:U:C4	2.92	0.58
36:1:3326:G:H2'	36:1:3327:G:H8	1.67	0.58
36:1:3328:G:OP1	40:L3:385:LYS:NZ	2.29	0.58
36:1:2718:U:OP2	92:1:3518:OHX:N3	2.36	0.58
36:1:670:C:P	54:M8:147:ARG:HH21	2.25	0.58
1:2:1148:G:O6	1:2:1149:A:N6	2.37	0.58
1:2:1433:U:H6	1:2:1433:U:O5'	1.87	0.58
1:2:685:G:C8	92:2:2009:OHX:N2	2.72	0.58
1:2:219:A:H5'	1:2:814:U:O2'	2.04	0.58
38:4:79:A:H2'	38:4:80:A:H1'	1.84	0.58
85:5:247:C:N3	85:5:248:U:H1'	2.19	0.58
92:5:3576:OHX:N3	92:5:3634:OHX:N4	2.51	0.58
85:5:437:G:N7	92:5:3747:OHX:N4	2.51	0.58
10:S8:10:LYS:HD3	80:6:338:C:H5"	288.60	0.58
17:C5:68:PRO:HG2	17:C5:71:GLU:CB	2.33	0.58
24:D2:73:GLY:HA3	24:D2:128:PHE:CZ	2.39	0.58
39:L2:132:ASN:ND2	85:5:2178:A:H5"	216.20	0.58
39:L2:238:ILE:HG22	39:L2:239:ALA:N	2.74	0.58
41:L4:204:GLY:O	41:L4:246:ARG:NH1	2.43	0.58
42:L5:163:LEU:O	42:L5:166:ALA:N	3.35	0.58
45:L8:186:LEU:O	45:L8:189:LEU:HB3	4.83	0.58
50:M4:47:ASP:OD2	50:M4:48:GLY:N	2.37	0.58
51:M5:68:ARG:HA	51:M5:98:LEU:HD21	3.45	0.58
57:N1:12:ARG:HD2	57:N1:13:TYR:CZ	3.05	0.58
60:N4:13:ILE:HG22	60:N4:13:ILE:O	2.03	0.58
62:N6:126:LEU:HB3	62:N6:127:GLU:OE1	9.34	0.58
36:1:200:C:OP1	62:N6:60:ARG:NH1	2.37	0.58
36:1:2767:U:OP1	78:Q2:34:SER:HB3	2.04	0.58
4:S2:215:PHE:O	4:S2:217:ALA:N	3.06	0.58
5:S3:176:LEU:HD12	5:S3:176:LEU:H	1.69	0.58
6:S4:130:GLN:HB2	6:S4:138:TYR:CZ	2.39	0.58
36:1:1017:C:O2'	36:1:1018:G:OP2	2.22	0.58
36:1:2315:G:OP2	92:1:3534:OHX:N3	2.37	0.58
36:1:1580:A:H5'	36:1:2522:G:C5	2.39	0.58
36:1:288:C:H2'	36:1:289:A:C8	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3195:U:O2'	36:1:3196:U:H5'	2.03	0.58
36:1:709:A:OP1	54:M8:179:ARG:NH2	2.37	0.58
36:1:818:C:OP2	92:1:3728:OHX:N4	2.37	0.58
36:1:852:U:H2'	36:1:853:G:C8	2.39	0.58
1:2:1277:G:O6	92:2:1955:OHX:N4	2.37	0.58
1:2:365:G:N7	92:2:1982:OHX:N5	2.52	0.58
38:4:49:G:OP1	38:4:49:G:H8	1.86	0.58
57:N1:116:ARG:NH2	85:5:1097:G:N7	245.93	0.58
51:M5:4:TYR:OH	85:5:148:G:OP2	110.14	0.58
85:5:2823:G:O6	92:5:3456:OHX:N6	2.37	0.58
85:5:3274:A:H3'	85:5:3275:U:C5'	2.31	0.58
85:5:94:G:H2'	85:5:95:A:C8	2.39	0.58
80:6:1160:A:H2'	80:6:1161:C:C6	2.39	0.58
80:6:1587:A:O5'	80:6:1587:A:H8	1.86	0.58
92:6:1914:OHX:N5	92:6:1998:OHX:N6	2.51	0.58
38:8:49:G:C6	38:8:77:A:C2	2.92	0.58
25:D3:141:GLU:CD	25:D3:144:ARG:HH12	14.80	0.58
40:L3:347:SER:O	40:L3:348:ARG:HB2	2.03	0.58
45:L8:158:ASP:HB3	45:L8:159:PRO:HD3	1.85	0.58
49:M3:162:ASN:OD1	49:M3:163:GLY:N	2.36	0.58
55:M9:20:ARG:NH2	85:5:1874:A:H62	148.81	0.58
55:M9:6:THR:O	55:M9:9:ARG:N	3.41	0.58
70:O4:52:GLN:HG2	85:5:1639:C:H5'	196.20	0.58
38:4:95:G:OP2	73:O7:72:ARG:NH1	2.31	0.58
9:S7:28:GLU:O	9:S7:30:SER:N	2.32	0.58
34:SR:132:LYS:NZ	34:SR:143:THR:OG1	3.46	0.58
34:SR:22:SER:OG	34:SR:70:ASP:HA	2.98	0.58
36:1:1438:U:H2'	36:1:1439:U:C6	2.39	0.58
36:1:1856:C:H2'	36:1:1857:C:C6	2.39	0.58
1:2:1442:C:N4	20:C8:139:LYS:HE3	2.18	0.58
1:2:1520:C:C4	1:2:1555:G:N1	2.69	0.58
1:2:169:A:OP1	8:S6:137:ARG:HG3	2.03	0.58
1:2:182:A:H2'	1:2:183:U:C6	2.39	0.58
1:2:450:U:H2'	1:2:451:A:C8	2.38	0.58
1:2:472:U:H5''	11:S9:11:THR:HG23	1.84	0.58
1:2:741:U:H5'	1:2:742:U:OP2	2.02	0.58
1:2:81:G:C6	1:2:82:U:N3	2.72	0.58
37:3:72:A:C2	37:3:74:C:C6	2.92	0.58
85:5:1235:U:H4'	85:5:1236:G:OP1	2.04	0.58
85:5:2962:U:C4	85:5:2963:C:C5	2.91	0.58
85:5:501:A:H2'	85:5:502:U:C6	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:545:A:N6	80:6:594:A:C8	2.72	0.58
80:6:836:U:H2'	80:6:837:G:C8	2.39	0.58
38:8:43:A:C2	38:8:44:A:C8	2.92	0.58
38:8:81:U:H1'	38:8:82:U:C6	2.39	0.58
13:C1:94:ILE:O	13:C1:94:ILE:HG22	2.65	0.58
1:2:1181:G:H4'	22:D0:72:ASN:O	2.04	0.58
25:D3:44:GLY:H	25:D3:78:LYS:NZ	2.01	0.58
39:L2:204:MET:HB2	39:L2:208:ASP:HB2	1.86	0.58
42:L5:110:LEU:HD22	42:L5:171:LEU:HD23	1.86	0.58
43:L6:76:LEU:HD13	43:L6:101:PHE:CE1	3.44	0.58
46:L9:91:ARG:NH2	46:L9:91:ARG:HG3	2.19	0.58
47:M0:10:ARG:HG2	47:M0:11:TYR:CD1	2.39	0.58
49:M3:59:ARG:HG2	85:5:73:C:O2'	93.88	0.58
65:N9:14:ARG:NH1	65:N9:18:ARG:HH11	3.37	0.58
65:N9:44:LYS:HD2	65:N9:45:HIS:CD2	3.33	0.58
69:O3:93:THR:O	69:O3:96:ALA:HB3	2.55	0.58
78:Q2:83:LEU:HD23	78:Q2:84:THR:N	2.78	0.58
3:S1:134:VAL:O	3:S1:218:LEU:HB2	5.28	0.58
5:S3:158:ILE:H	5:S3:158:ILE:HD13	1.85	0.58
5:S3:48:VAL:HB	5:S3:86:LEU:HD12	1.84	0.58
35:SM:46:LYS:O	36:1:1018:G:H5''	2.04	0.58
36:1:2232:A:H2'	36:1:2233:A:C8	2.39	0.58
36:1:2538:U:O2'	36:1:2541:U:O4	2.19	0.58
92:1:3612:OHX:N4	92:1:3684:OHX:N1	2.52	0.58
1:2:1125:A:H2'	1:2:1126:A:C8	2.39	0.58
1:2:294:C:C2	1:2:295:A:C8	2.92	0.58
1:2:48:G:C6	1:2:49:C:C5	2.92	0.58
85:5:1447:G:N2	85:5:2356:A:OP2	2.37	0.58
85:5:1564:U:H2'	85:5:1565:G:C8	2.39	0.58
73:O7:75:LYS:HD3	85:5:181:U:O3'	49.48	0.58
85:5:3376:A:OP2	92:5:3438:OHX:N4	2.36	0.58
80:6:1727:G:H2'	80:6:1728:A:C8	2.39	0.58
1:2:842:A:C6	15:C3:73:ARG:HD3	2.39	0.58
23:D1:40:ASP:OD1	23:D1:41:GLU:N	2.37	0.58
42:L5:99:TYR:HE1	42:L5:103:LEU:HD22	1.68	0.58
53:M7:60:PHE:HB3	53:M7:64:ASN:HB3	1.86	0.58
61:N5:121:LYS:HD3	61:N5:123:TYR:CZ	2.98	0.58
63:N7:36:HIS:HD2	63:N7:74:VAL:HG11	2.80	0.58
36:1:1065:A:C4	65:N9:28:LYS:HG2	2.38	0.58
45:L8:230:LYS:NZ	72:O6:47:ILE:O	2.36	0.58
7:S5:121:ILE:HA	7:S5:199:ILE:HD11	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:S9:28:LEU:O	11:S9:28:LEU:HD22	2.04	0.58
36:1:172:G:N7	92:1:3526:OHX:N5	2.51	0.57
36:1:650:C:H6	36:1:650:C:O5'	1.87	0.57
1:2:1203:C:H42	1:2:1246:G:H1	1.52	0.57
1:2:1376:C:H42	1:2:1388:G:H1	1.50	0.57
1:2:75:U:H2'	1:2:76:A:O4'	2.03	0.57
35:SM:46:LYS:HA	85:5:1018:G:H4'	324.43	0.57
85:5:1438:U:H2'	85:5:1439:U:C6	2.35	0.57
85:5:1792:C:H5''	85:5:1793:C:OP1	2.03	0.57
85:5:182:U:H2'	85:5:183:G:H8	1.68	0.57
85:5:2203:U:H2'	85:5:2204:C:C6	2.38	0.57
85:5:227:G:N2	85:5:228:U:H1'	2.19	0.57
85:5:721:G:H1	85:5:749:C:H42	1.52	0.57
80:6:1280:C:O2	80:6:1428:G:N2	2.23	0.57
38:8:65:A:N6	38:8:66:A:C6	2.73	0.57
14:C2:30:VAL:HB	14:C2:132:GLU:HG3	1.85	0.57
15:C3:22:ALA:HB1	15:C3:23:PRO:HA	1.96	0.57
22:D0:51:VAL:HG13	22:D0:94:GLU:HB2	1.86	0.57
39:L2:149:ARG:HH22	39:L2:253:GLN:HA	4.71	0.57
40:L3:46:PHE:CE2	40:L3:205:VAL:HG22	2.39	0.57
42:L5:270:LYS:HG3	42:L5:273:ARG:HB2	5.26	0.57
44:L7:116:PHE:CZ	44:L7:144:ILE:HG23	2.39	0.57
51:M5:140:LYS:HD2	51:M5:144:ARG:HH21	1.68	0.57
54:M8:33:TYR:HA	54:M8:36:LEU:HB2	1.86	0.57
41:L4:290:ILE:HG23	54:M8:35:PHE:CE2	2.39	0.57
54:M8:50:LYS:O	54:M8:52:LEU:N	2.37	0.57
38:4:151:C:C4	61:N5:24:LEU:HD11	2.39	0.57
64:N8:123:VAL:O	64:N8:143:GLY:HA3	2.04	0.57
49:M3:161:ASP:OD2	64:N8:144:VAL:HG12	3.14	0.57
71:O5:101:THR:O	71:O5:105:ARG:N	2.37	0.57
2:S0:179:ARG:HD2	2:S0:183:ARG:HD2	1.85	0.57
2:S0:84:ARG:NE	19:C7:82:ASP:OD1	4.41	0.57
3:S1:130:SER:OG	3:S1:131:ASP:N	2.36	0.57
6:S4:18:TRP:HZ3	6:S4:29:PRO:HD2	3.94	0.57
9:S7:20:VAL:HG12	9:S7:24:PHE:HD2	2.34	0.57
9:S7:55:LYS:HD3	9:S7:89:HIS:CE1	4.41	0.57
10:S8:63:GLY:O	10:S8:65:PHE:HD2	3.01	0.57
36:1:1170:A:H2'	36:1:1171:G:O4'	2.04	0.57
36:1:2314:U:HO2'	36:1:2315:G:P	2.27	0.57
37:3:3:U:H2'	37:3:4:U:C6	2.38	0.57
85:5:1650:G:N2	85:5:1805:C:N3	2.45	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:181:U:O5'	85:5:181:U:H6	1.86	0.57
85:5:2104:A:O2'	85:5:2105:G:H5'	2.04	0.57
85:5:3019:U:O4	92:5:3488:OHX:N2	2.37	0.57
92:5:3481:OHX:N4	92:5:3702:OHX:N3	2.51	0.57
69:O3:86:ARG:NH2	85:5:497:C:O3'	214.60	0.57
80:6:1293:U:H2'	80:6:1294:G:O4'	2.05	0.57
38:8:105:A:H4'	38:8:106:C:OP1	2.04	0.57
17:C5:51:SER:C	17:C5:53:PRO:HD2	4.12	0.57
18:C6:18:ALA:HB2	18:C6:69:VAL:HG13	1.97	0.57
20:C8:121:ALA:O	20:C8:125:ILE:HG13	2.41	0.57
39:L2:180:LEU:O	85:5:2149:A:O2'	221.31	0.57
41:L4:151:VAL:HA	41:L4:250:TRP:O	2.04	0.57
43:L6:105:TYR:HE1	43:L6:134:ARG:HH11	1.50	0.57
43:L6:42:LEU:HD22	43:L6:79:VAL:HG21	2.52	0.57
53:M7:62:ARG:HG2	53:M7:63:PHE:CD1	2.39	0.57
44:L7:92:ILE:HD11	54:M8:4:ASP:N	2.17	0.57
56:N0:148:LEU:HD12	56:N0:149:LYS:N	2.19	0.57
56:N0:155:ARG:HH22	56:N0:172:TYR:H	4.33	0.57
59:N3:67:PRO:C	59:N3:69:LEU:H	2.32	0.57
2:S0:71:GLU:HG2	2:S0:72:ASP:H	2.37	0.57
3:S1:134:VAL:O	3:S1:218:LEU:N	3.65	0.57
6:S4:118:GLU:CD	6:S4:237:SER:HG	2.61	0.57
11:S9:79:ARG:O	11:S9:83:VAL:HG22	2.03	0.57
36:1:1211:U:H2'	36:1:1212:A:C8	2.38	0.57
36:1:2851:A:H2'	36:1:2852:C:C6	2.38	0.57
36:1:2881:C:H2'	36:1:2882:U:C6	2.39	0.57
1:2:1364:U:O4	1:2:1365:A:N6	2.37	0.57
1:2:196:G:O2'	1:2:197:A:P	2.62	0.57
1:2:318:U:O4	92:2:2005:OHX:N5	2.38	0.57
85:5:327:A:H2'	85:5:328:U:C6	2.39	0.57
85:5:3352:U:O2'	92:5:3734:OHX:N1	2.37	0.57
64:N8:16:SER:HA	85:5:942:U:N3	169.63	0.57
80:6:1699:G:N1	80:6:1701:A:H5''	2.19	0.57
80:6:223:U:H3	80:6:838:G:H1	1.53	0.57
20:C8:45:LEU:O	20:C8:48:LYS:HB2	2.69	0.57
2:S0:52:LYS:HB3	23:D1:82:VAL:HG22	1.86	0.57
32:E0:29:LYS:HG3	32:E0:30:PRO:HD2	4.90	0.57
36:1:860:G:C5	39:L2:181:LYS:HB2	2.38	0.57
40:L3:293:ASN:HB2	40:L3:304:THR:HA	1.87	0.57
41:L4:203:ARG:NH1	41:L4:226:GLU:OE2	2.74	0.57
45:L8:48:ARG:HH21	45:L8:49:TYR:HE2	1.52	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:L9:189:GLU:O	46:L9:191:LEU:N	2.38	0.57
36:1:268:A:C4	51:M5:12:ARG:HG2	2.38	0.57
56:N0:148:LEU:HD22	56:N0:149:LYS:N	5.28	0.57
68:O2:99:ASN:N	68:O2:99:ASN:OD1	2.83	0.57
79:Q3:33:GLN:HB3	79:Q3:69:TYR:HB3	1.85	0.57
7:S5:151:GLY:HA3	7:S5:156:ARG:H	4.28	0.57
9:S7:132:PRO:O	9:S7:133:THR:OG1	4.98	0.57
11:S9:151:ASP:OD1	11:S9:151:ASP:N	2.59	0.57
11:S9:37:LYS:HG3	11:S9:38:ASN:OD1	2.04	0.57
36:1:1004:U:C2	36:1:1005:G:N7	2.72	0.57
36:1:1504:A:C5	36:1:1505:C:C5	2.93	0.57
36:1:3191:G:O6	92:1:3665:OHX:N3	2.38	0.57
36:1:3375:A:H5''	36:1:3378:C:H5	1.69	0.57
1:2:1156:C:H2'	1:2:1157:C:H6	1.69	0.57
1:2:1457:G:H2'	1:2:1458:A:H8	1.69	0.57
1:2:72:A:O2'	1:2:73:U:H5''	2.04	0.57
85:5:1672:U:O2	85:5:1776:G:C2	2.57	0.57
85:5:187:A:C5	85:5:211:A:C2	2.92	0.57
85:5:2608:G:C2	85:5:2609:A:N7	2.73	0.57
85:5:2771:U:N3	85:5:2773:C:N3	2.53	0.57
85:5:3384:U:H2'	85:5:3385:U:C6	2.39	0.57
39:L2:181:LYS:HB2	85:5:860:G:C5	212.01	0.57
92:6:1996:OHX:N5	92:6:2033:OHX:N2	2.52	0.57
80:6:291:G:H2'	80:6:292:U:C6	2.39	0.57
14:C2:87:PRO:HA	14:C2:140:PHE:HE1	1.70	0.57
16:C4:91:THR:HG23	16:C4:92:LYS:N	3.05	0.57
41:L4:74:ILE:O	41:L4:76:ARG:HG3	2.42	0.57
42:L5:261:THR:HG23	42:L5:264:GLN:HG3	2.64	0.57
42:L5:35:ARG:HG2	85:5:2749:G:O2'	249.16	0.57
47:M0:198:LYS:HE2	85:5:1040:A:O2'	332.80	0.57
59:N3:129:VAL:O	59:N3:133:SER:OG	2.22	0.57
62:N6:57:LEU:HD22	62:N6:58:VAL:H	2.13	0.57
64:N8:56:VAL:HG22	64:N8:57:GLY:N	2.19	0.57
71:O5:28:LEU:O	71:O5:32:LYS:HG3	2.50	0.57
5:S3:208:ILE:HD12	19:C7:16:LEU:HD21	1.86	0.57
10:S8:84:HIS:CD2	10:S8:90:LEU:HD13	3.19	0.57
36:1:1072:G:H2'	36:1:1073:U:H6	1.68	0.57
36:1:1294:A:C2	36:1:1295:G:C8	2.92	0.57
36:1:1574:C:N4	36:1:1575:A:N7	2.53	0.57
92:1:3565:OHX:N5	92:1:3578:OHX:N5	2.52	0.57
36:1:980:A:H2'	36:1:981:U:C2	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1044:A:H2'	1:2:1045:A:H5'	1.86	0.57
1:2:621:A:N3	1:2:1090:G:H1'	2.20	0.57
1:2:1529:G:OP2	20:C8:134:ARG:NE	2.28	0.57
1:2:1738:A:C8	25:D3:63:GLN:HG3	2.39	0.57
1:2:1795:G:C2	1:2:1797:A:H5''	2.39	0.57
1:2:218:A:O2'	1:2:219:A:OP1	2.16	0.57
85:5:1748:G:O6	92:5:3688:OHX:N4	2.37	0.57
71:O5:90:ARG:NH1	85:5:20:A:OP2	85.80	0.57
40:L3:260:VAL:HG12	85:5:2394:G:C8	212.43	0.57
85:5:2602:G:C6	85:5:2603:G:C8	2.92	0.57
85:5:287:G:H2'	85:5:288:C:H6	1.69	0.57
85:5:2912:G:H1'	85:5:3131:U:OP1	2.04	0.57
85:5:48:A:O4'	85:5:50:U:C6	2.57	0.57
85:5:550:A:H2'	85:5:551:A:C8	2.39	0.57
85:5:650:C:O2'	85:5:651:G:H5'	2.04	0.57
80:6:1535:U:O2'	80:6:1536:G:P	2.63	0.57
10:S8:50:GLY:HA2	80:6:397:A:O3'	314.60	0.57
80:6:774:A:C5	80:6:775:G:H1'	2.39	0.57
12:C0:10:LYS:NZ	12:C0:36:ASP:O	3.13	0.57
18:C6:95:LYS:HE3	18:C6:96:TYR:CZ	2.40	0.57
28:D6:74:CYS:O	28:D6:78:ALA:N	5.35	0.57
33:E1:98:VAL:O	33:E1:99:LYS:HG2	3.12	0.57
42:L5:105:ILE:O	42:L5:109:THR:HG23	2.05	0.57
42:L5:155:THR:HB	42:L5:179:ARG:HD2	1.85	0.57
44:L7:56:GLU:O	44:L7:59:GLU:N	2.37	0.57
47:M0:47:PRO:O	47:M0:178:ARG:NH1	3.04	0.57
47:M0:77:THR:HG22	47:M0:82:ARG:HA	1.86	0.57
47:M0:35:ASP:OD1	47:M0:88:ARG:HG3	2.94	0.57
49:M3:121:SER:OG	49:M3:122:LYS:N	2.36	0.57
55:M9:158:GLU:HA	55:M9:161:ALA:HB3	2.61	0.57
56:N0:89:ASN:ND2	57:N1:155:PRO:CB	2.67	0.57
47:M0:169:LYS:HD2	57:N1:160:ILE:C	8.09	0.57
36:1:1738:C:HO2'	70:O4:53:GLY:H	1.51	0.57
71:O5:104:GLN:OE1	71:O5:107:LYS:NZ	2.36	0.57
2:S0:152:PRO:HB2	2:S0:154:GLU:HG2	1.85	0.57
2:S0:199:PRO:C	2:S0:201:LEU:H	2.81	0.57
2:S0:31:VAL:HG12	2:S0:33:GLN:N	2.17	0.57
6:S4:191:ARG:HD3	6:S4:245:LYS:HB2	1.86	0.57
36:1:272:G:OP2	92:1:3563:OHX:N3	2.37	0.57
92:1:3616:OHX:N4	92:1:3689:OHX:N3	2.53	0.57
1:2:1141:C:H42	1:2:1146:A:N6	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:116:U:H2'	1:2:117:U:C6	2.40	0.57
1:2:1169:U:OP1	1:2:1439:C:O2'	2.21	0.57
1:2:1725:U:H2'	1:2:1726:U:O4'	2.04	0.57
1:2:190:C:O2'	1:2:191:C:H5'	2.05	0.57
1:2:358:U:H2'	1:2:360:A:H8	1.70	0.57
55:M9:64:ARG:NE	85:5:1672:U:OP1	174.31	0.57
85:5:1694:U:N3	85:5:1695:U:C4	2.72	0.57
41:L4:221:ASN:OD1	85:5:211:A:H3'	79.15	0.57
85:5:2662:G:H2'	85:5:2663:G:C8	2.39	0.57
85:5:2794:G:O2'	85:5:2795:U:OP2	2.20	0.57
68:O2:37:GLY:HA2	85:5:640:U:OP1	183.17	0.57
80:6:1584:G:H22	80:6:1611:A:P	2.27	0.57
80:6:500:C:O2'	80:6:501:U:O4'	2.22	0.57
55:M9:162:ARG:HH21	80:6:815:G:H1'	304.41	0.57
80:6:909:U:H2'	80:6:910:C:C6	2.40	0.57
15:C3:114:ARG:HG3	80:6:952:A:O2'	298.89	0.57
45:L8:60:ARG:NH2	38:8:151:C:OP1	158.37	0.57
46:L9:9:GLN:HG2	46:L9:54:LYS:HG2	3.52	0.57
47:M0:90:ARG:O	47:M0:91:VAL:HG23	2.70	0.57
49:M3:54:LEU:N	49:M3:94:GLY:O	2.53	0.57
44:L7:80:GLN:OE1	57:N1:136:ARG:HB2	4.55	0.57
60:N4:50:ALA:HA	60:N4:55:PHE:CD1	2.40	0.57
68:O2:24:ARG:HG2	68:O2:25:TYR:CZ	2.40	0.57
71:O5:31:LEU:CD1	71:O5:47:VAL:HG11	2.35	0.57
78:Q2:40:LYS:HE3	78:Q2:44:ASP:OD2	2.70	0.57
5:S3:46:THR:N	5:S3:83:THR:O	2.97	0.57
8:S6:57:ASP:OD2	8:S6:60:GLY:N	3.97	0.57
36:1:221:A:O2'	36:1:224:C:N4	2.38	0.57
36:1:3361:G:O6	92:1:3694:OHX:N6	2.36	0.57
36:1:3128:G:OP2	92:1:3698:OHX:N2	2.37	0.57
1:2:1527:U:H4'	20:C8:132:ARG:NH2	2.19	0.57
1:2:1629:C:H2'	1:2:1630:U:C6	2.40	0.57
1:2:1720:G:N2	1:2:1721:U:C2	2.73	0.57
1:2:17:C:H2'	1:2:18:C:C6	2.39	0.57
1:2:485:A:H2'	1:2:486:G:O4'	2.05	0.57
37:3:80:G:O5'	37:3:80:G:H8	1.88	0.57
85:5:1093:A:C2	85:5:1096:U:O2	2.58	0.57
85:5:1265:U:H3	85:5:1276:U:H3	1.52	0.57
85:5:1299:U:H2'	85:5:1300:G:H8	1.70	0.57
85:5:2112:U:H4'	85:5:2113:A:O4'	2.04	0.57
85:5:2235:C:N4	85:5:2236:G:C6	2.73	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:73:ARG:NH2	85:5:2814:G:OP1	171.96	0.57
47:M0:157:TYR:CE1	85:5:2836:C:H4'	312.07	0.57
85:5:4:U:H2'	85:5:5:G:C8	2.39	0.57
80:6:419:G:O6	80:6:420:A:C6	2.57	0.57
16:C4:19:ILE:HB	16:C4:83:ILE:HD12	1.87	0.57
18:C6:47:LYS:HZ1	18:C6:114:ARG:HG2	1.68	0.57
24:D2:11:LEU:HD21	24:D2:37:PHE:CE1	2.39	0.57
27:D5:47:TYR:CZ	27:D5:51:LEU:HD11	2.94	0.57
29:D7:54:VAL:HG12	29:D7:63:LEU:HD12	2.29	0.57
41:L4:16:THR:HG22	41:L4:18:ASN:H	1.68	0.57
44:L7:175:LYS:HD3	44:L7:176:TYR:CE1	4.85	0.57
53:M7:36:ILE:O	53:M7:39:TRP:CD1	2.95	0.57
58:N2:42:LYS:HB3	58:N2:45:GLY:O	2.04	0.57
58:N2:90:ARG:O	58:N2:92:TRP:N	2.94	0.57
1:2:1718:U:OP2	59:N3:32:ARG:NH1	2.37	0.57
79:Q3:42:CYS:SG	79:Q3:60:CYS:HB2	2.45	0.57
3:S1:229:MET:HA	3:S1:232:HIS:CG	2.39	0.57
8:S6:68:LEU:O	8:S6:69:LEU:HB2	2.03	0.57
10:S8:20:GLN:NE2	10:S8:22:ARG:O	4.60	0.57
11:S9:93:LEU:O	11:S9:96:VAL:HG22	2.30	0.57
34:SR:149:ASP:HB2	34:SR:175:ASP:HB3	2.18	0.57
36:1:1349:G:H2'	36:1:1350:A:C4	2.40	0.57
36:1:1563:C:O2	36:1:1577:G:N2	2.37	0.57
36:1:158:G:H1	36:1:263:C:H42	1.51	0.57
36:1:2403:G:N3	36:1:2405:C:C5	2.73	0.57
36:1:2557:A:H2	45:L8:38:GLN:HA	1.70	0.57
36:1:3088:G:H2'	36:1:3089:C:O4'	2.05	0.57
36:1:3343:G:H2'	36:1:3361:G:N2	2.20	0.57
1:2:1341:G:H2'	1:2:1342:C:H6	1.68	0.57
1:2:834:U:H2'	1:2:835:C:C6	2.40	0.57
85:5:1093:A:C2	85:5:1096:U:C2	2.92	0.57
85:5:2207:A:C8	85:5:2208:A:H1'	2.39	0.57
85:5:3041:U:C4	85:5:3042:U:C4	2.93	0.57
92:5:3534:OHX:N3	92:5:3580:OHX:N4	2.53	0.57
57:N1:5:HIS:CE1	92:5:3652:OHX:N1	227.22	0.57
85:5:391:A:H2'	85:5:392:G:O4'	2.04	0.57
85:5:856:G:C6	85:5:857:G:N1	2.72	0.57
80:6:1394:G:H1	80:6:1404:C:H42	1.52	0.57
80:6:1494:C:H2'	80:6:1495:C:C6	2.40	0.57
80:6:1699:G:H2'	80:6:1700:C:H5'	1.86	0.57
15:C3:151:ASN:O	92:C3:201:OHX:N6	2.66	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:C8:110:ARG:NH2	20:C8:114:GLU:OE1	2.38	0.57
20:C8:134:ARG:HB3	80:6:1559:A:C8	364.45	0.57
21:C9:26:GLY:O	21:C9:28:LEU:HG	2.05	0.57
39:L2:193:ARG:NH1	85:5:2174:G:OP2	190.74	0.57
41:L4:8:VAL:HG21	41:L4:252:GLU:OE1	3.90	0.57
41:L4:257:LYS:O	41:L4:260:GLN:HB2	2.05	0.57
47:M0:4:ARG:HH11	85:5:2828:G:HO2'	264.79	0.57
51:M5:93:LYS:HG3	85:5:289:A:H2	146.63	0.57
56:N0:23:LYS:O	56:N0:24:LEU:HB2	2.04	0.57
40:L3:358:TRP:CZ3	60:N4:15:PRO:HD2	2.40	0.57
63:N7:53:VAL:HG11	63:N7:62:VAL:HG13	1.86	0.57
69:O3:77:ASN:HB2	85:5:1180:A:H5''	264.18	0.57
71:O5:53:CYS:O	71:O5:57:VAL:HG23	2.05	0.57
73:O7:48:ASN:HA	73:O7:54:LYS:NZ	2.79	0.57
6:S4:42:LEU:HD12	6:S4:109:PHE:CD2	3.58	0.57
7:S5:104:ASN:OD1	80:6:1587:A:O2'	364.40	0.57
9:S7:89:HIS:ND1	9:S7:168:SER:OG	3.75	0.57
10:S8:5:ARG:N	10:S8:28:GLU:O	2.78	0.57
34:SR:38:ARG:HG2	34:SR:67:ILE:HG23	1.87	0.57
36:1:1073:U:H1'	65:N9:50:THR:HB	1.86	0.57
36:1:1238:C:H41	36:1:1245:A:P	2.27	0.57
36:1:1829:G:O6	92:1:3547:OHX:N6	2.37	0.57
36:1:2218:G:H2'	36:1:2219:A:H8	1.69	0.57
36:1:2227:C:H2'	36:1:2228:A:H8	1.70	0.57
36:1:370:U:OP1	92:1:3651:OHX:N4	2.38	0.57
36:1:600:G:N2	36:1:604:G:C5	2.72	0.57
36:1:929:A:H2'	36:1:930:U:C6	2.39	0.57
1:2:1115:A:H2'	1:2:1116:A:C8	2.38	0.57
1:2:1155:G:H4'	1:2:1552:A:H2	1.70	0.57
1:2:1208:U:H2'	1:2:1209:A:O4'	2.05	0.57
1:2:998:U:OP1	92:2:1922:OHX:N3	2.37	0.57
1:2:700:C:H42	1:2:703:G:H22	1.52	0.57
1:2:758:G:O6	26:D4:11:LYS:NZ	2.29	0.57
85:5:1250:G:H2'	85:5:1251:A:C8	2.40	0.57
85:5:1660:C:H2'	85:5:1661:G:O4'	2.05	0.57
85:5:2108:C:H1'	85:5:3344:A:N3	2.18	0.57
85:5:2147:A:H2'	85:5:2148:U:C6	2.39	0.57
85:5:2211:U:H2'	85:5:2212:C:O4'	2.04	0.57
75:O9:48:LYS:O	92:5:3712:OHX:N4	116.27	0.57
85:5:819:U:H6	85:5:819:U:O5'	1.88	0.57
80:6:1557:U:OP2	80:6:1559:A:O2'	2.21	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:1636:C:C2	80:6:1765:A:N6	2.72	0.57
16:C4:54:GLU:CD	80:6:901:G:H22	282.09	0.57
15:C3:128:TYR:O	15:C3:131:THR:N	2.68	0.57
23:D1:5:LYS:O	23:D1:7:GLN:N	3.01	0.57
30:D8:10:ALA:HB1	30:D8:30:VAL:HB	1.86	0.57
32:E0:50:VAL:O	32:E0:52:GLY:N	2.38	0.57
40:L3:290:ASP:CG	40:L3:292:ALA:H	6.05	0.57
41:L4:329:PRO:C	41:L4:331:ALA:H	2.65	0.57
47:M0:3:ARG:HH12	47:M0:6:ALA:HB2	1.68	0.57
59:N3:74:MET:HG3	59:N3:75:PRO:O	2.80	0.57
61:N5:38:LEU:HD22	61:N5:40:LEU:HD13	2.72	0.57
69:O3:73:ARG:NH2	69:O3:82:ARG:NH2	2.53	0.57
71:O5:88:LEU:C	71:O5:90:ARG:N	2.58	0.57
64:N8:59:ARG:NH2	78:Q2:38:GLN:OE1	2.33	0.57
2:S0:195:TRP:CE2	2:S0:197:ILE:HD13	5.00	0.57
6:S4:128:LYS:O	6:S4:140:VAL:HG13	3.49	0.57
6:S4:46:VAL:O	6:S4:50:ASN:HB2	2.04	0.57
8:S6:132:ARG:NH1	80:6:149:C:O2'	332.27	0.57
10:S8:36:THR:HB	10:S8:57:ALA:O	2.17	0.57
10:S8:52:ASN:OD1	92:6:1988:OHX:N3	308.30	0.57
36:1:1564:U:H2'	36:1:1565:G:H8	1.68	0.57
36:1:2366:C:H2'	36:1:2367:A:H8	1.68	0.57
36:1:3328:G:C2	36:1:3329:U:H1'	2.39	0.57
36:1:2724:U:O4	92:1:3446:OHX:N2	2.38	0.57
92:1:3511:OHX:N5	92:1:3690:OHX:N2	2.53	0.57
36:1:542:G:O6	92:1:3731:OHX:N2	2.38	0.57
1:2:1365:A:H5''	22:D0:60:THR:HG22	1.86	0.57
1:2:361:C:H2'	1:2:362:G:C8	2.40	0.57
51:M5:75:VAL:O	85:5:2166:A:H5'	158.33	0.57
85:5:252:U:H4'	85:5:253:A:H5''	1.86	0.57
80:6:1158:C:OP2	92:6:1994:OHX:N3	2.37	0.57
80:6:755:A:HO2'	80:6:756:A:H8	1.51	0.57
38:8:82:U:O5'	92:8:216:OHX:N2	2.38	0.57
16:C4:25:ASP:HA	16:C4:54:GLU:O	2.04	0.57
33:E1:144:CYS:HB3	33:E1:147:VAL:HG23	3.04	0.57
40:L3:130:PHE:CE1	85:5:3149:G:H4'	220.93	0.57
45:L8:101:THR:HG22	45:L8:104:GLU:CG	2.34	0.57
36:1:2529:A:OP1	45:L8:248:LYS:NZ	2.37	0.57
48:M1:92:ARG:HH21	48:M1:94:ARG:HD2	7.90	0.57
49:M3:164:GLU:O	49:M3:165:SER:HB3	2.04	0.57
51:M5:60:VAL:O	51:M5:61:ILE:HD13	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:M5:85:THR:C	51:M5:87:GLN:N	3.18	0.57
54:M8:86:THR:HG22	54:M8:105:ARG:HD2	1.87	0.57
56:N0:6:GLU:OE1	56:N0:99:ARG:NH2	2.58	0.57
36:1:2737:C:OP1	57:N1:69:LYS:HB3	2.05	0.57
70:O4:71:THR:HG23	70:O4:78:GLY:H	1.70	0.57
71:O5:101:THR:HG22	71:O5:104:GLN:HB2	3.31	0.57
72:O6:73:ALA:O	72:O6:76:ARG:N	3.19	0.57
74:O8:44:LYS:HB3	74:O8:51:LEU:HD11	1.86	0.57
8:S6:176:GLN:HG2	80:6:169:A:H5''	327.84	0.57
9:S7:51:VAL:HG12	9:S7:53:GLY:H	1.71	0.57
36:1:1230:G:H1	36:1:1279:C:N4	2.01	0.56
36:1:1608:C:H2'	36:1:1609:C:C6	2.40	0.56
92:1:3511:OHX:N1	92:1:3690:OHX:N2	2.53	0.56
37:3:14:U:H5'	42:L5:24:ARG:HH11	1.70	0.56
37:3:5:G:C2	37:3:117:A:C2	2.93	0.56
38:4:53:A:C2	75:O9:35:ILE:HD11	2.40	0.56
85:5:1045:C:H6	85:5:1045:C:H5''	1.69	0.56
85:5:1782:U:H2'	85:5:1783:U:H6	1.70	0.56
92:5:3522:OHX:N3	92:5:3721:OHX:N4	2.53	0.56
85:5:576:C:H2'	85:5:577:C:C6	2.39	0.56
85:5:630:A:O5'	85:5:630:A:H8	1.88	0.56
80:6:1122:G:N2	80:6:1125:A:OP2	2.37	0.56
80:6:840:U:H2'	80:6:841:U:H6	1.69	0.56
80:6:899:G:H2'	80:6:900:A:C8	2.39	0.56
40:L3:56:ILE:HG23	40:L3:57:VAL:N	2.55	0.56
41:L4:115:HIS:CG	41:L4:119:ARG:HH12	4.91	0.56
41:L4:151:VAL:HG13	41:L4:250:TRP:O	2.06	0.56
41:L4:251:THR:O	41:L4:253:ALA:N	3.36	0.56
44:L7:178:ILE:HA	44:L7:183:ASP:HB3	1.96	0.56
44:L7:65:ALA:HB1	44:L7:76:TYR:CD1	3.12	0.56
46:L9:9:GLN:HG2	46:L9:54:LYS:CG	4.34	0.56
47:M0:29:SER:OG	47:M0:31:ILE:O	3.03	0.56
53:M7:27:LYS:HD3	53:M7:63:PHE:HB3	1.87	0.56
56:N0:2:ALA:HB3	56:N0:32:SER:CB	2.35	0.56
59:N3:25:CYS:SG	59:N3:27:ASP:OD2	3.32	0.56
63:N7:38:PHE:O	63:N7:40:HIS:ND1	2.21	0.56
64:N8:85:ASP:OD2	64:N8:86:LYS:HG3	4.41	0.56
70:O4:104:VAL:HA	70:O4:107:GLU:OE2	2.05	0.56
4:S2:188:LEU:HD13	4:S2:196:VAL:HG11	1.87	0.56
5:S3:164:VAL:O	5:S3:168:ILE:HG12	3.64	0.56
5:S3:64:ARG:O	5:S3:66:ILE:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S4:66:MET:HE3	80:6:454:U:H5'	367.66	0.56
7:S5:70:VAL:HG23	7:S5:72:HIS:H	3.03	0.56
8:S6:14:LYS:HB3	8:S6:124:LEU:HD13	2.44	0.56
8:S6:64:LYS:HD2	8:S6:97:VAL:HG21	3.37	0.56
8:S6:67:VAL:O	8:S6:68:LEU:HB2	2.22	0.56
9:S7:78:THR:HA	9:S7:81:LEU:HB2	1.87	0.56
1:2:478:A:O2'	11:S9:124:HIS:ND1	2.38	0.56
36:1:1488:G:C2	36:1:1489:A:C8	2.93	0.56
36:1:1658:G:H2'	36:1:1659:U:C6	2.40	0.56
36:1:2514:U:OP1	36:1:2514:U:H6	1.88	0.56
36:1:3029:A:C5	36:1:3030:G:H1'	2.39	0.56
36:1:3062:G:H1	36:1:3081:C:H42	1.52	0.56
36:1:3322:A:H2'	36:1:3323:A:C8	2.40	0.56
92:1:3511:OHX:N3	92:1:3690:OHX:N4	2.53	0.56
36:1:2236:G:OP1	92:1:3652:OHX:N6	2.38	0.56
1:2:1229:C:OP2	92:2:2035:OHX:N4	2.39	0.56
1:2:602:U:H2'	1:2:603:U:C6	2.40	0.56
1:2:778:U:C5	1:2:779:A:C8	2.92	0.56
85:5:1684:U:H2'	85:5:1685:C:C6	2.41	0.56
85:5:1724:U:H1'	85:5:1725:C:C6	2.39	0.56
85:5:2197:C:C6	85:5:2241:U:C5	2.93	0.56
85:5:278:U:H2'	85:5:279:U:C6	2.39	0.56
85:5:3354:U:H4'	85:5:3355:U:H5''	1.85	0.56
85:5:2997:G:O4'	85:5:3396:U:H5'	2.06	0.56
80:6:1000:C:N4	80:6:1003:A:OP2	2.25	0.56
2:S0:109:ASN:HB2	80:6:1294:G:H4'	413.29	0.56
80:6:1350:U:H2'	80:6:1351:G:C8	2.40	0.56
80:6:152:U:C2	80:6:163:G:N2	2.72	0.56
38:8:103:G:H5''	38:8:104:A:OP2	2.03	0.56
15:C3:115:LEU:HD22	15:C3:119:GLU:HG3	1.86	0.56
18:C6:115:THR:O	18:C6:117:LEU:N	3.97	0.56
18:C6:97:VAL:HG23	18:C6:98:ASP:H	3.09	0.56
24:D2:10:ALA:HB1	24:D2:27:ILE:HD12	1.86	0.56
24:D2:29:PRO:HB2	24:D2:58:SER:HB2	1.85	0.56
28:D6:6:ALA:HB3	80:6:1796:C:H5	346.41	0.56
1:2:478:A:OP1	32:E0:37:ARG:NH1	2.38	0.56
33:E1:106:TYR:HE2	33:E1:116:LYS:HG2	1.70	0.56
40:L3:44:THR:O	40:L3:45:SER:HB3	2.05	0.56
41:L4:328:ASN:OD1	44:L7:48:ASN:ND2	2.32	0.56
42:L5:88:ILE:HD12	42:L5:240:TYR:CD1	4.37	0.56
44:L7:83:LEU:HD23	44:L7:84:VAL:H	3.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:L7:99:PRO:O	44:L7:100:ARG:C	2.79	0.56
45:L8:81:THR:OG1	45:L8:181:LYS:HB2	2.29	0.56
47:M0:35:ASP:CG	47:M0:88:ARG:HG3	3.41	0.56
48:M1:26:SER:OG	48:M1:27:GLY:N	2.38	0.56
53:M7:108:ASP:O	53:M7:110:THR:N	2.50	0.56
53:M7:67:ILE:HG13	53:M7:82:ARG:CZ	2.36	0.56
36:1:1603:A:OP1	55:M9:38:ARG:NH1	2.38	0.56
56:N0:124:LEU:HD23	57:N1:153:PRO:HB2	2.72	0.56
58:N2:95:PHE:HE1	58:N2:103:TYR:CD1	5.74	0.56
63:N7:30:ASP:OD2	63:N7:77:TYR:OH	5.65	0.56
2:S0:48:ILE:HD13	2:S0:161:PRO:HB2	3.39	0.56
6:S4:121:TYR:HA	6:S4:163:ASP:O	4.28	0.56
9:S7:14:THR:OG1	9:S7:15:GLU:N	2.70	0.56
9:S7:96:ARG:HB3	80:6:856:A:N6	364.43	0.56
34:SR:202:LEU:HB2	34:SR:213:SER:HB3	1.87	0.56
36:1:1235:U:H4'	36:1:1236:G:H5'	1.87	0.56
36:1:1818:U:H2'	36:1:1819:U:O4'	2.04	0.56
36:1:2174:G:OP1	36:1:2174:G:H8	1.89	0.56
36:1:303:G:O2'	36:1:2778:G:OP2	2.20	0.56
36:1:3009:G:C6	36:1:3010:U:C4	2.93	0.56
36:1:3083:G:H2'	36:1:3084:C:H6	1.70	0.56
92:1:3590:OHX:N3	92:3:204:OHX:N6	2.52	0.56
36:1:638:C:H2'	36:1:639:G:C8	2.40	0.56
36:1:672:A:O2'	36:1:673:U:H5'	2.05	0.56
1:2:1074:A:H4'	1:2:1075:A:O5'	2.05	0.56
1:2:1388:G:H2'	1:2:1389:A:C8	2.39	0.56
1:2:1631:A:H2'	1:2:1632:G:C8	2.41	0.56
1:2:615:A:H2'	1:2:616:G:H8	1.70	0.56
1:2:64:U:O2'	1:2:168:A:N3	2.37	0.56
1:2:715:G:O2'	1:2:716:A:O4'	2.18	0.56
38:4:85:G:H3'	38:4:85:G:C8	2.40	0.56
85:5:1595:U:C2	85:5:1596:C:C5	2.93	0.56
85:5:2533:G:H2'	85:5:2534:G:C8	2.40	0.56
85:5:2698:G:H2'	85:5:2699:G:H8	1.70	0.56
85:5:1059:G:OP2	92:5:3646:OHX:N3	2.39	0.56
85:5:3155:U:C4	92:5:3730:OHX:N3	2.73	0.56
85:5:441:U:H1'	85:5:492:U:O2	2.05	0.56
85:5:734:C:H2'	85:5:735:A:H8	1.69	0.56
80:6:976:G:O6	92:6:1934:OHX:N6	2.39	0.56
38:8:132:G:C6	38:8:133:G:N7	2.73	0.56
13:C1:3:THR:OG1	13:C1:82:ARG:NE	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:C3:91:LEU:HD12	15:C3:125:LEU:HD12	2.44	0.56
15:C3:63:ALA:O	15:C3:67:THR:OG1	2.47	0.56
24:D2:83:ILE:HG13	24:D2:122:SER:HB2	5.06	0.56
29:D7:19:HIS:CD2	29:D7:21:LEU:H	4.57	0.56
40:L3:218:ILE:HG13	40:L3:276:THR:HG23	2.89	0.56
40:L3:25:ILE:H	40:L3:25:ILE:CD1	2.05	0.56
47:M0:77:THR:HG23	47:M0:85:PHE:HZ	1.70	0.56
50:M4:19:ARG:HB3	50:M4:35:ILE:HD12	1.87	0.56
56:N0:98:SER:HG	56:N0:100:VAL:H	1.49	0.56
52:M6:127:LEU:HD22	56:N0:156:VAL:HG23	1.87	0.56
57:N1:15:PHE:CE2	57:N1:44:ALA:HB3	2.39	0.56
60:N4:50:ALA:HA	60:N4:55:PHE:CG	2.98	0.56
62:N6:120:GLN:HE22	62:N6:126:LEU:CA	8.22	0.56
64:N8:74:ASN:HB3	64:N8:115:LYS:H	1.70	0.56
54:M8:94:PHE:CZ	64:N8:119:PRO:HD3	2.96	0.56
69:O3:14:LEU:HD11	69:O3:31:LYS:HB2	2.64	0.56
77:Q1:11:ARG:NH2	80:6:1127:G:OP1	292.84	0.56
7:S5:32:GLU:HA	7:S5:35:GLN:HB3	1.87	0.56
7:S5:36:ALA:HB1	7:S5:42:LEU:HD21	1.88	0.56
9:S7:131:PHE:HB3	9:S7:132:PRO:HD3	1.87	0.56
34:SR:90:ARG:HE	34:SR:102:ARG:HE	2.49	0.56
36:1:1307:G:H5''	52:M6:60:LYS:HE3	1.87	0.56
36:1:1613:A:H2'	36:1:1614:C:C6	2.40	0.56
36:1:2376:G:C6	36:1:2377:G:O6	2.59	0.56
36:1:2767:U:O4	92:1:3571:OHX:N6	2.39	0.56
36:1:3170:A:H61	36:1:3280:U:H3	1.52	0.56
36:1:616:G:H2'	36:1:617:G:C8	2.38	0.56
1:2:1274:G:N2	1:2:1307:G:H22	2.03	0.56
92:2:1921:OHX:N1	92:2:2040:OHX:N4	2.53	0.56
85:5:138:U:H2'	85:5:139:G:C8	2.40	0.56
85:5:1404:G:O6	92:5:3588:OHX:N3	2.39	0.56
85:5:2612:U:H2'	85:5:2613:U:O4'	2.05	0.56
85:5:3236:U:H1'	85:5:3252:G:N2	2.20	0.56
85:5:3317:U:O2'	85:5:3318:G:OP2	2.14	0.56
85:5:499:G:H8	85:5:499:G:O5'	1.88	0.56
80:6:1674:C:N3	80:6:1727:G:N2	2.46	0.56
10:S8:58:LEU:HD21	80:6:1676:U:H5''	269.79	0.56
80:6:1688:U:H3	80:6:1713:G:H1	1.53	0.56
80:6:1756[A]:A:H8	80:6:1756[A]:A:O5'	1.88	0.56
80:6:833:U:OP2	92:6:2018:OHX:N5	2.38	0.56
12:C0:46:LEU:O	12:C0:50:THR:HG23	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:C5:37:ALA:O	17:C5:42:ARG:NH1	2.89	0.56
31:D9:21:CYS:O	31:D9:23:VAL:N	3.27	0.56
33:E1:134:ASN:OD1	33:E1:139:LEU:HD11	4.29	0.56
40:L3:92:TYR:O	40:L3:155:ALA:HA	2.04	0.56
43:L6:18:LEU:O	85:5:592:A:H4'	216.22	0.56
47:M0:76:MET:HE1	47:M0:148:VAL:CA	4.26	0.56
47:M0:200:LEU:HA	47:M0:213:PHE:CE1	3.01	0.56
49:M3:100:ARG:NH1	85:5:76:G:O2'	84.46	0.56
56:N0:57:GLU:OE2	57:N1:139:ARG:NE	3.72	0.56
59:N3:35:TYR:HB2	59:N3:63:LYS:HD3	1.87	0.56
62:N6:120:GLN:CD	62:N6:126:LEU:HA	7.54	0.56
62:N6:5:SER:OG	62:N6:7:ASP:N	2.30	0.56
72:O6:10:GLY:O	72:O6:13:LYS:HB2	2.05	0.56
2:S0:14:ALA:HA	2:S0:17:LEU:HD12	2.26	0.56
3:S1:144:ARG:HH11	3:S1:202:LYS:HE2	7.27	0.56
5:S3:142:LEU:O	5:S3:144:ALA:N	2.38	0.56
6:S4:31:PRO:HG2	6:S4:38:LEU:HB2	5.13	0.56
9:S7:20:VAL:O	9:S7:24:PHE:N	2.85	0.56
9:S7:63:PRO:O	9:S7:64:VAL:HB	2.05	0.56
36:1:1110:U:OP1	54:M8:164:ARG:NH2	2.31	0.56
36:1:1278:A:O2'	36:1:1279:C:O5'	2.23	0.56
36:1:1184:A:C2	36:1:1323:G:C5	2.93	0.56
36:1:2144:A:C2	36:1:2281:A:C5	2.93	0.56
36:1:2766:U:N3	36:1:2767:U:C4	2.73	0.56
92:2:1972:OHX:N3	92:2:1986:OHX:N1	2.52	0.56
1:2:320:U:H3'	1:2:321:C:C5'	2.30	0.56
37:3:77:G:N2	37:3:102:A:OP2	2.27	0.56
65:N9:28:LYS:N	85:5:1065:A:C2	211.28	0.56
39:L2:174:ARG:HH22	85:5:2180:G:P	211.32	0.56
85:5:2631:U:C2	85:5:2632:G:C8	2.94	0.56
85:5:2898:G:H5''	85:5:2899:C:H5'	1.87	0.56
85:5:3207:U:H3'	85:5:3209:A:H2	1.71	0.56
85:5:223:U:O4	92:5:3744:OHX:N4	2.38	0.56
85:5:65:A:H4'	85:5:66:A:O5'	2.06	0.56
80:6:1738:U:O4	92:6:1917:OHX:N5	2.38	0.56
8:S6:186:ARG:HD3	80:6:268:C:H41	341.67	0.56
13:C1:53:TYR:CE2	13:C1:113:PRO:HG2	2.41	0.56
1:2:1211:G:OP2	14:C2:119:SER:HB3	2.06	0.56
14:C2:126:TRP:O	14:C2:128:ALA:N	2.39	0.56
21:C9:6:VAL:HG13	21:C9:66:TYR:CE1	2.40	0.56
40:L3:84:VAL:HB	40:L3:162:VAL:HB	2.58	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:L7:96:PRO:O	44:L7:99:PRO:HD2	2.36	0.56
50:M4:17:VAL:HG22	50:M4:36:VAL:O	2.06	0.56
51:M5:182:ASN:O	51:M5:183:THR:HG22	3.76	0.56
57:N1:79:MET:HA	57:N1:84:TYR:HA	1.87	0.56
61:N5:59:SER:HB3	61:N5:98:ALA:HB1	1.85	0.56
49:M3:161:ASP:OD1	64:N8:139:ARG:NH1	3.32	0.56
78:Q2:32:LYS:O	78:Q2:33:ALA:HB3	4.54	0.56
6:S4:122:LYS:NZ	6:S4:143:ASP:OD1	3.73	0.56
7:S5:97:LEU:O	7:S5:99:MET:N	2.64	0.56
8:S6:27:PHE:HE1	8:S6:36:VAL:HG11	1.68	0.56
11:S9:170:GLY:O	11:S9:174:ARG:HG3	3.06	0.56
36:1:1033:U:H2'	36:1:1034:U:C6	2.40	0.56
36:1:1743:G:C2	36:1:1744:G:C8	2.93	0.56
36:1:1859:A:C2	36:1:1860:G:C8	2.93	0.56
36:1:3:U:H2'	36:1:4:U:C6	2.39	0.56
36:1:562:C:H2'	36:1:563:U:H6	1.70	0.56
36:1:860:G:C6	39:L2:181:LYS:HB2	2.41	0.56
37:3:7:G:OP2	42:L5:28:THR:OG1	2.23	0.56
38:4:97:A:OP1	71:O5:63:ARG:NH2	2.27	0.56
85:5:1387:G:C2	85:5:1388:U:C5	2.94	0.56
85:5:2357:A:H2'	85:5:2358:A:C8	2.40	0.56
85:5:3342:A:N6	85:5:3343:G:C6	2.74	0.56
85:5:335:G:N2	85:5:336:A:H1'	2.20	0.56
92:5:3481:OHX:N1	92:5:3702:OHX:N1	2.54	0.56
80:6:1271:G:H2'	80:6:1272:U:H6	1.71	0.56
17:C5:122:THR:HG22	80:6:1558:U:H3	365.82	0.56
80:6:163:G:O5'	80:6:163:G:H8	1.89	0.56
80:6:938:G:N7	92:6:1960:OHX:N3	2.53	0.56
80:6:206:A:H1'	80:6:262:U:C2	2.41	0.56
80:6:265:A:C2	80:6:267:U:C4	2.94	0.56
38:8:56:G:H2'	38:8:57:C:C6	2.40	0.56
12:C0:30:ALA:O	12:C0:38:LYS:HA	2.06	0.56
16:C4:81:VAL:HG13	16:C4:115:ILE:HG23	3.28	0.56
17:C5:29:SER:OG	17:C5:31:GLU:HG3	2.05	0.56
42:L5:91:GLY:O	42:L5:94:ASN:ND2	3.28	0.56
44:L7:89:ILE:O	44:L7:111:ILE:HD11	2.06	0.56
49:M3:74:GLY:O	49:M3:101:ARG:NH1	2.39	0.56
51:M5:105:ARG:NH1	85:5:1545:A:N7	134.44	0.56
36:1:3185:U:C5	52:M6:126:VAL:HG21	2.40	0.56
60:N4:55:PHE:O	60:N4:57:LYS:N	3.47	0.56
36:1:190:U:C4	62:N6:60:ARG:NH1	2.73	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:O0:34:LEU:HD11	66:O0:42:ILE:HG21	1.87	0.56
68:O2:7:PRO:O	68:O2:8:LYS:C	2.56	0.56
6:S4:246:LEU:HB3	6:S4:250:GLU:HB2	1.86	0.56
7:S5:121:ILE:HD11	7:S5:198:LEU:HD12	1.87	0.56
8:S6:1:MET:HG2	8:S6:24:ILE:HD13	1.86	0.56
36:1:1791:C:N3	36:1:1792:C:N4	2.53	0.56
36:1:1806:A:N6	36:1:1807:G:C2	2.73	0.56
36:1:2747:A:H5'	42:L5:175:HIS:HA	1.88	0.56
36:1:2767:U:OP2	92:1:3670:OHX:N2	2.38	0.56
36:1:3020:U:O4	92:1:3523:OHX:N2	2.38	0.56
36:1:372:A:H2'	36:1:373:A:C8	2.41	0.56
36:1:812:G:C2	36:1:929:A:C2	2.94	0.56
1:2:1421:G:C2	1:2:1422:C:C2	2.93	0.56
1:2:1640:U:H1'	1:2:1641:G:OP2	2.05	0.56
1:2:310:C:N3	1:2:357:G:C2	2.73	0.56
1:2:477:A:OP1	32:E0:30:PRO:HA	2.05	0.56
38:4:82:U:O2	38:4:83:C:C5	2.59	0.56
85:5:1080:A:O2'	85:5:1081:U:H5'	2.04	0.56
85:5:2560:C:O2	92:5:3532:OHX:N2	2.38	0.56
85:5:438:A:H2'	85:5:494:G:H21	1.71	0.56
80:6:119:A:H1'	80:6:397:A:C5	2.40	0.56
80:6:1779:U:H2'	80:6:1781:A:OP2	2.06	0.56
80:6:761:G:O6	92:6:1938:OHX:N1	2.38	0.56
80:6:207:U:H3	80:6:258:C:H42	1.54	0.56
42:L5:270:LYS:HG2	37:7:2:G:H5'	319.15	0.56
12:C0:29:GLN:HB3	12:C0:39:ASN:HB2	1.88	0.56
15:C3:61:THR:O	15:C3:62:GLN:HG2	2.05	0.56
21:C9:16:ASN:HA	21:C9:56:LYS:NZ	2.88	0.56
1:2:1481:G:H5''	21:C9:72:GLY:HA3	1.88	0.56
23:D1:15:ARG:NH1	23:D1:33:GLN:OE1	2.35	0.56
26:D4:22:GLN:HB2	26:D4:72:PHE:HE1	1.71	0.56
30:D8:64:ARG:CZ	30:D8:65:ARG:HB3	7.28	0.56
42:L5:51:LEU:HD23	42:L5:146:LEU:HD23	1.86	0.56
44:L7:76:TYR:CE2	44:L7:78:GLU:HA	2.41	0.56
46:L9:88:TYR:CE2	46:L9:155:SER:HB3	3.48	0.56
46:L9:5:GLN:C	46:L9:6:THR:HG22	3.69	0.56
47:M0:51:HIS:CD2	47:M0:168:SER:HB3	3.76	0.56
36:1:685:G:P	49:M3:35:ARG:NH1	2.78	0.56
49:M3:79:GLU:O	49:M3:116:LEU:HD12	2.68	0.56
61:N5:113:LEU:HD12	61:N5:114:VAL:C	2.26	0.56
64:N8:70:LYS:N	64:N8:71:PRO:HD3	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:N9:7:HIS:ND1	65:N9:8:THR:N	3.06	0.56
68:O2:85:LEU:HB2	68:O2:117:ILE:HD13	1.86	0.56
45:L8:172:LYS:HD3	72:O6:39:PHE:HE1	4.62	0.56
9:S7:74:GLN:HE22	9:S7:92:PHE:HB2	1.71	0.56
36:1:121:A:C4	45:L8:108:ARG:NH1	2.73	0.56
97:1:3403:SPS:C6	98:P:101:8AN:O5'	2.54	0.56
36:1:68:C:O2	36:1:68:C:H2'	2.05	0.56
36:1:852:U:H2'	36:1:853:G:H8	1.71	0.56
1:2:1282:G:H2'	1:2:1283:A:C8	2.40	0.56
1:2:1327:A:N6	1:2:1360:U:O2'	2.30	0.56
1:2:1169:U:OP2	1:2:1439:C:H1'	2.06	0.56
1:2:327:U:H2'	1:2:328:A:H8	1.71	0.56
85:5:1899:G:O2'	85:5:2334:U:O4	2.19	0.56
40:L3:255:TRP:HB3	85:5:2941:A:OP1	224.87	0.56
85:5:3166:C:H42	85:5:3284:G:H1	1.52	0.56
85:5:1110:U:O4	92:5:3493:OHX:N4	2.39	0.56
80:6:1054:U:O4	92:6:2058:OHX:N4	2.39	0.56
92:6:2034:OHX:N3	92:6:2058:OHX:N4	2.54	0.56
80:6:486:G:H22	80:6:501:U:H3	1.53	0.56
80:6:85:A:N6	80:6:86:A:C6	2.74	0.56
20:C8:110:ARG:O	20:C8:114:GLU:HG2	2.90	0.56
47:M0:38:LYS:CG	47:M0:41:ALA:HB2	2.86	0.56
50:M4:21:VAL:CG2	50:M4:65:LEU:HD23	2.36	0.56
57:N1:34:TYR:CE1	57:N1:98:HIS:CD2	2.94	0.56
58:N2:9:GLN:C	58:N2:10:LYS:HD2	2.26	0.56
59:N3:10:LYS:NZ	59:N3:56:ASP:OD1	2.37	0.56
62:N6:89:LYS:HZ3	85:5:375:A:C5'	78.73	0.56
49:M3:64:LYS:CG	64:N8:69:TRP:CD1	2.87	0.56
68:O2:40:SER:O	68:O2:44:ARG:HG3	2.16	0.56
70:O4:96:GLU:O	70:O4:99:LYS:HB2	2.97	0.56
76:Q0:88:LYS:HD2	76:Q0:89:TYR:CE2	2.41	0.56
2:S0:154:GLU:O	2:S0:156:VAL:HG13	2.39	0.56
3:S1:121:ILE:HG12	3:S1:161:ILE:HG23	1.88	0.56
4:S2:143:TYR:OH	4:S2:150:GLN:N	2.38	0.56
8:S6:199:GLN:O	8:S6:203:GLU:HG2	2.98	0.56
34:SR:161:ALA:HB3	34:SR:164:ASP:HB3	1.87	0.56
36:1:170:G:H1	36:1:248:U:H3	1.54	0.56
36:1:2767:U:H2'	36:1:2768:U:C6	2.41	0.56
36:1:3166:C:H2'	36:1:3167:A:O4'	2.06	0.56
36:1:543:C:C4	36:1:544:C:C2	2.94	0.56
36:1:655:C:H2'	36:1:656:A:C8	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1542:A:C6	20:C8:134:ARG:HD2	2.40	0.56
1:2:590:C:H5''	32:E0:43:ARG:HH12	1.71	0.56
85:5:1524:A:C2	85:5:1527:C:C6	2.93	0.56
85:5:2101:C:H2'	85:5:2102:U:C6	2.41	0.56
85:5:3177:G:O2'	85:5:3179:U:OP1	2.11	0.56
85:5:3326:G:H2'	85:5:3327:G:C8	2.40	0.56
80:6:1784:C:H2'	80:6:1785:U:H6	1.71	0.56
80:6:320:U:C5	80:6:322:G:H5''	2.41	0.56
80:6:485:A:C5	80:6:486:G:H1'	2.41	0.56
11:S9:72:GLU:OE1	80:6:761:G:H4'	397.41	0.56
80:6:778:G:H22	80:6:780:A:H5'	1.71	0.56
15:C3:13:SER:OG	15:C3:14:SER:N	2.38	0.56
17:C5:64:LYS:HA	17:C5:73:PRO:HB3	1.87	0.56
20:C8:108:LYS:HA	20:C8:111:ASP:HB2	1.88	0.56
40:L3:111:SER:O	40:L3:115:LYS:HG3	2.45	0.56
42:L5:76:ALA:HB2	42:L5:109:THR:HG22	1.86	0.56
47:M0:128:ARG:HG2	47:M0:128:ARG:HH11	1.71	0.56
50:M4:101:LYS:O	50:M4:105:GLN:N	2.51	0.56
57:N1:41:ASP:OD1	57:N1:41:ASP:N	3.09	0.56
59:N3:131:SER:O	59:N3:133:SER:N	2.35	0.56
61:N5:91:ASN:OD1	61:N5:94:GLN:NE2	2.24	0.56
62:N6:16:ARG:O	62:N6:20:PHE:HD2	2.03	0.56
63:N7:2:ALA:O	63:N7:4:PHE:N	2.93	0.56
72:O6:26:ILE:C	72:O6:28:TYR:N	2.59	0.56
75:O9:33:ASN:ND2	75:O9:35:ILE:O	3.04	0.56
4:S2:49:LYS:HB3	4:S2:243:TYR:CD2	2.59	0.56
6:S4:192:ILE:HD13	6:S4:238:LEU:HD22	2.47	0.56
7:S5:64:VAL:HG12	7:S5:65:ARG:HD3	1.86	0.56
36:1:2224:A:N1	36:1:2783:U:O2'	2.33	0.56
36:1:2535:A:N6	36:1:2544:U:H3	2.04	0.56
36:1:366:A:H5''	36:1:367:A:OP2	2.06	0.56
1:2:1640:U:C6	92:2:1966:OHX:N5	2.67	0.56
1:2:1777:A:H1'	28:D6:79:ILE:HD12	1.88	0.56
1:2:358:U:O2'	1:2:360:A:H5''	2.06	0.56
1:2:603:U:H2'	1:2:604:A:C8	2.40	0.56
1:2:807:G:N2	1:2:832:C:O2	2.38	0.56
85:5:1464:G:N7	92:5:3477:OHX:N3	2.54	0.56
85:5:956:U:H2'	85:5:957:C:C6	2.41	0.56
80:6:1087:A:H5'	80:6:1298:U:O4	2.06	0.56
80:6:1564:U:H2'	80:6:1565:C:C6	2.40	0.56
30:D8:31:GLU:OE2	30:D8:36:THR:OG1	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:L2:6:ARG:HH12	39:L2:199:THR:H	2.34	0.56
39:L2:79:ASN:HD21	39:L2:114:SER:HB3	2.82	0.56
39:L2:83:HIS:NE2	39:L2:86:GLN:HB2	2.21	0.56
36:1:1101:G:H5''	44:L7:107:ARG:HD3	1.87	0.56
45:L8:165:PHE:H	45:L8:165:PHE:HD1	1.95	0.56
45:L8:42:PRO:CG	45:L8:44:ARG:HE	5.59	0.56
50:M4:40:ASP:C	50:M4:40:ASP:OD1	2.45	0.56
58:N2:11:ILE:O	58:N2:68:THR:HG22	6.06	0.56
63:N7:24:VAL:HG11	63:N7:87:LEU:HD23	1.87	0.56
76:Q0:93:LYS:HD3	76:Q0:105:PRO:HD3	5.66	0.56
3:S1:36:SER:HB3	3:S1:231:LEU:HD22	1.88	0.56
8:S6:2:LYS:HB3	8:S6:108:VAL:HG12	4.80	0.56
9:S7:150:GLN:HB2	9:S7:181:ILE:HD12	1.87	0.56
9:S7:35:LYS:HZ2	9:S7:39:ARG:HD2	1.71	0.56
34:SR:24:ALA:HB3	34:SR:34:LEU:HB3	1.87	0.56
34:SR:31:ASN:HA	34:SR:47:LEU:HD12	3.92	0.56
36:1:1062:A:H5''	36:1:1063:G:H5'	1.88	0.56
36:1:2108:C:O2'	36:1:3362:A:N6	2.39	0.56
36:1:2353:G:H5''	53:M7:86:LYS:CB	2.36	0.56
36:1:3324:C:OP2	67:O1:18:LYS:NZ	2.34	0.56
36:1:1033:U:O4	92:1:3591:OHX:N5	2.38	0.56
36:1:409:A:H61	38:4:15:G:H1'	1.69	0.56
36:1:412:G:C6	36:1:413:U:C4	2.94	0.56
1:2:1333:U:H2'	1:2:1334:G:C8	2.41	0.56
1:2:849:G:OP1	15:C3:2:GLY:HA2	2.06	0.56
38:4:150:G:C8	92:4:208:OHX:N4	2.74	0.56
85:5:3060:C:H2'	85:5:3061:G:O4'	2.06	0.56
85:5:80:G:H2'	85:5:81:C:C6	2.41	0.56
80:6:1060:U:H4'	80:6:1061:A:H5''	1.88	0.56
80:6:1087:A:H2'	80:6:1088:A:H8	1.68	0.56
80:6:576:G:H4'	80:6:580:A:C4	2.41	0.56
80:6:74:U:C4	80:6:76:A:C5'	2.89	0.56
18:C6:22:VAL:HG22	18:C6:65:ILE:HG23	2.80	0.56
20:C8:41:ARG:NE	21:C9:46:PRO:HG3	3.62	0.56
24:D2:26:LEU:HD12	24:D2:61:ILE:O	6.94	0.56
27:D5:41:ILE:HG13	27:D5:42:LEU:H	1.72	0.56
27:D5:48:ASP:HA	27:D5:51:LEU:HB2	1.88	0.56
30:D8:19:THR:HG21	30:D8:65:ARG:HA	2.65	0.56
31:D9:15:GLY:O	31:D9:17:GLY:N	3.16	0.56
39:L2:131:GLY:HA2	39:L2:169:ILE:O	2.67	0.56
39:L2:209:HIS:HD2	39:L2:210:PRO:CD	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:117:ARG:NH2	40:L3:175:LYS:HD3	3.22	0.56
40:L3:298:PHE:CD2	40:L3:357:LYS:HG2	4.82	0.56
41:L4:135:VAL:O	41:L4:140:HIS:HB2	2.35	0.56
44:L7:153:PHE:CD2	44:L7:153:PHE:N	2.87	0.56
36:1:2586:G:N7	45:L8:241:LYS:HB2	2.20	0.56
47:M0:140:THR:OG1	47:M0:144:ASN:HB3	2.06	0.56
49:M3:56:PRO:HG2	49:M3:72:GLY:HA3	1.88	0.56
59:N3:118:VAL:HG12	59:N3:119:GLY:N	2.46	0.56
63:N7:85:TYR:CE2	63:N7:129:TRP:CE2	4.18	0.56
72:O6:50:LEU:O	72:O6:55:ARG:NH2	2.88	0.56
4:S2:81:MET:N	4:S2:101:VAL:O	2.32	0.56
4:S2:152:HIS:H	4:S2:152:HIS:HD2	3.13	0.56
5:S3:195:SER:O	5:S3:196:ARG:HB3	2.06	0.56
8:S6:126:ASP:OD2	8:S6:127:THR:HG22	2.31	0.56
36:1:1366:A:C2	36:1:1367:G:C4	2.94	0.55
36:1:1714:A:C2	36:1:1728:G:C2	2.94	0.55
36:1:2616:C:C2'	36:1:2617:U:H5'	2.37	0.55
36:1:3030:G:C5	36:1:3031:G:C8	2.93	0.55
36:1:304:G:H2'	36:1:304:G:N3	2.20	0.55
36:1:386:A:C5	36:1:387:A:H1'	2.41	0.55
36:1:406:G:H1'	38:4:16:G:N2	2.21	0.55
36:1:88:A:OP2	54:M8:171:LYS:HE2	2.06	0.55
1:2:1611:U:H2'	1:2:1612:G:C8	2.40	0.55
1:2:5:U:C2	1:2:20:G:N2	2.74	0.55
1:2:635:A:C8	1:2:846:A:N6	2.75	0.55
85:5:1355:A:H1'	85:5:1356:U:OP2	2.05	0.55
85:5:163:C:C2	85:5:164:A:C8	2.93	0.55
85:5:2261:G:O2'	85:5:2263:C:N4	2.40	0.55
85:5:2289:U:H2'	85:5:2290:C:H6	1.70	0.55
85:5:2568:C:O2'	85:5:2569:A:O5'	2.15	0.55
85:5:2884:C:O2	85:5:2939:G:C2	2.60	0.55
80:6:329:G:H2'	80:6:330:G:H8	1.70	0.55
80:6:86:A:H2'	80:6:87:C:C6	2.39	0.55
15:C3:129:TYR:HB3	15:C3:134:VAL:HG22	1.88	0.55
20:C8:24:GLY:O	20:C8:59:GLY:N	5.43	0.55
4:S2:54:GLU:OE1	23:D1:11:LEU:HB2	2.05	0.55
27:D5:59:TYR:HE1	27:D5:100:ILE:HA	5.96	0.55
16:C4:114:ARG:HA	28:D6:62:TYR:CZ	2.40	0.55
30:D8:18:ARG:HD2	30:D8:23:GLY:O	2.06	0.55
39:L2:108:PRO:O	39:L2:111:THR:OG1	2.24	0.55
47:M0:145:LYS:O	47:M0:147:VAL:N	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:M0:192:ASP:HA	47:M0:197:VAL:HG12	1.88	0.55
48:M1:110:ILE:C	48:M1:112:LEU:H	2.09	0.55
49:M3:46:ILE:HG22	49:M3:49:ARG:HB2	1.88	0.55
49:M3:93:ILE:HG22	49:M3:94:GLY:H	4.68	0.55
36:1:2721:A:O3'	65:N9:33:LYS:NZ	2.39	0.55
71:O5:26:LYS:O	71:O5:29:ALA:HB3	2.06	0.55
79:Q3:46:THR:HB	79:Q3:58:SER:HB2	1.88	0.55
4:S2:106:ASP:OD1	4:S2:107:SER:N	2.38	0.55
6:S4:104:ASP:OD1	6:S4:110:ALA:HB2	2.06	0.55
6:S4:26:CYS:HB3	6:S4:27:TYR:CD2	6.14	0.55
6:S4:26:CYS:HB3	6:S4:27:TYR:CE2	6.16	0.55
6:S4:42:LEU:N	6:S4:84:ALA:O	2.39	0.55
7:S5:40:ILE:HG23	7:S5:42:LEU:HD22	1.87	0.55
10:S8:43:ILE:O	10:S8:44:HIS:ND1	2.39	0.55
36:1:1553:U:H4'	36:1:1554:U:H5'	1.87	0.55
36:1:2533:G:H3'	36:1:2534:G:H8	1.70	0.55
1:2:1287:G:H5'	1:2:1305:A:OP2	2.06	0.55
38:4:127:U:H2'	38:4:128:U:H5'	1.88	0.55
85:5:1119:C:H2'	85:5:1120:A:H8	1.72	0.55
85:5:1171:G:N7	92:5:3506:OHX:N1	2.55	0.55
45:L8:108:ARG:NH1	85:5:121:A:C4	96.49	0.55
85:5:1621:A:H2'	85:5:1622:U:C6	2.41	0.55
85:5:1709:C:H2'	85:5:1710:C:C6	2.41	0.55
70:O4:88:ARG:NH1	85:5:2556:C:OP1	200.19	0.55
85:5:3266:G:C6	85:5:3267:A:C6	2.94	0.55
92:5:3522:OHX:N6	92:5:3721:OHX:N2	2.54	0.55
85:5:532:A:O2'	85:5:533:A:H5'	2.06	0.55
85:5:536:U:OP2	92:5:3500:OHX:N4	2.39	0.55
80:6:651:G:H3'	92:6:2016:OHX:N4	2.20	0.55
80:6:686:C:H2'	80:6:687:G:C8	2.41	0.55
80:6:94:U:H2'	80:6:95:G:O4'	2.06	0.55
15:C3:88:LEU:HD23	15:C3:92:ILE:HG13	3.33	0.55
27:D5:54:VAL:HG11	27:D5:83:LEU:HD13	3.43	0.55
39:L2:209:HIS:CD2	39:L2:210:PRO:CD	2.88	0.55
40:L3:114:VAL:O	40:L3:116:ARG:N	3.17	0.55
41:L4:140:HIS:HA	41:L4:177:ASP:OD1	2.07	0.55
42:L5:256:THR:O	42:L5:258:LYS:HD3	4.94	0.55
48:M1:29:ARG:HG3	48:M1:32:ARG:NH1	4.00	0.55
58:N2:89:LEU:O	58:N2:93:ILE:HG13	2.06	0.55
63:N7:41:ALA:HB2	63:N7:77:TYR:HE2	5.76	0.55
36:1:1852:G:O2'	73:O7:6:PRO:O	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
97:5:3403:SPS:N4	91:P:75:C:P	223.95	0.55
7:S5:75:GLY:O	7:S5:76:ARG:HD3	3.60	0.55
9:S7:142:TYR:O	24:D2:49:GLU:HG3	2.07	0.55
36:1:2778:G:H2'	36:1:2779:A:H5'	1.88	0.55
1:2:1465:C:OP2	1:2:1504:G:N2	2.28	0.55
1:2:1519:G:C6	1:2:1521:U:H1'	2.41	0.55
1:2:577:G:N1	35:SM:99:LYS:HG2	2.21	0.55
37:3:45:A:H2'	37:3:46:A:H8	1.70	0.55
85:5:2183:A:C6	85:5:2184:U:C4	2.94	0.55
92:M5:301:OHX:N6	85:5:277:G:OP1	166.90	0.55
85:5:2882:U:H2'	85:5:2883:U:O4'	2.06	0.55
92:5:3566:OHX:N5	92:5:3640:OHX:N2	2.53	0.55
85:5:701:G:H2'	85:5:702:C:C6	2.42	0.55
80:6:83:G:OP2	92:6:1952:OHX:N3	2.39	0.55
80:6:230:C:H42	80:6:235:G:H1	1.52	0.55
80:6:63:G:C6	80:6:64:U:C5	2.95	0.55
18:C6:97:VAL:CG2	18:C6:98:ASP:N	2.91	0.55
20:C8:56:LYS:HB3	20:C8:60:GLU:HG3	1.87	0.55
25:D3:69:ARG:HD2	25:D3:117:ILE:HG12	2.29	0.55
40:L3:56:ILE:HG12	40:L3:356:LEU:HD22	2.45	0.55
50:M4:85:TRP:O	50:M4:90:VAL:HG23	2.07	0.55
50:M4:99:TRP:HE1	85:5:3206:C:H2'	307.96	0.55
51:M5:58:GLY:HA3	51:M5:142:ILE:HD11	1.88	0.55
52:M6:84:LEU:C	52:M6:84:LEU:HD23	2.92	0.55
59:N3:89:ASP:OD1	59:N3:91:VAL:HG22	2.07	0.55
67:O1:50:ARG:CZ	67:O1:90:PHE:CZ	4.06	0.55
76:Q0:96:CYS:HA	76:Q0:121:LEU:CD2	2.68	0.55
79:Q3:49:ARG:HB2	79:Q3:55:TRP:CH2	3.08	0.55
79:Q3:62:LYS:HD3	85:5:2554:A:N6	216.99	0.55
6:S4:50:ASN:O	6:S4:51:ARG:NH2	3.73	0.55
8:S6:137:ARG:O	8:S6:141:ILE:HG13	2.27	0.55
34:SR:16:HIS:CE1	34:SR:37:SER:HB2	2.41	0.55
36:1:1363:A:H8	36:1:1363:A:O5'	1.89	0.55
36:1:2416:U:H2'	36:1:2417:U:C6	2.41	0.55
36:1:2655:U:C2	36:1:2656:A:C6	2.94	0.55
36:1:2669:G:N7	92:1:3603:OHX:N4	2.54	0.55
36:1:2926:A:H2'	36:1:2927:C:H5'	1.88	0.55
36:1:3111:U:N3	36:1:3112:G:C8	2.74	0.55
36:1:3195:U:H1'	36:1:3196:U:OP1	2.05	0.55
36:1:1192:C:N4	92:1:3583:OHX:N5	2.53	0.55
36:1:891:G:OP1	92:1:3419:OHX:N3	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:639:U:OP1	9:S7:117:THR:OG1	2.19	0.55
85:5:1246:G:C4	85:5:1264:G:C2	2.95	0.55
53:M7:138:LYS:O	85:5:2356:A:H4'	148.34	0.55
85:5:2514:U:OP1	85:5:2514:U:C6	2.57	0.55
85:5:1196:C:O2'	92:5:3503:OHX:N1	2.39	0.55
80:6:1358:G:H2'	80:6:1359:C:H6	1.71	0.55
80:6:700:C:H1'	80:6:739:G:N2	2.21	0.55
80:6:827:C:N4	80:6:845:G:H1	2.05	0.55
19:C7:21:TYR:N	19:C7:22:PRO:HD2	2.27	0.55
19:C7:57:LEU:O	19:C7:61:ILE:N	3.10	0.55
1:2:590:C:OP1	32:E0:43:ARG:NH1	2.39	0.55
41:L4:37:THR:OG1	41:L4:38:VAL:N	2.38	0.55
54:M8:85:GLY:N	54:M8:104:LEU:HD12	2.22	0.55
36:1:775:A:H5''	65:N9:41:ARG:HD3	1.87	0.55
67:O1:28:ARG:O	67:O1:31:ARG:N	3.39	0.55
71:O5:86:ARG:HA	71:O5:89:ARG:HH21	1.71	0.55
2:S0:168:HIS:ND1	2:S0:203:PHE:CZ	4.29	0.55
7:S5:143:ARG:HA	7:S5:167:ARG:HD3	2.63	0.55
10:S8:81:VAL:HG12	10:S8:91:VAL:HG13	1.89	0.55
36:1:993:G:N2	36:1:1056:U:O4	2.37	0.55
36:1:3100:U:O2'	36:1:3101:G:OP2	2.22	0.55
36:1:3343:G:H21	36:1:3362:A:H2	1.54	0.55
36:1:543:C:H42	36:1:548:G:H1	1.53	0.55
1:2:797:A:C8	1:2:799:G:C8	2.94	0.55
1:2:97:C:H2'	1:2:98:U:H6	1.68	0.55
37:3:86:U:O2'	92:3:204:OHX:N3	2.40	0.55
85:5:1595:U:H4'	85:5:1595:U:OP1	2.07	0.55
85:5:196:G:C2	85:5:199:A:C8	2.94	0.55
85:5:2660:G:H2'	85:5:2661:G:H8	1.72	0.55
85:5:3165:A:H2'	85:5:3166:C:C6	2.42	0.55
85:5:3228:C:H4'	85:5:3229:G:O5'	2.06	0.55
92:5:3718:OHX:N4	92:5:3729:OHX:N6	2.54	0.55
85:5:815:G:C2	85:5:926:A:C2	2.94	0.55
80:6:1491:U:H4'	80:6:1492:A:O5'	2.06	0.55
18:C6:135:ARG:NH1	80:6:1582:U:OP1	380.13	0.55
80:6:1239:U:O4	92:6:1951:OHX:N5	2.39	0.55
80:6:27:U:OP1	92:6:1962:OHX:N3	2.40	0.55
80:6:394:C:O5'	80:6:394:C:H6	1.89	0.55
80:6:419:G:C6	80:6:420:A:C6	2.95	0.55
11:S9:172:VAL:HB	80:6:512:A:OP2	455.50	0.55
80:6:794:U:H4'	80:6:795:U:OP2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:C2:103:LEU:HG	14:C2:116:VAL:HG22	1.89	0.55
1:2:943:U:H1'	15:C3:52:VAL:HG23	1.88	0.55
40:L3:108:GLU:HB2	40:L3:137:TYR:CE1	2.42	0.55
40:L3:284:ARG:NH2	40:L3:295:ALA:O	2.39	0.55
40:L3:78:VAL:HG22	40:L3:323:MET:HG3	2.21	0.55
41:L4:142:VAL:HG12	41:L4:247:PHE:CZ	3.47	0.55
42:L5:79:TYR:HE2	37:7:118:A:HO2'	286.57	0.55
48:M1:115:LYS:HG2	48:M1:116:TYR:H	1.72	0.55
48:M1:138:VAL:HG22	48:M1:141:ARG:NH2	2.22	0.55
50:M4:20:VAL:HG12	50:M4:68:LEU:O	2.43	0.55
63:N7:124:ALA:O	63:N7:126:LYS:N	2.39	0.55
72:O6:9:ILE:HD13	72:O6:10:GLY:N	4.80	0.55
72:O6:79:SER:HB3	72:O6:82:ARG:HG3	3.49	0.55
5:S3:10:LYS:HG3	5:S3:11:LEU:HD23	1.86	0.55
6:S4:120:SER:O	6:S4:164:LEU:HB2	2.59	0.55
6:S4:193:GLY:O	6:S4:194:THR:OG1	2.24	0.55
1:2:93:A:O2'	6:S4:4:GLY:HA3	2.05	0.55
35:SM:85:SER:O	35:SM:87:THR:N	2.39	0.55
34:SR:249:ARG:NH1	34:SR:315:VAL:HG21	4.02	0.55
36:1:1337:A:N6	36:1:1338:C:N4	2.55	0.55
36:1:1449:A:C2	36:1:2356:A:C4	2.94	0.55
36:1:3189:G:H2'	36:1:3190:C:C6	2.41	0.55
36:1:3290:G:O6	92:1:3668:OHX:N6	2.39	0.55
1:2:1125:A:H2'	1:2:1126:A:H8	1.72	0.55
1:2:1657:C:C2	1:2:1658:C:C5	2.95	0.55
1:2:1736:A:C6	1:2:1737:A:C5	2.94	0.55
1:2:558:U:OP1	32:E0:55:ARG:NH1	2.39	0.55
1:2:831:C:H2'	1:2:832:C:H6	1.72	0.55
36:1:1196:C:O2'	92:3:204:OHX:N5	2.40	0.55
37:3:61:G:H2'	37:3:62:U:H6	1.71	0.55
85:5:1253:U:O2	85:5:1263:A:H5'	2.06	0.55
39:L2:70:ARG:CZ	85:5:2522:G:O6	177.21	0.55
85:5:2668:U:H2'	85:5:2669:G:C8	2.40	0.55
85:5:2842:U:C5	85:5:2843:U:H5	2.25	0.55
85:5:3307:A:C5	85:5:3308:C:C5	2.94	0.55
85:5:900:G:H2'	85:5:901:G:H8	1.69	0.55
80:6:1218:G:O4'	80:6:1444:A:N6	2.40	0.55
20:C8:126:ARG:NH1	80:6:1459:C:OP1	350.86	0.55
80:6:1714:A:H2'	80:6:1715:G:O4'	2.07	0.55
80:6:1579:U:P	92:6:2039:OHX:N3	2.79	0.55
80:6:427:C:H42	80:6:428:A:N6	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:8:132:G:O6	92:8:208:OHX:N4	2.40	0.55
85:5:59:G:H2'	38:8:33:A:O2'	2.06	0.55
38:8:6:U:O2'	38:8:7:U:H5'	2.06	0.55
1:2:914:C:OP1	28:D6:70:LYS:HE2	2.07	0.55
36:1:1793:C:O2	39:L2:188:LYS:HE3	2.06	0.55
39:L2:200:ARG:O	39:L2:202:VAL:N	2.39	0.55
41:L4:258:LEU:C	41:L4:260:GLN:H	2.10	0.55
41:L4:337:GLU:HB2	41:L4:339:LEU:CD2	2.37	0.55
44:L7:145:ARG:HA	44:L7:185:ILE:HD13	2.39	0.55
51:M5:4:TYR:CE1	51:M5:49:ARG:HD3	3.06	0.55
52:M6:189:ASP:O	52:M6:193:GLN:HG3	2.14	0.55
54:M8:122:ILE:HG22	54:M8:126:GLN:OE1	5.81	0.55
54:M8:32:LEU:O	54:M8:35:PHE:HB3	2.27	0.55
57:N1:83:ARG:HD2	57:N1:85:LEU:HD21	4.02	0.55
61:N5:67:ILE:HD13	61:N5:115:ARG:HH21	1.71	0.55
63:N7:85:TYR:HE2	63:N7:129:TRP:CZ2	4.21	0.55
4:S2:234:PRO:O	4:S2:235:LEU:HB2	2.24	0.55
5:S3:40:ARG:HA	22:D0:110:PRO:HB3	1.88	0.55
7:S5:62:VAL:HG13	7:S5:89:ILE:HG12	2.02	0.55
36:1:1222:G:N2	36:1:1285:G:O2'	2.40	0.55
36:1:1391:C:C2	68:O2:103:LYS:HD3	2.42	0.55
36:1:1583:A:H3'	36:1:1584:U:H6	1.71	0.55
36:1:2383:C:H5'	52:M6:71:PHE:CE2	2.42	0.55
36:1:307:A:H61	36:1:2782:U:H3	1.53	0.55
36:1:40:A:N7	64:N8:29:PRO:O	2.40	0.55
36:1:500:C:OP2	92:1:3542:OHX:N1	2.39	0.55
1:2:1201:G:N2	1:2:1427:A:OP2	2.39	0.55
1:2:1508:A:OP1	21:C9:93:HIS:ND1	2.40	0.55
1:2:1608:C:OP1	4:S2:91:ARG:NH2	2.40	0.55
1:2:129:U:O2	92:2:1912:OHX:N1	2.40	0.55
38:4:57:C:O2'	38:4:61:A:O2'	2.14	0.55
85:5:1049:C:H2'	85:5:1050:U:H6	1.71	0.55
85:5:1159:A:O2'	85:5:1160:C:H5'	2.06	0.55
56:N0:139:TYR:OH	85:5:1213:G:OP1	323.10	0.55
85:5:1238:C:H4'	85:5:1239:C:OP1	2.07	0.55
85:5:1573:G:C6	85:5:1574:C:H1'	2.42	0.55
85:5:163:C:H2'	85:5:164:A:H8	1.72	0.55
85:5:2235:C:C4	85:5:2236:G:C5	2.95	0.55
85:5:920:A:OP1	85:5:922:U:C5	2.60	0.55
80:6:1690:G:H1	80:6:1711:C:H42	1.52	0.55
80:6:427:C:N4	80:6:428:A:N6	2.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:40:A:H1'	80:6:469:C:N3	2.22	0.55
80:6:538:A:C4	80:6:543:C:H5	2.24	0.55
37:7:72:A:H8	37:7:72:A:O5'	1.90	0.55
38:8:48:A:C2	38:8:51:G:N1	2.74	0.55
12:C0:54:TYR:O	12:C0:69:THR:OG1	2.14	0.55
12:C0:6:GLU:OE1	12:C0:10:LYS:NZ	2.27	0.55
1:2:870:A:H1'	16:C4:122:PRO:HB3	1.88	0.55
1:2:1443:A:C8	17:C5:128:HIS:HB3	2.40	0.55
17:C5:111:MET:HG2	20:C8:119:ILE:HG12	3.97	0.55
22:D0:46:GLU:HB2	22:D0:52:LYS:HZ1	1.70	0.55
27:D5:54:VAL:HG13	27:D5:57:TYR:HD1	1.71	0.55
39:L2:117:GLU:CD	39:L2:121:GLY:H	2.10	0.55
42:L5:235:SER:O	42:L5:239:ILE:HG13	2.06	0.55
42:L5:285:ARG:HH12	37:7:62:U:H4'	340.65	0.55
44:L7:207:LEU:O	85:5:1334:U:H5'	240.01	0.55
51:M5:73:ARG:HG2	51:M5:75:VAL:HB	2.86	0.55
57:N1:51:GLY:O	57:N1:95:HIS:HD2	2.32	0.55
38:4:151:C:C5	61:N5:24:LEU:HD11	2.42	0.55
71:O5:77:PRO:HD2	71:O5:80:LEU:HD12	1.89	0.55
2:S0:81:PHE:CD2	2:S0:166:GLY:HA2	3.49	0.55
2:S0:172:LEU:O	2:S0:176:LEU:HG	2.07	0.55
4:S2:179:VAL:HG12	80:6:3:U:H5'	391.20	0.55
9:S7:46:ILE:HG23	9:S7:59:ALA:O	3.82	0.55
34:SR:211:ILE:HB	34:SR:223:TRP:HB2	1.88	0.55
36:1:3115:C:O2'	36:1:3117:C:N4	2.39	0.55
36:1:3226:A:C2	36:1:3260:G:C6	2.95	0.55
36:1:3308:C:C4	36:1:3309:G:C5	2.94	0.55
92:1:3565:OHX:N5	92:1:3729:OHX:N6	2.55	0.55
36:1:614:C:H2'	36:1:615:U:H6	1.72	0.55
1:2:1047:G:O2'	3:S1:204:ILE:O	2.25	0.55
1:2:1273:U:H2'	1:2:1274:G:C8	2.42	0.55
1:2:1571:G:H1	1:2:1591:U:H3	1.53	0.55
1:2:764:U:O2'	1:2:765:U:H6	1.90	0.55
1:2:847:U:O4'	1:2:847:U:O2	2.21	0.55
85:5:1634:G:C2	85:5:1640:G:C2	2.95	0.55
85:5:1877:U:OP2	92:5:3460:OHX:N1	2.39	0.55
85:5:2661:G:O2'	85:5:2662:G:H5'	2.07	0.55
85:5:392:G:C6	85:5:393:U:C5	2.95	0.55
80:6:1315:U:H2'	80:6:1316:G:O4'	2.07	0.55
80:6:598:U:OP2	92:6:1999:OHX:N4	2.40	0.55
80:6:621:A:N3	80:6:1107:G:H1'	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:8:6:U:H2'	38:8:7:U:H6	1.72	0.55
5:S3:27:ARG:HD2	12:C0:60:SER:HB2	1.87	0.55
16:C4:29:HIS:O	16:C4:29:HIS:ND1	2.39	0.55
19:C7:65:PRO:HG3	19:C7:78:ARG:HH21	1.71	0.55
21:C9:16:ASN:CG	21:C9:56:LYS:HZ2	3.11	0.55
26:D4:89:TYR:O	26:D4:92:VAL:HB	2.07	0.55
28:D6:37:LYS:O	28:D6:38:ARG:NH1	2.40	0.55
40:L3:53:MET:CG	40:L3:77:THR:HG23	4.98	0.55
41:L4:58:HIS:C	41:L4:60:THR:H	2.08	0.55
42:L5:261:THR:H	42:L5:264:GLN:CG	2.20	0.55
46:L9:91:ARG:HH21	46:L9:91:ARG:HG3	1.72	0.55
48:M1:160:VAL:O	48:M1:163:PHE:N	2.96	0.55
52:M6:12:LYS:NZ	85:5:3184:A:OP2	291.17	0.55
57:N1:88:ARG:HD3	65:N9:33:LYS:NZ	7.12	0.55
62:N6:71:SER:HB3	62:N6:83:ASP:CG	4.16	0.55
72:O6:21:THR:OG1	72:O6:21:THR:O	2.68	0.55
75:O9:5:LYS:HE3	85:5:1834:U:OP1	113.03	0.55
3:S1:83:LYS:HD2	3:S1:106:THR:H	3.56	0.55
8:S6:55:GLY:O	8:S6:63:MET:HG3	2.07	0.55
36:1:162:G:H2'	36:1:163:C:C6	2.39	0.55
36:1:1720:U:C5	55:M9:124:TYR:CZ	2.94	0.55
36:1:1818:U:O5'	36:1:1818:U:H6	1.90	0.55
36:1:2514:U:H5'	45:L8:68:ARG:HG3	1.89	0.55
36:1:2704:A:C8	36:1:2706:G:C6	2.95	0.55
36:1:2772:C:H4'	36:1:2773:C:C5'	2.37	0.55
36:1:3087:A:OP2	92:1:3711:OHX:N5	2.40	0.55
36:1:406:G:N2	38:4:16:G:O2'	2.39	0.55
36:1:722:G:C5	36:1:723:U:C5	2.95	0.55
1:2:347:G:OP1	13:C1:77:SER:OG	2.22	0.55
85:5:1172:G:N2	85:5:1327:C:O2	2.40	0.55
85:5:1404:G:N2	85:5:1408:G:C4	2.74	0.55
85:5:1847:A:O2'	85:5:1848:G:H5''	2.06	0.55
85:5:412:G:C6	85:5:413:U:C4	2.95	0.55
80:6:1317:C:H2'	80:6:1318:G:O4'	2.07	0.55
80:6:1752:U:OP2	92:6:1915:OHX:N5	2.40	0.55
80:6:539:G:H8	80:6:539:G:OP2	1.90	0.55
80:6:840:U:H2'	80:6:841:U:C6	2.42	0.55
80:6:93:A:H4'	80:6:94:U:OP2	2.06	0.55
14:C2:63:VAL:HG22	14:C2:64:SER:H	1.70	0.55
20:C8:124:GLY:O	20:C8:127:HIS:N	2.40	0.55
30:D8:39:THR:O	30:D8:40:ILE:HD12	5.23	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2550:U:C5	39:L2:40:TYR:CZ	2.94	0.55
39:L2:68:LYS:HG3	39:L2:69:TYR:N	2.96	0.55
40:L3:361:THR:CG2	40:L3:371:GLN:HB3	2.37	0.55
40:L3:57:VAL:HG21	60:N4:15:PRO:HG2	1.88	0.55
41:L4:142:VAL:HB	41:L4:145:ILE:HG12	1.89	0.55
42:L5:230:ASP:O	42:L5:231:ILE:HD13	2.17	0.55
43:L6:52:VAL:HG22	43:L6:67:GLY:HA2	2.64	0.55
41:L4:327:LEU:HD11	44:L7:165:ASP:HA	2.87	0.55
41:L4:330:TYR:CE1	44:L7:49:ALA:HB2	2.84	0.55
45:L8:217:THR:O	45:L8:221:ASN:ND2	4.72	0.55
49:M3:119:TYR:HD1	49:M3:145:PHE:CZ	2.58	0.55
57:N1:70:SER:O	57:N1:70:SER:OG	3.64	0.55
59:N3:71:LYS:HZ2	59:N3:71:LYS:HB3	3.79	0.55
63:N7:102:GLU:OE1	63:N7:103:GLN:N	2.39	0.55
64:N8:60:TYR:CD2	64:N8:63:LYS:HE3	2.41	0.55
67:O1:5:LYS:CB	67:O1:89:LEU:HD21	3.15	0.55
68:O2:121:ASN:OD1	68:O2:121:ASN:N	2.32	0.55
38:4:42:G:OP1	73:O7:60:GLY:N	2.40	0.55
3:S1:109:LYS:HG3	3:S1:113:MET:HE3	1.87	0.55
7:S5:118:LEU:HD23	7:S5:121:ILE:HD12	1.87	0.55
18:C6:95:LYS:O	34:SR:59:ARG:NH2	2.40	0.55
36:1:1310:G:N7	92:1:3560:OHX:N5	2.55	0.55
36:1:239:G:O3'	71:O5:94:LYS:NZ	2.39	0.55
36:1:887:G:C6	36:1:888:A:C6	2.95	0.55
1:2:604:A:OP2	92:2:1988:OHX:N5	2.40	0.55
38:4:104:A:C8	38:4:105:A:C8	2.95	0.55
85:5:953:G:H2'	85:5:1117:G:H5''	1.89	0.55
85:5:1440:G:H2'	85:5:1441:G:H8	1.72	0.55
85:5:1613:A:H2'	85:5:1614:C:H6	1.72	0.55
85:5:1622:U:C2	85:5:1623:G:C8	2.94	0.55
85:5:2656:A:C2	85:5:2658:G:C6	2.95	0.55
85:5:3277:U:H2'	85:5:3278:C:O4'	2.07	0.55
85:5:3362:A:C2	85:5:3363:U:C2	2.94	0.55
85:5:760:G:H1'	85:5:770:G:N2	2.22	0.55
85:5:865:U:C5	85:5:866:A:N7	2.74	0.55
80:6:1274:C:O2	80:6:1274:C:H2'	2.06	0.55
80:6:1585:U:H2'	80:6:1586:A:H8	1.71	0.55
80:6:825:U:O2'	80:6:826:U:H6	1.86	0.55
80:6:926:A:H1'	80:6:988:A:C2	2.42	0.55
38:8:81:U:H1'	38:8:82:U:H6	1.72	0.55
38:8:82:U:O2	38:8:87:G:H4'	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:C5:108:ARG:O	17:C5:110:GLU:N	2.40	0.55
1:2:1308:A:OP1	19:C7:11:ARG:NH1	2.40	0.55
21:C9:76:LEU:HB3	21:C9:80:TYR:CE2	2.42	0.55
24:D2:103:ILE:HA	24:D2:112:ASP:HA	1.90	0.55
40:L3:166:ILE:O	40:L3:169:THR:HB	2.07	0.55
40:L3:239:PRO:HD2	40:L3:242:THR:CG2	3.09	0.55
41:L4:304:GLN:NE2	41:L4:304:GLN:HA	5.11	0.55
42:L5:119:TYR:OH	42:L5:134:ALA:HA	2.06	0.55
44:L7:144:ILE:O	44:L7:148:VAL:HG23	2.69	0.55
47:M0:142:ASP:O	47:M0:144:ASN:N	2.38	0.55
50:M4:99:TRP:NE1	85:5:3206:C:H2'	308.68	0.55
52:M6:72:HIS:O	52:M6:74:ARG:HD3	3.65	0.55
55:M9:17:VAL:HG13	55:M9:18:GLY:N	3.63	0.55
62:N6:57:LEU:HD22	62:N6:58:VAL:N	2.37	0.55
72:O6:56:ARG:O	72:O6:60:LEU:HB2	2.07	0.55
3:S1:62:LYS:O	3:S1:64:ARG:N	2.40	0.55
4:S2:144:TRP:CE2	4:S2:173:PRO:HG3	2.42	0.55
4:S2:56:ILE:CG2	4:S2:61:LEU:HB2	2.36	0.55
7:S5:183:ALA:HA	7:S5:186:ASN:HB3	5.44	0.55
7:S5:63:GLN:HB2	7:S5:89:ILE:HG13	1.89	0.55
1:2:786:A:N3	9:S7:104:ARG:NE	2.52	0.55
9:S7:126:LEU:HD13	9:S7:173:TYR:HD2	2.92	0.55
35:SM:51:ARG:HG3	35:SM:52:PRO:HD2	1.88	0.55
34:SR:260:ILE:HB	34:SR:274:LEU:HB2	2.11	0.55
36:1:198:A:N1	36:1:219:A:C5	2.75	0.54
36:1:244:G:C2	36:1:245:U:H1'	2.42	0.54
36:1:2877:G:H2'	36:1:2878:G:C8	2.42	0.54
36:1:3335:A:C2	36:1:3336:A:C4	2.95	0.54
36:1:1744:G:O6	92:1:3626:OHX:N2	2.40	0.54
1:2:1015:G:H2'	1:2:1016:C:C6	2.42	0.54
1:2:1330:U:O2	1:2:1499:A:H5''	2.06	0.54
1:2:292:U:C4	1:2:293:U:C4	2.95	0.54
37:3:45:A:H2'	37:3:46:A:C8	2.42	0.54
85:5:1085:A:H5''	85:5:1085:A:H8	1.71	0.54
85:5:2608:G:C2	85:5:2609:A:C8	2.94	0.54
85:5:2898:G:OP2	85:5:2899:C:H5'	2.07	0.54
85:5:386:A:C5	85:5:387:A:H1'	2.42	0.54
51:M5:172:ARG:NH2	85:5:63:A:OP1	103.79	0.54
28:D6:10:ARG:NE	80:6:1795:U:O2	327.64	0.54
80:6:946:U:H2'	80:6:947:U:C6	2.42	0.54
1:2:1215:U:H4'	12:C0:2:LEU:HD21	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:C5:29:SER:HG	17:C5:31:GLU:HG3	1.71	0.54
19:C7:104:ASN:OD1	19:C7:105:GLN:NE2	6.68	0.54
19:C7:33:ARG:NH2	34:SR:109:ASP:OD1	2.47	0.54
19:C7:13:SER:HA	19:C7:54:THR:HG22	3.39	0.54
20:C8:81:ILE:HG23	20:C8:82:PRO:HD2	1.90	0.54
20:C8:91:ASP:OD1	20:C8:93:THR:OG1	3.53	0.54
39:L2:83:HIS:CE1	39:L2:86:GLN:HB2	2.42	0.54
40:L3:146:ARG:NH2	40:L3:149:ALA:HB1	2.21	0.54
41:L4:74:ILE:HG22	41:L4:76:ARG:NH1	7.32	0.54
41:L4:94:CYS:HA	85:5:1438:U:H1'	140.01	0.54
45:L8:41:GLN:HG3	45:L8:42:PRO:HD2	2.02	0.54
47:M0:142:ASP:CG	47:M0:178:ARG:HH22	2.74	0.54
51:M5:120:TRP:CE3	85:5:269:G:H5'	132.55	0.54
51:M5:169:LYS:HE3	85:5:63:A:OP1	99.30	0.54
52:M6:48:PHE:CE1	52:M6:52:LEU:HD21	3.18	0.54
52:M6:68:ARG:NH1	85:5:2988:C:P	216.19	0.54
65:N9:31:SER:OG	65:N9:32:LEU:N	3.67	0.54
69:O3:45:LEU:HD23	69:O3:71:VAL:HG12	2.95	0.54
79:Q3:77:ALA:HA	79:Q3:80:ARG:HH21	1.72	0.54
4:S2:56:ILE:HA	4:S2:61:LEU:HD12	1.89	0.54
1:2:1456:U:O2'	7:S5:103:ASN:ND2	2.40	0.54
8:S6:7:TYR:CE1	8:S6:125:THR:HA	3.69	0.54
8:S6:139:ASN:O	8:S6:143:LYS:HD2	3.16	0.54
9:S7:93:LEU:HD21	9:S7:129:LEU:HD23	1.89	0.54
35:SM:64:LYS:O	35:SM:66:ALA:N	3.36	0.54
34:SR:153:GLN:OE1	34:SR:155:ARG:NH2	2.40	0.54
36:1:1128:U:H2'	36:1:1129:A:O4'	2.07	0.54
36:1:1139:G:OP1	44:L7:97:PRO:HG3	2.07	0.54
36:1:2227:C:C2	36:1:2228:A:C8	2.95	0.54
36:1:2286:U:H6	36:1:2286:U:OP1	1.91	0.54
36:1:2534:G:H1	36:1:2545:C:H42	1.55	0.54
36:1:2897:A:OP2	76:Q0:124:LYS:NZ	2.35	0.54
36:1:2943:G:H2'	36:1:2944:U:O4'	2.07	0.54
1:2:1069:A:C6	1:2:1070:A:C6	2.94	0.54
1:2:1222:U:OP1	92:2:2026:OHX:N5	2.40	0.54
1:2:1347:G:H22	21:C9:3:GLY:HA3	1.71	0.54
1:2:1334:G:C2	1:2:1358:A:C2	2.96	0.54
1:2:1411:G:C8	1:2:1411:G:H5'	2.43	0.54
1:2:424:C:O2'	1:2:426:G:OP1	2.24	0.54
1:2:719:C:H42	1:2:720:A:H62	1.54	0.54
85:5:1024:G:N7	85:5:1027:A:N6	2.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:1303:A:O2'	85:5:1304:A:OP2	2.21	0.54
85:5:1317:A:O2'	85:5:1318:A:H3'	2.07	0.54
85:5:1487:G:C5	85:5:1488:G:C8	2.95	0.54
85:5:2124:G:C2	85:5:2125:A:N7	2.76	0.54
85:5:2645:G:C2	85:5:2646:C:C2	2.95	0.54
85:5:309:U:H3	85:5:2780:A:H61	1.53	0.54
85:5:3231:U:H2'	85:5:3232:G:C8	2.41	0.54
92:5:3534:OHX:N5	92:5:3580:OHX:N2	2.55	0.54
16:C4:136:ARG:O	80:6:1006:C:O2'	301.58	0.54
80:6:1316:G:O2'	80:6:1401:A:O2'	2.18	0.54
80:6:1783:C:H2'	80:6:1784:C:H6	1.71	0.54
80:6:432:G:H2'	80:6:433:C:C6	2.42	0.54
80:6:565:C:H5''	80:6:566:C:C6	2.41	0.54
38:8:150:G:N7	92:8:205:OHX:N5	2.56	0.54
1:2:787:A:C2	24:D2:105:THR:HB	2.41	0.54
23:D1:21:ASN:OD1	24:D2:23:ARG:NH2	2.40	0.54
1:2:730:C:H4'	24:D2:80:ASN:ND2	2.21	0.54
1:2:375:U:OP1	25:D3:23:ARG:NH2	2.40	0.54
33:E1:82:LYS:O	33:E1:84:VAL:N	4.76	0.54
41:L4:206:LEU:HD23	41:L4:226:GLU:HB2	3.82	0.54
41:L4:50:TYR:CE2	41:L4:109:TRP:HH2	2.91	0.54
42:L5:90:HIS:HB3	42:L5:226:TYR:CE2	5.55	0.54
42:L5:244:HIS:O	42:L5:248:ARG:HG3	2.07	0.54
42:L5:261:THR:H	42:L5:264:GLN:HG3	1.72	0.54
43:L6:70:LYS:HB3	43:L6:146:ILE:HD11	3.00	0.54
43:L6:39:VAL:O	43:L6:87:THR:HG23	2.06	0.54
44:L7:173:LEU:HD23	44:L7:178:ILE:CG2	2.31	0.54
45:L8:54:GLU:O	45:L8:58:VAL:HG23	2.07	0.54
49:M3:59:ARG:NH1	85:5:73:C:N3	94.54	0.54
53:M7:108:ASP:N	53:M7:152:GLU:OE2	2.79	0.54
62:N6:33:ALA:HB2	62:N6:101:PRO:HB2	2.45	0.54
64:N8:46:ASP:O	64:N8:47:LYS:HB3	2.07	0.54
73:O7:64:MET:O	73:O7:68:LYS:HB3	4.09	0.54
2:S0:119:ARG:HD2	4:S2:240:LEU:HB3	2.42	0.54
2:S0:13:ASP:HA	2:S0:16:LEU:HD12	1.89	0.54
3:S1:146:GLN:O	3:S1:148:ASN:N	3.19	0.54
4:S2:47:ALA:O	4:S2:49:LYS:HG2	2.07	0.54
5:S3:164:VAL:HG13	5:S3:168:ILE:HD11	1.87	0.54
9:S7:140:VAL:HG22	9:S7:150:GLN:HG2	2.45	0.54
36:1:1573:G:C2	36:1:1574:C:H1'	2.43	0.54
36:1:90:C:OP1	64:N8:59:ARG:NH1	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1056:G:H2'	1:2:1057:G:H5''	1.90	0.54
1:2:1546:C:OP1	21:C9:84:LYS:NZ	2.32	0.54
85:5:1070:U:C4	85:5:1071:U:C4	2.95	0.54
85:5:1385:C:C4	85:5:1387:G:C8	2.95	0.54
78:Q2:98:LYS:HD2	85:5:2656:A:H4'	251.21	0.54
85:5:2985:C:H2'	85:5:2986:U:O4'	2.08	0.54
92:5:3555:OHX:N6	92:5:3703:OHX:N6	2.54	0.54
80:6:1244:A:O2'	80:6:1245:G:H4'	2.08	0.54
28:D6:79:ILE:HD12	80:6:1794:A:O2'	331.38	0.54
80:6:74:U:H3'	80:6:75:U:H3'	1.88	0.54
17:C5:85:ILE:HG22	17:C5:112:LEU:HA	1.89	0.54
18:C6:113:ASP:O	18:C6:114:ARG:HB2	2.06	0.54
18:C6:25:GLY:H	18:C6:63:ILE:HA	1.71	0.54
18:C6:52:LEU:HA	18:C6:60:PHE:CZ	4.02	0.54
20:C8:36:LYS:NZ	80:6:1568:C:OP1	333.81	0.54
25:D3:19:ARG:O	25:D3:23:ARG:HG2	3.09	0.54
39:L2:66:PRO:HB2	39:L2:67:TYR:CE2	2.43	0.54
40:L3:204:ALA:O	40:L3:207:SER:OG	2.25	0.54
40:L3:308:MET:HB2	40:L3:363:SER:HB2	1.89	0.54
40:L3:346:THR:O	40:L3:348:ARG:N	2.95	0.54
41:L4:221:ASN:O	41:L4:221:ASN:ND2	2.62	0.54
41:L4:60:THR:HG22	41:L4:61:SER:H	1.72	0.54
42:L5:16:PHE:CE2	85:5:2688:U:C4	292.36	0.54
42:L5:132:THR:HG21	42:L5:170:GLY:HA2	2.29	0.54
44:L7:135:ALA:HB2	44:L7:229:PHE:H	4.81	0.54
46:L9:69:ARG:HD3	46:L9:72:LYS:HD3	2.04	0.54
47:M0:9:TYR:CD1	47:M0:97:LEU:HD13	2.43	0.54
51:M5:178:HIS:CE1	51:M5:179:LYS:HG2	2.42	0.54
49:M3:28:GLN:HB3	51:M5:201:ARG:NH1	2.21	0.54
53:M7:127:ARG:O	53:M7:139:TYR:N	2.77	0.54
55:M9:28:GLU:OE2	92:M9:201:OHX:N5	2.41	0.54
57:N1:111:ALA:O	57:N1:115:LYS:HG3	2.07	0.54
57:N1:84:TYR:HB2	65:N9:24:PRO:HB3	1.90	0.54
59:N3:74:MET:SD	59:N3:102:ILE:HD13	2.47	0.54
70:O4:67:LYS:HD3	85:5:1821:U:N3	169.02	0.54
2:S0:90:ALA:HA	2:S0:95:ALA:HB3	2.19	0.54
4:S2:38:VAL:N	4:S2:65:GLU:OE1	3.71	0.54
6:S4:124:GLY:HA2	6:S4:142:HIS:CE1	2.42	0.54
7:S5:140:THR:HA	7:S5:214:LYS:HD2	2.13	0.54
9:S7:126:LEU:HG	9:S7:152:VAL:HG21	3.68	0.54
11:S9:37:LYS:HB3	32:E0:33:ARG:HB2	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2353:G:C5	36:1:2354:C:C5	2.95	0.54
36:1:2366:C:H2'	36:1:2367:A:C8	2.42	0.54
36:1:3229:G:O2'	50:M4:133:LYS:HG2	2.07	0.54
36:1:3338:C:H2'	36:1:3339:A:H8	1.72	0.54
36:1:406:G:N3	38:4:16:G:C2	2.75	0.54
36:1:670:C:P	54:M8:147:ARG:NH2	2.81	0.54
36:1:677:A:H4'	36:1:678:G:O5'	2.07	0.54
1:2:1102:G:O6	92:2:2029:OHX:N4	2.39	0.54
1:2:1129:G:C6	1:2:1130:A:C6	2.95	0.54
1:2:412:A:H2'	1:2:413:U:C6	2.42	0.54
85:5:2576:G:H2'	85:5:2577:C:C6	2.43	0.54
85:5:2602:G:C5	85:5:2603:G:C8	2.96	0.54
85:5:2822:U:H2'	85:5:2823:G:H8	1.71	0.54
67:O1:25:PHE:CE1	85:5:3056:U:C4	184.30	0.54
85:5:535:G:O6	92:5:3583:OHX:N6	2.41	0.54
85:5:1887:A:OP1	92:5:3612:OHX:N6	2.41	0.54
85:5:1817:G:OP2	92:5:3683:OHX:N2	2.40	0.54
85:5:668:G:C6	85:5:795:G:C2	2.96	0.54
85:5:668:G:C5	85:5:795:G:N2	2.75	0.54
80:6:964:U:H4'	80:6:965:U:O5'	2.07	0.54
12:C0:9:ASN:O	12:C0:13:GLN:HB3	2.08	0.54
18:C6:32:ASN:N	18:C6:67:VAL:O	2.36	0.54
20:C8:16:ARG:HH21	20:C8:21:ASN:HD21	1.55	0.54
22:D0:18:GLN:O	22:D0:96:PRO:HA	2.07	0.54
13:C1:100:TYR:HB2	25:D3:10:ASN:OD1	2.07	0.54
28:D6:58:VAL:HG22	28:D6:59:TYR:H	1.71	0.54
32:E0:13:LYS:O	32:E0:17:GLN:HG2	2.83	0.54
40:L3:167:ARG:O	92:L3:402:OHX:N4	2.41	0.54
41:L4:115:HIS:CG	41:L4:119:ARG:NH1	4.62	0.54
41:L4:269:SER:O	41:L4:270:SER:OG	3.11	0.54
42:L5:126:GLU:HA	42:L5:196:ARG:HD2	1.89	0.54
43:L6:105:TYR:HE1	43:L6:134:ARG:HD2	1.73	0.54
45:L8:97:TYR:OH	45:L8:207:ASP:OD2	2.85	0.54
46:L9:92:TYR:N	46:L9:92:TYR:CD1	2.74	0.54
50:M4:6:ILE:HG22	50:M4:6:ILE:O	2.07	0.54
51:M5:53:TYR:O	51:M5:54:LYS:HD2	2.07	0.54
36:1:523:A:O2'	56:N0:69:PRO:HD2	2.08	0.54
56:N0:89:ASN:HD22	57:N1:155:PRO:HB3	1.70	0.54
61:N5:76:VAL:HG22	61:N5:81:ILE:O	2.07	0.54
62:N6:17:LYS:HD3	62:N6:21:THR:HG21	2.82	0.54
63:N7:36:HIS:HB2	63:N7:40:HIS:CE1	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:N8:25:HIS:O	64:N8:25:HIS:CD2	2.96	0.54
70:O4:81:CYS:O	70:O4:83:ASN:N	2.41	0.54
2:S0:202:TYR:O	2:S0:203:PHE:HB2	2.06	0.54
4:S2:218:ILE:HA	4:S2:221:THR:HG23	1.89	0.54
34:SR:305:TYR:HB2	34:SR:309:VAL:O	2.07	0.54
36:1:1414:G:N7	92:1:3657:OHX:N2	2.55	0.54
36:1:2314:U:O2'	36:1:2315:G:OP1	2.24	0.54
36:1:304:G:H3'	36:1:304:G:OP2	2.07	0.54
36:1:3174:A:C2'	36:1:3175:U:H5'	2.38	0.54
36:1:342:A:C5	36:1:349:A:N7	2.75	0.54
36:1:439:C:H3'	36:1:440:A:C8	2.41	0.54
1:2:1574:C:C2	1:2:1575:A:C8	2.95	0.54
1:2:1791:G:H21	1:2:1802:C:N4	2.06	0.54
1:2:775:U:H3'	1:2:776:A:C8	2.42	0.54
37:3:58:C:H2'	37:3:59:U:H6	1.72	0.54
85:5:1024:G:N2	85:5:1026:A:OP2	2.41	0.54
85:5:1039:U:H2'	85:5:1040:A:C8	2.42	0.54
85:5:136:G:N2	85:5:137:G:C4	2.75	0.54
85:5:1696:A:N6	85:5:1748:G:H2'	2.23	0.54
85:5:1753:G:H1	85:5:1772:U:H3	1.54	0.54
63:N7:135:ARG:NH2	85:5:2557:A:H5'	197.62	0.54
45:L8:242:ALA:N	85:5:2586:G:O6	186.84	0.54
85:5:2949:U:C5	85:5:2950:G:C6	2.96	0.54
85:5:3100:U:O2'	85:5:3101:G:H5''	2.07	0.54
80:6:1120:U:H2'	80:6:1121:C:C6	2.42	0.54
80:6:145:A:O2'	80:6:146:U:OP1	2.22	0.54
80:6:748:U:O2	80:6:802:G:C2	2.61	0.54
13:C1:83:THR:HG21	80:6:325:G:H4'	288.07	0.54
16:C4:133:ARG:HH21	16:C4:136:ARG:NH1	2.04	0.54
19:C7:26:LEU:HD23	19:C7:58:MET:HB3	3.22	0.54
26:D4:8:ARG:NH2	26:D4:10:ARG:HH21	2.05	0.54
20:C8:4:VAL:HG11	27:D5:82:HIS:ND1	2.72	0.54
40:L3:121:ASN:OD1	40:L3:124:LYS:NZ	6.95	0.54
36:1:3096:C:H1'	40:L3:327:CYS:SG	2.48	0.54
41:L4:251:THR:O	41:L4:254:ALA:N	3.04	0.54
45:L8:133:LYS:NZ	85:5:119:U:O3'	103.65	0.54
45:L8:137:ASN:OD1	51:M5:3:ALA:N	2.58	0.54
47:M0:76:MET:SD	47:M0:148:VAL:HG22	4.21	0.54
48:M1:21:ILE:HD12	48:M1:33:ALA:HB1	1.90	0.54
48:M1:29:ARG:HA	48:M1:32:ARG:CZ	2.95	0.54
48:M1:89:TYR:O	48:M1:169:ALA:HB1	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:M7:31:GLU:OE2	53:M7:61:ARG:N	3.11	0.54
56:N0:115:ARG:NH2	85:5:1320:C:O2	288.50	0.54
1:2:1707:U:H4'	60:N4:47:ARG:HH12	1.73	0.54
62:N6:58:VAL:HB	62:N6:63:LYS:O	2.07	0.54
63:N7:97:SER:N	63:N7:100:THR:OG1	2.39	0.54
97:1:3403:SPS:C8	98:P:101:8AN:H8	2.26	0.54
79:Q3:42:CYS:CB	79:Q3:60:CYS:SG	3.67	0.54
1:2:1420:U:H5'	5:S3:176:LEU:HD23	1.90	0.54
6:S4:131:LEU:CD1	6:S4:135:GLY:HA2	2.78	0.54
6:S4:246:LEU:HB2	6:S4:251:GLU:HG3	1.89	0.54
9:S7:182:VAL:HG12	9:S7:183:PHE:H	1.73	0.54
9:S7:89:HIS:CG	9:S7:165:LYS:HG2	3.69	0.54
10:S8:187:GLU:O	10:S8:190:ALA:N	2.41	0.54
10:S8:2:GLY:N	80:6:393:C:OP2	291.37	0.54
34:SR:32:LEU:HD21	34:SR:94:VAL:HG11	3.01	0.54
36:1:213:A:C5	36:1:214:G:C8	2.95	0.54
36:1:2635:A:H4'	36:1:2636:A:O5'	2.07	0.54
36:1:116:A:H5''	36:1:265:A:H2	1.73	0.54
36:1:2961:G:N1	36:1:2972:G:O6	2.41	0.54
36:1:3049:A:OP2	92:1:3711:OHX:N3	2.41	0.54
1:2:138:A:O2'	8:S6:149:LYS:NZ	2.41	0.54
1:2:656:G:O2'	1:2:657:U:O4'	2.24	0.54
45:L8:129:PRO:HB3	85:5:121:A:C2	102.18	0.54
85:5:192:C:H2'	85:5:193:C:C6	2.43	0.54
85:5:3096:C:H2'	85:5:3097:C:C6	2.43	0.54
85:5:3255:U:H2'	85:5:3256:G:C8	2.43	0.54
85:5:3284:G:OP2	85:5:3284:G:H8	1.89	0.54
92:5:3565:OHX:N4	92:5:3574:OHX:N3	2.55	0.54
85:5:1754:G:OP1	92:5:3576:OHX:N1	2.41	0.54
25:D3:114:LYS:HE2	80:6:571:G:C5'	362.95	0.54
80:6:647:G:N2	80:6:687:G:N2	2.55	0.54
80:6:775:G:N2	80:6:786:C:N3	2.55	0.54
37:7:47:C:H2'	37:7:48:U:H6	1.72	0.54
37:7:57:G:C8	37:7:58:C:C5	2.96	0.54
14:C2:131:ASP:OD1	14:C2:132:GLU:N	2.41	0.54
15:C3:66:ILE:HG13	15:C3:67:THR:HG23	2.07	0.54
16:C4:86:THR:HB	16:C4:91:THR:HG22	3.69	0.54
17:C5:123:TYR:HH	20:C8:122:HIS:HE2	1.48	0.54
23:D1:58:TYR:O	23:D1:61:SER:OG	2.25	0.54
25:D3:114:LYS:HE2	80:6:571:G:H5'	362.95	0.54
26:D4:20:ARG:HD3	26:D4:76:TYR:CE2	3.63	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D8:25:VAL:HG13	30:D8:44:VAL:O	2.28	0.54
32:E0:31:LYS:HG2	80:6:477:A:OP1	423.51	0.54
40:L3:328:ILE:HG12	40:L3:329:PRO:HD2	2.03	0.54
40:L3:3:HIS:O	40:L3:4:ARG:O	2.26	0.54
43:L6:42:LEU:HD23	43:L6:84:VAL:HG13	4.66	0.54
51:M5:168:GLY:C	51:M5:170:LYS:N	2.94	0.54
55:M9:102:LEU:HD22	55:M9:138:LEU:HD12	1.90	0.54
44:L7:80:GLN:OE1	57:N1:136:ARG:HG2	2.08	0.54
60:N4:49:ILE:O	60:N4:52:THR:OG1	2.25	0.54
61:N5:137:ASN:OD1	61:N5:137:ASN:N	2.35	0.54
62:N6:37:LYS:HD3	62:N6:37:LYS:H	2.16	0.54
65:N9:28:LYS:HD2	65:N9:29:TYR:CD1	2.43	0.54
70:O4:51:LEU:HD23	70:O4:51:LEU:H	1.73	0.54
71:O5:59:ASN:OD1	71:O5:63:ARG:HG3	2.07	0.54
74:O8:43:PHE:O	74:O8:53:THR:HA	2.07	0.54
91:P:75:C:C3'	98:P:101:8AN:O4'	2.56	0.54
78:Q2:19:LYS:O	78:Q2:21:THR:HG23	2.07	0.54
78:Q2:10:THR:HA	78:Q2:20:HIS:CD2	3.30	0.54
1:2:744:G:H4'	11:S9:72:GLU:OE1	2.08	0.54
36:1:198:A:C6	36:1:219:A:C5	2.96	0.54
36:1:2261:G:H21	36:1:2262:A:H62	1.55	0.54
36:1:2676:A:N6	48:M1:22:SER:O	2.41	0.54
36:1:2699:G:H5'	36:1:2700:G:OP2	2.07	0.54
1:2:1053:C:H2'	1:2:1054:U:C6	2.43	0.54
1:2:1264:G:OP1	22:D0:78:THR:HG21	2.07	0.54
1:2:154:G:H8	1:2:154:G:O5'	1.91	0.54
1:2:1604:U:H2'	1:2:1605:G:H8	1.72	0.54
85:5:1517:G:H2'	85:5:1518:U:H6	1.73	0.54
39:L2:182:ALA:HB2	85:5:2148:U:O2'	210.79	0.54
39:L2:21:ARG:HD3	85:5:824:C:H5''	170.42	0.54
80:6:55:A:H61	80:6:403:G:H1'	1.72	0.54
80:6:546:U:H2'	80:6:547:U:H6	1.72	0.54
80:6:689:G:H2'	80:6:690:G:O4'	2.07	0.54
12:C0:55:VAL:HB	12:C0:68:LEU:HD12	3.30	0.54
19:C7:27:ASP:HB3	19:C7:30:THR:OG1	2.08	0.54
20:C8:112:ASP:O	20:C8:115:ARG:HB3	2.30	0.54
7:S5:161:ASP:OD2	30:D8:42:ARG:NH1	4.34	0.54
41:L4:263:GLY:HA2	41:L4:268:ALA:O	2.18	0.54
41:L4:60:THR:HG22	41:L4:62:ALA:H	2.98	0.54
36:1:8:C:H4'	45:L8:183:LYS:NZ	2.22	0.54
47:M0:169:LYS:HD2	57:N1:160:ILE:O	7.14	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:M0:77:THR:O	47:M0:79:VAL:N	2.41	0.54
49:M3:175:SER:O	49:M3:178:LYS:N	2.41	0.54
52:M6:65:ASN:O	52:M6:67:THR:N	2.51	0.54
54:M8:133:LYS:HB2	54:M8:135:GLN:HE22	1.99	0.54
58:N2:93:ILE:HG21	58:N2:105:LEU:HD23	1.88	0.54
58:N2:51:GLY:C	58:N2:53:ALA:H	2.11	0.54
63:N7:6:LYS:O	63:N7:8:GLY:N	2.41	0.54
66:O0:30:THR:CG2	66:O0:91:SER:HB2	2.69	0.54
67:O1:41:LYS:HZ1	67:O1:47:ASP:CG	3.33	0.54
36:1:3120:C:C4	76:Q0:111:ARG:NH1	2.76	0.54
7:S5:162:VAL:HG22	7:S5:167:ARG:HG2	3.02	0.54
8:S6:20:ASP:HB3	8:S6:23:ARG:HD2	4.40	0.54
1:2:746:G:OP2	11:S9:79:ARG:HD3	2.08	0.54
36:1:2167:A:H8	36:1:2167:A:O5'	1.90	0.54
36:1:2724:U:OP1	57:N1:57:TYR:OH	2.24	0.54
36:1:2794:G:N7	92:1:3471:OHX:N2	2.55	0.54
36:1:2869:U:H5''	36:1:2870:C:OP2	2.08	0.54
36:1:577:C:OP1	44:L7:142:SER:OG	2.25	0.54
36:1:6:A:C2	38:4:154:C:C2	2.95	0.54
1:2:1318:U:H2'	1:2:1319:A:H8	1.72	0.54
1:2:16:G:H2'	1:2:17:C:C6	2.43	0.54
1:2:956:A:H2'	1:2:957:A:C8	2.40	0.54
85:5:1498:A:H2'	85:5:1499:C:H6	1.73	0.54
85:5:2242:A:OP2	92:5:3677:OHX:N5	2.40	0.54
39:L2:70:ARG:NH2	85:5:2522:G:N1	174.14	0.54
48:M1:65:ILE:HD12	85:5:2681:U:H5'	299.63	0.54
85:5:287:G:H2'	85:5:288:C:C6	2.42	0.54
52:M6:68:ARG:HH12	85:5:2988:C:P	215.36	0.54
85:5:3287:U:C2'	85:5:3288:G:H5'	2.37	0.54
85:5:655:C:H2'	85:5:656:A:C8	2.42	0.54
73:O7:10:LYS:NZ	85:5:819:U:OP1	164.25	0.54
80:6:1742:U:H2'	80:6:1743:U:H6	1.73	0.54
80:6:441:A:OP2	80:6:459:G:N1	2.36	0.54
80:6:822:U:N3	80:6:823:G:C2	2.75	0.54
80:6:837:G:H2'	80:6:838:G:C8	2.43	0.54
38:8:157:U:H3'	38:8:158:U:H3'	1.90	0.54
38:8:2:A:OP2	92:8:201:OHX:N2	2.41	0.54
17:C5:96:ILE:HD13	17:C5:116:LEU:HB3	3.28	0.54
24:D2:87:GLU:O	24:D2:90:THR:OG1	2.23	0.54
31:D9:25:SER:HB2	92:D9:102:OHX:N4	2.23	0.54
32:E0:55:ARG:NH1	32:E0:58:PRO:HB3	2.19	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:L2:118:GLU:HG2	39:L2:156:LYS:NZ	2.22	0.54
45:L8:243:GLN:O	45:L8:246:MET:N	2.36	0.54
46:L9:135:GLU:O	46:L9:136:PHE:CD2	4.17	0.54
47:M0:156:ARG:O	47:M0:158:LYS:N	2.53	0.54
51:M5:150:TRP:CH2	51:M5:151:ILE:HG12	2.42	0.54
55:M9:6:THR:HG22	55:M9:10:LEU:HD22	2.81	0.54
56:N0:65:ASN:N	56:N0:65:ASN:OD1	2.96	0.54
50:M4:43:LYS:NZ	56:N0:96:ASP:OD2	3.40	0.54
58:N2:22:PRO:HB2	58:N2:28:PHE:HB2	2.10	0.54
64:N8:49:HIS:N	64:N8:50:PRO:HD3	2.69	0.54
4:S2:227:PRO:O	4:S2:230:TRP:HB2	2.74	0.54
5:S3:115:ILE:HG21	35:SM:110:TRP:HA	1.89	0.54
7:S5:146:THR:HG23	7:S5:157:ARG:HB3	4.06	0.54
36:1:1158:A:O5'	36:1:1158:A:H8	1.90	0.54
36:1:1756:C:N4	36:1:1769:G:H1	2.05	0.54
36:1:1807:G:H5'	63:N7:135:ARG:HH22	1.73	0.54
36:1:1879:A:H4'	36:1:1880:U:OP2	2.08	0.54
36:1:2252:A:H61	36:1:2264:U:H3	1.56	0.54
36:1:600:G:H5'	36:1:601:U:OP2	2.08	0.54
36:1:773:G:N2	36:1:774:G:H1'	2.23	0.54
1:2:1604:U:H2'	1:2:1605:G:C8	2.43	0.54
1:2:327:U:H2'	1:2:328:A:C8	2.43	0.54
1:2:480:G:H22	1:2:509:G:H1'	1.71	0.54
37:3:97:A:H2'	37:3:98:C:H6	1.73	0.54
85:5:229:G:C2	85:5:230:U:C2	2.96	0.54
46:L9:96:HIS:CE1	85:5:3024:A:H5'	337.03	0.54
85:5:3167:A:O2'	85:5:3168:A:OP1	2.22	0.54
85:5:618:C:O2'	85:5:621:A:N3	2.32	0.54
85:5:989:A:H2'	85:5:990:U:O4'	2.07	0.54
80:6:1015:U:OP1	92:6:1910:OHX:N3	2.41	0.54
80:6:1255:G:O2'	80:6:1256:A:H8	1.89	0.54
80:6:257:A:C2	80:6:258:C:C2	2.95	0.54
80:6:477:A:N7	80:6:538:A:N1	2.56	0.54
15:C3:132:VAL:HG23	15:C3:134:VAL:HG13	1.88	0.54
23:D1:5:LYS:H	23:D1:5:LYS:HD3	1.72	0.54
1:2:847:U:O2	29:D7:21:LEU:HB3	2.08	0.54
29:D7:28:PRO:O	29:D7:29:ARG:HD3	2.08	0.54
7:S5:161:ASP:O	30:D8:44:VAL:HA	2.08	0.54
39:L2:30:ARG:HH22	39:L2:33:ASP:CG	3.35	0.54
42:L5:151:GLN:HG3	42:L5:159:VAL:HG21	1.90	0.54
42:L5:268:GLU:O	42:L5:270:LYS:N	3.39	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:L8:48:ARG:NH2	85:5:2526:C:C2	186.95	0.54
46:L9:150:SER:HB3	46:L9:153:ASP:HB2	2.23	0.54
52:M6:142:SER:O	52:M6:145:VAL:N	3.39	0.54
52:M6:72:HIS:O	52:M6:74:ARG:NH1	2.40	0.54
53:M7:50:GLN:OE1	53:M7:56:ARG:HD3	2.08	0.54
44:L7:100:ARG:NH2	54:M8:4:ASP:OD1	2.90	0.54
56:N0:12:ARG:HD2	56:N0:22:PRO:HG2	3.17	0.54
56:N0:98:SER:OG	56:N0:98:SER:O	2.55	0.54
71:O5:6:ALA:HB1	71:O5:10:ARG:NH2	2.35	0.54
73:O7:39:TYR:CD2	73:O7:40:PRO:HA	2.68	0.54
3:S1:124:ASN:N	3:S1:124:ASN:OD1	2.40	0.54
3:S1:158:SER:HA	3:S1:161:ILE:HD12	2.21	0.54
4:S2:121:VAL:O	4:S2:125:ILE:HG13	2.06	0.54
36:1:1245:A:N6	36:1:1272:C:O2'	2.41	0.54
36:1:185:C:H2'	36:1:186:U:H6	1.73	0.54
36:1:2168:A:C6	36:1:2170:U:H1'	2.43	0.54
36:1:3169:U:H2'	36:1:3170:A:O4'	2.08	0.54
36:1:3280:U:O2'	36:1:3281:U:H5'	2.08	0.54
36:1:3389:U:HO2'	36:1:3390:G:P	2.31	0.54
36:1:692:A:C4	36:1:693:A:C8	2.96	0.54
36:1:749:C:H6	36:1:749:C:O5'	1.91	0.54
36:1:677:A:H2'	36:1:785:G:O6	2.08	0.54
1:2:1499:A:HO2'	1:2:1500:U:P	2.31	0.54
1:2:1637:G:C6	1:2:1728:G:C6	2.96	0.54
1:2:321:C:N4	1:2:1650:A:OP1	2.41	0.54
85:5:1019:G:O6	92:5:3731:OHX:N1	2.40	0.54
85:5:1576:G:H5'	85:5:1577:G:OP2	2.08	0.54
85:5:1782:U:H2'	85:5:1783:U:C6	2.43	0.54
85:5:209:A:O2'	85:5:211:A:OP2	2.19	0.54
85:5:2209:U:H4'	85:5:2210:G:OP1	2.07	0.54
85:5:2257:C:H6	85:5:2257:C:O5'	1.91	0.54
85:5:235:A:H2'	85:5:236:G:O4'	2.07	0.54
85:5:2651:G:H4'	85:5:2652:U:OP2	2.07	0.54
15:C3:151:ASN:C	92:C3:201:OHX:N6	2.73	0.54
15:C3:41:ALA:O	15:C3:44:GLY:N	2.40	0.54
16:C4:29:HIS:HB3	16:C4:41:ARG:HG3	1.90	0.54
22:D0:56:VAL:O	22:D0:89:ARG:HG3	2.08	0.54
26:D4:127:LYS:HG3	26:D4:128:LYS:N	2.22	0.54
27:D5:54:VAL:HG13	27:D5:57:TYR:CD1	2.43	0.54
33:E1:147:VAL:HG12	33:E1:148:TYR:CG	2.43	0.54
44:L7:190:THR:O	44:L7:192:GLY:N	3.57	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:L9:92:TYR:N	46:L9:92:TYR:CD2	3.89	0.54
47:M0:42:THR:O	47:M0:139:ARG:NH2	3.20	0.54
50:M4:113:THR:HG22	50:M4:115:PHE:H	1.73	0.54
51:M5:31:ARG:NH1	51:M5:124:ASP:OD1	2.41	0.54
52:M6:3:VAL:HG13	52:M6:4:GLU:CG	2.38	0.54
62:N6:120:GLN:OE1	62:N6:126:LEU:HD23	2.43	0.54
62:N6:82:VAL:HG12	62:N6:82:VAL:O	2.41	0.54
63:N7:61:LYS:O	63:N7:64:LYS:N	2.77	0.54
66:O0:73:GLY:O	66:O0:76:GLU:HG2	2.07	0.54
67:O1:98:VAL:HG22	67:O1:99:ALA:N	2.22	0.54
68:O2:60:ASN:OD1	68:O2:61:LYS:N	2.40	0.54
70:O4:44:CYS:HB2	70:O4:81:CYS:HB3	1.90	0.54
70:O4:96:GLU:OE1	70:O4:99:LYS:NZ	2.72	0.54
4:S2:49:LYS:HE3	4:S2:246:GLU:OE1	2.24	0.54
6:S4:130:GLN:HG2	6:S4:138:TYR:CE2	5.41	0.54
6:S4:79:ASP:HB3	6:S4:82:TYR:HB2	1.89	0.54
8:S6:78:THR:HG23	8:S6:92:ARG:HG2	2.95	0.54
4:S2:175:GLY:HA3	11:S9:97:LEU:O	2.52	0.54
35:SM:102:THR:OG1	35:SM:103:LYS:N	2.40	0.54
36:1:1148:G:N7	92:1:3697:OHX:N6	2.55	0.53
36:1:3049:A:N3	40:L3:75:ALA:HB2	2.22	0.53
1:2:1190:C:H42	1:2:1439:C:N4	1.99	0.53
1:2:1263:C:H2'	1:2:1264:G:H8	1.72	0.53
1:2:1640:U:H4'	1:2:1641:G:O5'	2.08	0.53
1:2:522:U:OP1	26:D4:37:LYS:HB2	2.07	0.53
1:2:895:U:H4'	1:2:896:G:H3'	1.90	0.53
85:5:1632:A:C6	85:5:1633:C:N4	2.77	0.53
85:5:2786:G:N2	85:5:2787:G:H1'	2.22	0.53
85:5:3163:A:C6	85:5:3288:G:O6	2.61	0.53
53:M7:3:ARG:NH2	85:5:398:A:N7	127.40	0.53
85:5:437:G:H1	85:5:622:A:H61	1.55	0.53
49:M3:59:ARG:HD3	85:5:73:C:C2	92.52	0.53
80:6:1590:G:H2'	80:6:1591:C:C6	2.43	0.53
80:6:188:A:H2'	80:6:189:C:O4'	2.07	0.53
14:C2:103:LEU:HD23	14:C2:115:VAL:HA	2.23	0.53
1:2:945:C:OP1	15:C3:70:LYS:HB3	2.07	0.53
16:C4:19:ILE:HG23	16:C4:28:VAL:HG22	1.89	0.53
20:C8:64:GLU:O	20:C8:68:ARG:HG3	2.31	0.53
26:D4:27:VAL:HG11	26:D4:35:VAL:CG1	2.72	0.53
28:D6:42:ARG:O	28:D6:66:LYS:HB3	2.07	0.53
28:D6:74:CYS:SG	28:D6:77:CYS:CB	2.96	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:132:LYS:HE3	85:5:3151:U:OP1	208.12	0.53
41:L4:175:HIS:O	41:L4:178:LEU:N	2.40	0.53
41:L4:94:CYS:O	41:L4:96:GLY:N	2.41	0.53
42:L5:64:ILE:CG2	42:L5:75:LEU:HB3	2.38	0.53
42:L5:99:TYR:HA	42:L5:161:GLY:O	2.91	0.53
44:L7:83:LEU:HD23	44:L7:84:VAL:N	3.99	0.53
45:L8:109:LEU:O	45:L8:113:ALA:N	2.41	0.53
45:L8:97:TYR:O	45:L8:132:VAL:HG12	2.08	0.53
45:L8:50:VAL:HB	45:L8:52:TRP:NE1	3.78	0.53
46:L9:87:LYS:HZ2	46:L9:191:LEU:HD11	14.64	0.53
49:M3:158:ALA:O	49:M3:160:GLN:HG2	2.71	0.53
49:M3:162:ASN:ND2	49:M3:164:GLU:OE1	5.74	0.53
50:M4:120:VAL:O	50:M4:124:ARG:HB2	2.77	0.53
52:M6:8:VAL:HG22	52:M6:34:VAL:HG22	1.90	0.53
53:M7:20:SER:O	53:M7:22:LEU:HD23	2.08	0.53
53:M7:48:LEU:HD22	53:M7:88:VAL:HG13	3.05	0.53
56:N0:128:GLU:HG2	56:N0:128:GLU:O	2.69	0.53
56:N0:87:THR:C	56:N0:88:HIS:ND1	2.60	0.53
61:N5:96:LYS:HE3	61:N5:107:VAL:HB	1.90	0.53
38:4:83:C:H42	62:N6:52:ARG:HH22	1.55	0.53
64:N8:4:ARG:NH1	64:N8:5:PHE:CZ	2.76	0.53
64:N8:65:GLN:C	64:N8:67:HIS:H	2.05	0.53
66:O0:36:GLN:OE1	66:O0:38:LYS:HD2	2.08	0.53
79:Q3:13:LYS:HD2	79:Q3:14:TYR:CZ	2.43	0.53
3:S1:178:GLY:O	3:S1:179:SER:HB2	3.45	0.53
6:S4:184:THR:C	6:S4:189:LEU:HD13	3.05	0.53
6:S4:187:ARG:HH22	80:6:753:A:H62	374.95	0.53
6:S4:184:THR:O	6:S4:189:LEU:HD13	3.96	0.53
10:S8:138:ASN:ND2	80:6:197:A:H61	277.45	0.53
36:1:2585:G:C2	38:4:151:C:H5	2.26	0.53
36:1:2523:A:C2	36:1:2587:U:C4	2.96	0.53
36:1:2751:G:N7	92:1:3640:OHX:N6	2.57	0.53
36:1:621:A:N6	92:1:3720:OHX:N4	2.52	0.53
36:1:589:A:C8	36:1:610:G:C4	2.96	0.53
36:1:64:G:H1	36:1:322:U:H2'	1.73	0.53
1:2:1095:G:OP2	1:2:1096:A:O2'	2.15	0.53
1:2:1217:A:OP2	92:2:2035:OHX:N3	2.41	0.53
1:2:582:U:H3'	1:2:583:C:H6	1.72	0.53
38:4:46:G:C5	38:4:47:C:C5	2.96	0.53
85:5:1517:G:O2'	85:5:1518:U:H5'	2.08	0.53
85:5:240:U:O2'	85:5:241:G:H8	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:2437:G:H1	85:5:2510:U:H3	1.54	0.53
85:5:2842:U:C5	85:5:2843:U:C5	2.96	0.53
85:5:3107:U:H2'	85:5:3108:G:C8	2.43	0.53
40:L3:366:GLY:HA3	85:5:3330:A:H4'	218.98	0.53
85:5:3343:G:O2'	85:5:3362:A:N6	2.40	0.53
92:5:3576:OHX:N5	92:5:3634:OHX:N2	2.56	0.53
92:5:3534:OHX:N3	92:5:3580:OHX:N6	2.56	0.53
80:6:1045:C:H2'	80:6:1046:G:C8	2.43	0.53
80:6:63:G:H4'	80:6:170:U:H5	1.73	0.53
80:6:21:U:H2'	80:6:22:A:C8	2.43	0.53
80:6:235:G:H2'	80:6:236:A:C8	2.42	0.53
17:C5:85:ILE:HG22	17:C5:112:LEU:HD23	1.89	0.53
21:C9:76:LEU:HD22	21:C9:80:TYR:CE2	2.43	0.53
25:D3:48:HIS:HB3	25:D3:103:LEU:HD21	2.50	0.53
39:L2:209:HIS:HD2	39:L2:210:PRO:N	2.06	0.53
40:L3:77:THR:HG23	40:L3:326:GLY:O	2.09	0.53
44:L7:191:VAL:HG12	44:L7:192:GLY:N	4.00	0.53
44:L7:89:ILE:HG22	44:L7:220:PHE:CE1	2.43	0.53
45:L8:166:LEU:HB2	45:L8:167:PRO:HD3	2.20	0.53
46:L9:114:VAL:N	46:L9:124:ARG:O	2.39	0.53
46:L9:88:TYR:CZ	46:L9:184:LYS:HD3	2.79	0.53
47:M0:150:GLU:O	47:M0:150:GLU:HG3	2.08	0.53
47:M0:47:PRO:HB3	47:M0:171:TRP:CE2	2.51	0.53
48:M1:116:TYR:CE1	48:M1:118:PRO:HA	2.43	0.53
49:M3:85:LEU:HD23	49:M3:85:LEU:N	2.57	0.53
58:N2:18:ASP:OD2	58:N2:20:SER:OG	2.23	0.53
64:N8:47:LYS:HE2	64:N8:48:TYR:CE2	2.43	0.53
54:M8:178:ARG:HG2	64:N8:51:GLY:HA3	3.15	0.53
65:N9:7:HIS:CD2	65:N9:8:THR:N	2.76	0.53
76:Q0:110:CYS:SG	76:Q0:111:ARG:N	3.31	0.53
78:Q2:12:CYS:SG	78:Q2:74:CYS:HB2	2.78	0.53
2:S0:10:THR:OG1	2:S0:13:ASP:OD2	2.25	0.53
2:S0:57:LEU:O	2:S0:60:ALA:HB3	2.20	0.53
3:S1:70:LEU:HA	3:S1:73:LEU:HG	1.89	0.53
4:S2:90:THR:C	4:S2:92:ALA:H	2.12	0.53
6:S4:10:LYS:O	6:S4:12:LEU:N	2.95	0.53
6:S4:173:ILE:HG22	6:S4:174:LYS:O	2.08	0.53
6:S4:66:MET:HG3	80:6:454:U:C6	372.76	0.53
1:2:742:U:H5''	92:S9:201:OHX:N4	2.23	0.53
36:1:1128:U:OP1	47:M0:4:ARG:NH2	2.32	0.53
36:1:1282:G:H2'	36:1:1283:C:O4'	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:239:G:H8	36:1:239:G:O5'	1.91	0.53
36:1:2573:G:OP2	36:1:2573:G:H8	1.91	0.53
36:1:3107:U:OP2	76:Q0:112:LYS:HE3	2.08	0.53
92:1:3600:OHX:N5	92:1:3648:OHX:N2	2.56	0.53
1:2:419:G:C6	1:2:420:A:C5	2.96	0.53
37:3:16:U:O2'	37:3:17:A:H5'	2.06	0.53
37:3:57:G:H3'	37:3:58:C:H6	1.73	0.53
85:5:1462:A:C5	85:5:1463:U:C5	2.97	0.53
85:5:823:C:HO2'	85:5:1535:A:HO2'	1.55	0.53
85:5:2315:G:OP2	92:5:3475:OHX:N6	2.40	0.53
42:L5:23:ARG:NH2	85:5:2703:A:OP2	283.47	0.53
85:5:2921:U:H2'	85:5:2923:U:OP2	2.08	0.53
92:5:3625:OHX:N3	92:5:3643:OHX:N5	2.56	0.53
85:5:950:G:C2	85:5:1370:G:O6	2.61	0.53
80:6:837:G:C6	92:6:1955:OHX:N1	2.75	0.53
80:6:651:G:O2'	92:6:2016:OHX:N3	2.41	0.53
80:6:678:A:H2'	80:6:679:U:O4'	2.08	0.53
80:6:72:A:H2'	80:6:73:U:O4'	2.08	0.53
80:6:770:A:OP2	92:6:1990:OHX:N3	2.40	0.53
15:C3:12:SER:HB3	80:6:956:C:O5'	334.63	0.53
16:C4:81:VAL:HG22	16:C4:115:ILE:HG21	1.89	0.53
18:C6:97:VAL:HG22	18:C6:98:ASP:N	2.24	0.53
21:C9:76:LEU:HD22	21:C9:80:TYR:HE2	1.72	0.53
4:S2:230:TRP:CE2	24:D2:68:ARG:HD2	3.79	0.53
25:D3:6:PRO:HG3	25:D3:14:LYS:HG2	1.89	0.53
31:D9:31:ILE:N	31:D9:38:ILE:O	3.20	0.53
40:L3:46:PHE:CZ	40:L3:84:VAL:HG13	2.42	0.53
42:L5:88:ILE:HG12	42:L5:240:TYR:HE1	1.74	0.53
42:L5:8:LYS:HE2	37:7:15:C:H4'	310.31	0.53
44:L7:136:TYR:CZ	44:L7:231:ASN:HB2	2.49	0.53
44:L7:153:PHE:HD2	44:L7:153:PHE:N	2.21	0.53
45:L8:152:LEU:HB3	45:L8:180:VAL:CG2	2.71	0.53
46:L9:92:TYR:CZ	46:L9:101:VAL:HG21	2.44	0.53
46:L9:101:VAL:HG12	46:L9:136:PHE:HE1	1.73	0.53
51:M5:163:GLY:O	51:M5:172:ARG:NH1	2.41	0.53
36:1:3308:C:O2	53:M7:69:ARG:HD3	2.08	0.53
55:M9:123:LEU:O	55:M9:126:GLU:N	2.58	0.53
58:N2:35:LYS:O	58:N2:38:ILE:N	2.95	0.53
59:N3:33:ASN:HD21	59:N3:63:LYS:HB2	1.73	0.53
60:N4:47:ARG:O	60:N4:55:PHE:HD2	2.28	0.53
36:1:2741:C:O2'	78:Q2:20:HIS:ND1	2.29	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1310:C:HO2'	5:S3:159:HIS:HD1	1.50	0.53
5:S3:52:ALA:O	5:S3:91:VAL:HG22	2.08	0.53
7:S5:26:ALA:HB3	18:C6:28:LEU:N	2.97	0.53
9:S7:55:LYS:HE3	9:S7:87:ASP:HA	3.59	0.53
36:1:1107:C:H2'	36:1:1108:U:C6	2.43	0.53
36:1:1400:G:C2	36:1:1401:A:C8	2.96	0.53
36:1:1582:C:O2'	36:1:1583:A:O5'	2.21	0.53
36:1:1598:G:OP2	70:O4:31:ARG:NH2	2.36	0.53
36:1:2380:U:C2	36:1:2381:G:C8	2.97	0.53
36:1:2419:A:C2	36:1:2420:C:C2	2.97	0.53
36:1:3171:U:H3	36:1:3279:A:H61	1.56	0.53
36:1:863:C:OP1	92:1:3419:OHX:N2	2.41	0.53
36:1:539:C:H2'	36:1:540:U:H6	1.72	0.53
36:1:978:G:O2'	36:1:979:U:O2	2.23	0.53
1:2:1286:U:OP2	92:2:2040:OHX:N4	2.41	0.53
38:4:83:C:H42	62:N6:52:ARG:NH2	2.07	0.53
85:5:1440:G:H2'	85:5:1441:G:C8	2.43	0.53
63:N7:17:ARG:NH2	85:5:1634:G:N7	198.30	0.53
85:5:1877:U:H5''	85:5:1878:G:C5'	2.38	0.53
40:L3:240:ARG:NH2	85:5:1907:C:O2	216.60	0.53
57:N1:57:TYR:OH	85:5:2724:U:OP1	222.95	0.53
85:5:2823:G:O6	92:5:3456:OHX:N4	2.42	0.53
85:5:2838:A:C2	85:5:2851:A:C4	2.96	0.53
80:6:1150:G:H5''	80:6:1151:A:O5'	2.09	0.53
80:6:243:G:N2	80:6:251:A:C5	2.76	0.53
12:C0:15:LEU:HD13	12:C0:21:VAL:HG23	1.89	0.53
13:C1:27:THR:OG1	13:C1:29:LYS:HG2	2.08	0.53
15:C3:67:THR:O	15:C3:69:ASN:N	2.40	0.53
16:C4:123:SER:HB2	80:6:885:G:H21	286.88	0.53
18:C6:6:SER:HA	18:C6:23:LYS:HA	2.11	0.53
19:C7:104:ASN:O	19:C7:107:SER:OG	2.23	0.53
5:S3:211:PRO:HG3	19:C7:20:TYR:CE1	2.43	0.53
20:C8:46:VAL:HG21	20:C8:73:MET:HG2	1.91	0.53
26:D4:8:ARG:HB2	26:D4:26:ASP:HB3	1.90	0.53
27:D5:49:ARG:O	27:D5:53:GLU:HB2	2.33	0.53
39:L2:149:ARG:NH2	39:L2:253:GLN:HA	5.06	0.53
40:L3:123:TYR:CZ	40:L3:124:LYS:HG3	2.43	0.53
40:L3:4:ARG:CD	40:L3:7:GLU:HA	2.39	0.53
41:L4:191:LYS:HB2	41:L4:194:TYR:CZ	4.38	0.53
42:L5:134:ALA:HB2	42:L5:141:PRO:HD3	2.28	0.53
45:L8:148:ALA:HA	45:L8:201:THR:CG2	2.36	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:L9:129:ARG:HB2	46:L9:132:VAL:CG1	2.38	0.53
47:M0:211:ARG:O	47:M0:214:PRO:HG3	2.08	0.53
48:M1:29:ARG:HA	48:M1:32:ARG:NH2	2.52	0.53
51:M5:172:ARG:HD2	85:5:30:G:O5'	111.42	0.53
52:M6:156:LEU:HD13	85:5:3243:A:C8	262.85	0.53
54:M8:170:ARG:O	54:M8:171:LYS:HB2	2.29	0.53
46:L9:3:TYR:HA	56:N0:142:GLN:OE1	2.08	0.53
58:N2:33:TYR:CE1	58:N2:37:LEU:HD11	2.42	0.53
61:N5:113:LEU:HD11	61:N5:115:ARG:HG2	1.91	0.53
64:N8:88:ASP:N	64:N8:88:ASP:OD2	4.13	0.53
66:O0:73:GLY:N	66:O0:76:GLU:HG3	2.24	0.53
67:O1:14:ILE:HG13	67:O1:39:PHE:CD1	3.87	0.53
68:O2:13:HIS:CE1	68:O2:17:PHE:CZ	3.71	0.53
73:O7:5:THR:HA	73:O7:8:PHE:CD2	2.43	0.53
2:S0:164:ASN:OD1	2:S0:165:ARG:NH1	2.41	0.53
2:S0:87:LEU:HD12	2:S0:97:PRO:HB2	1.91	0.53
34:SR:7:LEU:HD11	34:SR:251:TRP:HZ3	1.73	0.53
36:1:1245:A:H3'	36:1:1246:G:H5''	1.90	0.53
36:1:1393:A:N3	36:1:1419:A:O2'	2.41	0.53
36:1:1412:G:O2'	36:1:1413:G:H5'	2.09	0.53
36:1:1740:U:H4'	36:1:1741:A:H5'	1.89	0.53
36:1:210:U:C2	36:1:230:U:H4'	2.44	0.53
36:1:2375:G:O2'	36:1:2377:G:OP2	2.22	0.53
36:1:549:U:H2'	36:1:550:A:C8	2.43	0.53
1:2:614:C:C2	1:2:615:A:C8	2.96	0.53
85:5:1087:G:C2	85:5:1088:U:C5	2.96	0.53
85:5:1289:G:H2'	85:5:1290:A:H8	1.72	0.53
85:5:1930:A:O2'	92:5:3431:OHX:N3	2.42	0.53
85:5:217:U:H2'	85:5:218:G:OP1	2.08	0.53
85:5:2249:G:N2	85:5:2250:G:C4	2.76	0.53
85:5:2254:U:H2'	85:5:2261:G:N2	2.24	0.53
85:5:2407:C:O2	85:5:2818:U:N3	2.29	0.53
85:5:3384:U:C2	85:5:3385:U:C6	2.97	0.53
85:5:2610:G:O6	92:5:3675:OHX:N6	2.42	0.53
80:6:1013:A:H2'	80:6:1014:G:O4'	2.09	0.53
80:6:176:C:H3'	80:6:177:U:C6	2.44	0.53
38:8:4:C:C4	38:8:5:U:C4	2.97	0.53
13:C1:21:ASN:HD21	13:C1:31:THR:HG22	4.96	0.53
15:C3:136:PRO:HG2	15:C3:139:TRP:HB2	1.91	0.53
21:C9:60:SER:O	21:C9:64:HIS:N	3.10	0.53
22:D0:17:GLN:HG3	22:D0:18:GLN:H	5.78	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:D0:18:GLN:O	22:D0:96:PRO:HB3	3.14	0.53
23:D1:9:VAL:HG22	23:D1:10:GLU:H	2.32	0.53
23:D1:71:ARG:HG3	23:D1:83:TRP:CZ2	2.63	0.53
32:E0:12:GLY:O	32:E0:16:SER:OG	2.32	0.53
39:L2:15:ILE:HG22	39:L2:16:PHE:CD2	7.04	0.53
39:L2:209:HIS:CD2	39:L2:211:HIS:H	2.27	0.53
40:L3:222:LYS:HG2	40:L3:223:GLY:N	2.45	0.53
41:L4:143:GLU:HB3	41:L4:144:LYS:HZ2	9.10	0.53
41:L4:145:ILE:HD12	41:L4:150:LEU:HG	2.75	0.53
36:1:211:A:OP1	41:L4:220:ARG:HD2	2.09	0.53
42:L5:111:GLN:OE1	42:L5:251:PRO:HG2	2.09	0.53
45:L8:71:VAL:HG12	45:L8:76:ALA:HB2	1.90	0.53
45:L8:78:PHE:CD2	45:L8:179:ILE:HD13	3.10	0.53
46:L9:163:GLN:O	46:L9:166:ARG:NH1	2.32	0.53
36:1:1127:G:H5'	47:M0:118:ALA:O	2.09	0.53
35:SM:27:LYS:HD2	48:M1:68:HIS:HE1	5.34	0.53
52:M6:54:TYR:O	52:M6:57:PHE:N	2.91	0.53
57:N1:56:PHE:O	57:N1:58:GLN:N	2.42	0.53
63:N7:14:VAL:O	63:N7:15:ARG:HG2	2.08	0.53
64:N8:91:LEU:HD12	64:N8:121:VAL:HG21	1.90	0.53
67:O1:55:LEU:O	67:O1:59:ILE:HG13	2.08	0.53
2:S0:120:LEU:HD12	2:S0:121:VAL:H	1.73	0.53
2:S0:29:VAL:HG22	2:S0:30:GLN:N	2.99	0.53
5:S3:138:VAL:HA	5:S3:183:GLY:O	3.25	0.53
6:S4:180:LEU:HD23	6:S4:194:THR:HG22	2.52	0.53
6:S4:180:LEU:N	6:S4:229:GLY:O	2.38	0.53
9:S7:164:TYR:CD1	9:S7:165:LYS:HG3	3.01	0.53
10:S8:26:LYS:HD2	10:S8:29:LEU:HD13	1.91	0.53
4:S2:98:PHE:CZ	35:SM:116:GLU:HG3	2.44	0.53
36:1:1489:A:OP1	70:O4:10:ARG:HD2	2.08	0.53
36:1:2508:U:H2'	36:1:2509:U:C6	2.44	0.53
36:1:2651:G:H4'	36:1:2652:U:OP2	2.08	0.53
36:1:2747:A:H2'	36:1:2748:A:C8	2.43	0.53
36:1:307:A:N6	36:1:2782:U:H3	2.07	0.53
36:1:3110:C:C2	36:1:3111:U:C6	2.95	0.53
36:1:28:C:O2'	36:1:61:A:N3	2.39	0.53
1:2:280:U:O2'	1:2:281:G:OP2	2.23	0.53
1:2:330:G:C6	1:2:331:A:C5	2.96	0.53
37:3:1:G:H4'	42:L5:273:ARG:NH2	2.24	0.53
64:N8:2:PRO:HA	85:5:1428:A:OP2	134.30	0.53
85:5:238:A:H2'	85:5:239:G:C8	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:3264:G:O6	92:5:3617:OHX:N2	2.41	0.53
54:M8:141:ARG:HH11	85:5:727:G:H21	177.82	0.53
8:S6:94:ARG:NH2	80:6:406:U:O2'	289.25	0.53
80:6:620:A:N7	80:6:621:A:C6	2.77	0.53
17:C5:87:PRO:O	17:C5:90:ILE:HG13	3.50	0.53
18:C6:142:TYR:O	18:C6:143:ARG:HB3	2.07	0.53
20:C8:87:ASN:H	20:C8:99:HIS:CE1	2.99	0.53
21:C9:12:GLN:OE1	80:6:1529:C:O2'	383.57	0.53
26:D4:55:VAL:HG12	26:D4:75:VAL:HG22	7.38	0.53
33:E1:90:LYS:HB2	33:E1:93:HIS:NE2	11.40	0.53
42:L5:36:LEU:HD23	85:5:2748:A:N3	254.75	0.53
46:L9:48:VAL:CG1	46:L9:52:LEU:HB3	2.38	0.53
47:M0:210:ILE:HA	47:M0:217:PHE:CD2	3.86	0.53
47:M0:75:TYR:CE2	47:M0:79:VAL:HG21	3.40	0.53
51:M5:174:ILE:O	51:M5:174:ILE:HG22	2.48	0.53
36:1:1191:U:C2	52:M6:48:PHE:CE1	2.97	0.53
53:M7:31:GLU:OE2	53:M7:61:ARG:HG3	3.63	0.53
54:M8:160:GLY:O	85:5:780:A:H5''	172.57	0.53
54:M8:69:ARG:O	54:M8:71:LEU:N	2.94	0.53
58:N2:29:ASP:OD2	58:N2:31:ALA:HB3	4.57	0.53
62:N6:115:ARG:O	62:N6:119:ILE:HG13	2.50	0.53
62:N6:69:LYS:O	62:N6:83:ASP:N	2.70	0.53
62:N6:81:GLN:OE1	62:N6:96:PRO:HB2	3.36	0.53
63:N7:16:GLY:O	63:N7:18:TYR:N	2.42	0.53
63:N7:90:GLU:O	63:N7:92:PHE:N	3.02	0.53
68:O2:32:TRP:CZ2	68:O2:53:PRO:HD2	2.70	0.53
36:1:944:C:H4'	68:O2:33:ARG:CZ	2.38	0.53
69:O3:8:TYR:HB2	69:O3:100:ILE:O	2.08	0.53
2:S0:50:VAL:HG23	19:C7:109:LEU:HD21	3.48	0.53
2:S0:71:GLU:HA	2:S0:95:ALA:N	2.24	0.53
3:S1:84:ILE:HD13	3:S1:103:MET:HB2	2.74	0.53
4:S2:41:LEU:HD21	4:S2:61:LEU:HD13	2.53	0.53
4:S2:88:LYS:O	4:S2:95:ARG:N	3.02	0.53
6:S4:141:THR:OG1	6:S4:143:ASP:OD2	2.39	0.53
8:S6:191:ARG:O	8:S6:195:VAL:HG23	2.09	0.53
9:S7:23:ALA:O	9:S7:27:LEU:HG	2.08	0.53
9:S7:35:LYS:NZ	9:S7:39:ARG:HD2	2.24	0.53
10:S8:62:THR:HG22	10:S8:77:ARG:HA	2.63	0.53
34:SR:201:THR:HB	34:SR:242:SER:HA	1.89	0.53
34:SR:84:SER:OG	34:SR:85:TRP:N	2.62	0.53
36:1:116:A:H5''	36:1:265:A:C2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2196:C:H2'	36:1:2242:A:H61	1.73	0.53
36:1:2947:G:H4'	36:1:2947:G:OP2	2.09	0.53
36:1:317:A:C2	36:1:318:A:C4	2.97	0.53
36:1:2350:C:H4'	36:1:3308:C:O2'	2.08	0.53
36:1:729:C:O2'	54:M8:79:LYS:HE2	2.09	0.53
1:2:966:A:N1	1:2:1002:A:C6	2.76	0.53
1:2:1015:G:C6	1:2:1087:U:C4	2.97	0.53
1:2:153:G:OP2	26:D4:131:ARG:NH2	2.24	0.53
1:2:497:G:O2'	1:2:498:G:C8	2.62	0.53
1:2:511:A:OP2	11:S9:176:ASN:ND2	2.40	0.53
38:4:26:U:H5''	38:4:27:U:OP2	2.08	0.53
85:5:100:A:C2'	85:5:101:G:H5'	2.38	0.53
67:O1:57:GLN:HG2	85:5:1475:A:H4'	146.61	0.53
85:5:1667:A:H2'	85:5:1668:G:C8	2.44	0.53
55:M9:117:LYS:HE2	85:5:1718:G:H4'	248.59	0.53
80:6:1564:U:H2'	80:6:1565:C:H6	1.74	0.53
80:6:1579:U:OP2	92:6:2039:OHX:N3	2.42	0.53
80:6:542:A:OP1	80:6:544:A:C5	2.62	0.53
80:6:687:G:O5'	80:6:687:G:H8	1.92	0.53
16:C4:50:ALA:C	16:C4:52:ARG:N	2.98	0.53
17:C5:18:ARG:HB2	17:C5:36:LEU:HD12	1.90	0.53
17:C5:18:ARG:HD2	17:C5:36:LEU:O	2.39	0.53
22:D0:20:ILE:HG22	22:D0:21:LYS:H	5.41	0.53
25:D3:86:PHE:O	25:D3:124:VAL:HG23	2.09	0.53
30:D8:13:ILE:HD11	30:D8:31:GLU:HB2	1.90	0.53
31:D9:10:HIS:ND1	31:D9:11:PRO:HD2	2.24	0.53
39:L2:3:ARG:HG2	39:L2:4:VAL:H	2.20	0.53
40:L3:13:HIS:CE1	40:L3:15:GLY:H	2.25	0.53
41:L4:162:THR:OG1	41:L4:218:ALA:O	3.33	0.53
42:L5:218:ARG:O	42:L5:221:GLU:N	2.42	0.53
46:L9:150:SER:HG	46:L9:153:ASP:H	1.51	0.53
46:L9:90:MET:HB3	46:L9:180:TYR:O	2.08	0.53
37:3:40:C:H5'	48:M1:43:GLN:HG2	1.91	0.53
49:M3:100:ARG:O	49:M3:101:ARG:HB3	4.67	0.53
53:M7:147:GLU:O	53:M7:147:GLU:HG3	2.85	0.53
54:M8:157:PRO:HG3	64:N8:47:LYS:HB2	1.89	0.53
41:L4:29:PRO:CB	54:M8:25:TYR:HE2	4.70	0.53
59:N3:17:LEU:HD21	59:N3:98:ASN:CG	2.64	0.53
61:N5:80:ASN:HD21	61:N5:126:LEU:HB2	1.73	0.53
64:N8:71:PRO:HB2	64:N8:109:TYR:HA	1.91	0.53
65:N9:28:LYS:HD3	65:N9:29:TYR:H	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:O1:31:ARG:HB3	67:O1:31:ARG:NH1	2.23	0.53
2:S0:69:ASN:OD1	4:S2:244:SER:OG	2.27	0.53
9:S7:141:ARG:NH2	9:S7:143:LEU:HD21	3.15	0.53
36:1:139:G:H2'	36:1:140:C:O4'	2.08	0.53
36:1:2317:A:C5	36:1:2318:U:C5	2.97	0.53
36:1:2885:C:C4	36:1:2886:U:C4	2.96	0.53
36:1:3205:G:H2'	36:1:3206:C:C5	2.44	0.53
36:1:726:G:N2	36:1:743:C:C5	2.76	0.53
36:1:975:C:H2'	36:1:976:U:H6	1.69	0.53
1:2:1158:U:H2'	1:2:1159:G:H8	1.74	0.53
1:2:1506:G:OP1	1:2:1506:G:H2'	2.09	0.53
1:2:495:C:H3'	1:2:496:G:C4'	2.39	0.53
1:2:562:G:N2	1:2:584:C:C2	2.77	0.53
1:2:975:A:OP1	92:2:1913:OHX:N2	2.41	0.53
37:3:27:A:P	42:L5:57:ASN:H	2.32	0.53
37:3:91:G:H2'	37:3:92:A:C8	2.44	0.53
38:4:141:C:OP2	92:4:220:OHX:N3	2.41	0.53
38:4:99:C:OP1	61:N5:53:HIS:NE2	2.42	0.53
58:N2:82:LYS:NZ	85:5:1682:U:O2	158.74	0.53
85:5:2105:G:H2'	85:5:2106:A:H8	1.72	0.53
85:5:2707:C:H2'	85:5:2708:C:C6	2.43	0.53
43:L6:69:PHE:CZ	85:5:3267:A:H2'	258.75	0.53
85:5:3342:A:C6	85:5:3343:G:C5	2.97	0.53
85:5:78:U:H2'	85:5:79:U:H6	1.74	0.53
80:6:1148:C:O2'	80:6:1149:G:H5'	2.08	0.53
80:6:1784:C:H2'	80:6:1785:U:C6	2.44	0.53
80:6:325:G:C2	80:6:344:A:C2	2.97	0.53
25:D3:3:LYS:HE2	80:6:614:C:OP1	352.63	0.53
26:D4:120:GLY:O	80:6:85:A:H4'	338.42	0.53
15:C3:40:TYR:O	15:C3:45:LEU:HB2	3.37	0.53
19:C7:21:TYR:OH	19:C7:62:GLN:OE1	2.27	0.53
39:L2:58:LEU:HD13	39:L2:75:ILE:CG2	2.39	0.53
40:L3:258:ALA:O	40:L3:259:HIS:CG	2.62	0.53
36:1:3122:A:H2	46:L9:67:ALA:HB2	1.74	0.53
46:L9:90:MET:HE3	46:L9:181:VAL:HA	3.10	0.53
47:M0:4:ARG:NH1	47:M0:99:ILE:HG13	2.24	0.53
49:M3:159:VAL:HA	64:N8:124:ILE:HD11	1.90	0.53
36:1:3172:A:H1'	52:M6:101:ARG:HH21	1.74	0.53
52:M6:73:PHE:CD1	52:M6:78:ARG:HG2	2.44	0.53
54:M8:100:THR:HG22	54:M8:120:GLU:HB3	3.24	0.53
54:M8:183:GLY:O	92:M8:201:OHX:N2	4.78	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:N7:104:PRO:O	63:N7:108:GLU:HG3	2.29	0.53
64:N8:25:HIS:C	64:N8:25:HIS:CD2	3.07	0.53
64:N8:61:PHE:CZ	85:5:283:G:H2'	148.27	0.53
67:O1:62:ARG:HB2	67:O1:66:GLY:O	2.08	0.53
6:S4:193:GLY:C	6:S4:194:THR:HG1	2.11	0.53
1:2:332:U:P	10:S8:56:ARG:HH22	2.32	0.53
34:SR:66:HIS:HB2	34:SR:86:ASP:HB3	3.04	0.53
36:1:1542:G:O6	92:1:3552:OHX:N2	2.42	0.53
36:1:1766:G:OP2	36:1:1766:G:H8	1.91	0.53
36:1:2831:G:C6	36:1:2832:C:C4	2.96	0.53
36:1:2890:A:H61	36:1:2913:C:H42	1.57	0.53
36:1:665:A:H1'	49:M3:14:PHE:CE1	2.43	0.53
36:1:708:G:N2	36:1:711:A:OP2	2.35	0.53
36:1:761:A:C2	36:1:771:A:H1'	2.44	0.53
1:2:1508:A:H2'	1:2:1509:A:C8	2.44	0.53
1:2:1589:C:H2'	1:2:1590:G:C8	2.43	0.53
1:2:1633:U:H2'	1:2:1634:A:C8	2.44	0.53
1:2:285:G:O6	8:S6:185:GLN:NE2	2.42	0.53
1:2:475:A:N7	1:2:476:U:C4	2.76	0.53
1:2:632:U:H2'	1:2:633:U:O4'	2.08	0.53
85:5:1598:G:H2'	85:5:1599:G:H8	1.74	0.53
85:5:1814:A:C2	85:5:1816:A:C2	2.97	0.53
85:5:181:U:N3	85:5:182:U:C2	2.77	0.53
85:5:1932:A:H5'	85:5:1933:A:OP2	2.09	0.53
80:6:477:A:C5	80:6:538:A:C6	2.97	0.53
80:6:749:U:H2'	80:6:750:U:C6	2.44	0.53
10:S8:69:SER:HB2	13:C1:22:ASN:OD1	2.09	0.53
18:C6:120:ASP:OD2	18:C6:122:ARG:NH2	4.03	0.53
18:C6:140:LYS:HD2	18:C6:142:TYR:CE1	5.28	0.53
18:C6:68:ARG:NH2	18:C6:70:THR:OG1	6.07	0.53
23:D1:32:VAL:HB	23:D1:60:ARG:HD2	3.42	0.53
23:D1:74:GLN:HA	23:D1:79:LEU:HB2	1.91	0.53
39:L2:243:THR:OG1	85:5:2244:A:H5''	229.26	0.53
92:1:3711:OHX:N4	40:L3:364:LYS:HB3	2.24	0.53
42:L5:88:ILE:HD12	42:L5:240:TYR:CE1	4.43	0.53
47:M0:210:ILE:HG12	47:M0:217:PHE:CZ	2.44	0.53
51:M5:113:LEU:HD12	51:M5:134:LEU:HD22	3.76	0.53
51:M5:4:TYR:O	51:M5:7:LEU:N	2.89	0.53
65:N9:50:THR:HB	85:5:1073:U:H1'	206.22	0.53
68:O2:7:PRO:HG2	68:O2:63:THR:HG23	3.30	0.53
36:1:284:A:O4'	78:Q2:41:ARG:HD2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S1:176:VAL:HB	3:S1:177:GLN:OE1	2.09	0.53
4:S2:111:VAL:O	4:S2:136:VAL:HA	2.08	0.53
4:S2:157:LYS:HG2	4:S2:170:ILE:HG23	2.58	0.53
4:S2:83:ILE:HG21	4:S2:121:VAL:HG13	3.67	0.53
5:S3:106:LYS:O	5:S3:110:LEU:HB2	2.08	0.53
8:S6:161:GLU:HA	8:S6:169:TYR:O	2.67	0.53
8:S6:176:GLN:HG3	8:S6:177:ARG:H	1.89	0.53
9:S7:46:ILE:HG12	9:S7:60:ILE:HA	2.37	0.53
36:1:2689:A:H2'	36:1:2689:A:N3	2.23	0.53
36:1:343:U:OP2	92:1:3420:OHX:N6	2.42	0.53
36:1:802:C:C2'	36:1:803:C:H5'	2.39	0.53
1:2:226:A:N6	1:2:818:U:H3	2.06	0.53
1:2:284:G:N7	8:S6:188:ARG:NH1	2.57	0.53
1:2:542:A:H5''	1:2:544:A:C8	2.44	0.53
85:5:1108:U:H2'	85:5:1109:U:C6	2.44	0.53
85:5:2224:A:N7	85:5:2225:U:H1'	2.23	0.53
85:5:271:C:H4'	85:5:317:A:H2	1.74	0.53
85:5:2956:A:H8	85:5:2956:A:O5'	1.92	0.53
92:5:3555:OHX:N5	92:5:3703:OHX:N6	2.57	0.53
51:M5:84:PRO:HD2	85:5:44:U:P	166.49	0.53
80:6:264:G:O6	92:6:1913:OHX:N5	2.42	0.53
37:7:33:U:H2'	37:7:34:C:O4'	2.08	0.53
51:M5:110:ALA:HB2	38:8:141:C:H4'	111.01	0.53
38:8:80:A:N3	38:8:82:U:O4	2.42	0.53
12:C0:23:ALA:CB	12:C0:64:TYR:HB2	4.14	0.53
12:C0:38:LYS:HB2	12:C0:41:TYR:CD2	3.72	0.53
13:C1:13:PHE:CE2	13:C1:15:LYS:HB3	2.44	0.53
13:C1:17:PRO:HG3	13:C1:63:LEU:HD11	1.90	0.53
39:L2:45:VAL:HG22	39:L2:84:THR:HA	1.91	0.53
42:L5:261:THR:OG1	42:L5:264:GLN:HG3	2.09	0.53
43:L6:172:HIS:H	43:L6:172:HIS:HD1	1.57	0.53
47:M0:75:TYR:CD1	47:M0:75:TYR:O	3.63	0.53
51:M5:98:LEU:HD23	51:M5:128:LYS:HD2	1.90	0.53
52:M6:41:LEU:HD21	52:M6:80:PHE:HD1	3.08	0.53
56:N0:61:ILE:O	56:N0:61:ILE:HG23	2.08	0.53
36:1:304:G:C2	64:N8:62:HIS:ND1	2.77	0.53
77:Q1:4:LYS:HG2	77:Q1:5:TRP:CZ3	2.44	0.53
3:S1:117:TRP:HE1	3:S1:152:ARG:NH1	2.07	0.53
3:S1:173:THR:O	3:S1:177:GLN:NE2	2.42	0.53
6:S4:191:ARG:HH11	6:S4:245:LYS:HB3	1.74	0.53
11:S9:20:GLU:HG3	11:S9:23:ARG:HB3	5.12	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1077:U:O2	36:1:1083:G:C2	2.63	0.52
36:1:1734:G:H2'	36:1:1735:G:O4'	2.09	0.52
36:1:2226:U:H6	36:1:2226:U:O5'	1.93	0.52
36:1:353:G:N7	73:O7:55:ARG:HD3	2.24	0.52
36:1:381:U:H2'	36:1:382:U:H6	1.74	0.52
36:1:501:A:H2'	36:1:502:U:H6	1.74	0.52
1:2:1236:U:H5''	33:E1:130:VAL:HB	1.89	0.52
1:2:417:A:H4'	1:2:418:G:O5'	2.08	0.52
1:2:689:A:C6	1:2:717:A:N6	2.77	0.52
38:4:41:A:N6	38:4:103:G:O2'	2.34	0.52
85:5:1223:A:H8	85:5:1223:A:OP2	1.92	0.52
85:5:1562:C:H2'	85:5:1563:C:C6	2.44	0.52
85:5:2289:U:H2'	85:5:2290:C:C6	2.44	0.52
85:5:50:U:H2'	85:5:50:U:O2	2.09	0.52
80:6:106:U:H2'	80:6:107:C:O4'	2.09	0.52
80:6:1146:G:C6	80:6:1147:A:C5	2.97	0.52
80:6:1230:A:C8	80:6:1258:U:C4	2.96	0.52
80:6:17:C:H2'	80:6:18:C:C6	2.44	0.52
80:6:235:G:H2'	80:6:236:A:H8	1.74	0.52
80:6:82:U:H2'	80:6:83:G:O4'	2.09	0.52
80:6:919:A:H2'	80:6:920:U:H6	1.74	0.52
12:C0:14:TYR:CE1	12:C0:18:GLU:HG3	2.81	0.52
15:C3:27:LYS:H	15:C3:27:LYS:CD	2.21	0.52
1:2:1443:A:C4	17:C5:128:HIS:CD2	2.97	0.52
27:D5:42:LEU:O	27:D5:46:LYS:HB2	2.08	0.52
1:2:1598:C:H5''	30:D8:18:ARG:HH22	1.74	0.52
41:L4:49:ALA:HA	41:L4:109:TRP:CZ2	2.48	0.52
44:L7:74:SER:HB3	57:N1:141:VAL:O	2.62	0.52
45:L8:101:THR:H	45:L8:104:GLU:HB2	1.74	0.52
45:L8:133:LYS:HD2	45:L8:138:HIS:HE1	1.73	0.52
45:L8:200:LEU:HD22	45:L8:202:GLU:O	2.08	0.52
36:1:3198:U:O4	46:L9:26:LYS:HB2	2.09	0.52
51:M5:165:THR:O	51:M5:169:LYS:HG3	2.49	0.52
53:M7:69:ARG:CG	53:M7:79:THR:HG22	4.04	0.52
57:N1:102:ARG:NH2	85:5:1061:A:O3'	237.47	0.52
58:N2:104:ARG:NH1	58:N2:106:ALA:HB2	3.48	0.52
63:N7:46:ILE:HD13	63:N7:49:TYR:N	4.06	0.52
64:N8:86:LYS:O	64:N8:89:GLN:HB2	2.08	0.52
67:O1:43:HIS:O	67:O1:44:MET:HE2	5.78	0.52
68:O2:91:THR:HG22	68:O2:92:TYR:CD2	3.11	0.52
69:O3:18:ARG:HA	69:O3:23:ASN:HA	1.95	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
69:O3:23:ASN:C	69:O3:23:ASN:OD1	2.56	0.52
69:O3:6:ARG:HD2	69:O3:8:TYR:O	2.10	0.52
78:Q2:14:GLY:O	78:Q2:18:ARG:HG3	4.06	0.52
3:S1:194:ASN:ND2	3:S1:211:HIS:HA	2.23	0.52
3:S1:70:LEU:CD1	3:S1:79:HIS:HB3	2.39	0.52
4:S2:227:PRO:HA	4:S2:230:TRP:CD1	2.49	0.52
4:S2:238:SER:C	4:S2:240:LEU:H	2.12	0.52
4:S2:53:ILE:O	4:S2:56:ILE:N	2.42	0.52
9:S7:96:ARG:HH22	9:S7:128:ASP:CG	2.12	0.52
11:S9:27:GLU:HB3	11:S9:39:LYS:HD2	1.91	0.52
36:1:1565:G:N2	36:1:1574:C:C2	2.77	0.52
36:1:2254:U:H2'	36:1:2261:G:H22	1.73	0.52
36:1:2557:A:H5'	63:N7:135:ARG:HH11	1.74	0.52
36:1:2961:G:C6	36:1:2972:G:O6	2.62	0.52
92:1:3507:OHX:N3	92:1:3691:OHX:N2	2.58	0.52
36:1:3159:C:OP1	92:1:3683:OHX:N1	2.43	0.52
36:1:600:G:C2	36:1:604:G:C6	2.97	0.52
1:2:1467:G:C2	1:2:1468:C:C5	2.97	0.52
1:2:312:A:H2	1:2:314:C:H2'	1.74	0.52
1:2:327:U:C2	1:2:328:A:C8	2.97	0.52
1:2:432:G:C6	1:2:433:C:N3	2.76	0.52
1:2:867:A:H4'	3:S1:124:ASN:HD21	1.71	0.52
43:L6:2:SER:N	85:5:1385:C:O2	134.81	0.52
85:5:1534:A:N6	85:5:1587:A:C8	2.77	0.52
85:5:1741:A:C6	85:5:1742:U:C2	2.96	0.52
85:5:1822:C:H2'	85:5:1823:A:C8	2.44	0.52
39:L2:226:SER:HB2	85:5:2202:C:H5''	208.38	0.52
85:5:2731:U:OP2	92:5:3725:OHX:N2	2.42	0.52
85:5:2906:C:C2	85:5:2907:G:C8	2.98	0.52
85:5:327:A:C4	85:5:328:U:C5	2.98	0.52
85:5:439:C:C4'	85:5:440:A:H5'	2.38	0.52
80:6:1358:G:H2'	80:6:1359:C:C6	2.44	0.52
80:6:30:G:H2'	80:6:31:C:C6	2.44	0.52
17:C5:25:LEU:O	17:C5:28:MET:HE2	4.39	0.52
25:D3:92:CYS:SG	25:D3:132:LEU:HD12	2.49	0.52
26:D4:129:VAL:O	26:D4:132:ARG:HB3	2.32	0.52
28:D6:49:ALA:O	28:D6:53:LEU:HB2	2.22	0.52
32:E0:41:THR:O	32:E0:45:VAL:HB	3.01	0.52
44:L7:174:GLY:HA2	44:L7:177:GLY:O	2.32	0.52
45:L8:195:SER:O	45:L8:197:VAL:N	2.41	0.52
46:L9:57:VAL:HG12	46:L9:58:HIS:N	2.98	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:M3:131:LYS:NZ	49:M3:131:LYS:HB3	2.25	0.52
51:M5:122:ASN:O	51:M5:129:TYR:HD2	1.98	0.52
51:M5:168:GLY:C	51:M5:170:LYS:H	2.62	0.52
49:M3:16:LYS:HE3	51:M5:195:ASN:OD1	2.09	0.52
51:M5:24:ARG:HH11	51:M5:24:ARG:HG2	3.89	0.52
52:M6:39:GLU:OE1	52:M6:39:GLU:N	2.40	0.52
53:M7:115:SER:OG	53:M7:149:VAL:HG22	2.09	0.52
53:M7:85:ALA:O	53:M7:87:SER:N	2.94	0.52
55:M9:23:TRP:HB3	55:M9:51:VAL:HG22	1.92	0.52
55:M9:99:LEU:O	55:M9:99:LEU:HD22	2.09	0.52
64:N8:14:HIS:O	64:N8:16:SER:N	2.36	0.52
66:O0:12:GLN:O	66:O0:15:ALA:HB3	2.21	0.52
67:O1:55:LEU:O	67:O1:55:LEU:HD13	2.09	0.52
67:O1:50:ARG:NH2	67:O1:90:PHE:CZ	4.57	0.52
70:O4:44:CYS:SG	70:O4:47:CYS:SG	3.10	0.52
77:Q1:13:LEU:HD11	77:Q1:17:ARG:NH2	2.25	0.52
1:2:1766:C:OP2	77:Q1:1:MET:HB2	2.09	0.52
2:S0:41:ARG:HE	2:S0:45:VAL:CG2	2.22	0.52
2:S0:89:PHE:O	2:S0:93:THR:HG23	2.37	0.52
5:S3:222:VAL:C	5:S3:223:LYS:HD2	3.16	0.52
6:S4:192:ILE:HG13	6:S4:243:GLY:HA3	1.91	0.52
7:S5:121:ILE:HG13	7:S5:195:ALA:HB1	2.75	0.52
8:S6:78:THR:HG22	8:S6:92:ARG:HG2	1.91	0.52
11:S9:9:SER:O	80:6:471:A:O2'	390.92	0.52
34:SR:89:LEU:O	34:SR:103:PHE:HD2	1.92	0.52
36:1:1161:G:C2	36:1:1162:U:C5	2.97	0.52
36:1:950:G:N7	36:1:1367:G:C6	2.78	0.52
36:1:1550:C:H2'	36:1:1551:C:H6	1.74	0.52
36:1:1727:G:H2'	36:1:1728:G:H21	1.73	0.52
36:1:2337:C:H6	36:1:2337:C:O5'	1.92	0.52
36:1:2532:U:H3	36:1:2547:A:H61	1.57	0.52
36:1:2700:G:O2'	36:1:2705:A:N1	2.40	0.52
36:1:283:G:O6	36:1:304:G:H1'	2.09	0.52
36:1:813:G:H2'	36:1:814:U:H6	1.73	0.52
1:2:330:G:O6	1:2:331:A:N6	2.42	0.52
1:2:788:U:O4	1:2:789:A:N6	2.43	0.52
36:1:1419:A:H5'	38:4:20:U:O3'	2.10	0.52
85:5:1105:A:C6	85:5:1106:G:C5	2.97	0.52
85:5:1313:G:H2'	85:5:1314:C:C6	2.45	0.52
85:5:21:G:H1	38:8:138:A:H61	1.55	0.52
85:5:2322:C:OP1	92:5:3659:OHX:N6	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:278:U:H2'	85:5:279:U:H6	1.74	0.52
85:5:3242:G:H5'	85:5:3245:A:H8	1.73	0.52
85:5:438:A:H2'	85:5:494:G:N2	2.25	0.52
80:6:418:G:N2	80:6:419:G:C4	2.77	0.52
80:6:427:C:N4	80:6:428:A:H62	2.07	0.52
12:C0:27:PHE:HB3	12:C0:40:LEU:HD23	2.68	0.52
14:C2:62:LEU:HB2	14:C2:120:VAL:HG22	1.91	0.52
16:C4:126:THR:HG21	80:6:888:U:H1'	275.00	0.52
25:D3:48:HIS:ND1	25:D3:105:ALA:HB2	2.24	0.52
41:L4:181:VAL:HG11	41:L4:223:PRO:O	2.68	0.52
41:L4:264:SER:HB2	41:L4:265:GLU:OE1	2.09	0.52
45:L8:42:PRO:HD2	45:L8:44:ARG:NH1	2.24	0.52
46:L9:86:TYR:O	46:L9:147:SER:HA	2.28	0.52
47:M0:36:LEU:HD23	47:M0:73:ASN:ND2	2.24	0.52
52:M6:109:PRO:HB3	85:5:3243:A:N3	259.47	0.52
52:M6:12:LYS:HA	52:M6:40:GLU:O	2.70	0.52
52:M6:27:LEU:O	52:M6:101:ARG:NH1	2.43	0.52
56:N0:98:SER:OG	56:N0:100:VAL:N	2.34	0.52
59:N3:13:ILE:HG13	59:N3:14:SER:N	3.05	0.52
61:N5:113:LEU:HD12	61:N5:114:VAL:N	2.24	0.52
61:N5:136:ALA:HB1	61:N5:141:TYR:CE1	2.44	0.52
63:N7:88:ASP:HB3	63:N7:121:ARG:NH2	2.24	0.52
70:O4:80:ARG:NH1	70:O4:88:ARG:HH22	2.06	0.52
4:S2:241:ASP:HA	4:S2:244:SER:HB2	1.90	0.52
6:S4:246:LEU:HD21	6:S4:254:ARG:CZ	2.40	0.52
6:S4:249:ALA:O	6:S4:252:ARG:NH2	5.51	0.52
7:S5:157:ARG:N	7:S5:157:ARG:HE	4.05	0.52
36:1:1472:U:H2'	36:1:1473:G:C8	2.45	0.52
36:1:1574:C:C4	36:1:1575:A:N7	2.77	0.52
36:1:1791:C:H2'	36:1:1792:C:C5	2.44	0.52
36:1:1807:G:N7	36:1:1808:G:C6	2.77	0.52
36:1:2152:A:C2	36:1:2185:G:C2	2.97	0.52
36:1:2218:G:O2'	36:1:2219:A:H5'	2.09	0.52
36:1:2652:U:C5	36:1:2653:C:C5	2.98	0.52
36:1:2815:G:H3'	36:1:2816:G:H5''	1.92	0.52
36:1:3015:G:C2	36:1:3040:A:N3	2.77	0.52
36:1:2616:C:O2'	92:1:3644:OHX:N2	2.42	0.52
92:1:3565:OHX:N1	92:1:3729:OHX:N3	2.58	0.52
36:1:887:G:N1	36:1:888:A:C2	2.77	0.52
36:1:901:G:OP1	73:O7:12:HIS:NE2	2.35	0.52
1:2:1166:A:C6	1:2:1167:A:N1	2.77	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:350:U:O2	1:2:352:A:C6	2.62	0.52
1:2:473:A:H5'	1:2:752:A:H1'	1.90	0.52
85:5:1043:C:O5'	85:5:1043:C:H6	1.93	0.52
85:5:1868:G:H8	85:5:1868:G:O5'	1.91	0.52
51:M5:50:ARG:HH11	85:5:267:G:H4'	111.55	0.52
85:5:3220:G:C5	85:5:3221:C:C5	2.98	0.52
85:5:378:A:C8	85:5:379:C:C5	2.97	0.52
85:5:537:A:C2	85:5:557:A:C4	2.97	0.52
85:5:678:G:C6	85:5:679:U:C4	2.98	0.52
85:5:916:G:H4'	85:5:917:A:O5'	2.08	0.52
80:6:1486:G:H21	80:6:1593:A:P	2.32	0.52
80:6:836:U:H2'	80:6:837:G:H8	1.75	0.52
16:C4:32:ASP:N	16:C4:37:GLU:O	2.35	0.52
20:C8:15:LEU:HD22	20:C8:15:LEU:H	3.39	0.52
14:C2:50:LYS:HE2	33:E1:103:LEU:HD11	1.92	0.52
41:L4:84:ARG:HG3	41:L4:84:ARG:O	2.07	0.52
46:L9:129:ARG:HB2	46:L9:132:VAL:HG11	1.91	0.52
46:L9:49:ASN:OD1	46:L9:51:GLN:N	3.47	0.52
48:M1:166:LYS:C	48:M1:168:ASP:N	3.37	0.52
48:M1:19:LEU:N	48:M1:19:LEU:HD23	2.71	0.52
53:M7:47:TYR:OH	53:M7:58:ILE:HD13	2.51	0.52
54:M8:63:SER:O	54:M8:67:ILE:HG13	3.04	0.52
55:M9:12:ALA:HB1	55:M9:17:VAL:O	2.40	0.52
63:N7:52:LYS:O	63:N7:65:ARG:NH1	2.50	0.52
63:N7:89:VAL:HG13	63:N7:89:VAL:O	2.09	0.52
64:N8:56:VAL:O	64:N8:57:GLY:O	2.27	0.52
66:O0:41:LEU:HA	66:O0:66:LYS:O	2.84	0.52
67:O1:72:ARG:NH2	67:O1:105:GLN:O	2.72	0.52
69:O3:103:TYR:HA	69:O3:105:SER:N	3.00	0.52
76:Q0:97:ARG:HG3	76:Q0:120:GLN:O	2.10	0.52
36:1:837:A:OP2	79:Q3:4:ARG:NH1	2.42	0.52
3:S1:144:ARG:NH1	3:S1:202:LYS:HE2	7.46	0.52
4:S2:222:TYR:OH	23:D1:11:LEU:O	2.27	0.52
7:S5:136:ALA:HA	7:S5:201:ALA:O	2.10	0.52
34:SR:167:VAL:HG12	34:SR:183:LEU:HD12	1.92	0.52
34:SR:249:ARG:CZ	34:SR:315:VAL:HG21	4.26	0.52
36:1:1148:G:HO2'	36:1:1171:G:HO2'	1.51	0.52
36:1:1210:U:OP1	46:L9:62:ARG:NH1	2.42	0.52
36:1:1752:A:OP2	92:1:3580:OHX:N5	2.42	0.52
36:1:1822:C:H2'	36:1:1823:A:H8	1.74	0.52
36:1:3133:C:H2'	36:1:3134:A:O4'	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:813:G:C4	36:1:814:U:C5	2.98	0.52
1:2:1466:A:H2	1:2:1590:G:H1'	1.74	0.52
1:2:185:U:H5'	1:2:186:C:OP2	2.10	0.52
1:2:28:A:H2'	1:2:29:U:C6	2.44	0.52
85:5:982:C:H42	85:5:1101:G:H1	1.57	0.52
85:5:1728:G:H5''	85:5:1730:G:O4'	2.09	0.52
75:O9:44:TRP:CZ3	85:5:1842:A:H1'	123.66	0.52
85:5:3081:C:H2'	85:5:3082:C:H6	1.75	0.52
85:5:652:G:P	92:5:3671:OHX:N6	2.82	0.52
85:5:597:G:N3	85:5:598:A:C8	2.78	0.52
80:6:1679:G:O6	92:6:2049:OHX:N3	2.42	0.52
80:6:456:A:C6	80:6:457:G:C5	2.97	0.52
80:6:54:C:H2'	80:6:55:A:H8	1.73	0.52
13:C1:36:LYS:HE3	13:C1:59:PRO:O	2.10	0.52
18:C6:97:VAL:HG22	18:C6:98:ASP:H	1.74	0.52
1:2:1573:G:OP1	21:C9:91:TYR:HB2	2.09	0.52
22:D0:61:LYS:CG	22:D0:86:ILE:HB	2.40	0.52
1:2:159:U:H5'	26:D4:117:LYS:HD3	1.91	0.52
28:D6:18:VAL:HG21	28:D6:33:ASP:HB3	4.49	0.52
41:L4:258:LEU:C	41:L4:260:GLN:N	2.63	0.52
42:L5:62:CYS:HB3	42:L5:105:ILE:HG13	1.92	0.52
43:L6:129:GLU:N	92:L6:202:OHX:N1	2.58	0.52
45:L8:123:GLN:C	45:L8:125:ALA:H	3.15	0.52
45:L8:55:TYR:O	45:L8:59:GLN:HG2	2.10	0.52
53:M7:32:THR:HG21	53:M7:87:SER:CB	2.56	0.52
57:N1:57:TYR:HD1	57:N1:76:ILE:HG21	2.05	0.52
59:N3:86:ARG:HD2	59:N3:92:PHE:CE2	2.50	0.52
62:N6:51:ARG:HG3	62:N6:52:ARG:N	3.07	0.52
67:O1:27:LYS:O	67:O1:30:PRO:HD2	2.26	0.52
2:S0:29:VAL:HG13	2:S0:30:GLN:N	3.57	0.52
2:S0:35:PRO:C	2:S0:37:VAL:H	2.12	0.52
2:S0:38:PHE:HB2	2:S0:49:ASN:HD22	2.61	0.52
4:S2:67:GLN:HA	4:S2:70:ASP:HB2	2.21	0.52
5:S3:59:LEU:HA	5:S3:66:ILE:HB	3.03	0.52
6:S4:126:VAL:HG22	6:S4:156:VAL:HA	2.66	0.52
7:S5:54:LYS:HE3	7:S5:131:GLN:NE2	5.53	0.52
7:S5:222:LYS:HA	7:S5:225:ARG:HH11	4.43	0.52
7:S5:64:VAL:HG22	7:S5:89:ILE:HD11	2.29	0.52
9:S7:77:LEU:O	9:S7:81:LEU:HG	2.43	0.52
36:1:2317:A:C4	36:1:2318:U:C6	2.98	0.52
36:1:2564:G:C5	36:1:2565:U:C5	2.97	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2727:A:OP2	36:1:2728:G:N2	2.40	0.52
36:1:297:G:OP2	36:1:297:G:N2	2.27	0.52
36:1:3060:C:O2	36:1:3332:U:O2'	2.19	0.52
36:1:861:C:H2'	36:1:862:U:C6	2.45	0.52
1:2:1401:G:C2	1:2:1402:G:C8	2.98	0.52
1:2:718:C:O2'	1:2:719:C:H5''	2.10	0.52
85:5:1438:U:C2	85:5:1439:U:C5	2.98	0.52
85:5:1502:C:C4	85:5:1515:A:N1	2.78	0.52
85:5:2404:A:C6	95:5:3401:PHE:CZ	2.97	0.52
10:S8:26:LYS:HE3	80:6:396:G:O6	304.79	0.52
80:6:478:A:C2	80:6:511:A:N1	2.76	0.52
80:6:514:G:N7	80:6:537:G:N2	2.57	0.52
14:C2:54:ARG:HG3	14:C2:56:GLU:HG3	3.58	0.52
1:2:886:U:H4'	16:C4:135:ARG:NH2	2.24	0.52
19:C7:106:THR:O	19:C7:109:LEU:HB3	2.10	0.52
30:D8:26:THR:O	30:D8:44:VAL:HG22	2.63	0.52
40:L3:92:TYR:CE2	40:L3:101:SER:HB3	2.70	0.52
40:L3:241:LYS:HG2	85:5:874:U:OP1	211.23	0.52
36:1:874:U:OP1	40:L3:241:LYS:HG3	2.10	0.52
41:L4:265:GLU:OE1	41:L4:265:GLU:HA	4.01	0.52
43:L6:129:GLU:HA	92:L6:202:OHX:N4	2.24	0.52
43:L6:153:PRO:O	43:L6:154:LEU:HB2	2.10	0.52
44:L7:174:GLY:O	44:L7:176:TYR:N	2.46	0.52
44:L7:195:PHE:O	44:L7:196:LYS:C	2.90	0.52
57:N1:101:CYS:HB3	85:5:990:U:C1'	252.51	0.52
57:N1:45:ASN:H	57:N1:95:HIS:CE1	2.68	0.52
59:N3:127:PRO:HA	59:N3:130:ALA:HB3	2.66	0.52
62:N6:12:ARG:HD3	85:5:215:G:OP1	89.08	0.52
66:O0:41:LEU:HD22	66:O0:42:ILE:H	2.91	0.52
71:O5:9:LEU:O	71:O5:11:THR:N	2.43	0.52
2:S0:129:ASP:O	2:S0:132:ALA:N	2.41	0.52
3:S1:104:ASP:OD1	3:S1:214:LYS:HD3	2.09	0.52
4:S2:230:TRP:NE1	24:D2:68:ARG:HB2	3.75	0.52
7:S5:68:ILE:HD13	7:S5:69:PHE:H	5.11	0.52
1:2:639:U:O4	9:S7:100:PRO:HB3	2.10	0.52
9:S7:67:LEU:HD11	9:S7:94:ALA:HB2	1.91	0.52
10:S8:62:THR:HA	10:S8:76:THR:O	2.61	0.52
11:S9:28:LEU:HD22	11:S9:31:ALA:HB3	1.90	0.52
17:C5:121:ILE:HG12	35:SM:57:ASN:ND2	2.25	0.52
34:SR:231:MET:HB3	34:SR:232:TYR:HD2	1.74	0.52
36:1:1070:U:C4	36:1:1071:U:C4	2.98	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3183:A:H2	36:1:3188:G:H4'	1.74	0.52
36:1:860:G:OP1	79:Q3:17:ARG:NH1	2.42	0.52
1:2:1145:C:O2	1:2:1599:G:N2	2.43	0.52
1:2:1274:G:OP1	4:S2:97:ARG:NH2	2.42	0.52
1:2:898:A:OP1	92:2:1971:OHX:N3	2.43	0.52
1:2:518:A:O2'	1:2:534:A:N6	2.42	0.52
1:2:885:G:H8	1:2:885:G:O5'	1.93	0.52
37:3:57:G:H3'	37:3:58:C:C6	2.45	0.52
85:5:1232:C:H2'	85:5:1233:G:H8	1.74	0.52
85:5:1802:C:H6	85:5:1802:C:O5'	1.92	0.52
85:5:2661:G:H2'	85:5:2662:G:C8	2.45	0.52
85:5:2846:U:C3'	85:5:2846:U:C6	2.92	0.52
40:L3:250:ALA:HB3	85:5:2880:U:H1'	223.12	0.52
85:5:3274:A:O2'	85:5:3275:U:C6	2.62	0.52
85:5:359:U:C4	85:5:360:G:C6	2.97	0.52
92:5:3670:OHX:N2	38:8:16:G:OP1	2.42	0.52
85:5:611:A:C8	85:5:612:U:C5	2.97	0.52
85:5:729:C:H6	85:5:729:C:O5'	1.92	0.52
49:M3:186:ARG:NH2	85:5:767:U:H5'	154.77	0.52
85:5:897:U:H2'	85:5:898:U:H6	1.75	0.52
80:6:1080:U:H2'	80:6:1081:A:C8	2.44	0.52
80:6:1125:A:N7	80:6:1126:G:H1'	2.23	0.52
80:6:1268:G:H1'	80:6:1448:G:H5''	1.91	0.52
38:8:6:U:H2'	38:8:7:U:C6	2.44	0.52
19:C7:27:ASP:OD2	19:C7:29:GLN:N	2.43	0.52
40:L3:102:LEU:HD23	40:L3:102:LEU:N	2.23	0.52
41:L4:206:LEU:O	41:L4:248:VAL:HA	2.10	0.52
46:L9:29:GLY:HA3	46:L9:82:VAL:HG13	2.41	0.52
47:M0:89:VAL:HG13	47:M0:136:PHE:HE1	1.73	0.52
49:M3:32:LYS:HA	49:M3:35:ARG:CZ	2.87	0.52
50:M4:54:PRO:O	50:M4:56:GLN:HG2	2.10	0.52
40:L3:261:MET:HG2	52:M6:64:PHE:HA	1.92	0.52
54:M8:63:SER:OG	54:M8:64:VAL:N	3.04	0.52
57:N1:90:ASN:O	57:N1:91:LEU:HD23	2.09	0.52
58:N2:99:LYS:HB2	58:N2:102:GLU:HB2	1.92	0.52
38:4:85:G:P	62:N6:113:LYS:NZ	2.83	0.52
69:O3:62:SER:OG	69:O3:63:LYS:N	2.83	0.52
71:O5:33:VAL:O	71:O5:36:LEU:HG	2.47	0.52
46:L9:162:GLN:HE22	76:Q0:89:TYR:HD1	1.78	0.52
79:Q3:24:ARG:O	79:Q3:27:LYS:N	2.71	0.52
2:S0:12:GLU:O	2:S0:16:LEU:HG	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S4:52:LEU:HD13	6:S4:54:TYR:CE2	2.45	0.52
8:S6:5:ILE:HD12	8:S6:16:PHE:CD2	2.45	0.52
8:S6:87:ARG:HH11	80:6:159:U:H1'	321.87	0.52
36:1:1104:G:H2'	36:1:1105:A:H8	1.74	0.52
36:1:1783:U:H2'	36:1:1784:G:C8	2.45	0.52
36:1:182:U:H2'	36:1:183:G:H8	1.74	0.52
36:1:1881:A:H2'	36:1:1882:G:H8	1.75	0.52
36:1:2206:G:H1	36:1:2237:C:H42	1.57	0.52
36:1:2507:C:H6	36:1:2507:C:OP2	1.93	0.52
36:1:2766:U:H2'	36:1:2767:U:C6	2.44	0.52
36:1:3218:A:H4'	36:1:3219:G:O5'	2.10	0.52
36:1:3358:U:H2'	36:1:3359:A:O4'	2.10	0.52
36:1:353:G:O2'	36:1:354:U:OP2	2.27	0.52
92:1:3565:OHX:N6	92:1:3578:OHX:N3	2.58	0.52
1:2:1008:A:H5'	1:2:1009:A:OP1	2.10	0.52
1:2:68:A:O5'	1:2:69:G:H5''	2.10	0.52
1:2:864:A:H2'	1:2:865:U:O4'	2.10	0.52
1:2:899:U:H3	16:C4:41:ARG:NH2	2.08	0.52
85:5:1096:U:H4'	85:5:1097:G:C5'	2.40	0.52
85:5:1572:U:HO2'	85:5:1573:G:H8	1.56	0.52
85:5:2770:G:H1	85:5:2788:C:H42	1.57	0.52
85:5:923:C:N4	85:5:926:A:H1'	2.25	0.52
80:6:1315:U:P	80:6:1328:G:H1	2.32	0.52
80:6:1561:U:H2'	80:6:1562:G:H8	1.74	0.52
10:S8:43:ILE:O	80:6:260:U:H5	276.93	0.52
80:6:526:A:N6	80:6:527:A:C6	2.78	0.52
16:C4:131:GLY:O	16:C4:134:GLY:N	2.62	0.52
21:C9:33:TYR:HH	21:C9:99:SER:HG	1.57	0.52
23:D1:74:GLN:NE2	23:D1:81:ASN:O	2.22	0.52
24:D2:93:LEU:O	24:D2:94:LEU:HD23	2.79	0.52
1:2:1738:A:H8	25:D3:63:GLN:HG3	1.74	0.52
25:D3:46:SER:OG	25:D3:78:LYS:NZ	3.31	0.52
26:D4:77:ASN:OD1	26:D4:77:ASN:N	3.96	0.52
27:D5:71:ILE:HG13	27:D5:73:GLY:H	8.43	0.52
1:2:1776:G:N2	28:D6:76:SER:OG	2.36	0.52
39:L2:206:PRO:HA	39:L2:212:GLY:HA3	2.39	0.52
40:L3:116:ARG:HG2	40:L3:175:LYS:HA	1.91	0.52
40:L3:332:ARG:NH1	40:L3:333:LYS:HD2	4.49	0.52
42:L5:261:THR:O	42:L5:264:GLN:HB2	2.10	0.52
44:L7:65:ALA:HB1	44:L7:76:TYR:CE1	3.47	0.52
46:L9:103:ILE:HG22	46:L9:104:VAL:N	2.52	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:M0:141:LYS:O	47:M0:143:SER:N	2.42	0.52
47:M0:32:ARG:HG3	47:M0:32:ARG:O	2.10	0.52
49:M3:57:VAL:N	49:M3:112:ASN:OD1	2.33	0.52
36:1:76:G:H3'	49:M3:73:ARG:HD3	1.92	0.52
51:M5:60:VAL:HG21	38:8:142:C:H4'	104.17	0.52
55:M9:15:VAL:CG1	55:M9:52:LYS:HD2	5.22	0.52
57:N1:79:MET:HB2	57:N1:84:TYR:CE2	5.12	0.52
59:N3:27:ASP:OD2	59:N3:29:SER:OG	2.22	0.52
62:N6:56:VAL:HG22	62:N6:104:LEU:HB3	1.92	0.52
65:N9:31:SER:OG	65:N9:33:LYS:N	3.34	0.52
36:1:1411:C:P	68:O2:98:HIS:HB3	2.50	0.52
2:S0:175:TYR:HE1	2:S0:197:ILE:HG22	2.84	0.52
2:S0:200:ASP:N	2:S0:200:ASP:OD1	2.42	0.52
6:S4:251:GLU:HB3	6:S4:255:ARG:NH2	2.25	0.52
7:S5:84:LYS:HG2	7:S5:92:ARG:NH1	2.18	0.52
9:S7:80:GLU:HA	9:S7:83:LYS:HE2	2.22	0.52
11:S9:83:VAL:O	11:S9:107:ARG:NE	3.10	0.52
11:S9:163:PRO:HB3	11:S9:169:PRO:HA	2.30	0.52
34:SR:302:PHE:HD1	34:SR:312:VAL:HG12	1.74	0.52
36:1:1124:U:O4	92:1:3648:OHX:N6	2.42	0.52
36:1:1557:A:N7	36:1:1559:A:N6	2.58	0.52
36:1:1582:C:HO2'	36:1:1583:A:P	2.33	0.52
36:1:1615:C:H2'	36:1:1616:U:C6	2.45	0.52
36:1:2419:A:C2	36:1:2420:C:C4	2.98	0.52
36:1:2615:G:OP1	92:1:3705:OHX:N4	2.42	0.52
36:1:3180:A:OP1	52:M6:171:LYS:NZ	2.42	0.52
1:2:1490:G:H2'	1:2:1491:U:C6	2.45	0.52
1:2:102:U:O4	1:2:360:A:H2'	2.10	0.52
1:2:488:G:OP1	1:2:488:G:H4'	2.08	0.52
38:4:121:U:O2'	38:4:122:U:H5'	2.09	0.52
85:5:1104:G:C2	85:5:1105:A:C8	2.98	0.52
85:5:1645:U:O4	85:5:1646:G:C6	2.63	0.52
85:5:2425:G:H2'	85:5:2426:U:O4'	2.10	0.52
85:5:2590:A:C6	85:5:2591:A:C5	2.97	0.52
85:5:3203:U:H2'	85:5:3204:C:C6	2.45	0.52
85:5:106:A:C2	85:5:325:A:N3	2.78	0.52
92:5:3591:OHX:N4	92:5:3705:OHX:N1	2.58	0.52
85:5:588:G:H21	85:5:611:A:C5'	2.22	0.52
80:6:514:G:C8	80:6:537:G:N2	2.77	0.52
80:6:55:A:N6	80:6:403:G:H1'	2.24	0.52
80:6:628:G:N1	80:6:970:A:OP2	2.22	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:C3:119:GLU:HA	15:C3:122:ILE:HD12	1.92	0.52
22:D0:57:ARG:HD3	22:D0:89:ARG:CD	2.36	0.52
24:D2:103:ILE:HD13	24:D2:126:LEU:HB2	1.92	0.52
32:E0:28:LYS:NZ	80:6:542:A:H61	427.01	0.52
32:E0:35:TYR:CE1	32:E0:39:LEU:HD13	5.32	0.52
40:L3:212:ASN:OD1	40:L3:212:ASN:N	2.56	0.52
41:L4:295:ILE:O	41:L4:297:SER:N	2.91	0.52
36:1:338:A:OP1	41:L4:47:ARG:HA	2.09	0.52
42:L5:151:GLN:HE22	42:L5:157:ALA:HB1	1.75	0.52
47:M0:210:ILE:HG23	47:M0:217:PHE:CG	3.24	0.52
48:M1:151:SER:O	48:M1:152:HIS:CB	3.10	0.52
48:M1:86:VAL:HG21	48:M1:112:LEU:HB3	1.90	0.52
51:M5:11:GLN:HG2	51:M5:44:ARG:NH2	2.24	0.52
41:L4:281:ILE:HG13	54:M8:125:ASP:CG	2.51	0.52
55:M9:92:GLN:HG2	55:M9:96:ILE:HD11	1.91	0.52
56:N0:1:MET:N	56:N0:32:SER:OG	6.71	0.52
56:N0:9:VAL:HG22	56:N0:61:ILE:HD12	1.92	0.52
61:N5:72:ALA:O	61:N5:76:VAL:HG23	2.10	0.52
64:N8:30:GLY:HA2	85:5:40:A:C5	177.57	0.52
61:N5:60:TYR:CE2	71:O5:26:LYS:HG3	3.51	0.52
36:1:361:A:H5'	73:O7:35:SER:OG	2.09	0.52
36:1:3120:C:C5	76:Q0:111:ARG:NH1	2.78	0.52
39:L2:180:LEU:HD13	79:Q3:18:TYR:CD1	3.02	0.52
2:S0:150:ASP:OD1	2:S0:165:ARG:NH2	2.43	0.52
9:S7:70:PHE:O	9:S7:74:GLN:HB2	2.85	0.52
11:S9:142:ASN:O	11:S9:144:PRO:HD3	2.09	0.52
11:S9:63:ASP:O	11:S9:66:ASP:HB2	2.10	0.52
18:C6:99:GLU:HG2	34:SR:57:PRO:HB2	3.19	0.52
36:1:2230:C:H6	36:1:2230:C:O5'	1.92	0.52
36:1:299:G:H22	72:O6:30:LYS:HD3	1.75	0.52
36:1:551:A:O2'	36:1:552:G:O5'	2.27	0.52
1:2:1162:G:C2	1:2:1444:C:N4	2.77	0.52
1:2:1639:U:C2	1:2:1641:G:H1'	2.45	0.52
1:2:314:C:C2	1:2:355:G:C2	2.98	0.52
85:5:1037:C:O2'	85:5:1038:C:H5'	2.10	0.52
85:5:1565:G:C2	85:5:1574:C:N3	2.78	0.52
85:5:1750:A:H4'	85:5:1751:G:H5'	1.92	0.52
85:5:2137:U:C6	85:5:2141:U:C4	2.98	0.52
85:5:2183:A:C5	85:5:2184:U:C5	2.98	0.52
45:L8:32:LYS:HB2	85:5:2561:A:N1	203.29	0.52
47:M0:22:TYR:HB3	85:5:2647:A:H4'	265.21	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:2859:U:H4'	85:5:2860:U:O5'	2.09	0.52
8:S6:87:ARG:NH1	80:6:159:U:H1'	321.54	0.52
80:6:1030:A:N7	80:6:1792:G:C2	2.78	0.52
80:6:591:A:H2'	80:6:592:A:H8	1.68	0.52
80:6:599:A:N7	80:6:600:U:C4	2.78	0.52
80:6:771:A:OP1	92:6:1938:OHX:N4	2.43	0.52
38:8:26:U:H2'	38:8:27:U:C6	2.45	0.52
38:8:46:G:N2	38:8:58:G:C4	2.78	0.52
21:C9:135:ILE:HG22	21:C9:138:GLN:NE2	2.24	0.52
1:2:1779:C:H5	28:D6:6:ALA:HB3	1.74	0.52
41:L4:219:LEU:C	41:L4:221:ASN:H	2.13	0.52
41:L4:229:ASN:C	41:L4:229:ASN:OD1	2.49	0.52
42:L5:108:ARG:CZ	42:L5:253:PHE:HB2	2.40	0.52
50:M4:94:TRP:CE2	50:M4:100:ALA:HB2	2.44	0.52
53:M7:146:ILE:HG22	53:M7:147:GLU:N	2.24	0.52
56:N0:132:THR:O	56:N0:133:ALA:HB3	2.37	0.52
59:N3:23:MET:HB2	59:N3:98:ASN:O	2.09	0.52
64:N8:61:PHE:HZ	85:5:283:G:H2'	149.14	0.52
70:O4:5:VAL:HG22	70:O4:6:THR:N	2.24	0.52
72:O6:63:ASN:O	72:O6:65:GLY:N	4.81	0.52
76:Q0:112:LYS:HZ3	85:5:3107:U:P	305.61	0.52
4:S2:98:PHE:O	4:S2:117:THR:HA	2.09	0.52
5:S3:163:PRO:O	5:S3:167:PHE:N	2.40	0.52
6:S4:140:VAL:HA	6:S4:145:ARG:O	2.10	0.52
34:SR:62:LYS:O	34:SR:92:TRP:HH2	1.93	0.52
36:1:1355:A:H4'	36:1:1356:U:C5'	2.40	0.51
36:1:1925:U:H4'	36:1:1926:C:OP2	2.10	0.51
36:1:198:A:N1	36:1:219:A:C4	2.78	0.51
36:1:2725:U:O3'	92:1:3662:OHX:N3	2.43	0.51
36:1:3078:U:H4'	36:1:3079:U:O5'	2.09	0.51
36:1:542:G:H1	36:1:549:U:H3	1.58	0.51
36:1:607:A:OP1	43:L6:24:ALA:N	2.24	0.51
36:1:668:G:H2'	36:1:669:U:H6	1.74	0.51
36:1:834:U:C5	36:1:835:G:C5	2.98	0.51
36:1:856:G:N7	36:1:857:G:C6	2.78	0.51
1:2:1428:G:N2	33:E1:90:LYS:O	2.43	0.51
1:2:1482:G:C6	1:2:1483:C:N3	2.78	0.51
1:2:1792:G:H21	1:2:1801:C:H5	1.58	0.51
1:2:1807:C:H2'	1:2:1808:A:H5''	1.91	0.51
1:2:246:G:C6	1:2:247:A:C6	2.99	0.51
1:2:333:A:C6	1:2:334:G:C6	2.98	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:634:G:C2	1:2:949:A:C6	2.97	0.51
38:4:156:U:H2'	38:4:157:U:O4'	2.10	0.51
85:5:1013:G:O6	92:5:3602:OHX:N3	2.43	0.51
85:5:1049:C:H2'	85:5:1050:U:C6	2.45	0.51
85:5:2221:G:N2	85:5:2224:A:OP2	2.32	0.51
85:5:2774:C:H2'	85:5:2775:U:H6	1.75	0.51
85:5:3154:C:C6	85:5:3156:U:H5'	2.45	0.51
85:5:3174:A:H2'	85:5:3175:U:H5'	1.91	0.51
19:C7:49:LYS:HA	80:6:1389:C:H4'	421.75	0.51
38:8:104:A:C8	38:8:105:A:C8	2.98	0.51
12:C0:81:ASN:ND2	12:C0:81:ASN:O	2.43	0.51
16:C4:81:VAL:HG22	16:C4:115:ILE:CG2	2.41	0.51
20:C8:28:ILE:HG13	20:C8:56:LYS:O	5.49	0.51
22:D0:71:PRO:HB3	31:D9:41:GLN:HG2	2.84	0.51
4:S2:145:GLY:HA3	24:D2:97:ARG:HH11	1.75	0.51
28:D6:85:ARG:H	80:6:1797:A:N6	340.38	0.51
14:C2:53:THR:HG21	33:E1:106:TYR:OH	2.32	0.51
39:L2:79:ASN:O	39:L2:82:VAL:HB	2.10	0.51
42:L5:160:PHE:CD2	42:L5:179:ARG:HB3	3.04	0.51
45:L8:73:PRO:HA	45:L8:76:ALA:HB3	1.91	0.51
46:L9:45:PHE:CD2	46:L9:55:VAL:HG12	2.44	0.51
47:M0:190:VAL:HG12	47:M0:197:VAL:HG11	3.20	0.51
45:L8:140:VAL:HG21	51:M5:3:ALA:HB2	1.91	0.51
61:N5:121:LYS:HD3	61:N5:123:TYR:OH	2.93	0.51
61:N5:103:TYR:O	61:N5:138:ARG:NH1	2.50	0.51
62:N6:12:ARG:HD3	85:5:215:G:H5''	87.43	0.51
64:N8:25:HIS:CG	64:N8:25:HIS:O	2.94	0.51
67:O1:44:MET:O	67:O1:77:ARG:NH1	2.43	0.51
69:O3:31:LYS:NZ	69:O3:32:ILE:O	3.92	0.51
71:O5:86:ARG:O	71:O5:90:ARG:HG2	2.17	0.51
3:S1:105:PHE:CD2	3:S1:213:ARG:HA	2.45	0.51
9:S7:100:PRO:O	9:S7:112:ARG:HD2	2.10	0.51
10:S8:151:LYS:HE2	10:S8:157:GLU:OE1	5.48	0.51
36:1:1016:C:O2'	36:1:1028:U:H5'	2.10	0.51
36:1:1132:C:C2	36:1:1133:A:C8	2.98	0.51
36:1:118:U:C5	36:1:119:U:C4	2.98	0.51
36:1:121:A:C6	45:L8:129:PRO:HG3	2.45	0.51
36:1:1386:A:C8	41:L4:183:LYS:HB3	2.45	0.51
36:1:314:U:H2'	36:1:315:C:C6	2.45	0.51
36:1:761:A:C6	36:1:762:U:C4	2.98	0.51
1:2:1271:G:N2	1:2:1310:C:N3	2.51	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1472:U:OP2	5:S3:9:ARG:NH2	2.40	0.51
85:5:106:A:H2	85:5:325:A:N3	2.09	0.51
39:L2:174:ARG:NH2	85:5:2180:G:OP1	210.74	0.51
85:5:24:G:H2'	85:5:25:U:O4'	2.10	0.51
85:5:2772:C:H1'	85:5:2773:C:OP2	2.09	0.51
85:5:3133:C:H2'	85:5:3134:A:O4'	2.10	0.51
85:5:3316:A:C4	85:5:3389:U:C5	2.98	0.51
85:5:638:C:N4	85:5:639:G:O6	2.43	0.51
80:6:1045:C:C2	80:6:1074:G:C2	2.98	0.51
80:6:1294:G:N2	80:6:1322:A:C5	2.78	0.51
80:6:1461:C:H2'	80:6:1462:G:C8	2.46	0.51
80:6:1490:C:OP1	80:6:1514:U:H5	1.93	0.51
80:6:197:A:H2'	80:6:198:A:C8	2.44	0.51
15:C3:104:ARG:NH2	80:6:950:C:H4'	278.34	0.51
15:C3:124:ARG:O	15:C3:127:ARG:N	2.43	0.51
19:C7:29:GLN:HB3	34:SR:85:TRP:HZ3	1.75	0.51
39:L2:48:ILE:O	39:L2:48:ILE:HG13	2.11	0.51
40:L3:37:ARG:O	40:L3:186:GLY:HA2	2.30	0.51
42:L5:286:VAL:O	42:L5:290:ILE:HG12	2.10	0.51
45:L8:42:PRO:HD2	45:L8:44:ARG:HH12	1.74	0.51
48:M1:28:ASP:HA	48:M1:31:THR:HG22	1.91	0.51
49:M3:165:SER:O	49:M3:166:ALA:HB3	2.10	0.51
50:M4:36:VAL:HG12	50:M4:37:GLU:N	2.25	0.51
46:L9:4:ILE:HG22	56:N0:142:GLN:OE1	2.78	0.51
40:L3:371:GLN:HG3	60:N4:14:TYR:CE1	3.86	0.51
63:N7:95:VAL:HG11	63:N7:113:VAL:HG21	2.38	0.51
64:N8:65:GLN:C	64:N8:67:HIS:N	2.59	0.51
65:N9:21:ILE:O	65:N9:22:LYS:HB2	4.71	0.51
68:O2:122:PRO:O	68:O2:123:LYS:HB2	4.54	0.51
70:O4:47:CYS:SG	70:O4:81:CYS:SG	3.09	0.51
72:O6:55:ARG:O	72:O6:58:ILE:HD13	2.10	0.51
79:Q3:50:GLY:O	79:Q3:51:ALA:HB3	2.23	0.51
4:S2:166:THR:HG23	4:S2:201:ASN:HB3	3.23	0.51
6:S4:173:ILE:N	6:S4:173:ILE:HD12	2.25	0.51
34:SR:131:ILE:HG23	34:SR:154:VAL:HG11	1.92	0.51
34:SR:224:ASN:O	34:SR:228:LYS:HA	2.83	0.51
36:1:1116:G:C4	36:1:2817:A:C2	2.99	0.51
36:1:1346:G:C2	36:1:1359:C:C2	2.98	0.51
36:1:1508:C:OP1	53:M7:127:ARG:NH2	2.42	0.51
36:1:1621:A:C6	36:1:1622:U:O4	2.63	0.51
36:1:1786:G:H2'	36:1:1787:A:C8	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2660:G:H5''	36:1:2750:U:O2'	2.10	0.51
36:1:2838:A:C2	36:1:2839:G:H1'	2.45	0.51
92:1:3537:OHX:N3	92:1:3654:OHX:N4	2.58	0.51
36:1:776:U:H5	36:1:2719:U:O2	1.93	0.51
36:1:829:U:H2'	36:1:894:G:O6	2.10	0.51
1:2:14:C:N4	1:2:1123:G:H1	2.07	0.51
1:2:1154:A:H2'	1:2:1155:G:C8	2.45	0.51
1:2:1433:U:H2'	1:2:1434:C:H6	1.75	0.51
1:2:460:A:H3'	1:2:461:G:H8	1.75	0.51
1:2:656:G:O6	1:2:662:U:H1'	2.10	0.51
1:2:855:G:H2'	1:2:856:U:O4'	2.10	0.51
1:2:94:U:HO2'	6:S4:8:HIS:CE1	2.27	0.51
37:3:92:A:C5	37:3:93:C:H1'	2.45	0.51
38:4:11:C:H2'	38:4:12:A:H8	1.75	0.51
85:5:1096:U:H4'	85:5:1097:G:H5'	1.92	0.51
85:5:1717:U:H2'	85:5:1718:G:C8	2.45	0.51
85:5:2510:U:O2'	85:5:2511:A:H5''	2.11	0.51
46:L9:73:SER:OG	85:5:3113:A:OP1	338.02	0.51
85:5:327:A:C5	85:5:328:U:C5	2.98	0.51
92:5:3591:OHX:N6	92:5:3705:OHX:N2	2.59	0.51
85:5:651:G:H3'	92:5:3671:OHX:N6	2.25	0.51
80:6:1182:U:O2	80:6:1184:A:H8	1.92	0.51
80:6:1603:U:H2'	80:6:1604:U:C6	2.44	0.51
80:6:775:G:C2	80:6:786:C:N3	2.78	0.51
13:C1:36:LYS:O	13:C1:44:THR:HG21	2.10	0.51
15:C3:110:ASP:O	15:C3:113:PHE:HB3	2.32	0.51
19:C7:15:ALA:O	19:C7:19:ARG:HG2	2.09	0.51
20:C8:23:ASP:HB3	20:C8:26:ILE:CD1	5.21	0.51
21:C9:61:VAL:O	21:C9:65:ILE:HG13	2.11	0.51
24:D2:103:ILE:HG12	24:D2:104:LEU:N	2.26	0.51
26:D4:27:VAL:HG21	26:D4:40:LEU:HD11	1.93	0.51
27:D5:44:GLN:O	27:D5:47:TYR:HB3	2.41	0.51
33:E1:143:LYS:N	80:6:1253:U:H4'	449.18	0.51
40:L3:36:ASP:OD2	40:L3:39:LYS:HG2	2.09	0.51
41:L4:29:PRO:HB3	54:M8:25:TYR:CE2	3.92	0.51
41:L4:362:ASP:OD1	41:L4:362:ASP:N	2.57	0.51
42:L5:107:ARG:NH1	42:L5:248:ARG:NH2	4.05	0.51
44:L7:108:LEU:HD22	44:L7:114:GLY:HA2	2.64	0.51
44:L7:132:PRO:HA	44:L7:229:PHE:CD1	2.46	0.51
36:1:2898:G:OP1	46:L9:173:ARG:NH2	2.43	0.51
51:M5:14:LYS:HA	51:M5:19:LEU:HD23	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:M6:76:PRO:O	52:M6:77:SER:C	2.62	0.51
58:N2:20:SER:O	58:N2:23:THR:N	2.42	0.51
60:N4:50:ALA:HA	60:N4:55:PHE:CE1	2.45	0.51
62:N6:58:VAL:HG22	62:N6:104:LEU:CD2	2.65	0.51
38:4:23:U:H1'	62:N6:17:LYS:HG2	1.92	0.51
70:O4:46:ASP:OD1	70:O4:46:ASP:N	2.66	0.51
70:O4:5:VAL:HG21	70:O4:32:ALA:HB2	1.93	0.51
71:O5:9:LEU:C	71:O5:11:THR:H	2.14	0.51
3:S1:110:LEU:HD11	3:S1:213:ARG:HD2	2.92	0.51
6:S4:49:ARG:NH1	80:6:447:U:OP1	381.93	0.51
36:1:1722:U:C4	36:1:1723:A:C8	2.98	0.51
36:1:251:G:O3'	36:1:252:U:H4'	2.09	0.51
36:1:496:C:H6	36:1:496:C:O5'	1.93	0.51
36:1:653:A:C2	36:1:1443:G:C4	2.98	0.51
36:1:835:G:HO2'	36:1:857:G:H22	1.55	0.51
36:1:926:A:H2'	36:1:927:C:C6	2.45	0.51
1:2:1205:C:H2'	1:2:1206:A:O4'	2.10	0.51
1:2:12:U:OP1	92:2:2038:OHX:N3	2.43	0.51
1:2:1612:G:H2'	1:2:1613:U:C6	2.46	0.51
1:2:685:G:C6	1:2:720:A:N6	2.78	0.51
38:4:150:G:O3'	45:L8:60:ARG:NH2	2.43	0.51
43:L6:26:ARG:HH22	85:5:607:A:P	248.91	0.51
85:5:677:A:H4'	85:5:678:G:O5'	2.10	0.51
80:6:1109:G:C6	80:6:1110:G:N7	2.79	0.51
80:6:151:G:H1	80:6:163:G:H1	1.57	0.51
37:7:87:G:OP2	92:7:209:OHX:N6	2.42	0.51
12:C0:49:LEU:HB3	12:C0:55:VAL:CG1	2.82	0.51
15:C3:20:ARG:HD3	24:D2:56:HIS:CD2	5.50	0.51
15:C3:72:MET:HA	15:C3:75:LEU:HD12	4.83	0.51
23:D1:10:GLU:HG2	23:D1:10:GLU:O	4.90	0.51
27:D5:56:THR:N	27:D5:103:ARG:HH11	2.03	0.51
28:D6:71:LEU:HD13	28:D6:73:TYR:OH	3.66	0.51
31:D9:22:ARG:HG2	31:D9:38:ILE:HD13	3.92	0.51
40:L3:169:THR:HG22	40:L3:171:LEU:H	1.74	0.51
40:L3:171:LEU:HD21	40:L3:333:LYS:HG2	1.92	0.51
40:L3:218:ILE:HG12	40:L3:276:THR:HG23	1.92	0.51
40:L3:232:ARG:HD2	40:L3:268:GLY:O	2.10	0.51
42:L5:270:LYS:O	42:L5:273:ARG:HB3	2.79	0.51
44:L7:221:LYS:HB2	44:L7:227:GLY:HA3	1.91	0.51
36:1:2561:A:C2	45:L8:32:LYS:HD2	2.45	0.51
49:M3:168:ARG:HG3	49:M3:172:LEU:HD12	3.34	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:M7:129:THR:HG23	53:M7:139:TYR:HB2	1.91	0.51
54:M8:103:ALA:HB3	54:M8:106:PHE:CE2	3.01	0.51
56:N0:128:GLU:O	56:N0:130:GLU:N	3.09	0.51
58:N2:34:ALA:O	58:N2:38:ILE:HD12	2.10	0.51
36:1:15:C:H5''	61:N5:42:ARG:HG3	1.91	0.51
62:N6:35:LEU:HD12	62:N6:45:ILE:O	2.11	0.51
64:N8:6:THR:CG2	64:N8:8:THR:HG23	2.41	0.51
65:N9:14:ARG:CZ	65:N9:18:ARG:HD3	2.77	0.51
66:O0:15:ALA:O	66:O0:18:ILE:HG22	2.49	0.51
70:O4:29:ILE:HD11	70:O4:31:ARG:HH21	1.75	0.51
36:1:2216:G:P	72:O6:75:LYS:HZ3	2.22	0.51
74:O8:7:ASP:HB3	74:O8:10:GLN:HB3	2.85	0.51
78:Q2:12:CYS:HB3	78:Q2:17:CYS:HB3	2.17	0.51
4:S2:227:PRO:HA	4:S2:230:TRP:CG	2.46	0.51
7:S5:25:LEU:HD21	7:S5:29:ILE:HD12	3.60	0.51
8:S6:88:ARG:HG2	8:S6:91:GLU:HB2	3.84	0.51
36:1:112:U:O2'	36:1:113:C:P	2.69	0.51
36:1:1543:G:OP1	51:M5:35:VAL:HG23	2.10	0.51
36:1:1945:A:H2'	36:1:1946:A:C8	2.45	0.51
36:1:2259:A:OP2	92:1:3470:OHX:N2	2.44	0.51
36:1:2393:G:HO2'	36:1:2394:G:P	2.32	0.51
36:1:3187:A:C2	36:1:3188:G:C4	2.99	0.51
36:1:1743:G:O6	92:1:3626:OHX:N2	2.43	0.51
36:1:384:A:H2'	36:1:385:A:C8	2.45	0.51
36:1:63:A:H8	36:1:63:A:O5'	1.92	0.51
1:2:1573:G:H2'	1:2:1574:C:C6	2.44	0.51
1:2:534:A:H5'	1:2:535:A:OP2	2.10	0.51
85:5:1161:G:C6	85:5:1162:U:C4	2.98	0.51
85:5:123:A:C6	85:5:150:A:C5	2.99	0.51
85:5:1412:G:H8	85:5:1412:G:O5'	1.93	0.51
85:5:2841:G:C8	85:5:2844:C:N4	2.79	0.51
85:5:2898:G:H5''	85:5:2899:C:C5'	2.41	0.51
50:M4:121:MET:HG3	85:5:3214:U:C4	281.89	0.51
85:5:597:G:C2	85:5:598:A:C8	2.99	0.51
10:S8:170:SER:OG	80:6:209:U:O3'	279.11	0.51
80:6:395:U:O4	80:6:396:G:C6	2.64	0.51
80:6:467:G:H5''	80:6:468:A:P	2.49	0.51
14:C2:45:LEU:HB2	80:6:1228:G:OP1	461.85	0.51
16:C4:126:THR:O	16:C4:126:THR:OG1	2.28	0.51
16:C4:85:ALA:HB2	16:C4:94:PRO:HA	2.39	0.51
17:C5:78:THR:OG1	17:C5:80:MET:N	2.97	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:D3:103:LEU:N	25:D3:126:LYS:O	3.23	0.51
25:D3:137:LYS:O	25:D3:138:GLU:HB2	2.11	0.51
31:D9:24:CYS:SG	31:D9:39:CYS:SG	3.58	0.51
39:L2:181:LYS:HB2	85:5:860:G:C6	212.98	0.51
39:L2:214:GLY:O	39:L2:215:ASN:HB2	4.69	0.51
39:L2:46:LYS:O	39:L2:47:GLN:HB2	2.09	0.51
39:L2:7:ASN:O	85:5:2163:C:H4'	185.76	0.51
40:L3:200:GLU:O	40:L3:200:GLU:OE1	2.28	0.51
40:L3:317:ILE:O	40:L3:317:ILE:HG22	2.09	0.51
41:L4:215:ILE:HG23	41:L4:216:VAL:N	2.26	0.51
44:L7:126:LEU:O	44:L7:129:LEU:N	2.95	0.51
44:L7:134:VAL:O	44:L7:229:PHE:HA	2.64	0.51
45:L8:136:LEU:HD12	45:L8:162:LEU:HD22	1.91	0.51
46:L9:86:TYR:CD2	46:L9:151:VAL:HG22	2.51	0.51
46:L9:18:VAL:O	50:M4:5:SER:HB3	2.93	0.51
47:M0:71:CYS:SG	47:M0:72:ALA:N	3.69	0.51
48:M1:38:GLU:O	48:M1:42:GLY:N	2.41	0.51
49:M3:92:THR:HB	71:O5:114:ARG:HG2	1.92	0.51
53:M7:31:GLU:CG	53:M7:60:PHE:HA	3.20	0.51
55:M9:115:ILE:HD12	55:M9:142:ILE:HD13	1.91	0.51
62:N6:60:ARG:HB2	62:N6:103:LYS:HB3	2.14	0.51
62:N6:35:LEU:HD23	62:N6:106:ILE:HB	2.36	0.51
45:L8:26:LEU:HD22	63:N7:66:THR:HG21	1.93	0.51
66:O0:76:GLU:O	66:O0:80:ALA:N	2.99	0.51
68:O2:112:ALA:O	68:O2:115:LEU:N	3.37	0.51
71:O5:21:LEU:O	71:O5:22:VAL:C	2.83	0.51
73:O7:76:ASN:O	73:O7:79:GLN:HG3	2.23	0.51
85:5:2819:A:HO2'	98:P:101:8AN:C2	220.30	0.51
79:Q3:56:THR:HG22	79:Q3:63:THR:HG23	1.93	0.51
2:S0:22:THR:HG22	2:S0:169:SER:HA	2.00	0.51
2:S0:53:THR:OG1	2:S0:161:PRO:HG2	2.36	0.51
2:S0:63:ILE:HG12	23:D1:36:VAL:HG22	2.06	0.51
3:S1:181:LEU:O	3:S1:185:THR:N	2.28	0.51
3:S1:58:SER:O	3:S1:62:LYS:HG3	2.10	0.51
3:S1:99:ASN:OD1	3:S1:100:PHE:N	2.39	0.51
6:S4:172:PHE:CD2	6:S4:172:PHE:O	2.63	0.51
7:S5:112:ARG:HH11	18:C6:43:ILE:CD1	3.30	0.51
8:S6:167:LYS:HE2	80:6:73:U:C5	371.63	0.51
8:S6:189:HIS:NE2	8:S6:193:LEU:HD12	2.25	0.51
9:S7:143:LEU:O	24:D2:42:GLN:NE2	2.44	0.51
1:2:397:A:H4'	10:S8:50:GLY:HA2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:S9:153:GLU:O	11:S9:156:ILE:HG13	2.11	0.51
11:S9:57:ARG:HG3	11:S9:97:LEU:HD21	1.93	0.51
34:SR:21:THR:OG1	34:SR:69:GLN:O	3.26	0.51
36:1:2184:U:O2	36:1:2184:U:H2'	2.09	0.51
36:1:2407:C:H1'	36:1:2818:U:O2	2.09	0.51
36:1:3325:G:C4	36:1:3326:G:C8	2.99	0.51
36:1:870:G:O6	92:1:3458:OHX:N4	2.44	0.51
92:1:3500:OHX:N5	92:1:3605:OHX:N5	2.58	0.51
36:1:601:U:H2'	36:1:602:A:O4'	2.09	0.51
36:1:861:C:H2'	36:1:862:U:H6	1.76	0.51
1:2:116:U:H2'	1:2:117:U:C5	2.46	0.51
1:2:580:A:C6	1:2:583:C:C2	2.98	0.51
37:3:64:A:H3'	47:M0:204:GLY:O	2.10	0.51
85:5:1464:G:N1	85:5:1467:A:OP2	2.43	0.51
85:5:3107:U:H2'	85:5:3108:G:H8	1.76	0.51
85:5:313:A:C6	85:5:314:U:C4	2.98	0.51
92:5:3565:OHX:N6	92:5:3574:OHX:N5	2.58	0.51
80:6:45:U:C2	80:6:436:A:N6	2.78	0.51
80:6:493:U:O2	80:6:494:U:H5	1.94	0.51
13:C1:98:ASN:C	13:C1:99:ARG:HG2	2.31	0.51
18:C6:5:PRO:HB2	18:C6:96:TYR:CE2	3.15	0.51
2:S0:185:ARG:CB	23:D1:45:ALA:H	2.23	0.51
26:D4:51:GLU:OE2	26:D4:53:ASP:N	2.37	0.51
26:D4:60:PHE:CD1	26:D4:71:GLY:HA3	2.49	0.51
28:D6:88:SER:OG	28:D6:91:ASP:HB2	3.49	0.51
36:1:2947:G:C4	40:L3:250:ALA:HB1	2.44	0.51
40:L3:27:ALA:HB3	40:L3:218:ILE:HG22	2.70	0.51
41:L4:157:GLU:HG2	41:L4:209:TYR:HB2	1.93	0.51
41:L4:84:ARG:O	41:L4:87:GLN:HG3	2.11	0.51
42:L5:122:VAL:C	42:L5:124:GLU:H	3.47	0.51
42:L5:103:LEU:HG	42:L5:247:ILE:HG21	3.21	0.51
42:L5:59:ASP:CG	42:L5:60:ILE:N	3.52	0.51
42:L5:82:GLU:OE2	42:L5:108:ARG:NH1	2.40	0.51
42:L5:95:TRP:CH2	42:L5:181:PRO:HD3	5.13	0.51
44:L7:189:ILE:HG23	44:L7:190:THR:HG23	2.08	0.51
45:L8:116:VAL:HG13	45:L8:121:SER:O	2.09	0.51
48:M1:137:ARG:HG2	37:7:28:C:H5"	308.03	0.51
49:M3:81:LYS:C	49:M3:83:ALA:N	3.05	0.51
41:L4:30:ILE:O	54:M8:25:TYR:HE2	1.93	0.51
56:N0:113:ARG:HB2	56:N0:114:HIS:CD2	2.46	0.51
64:N8:69:TRP:O	64:N8:70:LYS:HB2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
73:O7:48:ASN:HA	73:O7:54:LYS:HZ3	3.62	0.51
3:S1:180:THR:OG1	3:S1:181:LEU:N	4.14	0.51
6:S4:117:GLU:HG2	6:S4:118:GLU:H	3.29	0.51
7:S5:105:GLY:O	80:6:1609:U:O2'	375.65	0.51
9:S7:67:LEU:HD22	9:S7:71:HIS:CE1	2.46	0.51
34:SR:159:ASN:ND2	34:SR:166:SER:O	2.43	0.51
34:SR:164:ASP:C	34:SR:166:SER:H	2.13	0.51
34:SR:278:PHE:CE2	34:SR:287:PRO:HG2	2.46	0.51
36:1:1069:C:N3	36:1:1090:G:C2	2.79	0.51
36:1:118:U:N3	36:1:122:A:OP2	2.41	0.51
36:1:1458:U:O2'	36:1:1459:C:H5'	2.11	0.51
36:1:181:U:H4'	73:O7:75:LYS:HD2	1.92	0.51
36:1:2206:G:H1	36:1:2237:C:N4	2.09	0.51
36:1:2353:G:C6	36:1:2354:C:C4	2.98	0.51
36:1:2608:G:H2'	36:1:2609:A:H8	1.76	0.51
36:1:2636:A:H5''	36:1:2637:A:H5'	1.93	0.51
36:1:3188:G:O6	92:1:3713:OHX:N3	2.44	0.51
36:1:3375:A:O2'	36:1:3378:C:OP2	2.29	0.51
36:1:709:A:H8	36:1:709:A:O5'	1.93	0.51
36:1:979:U:C2	36:1:980:A:C4	2.98	0.51
1:2:1390:U:H2'	1:2:1391:G:O4'	2.10	0.51
1:2:1752:U:OP2	92:2:2027:OHX:N4	2.43	0.51
1:2:1784:U:H2'	1:2:1785:A:C8	2.46	0.51
1:2:324:U:N3	1:2:325:G:N7	2.59	0.51
1:2:48:G:C5	1:2:49:C:C5	2.98	0.51
85:5:1081:U:HO2'	85:5:1082:U:C5'	2.24	0.51
85:5:151:A:H2'	85:5:152:U:O4'	2.09	0.51
85:5:1715:A:H4'	85:5:1716:U:H3'	1.93	0.51
85:5:2440:G:O2'	85:5:2441:A:OP1	2.28	0.51
85:5:3200:G:H2'	85:5:3201:C:C6	2.46	0.51
85:5:438:A:C8	85:5:439:C:H5	2.28	0.51
54:M8:141:ARG:HH11	85:5:727:G:N2	178.00	0.51
33:E1:146:SER:HB3	80:6:1234:A:H4'	433.72	0.51
8:S6:179:VAL:HG21	80:6:140:A:H1'	327.38	0.51
80:6:143:G:C6	80:6:173:A:N1	2.79	0.51
80:6:144:U:H3'	80:6:145:A:H5''	1.93	0.51
35:SM:68:ARG:HD3	80:6:1460:A:OP2	333.99	0.51
80:6:93:A:C6	80:6:398:G:C6	2.99	0.51
12:C0:61:TRP:O	12:C0:62:GLN:HB2	2.09	0.51
13:C1:96:LYS:HD3	13:C1:97:TYR:CE2	2.90	0.51
14:C2:33:ARG:HG2	14:C2:36:LEU:HD12	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:C2:33:ARG:HA	14:C2:36:LEU:HB2	1.92	0.51
19:C7:74:GLN:O	19:C7:78:ARG:HD3	2.11	0.51
21:C9:31:PRO:CG	21:C9:103:LYS:HD3	2.41	0.51
23:D1:1:MET:SD	23:D1:10:GLU:HB3	2.51	0.51
26:D4:60:PHE:CG	26:D4:71:GLY:HA3	2.59	0.51
26:D4:77:ASN:O	26:D4:78:SER:HB3	2.33	0.51
40:L3:192:VAL:O	40:L3:196:ARG:N	2.89	0.51
47:M0:60:LEU:HD12	47:M0:129:VAL:HG21	1.92	0.51
48:M1:138:VAL:HG12	48:M1:139:THR:HG22	1.92	0.51
51:M5:23:GLN:HG2	51:M5:122:ASN:HD21	1.76	0.51
54:M8:158:HIS:H	54:M8:186:VAL:CG1	2.23	0.51
54:M8:93:ILE:HD12	54:M8:93:ILE:H	4.48	0.51
63:N7:34:LYS:HA	63:N7:34:LYS:HE3	1.93	0.51
63:N7:11:ALA:HB1	63:N7:80:LEU:HB3	1.92	0.51
36:1:1433:A:N3	68:O2:27:ARG:NH1	2.59	0.51
36:1:634:C:H4'	68:O2:47:ARG:HH11	1.76	0.51
69:O3:69:GLY:HA3	69:O3:85:PHE:HA	2.76	0.51
75:O9:10:LYS:HA	75:O9:13:MET:HE3	2.24	0.51
79:Q3:46:THR:HB	79:Q3:58:SER:HB3	3.39	0.51
79:Q3:8:VAL:HG23	79:Q3:9:GLY:N	2.25	0.51
4:S2:99:LYS:HA	4:S2:117:THR:HA	2.22	0.51
4:S2:170:ILE:HG12	4:S2:197:TYR:O	5.41	0.51
4:S2:179:VAL:HG11	80:6:2:A:H3'	390.78	0.51
5:S3:107:PHE:O	5:S3:111:ASN:HB2	2.32	0.51
5:S3:156:PHE:HE1	80:6:1326:A:O3'	419.66	0.51
6:S4:198:LYS:HE2	6:S4:222:LEU:HD11	1.91	0.51
9:S7:120:ALA:O	9:S7:124:LYS:HG2	2.89	0.51
34:SR:265:LEU:HA	34:SR:268:GLN:HG2	1.92	0.51
34:SR:33:LEU:HB3	34:SR:45:TRP:HB2	1.92	0.51
36:1:1362:G:O2'	44:L7:159:GLN:HA	2.11	0.51
36:1:1369:A:H2'	36:1:1370:G:O4'	2.10	0.51
36:1:1523:U:C6	61:N5:123:TYR:HE2	2.29	0.51
36:1:1620:U:H2'	36:1:1621:A:C8	2.45	0.51
36:1:1719:G:H4'	36:1:1732:U:H4'	1.91	0.51
36:1:2655:U:C2	36:1:2656:A:N1	2.79	0.51
36:1:2771:U:H2'	36:1:2772:C:C2	2.45	0.51
36:1:2812:C:H2'	36:1:2813:A:C8	2.46	0.51
92:1:3600:OHX:N5	92:1:3648:OHX:N6	2.59	0.51
1:2:1068:G:N2	1:2:1070:A:H3'	2.26	0.51
1:2:1480:U:C4	1:2:1494:U:O2	2.64	0.51
1:2:209:U:H2'	1:2:210:A:C8	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:783:U:H2'	1:2:784:G:H8	1.75	0.51
38:4:106:C:O2'	92:4:216:OHX:N4	2.43	0.51
85:5:127:G:H2'	85:5:128:G:C8	2.46	0.51
85:5:659:G:C6	85:5:1432:C:C2	2.99	0.51
85:5:2134:G:C6	85:5:2147:A:C2	2.99	0.51
85:5:2404:A:C8	85:5:2404:A:H5''	2.46	0.51
40:L3:65:SER:OG	85:5:3039:C:OP1	278.15	0.51
92:5:3566:OHX:N1	92:5:3640:OHX:N2	2.59	0.51
80:6:643:G:H1	80:6:691:C:N4	2.09	0.51
17:C5:77:ARG:HB3	17:C5:102:PHE:CE1	3.17	0.51
18:C6:132:LYS:HB3	18:C6:138:PHE:HE1	2.09	0.51
18:C6:57:LEU:H	18:C6:57:LEU:HD12	3.87	0.51
18:C6:9:THR:HA	80:6:1340:U:O4	433.57	0.51
24:D2:30:SER:HB2	24:D2:61:ILE:HG13	1.91	0.51
26:D4:56:SER:HB3	26:D4:74:LEU:HD12	1.92	0.51
39:L2:139:HIS:O	39:L2:140:ASN:HB2	3.76	0.51
39:L2:133:TYR:HB3	39:L2:168:VAL:HG12	2.65	0.51
39:L2:30:ARG:HA	39:L2:74:GLU:OE2	2.66	0.51
39:L2:70:ARG:CZ	39:L2:72:ARG:HH21	6.81	0.51
40:L3:7:GLU:HG2	85:5:2915:U:H5	256.09	0.51
37:3:121:U:H3	42:L5:268:GLU:HB3	1.75	0.51
42:L5:270:LYS:HG3	42:L5:273:ARG:CB	5.58	0.51
42:L5:40:HIS:HB3	42:L5:43:LYS:HG3	1.93	0.51
42:L5:64:ILE:HB	42:L5:76:ALA:HB3	1.92	0.51
46:L9:111:PHE:CD1	46:L9:127:PRO:HA	2.45	0.51
36:1:3122:A:N1	46:L9:70:THR:HG21	2.25	0.51
51:M5:79:ALA:HB1	51:M5:81:TYR:CZ	2.46	0.51
44:L7:92:ILE:HD11	54:M8:4:ASP:HB2	1.93	0.51
64:N8:128:ARG:O	64:N8:129:PHE:HB2	3.81	0.51
64:N8:83:PRO:O	64:N8:87:ARG:N	2.42	0.51
72:O6:45:ARG:NH2	72:O6:54:GLU:OE2	2.47	0.51
73:O7:87:SER:C	92:O7:102:OHX:N1	2.64	0.51
2:S0:167:LYS:HG2	2:S0:168:HIS:NE2	2.25	0.51
3:S1:150:VAL:HG13	80:6:1067:C:H5''	352.52	0.51
5:S3:145:ALA:N	35:SM:101:ASP:OD2	2.44	0.51
6:S4:10:LYS:HD2	80:6:382:C:P	353.31	0.51
6:S4:87:MET:O	6:S4:122:LYS:HE3	2.11	0.51
8:S6:137:ARG:HB2	8:S6:140:ASN:HB2	3.88	0.51
8:S6:147:LEU:O	8:S6:148:SER:OG	2.23	0.51
9:S7:48:GLU:OE2	9:S7:88:ARG:NH2	2.43	0.51
11:S9:65:LYS:HA	11:S9:70:LEU:HD11	2.56	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:SR:116:ASP:OD2	34:SR:120:SER:N	2.26	0.51
34:SR:158:PRO:O	34:SR:208:GLY:HA3	2.34	0.51
36:1:108:A:HO2'	36:1:323:A:H61	1.58	0.51
36:1:1093:A:OP1	36:1:1093:A:H4'	2.10	0.51
36:1:124:U:H2'	36:1:125:C:H6	1.75	0.51
36:1:1184:A:C2	36:1:1323:G:C4	2.98	0.51
36:1:1525:G:C5	36:1:1829:G:C6	2.99	0.51
36:1:1694:U:N3	36:1:1695:U:C4	2.78	0.51
36:1:2712:U:H2'	36:1:2713:U:C6	2.46	0.51
36:1:1895:A:O2'	36:1:3053:G:H4'	2.11	0.51
36:1:3111:U:H5'	46:L9:155:SER:OG	2.11	0.51
36:1:345:G:O6	36:1:348:A:OP1	2.29	0.51
36:1:433:A:H2'	36:1:434:U:O4'	2.11	0.51
36:1:643:U:C4	36:1:644:G:C5	2.99	0.51
36:1:981:U:O2'	36:1:982:C:OP1	2.23	0.51
1:2:1213:A:H2'	1:2:1241:U:C5	2.40	0.51
1:2:1332:G:H2'	1:2:1333:U:C6	2.46	0.51
1:2:1519:G:N1	1:2:1521:U:C2	2.79	0.51
1:2:1768:U:O2'	1:2:1769:G:H5'	2.11	0.51
1:2:1791:G:N2	1:2:1802:C:H41	2.09	0.51
1:2:719:C:N4	1:2:720:A:H62	2.08	0.51
38:4:124:G:H3'	38:4:125:U:C5'	2.39	0.51
85:5:1843:C:H2'	85:5:1844:C:H6	1.75	0.51
85:5:311:C:N4	85:5:2778:G:H1	2.08	0.51
85:5:286:U:H2'	85:5:287:G:H8	1.74	0.51
85:5:3195:U:H4'	85:5:3196:U:OP2	2.10	0.51
85:5:589:A:N7	85:5:610:G:O2'	2.35	0.51
80:6:1171:A:H2'	80:6:1172:G:C8	2.45	0.51
19:C7:60:ARG:NH2	80:6:1400:A:H5'	409.81	0.51
31:D9:13:ARG:NH2	80:6:1554:U:OP1	412.36	0.51
80:6:456:A:N6	80:6:457:G:C6	2.79	0.51
37:7:64:A:H5'	37:7:65:G:H5''	1.92	0.51
17:C5:111:MET:HG2	20:C8:119:ILE:CG1	3.92	0.51
7:S5:166:ARG:HB2	30:D8:46:GLY:HA3	1.92	0.51
30:D8:12:VAL:HB	30:D8:51:ASN:H	2.78	0.51
41:L4:332:LYS:O	41:L4:336:ALA:HB2	2.11	0.51
45:L8:24:ASN:O	45:L8:26:LEU:N	3.85	0.51
49:M3:106:GLN:HB2	72:O6:20:MET:HG3	1.93	0.51
49:M3:27:ASP:O	49:M3:31:LYS:HB2	2.84	0.51
76:Q0:94:SER:OG	76:Q0:104:PRO:O	2.28	0.51
79:Q3:33:GLN:HG3	79:Q3:34:HIS:CD2	2.49	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:Q3:9:GLY:HA2	85:5:837:A:OP1	240.97	0.51
2:S0:150:ASP:OD2	2:S0:165:ARG:NH2	3.56	0.51
5:S3:108:LYS:O	5:S3:113:LEU:HB2	3.09	0.51
8:S6:13:GLN:OE1	80:6:151:G:N2	309.90	0.51
1:2:471:A:O3'	11:S9:10:LYS:HA	2.10	0.51
35:SM:102:THR:HG23	35:SM:105:LYS:HB2	1.92	0.51
36:1:1346:G:N2	36:1:1359:C:C2	2.79	0.51
36:1:1352:A:H4'	36:1:1353:U:OP1	2.11	0.51
36:1:1408:G:O2'	36:1:1409:G:H5'	2.11	0.51
36:1:1456:A:N7	67:O1:26:LYS:HE2	2.26	0.51
36:1:1491:A:N6	36:1:1838:G:N2	2.59	0.51
36:1:2299:A:C5	36:1:2300:G:N7	2.79	0.51
36:1:880:G:C6	53:M7:133:HIS:CE1	2.99	0.51
36:1:929:A:C6	36:1:930:U:C4	2.99	0.51
1:2:1236:U:H4'	33:E1:143:LYS:N	2.26	0.51
1:2:629:U:C4	1:2:630:A:N7	2.79	0.51
1:2:723:A:C2'	1:2:724:C:H5''	2.38	0.51
38:4:67:U:H2'	38:4:68:G:H8	1.76	0.51
85:5:1046:A:H2'	85:5:1049:C:C5	2.45	0.51
85:5:1169:A:N6	85:5:1170:A:N1	2.59	0.51
85:5:1716:U:HO2'	85:5:1717:U:P	2.34	0.51
85:5:176:G:H2'	85:5:177:U:C6	2.46	0.51
78:Q2:3:ASN:N	85:5:2655:U:OP2	238.86	0.51
64:N8:61:PHE:CE1	85:5:283:G:N9	145.49	0.51
85:5:2957:G:C6	85:5:2976:A:C2	2.99	0.51
85:5:645:A:C8	85:5:649:A:N6	2.79	0.51
8:S6:15:THR:HG23	80:6:152:U:O2'	308.27	0.51
80:6:52:U:H2'	80:6:53:G:H8	1.77	0.51
80:6:5:U:H2'	80:6:6:G:H8	1.76	0.51
85:5:406:G:H1'	38:8:16:G:N2	2.26	0.51
14:C2:67:THR:HG22	14:C2:68:GLU:HG3	2.23	0.51
21:C9:89:ARG:HB3	21:C9:90:PRO:HD2	1.92	0.51
22:D0:37:VAL:HG11	22:D0:112:VAL:HG11	3.91	0.51
32:E0:48:THR:OG1	32:E0:49:LEU:N	2.72	0.51
1:2:1219:A:C1'	33:E1:138:ARG:HH22	2.23	0.51
40:L3:114:VAL:O	40:L3:115:LYS:C	3.01	0.51
42:L5:111:GLN:HA	42:L5:116:ASP:HB2	1.93	0.51
44:L7:156:ILE:HB	44:L7:161:VAL:HG21	1.91	0.51
45:L8:244:ALA:O	45:L8:248:LYS:N	3.67	0.51
48:M1:116:TYR:HD1	48:M1:118:PRO:HD3	3.28	0.51
52:M6:173:ALA:O	52:M6:176:LYS:HB3	2.97	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:N2:90:ARG:C	58:N2:92:TRP:H	2.32	0.51
62:N6:11:ASP:HB3	62:N6:14:LYS:HB2	1.91	0.51
49:M3:153:ASP:HB2	64:N8:126:LYS:HZ3	2.88	0.51
66:O0:42:ILE:HD11	66:O0:67:VAL:HG22	1.93	0.51
70:O4:97:GLU:O	70:O4:100:ILE:N	2.43	0.51
75:O9:27:ILE:HG23	75:O9:30:ARG:NE	2.26	0.51
36:1:837:A:OP1	79:Q3:5:THR:HG23	2.11	0.51
4:S2:152:HIS:N	4:S2:152:HIS:CD2	3.66	0.51
8:S6:105:ASP:OD2	8:S6:105:ASP:N	2.41	0.51
6:S4:26:CYS:SG	11:S9:3:ARG:HG3	4.02	0.51
34:SR:201:THR:HG21	34:SR:242:SER:CA	2.81	0.51
18:C6:94:GLN:NE2	34:SR:60:SER:O	3.59	0.51
36:1:1574:C:N4	36:1:1575:A:C5	2.79	0.50
36:1:1637:A:H8	36:1:1637:A:O5'	1.94	0.50
36:1:2561:A:N7	36:1:2579:G:C2	2.79	0.50
36:1:2979:U:N3	92:1:3710:OHX:N1	2.59	0.50
36:1:1171:G:O6	92:1:3494:OHX:N5	2.44	0.50
36:1:359:U:C2	36:1:920:A:N6	2.79	0.50
1:2:1069:A:C6	1:2:1070:A:N1	2.79	0.50
1:2:1340:A:C2	1:2:1341:G:C4	2.99	0.50
1:2:1541:U:C6	20:C8:122:HIS:ND1	2.79	0.50
1:2:1758:U:O4	1:2:1759:A:N6	2.43	0.50
1:2:1491:U:O4	92:2:1909:OHX:N5	2.43	0.50
1:2:986:A:H4'	1:2:987:U:C5'	2.41	0.50
85:5:1744:G:C6	85:5:1745:C:C4	3.00	0.50
85:5:2317:A:H2'	85:5:2318:U:O4'	2.11	0.50
53:M7:139:TYR:CE2	85:5:2355:G:H4'	146.75	0.50
85:5:3191:G:C5	85:5:3192:U:C4	2.99	0.50
85:5:3383:G:H2'	85:5:3384:U:H6	1.76	0.50
85:5:614:C:C4	85:5:615:U:C5	2.99	0.50
85:5:716:A:C5	85:5:720:A:C5	2.99	0.50
18:C6:12:LYS:NZ	80:6:1380:U:OP1	424.14	0.50
80:6:138:A:N6	80:6:266:A:H61	2.07	0.50
13:C1:69:LYS:HG3	80:6:304:U:O2'	325.45	0.50
38:8:27:U:O5'	38:8:27:U:H6	1.94	0.50
12:C0:23:ALA:O	12:C0:64:TYR:HB2	2.11	0.50
14:C2:142:GLN:OE1	14:C2:142:GLN:HA	2.12	0.50
16:C4:30:VAL:O	16:C4:39:ILE:HG12	2.10	0.50
17:C5:67:ALA:O	92:C5:201:OHX:N5	5.37	0.50
18:C6:47:LYS:NZ	18:C6:50:GLU:OE2	2.44	0.50
26:D4:34:ASN:OD1	26:D4:62:THR:HG21	4.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:C4:115:ILE:HG21	28:D6:44:ILE:HG21	6.46	0.50
33:E1:84:VAL:HG13	33:E1:85:TYR:HD1	6.61	0.50
39:L2:172:GLY:H	79:Q3:68:ALA:N	4.08	0.50
40:L3:375:GLU:O	40:L3:378:ALA:HB3	2.11	0.50
46:L9:117:PHE:O	46:L9:120:ASP:HB2	2.35	0.50
46:L9:166:ARG:HD2	46:L9:168:ARG:HH11	13.83	0.50
47:M0:20:SER:H	47:M0:23:ASN:HB3	2.49	0.50
47:M0:33:ILE:HD11	47:M0:36:LEU:HG	1.93	0.50
51:M5:10:LEU:HD22	51:M5:19:LEU:HD11	5.45	0.50
54:M8:86:THR:HB	54:M8:105:ARG:HG3	4.78	0.50
44:L7:92:ILE:HD11	54:M8:4:ASP:H	1.75	0.50
58:N2:36:TYR:CD2	58:N2:83:TYR:HB2	3.67	0.50
58:N2:59:ASP:O	58:N2:61:THR:N	2.44	0.50
59:N3:32:ARG:HB3	59:N3:64:LYS:O	2.11	0.50
61:N5:130:TYR:CD1	61:N5:130:TYR:N	2.78	0.50
61:N5:61:LYS:NZ	38:8:59:A:H1'	69.12	0.50
61:N5:69:SER:O	61:N5:72:ALA:N	2.91	0.50
68:O2:43:ARG:HH11	68:O2:43:ARG:HG2	1.76	0.50
68:O2:3:SER:OG	68:O2:4:LEU:N	2.44	0.50
43:L6:13:GLU:OE1	68:O2:90:LYS:HB2	2.92	0.50
72:O6:5:THR:HG23	72:O6:12:ASN:CB	2.37	0.50
79:Q3:73:THR:O	79:Q3:76:ALA:N	2.80	0.50
2:S0:120:LEU:HD11	2:S0:144:ILE:HG12	3.84	0.50
3:S1:32:ILE:HB	3:S1:43:VAL:HB	2.75	0.50
4:S2:133:LYS:C	4:S2:135:SER:H	2.14	0.50
4:S2:214:ALA:O	4:S2:217:ALA:HB3	2.10	0.50
6:S4:121:TYR:CD2	6:S4:161:LYS:HE3	2.62	0.50
6:S4:200:ARG:HD3	6:S4:202:ASP:OD2	2.92	0.50
1:2:95:G:H4'	6:S4:8:HIS:CD2	2.46	0.50
36:1:668:G:OP1	92:1:3655:OHX:N2	2.44	0.50
36:1:848:A:H8	36:1:848:A:O5'	1.94	0.50
1:2:1085:G:P	24:D2:76:SER:OG	2.68	0.50
1:2:1366:G:H4'	22:D0:35:GLU:OE2	2.11	0.50
1:2:253:A:H2'	1:2:254:A:C8	2.45	0.50
1:2:350:U:O2	1:2:352:A:N6	2.45	0.50
1:2:43:A:O2'	1:2:99:C:OP1	2.17	0.50
85:5:155:G:H5'	85:5:156:G:C8	2.46	0.50
85:5:2186:U:H2'	85:5:2187:G:O4'	2.12	0.50
85:5:2220:A:C6	85:5:2221:G:C6	2.99	0.50
85:5:3228:C:H1'	85:5:3229:G:OP2	2.10	0.50
92:5:3576:OHX:N5	92:5:3634:OHX:N6	2.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:411:U:H2'	85:5:412:G:H8	1.75	0.50
85:5:748:U:H2'	85:5:749:C:C6	2.46	0.50
85:5:758:C:H42	85:5:773:G:H1	1.60	0.50
80:6:1186:U:H2'	80:6:1187:U:O4'	2.12	0.50
80:6:1554:U:H3'	80:6:1555:A:H8	1.76	0.50
80:6:191:C:O2'	80:6:192:U:O5'	2.29	0.50
92:6:2005:OHX:N6	92:6:2048:OHX:N4	2.58	0.50
80:6:586:G:H2'	80:6:587:C:C6	2.46	0.50
80:6:751:G:H2'	80:6:752:A:C8	2.43	0.50
80:6:820:U:O2'	80:6:821:U:H5''	2.11	0.50
13:C1:111:VAL:HG13	13:C1:111:VAL:O	2.11	0.50
18:C6:45:ARG:O	18:C6:48:VAL:HG12	2.78	0.50
21:C9:86:ARG:NH1	21:C9:90:PRO:O	2.44	0.50
23:D1:12:TYR:CZ	23:D1:14:PRO:HG3	2.46	0.50
25:D3:84:THR:O	25:D3:120:VAL:HG13	2.12	0.50
26:D4:125:LEU:O	26:D4:128:LYS:HB2	4.02	0.50
1:2:545:A:O5'	32:E0:31:LYS:HE3	2.12	0.50
33:E1:119:ARG:O	33:E1:132:LEU:HG	2.11	0.50
39:L2:116:VAL:HG11	39:L2:134:VAL:HG21	1.93	0.50
39:L2:224:THR:HA	39:L2:237:LEU:O	2.72	0.50
40:L3:217:ALA:HB2	40:L3:328:ILE:HD11	2.57	0.50
41:L4:36:HIS:O	41:L4:40:THR:HG23	2.11	0.50
42:L5:110:LEU:HA	42:L5:113:LEU:HB2	3.11	0.50
43:L6:42:LEU:CD2	43:L6:79:VAL:HG21	3.25	0.50
44:L7:140:SER:OG	44:L7:142:SER:N	2.44	0.50
44:L7:239:LEU:O	44:L7:242:SER:OG	2.32	0.50
45:L8:30:THR:O	45:L8:31:PRO:O	2.30	0.50
92:1:3449:OHX:N5	45:L8:54:GLU:OE1	2.44	0.50
57:N1:20:ARG:O	57:N1:21:LYS:HG3	2.11	0.50
59:N3:17:LEU:O	59:N3:52:ALA:N	3.04	0.50
36:1:1559:A:OP1	61:N5:34:LEU:HB2	2.11	0.50
62:N6:23:PRO:HD2	62:N6:26:GLN:HB2	1.93	0.50
62:N6:27:ARG:CZ	62:N6:78:PHE:CE2	2.94	0.50
66:O0:13:LYS:HD3	66:O0:100:ILE:HG22	1.93	0.50
70:O4:8:ARG:HB2	70:O4:34:HIS:NE2	2.26	0.50
71:O5:31:LEU:HD12	71:O5:47:VAL:HG11	1.93	0.50
72:O6:4:LYS:HE2	72:O6:14:GLY:HA3	2.85	0.50
2:S0:185:ARG:HE	23:D1:47:PRO:HG3	3.39	0.50
2:S0:92:HIS:CD2	2:S0:195:TRP:HH2	3.33	0.50
5:S3:70:THR:CG2	5:S3:86:LEU:HB2	2.42	0.50
6:S4:43:PRO:HB3	6:S4:81:THR:O	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S5:36:ALA:HB1	7:S5:45:LYS:HD2	3.39	0.50
9:S7:39:ARG:N	9:S7:40:PRO:HD2	2.26	0.50
11:S9:119:ALA:O	11:S9:124:HIS:HD2	1.94	0.50
35:SM:73:SER:OG	35:SM:74:LYS:N	3.09	0.50
36:1:155:G:H5''	36:1:156:G:C8	2.46	0.50
36:1:2094:C:H2'	36:1:2095:G:H8	1.76	0.50
36:1:2229:A:H2'	36:1:2230:C:C6	2.46	0.50
36:1:2294:U:O2	36:1:2296:A:C8	2.63	0.50
36:1:2969:A:H2'	36:1:2970:C:C6	2.47	0.50
36:1:3021:A:OP1	36:1:3023:U:H1'	2.12	0.50
36:1:3049:A:N3	40:L3:55:THR:HG23	2.25	0.50
36:1:3350:C:C4	36:1:3352:U:N3	2.79	0.50
36:1:786:A:OP2	54:M8:146:SER:OG	2.18	0.50
36:1:873:C:O5'	36:1:873:C:H6	1.95	0.50
36:1:94:G:H2'	36:1:95:A:C8	2.46	0.50
1:2:1598:C:H4'	1:2:1599:G:O5'	2.11	0.50
1:2:721:G:O6	92:2:1973:OHX:N4	2.44	0.50
1:2:29:U:H2'	1:2:30:G:C8	2.46	0.50
1:2:50:C:N4	1:2:425:A:OP2	2.41	0.50
37:3:25:G:C2	37:3:26:C:C2	3.00	0.50
38:4:85:G:C2	38:4:87:G:N2	2.79	0.50
85:5:1427:U:H2'	85:5:1428:A:C8	2.47	0.50
85:5:1631:C:O2	85:5:1811:G:N2	2.36	0.50
39:L2:217:GLN:NE2	85:5:2146:C:OP1	214.24	0.50
85:5:198:A:C5	85:5:219:A:N1	2.79	0.50
85:5:2256:A:H2'	85:5:2256:A:OP2	2.11	0.50
85:5:2762:A:H1'	85:5:2800:G:C6	2.46	0.50
85:5:2837:A:C2	85:5:2850:G:N3	2.80	0.50
85:5:3053:G:H2'	85:5:3054:U:C6	2.46	0.50
85:5:3059:G:C6	85:5:3060:C:N4	2.79	0.50
85:5:436:A:C2	85:5:624:G:C2	2.99	0.50
85:5:525:C:H42	85:5:567:G:H1	1.57	0.50
85:5:902:G:C5	85:5:903:U:C5	2.99	0.50
85:5:902:G:C6	85:5:903:U:C4	2.99	0.50
80:6:1263:G:H2'	80:6:1264:G:O4'	2.11	0.50
80:6:131:C:OP1	92:6:1950:OHX:N5	2.44	0.50
80:6:1537:C:O2'	80:6:1540:G:O6	2.29	0.50
80:6:187:G:H4'	80:6:188:A:OP1	2.12	0.50
80:6:139:C:C4	80:6:266:A:C2	2.98	0.50
80:6:289:U:H2'	80:6:290:G:O4'	2.11	0.50
16:C4:122:PRO:HB3	80:6:887:A:H1'	283.14	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:899:G:H2'	80:6:900:A:H8	1.75	0.50
80:6:939:A:C6	80:6:940:A:C6	2.99	0.50
13:C1:75:VAL:HG22	13:C1:86:ILE:HG22	1.93	0.50
14:C2:81:ASP:O	14:C2:83:GLU:N	2.86	0.50
17:C5:30:THR:O	17:C5:34:VAL:HG13	2.11	0.50
21:C9:123:ARG:HG2	21:C9:124:ILE:N	2.26	0.50
26:D4:116:LYS:C	26:D4:118:ILE:H	2.51	0.50
1:2:919:G:N7	28:D6:15:ARG:NH1	2.59	0.50
40:L3:235:THR:HG22	40:L3:236:LYS:O	2.23	0.50
42:L5:88:ILE:HG12	42:L5:240:TYR:CE1	2.46	0.50
42:L5:52:VAL:HA	42:L5:147:ASP:HB3	2.03	0.50
46:L9:1:MET:SD	56:N0:138:GLN:HG2	2.51	0.50
37:3:43:U:H4'	48:M1:140:ARG:O	2.11	0.50
52:M6:115:LYS:O	52:M6:117:ARG:NH1	2.44	0.50
52:M6:65:ASN:C	52:M6:65:ASN:OD1	2.49	0.50
53:M7:103:GLU:HG3	53:M7:103:GLU:O	2.63	0.50
53:M7:10:ASN:OD1	53:M7:12:ALA:N	2.42	0.50
54:M8:44:PHE:O	54:M8:48:VAL:HG23	2.12	0.50
55:M9:20:ARG:HD2	85:5:1874:A:OP2	141.33	0.50
59:N3:58:VAL:HG23	59:N3:59:MET:O	2.10	0.50
61:N5:57:LEU:HA	61:N5:61:LYS:HG2	3.33	0.50
67:O1:40:ALA:HB3	67:O1:49:VAL:HG21	1.93	0.50
69:O3:22:VAL:HG12	69:O3:22:VAL:O	2.11	0.50
71:O5:24:LEU:HA	71:O5:27:GLU:HB2	2.30	0.50
74:O8:27:ILE:HD13	74:O8:41:THR:HB	2.86	0.50
2:S0:126:PRO:HB2	2:S0:152:PRO:HG2	2.54	0.50
2:S0:62:ARG:HB3	23:D1:36:VAL:HG13	1.93	0.50
4:S2:75:GLY:O	4:S2:77:GLN:NE2	2.44	0.50
6:S4:52:LEU:HB3	6:S4:54:TYR:CD2	2.61	0.50
7:S5:133:VAL:O	7:S5:137:ILE:HG12	2.10	0.50
11:S9:149:ARG:HD2	80:6:765:G:O6	429.55	0.50
34:SR:90:ARG:NE	34:SR:102:ARG:HE	2.94	0.50
34:SR:33:LEU:HB2	34:SR:47:LEU:HD11	1.91	0.50
36:1:1120:A:C2	36:1:1139:G:C2	3.00	0.50
36:1:1421:G:C2	36:1:1422:G:N7	2.80	0.50
36:1:2689:A:C8	36:1:2702:A:C6	3.00	0.50
36:1:3383:G:C6	36:1:3384:U:C4	3.00	0.50
36:1:422:A:N1	36:1:2362:C:O2'	2.41	0.50
36:1:629:U:H2'	36:1:630:A:C8	2.46	0.50
1:2:968:G:C2	1:2:1000:U:O2	2.64	0.50
1:2:1030:G:C6	1:2:1055:C:N3	2.80	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1086:U:O2'	1:2:1087:U:H5'	2.11	0.50
1:2:1146:A:C6	1:2:1147:G:C5	3.00	0.50
1:2:1248:G:C2	1:2:1249:U:H1'	2.47	0.50
1:2:549:G:C2	1:2:550:A:C8	3.00	0.50
1:2:28:A:C6	1:2:599:A:N1	2.79	0.50
1:2:616:G:C2	1:2:622:A:N7	2.79	0.50
1:2:684:U:H3	1:2:720:A:N6	2.03	0.50
1:2:692:C:C4	1:2:693:U:H1'	2.47	0.50
85:5:1317:A:C4	85:5:1319:G:C8	2.99	0.50
85:5:1338:C:C2	85:5:1339:C:C5	2.99	0.50
42:L5:16:PHE:CZ	85:5:2688:U:C4	292.64	0.50
85:5:2951:G:O2'	85:5:2952:G:H5'	2.11	0.50
85:5:3220:G:C6	85:5:3221:C:C5	3.00	0.50
85:5:1839:A:OP2	92:5:3580:OHX:N6	2.44	0.50
52:M6:93:ALA:HB3	85:5:632:G:OP1	218.86	0.50
85:5:63:A:H8	85:5:63:A:O5'	1.95	0.50
80:6:1082:C:H41	80:6:1091:A:N6	2.09	0.50
80:6:1157:A:C2	80:6:1622:G:C2	2.99	0.50
80:6:1314:U:HO2'	80:6:1315:U:P	2.35	0.50
80:6:1334:U:C4	80:6:1335:U:C4	3.00	0.50
11:S9:11:THR:HG23	80:6:472:U:H5''	396.60	0.50
80:6:982:U:O4	80:6:983:A:N6	2.44	0.50
37:7:110:G:C6	37:7:111:U:C4	2.99	0.50
38:8:149:A:H2'	38:8:150:G:H8	1.76	0.50
21:C9:108:LEU:HD22	21:C9:113:ILE:HD12	1.93	0.50
21:C9:52:GLY:HA2	21:C9:55:TYR:CD2	2.46	0.50
21:C9:93:HIS:NE2	21:C9:95:ASP:OD1	3.34	0.50
36:1:2179:C:C2	39:L2:130:SER:O	2.64	0.50
40:L3:375:GLU:CD	60:N4:14:TYR:HH	2.14	0.50
41:L4:99:MET:HE2	41:L4:103:THR:H	3.16	0.50
41:L4:217:LYS:HA	41:L4:220:ARG:HG2	3.03	0.50
41:L4:150:LEU:HD12	41:L4:247:PHE:HE1	3.00	0.50
41:L4:50:TYR:CD2	41:L4:109:TRP:CH2	3.25	0.50
43:L6:39:VAL:O	43:L6:40:LEU:HD23	2.90	0.50
44:L7:117:VAL:HG12	44:L7:118:LYS:N	2.65	0.50
45:L8:108:ARG:HG2	45:L8:112:GLU:OE2	2.11	0.50
45:L8:148:ALA:O	45:L8:149:LYS:HD3	2.11	0.50
48:M1:147:THR:HG22	48:M1:148:VAL:N	4.05	0.50
49:M3:165:SER:OG	49:M3:168:ARG:N	2.38	0.50
49:M3:188:ARG:O	49:M3:191:ALA:HB3	3.08	0.50
50:M4:113:THR:HG22	50:M4:114:ASP:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:M5:140:LYS:HB3	51:M5:144:ARG:HE	1.75	0.50
53:M7:89:LYS:HA	53:M7:92:GLN:HG2	1.92	0.50
54:M8:141:ARG:HD3	85:5:743:C:O2	175.06	0.50
55:M9:4:LEU:HB3	55:M9:7:GLN:CG	4.53	0.50
59:N3:127:PRO:O	59:N3:131:SER:N	2.88	0.50
92:1:3500:OHX:N4	64:N8:23:GLY:O	2.45	0.50
43:L6:171:PRO:HB2	69:O3:43:PHE:HE2	2.34	0.50
71:O5:34:GLN:OE1	71:O5:38:ARG:NH1	2.44	0.50
73:O7:12:HIS:C	73:O7:12:HIS:CD2	2.84	0.50
73:O7:32:LYS:HZ1	38:8:111:A:P	129.20	0.50
75:O9:38:ASN:C	75:O9:40:LYS:H	2.72	0.50
6:S4:136:VAL:HG11	6:S4:148:ARG:NH1	3.02	0.50
8:S6:78:THR:HG22	8:S6:79:LYS:H	3.98	0.50
34:SR:13:LEU:HD21	34:SR:54:PHE:HB3	1.94	0.50
34:SR:76:ASP:OD1	34:SR:76:ASP:N	2.31	0.50
36:1:1464:G:N2	36:1:1466:G:H3'	2.27	0.50
36:1:1580:A:H4'	36:1:1581:C:O5'	2.11	0.50
36:1:1633:C:H2'	36:1:1634:G:H8	1.76	0.50
36:1:2207:A:H2'	36:1:2208:A:H5'	1.92	0.50
36:1:2418:G:H4'	36:1:2419:A:OP1	2.11	0.50
36:1:2747:A:C6	36:1:2748:A:N6	2.80	0.50
97:1:3403:SPS:HN4	91:P:75:C:P	2.33	0.50
36:1:2528:G:N7	92:1:3715:OHX:N3	2.59	0.50
36:1:607:A:H4'	36:1:608:A:OP2	2.11	0.50
36:1:612:U:OP1	43:L6:21:THR:HB	2.11	0.50
36:1:712:G:H2'	36:1:713:U:C6	2.47	0.50
1:2:1717:U:H2'	1:2:1718:U:H6	1.75	0.50
1:2:319:U:H1'	1:2:323:A:C5	2.47	0.50
1:2:495:C:H3'	1:2:496:G:O4'	2.12	0.50
1:2:986:A:C8	1:2:988:A:N6	2.80	0.50
38:4:108:C:N3	38:4:114:G:N1	2.54	0.50
85:5:1094:U:O2'	85:5:1095:U:H3'	2.12	0.50
85:5:1498:A:H2'	85:5:1499:C:C6	2.46	0.50
85:5:1599:G:N2	85:5:1600:U:O2	2.45	0.50
85:5:258:G:H2'	85:5:259:C:C6	2.46	0.50
85:5:3154:C:O2	85:5:3154:C:H2'	2.10	0.50
85:5:3374:U:O5'	85:5:3374:U:H6	1.95	0.50
80:6:1156:C:OP1	92:6:2017:OHX:N1	2.45	0.50
80:6:10:G:C2	80:6:11:A:C4	2.99	0.50
80:6:1263:G:C2	80:6:1264:G:H1'	2.47	0.50
80:6:1483:A:C6	80:6:1484:G:C6	3.00	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:90:C:N4	92:6:1944:OHX:N2	2.59	0.50
80:6:792:U:OP1	92:6:2053:OHX:N4	2.44	0.50
92:6:2034:OHX:N3	92:6:2058:OHX:N2	2.60	0.50
80:6:654:C:H2'	80:6:655:G:C8	2.47	0.50
38:8:81:U:N3	38:8:83:C:C5	2.80	0.50
15:C3:150:VAL:O	92:C3:201:OHX:N3	2.44	0.50
22:D0:37:VAL:HG13	22:D0:107:THR:HG22	5.02	0.50
23:D1:14:PRO:HB2	23:D1:23:ILE:HG23	2.56	0.50
40:L3:288:GLY:N	40:L3:320:ASP:OD1	3.66	0.50
42:L5:233:ALA:O	42:L5:236:LEU:N	2.90	0.50
42:L5:268:GLU:C	42:L5:270:LYS:H	3.02	0.50
42:L5:290:ILE:O	42:L5:294:ALA:HB3	2.12	0.50
44:L7:108:LEU:HD21	44:L7:114:GLY:HA2	1.94	0.50
44:L7:157:ASN:C	44:L7:159:GLN:H	4.04	0.50
44:L7:203:TRP:CD1	44:L7:204:PRO:HD2	3.04	0.50
52:M6:108:ILE:HG13	52:M6:108:ILE:O	4.57	0.50
52:M6:171:LYS:O	52:M6:175:THR:HG22	4.49	0.50
55:M9:130:ASN:ND2	55:M9:130:ASN:O	5.92	0.50
57:N1:130:ARG:NH1	85:5:1098:A:OP2	252.91	0.50
58:N2:36:TYR:CE2	58:N2:83:TYR:HB2	4.21	0.50
58:N2:75:TYR:O	58:N2:78:TYR:HB3	2.11	0.50
66:O0:53:LYS:O	66:O0:57:GLU:HG3	2.40	0.50
70:O4:25:THR:OG1	70:O4:29:ILE:HD13	2.11	0.50
74:O8:28:ASN:HD22	74:O8:42:LYS:HE3	3.47	0.50
78:Q2:74:CYS:CB	78:Q2:77:CYS:SG	3.30	0.50
2:S0:71:GLU:O	2:S0:96:THR:N	3.19	0.50
1:2:94:U:O2'	6:S4:8:HIS:ND1	2.37	0.50
7:S5:57:SER:OG	7:S5:58:LEU:N	2.99	0.50
7:S5:72:HIS:HA	7:S5:107:LYS:HE2	2.08	0.50
8:S6:139:ASN:HA	8:S6:142:ARG:HB2	1.94	0.50
9:S7:160:GLN:NE2	9:S7:160:GLN:H	2.10	0.50
36:1:1178:G:O6	69:O3:20:LYS:HG3	2.12	0.50
36:1:1182:A:H2'	36:1:1183:C:H6	1.77	0.50
36:1:1275:C:H2'	36:1:1276:U:O4'	2.11	0.50
36:1:1376:C:O4'	36:1:1407:A:C2	2.65	0.50
36:1:3015:G:C6	36:1:3040:A:C2	3.00	0.50
36:1:3285:C:H2'	36:1:3286:G:C8	2.46	0.50
92:1:3511:OHX:N5	92:1:3690:OHX:N6	2.59	0.50
36:1:612:U:H2'	36:1:613:G:H8	1.76	0.50
1:2:1050:C:H5''	3:S1:150:VAL:CG1	2.42	0.50
1:2:207:U:O2	10:S8:178:ARG:NH1	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:544:A:H5''	1:2:545:A:OP2	2.12	0.50
1:2:822:U:O2'	1:2:823:U:H5'	2.11	0.50
85:5:207:U:H2'	85:5:208:C:C6	2.45	0.50
85:5:2431:C:C4	85:5:2432:A:N7	2.80	0.50
85:5:2987:A:H2'	85:5:2988:C:C6	2.46	0.50
92:5:3555:OHX:N3	92:5:3740:OHX:N3	2.59	0.50
80:6:1085:G:N2	80:6:1087:A:H3'	2.26	0.50
80:6:1561:U:H4'	80:6:1599:C:H4'	1.93	0.50
80:6:27:U:C2	80:6:28:A:C8	3.00	0.50
80:6:557:G:O3'	80:6:558:U:H4'	2.12	0.50
80:6:865:A:C4	80:6:866:G:C8	2.99	0.50
38:8:4:C:N4	38:8:5:U:O4	2.45	0.50
92:2:1961:OHX:N4	92:C7:201:OHX:N2	2.59	0.50
21:C9:115:GLU:O	21:C9:117:SER:N	2.45	0.50
25:D3:107:PHE:CD2	25:D3:114:LYS:HB2	2.47	0.50
36:1:2186:U:OP2	39:L2:200:ARG:NH2	2.41	0.50
41:L4:122:THR:O	41:L4:125:ALA:HB3	2.11	0.50
41:L4:29:PRO:HG3	41:L4:279:HIS:CD2	2.47	0.50
49:M3:60:ALA:HB3	49:M3:65:TYR:O	2.12	0.50
51:M5:101:THR:O	51:M5:101:THR:HG22	2.11	0.50
51:M5:27:VAL:HB	51:M5:122:ASN:ND2	2.50	0.50
51:M5:136:ASP:OD2	51:M5:138:GLN:NE2	2.45	0.50
51:M5:186:GLY:O	51:M5:189:LYS:N	2.65	0.50
53:M7:59:PRO:HG3	53:M7:76:PHE:CD1	2.46	0.50
55:M9:146:LYS:O	55:M9:149:ALA:N	3.61	0.50
64:N8:126:LYS:HG2	64:N8:146:GLU:HB2	1.93	0.50
70:O4:62:TYR:O	70:O4:65:VAL:HG12	2.98	0.50
73:O7:19:CYS:SG	73:O7:22:CYS:SG	3.27	0.50
74:O8:15:THR:HG22	74:O8:45:VAL:HG11	1.94	0.50
4:S2:227:PRO:HA	4:S2:230:TRP:CD2	2.46	0.50
7:S5:151:GLY:HA3	7:S5:155:ALA:HA	4.88	0.50
8:S6:142:ARG:HH12	8:S6:153:VAL:HG22	6.50	0.50
8:S6:164:LYS:HD3	8:S6:167:LYS:HD3	1.93	0.50
9:S7:143:LEU:N	9:S7:147:ASN:O	2.34	0.50
9:S7:50:ASP:HA	9:S7:56:LYS:HG2	2.53	0.50
10:S8:138:ASN:HA	10:S8:141:ARG:HD3	4.43	0.50
1:2:1257:C:N4	35:SM:94:HIS:O	2.42	0.50
34:SR:239:GLU:O	34:SR:257:ALA:N	2.75	0.50
34:SR:319:ASN:OD1	34:SR:319:ASN:N	2.45	0.50
36:1:1274:A:H2'	36:1:1275:C:H6	1.77	0.50
36:1:1397:C:C4	36:1:1398:U:C5	3.00	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1728:G:C6	66:00:85:PHE:CE2	3.00	0.50
36:1:2197:C:C2	36:1:2241:U:C4	3.00	0.50
36:1:2278:C:O2'	36:1:2279:A:H5''	2.12	0.50
36:1:3324:C:C4	36:1:3325:G:N7	2.79	0.50
36:1:345:G:OP1	36:1:1429:G:C2	2.63	0.50
36:1:3136:G:OP2	92:1:3631:OHX:N6	2.44	0.50
36:1:374:A:N3	36:1:376:G:H5''	2.27	0.50
36:1:668:G:H2'	36:1:669:U:C6	2.47	0.50
36:1:722:G:C6	36:1:723:U:C5	3.00	0.50
36:1:770:G:O6	92:1:3627:OHX:N4	2.45	0.50
1:2:1104:C:N4	1:2:1105:G:O6	2.44	0.50
1:2:1162:G:C6	1:2:1163:C:N3	2.80	0.50
1:2:1564:C:O2'	1:2:1565:U:H5'	2.11	0.50
1:2:1646:G:C6	1:2:1647:C:C4	3.00	0.50
1:2:604:A:OP1	92:2:1988:OHX:N1	2.45	0.50
1:2:970:G:C6	39:L2:249:SER:HB2	2.46	0.50
38:4:42:G:C6	38:4:43:A:N7	2.80	0.50
85:5:1323:G:H2'	85:5:1324:U:H5'	1.93	0.50
85:5:1400:G:C2	85:5:1401:A:C8	2.99	0.50
85:5:1462:A:C5	85:5:1463:U:C4	3.00	0.50
85:5:1495:U:H2'	85:5:1495:U:O2	2.09	0.50
85:5:1867:A:N6	85:5:1868:G:N1	2.60	0.50
85:5:2834:G:OP1	92:5:3446:OHX:N3	2.45	0.50
85:5:3333:G:N2	85:5:3369:G:H1'	2.26	0.50
92:5:3566:OHX:N5	92:5:3640:OHX:N6	2.59	0.50
92:5:3522:OHX:N3	92:5:3721:OHX:N1	2.60	0.50
7:S5:81:ARG:HD2	80:6:1615:C:H2'	373.03	0.50
80:6:1696:G:N2	80:6:1704:U:H3	2.10	0.50
80:6:1754:A:H4'	80:6:1755:A:O5'	2.10	0.50
92:6:2012:OHX:N4	92:6:2030:OHX:N1	2.59	0.50
80:6:340:U:H2'	80:6:341:A:C8	2.47	0.50
80:6:491:C:H42	80:6:497:G:H21	1.60	0.50
80:6:620:A:C5	80:6:621:A:N1	2.80	0.50
12:C0:14:TYR:CZ	12:C0:18:GLU:HG3	2.46	0.50
13:C1:98:ASN:O	13:C1:99:ARG:HG2	2.12	0.50
17:C5:22:LEU:HA	17:C5:25:LEU:HD12	2.59	0.50
19:C7:45:ARG:NH2	80:6:1332:C:OP2	417.10	0.50
21:C9:14:PHE:HE2	21:C9:63:ARG:HB2	1.76	0.50
1:2:787:A:H2	24:D2:105:THR:HB	1.76	0.50
26:D4:59:GLY:O	26:D4:71:GLY:HA2	5.05	0.50
27:D5:59:TYR:HD2	27:D5:60:VAL:N	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:292:ALA:HA	40:L3:303:LYS:H	1.76	0.50
40:L3:219:ALA:HB2	40:L3:336:VAL:HG22	2.94	0.50
41:L4:191:LYS:HG2	85:5:1380:G:H5'	114.82	0.50
37:3:121:U:H5''	42:L5:265:TYR:HE1	1.76	0.50
42:L5:59:ASP:OD1	42:L5:81:HIS:HD2	1.95	0.50
44:L7:229:PHE:CD1	44:L7:229:PHE:C	3.31	0.50
44:L7:67:ARG:O	44:L7:70:LYS:N	2.45	0.50
45:L8:238:LEU:HD23	45:L8:242:ALA:HB1	1.94	0.50
47:M0:91:VAL:HG21	47:M0:135:ILE:HA	1.94	0.50
47:M0:145:LYS:HD3	47:M0:167:LEU:HD13	1.94	0.50
49:M3:70:ARG:NH1	85:5:76:G:OP1	87.97	0.50
50:M4:28:SER:O	50:M4:31:LYS:HB2	2.12	0.50
36:1:2991:A:N3	53:M7:69:ARG:NH2	2.60	0.50
63:N7:14:VAL:HG21	70:O4:90:ILE:HD11	1.93	0.50
63:N7:46:ILE:HD11	63:N7:48:ARG:C	2.32	0.50
65:N9:38:LYS:HB3	65:N9:41:ARG:NH1	4.78	0.50
36:1:1389:G:OP1	68:O2:101:SER:HB3	2.12	0.50
72:O6:58:ILE:O	72:O6:61:ILE:HB	2.39	0.50
2:S0:119:ARG:NH1	4:S2:241:ASP:OD2	2.64	0.50
7:S5:166:ARG:NH1	7:S5:170:GLN:OE1	2.89	0.50
1:2:330:G:OP2	10:S8:172:ARG:NH1	2.44	0.50
11:S9:176:ASN:HA	11:S9:179:ARG:HG2	5.00	0.50
34:SR:44:SER:O	34:SR:58:VAL:HG13	2.11	0.50
36:1:1107:C:C2	36:1:1108:U:C5	3.00	0.50
36:1:1554:U:H4'	36:1:1555:U:H5'	1.92	0.50
36:1:2777:G:H5''	36:1:2778:G:OP1	2.11	0.50
36:1:3328:G:N2	36:1:3329:U:H1'	2.27	0.50
36:1:3346:U:H3	36:1:3359:A:N6	2.05	0.50
36:1:510:G:O6	92:1:3540:OHX:N1	2.45	0.50
36:1:828:A:H2'	36:1:829:U:C6	2.46	0.50
1:2:1026:A:C2	1:2:1059:A:C2	3.00	0.50
1:2:1525:G:H5''	21:C9:88:VAL:N	2.27	0.50
1:2:687:C:N4	1:2:718:C:C2	2.80	0.50
1:2:961:A:OP1	92:2:2046:OHX:N5	2.45	0.50
85:5:1038:C:H2'	85:5:1039:U:C6	2.46	0.50
85:5:1581:C:OP2	85:5:1581:C:H4'	2.10	0.50
85:5:1662:G:N2	85:5:1788:C:O2	2.44	0.50
85:5:1765:U:O2	85:5:1766:G:H1'	2.11	0.50
85:5:2567:C:H42	85:5:2568:C:H41	1.59	0.50
85:5:2663:G:H2'	85:5:2664:C:O4'	2.12	0.50
85:5:2846:U:H3'	85:5:2846:U:C6	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:284:A:H4'	85:5:285:A:N3	2.27	0.50
85:5:2869:U:H5''	85:5:2870:C:OP2	2.12	0.50
40:L3:28:ARG:NH2	85:5:3140:G:N7	231.52	0.50
85:5:1409:G:N7	92:5:3662:OHX:N6	2.60	0.50
85:5:397:A:C6	85:5:400:G:C6	3.00	0.50
85:5:589:A:N6	85:5:610:G:O2'	2.29	0.50
19:C7:2:GLY:N	80:6:1311:U:O3'	391.77	0.50
80:6:1674:C:N4	80:6:1675:C:N4	2.60	0.50
80:6:206:A:H1'	80:6:262:U:O2	2.11	0.50
80:6:333:A:C2	80:6:334:G:C2	2.99	0.50
80:6:595:G:H2'	80:6:596:C:C6	2.46	0.50
38:8:100:U:OP2	92:8:203:OHX:N2	2.45	0.50
38:8:76:C:H2'	38:8:77:A:O4'	2.11	0.50
13:C1:71:LEU:HD13	13:C1:88:ARG:NH1	2.27	0.50
14:C2:62:LEU:HD22	14:C2:75:VAL:HG11	2.25	0.50
15:C3:34:ILE:HG13	15:C3:67:THR:HG21	1.92	0.50
22:D0:41:ILE:HG13	22:D0:103:ILE:HD11	1.93	0.50
22:D0:97:VAL:HG13	22:D0:98:GLN:H	2.50	0.50
24:D2:23:ARG:HA	24:D2:65:LEU:HD22	1.93	0.50
27:D5:71:ILE:HD11	27:D5:75:LEU:HB2	7.09	0.50
28:D6:84:VAL:HG22	80:6:1797:A:N6	337.20	0.50
40:L3:102:LEU:O	85:5:3147:G:H4'	239.87	0.50
36:1:3005:A:H5'	40:L3:98:GLY:HA3	1.93	0.50
42:L5:87:GLY:O	42:L5:88:ILE:HG13	2.11	0.50
46:L9:87:LYS:HZ3	46:L9:191:LEU:HD11	15.53	0.50
47:M0:66:GLU:OE1	47:M0:69:ARG:CZ	2.60	0.50
48:M1:40:LEU:HD13	48:M1:40:LEU:O	2.12	0.50
52:M6:80:PHE:C	52:M6:80:PHE:CD2	3.72	0.50
55:M9:24:LEU:O	55:M9:25:ASP:C	2.95	0.50
56:N0:43:TYR:CZ	56:N0:47:LYS:HE2	3.64	0.50
57:N1:83:ARG:N	57:N1:83:ARG:HD3	2.27	0.50
58:N2:38:ILE:HD11	58:N2:56:VAL:HB	2.58	0.50
59:N3:81:GLN:O	59:N3:82:ALA:HB3	2.11	0.50
61:N5:63:ILE:HD11	61:N5:84:PHE:CD1	2.81	0.50
64:N8:74:ASN:HB2	64:N8:76:ASP:HB2	1.93	0.50
67:O1:13:THR:HG22	67:O1:72:ARG:CD	2.44	0.50
68:O2:77:ALA:HB3	68:O2:81:ASP:CG	4.33	0.50
71:O5:49:LYS:O	71:O5:52:ALA:HB3	2.10	0.50
76:Q0:97:ARG:HG3	76:Q0:120:GLN:C	2.32	0.50
5:S3:223:LYS:HD3	34:SR:193:ILE:HD13	4.50	0.50
6:S4:194:THR:O	6:S4:195:ILE:HB	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:S6:14:LYS:HD2	8:S6:123:GLY:HA3	3.15	0.50
8:S6:187:LYS:O	8:S6:191:ARG:HB2	3.56	0.50
10:S8:188:GLU:O	10:S8:191:PHE:N	3.16	0.50
11:S9:96:VAL:O	11:S9:99:LEU:HB2	3.16	0.50
34:SR:109:ASP:HB2	34:SR:127:ARG:HB2	1.94	0.50
34:SR:70:ASP:OD1	34:SR:71:CYS:N	2.45	0.50
36:1:1352:A:N3	36:1:1352:A:H2'	2.27	0.50
36:1:1833:G:OP1	75:O9:10:LYS:NZ	2.26	0.50
36:1:199:A:C4	36:1:201:A:C8	2.99	0.50
36:1:2548:C:H5''	36:1:2549:G:OP1	2.11	0.50
36:1:2802:A:C8	78:Q2:56:PRO:HG3	2.47	0.50
36:1:2832:C:H42	36:1:2856:G:H1	1.60	0.50
36:1:2874:G:N2	92:1:3710:OHX:N3	2.60	0.50
36:1:3364:C:H2'	36:1:3365:U:H6	1.77	0.50
36:1:3316:A:C5	36:1:3389:U:C4	2.99	0.50
92:1:3585:OHX:N2	92:1:3694:OHX:N1	2.59	0.50
36:1:76:G:O2'	49:M3:100:ARG:HG3	2.11	0.50
36:1:996:A:C2	36:1:1054:A:C4	3.00	0.50
1:2:1516:C:H5	27:D5:77:ARG:HH21	1.59	0.50
1:2:1377:G:O6	92:2:1974:OHX:N6	2.45	0.50
1:2:685:G:N7	92:2:2009:OHX:N2	2.59	0.50
38:4:6:U:H2'	38:4:7:U:C6	2.46	0.50
38:4:91:C:H2'	38:4:92:A:H8	1.76	0.50
85:5:1199:C:H4'	85:5:1200:A:O5'	2.12	0.50
85:5:136:G:C2	85:5:137:G:C5	2.99	0.50
85:5:1554:U:H4'	85:5:1555:U:OP1	2.11	0.50
85:5:1666:G:C6	85:5:1667:A:C6	3.00	0.50
85:5:203:G:H2'	85:5:204:A:H8	1.76	0.50
85:5:2861:U:OP2	85:5:2861:U:H6	1.95	0.50
92:5:3522:OHX:N5	92:5:3721:OHX:N1	2.60	0.50
85:5:391:A:C5	85:5:392:G:C8	2.99	0.50
85:5:392:G:C4	85:5:393:U:C5	3.00	0.50
85:5:441:U:O2	85:5:492:U:N3	2.45	0.50
49:M3:14:PHE:CZ	85:5:665:A:H1'	131.67	0.50
80:6:158:U:H2'	80:6:158:U:OP2	2.11	0.50
80:6:419:G:C6	80:6:420:A:C5	3.00	0.50
80:6:809:A:C6	80:6:810:G:C6	3.00	0.50
37:7:31:U:O2'	37:7:32:U:H5'	2.12	0.50
37:7:52:G:N1	37:7:53:U:C4	2.80	0.50
37:7:52:G:C2	37:7:53:U:C6	3.00	0.50
38:8:43:A:N3	38:8:44:A:C8	2.80	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:C1:14:GLN:HB3	13:C1:54:ILE:HG13	4.36	0.50
13:C1:6:THR:O	13:C1:8:GLN:N	2.47	0.50
14:C2:129:GLU:O	14:C2:133:LEU:HD13	2.12	0.50
15:C3:65:VAL:CG1	15:C3:66:ILE:HG23	5.79	0.50
17:C5:96:ILE:HD13	17:C5:116:LEU:O	2.12	0.50
28:D6:70:LYS:HG2	28:D6:72:HIS:CE1	5.20	0.50
33:E1:144:CYS:HB3	33:E1:147:VAL:H	1.77	0.50
39:L2:192:LYS:HB3	39:L2:193:ARG:NH2	2.26	0.50
40:L3:187:SER:O	40:L3:191:LYS:HG3	3.25	0.50
41:L4:232:SER:O	41:L4:233:LEU:HB2	2.12	0.50
41:L4:238:LEU:O	41:L4:246:ARG:HB2	2.12	0.50
41:L4:329:PRO:C	41:L4:331:ALA:N	3.09	0.50
43:L6:134:ARG:O	43:L6:137:ASP:N	2.45	0.50
44:L7:165:ASP:OD2	44:L7:166:ASN:N	3.18	0.50
46:L9:57:VAL:HG23	46:L9:68:LEU:HG	1.96	0.50
49:M3:101:ARG:HH22	49:M3:112:ASN:HD21	2.35	0.50
56:N0:107:TYR:CE1	56:N0:121:ILE:HG21	3.42	0.50
50:M4:38:ILE:HD11	56:N0:150:PHE:HE2	1.77	0.50
57:N1:43:LYS:HD2	85:5:992:A:H5''	256.43	0.50
62:N6:11:ASP:HB3	62:N6:14:LYS:HG3	2.43	0.50
36:1:3279:A:N6	69:O3:54:ARG:HD2	2.27	0.50
70:O4:52:GLN:HG3	85:5:1738:C:H1'	194.38	0.50
71:O5:17:LEU:O	71:O5:20:GLN:N	2.63	0.50
71:O5:21:LEU:HG	71:O5:54:VAL:HG11	2.90	0.50
71:O5:62:GLN:O	71:O5:65:ALA:HB3	2.12	0.50
73:O7:39:TYR:CG	73:O7:40:PRO:HA	2.66	0.50
73:O7:70:VAL:HG11	38:8:35:C:H5'	71.16	0.50
3:S1:103:MET:N	3:S1:215:VAL:HG13	3.23	0.50
3:S1:61:LEU:HD22	3:S1:61:LEU:H	1.77	0.50
5:S3:38:GLU:HG3	5:S3:49:ILE:HD13	1.92	0.50
5:S3:64:ARG:HG2	5:S3:65:ARG:H	2.56	0.50
7:S5:62:VAL:HG13	7:S5:89:ILE:HG21	1.93	0.50
11:S9:143:ILE:HG22	11:S9:145:SER:H	1.76	0.50
1:2:591:A:H5''	11:S9:24:LEU:HD22	1.94	0.50
34:SR:164:ASP:O	34:SR:166:SER:N	2.47	0.50
36:1:1184:A:N3	36:1:1323:G:C2	2.79	0.49
36:1:1329:U:O2'	36:1:1330:A:P	2.69	0.49
36:1:137:G:H2'	36:1:138:U:C6	2.47	0.49
36:1:2164:A:N6	36:1:2165:G:C6	2.80	0.49
36:1:2190:U:C5	36:1:2191:U:C5	2.98	0.49
36:1:231:G:C2	36:1:232:G:C8	3.00	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:312:C:H1'	36:1:2778:G:N2	2.27	0.49
36:1:3215:A:C4	36:1:3259:U:C2	3.00	0.49
36:1:2942:C:O2'	92:1:3528:OHX:N1	2.44	0.49
36:1:437:G:H22	36:1:622:A:H61	1.60	0.49
36:1:554:A:H5''	36:1:555:U:OP2	2.12	0.49
36:1:767:U:H1'	36:1:768:C:C6	2.47	0.49
1:2:1227:A:O2'	1:2:1228:G:OP1	2.30	0.49
1:2:669:C:H2'	1:2:670:G:C8	2.47	0.49
1:2:832:C:C2	1:2:833:A:C8	3.00	0.49
37:3:27:A:H1'	37:3:57:G:N2	2.27	0.49
85:5:1711:C:N4	85:5:1712:G:C6	2.80	0.49
85:5:2315:G:C2	85:5:2316:G:N7	2.80	0.49
85:5:2632:G:C6	85:5:2647:A:C6	2.99	0.49
42:L5:48:LYS:NZ	85:5:2749:G:OP1	241.39	0.49
85:5:303:G:N2	85:5:2778:G:C5	2.81	0.49
85:5:2890:A:N1	85:5:2913:C:N3	2.60	0.49
40:L3:19:ARG:N	85:5:2990:G:OP1	221.43	0.49
85:5:3013:U:C2	85:5:3014:U:C5	3.00	0.49
85:5:3327:G:H1	85:5:3379:C:H42	1.59	0.49
85:5:368:G:O6	85:5:369:A:N6	2.46	0.49
80:6:1041:G:H1	80:6:1077:C:H42	1.59	0.49
80:6:477:A:C2	80:6:512:A:C2	3.00	0.49
37:7:30:G:O2'	37:7:31:U:H5'	2.11	0.49
12:C0:77:ARG:HD3	12:C0:84:UNK:HA	1.94	0.49
13:C1:80:MET:HB2	13:C1:83:THR:HG23	1.94	0.49
15:C3:26:PHE:CE2	15:C3:28:LEU:HB2	2.83	0.49
15:C3:33:VAL:O	15:C3:36:GLN:HB2	2.12	0.49
19:C7:52:GLY:HA3	80:6:1389:C:O2'	421.93	0.49
21:C9:64:HIS:CE1	21:C9:68:ARG:HH22	2.29	0.49
24:D2:28:ARG:HH22	80:6:864:U:H3'	353.25	0.49
26:D4:121:THR:C	26:D4:123:LYS:H	3.31	0.49
41:L4:157:GLU:OE2	41:L4:251:THR:OG1	2.23	0.49
44:L7:110:ARG:CZ	54:M8:3:ILE:HD12	3.91	0.49
44:L7:131:GLU:HB2	44:L7:132:PRO:HD3	2.36	0.49
36:1:1158:A:C6	44:L7:93:ASN:ND2	2.80	0.49
46:L9:62:ARG:HH21	85:5:3115:C:P	329.49	0.49
47:M0:216:TYR:CG	47:M0:217:PHE:N	2.78	0.49
48:M1:97:SER:OG	48:M1:99:THR:OG1	2.99	0.49
52:M6:14:HIS:NE2	52:M6:119:VAL:HG22	2.27	0.49
54:M8:25:TYR:HA	54:M8:28:LEU:HD12	2.84	0.49
54:M8:81:VAL:CG2	54:M8:101:VAL:HG13	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:N0:98:SER:O	56:N0:101:ALA:N	3.16	0.49
56:N0:12:ARG:NH2	56:N0:57:GLU:OE1	2.92	0.49
57:N1:9:SER:O	57:N1:11:THR:HG23	3.93	0.49
59:N3:127:PRO:O	59:N3:130:ALA:N	2.46	0.49
61:N5:56:ARG:NH2	38:8:135:G:OP2	81.92	0.49
36:1:937:G:OP2	64:N8:26:ARG:HB3	2.12	0.49
64:N8:62:HIS:CG	64:N8:62:HIS:O	2.62	0.49
67:O1:25:PHE:O	67:O1:27:LYS:N	3.01	0.49
68:O2:87:MET:O	68:O2:88:HIS:ND1	2.45	0.49
69:O3:24:ASN:C	69:O3:24:ASN:OD1	2.50	0.49
69:O3:86:ARG:NH2	85:5:497:C:O2'	213.80	0.49
73:O7:17:THR:HG22	73:O7:18:LEU:H	1.77	0.49
5:S3:141:LYS:HA	35:SM:110:TRP:HZ2	1.77	0.49
9:S7:31:SER:HA	9:S7:35:LYS:HB3	3.37	0.49
10:S8:176:SER:HB2	10:S8:178:ARG:H	3.56	0.49
35:SM:104:LYS:O	35:SM:108:GLN:HG2	2.11	0.49
17:C5:130:ARG:HH22	35:SM:70:ASN:HB2	2.38	0.49
35:SM:97:THR:HG22	35:SM:99:LYS:HB2	1.94	0.49
34:SR:245:PHE:O	34:SR:294:TRP:CD1	2.65	0.49
34:SR:38:ARG:HG2	34:SR:67:ILE:CG2	2.46	0.49
36:1:1105:A:H2'	36:1:1106:G:C8	2.47	0.49
36:1:1213:G:N3	36:1:1213:G:H2'	2.28	0.49
36:1:2314:U:O2'	36:1:2315:G:P	2.70	0.49
36:1:2655:U:O2	36:1:2656:A:N1	2.44	0.49
36:1:2732:G:C6	36:1:2733:A:C5	3.00	0.49
36:1:2958:A:O2'	36:1:2959:C:H5'	2.11	0.49
36:1:2971:A:N7	91:P:74:C:C5'	2.74	0.49
92:1:3612:OHX:N6	92:1:3684:OHX:N5	2.60	0.49
36:1:593:C:N4	36:1:594:U:O4	2.45	0.49
36:1:664:U:H2'	36:1:665:A:C8	2.47	0.49
1:2:1130:A:H2'	1:2:1131:C:C6	2.48	0.49
1:2:1407:A:H4'	4:S2:93:GLY:HA2	1.94	0.49
1:2:162:A:H2'	1:2:163:G:N3	2.27	0.49
1:2:293:U:H2'	1:2:294:C:H6	1.77	0.49
1:2:312:A:C2	1:2:314:C:H2'	2.46	0.49
1:2:51:A:C6	1:2:52:U:C2	3.00	0.49
37:3:35:C:C5	37:3:36:C:C4	3.00	0.49
38:4:7:U:O4	92:4:203:OHX:N3	2.45	0.49
85:5:1239:C:H2'	85:5:1240:A:O4'	2.11	0.49
85:5:1465:A:H5''	85:5:1466:G:OP2	2.13	0.49
85:5:1524:A:C6	85:5:1607:U:C5	3.00	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:2101:C:HO2'	85:5:2102:U:P	2.34	0.49
85:5:2631:U:H2'	85:5:2632:G:H8	1.76	0.49
85:5:2653:C:HO2'	85:5:2657:A:N6	2.10	0.49
57:N1:22:HIS:ND1	85:5:2701:U:OP 2	270.25	0.49
85:5:2885:C:N4	85:5:2886:U:O4	2.46	0.49
85:5:3199:G:C2	85:5:3200:G:C8	3.00	0.49
92:5:3591:OHX:N3	92:5:3705:OHX:N2	2.59	0.49
80:6:1141:G:C2	80:6:1142:A:C4	2.99	0.49
21:C9:68:ARG:NH1	80:6:1523:G:N7	411.75	0.49
80:6:1565:C:H2'	80:6:1566:U:C6	2.47	0.49
80:6:162:A:C6	80:6:163:G:C6	3.01	0.49
80:6:479:C:H2'	80:6:480:G:H8	1.77	0.49
80:6:75:U:O2'	80:6:76:A:O4'	2.30	0.49
61:N5:42:ARG:HH12	38:8:137:C:P	97.38	0.49
38:8:83:C:C4'	38:8:85:G:H21	2.24	0.49
20:C8:102:ALA:O	20:C8:105:VAL:HG22	5.94	0.49
21:C9:28:LEU:O	21:C9:29:GLU:HB2	2.12	0.49
21:C9:7:ARG:HD2	80:6:1366:U:O2'	424.31	0.49
26:D4:8:ARG:HD2	80:6:780:A:C2	437.59	0.49
14:C2:78:LEU:HD23	33:E1:114:VAL:HG11	2.94	0.49
40:L3:212:ASN:O	40:L3:281:LYS:NZ	2.32	0.49
42:L5:166:ALA:HB1	42:L5:171:LEU:HD12	1.93	0.49
47:M0:210:ILE:HA	47:M0:217:PHE:CE2	2.72	0.49
36:1:1011:A:P	47:M0:40:LYS:HZ3	2.29	0.49
49:M3:85:LEU:HD22	49:M3:120:GLN:HE22	2.49	0.49
51:M5:133:ILE:HD12	51:M5:134:LEU:N	2.27	0.49
51:M5:193:ARG:O	51:M5:195:ASN:N	2.92	0.49
52:M6:73:PHE:CG	52:M6:78:ARG:HG2	2.46	0.49
53:M7:67:ILE:N	53:M7:67:ILE:HD13	3.00	0.49
54:M8:122:ILE:HG23	54:M8:126:GLN:HB2	1.94	0.49
55:M9:22:VAL:O	55:M9:53:LYS:HE3	4.84	0.49
56:N0:57:GLU:HB3	57:N1:136:ARG:HH22	3.34	0.49
61:N5:105:VAL:HG13	61:N5:130:TYR:CD2	2.47	0.49
62:N6:32:SER:O	62:N6:101:PRO:HB2	2.22	0.49
74:O8:28:ASN:ND2	74:O8:42:LYS:HE3	3.64	0.49
74:O8:64:LYS:HG3	74:O8:65:LEU:N	4.64	0.49
6:S4:251:GLU:HB3	6:S4:255:ARG:HH22	1.77	0.49
7:S5:174:LEU:HD22	7:S5:213:LYS:HG3	2.92	0.49
8:S6:74:LYS:C	8:S6:75:LEU:HD23	3.04	0.49
9:S7:141:ARG:HG2	24:D2:51:GLU:CD	2.31	0.49
36:1:1199:C:N3	36:1:1200:A:C6	2.80	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1353:U:O2	43:L6:10:TYR:HB2	2.11	0.49
36:1:135:C:N3	71:O5:94:LYS:HG3	2.28	0.49
36:1:1783:U:H2'	36:1:1784:G:H8	1.76	0.49
36:1:1784:G:H2'	36:1:1785:U:C6	2.48	0.49
36:1:2383:C:H5'	52:M6:71:PHE:HE2	1.77	0.49
36:1:2812:C:H2'	36:1:2813:A:H8	1.77	0.49
36:1:2744:U:OP1	92:1:3609:OHX:N1	2.45	0.49
36:1:379:C:H2'	36:1:380:U:H6	1.76	0.49
36:1:42:C:H6	36:1:42:C:O5'	1.95	0.49
1:2:1231:C:H2'	1:2:1232:U:C6	2.47	0.49
1:2:1354:A:OP1	1:2:1354:A:H2'	2.11	0.49
1:2:1636:C:C2	1:2:1731:G:C2	3.00	0.49
1:2:48:G:C2	1:2:49:C:C6	3.00	0.49
1:2:590:C:H5''	32:E0:43:ARG:NH1	2.26	0.49
85:5:118:U:C5	85:5:119:U:C5	3.00	0.49
85:5:127:G:H2'	85:5:128:G:H8	1.78	0.49
85:5:1338:C:H2'	85:5:1339:C:C6	2.45	0.49
85:5:1409:G:H2'	85:5:1410:U:O4'	2.12	0.49
85:5:1561:G:H1	85:5:1578:C:N4	2.10	0.49
55:M9:20:ARG:NH2	85:5:1874:A:N6	148.99	0.49
85:5:1939:G:N1	85:5:2110:G:C6	2.80	0.49
85:5:2404:A:C4	95:5:3401:PHE:HZ	2.31	0.49
85:5:2555:G:C6	85:5:2556:C:C2	3.00	0.49
85:5:2999:U:O2'	85:5:3296:A:H5'	2.12	0.49
85:5:3163:A:N1	85:5:3288:G:C6	2.81	0.49
85:5:3364:C:H2'	85:5:3365:U:H6	1.76	0.49
85:5:3385:U:H2'	85:5:3386:G:C8	2.47	0.49
85:5:767:U:H1'	85:5:768:C:C6	2.46	0.49
80:6:1155:G:H2'	80:6:1155:G:N3	2.27	0.49
80:6:1650:U:H5''	80:6:1651:A:OP2	2.12	0.49
80:6:1731:A:H5''	80:6:1732:A:OP2	2.12	0.49
10:S8:137:LYS:HE3	80:6:191:C:N4	266.29	0.49
80:6:341:A:H2'	80:6:342:C:H6	1.77	0.49
6:S4:3:ARG:NH1	80:6:399:A:N3	321.77	0.49
80:6:473:A:O2'	80:6:768:C:N3	2.43	0.49
37:7:36:C:H2'	37:7:37:G:H8	1.77	0.49
13:C1:38:ALA:O	80:6:247:A:H1'	322.57	0.49
15:C3:87:ASP:HB3	15:C3:125:LEU:HD11	4.47	0.49
16:C4:13:VAL:CG1	16:C4:77:THR:H	2.19	0.49
18:C6:93:HIS:HA	18:C6:97:VAL:CG1	2.41	0.49
26:D4:9:THR:HB	26:D4:23:PHE:CD1	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:D2:60:LYS:NZ	29:D7:24:LEU:O	3.16	0.49
40:L3:139:GLN:OE1	40:L3:142:ALA:HB3	2.91	0.49
40:L3:339:ARG:HG2	40:L3:340:LYS:O	2.12	0.49
41:L4:355:PHE:CZ	44:L7:70:LYS:HD3	2.56	0.49
41:L4:74:ILE:HD13	41:L4:88:GLY:HA2	1.94	0.49
42:L5:95:TRP:CZ2	42:L5:181:PRO:HD3	3.95	0.49
36:1:1101:G:OP2	44:L7:196:LYS:HE2	2.12	0.49
48:M1:129:VAL:HG22	48:M1:129:VAL:O	4.87	0.49
49:M3:53:LEU:HB3	49:M3:96:ALA:HB2	2.76	0.49
49:M3:53:LEU:HD23	49:M3:94:GLY:C	2.32	0.49
54:M8:44:PHE:CD1	54:M8:139:ILE:HD11	2.47	0.49
54:M8:70:ALA:HB1	54:M8:73:GLN:HE21	3.53	0.49
36:1:216:G:H4'	62:N6:19:TYR:CZ	2.48	0.49
65:N9:45:HIS:ND1	85:5:1075:A:C5	197.03	0.49
68:O2:12:LYS:HD2	68:O2:57:TYR:O	2.13	0.49
74:O8:64:LYS:HA	74:O8:64:LYS:HE3	1.93	0.49
75:O9:21:ARG:NH1	75:O9:22:PRO:O	2.37	0.49
6:S4:127:LYS:HA	6:S4:127:LYS:HE2	4.71	0.49
6:S4:18:TRP:CZ3	6:S4:29:PRO:HD2	4.28	0.49
6:S4:50:ASN:HB3	6:S4:51:ARG:NH2	3.05	0.49
7:S5:68:ILE:HD13	7:S5:69:PHE:N	5.23	0.49
7:S5:90:ILE:O	7:S5:94:THR:HG23	2.11	0.49
8:S6:58:LYS:HA	8:S6:107:ALA:HB2	3.14	0.49
8:S6:70:PRO:HA	8:S6:98:ARG:HH12	1.78	0.49
11:S9:30:LEU:HD22	11:S9:105:LEU:HD22	1.94	0.49
36:1:1260:A:H1'	36:1:1280:C:H1'	1.94	0.49
36:1:132:C:C2	36:1:137:G:C2	3.00	0.49
36:1:3374:U:H6	36:1:3374:U:O5'	1.96	0.49
36:1:986:U:H2'	36:1:987:U:H6	1.77	0.49
1:2:1034:G:O2'	1:2:1035:U:P	2.70	0.49
1:2:333:A:H2'	1:2:334:G:C8	2.46	0.49
38:4:62:C:O2	92:4:210:OHX:N5	2.46	0.49
38:4:46:G:C6	38:4:47:C:C4	3.00	0.49
55:M9:120:TYR:OH	85:5:1720:U:OP2	233.22	0.49
85:5:1731:A:C5	85:5:1732:U:C4	3.01	0.49
85:5:1731:A:C6	85:5:1732:U:N3	2.80	0.49
45:L8:241:LYS:HE2	85:5:2586:G:O2'	185.49	0.49
51:M5:50:ARG:NH1	85:5:268:A:P	114.60	0.49
85:5:2888:U:C6	85:5:2911:A:N6	2.80	0.49
85:5:2997:G:C1'	85:5:3396:U:H5'	2.42	0.49
85:5:678:G:C5	85:5:679:U:C4	3.00	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:678:G:C5	85:5:679:U:C5	3.00	0.49
80:6:1535:U:O2'	80:6:1536:G:O5'	2.27	0.49
80:6:426:G:N2	80:6:427:C:C2	2.80	0.49
80:6:6:G:C2	80:6:7:G:C8	3.00	0.49
80:6:839:U:H2'	80:6:840:U:C6	2.47	0.49
37:7:55:A:OP2	37:7:56:A:OP2	2.31	0.49
38:8:19:C:C4	38:8:20:U:C4	3.00	0.49
14:C2:45:LEU:O	14:C2:49:THR:HG23	2.81	0.49
21:C9:125:SER:O	21:C9:129:GLN:HG3	2.12	0.49
21:C9:66:TYR:HE2	21:C9:129:GLN:HG3	5.05	0.49
39:L2:132:ASN:N	39:L2:132:ASN:OD1	2.45	0.49
51:M5:154:PRO:O	51:M5:157:LYS:HG3	2.54	0.49
51:M5:183:THR:O	51:M5:183:THR:HG23	2.40	0.49
51:M5:37:HIS:NE2	51:M5:63:ARG:HB3	2.27	0.49
56:N0:12:ARG:HD2	56:N0:13:ARG:O	2.12	0.49
57:N1:157:GLU:HG2	57:N1:159:PHE:CE2	7.17	0.49
59:N3:79:VAL:HG23	59:N3:80:ARG:HG3	2.73	0.49
72:O6:75:LYS:O	72:O6:75:LYS:HG3	2.88	0.49
73:O7:52:LYS:HG3	73:O7:55:ARG:HD2	1.93	0.49
97:1:3403:SPS:H81	98:P:101:8AN:H5'A	1.85	0.49
3:S1:183:GLN:HG2	3:S1:187:LYS:HE3	1.93	0.49
7:S5:57:SER:OG	7:S5:167:ARG:NH2	2.45	0.49
8:S6:31:ARG:HB2	8:S6:34:GLN:HG3	1.94	0.49
36:1:189:G:C2	36:1:191:U:C4	3.00	0.49
36:1:2361:A:C6	36:1:2362:C:C4	3.00	0.49
36:1:2403:G:N3	36:1:2405:C:C4	2.81	0.49
36:1:2641:U:OP1	92:1:3662:OHX:N4	2.45	0.49
36:1:2674:A:C5	48:M1:124:GLY:HA3	2.48	0.49
36:1:2948:C:H2'	36:1:2949:U:O4'	2.12	0.49
36:1:900:G:H1'	36:1:1589:A:H62	1.75	0.49
36:1:945:C:H2'	36:1:946:U:H6	1.77	0.49
1:2:1503:U:H5''	21:C9:75:LYS:NZ	2.27	0.49
1:2:1631:A:H2'	1:2:1632:G:H8	1.77	0.49
1:2:1779:C:P	28:D6:5:ARG:HH12	2.36	0.49
37:3:17:A:N6	37:3:18:C:N4	2.61	0.49
37:3:50:U:C2'	37:3:51:A:H5'	2.41	0.49
37:3:8:G:C6	37:3:9:C:C4	3.00	0.49
85:5:1138:U:H2'	85:5:1139:G:O4'	2.12	0.49
85:5:2426:U:H2'	85:5:2427:U:C6	2.47	0.49
85:5:2774:C:O2	85:5:2787:G:N3	2.46	0.49
85:5:3041:U:C4	85:5:3042:U:O4	2.66	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:3127:A:OP2	92:5:3658:OHX:N5	2.45	0.49
85:5:581:U:O4	92:5:3524:OHX:N6	2.45	0.49
85:5:716:A:C5	85:5:720:A:C6	3.00	0.49
85:5:996:A:H2'	85:5:997:A:O4'	2.12	0.49
80:6:1138:A:C4	80:6:1139:A:C8	3.01	0.49
80:6:1145:U:H3	80:6:1633:A:H61	1.60	0.49
80:6:1683:C:O2	80:6:1718:G:N2	2.33	0.49
92:6:1978:OHX:N5	92:6:2001:OHX:N3	2.61	0.49
80:6:364:G:C2	80:6:381:C:N3	2.80	0.49
80:6:407:A:H2'	80:6:408:C:C6	2.47	0.49
80:6:839:U:H2'	80:6:840:U:H6	1.77	0.49
12:C0:29:GLN:NE2	12:C0:31:LYS:O	4.99	0.49
13:C1:71:LEU:HG	13:C1:137:PHE:HE1	1.76	0.49
21:C9:85:SER:C	21:C9:87:GLY:H	2.16	0.49
31:D9:21:CYS:C	31:D9:23:VAL:H	2.67	0.49
31:D9:31:ILE:HG22	31:D9:36:LEU:HD11	1.93	0.49
36:1:3315:G:C5	40:L3:123:TYR:CE2	3.00	0.49
41:L4:107:ARG:HD2	41:L4:109:TRP:CZ3	2.48	0.49
44:L7:125:GLU:OE1	44:L7:128:LYS:HD2	3.53	0.49
44:L7:98:LYS:HB3	44:L7:99:PRO:HD3	2.24	0.49
45:L8:78:PHE:C	45:L8:80:TYR:N	2.64	0.49
47:M0:43:VAL:HG21	47:M0:197:VAL:HG22	2.03	0.49
47:M0:87:LEU:HA	47:M0:138:VAL:HG22	4.43	0.49
51:M5:23:GLN:NE2	51:M5:122:ASN:OD1	2.30	0.49
55:M9:127:SER:HA	55:M9:132:PHE:CD2	2.48	0.49
56:N0:133:ALA:HA	56:N0:141:LYS:HZ1	1.78	0.49
47:M0:169:LYS:HE3	57:N1:160:ILE:H	6.15	0.49
57:N1:56:PHE:C	57:N1:58:GLN:H	2.16	0.49
57:N1:78:LYS:O	57:N1:85:LEU:N	2.77	0.49
38:4:147:U:O2'	61:N5:38:LEU:HB2	2.12	0.49
61:N5:38:LEU:O	61:N5:39:LYS:HB2	4.68	0.49
61:N5:68:THR:OG1	71:O5:36:LEU:HD13	2.12	0.49
62:N6:82:VAL:O	62:N6:84:LYS:N	3.02	0.49
65:N9:8:THR:HG23	65:N9:10:HIS:H	1.77	0.49
68:O2:21:HIS:CE1	68:O2:24:ARG:HD2	2.69	0.49
68:O2:44:ARG:O	68:O2:45:ARG:HB2	2.11	0.49
69:O3:47:LYS:HE3	69:O3:105:SER:HA	2.46	0.49
62:N6:108:LYS:NZ	71:O5:14:LYS:HD2	57.45	0.49
74:O8:3:ARG:O	74:O8:52:TYR:HA	3.10	0.49
79:Q3:14:TYR:HB3	79:Q3:18:TYR:CE1	2.47	0.49
2:S0:183:ARG:HA	2:S0:188:LEU:HB2	2.80	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S0:22:THR:HG22	2:S0:169:SER:HB3	1.93	0.49
3:S1:86:LEU:HB3	3:S1:98:THR:OG1	2.13	0.49
4:S2:49:LYS:HB3	4:S2:243:TYR:CE2	2.47	0.49
10:S8:103:GLN:HE21	10:S8:166:TYR:HE1	4.42	0.49
35:SM:133:GLU:O	35:SM:136:ALA:HB3	2.13	0.49
34:SR:172:ALA:HB1	34:SR:199:ILE:HG21	2.73	0.49
36:1:161:G:C6	36:1:162:G:C5	3.01	0.49
36:1:2652:U:OP1	78:Q2:65:THR:OG1	2.24	0.49
36:1:2683:U:H2'	36:1:2684:C:H6	1.73	0.49
36:1:3318:G:C6	36:1:3320:A:C5	3.01	0.49
36:1:1599:G:OP1	92:1:3616:OHX:N6	2.46	0.49
36:1:348:A:H4'	36:1:367:A:H62	1.77	0.49
1:2:1185:A:N1	1:2:1440:C:C5	2.80	0.49
1:2:1347:G:N2	21:C9:3:GLY:HA3	2.28	0.49
1:2:794:A:C2	1:2:841:G:H1'	2.48	0.49
85:5:1161:G:N1	85:5:1162:U:C4	2.81	0.49
85:5:1311:G:H2'	85:5:1312:C:H6	1.77	0.49
85:5:1885:U:H4'	85:5:1886:A:OP1	2.12	0.49
85:5:2943:G:H2'	85:5:2944:U:O4'	2.12	0.49
92:5:3566:OHX:N1	92:5:3640:OHX:N4	2.61	0.49
85:5:420:G:OP1	85:5:420:G:O5'	2.28	0.49
85:5:501:A:H2'	85:5:502:U:H6	1.77	0.49
85:5:824:C:H2'	85:5:825:U:C6	2.47	0.49
85:5:842:G:H2'	85:5:843:A:H8	1.77	0.49
85:5:86:G:O2'	85:5:98:G:O6	2.25	0.49
26:D4:60:PHE:HB2	80:6:523:G:OP1	413.82	0.49
80:6:988:A:H2'	80:6:989:U:O4'	2.12	0.49
13:C1:129:ARG:O	13:C1:130:PRO:C	2.86	0.49
17:C5:115:TYR:HB2	17:C5:118:GLU:HG3	1.94	0.49
18:C6:143:ARG:HH11	80:6:1194:A:H62	347.98	0.49
21:C9:57:ARG:O	21:C9:61:VAL:HG23	2.73	0.49
22:D0:106:ILE:HG23	22:D0:107:THR:HG23	1.94	0.49
26:D4:94:TYR:CB	26:D4:96:LEU:HD12	3.83	0.49
40:L3:106:TRP:HB2	40:L3:133:TYR:CE2	2.85	0.49
40:L3:146:ARG:HA	40:L3:149:ALA:HB3	1.93	0.49
40:L3:173:GLN:O	40:L3:175:LYS:N	2.45	0.49
40:L3:74:GLU:OE1	40:L3:283:TYR:OH	2.82	0.49
41:L4:144:LYS:H	41:L4:144:LYS:HD2	4.61	0.49
43:L6:42:LEU:HD23	43:L6:84:VAL:CG1	4.97	0.49
45:L8:32:LYS:HD3	45:L8:34:PHE:CZ	2.47	0.49
47:M0:48:LEU:O	47:M0:139:ARG:HA	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:M3:105:ASN:ND2	72:O6:17:VAL:HG21	2.93	0.49
51:M5:136:ASP:OD2	51:M5:138:GLN:HG2	2.88	0.49
53:M7:120:ASN:O	53:M7:145:HIS:HB2	2.12	0.49
55:M9:167:ARG:HB3	55:M9:167:ARG:HH11	3.83	0.49
56:N0:103:VAL:O	56:N0:103:VAL:HG12	2.11	0.49
56:N0:33:ASN:ND2	56:N0:36:ILE:HD12	2.27	0.49
58:N2:37:LEU:O	58:N2:41:ILE:HG13	2.28	0.49
67:O1:81:GLU:O	67:O1:82:GLU:HG2	2.13	0.49
70:O4:74:ARG:HG2	70:O4:75:ALA:O	2.13	0.49
2:S0:121:VAL:HG12	2:S0:123:VAL:HG23	1.95	0.49
6:S4:158:ASP:HB3	6:S4:173:ILE:O	2.66	0.49
10:S8:152:ILE:H	10:S8:152:ILE:HD13	4.86	0.49
34:SR:14:GLU:HB3	34:SR:309:VAL:HG22	1.94	0.49
36:1:1340:G:H2'	36:1:1341:U:H6	1.76	0.49
36:1:3018:C:C4	36:1:3019:U:C4	3.01	0.49
36:1:2910:A:O2'	36:1:3130:A:N1	2.37	0.49
36:1:3229:G:O2'	50:M4:133:LYS:HA	2.13	0.49
36:1:3215:A:C5	36:1:3259:U:C2	3.00	0.49
36:1:3269:U:H5'	36:1:3269:U:O2	2.13	0.49
36:1:600:G:H5''	36:1:600:G:H8	1.78	0.49
1:2:563:U:H4'	32:E0:17:GLN:OE1	2.13	0.49
1:2:922:A:H2'	1:2:923:A:C8	2.47	0.49
37:3:27:A:C1'	37:3:57:G:N2	2.76	0.49
37:3:57:G:OP2	37:3:58:C:N4	2.41	0.49
85:5:1027:A:N7	85:5:1029:G:C2	2.81	0.49
72:O6:27:SER:OG	85:5:156:G:OP1	90.44	0.49
85:5:2726:C:O2'	85:5:2727:A:H2'	2.13	0.49
85:5:348:A:N3	85:5:352:A:O2'	2.46	0.49
73:O7:52:LYS:NZ	85:5:353:G:O6	116.47	0.49
85:5:2578:U:P	92:5:3627:OHX:N4	2.86	0.49
85:5:513:G:C5	85:5:579:G:C6	3.01	0.49
85:5:70:A:N1	85:5:313:A:O2'	2.44	0.49
54:M8:8:LYS:NZ	85:5:971:G:OP1	197.00	0.49
80:6:1271:G:H2'	80:6:1272:U:C6	2.46	0.49
80:6:1394:G:O6	92:6:1943:OHX:N3	2.46	0.49
80:6:811:A:C4	80:6:858:G:H1'	2.48	0.49
38:8:10:A:H2'	38:8:11:C:C6	2.48	0.49
38:8:80:A:H2	38:8:83:C:H41	1.58	0.49
14:C2:68:GLU:C	14:C2:70:ASN:H	2.15	0.49
17:C5:89:MET:O	17:C5:107:ILE:HG13	3.00	0.49
18:C6:38:LEU:C	18:C6:40:GLU:H	2.15	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:C8:17:LEU:O	20:C8:19:ASN:N	3.38	0.49
28:D6:44:ILE:HD12	28:D6:45:VAL:N	2.25	0.49
40:L3:139:GLN:O	40:L3:140:ASP:C	2.50	0.49
42:L5:107:ARG:NH1	42:L5:120:LYS:HA	2.28	0.49
42:L5:183:TRP:CZ2	42:L5:188:GLU:HA	2.48	0.49
42:L5:4:GLN:C	42:L5:6:ASP:H	2.89	0.49
44:L7:168:ILE:O	44:L7:172:ASN:ND2	5.04	0.49
92:1:3494:OHX:N6	44:L7:217:PRO:O	2.45	0.49
44:L7:239:LEU:O	44:L7:242:SER:N	2.61	0.49
51:M5:72:LYS:O	51:M5:73:ARG:C	2.49	0.49
51:M5:73:ARG:O	51:M5:75:VAL:N	4.04	0.49
55:M9:21:LYS:HE3	55:M9:55:VAL:HA	1.94	0.49
36:1:1602:A:H5''	55:M9:38:ARG:HG3	1.92	0.49
57:N1:12:ARG:HD2	57:N1:13:TYR:CE2	3.06	0.49
58:N2:98:THR:HG23	58:N2:104:ARG:HH21	6.74	0.49
67:O1:13:THR:HG22	67:O1:72:ARG:HH21	5.08	0.49
67:O1:52:ALA:O	67:O1:55:LEU:N	2.91	0.49
73:O7:52:LYS:CD	73:O7:56:ARG:HH21	2.26	0.49
75:O9:9:ILE:HG22	75:O9:13:MET:HE2	1.94	0.49
75:O9:21:ARG:HD3	75:O9:22:PRO:O	2.12	0.49
75:O9:6:SER:HB3	75:O9:9:ILE:HG12	4.07	0.49
2:S0:84:ARG:HH21	2:S0:201:LEU:HD12	3.24	0.49
4:S2:229:LEU:HD23	23:D1:23:ILE:HD11	3.31	0.49
6:S4:103:TYR:CE1	6:S4:109:PHE:CE1	4.64	0.49
9:S7:16:LEU:O	9:S7:20:VAL:HG23	2.32	0.49
10:S8:57:ALA:HB1	10:S8:60:ILE:HD11	2.28	0.49
36:1:1063:G:C6	36:1:1097:G:C5	3.00	0.49
36:1:112:U:O2'	36:1:113:C:H5''	2.13	0.49
36:1:185:C:H2'	36:1:186:U:C6	2.48	0.49
36:1:2726:C:P	92:1:3662:OHX:N3	2.86	0.49
36:1:2955:U:OP2	36:1:2977:G:N2	2.45	0.49
36:1:3257:C:H2'	36:1:3258:U:O4'	2.13	0.49
36:1:3087:A:C4'	36:1:3375:A:H61	2.26	0.49
36:1:437:G:H2'	36:1:438:A:C8	2.48	0.49
36:1:784:A:HO2'	36:1:785:G:P	2.35	0.49
36:1:835:G:HO2'	36:1:857:G:N2	2.09	0.49
36:1:842:G:C2	36:1:843:A:C8	3.00	0.49
1:2:1374:A:H2'	1:2:1375:U:C6	2.48	0.49
1:2:1730:G:H2'	1:2:1731:G:H8	1.76	0.49
1:2:196:G:O2'	1:2:197:A:H8	1.96	0.49
1:2:641:G:N2	1:2:676:U:O2	2.34	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:73:U:O2'	1:2:74:U:C4	2.66	0.49
85:5:1336:U:OP2	92:5:3703:OHX:N5	2.45	0.49
85:5:1879:A:H2'	85:5:1879:A:N3	2.28	0.49
85:5:2375:G:O2'	85:5:2377:G:OP2	2.27	0.49
85:5:1134:G:O2'	85:5:2642:A:N3	2.31	0.49
85:5:3034:C:H6	85:5:3034:C:O5'	1.95	0.49
85:5:2826:U:O4	92:5:3406:OHX:N6	2.46	0.49
92:5:3503:OHX:N6	92:7:209:OHX:N6	2.61	0.49
92:5:3633:OHX:N3	92:5:3687:OHX:N2	2.61	0.49
85:5:585:A:C4	85:5:586:C:C5	3.00	0.49
80:6:1535:U:HO2'	80:6:1536:G:P	2.36	0.49
80:6:343:C:H2'	80:6:344:A:O4'	2.13	0.49
19:C7:50:ILE:O	19:C7:54:THR:HG23	3.78	0.49
21:C9:106:GLN:HG2	21:C9:122:ARG:HH22	3.44	0.49
28:D6:3:LYS:NZ	28:D6:6:ALA:HA	2.28	0.49
28:D6:87:ARG:NH2	28:D6:91:ASP:O	3.16	0.49
1:2:854:G:O2'	29:D7:67:THR:O	2.26	0.49
39:L2:117:GLU:HB3	39:L2:119:LYS:O	2.13	0.49
39:L2:209:HIS:HD2	39:L2:210:PRO:HD2	1.75	0.49
39:L2:200:ARG:NH1	39:L2:217:GLN:OE1	2.46	0.49
39:L2:29:LEU:HA	39:L2:76:PHE:CE1	2.37	0.49
46:L9:61:GLY:O	46:L9:64:HIS:N	2.45	0.49
48:M1:110:ILE:O	48:M1:113:GLY:O	2.31	0.49
48:M1:81:GLU:O	48:M1:83:GLY:N	2.46	0.49
49:M3:106:GLN:NE2	49:M3:110:ASP:OD1	2.45	0.49
92:1:3563:OHX:N1	51:M5:170:LYS:NZ	2.61	0.49
51:M5:80:THR:O	51:M5:81:TYR:O	2.30	0.49
53:M7:27:LYS:HG2	53:M7:63:PHE:CG	2.48	0.49
54:M8:46:LYS:O	54:M8:50:LYS:HG3	5.17	0.49
55:M9:13:SER:HG	55:M9:38:ARG:HH22	1.58	0.49
56:N0:1:MET:HE1	56:N0:32:SER:N	2.26	0.49
57:N1:38:ASP:O	57:N1:64:VAL:HG12	2.70	0.49
63:N7:41:ALA:O	63:N7:43:VAL:HG13	3.41	0.49
64:N8:24:LYS:HD2	64:N8:26:ARG:NH2	2.28	0.49
92:1:3568:OHX:N2	68:O2:14:THR:O	2.45	0.49
2:S0:105:GLY:N	2:S0:135:GLU:OE2	3.19	0.49
2:S0:35:PRO:O	2:S0:37:VAL:N	2.45	0.49
4:S2:94:GLN:HG2	4:S2:95:ARG:H	3.44	0.49
10:S8:184:LEU:HB3	10:S8:189:LEU:HB2	1.94	0.49
34:SR:197:SER:OG	34:SR:217:ASP:OD1	3.48	0.49
34:SR:274:LEU:HD13	34:SR:313:TRP:CE3	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1240:A:H3'	36:1:1241:U:H5'	1.95	0.49
36:1:1700:G:H2'	36:1:1701:C:C6	2.48	0.49
36:1:183:G:N2	36:1:184:U:C2	2.80	0.49
36:1:1449:A:C2	36:1:2356:A:C5	3.00	0.49
36:1:2851:A:H2'	36:1:2852:C:H6	1.76	0.49
36:1:3189:G:C2	36:1:3190:C:C2	3.00	0.49
36:1:696:C:OP2	41:L4:119:ARG:NH2	2.36	0.49
36:1:895:A:N3	36:1:895:A:H2'	2.28	0.49
1:2:1300:C:O2	1:2:1383:A:H2	1.95	0.49
1:2:1668:G:H1	1:2:1812:C:H42	1.61	0.49
1:2:1137:G:O6	92:2:2013:OHX:N3	2.46	0.49
1:2:737:A:N1	1:2:776:A:H2'	2.28	0.49
36:1:1196:C:C2	92:3:204:OHX:N2	2.81	0.49
85:5:1254:C:N4	85:5:1263:A:C4	2.81	0.49
70:O4:9:ARG:NH2	85:5:1606:U:O4	140.11	0.49
85:5:644:G:H2'	85:5:2372:A:C5	2.48	0.49
85:5:2811:A:C2	85:5:2812:C:C5	3.01	0.49
85:5:2846:U:H6	85:5:2846:U:C4'	2.25	0.49
85:5:2954:U:O4	97:5:3403:SPS:H141	2.11	0.49
85:5:3013:U:N3	85:5:3014:U:C4	2.81	0.49
85:5:3086:A:H2'	85:5:3086:A:N3	2.28	0.49
85:5:3197:G:H2'	85:5:3198:U:H5''	1.95	0.49
92:5:3555:OHX:N1	92:5:3740:OHX:N5	2.61	0.49
85:5:544:C:HO2'	85:5:545:U:H6	1.61	0.49
85:5:884:A:C8	85:5:2139:A:C8	3.00	0.49
8:S6:87:ARG:NH2	80:6:161:U:OP2	314.25	0.49
80:6:325:G:C6	80:6:344:A:N1	2.81	0.49
11:S9:124:HIS:CD2	80:6:479:C:H5'	451.72	0.49
80:6:961:U:H2'	80:6:962:C:C6	2.47	0.49
80:6:998:A:N7	80:6:999:U:C5	2.81	0.49
17:C5:127:ARG:HG3	17:C5:130:ARG:HD3	6.94	0.49
1:2:1466:A:H4'	18:C6:72:GLY:N	2.28	0.49
21:C9:81:GLY:HA3	21:C9:93:HIS:HE1	1.78	0.49
22:D0:48:HIS:O	22:D0:48:HIS:CG	2.65	0.49
24:D2:80:ASN:OD1	80:6:747:C:O2'	356.89	0.49
1:2:159:U:C6	26:D4:117:LYS:HG2	2.48	0.49
26:D4:40:LEU:O	26:D4:44:LEU:HB2	2.75	0.49
27:D5:41:ILE:HG13	27:D5:42:LEU:HD12	1.95	0.49
39:L2:97:ASN:HB2	39:L2:100:ASN:ND2	3.29	0.49
36:1:2179:C:O3'	39:L2:174:ARG:NH2	2.46	0.49
40:L3:139:GLN:OE1	40:L3:142:ALA:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:360:ASP:OD2	40:L3:364:LYS:NZ	2.99	0.49
41:L4:115:HIS:CE1	41:L4:119:ARG:HH12	4.75	0.49
41:L4:251:THR:O	41:L4:252:GLU:C	2.72	0.49
41:L4:71:VAL:HG13	41:L4:72:ALA:O	2.13	0.49
42:L5:5:LYS:HA	42:L5:5:LYS:HZ1	5.70	0.49
42:L5:83:LEU:HB3	42:L5:88:ILE:HB	1.95	0.49
43:L6:23:LYS:HD2	85:5:611:A:C2	238.05	0.49
45:L8:184:ALA:HA	45:L8:194:THR:HA	1.94	0.49
55:M9:60:LYS:NZ	85:5:1671:C:H5''	170.57	0.49
59:N3:28:ASN:ND2	59:N3:112:SER:OG	2.45	0.49
61:N5:73:MET:HE3	61:N5:73:MET:HA	4.45	0.49
66:O0:42:ILE:HG13	66:O0:67:VAL:HG13	1.95	0.49
2:S0:109:ASN:O	2:S0:112:THR:HG22	2.12	0.49
3:S1:91:VAL:HG13	3:S1:96:LEU:HB3	5.28	0.49
7:S5:205:SER:C	7:S5:207:THR:H	2.34	0.49
8:S6:4:ASN:HA	8:S6:15:THR:HG22	1.94	0.49
11:S9:36:LEU:O	32:E0:33:ARG:HG3	2.13	0.49
5:S3:121:GLY:N	35:SM:123:ALA:HB1	2.28	0.49
35:SM:54:PRO:HB2	35:SM:59:GLY:HA2	1.95	0.49
34:SR:201:THR:CB	34:SR:242:SER:HA	2.42	0.49
36:1:1947:G:H1	36:1:2101:C:H42	1.61	0.49
36:1:2296:A:H2'	36:1:2297:U:H5'	1.95	0.49
36:1:3083:G:H2'	36:1:3084:C:C6	2.48	0.49
36:1:494:G:H3'	36:1:494:G:OP1	2.13	0.49
1:2:1547:U:H2'	1:2:1548:C:C6	2.48	0.49
37:3:28:C:C4	37:3:29:C:C2	3.01	0.49
38:4:73:U:O2'	38:4:90:U:OP1	2.29	0.49
38:4:97:A:H2'	38:4:98:U:C6	2.48	0.49
85:5:1062:A:OP2	92:5:3727:OHX:N5	2.46	0.49
85:5:1520:G:C2	85:5:1521:G:C4	3.01	0.49
85:5:1741:A:C6	85:5:1742:U:O2	2.66	0.49
85:5:2717:U:C2	85:5:2740:A:C2	3.00	0.49
85:5:996:A:C2	85:5:997:A:H1'	2.47	0.49
80:6:1294:G:C2	80:6:1322:A:C5	3.01	0.49
8:S6:149:LYS:HD2	80:6:141:U:P	316.10	0.49
80:6:1778:G:N2	80:6:1783:C:O2	2.44	0.49
80:6:754:A:N6	80:6:793:A:H62	2.11	0.49
80:6:88:U:H2'	80:6:89:G:H8	1.77	0.49
15:C3:105:ASN:HB3	80:6:879:G:O2'	274.67	0.49
15:C3:55:ARG:NH1	15:C3:56:ASP:OD1	4.62	0.49
15:C3:89:TYR:O	15:C3:92:ILE:N	3.24	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:C9:117:SER:HB2	21:C9:123:ARG:CB	2.42	0.49
30:D8:15:VAL:HA	30:D8:28:VAL:HG22	1.95	0.49
40:L3:296:THR:H	40:L3:299:ASP:HB3	1.78	0.49
42:L5:95:TRP:HZ3	42:L5:156:GLY:O	7.93	0.49
42:L5:86:TYR:CD1	42:L5:247:ILE:HA	2.53	0.49
42:L5:28:THR:O	85:5:2703:A:N6	280.17	0.49
42:L5:9:SER:OG	42:L5:10:SER:N	2.45	0.49
44:L7:217:PRO:HG2	44:L7:218:ARG:H	1.78	0.49
44:L7:239:LEU:HD22	44:L7:243:MET:SD	2.53	0.49
45:L8:187:GLY:O	45:L8:190:VAL:N	3.25	0.49
47:M0:175:ASN:O	47:M0:176:LEU:HB2	4.68	0.49
36:1:699:A:OP1	49:M3:68:LYS:HE2	2.13	0.49
46:L9:17:THR:HA	50:M4:5:SER:OG	3.25	0.49
51:M5:62:TYR:O	51:M5:132:VAL:N	2.66	0.49
53:M7:32:THR:O	53:M7:35:ALA:HB3	3.63	0.49
55:M9:21:LYS:HD2	85:5:1874:A:OP2	140.29	0.49
57:N1:11:THR:HG21	57:N1:15:PHE:CE1	2.48	0.49
72:O6:26:ILE:O	72:O6:29:LYS:N	2.35	0.49
76:Q0:79:GLU:O	76:Q0:81:SER:N	2.72	0.49
2:S0:27:ARG:NE	2:S0:44:GLY:O	4.72	0.49
1:2:1050:C:H5''	3:S1:150:VAL:HG12	1.95	0.49
5:S3:133:GLY:HA3	5:S3:156:PHE:O	2.13	0.49
6:S4:103:TYR:CD1	6:S4:189:LEU:HD11	2.47	0.49
6:S4:86:PHE:CD1	6:S4:87:MET:HG2	2.47	0.49
7:S5:145:ASP:O	7:S5:159:ALA:HA	2.13	0.49
7:S5:43:PHE:HD2	7:S5:46:TRP:HD1	5.89	0.49
9:S7:80:GLU:O	9:S7:84:LYS:HB2	2.13	0.49
34:SR:267:PRO:HD2	34:SR:269:TYR:HE1	3.49	0.49
36:1:1668:G:H2'	36:1:1669:C:O4'	2.12	0.48
36:1:1763:U:H5'	36:1:1764:U:OP2	2.12	0.48
36:1:2402:A:O2'	92:1:3702:OHX:N3	2.46	0.48
36:1:2717:U:C4	36:1:2740:A:N1	2.81	0.48
36:1:2987:A:H2'	36:1:2988:C:C6	2.48	0.48
36:1:3155:U:H3'	36:1:3156:U:C4'	2.40	0.48
36:1:3338:C:H2'	36:1:3339:A:C8	2.48	0.48
36:1:651:G:C6	36:1:652:G:C6	3.00	0.48
36:1:745:C:H5''	54:M8:145:ASN:OD1	2.13	0.48
1:2:579:A:O2'	92:2:2023:OHX:N3	2.46	0.48
1:2:685:G:O6	1:2:720:A:N6	2.46	0.48
37:3:28:C:OP1	48:M1:137:ARG:NH1	2.44	0.48
85:5:1002:A:N1	85:5:1051:U:C6	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:2107:A:C6	85:5:2108:C:C4	3.01	0.48
40:L3:123:TYR:CD1	85:5:3315:G:H2'	180.79	0.48
85:5:392:G:C6	85:5:393:U:C4	3.01	0.48
85:5:703:G:C5	85:5:704:U:C5	3.01	0.48
85:5:746:A:O2'	85:5:747:A:H5'	2.13	0.48
80:6:1357:A:H2'	80:6:1358:G:H8	1.78	0.48
80:6:1297:G:O6	92:6:2022:OHX:N3	2.46	0.48
80:6:492:A:H2'	80:6:493:U:H5''	1.95	0.48
80:6:647:G:O5'	80:6:647:G:H8	1.96	0.48
92:5:3590:OHX:N2	38:8:18:U:OP1	2.45	0.48
13:C1:93:TYR:HB2	13:C1:100:TYR:CE1	3.04	0.48
17:C5:77:ARG:HB3	17:C5:102:PHE:CD1	3.17	0.48
17:C5:95:GLY:O	17:C5:102:PHE:HB3	2.12	0.48
7:S5:74:ALA:HB2	18:C6:79:TYR:CE1	3.11	0.48
19:C7:14:LYS:O	19:C7:18:GLU:HB2	2.13	0.48
21:C9:118:PRO:O	21:C9:120:GLY:N	2.46	0.48
26:D4:22:GLN:HB2	26:D4:72:PHE:CE1	2.48	0.48
28:D6:20:PRO:HA	28:D6:31:PRO:HA	1.95	0.48
28:D6:70:LYS:HG2	28:D6:72:HIS:HE1	5.18	0.48
29:D7:41:LEU:H	29:D7:41:LEU:HD23	3.35	0.48
40:L3:13:HIS:ND1	40:L3:13:HIS:C	2.66	0.48
40:L3:153:LYS:HG2	40:L3:154:TYR:CE2	3.54	0.48
40:L3:153:LYS:HB3	40:L3:154:TYR:CE2	3.27	0.48
41:L4:324:LEU:HD12	41:L4:324:LEU:O	2.12	0.48
42:L5:187:THR:O	42:L5:189:GLU:N	2.46	0.48
42:L5:58:LYS:HD3	42:L5:93:THR:OG1	2.13	0.48
44:L7:82:LYS:O	44:L7:119:VAL:HG23	2.15	0.48
44:L7:33:ARG:NH1	85:5:596:C:OP1	236.38	0.48
47:M0:87:LEU:HD23	47:M0:138:VAL:HG23	5.39	0.48
53:M7:3:ARG:NH2	85:5:398:A:C8	126.21	0.48
54:M8:70:ALA:O	54:M8:73:GLN:HG3	2.13	0.48
55:M9:23:TRP:CH2	55:M9:25:ASP:HB2	2.48	0.48
56:N0:57:GLU:HB3	57:N1:136:ARG:NH2	3.71	0.48
57:N1:143:THR:OG1	57:N1:146:ASN:O	2.30	0.48
58:N2:104:ARG:HH11	58:N2:106:ALA:HB2	3.96	0.48
58:N2:64:THR:HG22	58:N2:64:THR:O	2.89	0.48
59:N3:26:ALA:HB3	59:N3:101:VAL:HG13	1.95	0.48
60:N4:4:GLU:HG2	60:N4:30:ARG:HD2	1.95	0.48
36:1:943:U:H2'	64:N8:12:ARG:HD3	1.95	0.48
65:N9:21:ILE:HG22	65:N9:22:LYS:N	3.35	0.48
70:O4:4:ARG:NE	85:5:1481:A:C2	155.70	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
72:O6:55:ARG:HA	72:O6:58:ILE:HD13	1.95	0.48
2:S0:106:SER:N	2:S0:135:GLU:OE2	2.52	0.48
2:S0:56:LYS:NZ	23:D1:66:ASP:OD1	2.46	0.48
5:S3:44:THR:HG22	5:S3:45:LYS:HG3	1.94	0.48
6:S4:200:ARG:O	6:S4:201:HIS:HB2	2.13	0.48
8:S6:22:HIS:CD2	40:L3:300:ARG:NH1	2.82	0.48
9:S7:117:THR:HG23	9:S7:120:ALA:H	1.78	0.48
9:S7:133:THR:HG22	9:S7:157:LYS:O	2.69	0.48
10:S8:166:TYR:O	10:S8:184:LEU:HB2	2.83	0.48
11:S9:60:LEU:HD22	11:S9:93:LEU:HD11	1.94	0.48
36:1:1266:G:C2	36:1:1276:U:C2	3.01	0.48
36:1:122:A:O2'	36:1:145:G:N2	2.44	0.48
36:1:1627:U:C2	36:1:1817:G:N1	2.81	0.48
36:1:167:U:H2'	36:1:168:U:C6	2.48	0.48
36:1:1631:C:O2	36:1:1812:G:N2	2.46	0.48
36:1:208:C:H2'	36:1:209:A:O4'	2.13	0.48
36:1:212:G:OP1	36:1:227:G:N2	2.46	0.48
36:1:2385:G:C4	36:1:3143:C:C5	3.01	0.48
36:1:2885:C:C4	36:1:2886:U:O4	2.66	0.48
36:1:1938:U:O4	92:1:3451:OHX:N5	2.46	0.48
36:1:979:U:O2'	36:1:980:A:N7	2.46	0.48
1:2:1035:U:OP1	1:2:1036:G:H5''	2.13	0.48
1:2:1041:U:O2'	1:2:1043:U:OP2	2.28	0.48
1:2:1667:U:O2	1:2:1701:G:C2	2.66	0.48
37:3:17:A:C6	37:3:18:C:C4	3.01	0.48
37:3:36:C:O2	37:3:45:A:H1'	2.12	0.48
37:3:18:C:H42	37:3:61:G:H1	1.59	0.48
37:3:65:G:N2	37:3:66:A:C4	2.81	0.48
85:5:1011:A:C2	85:5:1040:A:N1	2.80	0.48
85:5:1673:G:C5	85:5:1775:G:C2	3.01	0.48
85:5:2114:C:H5'	85:5:2115:G:OP1	2.13	0.48
85:5:2595:A:OP1	92:5:3545:OHX:N3	2.46	0.48
51:M5:12:ARG:HG2	85:5:268:A:C4	127.69	0.48
92:5:3503:OHX:N5	92:7:209:OHX:N2	2.60	0.48
85:5:1409:G:O6	92:5:3662:OHX:N6	2.46	0.48
85:5:678:G:N2	85:5:702:C:O2	2.40	0.48
85:5:751:A:H2'	85:5:752:C:H6	1.78	0.48
85:5:87:U:H2'	85:5:88:A:C8	2.45	0.48
80:6:1070:C:H2'	80:6:1071:U:C6	2.48	0.48
80:6:1277:G:C5	80:6:1278:G:C5	3.01	0.48
80:6:1202:A:H62	80:6:1456:C:H3'	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:154:G:H1	80:6:160:C:H42	1.60	0.48
80:6:21:U:C2	80:6:22:A:C8	3.01	0.48
80:6:562:G:H1	80:6:583:C:N4	2.09	0.48
12:C0:74:GLU:HA	12:C0:77:ARG:HG3	4.97	0.48
15:C3:87:ASP:OD1	80:6:867:G:N2	317.30	0.48
21:C9:98:GLY:O	21:C9:102:ARG:HB2	2.46	0.48
36:1:2147:A:OP1	39:L2:199:THR:HA	2.13	0.48
40:L3:46:PHE:CE2	40:L3:205:VAL:HG13	3.24	0.48
41:L4:198:ARG:NH1	62:N6:12:ARG:HH12	3.64	0.48
42:L5:120:LYS:O	42:L5:248:ARG:NH2	2.88	0.48
42:L5:36:LEU:HD23	85:5:2748:A:H1'	253.23	0.48
47:M0:48:LEU:HG	47:M0:142:ASP:HA	1.95	0.48
47:M0:171:TRP:CG	47:M0:181:TYR:CD2	3.02	0.48
47:M0:34:TYR:OH	47:M0:93:PRO:HD2	2.73	0.48
48:M1:12:LEU:HD12	48:M1:131:MET:HE2	1.95	0.48
51:M5:138:GLN:HA	51:M5:143:ARG:HH11	1.78	0.48
52:M6:84:LEU:O	52:M6:85:ARG:C	2.52	0.48
57:N1:39:ILE:CD1	57:N1:102:ARG:HD3	2.43	0.48
58:N2:101:ASN:HA	58:N2:103:TYR:CE2	3.08	0.48
58:N2:15:PHE:N	58:N2:65:VAL:O	2.65	0.48
61:N5:24:LEU:HD22	61:N5:25:LYS:H	3.81	0.48
64:N8:113:LEU:O	64:N8:115:LYS:N	4.08	0.48
54:M8:178:ARG:HD3	64:N8:50:PRO:HB2	3.37	0.48
67:O1:107:VAL:HG12	67:O1:108:VAL:N	2.98	0.48
69:O3:91:ALA:C	69:O3:93:THR:H	2.69	0.48
36:1:2907:G:H1'	76:Q0:100:TYR:HD2	1.78	0.48
78:Q2:10:THR:OG1	78:Q2:11:TYR:N	2.46	0.48
2:S0:114:SER:HB2	2:S0:116:LYS:NZ	4.94	0.48
2:S0:120:LEU:HD21	2:S0:144:ILE:HD12	1.94	0.48
2:S0:184:LEU:HB3	23:D1:45:ALA:HB2	1.95	0.48
3:S1:70:LEU:HB2	3:S1:82:ARG:O	4.73	0.48
4:S2:212:LYS:O	4:S2:216:VAL:HG23	2.13	0.48
6:S4:231:GLN:O	6:S4:233:LYS:N	2.93	0.48
6:S4:50:ASN:O	6:S4:51:ARG:NE	3.29	0.48
9:S7:71:HIS:HD2	9:S7:74:GLN:OE1	6.65	0.48
34:SR:116:ASP:OD2	34:SR:119:ALA:N	2.86	0.48
34:SR:18:GLY:N	34:SR:39:ASP:OD2	2.37	0.48
34:SR:63:GLY:HA2	80:6:1341:A:OP1	449.61	0.48
36:1:1225:A:C2	36:1:3116:G:C4	3.01	0.48
36:1:1650:G:O6	92:1:3674:OHX:N2	2.46	0.48
36:1:1722:U:H5''	55:M9:99:LEU:HD12	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1757:A:H2'	36:1:1758:G:C8	2.48	0.48
36:1:1868:G:C5	36:1:1869:C:C4	3.01	0.48
36:1:2284:C:H3'	36:1:2285:C:C6	2.48	0.48
36:1:2299:A:C6	36:1:2300:G:N7	2.82	0.48
36:1:2660:G:O3'	36:1:2749:G:N2	2.45	0.48
36:1:3015:G:C5	36:1:3040:A:C2	3.01	0.48
36:1:3174:A:H2'	36:1:3175:U:H5'	1.95	0.48
36:1:3294:A:H2'	36:1:3295:A:O4'	2.13	0.48
36:1:67:A:OP2	92:1:3447:OHX:N6	2.46	0.48
36:1:353:G:O2'	36:1:354:U:P	2.72	0.48
36:1:394:G:N2	36:1:396:A:H2'	2.28	0.48
36:1:641:C:H6	36:1:641:C:H3'	1.78	0.48
36:1:953:G:H2'	36:1:1117:G:H5''	1.95	0.48
1:2:1364:U:H4'	22:D0:59:PRO:HG3	1.94	0.48
1:2:154:G:O6	26:D4:128:LYS:NZ	2.24	0.48
1:2:1643:A:H5'	59:N3:67:PRO:HG2	1.95	0.48
1:2:973:C:OP2	92:2:1967:OHX:N4	2.46	0.48
1:2:225:A:H2'	1:2:226:A:O4'	2.13	0.48
1:2:986:A:C4	1:2:988:A:C6	3.02	0.48
37:3:35:C:H2'	37:3:36:C:O4'	2.14	0.48
37:3:97:A:H2'	37:3:98:C:C6	2.48	0.48
85:5:101:G:N3	85:5:101:G:H3'	2.28	0.48
85:5:142:C:H2'	85:5:143:G:O4'	2.12	0.48
75:O9:41:ARG:NH1	85:5:1517:G:OP1	98.13	0.48
85:5:189:G:C6	85:5:206:G:C5	3.02	0.48
85:5:18:G:O6	92:5:3606:OHX:N6	2.46	0.48
85:5:2433:U:C4	85:5:2434:U:C4	3.01	0.48
85:5:2540:A:O2'	85:5:2541:U:H2'	2.13	0.48
85:5:2837:A:C2	85:5:2850:G:C2	3.00	0.48
85:5:3025:C:H2'	85:5:3026:G:O4'	2.13	0.48
85:5:650:C:O5'	85:5:650:C:H6	1.97	0.48
80:6:1138:A:H2'	80:6:1139:A:C8	2.44	0.48
80:6:1720:G:O6	92:6:1948:OHX:N6	2.45	0.48
4:S2:197:TYR:HB3	80:6:2:A:O2'	390.24	0.48
80:6:329:G:C4	80:6:330:G:C8	3.01	0.48
11:S9:173:ALA:N	80:6:512:A:OP2	457.50	0.48
80:6:961:U:H2'	80:6:962:C:H6	1.79	0.48
19:C7:30:THR:HG22	34:SR:127:ARG:NH2	3.03	0.48
39:L2:48:ILE:HA	39:L2:59:ALA:HA	1.94	0.48
40:L3:68:HIS:O	40:L3:69:LYS:HB2	2.21	0.48
41:L4:280:ILE:HD13	54:M8:23:ASN:ND2	2.62	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:L8:67:ILE:HG23	45:L8:237:ILE:HD12	1.94	0.48
46:L9:31:ARG:HB3	46:L9:149:ASN:ND2	2.71	0.48
47:M0:75:TYR:CE1	47:M0:150:GLU:HG3	3.80	0.48
47:M0:78:THR:O	47:M0:79:VAL:C	4.00	0.48
48:M1:30:LEU:O	48:M1:33:ALA:N	2.46	0.48
50:M4:135:LEU:HA	50:M4:135:LEU:HD22	3.59	0.48
50:M4:99:TRP:CE2	85:5:3206:C:C6	310.69	0.48
53:M7:96:GLN:O	53:M7:99:ALA:HB3	2.13	0.48
56:N0:24:LEU:HD22	56:N0:59:VAL:HG21	2.71	0.48
57:N1:51:GLY:O	57:N1:95:HIS:CD2	2.90	0.48
62:N6:36:SER:O	62:N6:40:ARG:N	2.46	0.48
65:N9:46:ALA:O	65:N9:50:THR:HG22	2.12	0.48
74:O8:15:THR:O	74:O8:70:PRO:HG2	2.25	0.48
76:Q0:118:THR:OG1	76:Q0:119:ASN:N	2.45	0.48
78:Q2:68:VAL:O	78:Q2:84:THR:HA	2.13	0.48
3:S1:69:CYS:CB	16:C4:114:ARG:HD3	3.06	0.48
1:2:1081:U:C5	4:S2:224:PHE:HE2	2.31	0.48
6:S4:252:ARG:NH2	6:S4:252:ARG:HB3	4.77	0.48
6:S4:67:GLN:O	6:S4:68:ARG:HB2	2.55	0.48
7:S5:44:ASN:O	7:S5:45:LYS:HG2	2.13	0.48
8:S6:3:LEU:HD11	8:S6:27:PHE:HE2	1.76	0.48
10:S8:63:GLY:O	10:S8:65:PHE:CD2	3.75	0.48
19:C7:29:GLN:HB3	34:SR:85:TRP:CZ3	2.47	0.48
36:1:1579:C:N4	36:1:1580:A:H62	2.12	0.48
36:1:1782:U:H2'	36:1:1783:U:O4'	2.13	0.48
36:1:2522:G:H2'	36:1:2522:G:N3	2.29	0.48
36:1:2601:A:H2'	36:1:2602:G:H8	1.77	0.48
36:1:2682:C:OP1	48:M1:48:SER:OG	2.30	0.48
36:1:2705:A:OP2	92:1:3407:OHX:N1	2.47	0.48
36:1:2973:G:C5'	36:1:2974:U:OP2	2.61	0.48
36:1:3006:A:C2	36:1:3141:A:C4	3.02	0.48
36:1:3133:C:C2	36:1:3134:A:C8	3.02	0.48
36:1:3273:A:C2'	36:1:3274:A:H5'	2.43	0.48
36:1:652:G:OP1	92:1:3467:OHX:N4	2.46	0.48
92:1:3600:OHX:N1	92:1:3648:OHX:N4	2.61	0.48
36:1:68:C:N3	36:1:69:C:C5	2.81	0.48
36:1:860:G:P	39:L2:181:LYS:HZ1	2.36	0.48
36:1:987:U:H2'	36:1:988:U:C6	2.48	0.48
1:2:1164:U:H2'	1:2:1165:U:O4'	2.13	0.48
1:2:1392:G:N1	1:2:1395:G:OP2	2.41	0.48
1:2:607:G:H5'	1:2:613:G:N2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:912:A:N6	1:2:913:A:N1	2.61	0.48
85:5:69:C:O2'	85:5:101:G:O2'	2.08	0.48
85:5:1251:A:H2'	85:5:1252:A:O4'	2.13	0.48
85:5:1254:C:H2'	85:5:1255:C:C6	2.49	0.48
85:5:163:C:H2'	85:5:164:A:C8	2.49	0.48
85:5:203:G:O2'	85:5:204:A:H5'	2.13	0.48
85:5:2412:G:H2'	85:5:2413:A:C8	2.48	0.48
85:5:262:U:H2'	85:5:263:C:O4'	2.13	0.48
85:5:3197:G:C2	85:5:3199:G:C5	3.01	0.48
85:5:1735:G:O6	92:5:3472:OHX:N5	2.47	0.48
85:5:668:G:N7	85:5:795:G:N2	2.62	0.48
80:6:1039:A:H61	80:6:1079:U:H3	1.61	0.48
80:6:313:U:C5	80:6:1118:G:N2	2.81	0.48
80:6:1600:A:H4'	80:6:1601:G:OP1	2.13	0.48
80:6:1672:G:H2'	80:6:1673:G:C8	2.47	0.48
80:6:620:A:N7	80:6:621:A:N1	2.62	0.48
80:6:639:U:H1'	80:6:640:U:C5	2.48	0.48
80:6:779:U:O2'	80:6:780:A:OP1	2.30	0.48
80:6:909:U:H2'	80:6:910:C:H6	1.78	0.48
80:6:961:U:C2	80:6:962:C:C5	3.01	0.48
13:C1:16:GLN:HB2	13:C1:19:ILE:HG13	3.54	0.48
16:C4:18:ARG:N	16:C4:29:HIS:O	4.80	0.48
17:C5:15:HIS:O	17:C5:21:ASP:HA	2.13	0.48
18:C6:54:LEU:HD12	18:C6:108:ALA:O	2.13	0.48
20:C8:140:THR:O	20:C8:143:ARG:NH1	2.46	0.48
20:C8:18:LEU:O	20:C8:19:ASN:HB2	2.70	0.48
22:D0:22:ILE:HG13	22:D0:117:VAL:O	2.58	0.48
39:L2:136:ILE:HA	39:L2:148:VAL:HG12	1.96	0.48
40:L3:56:ILE:HD11	40:L3:356:LEU:HD13	3.63	0.48
41:L4:168:ALA:O	41:L4:172:VAL:HG23	5.62	0.48
45:L8:190:VAL:O	45:L8:190:VAL:HG12	3.61	0.48
47:M0:46:PHE:HB2	47:M0:139:ARG:HG3	1.96	0.48
47:M0:69:ARG:HD2	47:M0:70:ILE:N	2.28	0.48
48:M1:95:ASN:HB3	48:M1:103:GLY:O	2.79	0.48
48:M1:96:PHE:CE1	48:M1:160:VAL:HG23	4.53	0.48
49:M3:131:LYS:H	49:M3:131:LYS:HG2	1.38	0.48
50:M4:128:ARG:O	50:M4:131:VAL:N	3.63	0.48
50:M4:36:VAL:HB	50:M4:45:LEU:HD23	2.03	0.48
50:M4:85:TRP:NE1	50:M4:90:VAL:HB	2.28	0.48
51:M5:172:ARG:HG2	51:M5:174:ILE:HD13	5.30	0.48
58:N2:15:PHE:CE2	58:N2:71:PHE:CD1	3.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:N3:23:MET:O	59:N3:34:LEU:N	2.69	0.48
59:N3:85:TRP:O	59:N3:92:PHE:HA	2.31	0.48
62:N6:89:LYS:HB2	62:N6:91:ASN:OD1	3.77	0.48
36:1:1117:G:OP1	65:N9:4:SER:HB2	2.12	0.48
69:O3:89:LEU:HA	69:O3:89:LEU:HD23	1.57	0.48
70:O4:20:ILE:HD13	70:O4:20:ILE:HA	1.54	0.48
74:O8:16:ARG:NH1	74:O8:70:PRO:HG3	4.35	0.48
76:Q0:105:PRO:HD2	76:Q0:106:ARG:H	1.78	0.48
39:L2:177:LYS:HB2	79:Q3:29:LEU:HD13	2.83	0.48
4:S2:242:ILE:HG22	4:S2:243:TYR:CD1	2.65	0.48
5:S3:15:GLY:HA3	31:D9:50:ILE:HG23	1.95	0.48
5:S3:209:ILE:HD12	5:S3:210:GLU:H	3.14	0.48
6:S4:68:ARG:NH1	6:S4:76:VAL:HG21	2.29	0.48
7:S5:94:THR:HG22	7:S5:114:ILE:CG1	2.39	0.48
8:S6:2:LYS:O	8:S6:108:VAL:HA	2.13	0.48
10:S8:135:LYS:HB2	10:S8:136:SER:H	4.03	0.48
10:S8:39:GLY:H	10:S8:60:ILE:C	2.16	0.48
10:S8:70:GLU:HB3	10:S8:112:TRP:CH2	4.79	0.48
34:SR:177:MET:HG3	34:SR:193:ILE:HG12	1.96	0.48
36:1:2176:U:OP1	39:L2:54:ARG:NH2	2.47	0.48
36:1:2238:G:C2	36:1:2239:G:C8	3.01	0.48
36:1:2369:G:C6	36:1:2370:G:C6	3.01	0.48
36:1:2443:A:O2'	36:1:2444:C:H5'	2.12	0.48
36:1:3037:U:O4	92:1:3607:OHX:N2	2.46	0.48
36:1:3170:A:N6	36:1:3280:U:H3	2.12	0.48
36:1:32:U:O5'	36:1:32:U:H6	1.96	0.48
36:1:3306:U:H2'	36:1:3307:A:H5''	1.96	0.48
92:1:3507:OHX:N6	92:1:3691:OHX:N2	2.61	0.48
36:1:1658:G:O6	92:1:3699:OHX:N3	2.46	0.48
36:1:703:G:C5	36:1:704:U:C5	3.01	0.48
1:2:1466:A:H5'	18:C6:71:GLY:HA2	1.96	0.48
1:2:1452:A:H4'	1:2:1524:G:H4'	1.95	0.48
1:2:240:U:H4'	1:2:241:U:OP2	2.13	0.48
1:2:692:C:N4	1:2:693:U:H1'	2.29	0.48
38:4:2:A:OP2	92:4:202:OHX:N1	2.47	0.48
38:4:37:A:OP2	71:O5:86:ARG:HG3	2.13	0.48
85:5:1093:A:OP1	85:5:1093:A:H4'	2.13	0.48
85:5:1161:G:C2	85:5:1162:U:C6	3.01	0.48
41:L4:309:ARG:HG2	85:5:1361:U:OP1	213.41	0.48
85:5:1595:U:O2	85:5:1596:C:C6	2.67	0.48
85:5:1908:A:H2'	85:5:1909:A:O4'	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:2235:C:C5	85:5:2236:G:N7	2.82	0.48
85:5:397:A:H5''	85:5:398:A:H3'	1.95	0.48
80:6:1151:A:H4'	80:6:1766:A:N7	2.29	0.48
80:6:189:C:N3	80:6:197:A:H2	2.12	0.48
80:6:833:U:P	92:6:2018:OHX:N5	2.87	0.48
80:6:658:C:N4	80:6:673:A:N1	2.61	0.48
80:6:691:C:OP1	80:6:696:C:N4	2.47	0.48
80:6:872:G:H2'	80:6:873:U:O4'	2.14	0.48
17:C5:36:LEU:N	17:C5:36:LEU:HD13	4.88	0.48
21:C9:64:HIS:CE1	21:C9:68:ARG:NH2	2.95	0.48
22:D0:58:LEU:HB2	22:D0:88:LYS:O	2.13	0.48
23:D1:41:GLU:HB2	23:D1:44:ARG:NH2	5.13	0.48
23:D1:60:ARG:HG2	23:D1:65:SER:CB	3.23	0.48
4:S2:230:TRP:NE1	24:D2:68:ARG:HB3	2.29	0.48
24:D2:46:TYR:HB3	24:D2:69:LEU:HD22	1.95	0.48
25:D3:10:ASN:HB2	80:6:633:U:OP1	337.30	0.48
28:D6:84:VAL:C	28:D6:85:ARG:HG2	4.90	0.48
31:D9:24:CYS:O	31:D9:26:SER:N	2.86	0.48
40:L3:158:VAL:HG23	40:L3:188:ILE:HG22	1.95	0.48
40:L3:224:HIS:HB2	40:L3:270:ARG:O	2.14	0.48
40:L3:28:ARG:HH21	40:L3:30:LYS:CE	2.26	0.48
40:L3:59:ASP:OD1	40:L3:357:LYS:HE3	2.12	0.48
42:L5:155:THR:HB	42:L5:179:ARG:HH11	1.76	0.48
42:L5:43:LYS:O	42:L5:46:THR:OG1	3.49	0.48
43:L6:159:LEU:HD23	43:L6:159:LEU:HA	1.61	0.48
44:L7:160:ARG:HG3	44:L7:203:TRP:CD2	2.48	0.48
46:L9:94:TYR:HB3	46:L9:99:ILE:HG13	2.66	0.48
47:M0:200:LEU:HD13	47:M0:216:TYR:HD1	6.89	0.48
47:M0:101:LYS:O	92:M0:301:OHX:N2	2.47	0.48
52:M6:26:GLN:NE2	56:N0:163:PHE:CE2	3.19	0.48
53:M7:51:VAL:HA	53:M7:56:ARG:O	2.14	0.48
55:M9:60:LYS:HZ3	85:5:1671:C:H5''	170.51	0.48
56:N0:12:ARG:HB3	56:N0:24:LEU:HA	1.95	0.48
56:N0:27:MET:HE2	56:N0:29:ILE:HD11	2.62	0.48
56:N0:33:ASN:HD21	56:N0:36:ILE:HG13	1.79	0.48
57:N1:52:MET:HA	57:N1:95:HIS:CD2	2.75	0.48
58:N2:60:GLY:O	58:N2:61:THR:HG23	4.40	0.48
67:O1:72:ARG:NH1	67:O1:105:GLN:O	2.46	0.48
67:O1:41:LYS:HD2	67:O1:47:ASP:HA	1.95	0.48
69:O3:6:ARG:HG3	69:O3:8:TYR:CE1	2.79	0.48
76:Q0:110:CYS:SG	76:Q0:115:CYS:SG	3.35	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
76:Q0:94:SER:HA	76:Q0:123:PRO:HA	2.14	0.48
3:S1:206:PRO:O	3:S1:207:LEU:HB2	2.12	0.48
2:S0:140:ASN:ND2	4:S2:60:SER:HB2	3.13	0.48
4:S2:72:LEU:HD12	4:S2:72:LEU:O	3.93	0.48
6:S4:4:GLY:HA3	80:6:93:A:O2'	329.56	0.48
7:S5:158:GLN:HG2	30:D8:66:LEU:HD11	2.28	0.48
11:S9:49:LEU:HD22	11:S9:53:ARG:HD3	4.03	0.48
34:SR:86:ASP:O	34:SR:88:THR:HG23	2.14	0.48
36:1:1299:U:H2'	36:1:1300:G:O4'	2.14	0.48
36:1:1467:A:N6	36:1:1470:U:O2	2.46	0.48
36:1:2270:A:H2'	36:1:2271:A:C8	2.49	0.48
36:1:2765:C:O3'	78:Q2:39:GLY:HA3	2.13	0.48
36:1:3094:A:C6	36:1:3095:U:C4	3.01	0.48
92:1:3537:OHX:N5	92:1:3654:OHX:N1	2.62	0.48
36:1:3288:G:C5	92:1:3668:OHX:N3	2.82	0.48
36:1:539:C:H2'	36:1:540:U:C6	2.48	0.48
36:1:976:U:OP1	54:M8:144:ARG:NH2	2.41	0.48
1:2:1335:G:H2'	1:2:1336:U:O4'	2.14	0.48
1:2:1527:U:OP1	20:C8:136:GLN:NE2	2.45	0.48
1:2:1145:C:C2	1:2:1599:G:N2	2.81	0.48
1:2:162:A:H3'	1:2:163:G:N2	2.28	0.48
1:2:169:A:H5''	8:S6:176:GLN:HG2	1.96	0.48
1:2:215:A:OP1	92:2:1985:OHX:N5	2.47	0.48
1:2:473:A:H2'	1:2:474:A:O4'	2.14	0.48
1:2:477:A:OP1	32:E0:31:LYS:N	2.36	0.48
1:2:848:A:C5	1:2:849:G:N7	2.82	0.48
1:2:93:A:H4'	1:2:94:U:OP2	2.13	0.48
37:3:17:A:C6	37:3:18:C:N4	2.81	0.48
37:3:93:C:O2'	37:3:94:C:H5'	2.13	0.48
85:5:1556:C:H2'	85:5:2169:G:N2	2.29	0.48
85:5:3295:A:H2'	85:5:3296:A:C8	2.48	0.48
85:5:835:G:HO2'	85:5:857:G:H22	1.61	0.48
80:6:1110:G:C6	80:6:1136:U:O2	2.66	0.48
80:6:1294:G:N2	80:6:1322:A:C4	2.81	0.48
34:SR:90:ARG:NH2	80:6:1341:A:H4'	455.52	0.48
80:6:868:G:H1	80:6:960:U:H3	1.61	0.48
80:6:879:G:C2	80:6:950:C:C2	3.02	0.48
38:8:1:A:C2	38:8:2:A:C8	3.02	0.48
12:C0:88:UNK:O	12:C0:90:UNK:N	2.46	0.48
14:C2:70:ASN:HA	14:C2:73:LYS:HG2	4.85	0.48
1:2:850:G:P	15:C3:3:ARG:HH11	2.37	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:C4:50:ALA:O	16:C4:52:ARG:HG2	4.60	0.48
17:C5:86:VAL:O	17:C5:89:MET:HG2	2.13	0.48
21:C9:125:SER:OG	21:C9:126:GLU:OE2	2.30	0.48
1:2:1503:U:OP2	21:C9:75:LYS:HE2	2.13	0.48
22:D0:20:ILE:HD13	22:D0:22:ILE:HD13	1.95	0.48
22:D0:70:THR:HB	22:D0:72:ASN:O	5.05	0.48
40:L3:212:ASN:HD22	40:L3:353:GLU:HG2	2.61	0.48
42:L5:119:TYR:CE1	42:L5:134:ALA:HA	3.05	0.48
43:L6:176:PHE:HA	50:M4:114:ASP:HB2	3.12	0.48
46:L9:68:LEU:O	46:L9:69:ARG:C	2.93	0.48
46:L9:90:MET:CE	46:L9:181:VAL:HG22	3.70	0.48
47:M0:50:VAL:HG22	47:M0:167:LEU:HA	1.96	0.48
49:M3:11:LYS:O	49:M3:13:HIS:ND1	2.71	0.48
49:M3:151:ALA:O	49:M3:153:ASP:N	4.21	0.48
49:M3:59:ARG:HA	49:M3:69:VAL:HG23	2.43	0.48
51:M5:150:TRP:CZ2	51:M5:151:ILE:HG12	2.49	0.48
56:N0:96:ASP:OD1	56:N0:97:VAL:N	2.43	0.48
61:N5:72:ALA:HA	61:N5:75:LYS:HG3	2.47	0.48
62:N6:111:LEU:HD23	62:N6:116:LYS:HG2	5.51	0.48
66:O0:40:LYS:HB3	66:O0:101:LEU:CD1	2.40	0.48
70:O4:58:ARG:CG	70:O4:59:PRO:HD2	3.72	0.48
72:O6:51:SER:OG	72:O6:54:GLU:HB2	3.67	0.48
76:Q0:107:ALA:O	76:Q0:121:LEU:HD12	4.05	0.48
76:Q0:96:CYS:SG	76:Q0:115:CYS:SG	3.02	0.48
2:S0:120:LEU:HD12	2:S0:142:PRO:O	2.13	0.48
5:S3:103:GLU:OE1	5:S3:173:ARG:NE	2.44	0.48
5:S3:34:TYR:HE2	5:S3:37:VAL:HG13	2.05	0.48
6:S4:194:THR:OG1	6:S4:211:LYS:O	2.27	0.48
6:S4:220:THR:HB	6:S4:221:ARG:H	1.53	0.48
8:S6:12:SER:OG	8:S6:124:LEU:HA	3.41	0.48
10:S8:183:ILE:O	10:S8:185:GLU:HG3	5.64	0.48
10:S8:36:THR:HA	10:S8:58:LEU:O	5.37	0.48
11:S9:85:VAL:HG12	11:S9:99:LEU:HD11	1.94	0.48
34:SR:217:ASP:OD1	34:SR:217:ASP:N	2.74	0.48
34:SR:225:LEU:O	34:SR:228:LYS:HG3	2.28	0.48
36:1:1103:A:OP2	36:1:1103:A:H4'	2.14	0.48
36:1:1660:C:H2'	36:1:1661:G:C8	2.49	0.48
36:1:199:A:H4'	36:1:200:C:OP1	2.12	0.48
36:1:2186:U:H2'	36:1:2187:G:O4'	2.14	0.48
36:1:288:C:H2'	36:1:289:A:H8	1.78	0.48
92:1:3585:OHX:N5	92:1:3694:OHX:N1	2.62	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
92:1:3565:OHX:N2	92:1:3729:OHX:N4	2.61	0.48
1:2:1028:C:C2	1:2:1057:G:C2	3.00	0.48
1:2:1358:A:H2'	1:2:1359:C:O4'	2.13	0.48
1:2:1466:A:C2	1:2:1590:G:H1'	2.48	0.48
1:2:516:G:OP2	92:2:1949:OHX:N6	2.46	0.48
1:2:1186:A:OP2	92:2:1989:OHX:N5	2.47	0.48
1:2:52:U:H2'	1:2:53:G:H8	1.77	0.48
1:2:734:G:H2'	1:2:735:A:C8	2.49	0.48
1:2:802:G:O6	1:2:836:G:C6	2.67	0.48
37:3:7:G:C2	37:3:115:G:C5	3.02	0.48
85:5:1119:C:H2'	85:5:1120:A:C8	2.48	0.48
85:5:1598:G:H2'	85:5:1599:G:C8	2.47	0.48
85:5:1952:G:H1	85:5:2094:C:H42	1.60	0.48
85:5:2257:C:H2'	85:5:2258:U:H6	1.77	0.48
85:5:2374:C:N4	85:5:2941:A:C4	2.82	0.48
85:5:244:G:H2'	85:5:245:U:H6	1.78	0.48
85:5:2647:A:H2'	85:5:2648:G:O5'	2.13	0.48
64:N8:55:LYS:NZ	85:5:2765:C:OP1	165.98	0.48
85:5:2871:G:C5'	85:5:2872:A:H5'	2.44	0.48
85:5:2999:U:H2'	85:5:3000:A:H8	1.78	0.48
85:5:538:G:C6	85:5:539:C:C4	3.02	0.48
80:6:1111:G:C6	80:6:1112:G:C4	3.02	0.48
80:6:562:G:OP2	92:6:2048:OHX:N1	2.46	0.48
80:6:482:U:H2'	80:6:483:A:C8	2.48	0.48
80:6:780:A:H3'	80:6:781:U:H5'	1.96	0.48
80:6:845:G:O6	92:6:1920:OHX:N1	2.47	0.48
71:O5:83:LYS:HA	38:8:38:U:H5	66.01	0.48
12:C0:11:ILE:HD11	12:C0:42:VAL:HG22	1.96	0.48
13:C1:13:PHE:HE2	13:C1:15:LYS:HB3	1.77	0.48
16:C4:12:GLN:OE1	16:C4:111:ARG:HG3	2.50	0.48
17:C5:75:PRO:HA	17:C5:93:VAL:HB	1.95	0.48
18:C6:40:GLU:HB2	18:C6:45:ARG:HH21	1.78	0.48
1:2:1593:G:P	18:C6:75:VAL:HG21	2.53	0.48
20:C8:99:HIS:O	20:C8:101:LEU:HG	2.13	0.48
20:C8:30:TYR:HE2	20:C8:40:ARG:HH11	1.62	0.48
21:C9:28:LEU:HD13	21:C9:30:VAL:HG22	1.96	0.48
24:D2:22:LYS:O	24:D2:23:ARG:HD3	2.13	0.48
26:D4:11:LYS:NZ	80:6:775:G:O6	414.06	0.48
29:D7:19:HIS:NE2	29:D7:21:LEU:HD12	4.75	0.48
39:L2:2:GLY:HA2	39:L2:207:VAL:HG23	2.49	0.48
40:L3:142:ALA:O	40:L3:143:GLY:C	2.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:37:ARG:HG2	40:L3:187:SER:N	2.19	0.48
41:L4:146:PRO:O	92:L4:401:OHX:N3	2.47	0.48
43:L6:145:LEU:O	43:L6:148:GLU:N	2.42	0.48
44:L7:229:PHE:HD1	44:L7:229:PHE:C	2.94	0.48
45:L8:159:PRO:HB2	45:L8:161:GLU:OE2	3.97	0.48
45:L8:82:LEU:HD22	45:L8:178:ALA:HB1	1.96	0.48
46:L9:171:ASP:C	46:L9:173:ARG:H	2.94	0.48
47:M0:145:LYS:C	47:M0:147:VAL:H	2.38	0.48
47:M0:51:HIS:NE2	47:M0:168:SER:HB3	3.43	0.48
48:M1:133:ARG:HB2	48:M1:152:HIS:NE2	2.29	0.48
49:M3:93:ILE:HD12	49:M3:93:ILE:HG23	1.42	0.48
50:M4:108:ARG:O	50:M4:109:ARG:C	2.53	0.48
50:M4:118:PHE:O	50:M4:121:MET:HB3	2.41	0.48
50:M4:55:ARG:HD3	56:N0:70:THR:HB	1.95	0.48
50:M4:108:ARG:NH2	52:M6:197:LEU:HA	2.29	0.48
55:M9:68:GLN:O	55:M9:72:GLU:HG3	3.27	0.48
56:N0:90:MET:HE2	56:N0:114:HIS:CE1	2.48	0.48
38:4:137:C:P	61:N5:42:ARG:HH12	2.37	0.48
63:N7:85:TYR:HE2	63:N7:129:TRP:CE2	4.29	0.48
63:N7:83:THR:HG23	63:N7:85:TYR:H	2.15	0.48
69:O3:52:VAL:HG21	69:O3:99:ARG:NH1	2.97	0.48
70:O4:41:ARG:O	70:O4:43:LYS:HE3	4.87	0.48
70:O4:4:ARG:HD2	85:5:1485:G:N2	151.22	0.48
36:1:361:A:H4'	73:O7:45:ARG:HH12	1.77	0.48
73:O7:49:TRP:O	73:O7:49:TRP:HE3	3.43	0.48
85:5:2819:A:O2'	98:P:101:8AN:N1	221.51	0.48
77:Q1:23:ARG:O	92:5:3505:OHX:N2	264.17	0.48
79:Q3:14:TYR:HB3	79:Q3:18:TYR:HE1	1.79	0.48
7:S5:113:ILE:HG23	7:S5:191:ALA:HB2	1.94	0.48
7:S5:184:PHE:CE1	7:S5:185:ARG:HG3	2.59	0.48
9:S7:39:ARG:H	9:S7:40:PRO:HD2	1.78	0.48
36:1:1063:G:O2'	36:1:1097:G:N2	2.47	0.48
36:1:1722:U:H2'	36:1:1723:A:O4'	2.14	0.48
36:1:41:G:H4'	36:1:2410:U:H2'	1.96	0.48
36:1:271:C:OP2	92:1:3563:OHX:N5	2.46	0.48
36:1:2898:G:H5''	36:1:2899:C:H5'	1.94	0.48
36:1:342:A:N1	36:1:349:A:O2'	2.30	0.48
1:2:1182:G:H1	31:D9:31:ILE:HG12	1.78	0.48
1:2:1611:U:OP1	28:D6:88:SER:HA	2.14	0.48
1:2:1611:U:H2'	1:2:1612:G:H8	1.77	0.48
1:2:1619:C:H4'	1:2:1620:C:H3'	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:181:A:H2'	1:2:182:A:O4'	2.14	0.48
1:2:992:U:H2'	1:2:993:C:C6	2.48	0.48
37:3:110:G:C6	37:3:111:U:C4	3.01	0.48
38:4:91:C:H2'	38:4:92:A:C8	2.49	0.48
85:5:1013:G:H2'	85:5:1014:U:O4'	2.14	0.48
85:5:1125:U:H3	85:5:1133:A:H2	1.60	0.48
67:O1:64:VAL:HG22	85:5:1456:A:C6	163.80	0.48
85:5:2660:G:H2'	85:5:2661:G:C8	2.48	0.48
85:5:3041:U:H2'	85:5:3042:U:C6	2.49	0.48
85:5:538:G:C5	85:5:539:C:C5	3.02	0.48
85:5:5:G:C6	38:8:155:A:N1	2.81	0.48
85:5:907:G:OP1	85:5:909:G:O2'	2.28	0.48
80:6:1255:G:O2'	80:6:1256:A:O5'	2.32	0.48
80:6:168:A:C6	80:6:169:A:N6	2.82	0.48
10:S8:98:LYS:HB3	80:6:329:G:H5"	273.71	0.48
80:6:745:U:C2	80:6:807:A:C2	3.02	0.48
80:6:761:G:N2	80:6:762:A:N6	2.61	0.48
37:7:52:G:C4	37:7:53:U:C5	3.02	0.48
3:S1:66:VAL:HA	16:C4:34:SER:HA	1.95	0.48
17:C5:22:LEU:HD21	17:C5:109:PRO:HB3	1.95	0.48
19:C7:30:THR:HG22	34:SR:127:ARG:HH22	2.34	0.48
20:C8:117:LYS:HE2	20:C8:128:PHE:HB2	2.58	0.48
20:C8:33:THR:HA	20:C8:38:VAL:HG23	5.51	0.48
20:C8:57:ARG:N	20:C8:60:GLU:OE1	2.33	0.48
23:D1:60:ARG:HG2	23:D1:65:SER:OG	2.95	0.48
23:D1:69:LEU:HD23	23:D1:69:LEU:HA	2.03	0.48
25:D3:141:GLU:OE1	25:D3:144:ARG:NH1	14.06	0.48
22:D0:69:LYS:O	31:D9:44:ARG:NH2	2.74	0.48
40:L3:336:VAL:HG12	40:L3:337:THR:N	2.27	0.48
41:L4:334:PHE:HA	41:L4:339:LEU:HG	1.95	0.48
43:L6:52:VAL:HG13	43:L6:65:ILE:HG23	4.66	0.48
44:L7:173:LEU:O	44:L7:178:ILE:HB	2.51	0.48
49:M3:92:THR:O	49:M3:93:ILE:HD13	2.13	0.48
43:L6:175:LYS:O	50:M4:117:ARG:NH2	2.47	0.48
52:M6:89:SER:O	52:M6:91:LYS:N	2.64	0.48
53:M7:57:ALA:HB2	53:M7:83:TRP:NE1	3.22	0.48
36:1:3205:G:C5	56:N0:171:PHE:CZ	3.01	0.48
56:N0:52:LYS:O	56:N0:53:LYS:C	2.52	0.48
57:N1:38:ASP:N	57:N1:38:ASP:OD1	2.41	0.48
58:N2:42:LYS:HB2	85:5:1687:U:C5	174.66	0.48
62:N6:100:HIS:O	62:N6:103:LYS:N	2.37	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:N6:5:SER:C	62:N6:7:ASP:H	2.97	0.48
66:O0:73:GLY:H	66:O0:76:GLU:HG3	1.79	0.48
66:O0:76:GLU:O	66:O0:79:THR:HB	3.68	0.48
67:O1:19:ARG:HD3	67:O1:35:GLU:HG2	1.96	0.48
70:O4:58:ARG:O	70:O4:61:GLN:N	2.45	0.48
72:O6:95:ALA:O	72:O6:99:ARG:HB2	2.13	0.48
78:Q2:37:ALA:O	78:Q2:40:LYS:N	2.42	0.48
3:S1:137:ILE:HG12	3:S1:172:LEU:HD13	3.84	0.48
3:S1:180:THR:HG22	3:S1:181:LEU:H	1.78	0.48
4:S2:99:LYS:HB2	4:S2:117:THR:HB	2.59	0.48
10:S8:34:ALA:HB2	10:S8:56:ARG:HD3	1.99	0.48
34:SR:95:ALA:O	34:SR:97:GLY:N	4.87	0.48
36:1:1020:G:H5'	36:1:1021:G:OP2	2.14	0.48
36:1:1439:U:H2'	36:1:1440:G:C8	2.49	0.48
36:1:1665:C:H6	36:1:1665:C:O5'	1.97	0.48
36:1:1685:C:C2	36:1:1686:U:C6	3.02	0.48
36:1:1689:U:H2'	36:1:1690:C:C6	2.48	0.48
36:1:1743:G:N3	36:1:1744:G:C8	2.82	0.48
36:1:2181:C:H2'	36:1:2182:A:O4'	2.14	0.48
36:1:2419:A:H2'	36:1:2420:C:C6	2.48	0.48
36:1:2957:G:OP2	92:1:3414:OHX:N1	2.47	0.48
36:1:3043:C:H2'	36:1:3044:G:O4'	2.13	0.48
36:1:3226:A:C2	36:1:3260:G:N1	2.82	0.48
36:1:3272:C:OP2	43:L6:78:ARG:NH1	2.39	0.48
1:2:1365:A:H1'	22:D0:57:ARG:HG2	1.96	0.48
1:2:1466:A:H2'	1:2:1467:G:C8	2.48	0.48
1:2:1776:G:H1'	1:2:1777:A:H2'	1.96	0.48
1:2:674:C:H2'	1:2:675:C:C6	2.49	0.48
1:2:690:A:N6	1:2:713:G:H22	2.12	0.48
1:2:694:U:H1'	1:2:695:G:H5'	1.96	0.48
1:2:964:U:O2'	1:2:965:U:H5'	2.14	0.48
37:3:14:U:H5'	42:L5:24:ARG:NH1	2.28	0.48
65:N9:27:TYR:HA	85:5:1065:A:N1	209.88	0.48
39:L2:187:HIS:NE2	85:5:1794:G:C6	198.50	0.48
85:5:2707:C:H2'	85:5:2708:C:H6	1.79	0.48
85:5:3199:G:O2'	85:5:3200:G:H5'	2.14	0.48
85:5:30:G:N2	85:5:55:G:C4	2.82	0.48
85:5:939:U:C4	85:5:940:G:N7	2.82	0.48
85:5:985:U:H2'	85:5:986:U:C6	2.49	0.48
85:5:986:U:OP2	92:5:3646:OHX:N2	2.47	0.48
80:6:1274:C:H4'	80:6:1275:A:O5'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:1395:G:N1	80:6:1396:U:C2	2.82	0.48
28:D6:79:ILE:HD11	80:6:1795:U:C5'	334.82	0.48
80:6:477:A:C4	80:6:538:A:N6	2.82	0.48
11:S9:146:PHE:HZ	80:6:765:G:C2	429.15	0.48
80:6:978:A:H2'	80:6:979:A:O4'	2.13	0.48
17:C5:16:SER:HA	17:C5:20:VAL:O	2.14	0.48
17:C5:65:LEU:C	17:C5:67:ALA:H	2.16	0.48
20:C8:100:THR:HG21	20:C8:108:LYS:HG2	1.96	0.48
21:C9:31:PRO:HB3	21:C9:103:LYS:HD3	2.03	0.48
24:D2:105:THR:HG23	24:D2:126:LEU:HD11	1.95	0.48
25:D3:90:ASP:O	25:D3:136:TRP:NE1	2.40	0.48
27:D5:102:THR:HG22	27:D5:103:ARG:H	4.03	0.48
27:D5:61:SER:HA	27:D5:80:LEU:HD11	1.96	0.48
36:1:2163:C:H4'	39:L2:7:ASN:O	2.13	0.48
41:L4:107:ARG:HG2	41:L4:108:LYS:N	2.46	0.48
41:L4:180:LYS:HB3	41:L4:180:LYS:HE2	3.70	0.48
41:L4:182:LEU:O	41:L4:184:SER:N	2.47	0.48
44:L7:217:PRO:O	92:5:3506:OHX:N6	258.98	0.48
46:L9:141:LYS:HE2	46:L9:142:ASP:OD1	2.13	0.48
47:M0:85:PHE:CA	47:M0:140:THR:HG22	2.68	0.48
47:M0:49:CYS:HB3	47:M0:168:SER:HG	3.21	0.48
50:M4:94:TRP:CZ2	50:M4:100:ALA:HB2	2.49	0.48
50:M4:17:VAL:HG11	50:M4:74:ARG:HA	2.09	0.48
50:M4:17:VAL:HG21	50:M4:74:ARG:HB2	1.95	0.48
52:M6:142:SER:O	52:M6:145:VAL:HG22	2.84	0.48
52:M6:67:THR:HG23	52:M6:67:THR:O	2.82	0.48
55:M9:98:ARG:NH1	55:M9:130:ASN:OD1	5.66	0.48
55:M9:11:ALA:O	55:M9:15:VAL:HG23	2.21	0.48
52:M6:127:LEU:HD21	56:N0:168:PRO:HB2	2.79	0.48
56:N0:36:ILE:O	56:N0:40:ARG:HG2	2.78	0.48
56:N0:42:TRP:CD1	56:N0:53:LYS:HB2	2.48	0.48
57:N1:34:TYR:CE1	57:N1:98:HIS:CE1	4.18	0.48
58:N2:15:PHE:O	58:N2:65:VAL:N	2.77	0.48
62:N6:57:LEU:O	62:N6:105:VAL:HG12	2.18	0.48
67:O1:88:PRO:HG2	67:O1:89:LEU:CD1	2.44	0.48
71:O5:102:GLU:HG3	71:O5:106:LYS:HE3	4.31	0.48
78:Q2:12:CYS:SG	78:Q2:17:CYS:HB3	2.73	0.48
2:S0:69:ASN:HB3	2:S0:71:GLU:OE1	2.14	0.48
3:S1:184:LEU:O	3:S1:188:LEU:HG	2.48	0.48
6:S4:248:ILE:CA	6:S4:251:GLU:HB2	3.90	0.48
8:S6:7:TYR:HE1	8:S6:125:THR:HA	3.23	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S8:4:SER:HB3	10:S8:6:ASP:OD2	4.52	0.48
1:2:472:U:P	11:S9:10:LYS:HA	2.53	0.48
36:1:1014:U:H2'	36:1:1015:U:H5''	1.96	0.48
36:1:1079:A:H4'	42:L5:141:PRO:O	2.14	0.48
36:1:1489:A:N1	36:1:1854:C:N4	2.62	0.48
36:1:1940:G:H2'	36:1:1941:C:O4'	2.14	0.48
36:1:1949:G:OP2	55:M9:135:LYS:HE2	2.14	0.48
36:1:2746:A:H2'	36:1:2747:A:O4'	2.14	0.48
36:1:2945:G:O2'	36:1:2948:C:OP2	2.32	0.48
36:1:2999:U:O2'	36:1:3296:A:H5'	2.13	0.48
36:1:437:G:O2'	36:1:438:A:H5'	2.13	0.48
36:1:571:U:O2'	36:1:572:A:H5'	2.14	0.48
1:2:955:G:O2'	36:1:847:A:N1	2.39	0.48
1:2:186:C:H42	1:2:199:G:H1	1.61	0.48
1:2:454:U:H2'	1:2:455:C:C5	2.49	0.48
85:5:1764:U:C4	85:5:1765:U:C6	3.02	0.48
85:5:2400:G:H5'	85:5:2401:A:OP2	2.14	0.48
85:5:2651:G:N3	85:5:2796:G:C6	2.82	0.48
10:S8:107:THR:HG22	85:5:3354:U:H5	241.45	0.48
85:5:353:G:O2'	85:5:354:U:P	2.72	0.48
92:5:3555:OHX:N4	92:5:3740:OHX:N6	2.62	0.48
85:5:572:A:C5	85:5:573:C:C5	3.02	0.48
85:5:703:G:C6	85:5:704:U:C4	3.02	0.48
85:5:812:G:C5	85:5:813:G:C8	3.02	0.48
18:C6:30:LYS:HD3	80:6:1366:U:OP1	423.63	0.48
26:D4:64:PHE:HA	80:6:531:C:O3'	423.87	0.48
1:2:324:U:OP1	13:C1:133:LYS:NZ	2.47	0.48
14:C2:73:LYS:HZ2	33:E1:108:VAL:HB	1.77	0.48
17:C5:80:MET:SD	17:C5:83:MET:HE2	2.53	0.48
19:C7:84:TYR:O	19:C7:85:VAL:HG13	2.13	0.48
21:C9:86:ARG:HG3	21:C9:90:PRO:O	3.27	0.48
25:D3:111:GLY:O	25:D3:121:ARG:NH1	8.57	0.48
26:D4:124:ARG:HA	26:D4:127:LYS:HG2	1.96	0.48
26:D4:8:ARG:CZ	26:D4:28:LEU:HD11	3.17	0.48
39:L2:230:VAL:O	39:L2:233:GLN:HB2	2.14	0.48
39:L2:36:GLU:HG2	39:L2:90:ALA:O	2.14	0.48
40:L3:113:GLU:HB3	40:L3:176:ALA:HB2	1.95	0.48
36:1:3313:U:H4'	40:L3:173:GLN:OE1	2.14	0.48
40:L3:315:GLY:HA2	85:5:3379:C:H4'	213.29	0.48
43:L6:76:LEU:HD13	43:L6:101:PHE:HE1	3.13	0.48
45:L8:132:VAL:HG23	45:L8:199:ALA:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:L9:180:TYR:CD2	46:L9:180:TYR:N	2.82	0.48
36:1:1125:U:H5''	47:M0:15:LYS:NZ	2.28	0.48
47:M0:188:GLY:O	47:M0:190:VAL:N	2.47	0.48
51:M5:114:ARG:HG2	51:M5:137:PRO:HG3	2.31	0.48
51:M5:89:VAL:C	51:M5:92:LEU:HD13	3.39	0.48
52:M6:106:GLU:H	52:M6:106:GLU:HG2	1.90	0.48
56:N0:45:LEU:HD12	56:N0:51:VAL:HG21	1.94	0.48
59:N3:89:ASP:OD1	59:N3:91:VAL:HG12	4.55	0.48
63:N7:46:ILE:HG12	63:N7:49:TYR:CZ	3.65	0.48
64:N8:56:VAL:HG22	64:N8:57:GLY:H	1.77	0.48
64:N8:77:LYS:O	64:N8:79:TRP:N	2.69	0.48
66:O0:27:TYR:HD1	66:O0:52:ARG:HD3	1.75	0.48
69:O3:73:ARG:HG3	69:O3:82:ARG:HG3	1.96	0.48
71:O5:77:PRO:O	71:O5:81:ARG:HD3	4.46	0.48
72:O6:74:LYS:HD3	72:O6:80:PHE:HD2	3.61	0.48
75:O9:24:PRO:HD2	75:O9:27:ILE:HD12	2.47	0.48
2:S0:134:LYS:HG2	2:S0:138:TYR:HE2	1.78	0.48
3:S1:28:GLU:O	3:S1:29:TRP:CD1	4.46	0.48
2:S0:110:TYR:HE2	4:S2:64:LYS:HB3	1.79	0.48
5:S3:99:VAL:HG13	5:S3:173:ARG:NH2	2.83	0.48
7:S5:144:GLU:HG3	7:S5:221:ALA:HB3	2.86	0.48
9:S7:104:ARG:O	9:S7:107:ARG:NH2	10.96	0.48
9:S7:105:THR:O	9:S7:107:ARG:N	4.35	0.48
9:S7:39:ARG:HG3	9:S7:40:PRO:HD3	1.96	0.48
11:S9:151:ASP:O	11:S9:154:LYS:NZ	3.69	0.48
36:1:1029:G:H2'	36:1:1030:A:C8	2.49	0.47
36:1:1134:G:C2	36:1:1135:A:N7	2.82	0.47
36:1:1144:U:OP1	36:1:1367:G:O2'	2.29	0.47
36:1:1438:U:C2	36:1:1439:U:C5	3.01	0.47
36:1:1481:A:H2'	36:1:1481:A:N3	2.29	0.47
36:1:1838:G:H4'	36:1:1839:A:N3	2.29	0.47
36:1:1841:A:C2	36:1:1848:G:C5	3.01	0.47
36:1:1895:A:C6	36:1:2335:G:C8	3.01	0.47
36:1:201:A:H2'	36:1:202:G:C8	2.49	0.47
36:1:2438:A:H2'	36:1:2439:A:C8	2.49	0.47
36:1:161:G:C2	36:1:261:U:O2	2.67	0.47
36:1:3105:U:C2	36:1:3129:A:C6	3.02	0.47
36:1:1674:G:OP2	92:1:3484:OHX:N2	2.46	0.47
92:1:3585:OHX:N5	92:1:3694:OHX:N3	2.62	0.47
36:1:613:G:C6	36:1:614:C:C4	3.02	0.47
36:1:645:A:H1'	36:1:647:A:OP2	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:75:G:OP1	49:M3:58:VAL:HG22	2.14	0.47
1:2:1102:G:H1	1:2:1111:C:H42	1.62	0.47
1:2:1385:G:H2'	1:2:1386:C:C6	2.49	0.47
1:2:1470:A:H2'	1:2:1471:G:C8	2.46	0.47
1:2:392:G:OP2	10:S8:24:LYS:HD2	2.14	0.47
37:3:113:C:H2'	37:3:114:U:O4'	2.14	0.47
37:3:16:U:C2'	37:3:17:A:H5'	2.44	0.47
37:3:6:C:O3'	42:L5:50:ARG:NH2	2.44	0.47
85:5:1008:U:C2	85:5:1043:C:C2	3.02	0.47
85:5:1440:G:C4	85:5:1441:G:C8	3.02	0.47
85:5:159:A:C2	85:5:263:C:O2	2.67	0.47
85:5:1632:A:H2'	85:5:1633:C:C6	2.49	0.47
85:5:2523:A:O2'	85:5:2587:U:H1'	2.14	0.47
85:5:2700:G:N7	92:5:3435:OHX:N3	2.62	0.47
85:5:2716:U:O4	85:5:2752:U:N3	2.47	0.47
85:5:2762:A:H1'	85:5:2800:G:O6	2.14	0.47
85:5:3096:C:H2'	85:5:3097:C:H6	1.79	0.47
85:5:3191:G:C6	85:5:3192:U:N3	2.82	0.47
85:5:502:U:C4	85:5:503:C:C5	3.02	0.47
85:5:636:C:O2	85:5:2377:G:O2'	2.30	0.47
85:5:686:G:H2'	85:5:687:U:O4'	2.14	0.47
85:5:759:U:O4	85:5:760:G:C6	2.67	0.47
80:6:1312:A:OP1	80:6:1312:A:H8	1.97	0.47
80:6:1442:U:C4	80:6:1443:U:C4	3.02	0.47
80:6:168:A:C6	80:6:169:A:C6	3.01	0.47
80:6:189:C:O5'	80:6:189:C:H6	1.97	0.47
80:6:213:A:C2	80:6:253:A:C2	3.02	0.47
80:6:234:G:H2'	80:6:235:G:O4'	2.14	0.47
80:6:45:U:O2	80:6:434:G:H1'	2.14	0.47
80:6:860:U:H2'	80:6:861:U:O4'	2.14	0.47
21:C9:14:PHE:HD2	21:C9:15:ILE:HG13	1.79	0.47
26:D4:37:LYS:O	26:D4:40:LEU:N	2.47	0.47
26:D4:57:VAL:HG22	26:D4:72:PHE:O	2.13	0.47
30:D8:38:ARG:NH1	30:D8:60:GLU:OE2	2.30	0.47
33:E1:127:GLY:O	33:E1:129:GLY:N	2.48	0.47
39:L2:242:ARG:HH12	39:L2:246:LEU:HD12	6.72	0.47
40:L3:335:ILE:HG13	40:L3:335:ILE:O	2.15	0.47
40:L3:361:THR:HG22	40:L3:371:GLN:HB3	1.95	0.47
44:L7:211:SER:N	44:L7:242:SER:HB2	2.15	0.47
46:L9:105:GLU:O	46:L9:105:GLU:HG3	4.21	0.47
51:M5:18:VAL:HG13	51:M5:19:LEU:H	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:M5:56:LYS:O	51:M5:57:GLN:C	2.52	0.47
52:M6:12:LYS:HD3	52:M6:37:ARG:NH2	2.30	0.47
52:M6:166:GLU:O	52:M6:169:ALA:N	2.47	0.47
55:M9:32:ILE:C	55:M9:34:GLN:N	3.18	0.47
56:N0:155:ARG:HD3	56:N0:172:TYR:CG	2.55	0.47
63:N7:66:THR:O	63:N7:68:ILE:HG13	2.66	0.47
66:O0:43:ILE:HD11	66:O0:92:ILE:HD11	2.51	0.47
68:O2:100:ILE:HG22	68:O2:105:ARG:HG2	3.39	0.47
51:M5:15:GLN:HB3	72:O6:52:PRO:HD2	1.96	0.47
74:O8:11:PHE:CZ	74:O8:43:PHE:HB3	2.49	0.47
2:S0:30:GLN:HB3	2:S0:149:LEU:O	4.92	0.47
2:S0:81:PHE:HB3	2:S0:170:ILE:HD12	3.71	0.47
3:S1:101:HIS:C	3:S1:217:LEU:HD13	2.34	0.47
4:S2:53:ILE:HG23	4:S2:56:ILE:HD12	1.96	0.47
5:S3:62:ASN:O	5:S3:62:ASN:ND2	4.47	0.47
6:S4:246:LEU:HB2	6:S4:251:GLU:CG	2.44	0.47
6:S4:71:LYS:HG3	6:S4:91:THR:HB	1.95	0.47
8:S6:77:LEU:HA	8:S6:77:LEU:HD23	2.20	0.47
10:S8:105:ASP:O	10:S8:106:ALA:HB3	2.13	0.47
11:S9:45:ILE:HG21	11:S9:105:LEU:HD12	1.95	0.47
34:SR:216:LYS:HA	34:SR:239:GLU:HG3	1.98	0.47
36:1:1617:G:O2'	36:1:1618:G:H5'	2.13	0.47
36:1:18:G:N2	38:4:142:C:C2	2.82	0.47
36:1:2398:A:O5'	36:1:2398:A:H8	1.97	0.47
36:1:2893:C:H2'	36:1:2894:C:O4'	2.14	0.47
36:1:2941:A:N7	40:L3:255:TRP:CE2	2.83	0.47
36:1:3001:C:H2'	36:1:3002:C:H6	1.79	0.47
36:1:3279:A:C6	69:O3:54:ARG:NE	2.82	0.47
36:1:824:C:H2'	36:1:825:U:C6	2.41	0.47
1:2:1295:A:C2	1:2:1397:U:C5	3.02	0.47
1:2:1612:G:C5	1:2:1613:U:C4	3.01	0.47
1:2:975:A:O2'	1:2:1768:U:O2	2.32	0.47
1:2:196:G:O2'	1:2:197:A:OP2	2.30	0.47
1:2:494:U:O2'	1:2:495:C:O5'	2.30	0.47
1:2:616:G:N2	1:2:622:A:C8	2.82	0.47
1:2:763:A:C8	26:D4:8:ARG:HB3	2.49	0.47
1:2:823:U:O2'	1:2:824:U:H5''	2.14	0.47
37:3:93:C:H2'	37:3:94:C:H6	1.78	0.47
85:5:1811:G:C6	85:5:1812:G:N7	2.82	0.47
85:5:2897:A:H2'	85:5:2899:C:H5''	1.95	0.47
85:5:2956:A:H62	85:5:2977:G:N2	2.11	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:3323:A:N6	85:5:3324:C:C4	2.82	0.47
85:5:400:G:H4'	85:5:401:U:O5'	2.15	0.47
80:6:1208:A:N1	80:6:1455:G:N2	2.62	0.47
92:6:1914:OHX:N2	92:6:1998:OHX:N4	2.62	0.47
80:6:210:A:H2'	80:6:211:U:C6	2.50	0.47
80:6:219:A:N6	80:6:843:U:C2	2.82	0.47
80:6:281:G:C6	80:6:282:C:C4	3.01	0.47
80:6:58:U:O2'	80:6:451:A:N3	2.43	0.47
80:6:555:A:H2'	80:6:556:A:C8	2.49	0.47
80:6:813:U:O2	80:6:813:U:H2'	2.14	0.47
37:7:59:U:OP2	92:7:202:OHX:N6	2.47	0.47
25:D3:3:LYS:O	25:D3:5:LYS:N	3.26	0.47
30:D8:42:ARG:NH2	30:D8:56:LEU:HB3	4.60	0.47
39:L2:173:GLY:O	79:Q3:69:TYR:HE2	1.97	0.47
40:L3:4:ARG:HD3	40:L3:7:GLU:HA	1.95	0.47
42:L5:110:LEU:HD13	42:L5:171:LEU:HD23	3.07	0.47
47:M0:58:GLU:OE1	47:M0:160:PRO:O	2.32	0.47
48:M1:7:ASN:OD1	48:M1:10:ARG:HD2	2.14	0.47
50:M4:105:GLN:NE2	52:M6:198:GLY:O	3.48	0.47
52:M6:148:LYS:HB2	52:M6:149:TYR:CE2	2.49	0.47
54:M8:176:ARG:HG2	54:M8:177:GLY:N	3.03	0.47
55:M9:115:ILE:HD11	55:M9:120:TYR:HB2	4.02	0.47
59:N3:101:VAL:HG23	59:N3:101:VAL:O	2.39	0.47
61:N5:137:ASN:HB3	61:N5:142:ILE:HG12	1.95	0.47
64:N8:90:TYR:HA	64:N8:93:SER:HB3	3.42	0.47
69:O3:51:TYR:HB2	69:O3:98:VAL:HG23	2.90	0.47
70:O4:39:ALA:HB2	70:O4:58:ARG:HD3	1.97	0.47
70:O4:5:VAL:CG2	70:O4:32:ALA:HB2	2.44	0.47
71:O5:118:ILE:O	71:O5:119:LYS:HB2	2.22	0.47
72:O6:15:LYS:HD2	72:O6:15:LYS:HA	2.41	0.47
3:S1:89:ASP:HB3	3:S1:223:PHE:CE2	2.49	0.47
4:S2:227:PRO:HA	4:S2:230:TRP:CE2	2.49	0.47
2:S0:115:PHE:CE1	4:S2:39:THR:HG22	3.34	0.47
6:S4:187:ARG:HH11	6:S4:245:LYS:HZ2	1.61	0.47
6:S4:42:LEU:HD23	6:S4:46:VAL:HB	1.96	0.47
8:S6:2:LYS:HB3	8:S6:108:VAL:HG22	1.95	0.47
9:S7:46:ILE:HG23	9:S7:59:ALA:C	4.82	0.47
10:S8:48:THR:OG1	10:S8:52:ASN:HB2	4.39	0.47
11:S9:159:ALA:O	11:S9:165:GLY:HA3	2.59	0.47
36:1:1350:A:O2'	36:1:1351:U:H5'	2.14	0.47
36:1:1509:A:H8	36:1:1509:A:O5'	1.98	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1569:U:H5'	36:1:1570:U:O5'	2.14	0.47
36:1:1729:A:N6	79:Q3:42:CYS:HA	2.30	0.47
36:1:1757:A:H2'	36:1:1758:G:H8	1.79	0.47
36:1:1778:G:C2	36:1:1780:G:N7	2.83	0.47
36:1:2180:G:H2'	36:1:2181:C:C6	2.49	0.47
36:1:249:U:H1'	36:1:250:U:C2	2.49	0.47
36:1:2594:C:H6	36:1:2594:C:O5'	1.97	0.47
36:1:3314:A:N1	36:1:3315:G:C6	2.82	0.47
97:1:3403:SPS:C8	98:P:101:8AN:C5'	2.70	0.47
36:1:35:A:O2'	36:1:36:C:H5'	2.15	0.47
36:1:993:G:C5	36:1:2637:A:C2	3.02	0.47
1:2:1042:U:O2'	1:2:1043:U:N3	2.47	0.47
1:2:1130:A:O2'	1:2:1618:A:H2'	2.14	0.47
1:2:1248:G:N2	1:2:1249:U:H1'	2.28	0.47
1:2:1374:A:H2'	1:2:1375:U:H6	1.79	0.47
1:2:145:A:O2'	1:2:146:U:O5'	2.25	0.47
1:2:1487:G:C6	1:2:1488:A:C6	3.02	0.47
1:2:201:G:C2	1:2:202:A:C4	3.02	0.47
85:5:1011:A:C2	85:5:1040:A:C2	3.02	0.47
85:5:1103:A:H3'	85:5:1104:G:C5'	2.44	0.47
85:5:204:A:C6	85:5:205:C:C4	3.01	0.47
85:5:189:G:C6	85:5:206:G:C6	3.02	0.47
85:5:2404:A:C2	95:5:3401:PHE:CZ	3.02	0.47
45:L8:241:LYS:HB2	85:5:2586:G:C5	184.21	0.47
85:5:2674:A:C2	85:5:2675:C:C2	3.02	0.47
85:5:3331:U:H2'	85:5:3332:U:C6	2.49	0.47
85:5:425:G:C2	85:5:426:G:C8	3.02	0.47
85:5:359:U:C2	85:5:920:A:C6	3.02	0.47
80:6:1176:G:C6	80:6:1464:G:C6	3.02	0.47
26:D4:124:ARG:NH2	80:6:151:G:O6	318.58	0.47
80:6:1673:G:H2'	80:6:1674:C:H6	1.79	0.47
80:6:196:G:O2'	80:6:197:A:O4'	2.32	0.47
80:6:273:G:H2'	80:6:274:G:O4'	2.13	0.47
80:6:319:U:H1'	80:6:323:A:C4	2.49	0.47
80:6:66:U:H1'	80:6:67:A:OP1	2.13	0.47
80:6:702:G:N7	92:6:1953:OHX:N4	2.62	0.47
29:D7:50:ALA:C	29:D7:52:THR:H	2.18	0.47
29:D7:73:LEU:HD12	29:D7:73:LEU:H	2.06	0.47
30:D8:17:GLY:N	30:D8:27:GLN:HE21	6.71	0.47
31:D9:39:CYS:O	31:D9:43:PHE:N	2.58	0.47
33:E1:108:VAL:HG22	33:E1:114:VAL:HG22	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:L2:129:ALA:O	39:L2:131:GLY:N	2.48	0.47
42:L5:110:LEU:O	42:L5:116:ASP:HB3	4.27	0.47
42:L5:196:ARG:O	42:L5:197:SER:C	2.94	0.47
44:L7:92:ILE:HD12	44:L7:92:ILE:HA	1.58	0.47
46:L9:101:VAL:HG12	46:L9:136:PHE:CE1	2.50	0.47
46:L9:105:GLU:OE2	46:L9:108:GLY:HA2	2.13	0.47
46:L9:65:VAL:O	46:L9:66:ALA:C	2.53	0.47
48:M1:155:THR:O	48:M1:159:THR:HG23	5.23	0.47
49:M3:107:GLU:H	49:M3:107:GLU:HG2	1.38	0.47
58:N2:82:LYS:O	58:N2:85:LYS:N	2.86	0.47
62:N6:60:ARG:HG3	62:N6:103:LYS:HD2	1.96	0.47
64:N8:116:GLY:O	64:N8:117:ARG:HB2	2.14	0.47
64:N8:119:PRO:O	64:N8:121:VAL:N	2.44	0.47
68:O2:31:ASN:N	68:O2:31:ASN:OD1	2.60	0.47
78:Q2:5:PRO:HB2	78:Q2:7:THR:O	2.14	0.47
2:S0:20:ALA:O	2:S0:21:ASN:HB2	2.14	0.47
3:S1:120:LEU:HD21	3:S1:140:ILE:HD11	2.62	0.47
3:S1:72:ASP:OD2	28:D6:59:TYR:OH	2.45	0.47
4:S2:164:SER:OG	4:S2:165:VAL:N	3.42	0.47
2:S0:115:PHE:HE1	4:S2:39:THR:HG22	2.81	0.47
6:S4:210:ILE:HG21	6:S4:218:PHE:CZ	2.85	0.47
6:S4:88:ASP:HA	6:S4:122:LYS:NZ	2.28	0.47
6:S4:73:ASP:HA	6:S4:89:VAL:HB	1.95	0.47
9:S7:148:LYS:NZ	80:6:640:U:O2'	382.89	0.47
9:S7:15:GLU:O	9:S7:19:GLN:HG3	2.23	0.47
10:S8:44:HIS:O	10:S8:56:ARG:N	2.79	0.47
36:1:1103:A:C1'	36:1:1104:G:OP1	2.61	0.47
36:1:1352:A:H1'	36:1:1353:U:O5'	2.14	0.47
36:1:1565:G:H1'	36:1:1575:A:C2	2.49	0.47
36:1:2184:U:C2	36:1:2185:G:C8	3.02	0.47
36:1:2213:A:H2'	36:1:2214:A:C8	2.49	0.47
36:1:2294:U:O2	36:1:2296:A:H8	1.96	0.47
36:1:2536:A:H2'	36:1:2537:U:C5	2.50	0.47
36:1:2767:U:H2'	36:1:2768:U:H6	1.78	0.47
36:1:3308:C:N3	53:M7:69:ARG:NH1	2.63	0.47
36:1:503:C:N4	36:1:611:A:N6	2.62	0.47
36:1:638:C:H2'	36:1:639:G:H8	1.78	0.47
1:2:361:C:H2'	1:2:362:G:H8	1.77	0.47
1:2:364:G:N1	1:2:381:C:C4	2.81	0.47
1:2:460:A:N3	1:2:460:A:H2'	2.29	0.47
1:2:751:C:H1'	11:S9:143:ILE:HG21	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:852:A:C2	1:2:943:U:C2	3.02	0.47
1:2:859:G:C6	1:2:919:G:C6	3.03	0.47
1:2:955:G:O6	1:2:956:A:N6	2.47	0.47
85:5:643:U:O2'	85:5:1153:A:N1	2.32	0.47
85:5:1616:U:H2'	85:5:1617:G:C8	2.49	0.47
85:5:2568:C:N4	85:5:2574:G:C6	2.82	0.47
85:5:2861:U:C4	85:5:2862:U:C4	3.02	0.47
85:5:3245:A:H2	85:5:3246:G:C2	2.33	0.47
92:5:3524:OHX:N4	92:5:3721:OHX:N1	2.63	0.47
85:5:645:A:C5	85:5:649:A:C5	3.02	0.47
85:5:747:A:H2'	85:5:748:U:O4'	2.14	0.47
33:E1:118:ARG:NE	80:6:1252:C:OP1	449.32	0.47
80:6:1540:G:C6	80:6:1541:G:C4	3.03	0.47
18:C6:127:LYS:NZ	80:6:1605:G:N7	388.31	0.47
80:6:1620:C:O2'	80:6:1621:U:OP1	2.31	0.47
80:6:188:A:N7	80:6:189:C:C2	2.82	0.47
80:6:213:A:C4	80:6:253:A:C2	3.02	0.47
80:6:629:U:H2'	80:6:630:A:H8	1.80	0.47
80:6:653:C:N4	80:6:677:G:H1	2.13	0.47
80:6:89:G:C5	80:6:90:C:C5	3.02	0.47
38:8:44:A:H2'	38:8:45:C:H6	1.77	0.47
38:8:46:G:C2	38:8:58:G:C2	3.02	0.47
16:C4:112:ILE:HG22	16:C4:113:GLY:N	2.99	0.47
19:C7:17:ILE:HG13	19:C7:54:THR:HG22	1.96	0.47
21:C9:13:ASP:OD2	21:C9:13:ASP:N	2.31	0.47
21:C9:35:ASP:OD2	21:C9:36:ILE:HG23	3.37	0.47
21:C9:23:GLN:HG2	21:C9:55:TYR:CZ	2.49	0.47
26:D4:110:GLN:HB3	26:D4:114:ARG:NH1	2.50	0.47
33:E1:133:ALA:O	33:E1:139:LEU:HA	2.15	0.47
40:L3:28:ARG:HH21	40:L3:30:LYS:HE2	1.79	0.47
40:L3:33:PRO:O	40:L3:34:LYS:C	2.92	0.47
41:L4:98:ARG:HG2	41:L4:99:MET:N	2.30	0.47
42:L5:33:ARG:NH2	37:7:7:G:O3'	270.31	0.47
44:L7:125:GLU:OE2	44:L7:128:LYS:NZ	2.47	0.47
44:L7:157:ASN:O	44:L7:159:GLN:HG3	3.80	0.47
44:L7:56:GLU:C	44:L7:58:ALA:N	2.67	0.47
48:M1:12:LEU:HD12	48:M1:162:TRP:CD1	4.56	0.47
51:M5:176:LYS:HE2	85:5:66:A:N3	96.30	0.47
51:M5:35:VAL:HG13	51:M5:65:ARG:HB3	1.96	0.47
51:M5:98:LEU:HD13	85:5:290:G:H5''	138.30	0.47
52:M6:109:PRO:O	52:M6:110:PRO:C	2.75	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:M7:139:TYR:CE1	85:5:2355:G:H5'	142.64	0.47
53:M7:26:PHE:CG	53:M7:121:GLN:HG2	3.26	0.47
54:M8:44:PHE:CE1	54:M8:137:THR:HG21	2.50	0.47
36:1:1874:A:N7	55:M9:20:ARG:NH1	2.63	0.47
63:N7:39:GLY:O	63:N7:77:TYR:N	2.73	0.47
64:N8:71:PRO:HB2	64:N8:109:TYR:HD2	1.79	0.47
66:O0:81:VAL:O	66:O0:83:LYS:HD2	2.14	0.47
66:O0:99:ASP:N	66:O0:99:ASP:OD2	2.86	0.47
67:O1:62:ARG:NH2	67:O1:68:GLU:OE2	3.71	0.47
68:O2:101:SER:O	68:O2:102:ALA:C	2.98	0.47
71:O5:13:SER:OG	71:O5:16:GLN:N	2.48	0.47
71:O5:86:ARG:HA	71:O5:89:ARG:NH2	2.30	0.47
77:Q1:15:ARG:NH1	80:6:1126:G:OP1	281.12	0.47
78:Q2:61:LYS:HZ3	78:Q2:61:LYS:HB3	1.76	0.47
79:Q3:17:ARG:C	79:Q3:19:GLY:H	2.37	0.47
2:S0:175:TYR:OH	2:S0:197:ILE:O	2.61	0.47
2:S0:9:LEU:HD13	2:S0:11:PRO:N	3.89	0.47
3:S1:144:ARG:HB3	3:S1:208:GLN:CB	2.52	0.47
3:S1:205:PHE:CD1	3:S1:206:PRO:HD2	3.00	0.47
4:S2:146:THR:HG23	4:S2:148:LEU:HB2	1.97	0.47
4:S2:37:PRO:HG2	4:S2:43:ARG:HG2	1.97	0.47
6:S4:123:LEU:HA	6:S4:160:VAL:O	2.14	0.47
6:S4:94:ALA:C	6:S4:96:ASN:H	2.18	0.47
7:S5:100:ASN:O	7:S5:102:ARG:N	2.55	0.47
7:S5:43:PHE:CG	7:S5:44:ASN:N	3.02	0.47
6:S4:149:TYR:HB3	8:S6:208:TYR:CD2	2.49	0.47
9:S7:143:LEU:HD21	9:S7:149:ILE:HD12	2.69	0.47
36:1:1355:A:H4'	36:1:1356:U:H5''	1.97	0.47
36:1:1714:A:N1	36:1:1728:G:C2	2.83	0.47
36:1:1658:G:C5	36:1:1796:G:C6	3.02	0.47
36:1:198:A:C2	36:1:219:A:C4	3.03	0.47
36:1:274:G:H2'	36:1:275:U:O4'	2.14	0.47
36:1:3065:G:C6	36:1:3066:U:C4	3.02	0.47
36:1:3249:C:C4	36:1:3250:U:C4	3.02	0.47
36:1:715:A:H4'	36:1:716:A:OP1	2.15	0.47
1:2:1094:G:C6	1:2:1095:G:C4	3.02	0.47
1:2:1517:G:OP2	27:D5:74:SER:OG	2.27	0.47
1:2:249:U:H3'	1:2:250:C:H5'	1.97	0.47
1:2:969:G:H2'	1:2:970:G:O4'	2.15	0.47
37:3:71:G:C4	37:3:72:A:N7	2.82	0.47
38:4:120:C:H2'	38:4:121:U:C6	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:1036:A:H2'	85:5:1037:C:O4'	2.15	0.47
85:5:1250:G:H2'	85:5:1251:A:H8	1.79	0.47
85:5:1686:U:O2	85:5:1688:U:H1'	2.13	0.47
85:5:2183:A:N6	85:5:2184:U:O4	2.48	0.47
85:5:2380:U:C2	85:5:2381:G:C8	3.02	0.47
85:5:2656:A:C4	85:5:2658:G:N7	2.83	0.47
85:5:652:G:H8	85:5:652:G:O5'	1.98	0.47
68:O2:27:ARG:HD3	85:5:655:C:P	161.07	0.47
80:6:1354:G:H5'	80:6:1355:C:OP2	2.14	0.47
80:6:1624:C:H2'	80:6:1625:C:C6	2.49	0.47
80:6:1711:C:H2'	80:6:1712:A:H5''	1.96	0.47
80:6:381:C:H2'	80:6:382:C:C6	2.50	0.47
80:6:6:G:C2	80:6:7:G:C5	3.03	0.47
80:6:985:G:C2	80:6:986:G:H1'	2.49	0.47
37:7:36:C:H2'	37:7:37:G:C8	2.49	0.47
12:C0:8:ARG:HD2	12:C0:12:HIS:CE1	2.49	0.47
16:C4:86:THR:HG21	16:C4:90:ARG:NH2	2.27	0.47
18:C6:87:LYS:HG2	18:C6:117:LEU:HA	1.97	0.47
19:C7:23:LYS:O	19:C7:24:LEU:HB2	2.14	0.47
20:C8:63:GLN:HA	20:C8:66:LEU:HD12	1.95	0.47
21:C9:126:GLU:O	21:C9:130:ARG:HB2	2.15	0.47
25:D3:96:VAL:HG23	25:D3:97:ASP:N	2.27	0.47
27:D5:70:LYS:HG3	27:D5:71:ILE:H	1.78	0.47
41:L4:338:LYS:O	41:L4:339:LEU:CB	3.74	0.47
41:L4:355:PHE:CE2	44:L7:70:LYS:HD3	2.49	0.47
41:L4:44:LYS:O	41:L4:47:ARG:HD3	2.46	0.47
41:L4:3:ARG:O	41:L4:5:GLN:HG2	2.72	0.47
41:L4:61:SER:OG	41:L4:61:SER:O	2.24	0.47
42:L5:151:GLN:HE21	42:L5:159:VAL:HB	1.77	0.47
42:L5:54:ARG:HH12	42:L5:148:ILE:C	2.17	0.47
43:L6:30:LEU:HD13	43:L6:34:LEU:CD1	2.45	0.47
46:L9:23:ARG:C	46:L9:24:ILE:HD13	4.72	0.47
47:M0:128:ARG:HG2	47:M0:128:ARG:NH1	2.30	0.47
48:M1:16:LYS:HG3	48:M1:130:VAL:HG13	5.64	0.47
48:M1:160:VAL:O	48:M1:161:SER:C	2.82	0.47
49:M3:92:THR:HG21	71:O5:111:PHE:O	2.88	0.47
51:M5:113:LEU:HD13	51:M5:136:ASP:HA	1.95	0.47
51:M5:144:ARG:O	51:M5:145:ASP:HB3	2.15	0.47
54:M8:178:ARG:HA	54:M8:178:ARG:HD2	2.83	0.47
62:N6:39:LEU:HD12	62:N6:106:ILE:O	2.14	0.47
65:N9:20:GLY:O	65:N9:21:ILE:CB	3.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:O2:96:ILE:N	68:O2:121:ASN:HD21	2.82	0.47
79:Q3:42:CYS:SG	79:Q3:60:CYS:SG	3.20	0.47
2:S0:28:ASN:O	2:S0:150:ASP:HB3	6.52	0.47
3:S1:27:LYS:HA	3:S1:27:LYS:HD3	1.76	0.47
4:S2:174:ARG:HH12	11:S9:94:ASP:HB3	1.79	0.47
4:S2:54:GLU:H	4:S2:54:GLU:HG2	1.36	0.47
6:S4:251:GLU:HG2	6:S4:255:ARG:HH21	3.49	0.47
7:S5:164:PRO:HG3	30:D8:52:ASP:HB2	3.99	0.47
7:S5:178:GLY:HA3	7:S5:209:TYR:CG	2.49	0.47
7:S5:45:LYS:HD3	7:S5:45:LYS:HA	2.40	0.47
7:S5:84:LYS:HD3	7:S5:92:ARG:NH1	3.57	0.47
8:S6:114:VAL:O	8:S6:115:LYS:HD3	2.15	0.47
9:S7:13:PRO:HB3	9:S7:14:THR:HB	2.09	0.47
11:S9:143:ILE:HD13	80:6:767:U:C5	421.72	0.47
11:S9:30:LEU:HA	11:S9:33:GLU:HG2	5.11	0.47
11:S9:68:LYS:O	11:S9:72:GLU:HB2	3.01	0.47
34:SR:14:GLU:HG2	34:SR:309:VAL:HG12	5.57	0.47
36:1:1110:U:H2'	36:1:1111:U:C6	2.50	0.47
36:1:128:G:H2'	36:1:129:U:O4'	2.15	0.47
36:1:831:G:O2'	36:1:1864:A:N3	2.43	0.47
36:1:2111:G:H5''	60:N4:48:ARG:NH2	2.28	0.47
36:1:2178:A:H3'	39:L2:132:ASN:ND2	2.30	0.47
36:1:2376:G:O2'	36:1:2377:G:H5'	2.15	0.47
36:1:2444:C:H2'	36:1:2445:A:C8	2.49	0.47
36:1:2442:G:H22	36:1:2505:U:H3	1.62	0.47
36:1:995:U:C2	36:1:2637:A:C8	3.02	0.47
36:1:2778:G:C2'	36:1:2779:A:H5'	2.44	0.47
36:1:2900:A:C6	36:1:2901:G:C5	3.02	0.47
36:1:3159:C:C4	36:1:3160:U:C4	3.03	0.47
36:1:517:G:P	44:L7:60:ARG:HH22	2.38	0.47
36:1:537:A:H1'	36:1:557:A:O2'	2.15	0.47
36:1:661:G:C5	36:1:802:C:C6	3.03	0.47
1:2:1067:A:H2'	1:2:1068:G:C8	2.49	0.47
1:2:1371:A:C5	1:2:1394:A:C6	3.02	0.47
1:2:1662:G:N2	1:2:1706:U:C4	2.83	0.47
38:4:120:C:H2'	38:4:121:U:H6	1.80	0.47
85:5:1063:G:O6	85:5:1097:G:C8	2.67	0.47
85:5:1150:A:OP1	85:5:1151:U:O4	2.32	0.47
85:5:1256:G:H2'	85:5:1257:C:C6	2.48	0.47
85:5:1495:U:C2'	85:5:1495:U:O2	2.61	0.47
85:5:1565:G:N2	85:5:1566:A:H1'	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:1604:G:H3'	85:5:1604:G:N3	2.29	0.47
85:5:2249:G:O2'	85:5:2250:G:OP1	2.32	0.47
85:5:2702:A:H4'	85:5:2704:A:O4'	2.14	0.47
85:5:2988:C:O2'	85:5:2989:U:H5'	2.14	0.47
85:5:3048:A:C8	85:5:3090:U:O4	2.67	0.47
85:5:3107:U:H6	85:5:3107:U:O5'	1.98	0.47
85:5:3218:A:H5''	85:5:3219:G:C5	2.49	0.47
85:5:3218:A:H5''	85:5:3219:G:N7	2.29	0.47
92:5:3555:OHX:N5	92:5:3703:OHX:N2	2.62	0.47
85:5:917:A:C5	85:5:918:C:C4	3.03	0.47
80:6:10:G:H21	80:6:11:A:H1'	1.77	0.47
80:6:1146:G:C6	80:6:1147:A:C6	3.02	0.47
80:6:1486:G:C2	80:6:1487:A:C4	3.03	0.47
80:6:1740:A:C6	80:6:1741:U:C4	3.02	0.47
80:6:271:A:N3	80:6:285:G:C2	2.83	0.47
80:6:456:A:C6	80:6:457:G:C6	3.02	0.47
80:6:610:G:H5''	80:6:611:U:OP1	2.13	0.47
80:6:822:U:C4	80:6:823:G:N2	2.83	0.47
80:6:905:A:H2'	80:6:906:A:O4'	2.15	0.47
37:7:47:C:H2'	37:7:48:U:C6	2.50	0.47
15:C3:86:GLU:HG2	15:C3:90:TYR:CE1	6.20	0.47
16:C4:52:ARG:N	80:6:906:A:OP2	292.38	0.47
17:C5:127:ARG:O	17:C5:128:HIS:HB2	4.51	0.47
20:C8:41:ARG:HE	21:C9:46:PRO:HG3	3.30	0.47
23:D1:34:ILE:O	23:D1:52:THR:HA	2.48	0.47
25:D3:27:ASN:O	25:D3:30:LYS:N	2.90	0.47
25:D3:69:ARG:HG3	25:D3:117:ILE:HG12	1.96	0.47
22:D0:63:LEU:HB3	31:D9:34:TYR:CE2	2.49	0.47
39:L2:226:SER:O	39:L2:227:ARG:C	3.03	0.47
40:L3:27:ALA:CB	40:L3:218:ILE:HG22	3.33	0.47
40:L3:62:ARG:O	40:L3:68:HIS:HB2	2.44	0.47
40:L3:92:TYR:HH	85:5:3003:G:HO2'	239.99	0.47
41:L4:104:LYS:HD3	41:L4:104:LYS:HA	1.93	0.47
41:L4:205:PRO:HB3	41:L4:247:PHE:HD2	1.80	0.47
41:L4:338:LYS:O	41:L4:339:LEU:HB2	3.48	0.47
42:L5:40:HIS:ND1	42:L5:42:ALA:HB3	2.51	0.47
44:L7:98:LYS:O	44:L7:102:VAL:HG23	2.87	0.47
45:L8:237:ILE:HG22	45:L8:238:LEU:N	2.29	0.47
45:L8:75:ILE:HG22	45:L8:76:ALA:N	2.27	0.47
49:M3:109:PHE:O	49:M3:113:VAL:HG23	2.14	0.47
49:M3:99:HIS:H	49:M3:99:HIS:CD2	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:M4:22:LEU:HB3	50:M4:64:VAL:HG13	2.80	0.47
52:M6:41:LEU:HD21	52:M6:80:PHE:CD1	3.07	0.47
36:1:1602:A:OP2	55:M9:38:ARG:HG3	2.14	0.47
57:N1:11:THR:HG22	57:N1:14:MET:HB3	1.95	0.47
36:1:1095:U:N3	57:N1:127:GLN:OE1	2.45	0.47
59:N3:17:LEU:HD21	59:N3:98:ASN:OD1	2.15	0.47
62:N6:103:LYS:HE2	85:5:221:A:H62	79.38	0.47
62:N6:58:VAL:HA	62:N6:104:LEU:HD23	1.97	0.47
63:N7:27:LYS:HD2	63:N7:27:LYS:HA	2.44	0.47
63:N7:36:HIS:HB3	63:N7:38:PHE:CZ	2.50	0.47
64:N8:13:GLY:HA2	85:5:943:U:H3'	163.39	0.47
67:O1:57:GLN:O	67:O1:61:LYS:N	3.02	0.47
67:O1:75:ILE:HG12	67:O1:93:VAL:HG13	3.08	0.47
67:O1:88:PRO:C	67:O1:89:LEU:HD12	2.35	0.47
74:O8:11:PHE:O	74:O8:14:LEU:N	2.47	0.47
74:O8:8:ILE:HD12	74:O8:8:ILE:H	1.80	0.47
4:S2:67:GLN:HA	4:S2:70:ASP:HB3	1.96	0.47
1:2:1260:G:O3'	5:S3:183:GLY:HA3	2.15	0.47
6:S4:146:THR:HG21	80:6:123:G:N2	339.21	0.47
7:S5:109:LYS:HD3	7:S5:113:ILE:HD11	1.96	0.47
9:S7:129:LEU:HD22	9:S7:169:PHE:CD1	3.38	0.47
11:S9:163:PRO:HD3	11:S9:169:PRO:O	2.15	0.47
35:SM:57:ASN:OD1	35:SM:57:ASN:N	2.48	0.47
35:SM:59:GLY:O	35:SM:63:ASP:HB2	2.15	0.47
36:1:1236:G:N2	36:1:1244:A:H4'	2.30	0.47
36:1:161:G:N2	36:1:261:U:H1'	2.29	0.47
36:1:1710:C:H2'	36:1:1711:C:H6	1.79	0.47
36:1:2539:C:H5'	36:1:2541:U:O4	2.15	0.47
36:1:2544:U:H2'	36:1:2545:C:C6	2.50	0.47
36:1:2766:U:C4	36:1:2767:U:C4	3.02	0.47
36:1:2967:A:H5''	39:L2:213:GLY:HA3	1.97	0.47
36:1:299:G:H2'	36:1:300:G:O4'	2.14	0.47
36:1:3312:U:O5'	36:1:3312:U:H6	1.97	0.47
36:1:821:U:OP2	92:1:3515:OHX:N3	2.48	0.47
1:2:1175:C:C4	1:2:1176:A:C5	3.03	0.47
1:2:1241:U:O4	1:2:1242:U:N3	2.48	0.47
1:2:1482:G:C2	1:2:1483:C:C2	3.03	0.47
1:2:1612:G:H2'	1:2:1613:U:H6	1.80	0.47
1:2:1780:A:C5	28:D6:87:ARG:NH1	2.83	0.47
1:2:334:G:H2'	1:2:335:U:C6	2.50	0.47
1:2:372:G:H1'	1:2:612:U:O2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:624:G:N1	1:2:625:C:C2	2.83	0.47
85:5:1157:G:C6	85:5:1158:A:C4	3.03	0.47
85:5:1595:U:HO2'	85:5:1596:C:H6	1.63	0.47
85:5:1662:G:H1	85:5:1787:A:N6	2.09	0.47
85:5:2101:C:O2'	85:5:2102:U:OP1	2.31	0.47
85:5:2359:C:O2'	85:5:2360:C:H5'	2.15	0.47
85:5:2608:G:N3	85:5:2609:A:C8	2.83	0.47
85:5:2818:U:C6	85:5:2818:U:H5'	2.38	0.47
85:5:3362:A:H2'	85:5:3363:U:O4'	2.15	0.47
85:5:585:A:C5	85:5:586:C:N4	2.82	0.47
85:5:816:A:C8	85:5:906:A:C6	3.03	0.47
80:6:108:A:H2'	80:6:109:G:C8	2.50	0.47
80:6:1174:C:C4	80:6:1175:U:C4	3.03	0.47
80:6:1478:G:C4	80:6:1479:A:C8	3.03	0.47
77:Q1:21:ARG:HH11	80:6:1654:G:P	281.51	0.47
13:C1:79:LYS:CB	80:6:346:G:H5'	281.77	0.47
80:6:828:U:H2'	80:6:829:A:H5''	1.97	0.47
38:8:65:A:C5	38:8:66:A:C8	3.03	0.47
13:C1:16:GLN:OE1	13:C1:34:TRP:HB3	2.67	0.47
18:C6:47:LYS:NZ	18:C6:114:ARG:HG2	2.30	0.47
21:C9:38:LYS:O	21:C9:39:THR:OG1	2.85	0.47
26:D4:49:LYS:HD2	80:6:782:U:O4	435.16	0.47
28:D6:60:PRO:C	28:D6:62:TYR:H	2.18	0.47
30:D8:11:LYS:O	30:D8:30:VAL:HA	2.14	0.47
36:1:860:G:O5'	39:L2:181:LYS:NZ	2.48	0.47
39:L2:83:HIS:O	39:L2:84:THR:C	2.72	0.47
41:L4:30:ILE:HA	41:L4:124:SER:HB3	1.97	0.47
41:L4:10:SER:OG	41:L4:13:GLY:O	2.23	0.47
41:L4:16:THR:CG2	41:L4:18:ASN:H	2.26	0.47
41:L4:271:LYS:HB2	41:L4:274:TYR:HB3	2.66	0.47
41:L4:361:HIS:CG	41:L4:362:ASP:H	2.33	0.47
42:L5:21:ARG:C	42:L5:23:ARG:H	2.18	0.47
44:L7:121:LYS:HE2	44:L7:125:GLU:OE2	2.15	0.47
47:M0:84:ALA:O	47:M0:140:THR:HG22	2.14	0.47
48:M1:139:THR:HG22	48:M1:147:THR:HA	1.97	0.47
48:M1:17:LEU:HB3	48:M1:76:ALA:HB1	1.97	0.47
50:M4:109:ARG:O	50:M4:111:ALA:N	3.47	0.47
50:M4:14:LEU:HA	50:M4:14:LEU:HD23	2.49	0.47
51:M5:19:LEU:O	51:M5:23:GLN:N	2.69	0.47
52:M6:113:ASP:OD2	52:M6:113:ASP:N	2.33	0.47
58:N2:22:PRO:HG2	58:N2:28:PHE:CD2	3.10	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:N3:77:ILE:HD13	59:N3:126:TRP:CE2	2.93	0.47
59:N3:92:PHE:CE1	85:5:3051:U:H1'	245.08	0.47
61:N5:105:VAL:HG11	61:N5:126:LEU:HD13	1.97	0.47
62:N6:100:HIS:CD2	62:N6:101:PRO:HD2	2.61	0.47
62:N6:76:LEU:HD12	75:O9:31:THR:HG21	3.13	0.47
67:O1:7:VAL:HG12	67:O1:7:VAL:O	2.15	0.47
68:O2:87:MET:C	68:O2:88:HIS:CG	2.87	0.47
75:O9:17:LYS:O	75:O9:18:LYS:C	2.79	0.47
3:S1:201:THR:HG21	3:S1:207:LEU:HD22	1.96	0.47
6:S4:159:THR:HG22	6:S4:173:ILE:HB	1.97	0.47
6:S4:31:PRO:HG2	6:S4:38:LEU:HD13	1.97	0.47
9:S7:124:LYS:HA	9:S7:127:GLU:HB2	2.56	0.47
9:S7:129:LEU:HD21	9:S7:172:VAL:HG11	1.96	0.47
11:S9:122:VAL:HG23	11:S9:123:HIS:CD2	2.50	0.47
36:1:1349:G:H5'	41:L4:291:ASN:OD1	2.14	0.47
36:1:1435:A:N7	36:1:1437:C:C2	2.83	0.47
36:1:1578:C:H3'	36:1:1579:C:C6	2.50	0.47
36:1:1695:U:C2	36:1:1749:A:C2	3.02	0.47
36:1:3003:G:C4	36:1:3146:G:N1	2.82	0.47
36:1:899:U:OP2	92:1:3515:OHX:N1	2.48	0.47
36:1:495:G:H2'	36:1:496:C:O4'	2.15	0.47
36:1:553:U:H2'	36:1:554:A:O4'	2.14	0.47
36:1:643:U:C4	36:1:644:G:C6	3.03	0.47
36:1:848:A:C5	36:1:849:C:H1'	2.49	0.47
1:2:179:A:N6	1:2:180:A:C6	2.82	0.47
92:2:1911:OHX:N6	3:S1:160:HIS:NE2	2.63	0.47
92:2:1970:OHX:N4	92:2:1985:OHX:N3	2.62	0.47
1:2:63:G:N2	1:2:64:U:H1'	2.29	0.47
37:3:35:C:C4	37:3:36:C:C2	3.03	0.47
37:3:65:G:C2	37:3:66:A:C5	3.03	0.47
85:5:1250:G:O2'	85:5:1251:A:H5'	2.14	0.47
85:5:160:G:H2'	85:5:161:G:O4'	2.14	0.47
85:5:1757:A:N3	85:5:1769:G:C2	2.83	0.47
85:5:239:G:H5''	85:5:240:U:OP1	2.14	0.47
85:5:270:U:O2	85:5:318:A:H2	1.98	0.47
85:5:2815:G:H5''	85:5:2816:G:OP2	2.15	0.47
85:5:3065:G:H2'	85:5:3066:U:O4'	2.14	0.47
85:5:325:A:H5''	85:5:326:U:OP2	2.15	0.47
85:5:196:G:N7	92:5:3447:OHX:N3	2.63	0.47
85:5:358:G:N2	85:5:362:U:C2	2.83	0.47
85:5:378:A:C2	85:5:379:C:H1'	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:818:C:N3	85:5:920:A:H5'	2.30	0.47
80:6:1203:A:C6	80:6:1555:A:C6	3.03	0.47
80:6:1701:A:H3'	80:6:1702:A:H5''	1.96	0.47
80:6:1727:G:O6	92:6:1914:OHX:N6	2.48	0.47
92:6:1978:OHX:N2	92:6:2001:OHX:N4	2.63	0.47
80:6:395:U:C4	80:6:396:G:C6	3.02	0.47
80:6:545:A:H4'	80:6:546:U:OP1	2.15	0.47
80:6:595:G:C6	80:6:596:C:N4	2.83	0.47
37:7:111:U:O2'	92:7:205:OHX:N2	2.47	0.47
38:8:72:A:C6	38:8:73:U:C4	3.03	0.47
13:C1:99:ARG:HH12	25:D3:7:ARG:HG3	1.80	0.47
14:C2:125:ASN:HA	35:SM:169:UNK:O	2.15	0.47
17:C5:20:VAL:HG12	17:C5:24:LYS:HB2	1.96	0.47
17:C5:21:ASP:O	17:C5:25:LEU:N	3.39	0.47
21:C9:135:ILE:HG13	21:C9:135:ILE:H	1.47	0.47
2:S0:3:LEU:HA	23:D1:39:VAL:HG21	7.61	0.47
25:D3:116:ASP:O	25:D3:118:PRO:HD3	2.15	0.47
26:D4:112:LYS:HE3	26:D4:113:ASN:OD1	2.14	0.47
27:D5:73:GLY:O	27:D5:77:ARG:HG3	2.14	0.47
7:S5:144:GLU:OE2	30:D8:57:MET:HB2	2.41	0.47
32:E0:14:VAL:O	32:E0:18:THR:HG23	2.13	0.47
33:E1:140:TYR:HE1	33:E1:146:SER:HA	1.79	0.47
39:L2:21:ARG:NH2	39:L2:22:LEU:HD11	2.29	0.47
40:L3:107:ALA:HA	40:L3:199:PHE:CD2	2.54	0.47
41:L4:23:PRO:O	41:L4:25:VAL:N	2.71	0.47
42:L5:57:ASN:HA	42:L5:58:LYS:HZ2	1.80	0.47
43:L6:136:GLU:O	43:L6:137:ASP:C	3.01	0.47
44:L7:228:SER:O	44:L7:229:PHE:HB3	4.15	0.47
45:L8:101:THR:HG22	45:L8:104:GLU:HG3	1.96	0.47
46:L9:140:VAL:CG2	46:L9:143:GLU:HB2	2.84	0.47
47:M0:116:ARG:HH12	85:5:2622:C:H42	231.09	0.47
36:1:1044:U:O2'	47:M0:92:HIS:HB2	2.15	0.47
51:M5:142:ILE:O	51:M5:144:ARG:O	2.33	0.47
36:1:412:G:OP1	53:M7:62:ARG:NH1	2.47	0.47
55:M9:142:ILE:HA	55:M9:145:ALA:HB3	1.96	0.47
56:N0:157:GLN:O	56:N0:158:LYS:C	3.16	0.47
56:N0:170:THR:OG1	85:5:3185:U:O2'	304.00	0.47
58:N2:58:GLU:C	58:N2:60:GLY:H	2.18	0.47
59:N3:13:ILE:HG12	59:N3:53:SER:HB2	2.87	0.47
60:N4:35:LYS:N	85:5:3085:G:OP1	228.33	0.47
63:N7:87:LEU:HD12	63:N7:88:ASP:N	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:O1:11:GLU:HG3	67:O1:109:VAL:CG2	3.09	0.47
67:O1:88:PRO:HG2	67:O1:89:LEU:HD13	1.97	0.47
67:O1:98:VAL:CG2	67:O1:99:ALA:N	2.78	0.47
69:O3:91:ALA:C	69:O3:93:THR:N	3.03	0.47
78:Q2:10:THR:HG23	78:Q2:11:TYR:N	2.29	0.47
2:S0:49:ASN:OD1	2:S0:52:LYS:HG3	4.10	0.47
2:S0:54:TRP:O	2:S0:58:VAL:HG23	2.24	0.47
1:2:867:A:H5''	3:S1:136:ARG:CZ	2.45	0.47
3:S1:48:VAL:HG11	3:S1:57:ALA:HB1	1.95	0.47
3:S1:30:PHE:HB3	3:S1:96:LEU:HD22	3.62	0.47
4:S2:152:HIS:CG	4:S2:174:ARG:HG3	2.49	0.47
4:S2:243:TYR:HB3	4:S2:246:GLU:HB2	1.97	0.47
6:S4:42:LEU:CD2	6:S4:46:VAL:HB	2.45	0.47
9:S7:71:HIS:CG	9:S7:131:PHE:CZ	3.02	0.47
1:2:385:A:H5''	10:S8:22:ARG:HB2	1.96	0.47
36:1:121:A:N3	45:L8:108:ARG:NH1	2.63	0.47
36:1:1668:G:C6	36:1:1669:C:C4	3.03	0.47
36:1:1719:G:OP1	55:M9:110:ARG:NH2	2.47	0.47
36:1:1619:A:C2	36:1:1826:C:C2	3.03	0.47
36:1:1841:A:C6	36:1:1848:G:C6	3.03	0.47
36:1:2662:G:H2'	36:1:2663:G:O4'	2.15	0.47
36:1:299:G:N7	92:1:3684:OHX:N5	2.62	0.47
36:1:3067:C:H5''	55:M9:58:HIS:HD2	1.79	0.47
36:1:3268:A:C8	43:L6:130:ILE:HD11	2.50	0.47
36:1:748:U:C4	36:1:749:C:N4	2.83	0.47
1:2:1022:A:N6	1:2:1074:A:C2	2.83	0.47
1:2:1124:G:C2	1:2:1125:A:C5	3.03	0.47
1:2:1132:G:H5''	1:2:1133:G:OP1	2.15	0.47
1:2:1140:A:H2'	1:2:1143:A:N7	2.30	0.47
1:2:1181:G:C2	1:2:1183:G:O6	2.68	0.47
1:2:1190:C:N4	1:2:1439:C:H41	2.03	0.47
1:2:1593:G:OP1	7:S5:72:HIS:NE2	2.42	0.47
1:2:514:G:O2'	1:2:515:A:H5'	2.14	0.47
85:5:1081:U:H4'	85:5:1082:U:O5'	2.15	0.47
55:M9:43:LYS:HE2	85:5:1765:U:H5'	92.72	0.47
85:5:2370:G:C6	85:5:2371:G:C5	3.03	0.47
85:5:2953:U:H2'	85:5:2954:U:O2	2.15	0.47
85:5:3163:A:C2'	85:5:3164:C:H5'	2.44	0.47
85:5:3275:U:O2'	85:5:3276:G:N1	2.48	0.47
85:5:3161:C:C2	85:5:3290:G:N2	2.83	0.47
85:5:3312:U:OP1	92:5:3521:OHX:N4	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
92:5:3565:OHX:N4	92:5:3574:OHX:N1	2.62	0.47
85:5:824:C:H2'	85:5:825:U:H6	1.79	0.47
64:N8:59:ARG:NH1	85:5:90:C:OP1	151.38	0.47
80:6:1127:G:C6	80:6:1128:C:C4	3.03	0.47
80:6:1507:G:H2'	80:6:1508:U:C6	2.50	0.47
80:6:1732:A:H2'	80:6:1733:C:H6	1.80	0.47
80:6:314:C:C2	80:6:355:G:C2	3.03	0.47
80:6:512:A:H2'	80:6:513:U:C6	2.50	0.47
38:8:83:C:H4'	38:8:85:G:C2	2.49	0.47
13:C1:94:ILE:HG22	13:C1:97:TYR:H	2.42	0.47
15:C3:97:SER:O	15:C3:100:LYS:HB2	4.86	0.47
18:C6:55:VAL:HG21	18:C6:89:LEU:HD21	2.84	0.47
24:D2:23:ARG:HD2	24:D2:65:LEU:O	2.13	0.47
28:D6:79:ILE:HA	28:D6:84:VAL:HG21	1.97	0.47
39:L2:209:HIS:CD2	39:L2:210:PRO:N	2.83	0.47
36:1:2202:C:O2'	39:L2:240:ALA:O	2.20	0.47
39:L2:58:LEU:HD23	39:L2:77:ILE:HA	1.97	0.47
39:L2:82:VAL:HA	39:L2:86:GLN:OE1	2.72	0.47
40:L3:114:VAL:HG22	40:L3:163:HIS:CD2	2.50	0.47
41:L4:50:TYR:CE2	41:L4:109:TRP:CH2	3.47	0.47
42:L5:152:ARG:CG	42:L5:152:ARG:HH11	3.23	0.47
42:L5:163:LEU:HD21	42:L5:175:HIS:CG	3.04	0.47
42:L5:163:LEU:HD21	42:L5:175:HIS:CD2	3.73	0.47
44:L7:184:LEU:O	44:L7:187:GLU:N	2.47	0.47
44:L7:240:VAL:O	44:L7:244:ASN:N	2.70	0.47
45:L8:103:ALA:HA	45:L8:106:LYS:HB2	3.25	0.47
45:L8:161:GLU:HA	45:L8:164:VAL:HG22	2.09	0.47
47:M0:86:HIS:O	47:M0:138:VAL:HA	2.15	0.47
50:M4:21:VAL:HG22	50:M4:63:VAL:HG22	1.96	0.47
52:M6:108:ILE:HG22	52:M6:113:ASP:HB3	1.97	0.47
56:N0:13:ARG:HG2	56:N0:51:VAL:HG11	1.96	0.47
36:1:992:A:H5'	57:N1:43:LYS:HD3	1.97	0.47
59:N3:33:ASN:ND2	59:N3:63:LYS:HB2	2.30	0.47
60:N4:25:ASP:OD2	60:N4:25:ASP:N	4.01	0.47
67:O1:70:ARG:HD2	67:O1:102:LYS:HE2	3.99	0.47
69:O3:70:LYS:O	69:O3:70:LYS:HG2	2.12	0.47
70:O4:51:LEU:HA	70:O4:51:LEU:HD23	3.71	0.47
36:1:1821:U:C4	70:O4:67:LYS:HD2	2.49	0.47
71:O5:54:VAL:HG12	71:O5:58:ILE:HD11	2.98	0.47
72:O6:81:THR:HA	72:O6:84:LYS:NZ	4.99	0.47
73:O7:87:SER:C	92:O7:102:OHX:N3	2.65	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S3:29:LEU:HD21	5:S3:69:LEU:HD21	3.12	0.47
8:S6:160:ARG:HG3	60:N4:84:GLY:HA3	1.96	0.47
9:S7:165:LYS:O	9:S7:168:SER:HB2	3.98	0.47
9:S7:10:SER:HB3	9:S7:43:PHE:O	2.15	0.47
10:S8:98:LYS:HG2	10:S8:99:ALA:N	2.30	0.47
11:S9:129:ILE:HG12	11:S9:134:ILE:HD11	1.96	0.47
34:SR:170:ILE:HG21	34:SR:211:ILE:HD13	2.61	0.47
34:SR:44:SER:HG	34:SR:61:PHE:HE2	1.61	0.47
36:1:121:A:C2	45:L8:129:PRO:HB3	2.50	0.47
36:1:3156:U:O2'	36:1:3157:U:H5''	2.15	0.47
36:1:1310:G:O6	92:1:3560:OHX:N1	2.48	0.47
36:1:437:G:H1	36:1:622:A:N6	2.13	0.47
36:1:499:G:C6	36:1:500:C:C4	3.03	0.47
36:1:688:G:N2	36:1:690:A:O4'	2.47	0.47
1:2:1204:A:H61	1:2:1245:U:H3	1.63	0.47
1:2:1458:A:H2'	1:2:1459:C:O4'	2.15	0.47
1:2:219:A:N6	1:2:826:U:O2	2.48	0.47
1:2:55:A:OP1	26:D4:112:LYS:NZ	2.28	0.47
37:3:64:A:OP1	47:M0:206:LEU:HB3	2.14	0.47
47:M0:157:TYR:OH	85:5:1206:G:OP1	311.22	0.47
85:5:1599:G:C2	85:5:1600:U:C2	3.03	0.47
85:5:2318:U:C4	85:5:2319:U:C4	3.03	0.47
85:5:2588:U:C4	85:5:2589:G:N7	2.82	0.47
85:5:2628:A:H1'	85:5:2798:C:C2	2.49	0.47
64:N8:60:TYR:CE2	85:5:2777:G:C2	139.43	0.47
85:5:2774:C:C2	85:5:2787:G:C2	3.03	0.47
85:5:1196:C:OP1	92:5:3742:OHX:N6	2.48	0.47
85:5:591:G:O5'	85:5:591:G:H8	1.98	0.47
85:5:897:U:H2'	85:5:898:U:C6	2.49	0.47
80:6:1489:U:C4	80:6:1513:G:C6	3.03	0.47
80:6:1545:A:C2	80:6:1567:U:C2	3.03	0.47
10:S8:141:ARG:NH2	80:6:196:G:N7	279.47	0.47
80:6:804:A:O2'	80:6:805:U:H5'	2.15	0.47
80:6:846:G:H2'	80:6:847:A:C8	2.50	0.47
16:C4:37:GLU:HA	80:6:895:G:O2'	258.89	0.47
37:7:95:A:C6	37:7:96:U:C4	3.03	0.47
15:C3:8:GLY:O	15:C3:9:LYS:HD3	3.28	0.47
1:2:1770:C:OP2	16:C4:132:ARG:HG2	2.15	0.47
16:C4:87:GLY:O	16:C4:90:ARG:HB2	2.15	0.47
16:C4:26:THR:HG21	16:C4:97:GLY:HA3	1.97	0.47
19:C7:27:ASP:O	19:C7:31:ASN:OD1	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:C8:24:GLY:O	20:C8:26:ILE:HG23	2.15	0.47
20:C8:86:LEU:HA	20:C8:99:HIS:ND1	2.73	0.47
21:C9:11:ALA:HB2	21:C9:63:ARG:NH2	2.30	0.47
20:C8:40:ARG:NH2	21:C9:44:GLU:OE2	3.04	0.47
21:C9:14:PHE:CE2	21:C9:63:ARG:HB2	2.49	0.47
23:D1:3:ASN:OD1	23:D1:7:GLN:HB3	2.14	0.47
24:D2:6:VAL:HG12	24:D2:34:ILE:HD11	1.97	0.47
26:D4:116:LYS:O	26:D4:118:ILE:N	2.81	0.47
26:D4:42:GLU:OE2	26:D4:52:LYS:NZ	5.04	0.47
28:D6:85:ARG:O	28:D6:86:VAL:HB	2.15	0.47
33:E1:134:ASN:H	80:6:1251:U:H4'	441.42	0.47
40:L3:332:ARG:HG2	40:L3:333:LYS:HD3	1.97	0.47
40:L3:374:ALA:O	40:L3:377:HIS:N	2.48	0.47
40:L3:6:TYR:O	40:L3:7:GLU:C	2.52	0.47
40:L3:80:ASP:C	40:L3:80:ASP:OD1	2.99	0.47
41:L4:141:ARG:H	41:L4:141:ARG:HG2	1.38	0.47
41:L4:179:LEU:O	41:L4:180:LYS:C	2.68	0.47
41:L4:204:GLY:N	41:L4:224:GLY:O	2.85	0.47
41:L4:234:ASN:HD21	41:L4:236:LEU:HD12	1.79	0.47
43:L6:163:PHE:CZ	43:L6:165:LEU:HD23	2.96	0.47
46:L9:88:TYR:CE2	46:L9:184:LYS:HD3	2.98	0.47
46:L9:69:ARG:O	46:L9:72:LYS:HB3	2.14	0.47
46:L9:88:TYR:CZ	46:L9:155:SER:HB3	2.95	0.47
47:M0:205:SER:CB	47:M0:208:ASN:HD21	2.90	0.47
47:M0:214:PRO:HD2	47:M0:215:GLU:OE1	8.00	0.47
49:M3:87:ALA:O	49:M3:90:ALA:N	2.48	0.47
50:M4:59:ASN:OD1	50:M4:60:LEU:N	2.47	0.47
46:L9:53:ILE:HD13	50:M4:7:VAL:HG21	2.03	0.47
58:N2:84:LEU:O	58:N2:89:LEU:N	2.46	0.47
64:N8:95:SER:OG	64:N8:98:THR:O	3.27	0.47
67:O1:28:ARG:O	67:O1:29:ALA:C	3.22	0.47
69:O3:35:VAL:HG13	69:O3:40:ASP:HB3	2.24	0.47
3:S1:36:SER:HB3	3:S1:231:LEU:HB3	1.97	0.47
6:S4:121:TYR:HB2	6:S4:162:ILE:O	2.49	0.47
6:S4:122:LYS:HG2	6:S4:164:LEU:HD21	1.97	0.47
1:2:398:G:O2'	6:S4:3:ARG:O	2.22	0.47
6:S4:72:VAL:HG22	6:S4:90:ILE:HG12	3.00	0.47
8:S6:63:MET:HA	8:S6:98:ARG:O	2.61	0.47
11:S9:108:ARG:HH22	11:S9:126:ARG:HH21	2.97	0.47
35:SM:34:LYS:NZ	36:1:2692:A:O3'	2.46	0.47
36:1:1000:C:H2'	36:1:1000:C:H6	1.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1209:G:C6	36:1:1210:U:N3	2.83	0.47
36:1:1237:G:H2'	36:1:1237:G:N3	2.30	0.47
36:1:1340:G:H2'	36:1:1341:U:C6	2.50	0.47
36:1:1354:G:H1'	43:L6:8:LYS:HD3	1.96	0.47
36:1:1345:G:C2	36:1:1360:C:C2	3.03	0.47
36:1:1700:G:H1	36:1:1745:C:H42	1.63	0.47
36:1:1841:A:N1	36:1:1848:G:C6	2.83	0.47
36:1:2211:U:C5	36:1:2212:C:C4	3.03	0.47
36:1:2374:C:N4	36:1:2941:A:C4	2.83	0.47
36:1:240:U:OP2	71:O5:94:LYS:NZ	2.42	0.47
36:1:3121:U:H4'	36:1:3122:A:OP1	2.15	0.47
36:1:527:A:C5	36:1:528:U:C5	3.03	0.47
36:1:901:G:O2'	36:1:902:G:H5'	2.15	0.47
1:2:1051:C:H2'	1:2:1052:A:H8	1.80	0.47
1:2:1123:G:H2'	1:2:1124:G:H8	1.80	0.47
1:2:1477:C:H2'	1:2:1478:C:C6	2.40	0.47
1:2:334:G:H2'	1:2:335:U:H6	1.79	0.47
1:2:577:G:H3'	1:2:577:G:C8	2.50	0.47
1:2:582:U:H3'	1:2:583:C:C6	2.49	0.47
1:2:994:G:OP2	92:2:1967:OHX:N6	2.48	0.47
37:3:79:A:OP2	92:3:203:OHX:N6	2.48	0.47
37:3:8:G:O6	42:L5:21:ARG:NH2	2.37	0.47
45:L8:162:LEU:HD11	85:5:147:U:O2	122.43	0.47
85:5:1815:U:O2'	85:5:1816:A:P	2.73	0.47
85:5:197:G:H2'	85:5:198:A:O4'	2.14	0.47
85:5:206:G:H1	85:5:223:U:H3	1.61	0.47
85:5:2652:U:C4	85:5:2759:U:O2	2.68	0.47
85:5:2846:U:C4'	85:5:2846:U:C6	2.98	0.47
85:5:327:A:C6	85:5:328:U:C4	3.03	0.47
85:5:3364:C:H2'	85:5:3365:U:C6	2.50	0.47
80:6:1226:A:O2'	80:6:1256:A:N6	2.42	0.47
80:6:1390:U:H6	80:6:1412:G:H1'	1.80	0.47
80:6:48:G:C2	80:6:49:C:C5	3.03	0.47
80:6:846:G:H2'	80:6:847:A:H8	1.79	0.47
37:7:30:G:C5	37:7:31:U:C5	3.03	0.47
37:7:57:G:C8	37:7:58:C:C6	3.03	0.47
38:8:108:C:H2'	38:8:109:A:O4'	2.15	0.47
15:C3:34:ILE:O	15:C3:38:VAL:HG23	2.14	0.47
17:C5:82:ASN:N	17:C5:82:ASN:OD1	2.45	0.47
19:C7:66:VAL:O	19:C7:69:ILE:HG12	2.15	0.47
23:D1:40:ASP:N	23:D1:46:ILE:HD11	3.58	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:D2:11:LEU:HD22	24:D2:72:CYS:HB2	1.97	0.47
24:D2:9:ASP:N	24:D2:9:ASP:OD1	2.98	0.47
27:D5:41:ILE:HD12	27:D5:41:ILE:HA	1.78	0.47
28:D6:84:VAL:HG22	80:6:1797:A:C6	337.42	0.47
36:L1:1794:G:H4'	39:L2:191:LEU:HD13	1.96	0.47
40:L3:123:TYR:CE2	40:L3:124:LYS:HG3	2.49	0.47
40:L3:188:ILE:O	40:L3:192:VAL:HG12	2.15	0.47
40:L3:2:SER:O	40:L3:3:HIS:CB	2.84	0.47
41:L4:156:LEU:C	41:L4:158:SER:H	2.42	0.47
41:L4:219:LEU:C	41:L4:221:ASN:N	2.67	0.47
41:L4:138:ARG:HE	41:L4:240:PRO:HD2	1.79	0.47
41:L4:77:VAL:HG12	41:L4:78:GLY:N	2.75	0.47
42:L5:61:ILE:HA	42:L5:79:TYR:CD1	3.17	0.47
43:L6:98:VAL:HA	43:L6:101:PHE:CD2	2.50	0.47
45:L8:238:LEU:HD12	45:L8:238:LEU:H	3.26	0.47
46:L9:20:ILE:HD12	46:L9:45:PHE:CD1	2.50	0.47
48:M1:91:LEU:O	48:M1:171:VAL:HA	5.23	0.47
49:M3:168:ARG:HG3	49:M3:172:LEU:CD1	3.48	0.47
49:M3:49:ARG:NH2	71:O5:113:GLN:OE1	4.22	0.47
50:M4:20:VAL:O	50:M4:66:THR:HG23	2.86	0.47
50:M4:120:VAL:HG22	52:M6:197:LEU:HD13	2.65	0.47
53:M7:70:THR:OG1	53:M7:71:ALA:N	2.48	0.47
54:M8:111:ARG:HA	54:M8:121:CYS:SG	3.19	0.47
54:M8:131:ALA:HB1	54:M8:135:GLN:H	2.00	0.47
54:M8:133:LYS:HB2	54:M8:135:GLN:NE2	2.43	0.47
54:M8:67:ILE:HG12	54:M8:81:VAL:HG21	1.96	0.47
56:N0:109:ASP:OD1	56:N0:113:ARG:HD2	2.14	0.47
57:N1:68:THR:HG22	57:N1:71:SER:OG	3.35	0.47
58:N2:105:LEU:HD12	58:N2:105:LEU:HA	2.46	0.47
58:N2:85:LYS:HD3	58:N2:90:ARG:HG3	2.96	0.47
59:N3:11:PHE:HB2	59:N3:88:ARG:CZ	3.12	0.47
63:N7:81:LEU:HD22	63:N7:81:LEU:HA	2.74	0.47
64:N8:61:PHE:CE1	85:5:283:G:C8	144.50	0.47
68:O2:98:HIS:HA	85:5:1412:G:OP1	144.48	0.47
70:O4:8:ARG:NH2	70:O4:31:ARG:HD2	2.41	0.47
70:O4:56:THR:HG21	85:5:1739:U:O2'	181.23	0.47
71:O5:4:VAL:HB	71:O5:50:SER:HB3	1.98	0.47
74:O8:32:ASN:OD1	74:O8:36:LYS:N	3.49	0.47
2:S0:41:ARG:NH1	2:S0:45:VAL:HG21	2.19	0.47
4:S2:169:LEU:HD11	4:S2:188:LEU:HD21	1.96	0.47
11:S9:38:ASN:HB2	11:S9:41:GLU:H	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1003:A:C5	36:1:1004:U:C5	3.03	0.46
36:1:1015:U:O4	36:1:1035:G:N2	2.46	0.46
36:1:1123:U:C2	36:1:1136:A:C2	3.02	0.46
36:1:112:U:O2'	36:1:113:C:OP2	2.31	0.46
36:1:1257:C:H42	36:1:1261:G:H22	1.62	0.46
36:1:1541:G:H1'	36:1:1557:A:C4	2.50	0.46
36:1:1636:U:H5''	63:N7:73:LYS:HZ3	1.80	0.46
36:1:188:U:O2	36:1:208:C:H1'	2.15	0.46
36:1:1869:C:H4'	36:1:3077:A:O2'	2.14	0.46
36:1:3351:U:HO2'	36:1:3352:U:P	2.38	0.46
36:1:536:U:H5'	36:1:559:A:C2	2.50	0.46
36:1:712:G:N2	36:1:754:G:O3'	2.48	0.46
1:2:1077:G:C6	1:2:1078:U:C4	3.03	0.46
1:2:1123:G:OP2	92:2:1944:OHX:N6	2.48	0.46
1:2:1518:U:H5	7:S5:186:ASN:HA	1.79	0.46
1:2:223:U:H3	1:2:821:G:H1	1.63	0.46
1:2:314:C:N3	1:2:355:G:C6	2.83	0.46
1:2:81:G:C6	1:2:82:U:C2	3.03	0.46
1:2:869:U:O2	16:C4:123:SER:N	2.43	0.46
37:3:49:G:N7	42:L5:58:LYS:HG3	2.30	0.46
38:4:81:U:H1'	38:4:82:U:H5'	1.95	0.46
85:5:999:G:C6	85:5:1000:C:N4	2.83	0.46
85:5:1087:G:C2	85:5:1088:U:C6	3.03	0.46
85:5:129:U:H2'	85:5:130:A:C8	2.50	0.46
85:5:187:A:C2	85:5:211:A:C5	3.04	0.46
85:5:2374:C:N4	85:5:2941:A:N3	2.62	0.46
85:5:2435:G:H1	85:5:2512:C:H42	1.63	0.46
85:5:959:C:N4	85:5:2801:A:C8	2.83	0.46
85:5:2885:C:N3	85:5:2886:U:C4	2.83	0.46
85:5:979:U:O2	85:5:980:A:N3	2.48	0.46
24:D2:71:LYS:HD3	80:6:1098:U:O2'	379.39	0.46
80:6:1515:A:O2'	80:6:1517:U:OP2	2.28	0.46
80:6:1643:U:O2	80:6:1780:G:N2	2.48	0.46
80:6:208:U:H2'	80:6:209:U:C6	2.50	0.46
80:6:484:C:H42	80:6:503:G:N2	2.13	0.46
80:6:538:A:C8	80:6:543:C:N4	2.62	0.46
15:C3:15:ALA:O	80:6:959:U:H5''	350.06	0.46
80:6:971:A:N6	85:5:846:A:N6	2.62	0.46
37:7:52:G:C6	37:7:53:U:C4	3.03	0.46
19:C7:53:TYR:O	19:C7:57:LEU:HG	2.16	0.46
24:D2:25:VAL:HG12	24:D2:63:VAL:HB	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:D4:43:LYS:HB2	26:D4:43:LYS:HE3	5.11	0.46
28:D6:24:VAL:HG12	28:D6:72:HIS:O	2.15	0.46
5:S3:16:VAL:HG11	31:D9:22:ARG:NH1	3.49	0.46
40:L3:50:LYS:HD3	40:L3:330:GLY:O	2.15	0.46
43:L6:43:LEU:HD11	43:L6:85:ILE:HG13	2.33	0.46
45:L8:187:GLY:HA2	45:L8:195:SER:HB2	2.10	0.46
45:L8:246:MET:CE	45:L8:249:ARG:HH21	2.28	0.46
46:L9:41:ILE:HD13	46:L9:41:ILE:O	2.15	0.46
47:M0:193:ASP:O	47:M0:196:PHE:O	2.32	0.46
48:M1:152:HIS:CD2	48:M1:153:LYS:H	5.14	0.46
49:M3:162:ASN:OD1	49:M3:164:GLU:N	3.35	0.46
49:M3:5:LYS:HZ3	49:M3:5:LYS:HG3	1.58	0.46
36:1:3199:G:H5''	50:M4:6:ILE:HG21	1.96	0.46
52:M6:35:VAL:HB	52:M6:104:VAL:HG13	2.57	0.46
53:M7:138:LYS:HG3	53:M7:138:LYS:O	3.04	0.46
53:M7:51:VAL:O	53:M7:54:HIS:N	2.44	0.46
55:M9:32:ILE:O	55:M9:34:GLN:N	3.34	0.46
56:N0:131:LYS:HB2	56:N0:134:ASP:OD2	2.16	0.46
58:N2:36:TYR:OH	58:N2:82:LYS:HG2	2.16	0.46
60:N4:47:ARG:H	60:N4:47:ARG:HD2	1.81	0.46
62:N6:56:VAL:CG1	62:N6:104:LEU:HD13	2.85	0.46
63:N7:83:THR:HG23	63:N7:85:TYR:N	2.45	0.46
63:N7:92:PHE:HA	63:N7:95:VAL:HG23	2.22	0.46
64:N8:70:LYS:HG2	64:N8:70:LYS:O	2.15	0.46
66:O0:24:THR:HG22	66:O0:91:SER:HB3	1.96	0.46
67:O1:46:THR:HG23	67:O1:47:ASP:N	3.71	0.46
67:O1:68:GLU:HG3	67:O1:69:TYR:H	1.80	0.46
69:O3:73:ARG:CZ	69:O3:82:ARG:NH2	2.78	0.46
71:O5:22:VAL:H	71:O5:22:VAL:HG23	1.42	0.46
2:S0:162:CYS:HB3	2:S0:173:ILE:HG13	1.97	0.46
2:S0:25:GLY:O	2:S0:46:HIS:HB2	5.92	0.46
3:S1:196:GLU:HA	3:S1:199:ASN:ND2	2.30	0.46
5:S3:7:LYS:HA	5:S3:10:LYS:HB3	1.97	0.46
5:S3:90:ARG:HH22	5:S3:94:ARG:HE	10.08	0.46
8:S6:163:THR:HG22	8:S6:168:THR:HG22	2.24	0.46
9:S7:14:THR:H	9:S7:17:GLU:HB2	1.80	0.46
36:1:1396:C:H6	36:1:1396:C:O5'	1.98	0.46
36:1:2157:G:N2	36:1:2178:A:OP2	2.33	0.46
36:1:3011:A:N3	36:1:3012:A:H1'	2.29	0.46
36:1:3291:G:H2'	36:1:3292:A:H8	1.79	0.46
36:1:591:G:H21	43:L6:19:LYS:H	1.62	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1197:U:OP1	1:2:1229:C:H1'	2.16	0.46
1:2:1469:G:N1	1:2:1505:U:H5	2.13	0.46
1:2:1102:G:O6	92:2:2029:OHX:N1	2.48	0.46
1:2:432:G:C5	1:2:433:C:C4	3.03	0.46
1:2:647:G:H22	1:2:670:G:N2	2.13	0.46
1:2:688:U:OP1	1:2:688:U:H4'	2.15	0.46
1:2:802:G:O2'	1:2:804:U:OP2	2.20	0.46
85:5:1561:G:C2	85:5:1562:C:C2	3.02	0.46
85:5:1661:G:H2'	85:5:1662:G:C8	2.50	0.46
85:5:1934:G:C6	85:5:1935:G:C8	3.03	0.46
85:5:210:U:C2	85:5:230:U:H4'	2.50	0.46
85:5:2117:A:C8	85:5:3064:U:H1'	2.50	0.46
85:5:2124:G:C2	85:5:2125:A:C8	3.03	0.46
85:5:2300:G:H1'	85:5:2328:U:O2'	2.16	0.46
85:5:2708:C:H2'	85:5:2709:C:O4'	2.14	0.46
54:M8:181:SER:HB3	85:5:2790:A:OP2	181.97	0.46
85:5:2948:C:H2'	85:5:2949:U:O4'	2.15	0.46
85:5:3279:A:N6	85:5:3280:U:C4	2.83	0.46
85:5:3317:U:H6	92:5:3637:OHX:N6	2.12	0.46
85:5:420:G:O6	92:5:3437:OHX:N3	2.47	0.46
85:5:3127:A:P	92:5:3658:OHX:N5	2.88	0.46
85:5:560:G:C2	85:5:561:C:C2	3.03	0.46
80:6:1244:A:N3	80:6:1244:A:H2'	2.31	0.46
80:6:1350:U:H2'	80:6:1351:G:H8	1.79	0.46
80:6:15:U:C4	80:6:16:G:C5	3.03	0.46
80:6:333:A:N1	80:6:334:G:C2	2.83	0.46
80:6:560:U:O2'	80:6:561:G:H5'	2.15	0.46
80:6:641:G:N1	80:6:642:G:C5	2.83	0.46
80:6:708:C:H2'	80:6:709:C:O4'	2.15	0.46
3:S1:214:LYS:HE3	80:6:886:U:OP1	287.43	0.46
37:7:26:C:H2'	37:7:27:A:O4'	2.15	0.46
17:C5:123:TYR:OH	20:C8:122:HIS:NE2	2.37	0.46
24:D2:73:GLY:O	24:D2:128:PHE:N	3.01	0.46
26:D4:121:THR:C	26:D4:123:LYS:N	3.75	0.46
26:D4:28:LEU:H	26:D4:28:LEU:HD12	3.78	0.46
27:D5:93:SER:HG	27:D5:94:LYS:H	1.59	0.46
29:D7:49:HIS:HD2	80:6:957:G:O2'	339.89	0.46
7:S5:57:SER:HB3	30:D8:53:ILE:HB	1.97	0.46
39:L2:58:LEU:HA	39:L2:58:LEU:HD23	2.18	0.46
39:L2:66:PRO:HB2	39:L2:67:TYR:CZ	2.50	0.46
41:L4:103:THR:HG22	41:L4:107:ARG:HH22	2.62	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:144:LYS:HG2	41:L4:145:ILE:N	5.39	0.46
41:L4:22:LEU:HD22	41:L4:23:PRO:HD2	1.96	0.46
42:L5:115:LEU:O	42:L5:118:THR:O	2.33	0.46
42:L5:198:TYR:CE1	42:L5:203:HIS:CG	3.62	0.46
42:L5:200:PHE:O	42:L5:240:TYR:HD2	2.36	0.46
42:L5:254:LYS:HG2	42:L5:255:PRO:O	2.16	0.46
44:L7:33:ARG:O	44:L7:36:ALA:N	2.42	0.46
44:L7:60:ARG:NH2	85:5:516:A:O3'	303.84	0.46
44:L7:81:HIS:ND1	44:L7:81:HIS:N	2.63	0.46
44:L7:89:ILE:HA	44:L7:89:ILE:HD13	1.53	0.46
45:L8:181:LYS:HD2	38:8:155:A:OP1	152.16	0.46
45:L8:29:SER:O	45:L8:29:SER:OG	3.46	0.46
45:L8:57:ARG:HB3	45:L8:61:GLN:OE1	2.15	0.46
46:L9:67:ALA:HA	46:L9:70:THR:CG2	2.46	0.46
47:M0:24:ARG:O	47:M0:25:ALA:HB3	4.75	0.46
47:M0:29:SER:O	47:M0:31:ILE:N	2.47	0.46
48:M1:83:GLY:O	48:M1:86:VAL:N	2.83	0.46
50:M4:100:ALA:O	50:M4:103:ILE:HB	2.63	0.46
50:M4:78:THR:O	50:M4:81:VAL:HB	2.49	0.46
51:M5:23:GLN:HG2	51:M5:122:ASN:ND2	2.31	0.46
51:M5:150:TRP:O	51:M5:151:ILE:C	2.53	0.46
49:M3:25:HIS:CE1	51:M5:198:SER:HB2	2.51	0.46
56:N0:117:ARG:HG2	56:N0:117:ARG:H	1.84	0.46
57:N1:104:GLU:OE1	57:N1:108:ARG:NH1	2.48	0.46
66:O0:10:ILE:HD12	66:O0:10:ILE:O	2.14	0.46
68:O2:19:ARG:HG2	68:O2:20:HIS:N	2.30	0.46
70:O4:65:VAL:HG22	70:O4:66:SER:H	2.75	0.46
71:O5:41:LEU:O	71:O5:44:ILE:HG22	2.50	0.46
73:O7:84:SER:O	73:O7:85:LYS:HB3	4.01	0.46
2:S0:110:TYR:HA	2:S0:115:PHE:CD2	2.49	0.46
3:S1:128:LYS:HG3	3:S1:133:TYR:O	4.63	0.46
3:S1:176:VAL:HG13	3:S1:184:LEU:HD22	4.36	0.46
3:S1:81:PHE:CD2	3:S1:81:PHE:N	3.24	0.46
4:S2:90:THR:HG23	4:S2:92:ALA:H	1.80	0.46
5:S3:63:GLY:O	5:S3:67:ASN:ND2	5.59	0.46
6:S4:187:ARG:NH1	6:S4:245:LYS:NZ	2.62	0.46
7:S5:116:HIS:O	7:S5:120:ILE:HG13	2.27	0.46
8:S6:5:ILE:HD12	8:S6:16:PHE:CE2	2.50	0.46
8:S6:64:LYS:O	8:S6:65:GLN:C	2.53	0.46
10:S8:101:ILE:HD13	10:S8:168:CYS:HB2	2.72	0.46
11:S9:109:LEU:HB2	11:S9:146:PHE:CB	2.39	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:S9:132:ARG:HB3	11:S9:140:ILE:HD13	3.29	0.46
36:1:1070:U:C5	36:1:1071:U:C4	3.03	0.46
36:1:1294:A:N3	36:1:1295:G:C8	2.83	0.46
36:1:1343:A:C2	36:1:1362:G:C6	3.03	0.46
36:1:1362:G:H4'	44:L7:159:GLN:O	2.15	0.46
36:1:1371:G:O5'	36:1:1371:G:H8	1.99	0.46
36:1:1505:C:OP1	53:M7:23:ARG:NH2	2.48	0.46
36:1:2206:G:C2	36:1:2207:A:C8	3.04	0.46
36:1:2573:G:OP2	36:1:2573:G:C8	2.68	0.46
36:1:2590:A:H2'	36:1:2591:A:H8	1.79	0.46
36:1:572:A:H2'	36:1:573:C:O4'	2.15	0.46
36:1:846:A:H2'	36:1:847:A:O4'	2.15	0.46
36:1:821:U:O2'	36:1:912:G:OP1	2.28	0.46
1:2:1130:A:H2'	1:2:1131:C:H6	1.80	0.46
1:2:1314:A:H8	1:2:1314:A:O5'	1.99	0.46
1:2:1495:G:C6	1:2:1496:G:C6	3.04	0.46
1:2:386:G:C6	1:2:387:A:N6	2.83	0.46
54:M8:38:ARG:NH2	85:5:1347:U:H3'	188.95	0.46
85:5:1465:A:N6	85:5:1466:G:C2	2.83	0.46
85:5:1757:A:C2	85:5:1769:G:C2	3.04	0.46
85:5:176:G:H2'	85:5:177:U:H6	1.80	0.46
85:5:1875:G:C6	85:5:1876:U:C4	3.04	0.46
85:5:2300:G:O2'	85:5:2328:U:H1'	2.16	0.46
85:5:993:G:C5	85:5:2637:A:C2	3.03	0.46
85:5:2858:U:O2'	85:5:2887:A:N6	2.48	0.46
51:M5:172:ARG:NH1	85:5:30:G:OP1	107.36	0.46
85:5:3294:A:H2'	85:5:3295:A:O4'	2.16	0.46
97:5:3403:SPS:O1	97:5:3403:SPS:H91	2.14	0.46
85:5:384:A:H2'	85:5:385:A:C8	2.50	0.46
85:5:5:G:N1	38:8:155:A:C2	2.84	0.46
80:6:976:G:C6	80:6:1023:A:C4	3.03	0.46
80:6:109:G:H2'	80:6:110:U:O4'	2.14	0.46
80:6:1590:G:H2'	80:6:1591:C:H6	1.79	0.46
80:6:189:C:C2'	80:6:190:C:H5'	2.45	0.46
80:6:784:C:H2'	80:6:785:U:C6	2.51	0.46
80:6:877:G:H5'	80:6:937:C:H1'	1.98	0.46
80:6:950:C:H2'	80:6:951:A:C8	2.50	0.46
38:8:1:A:N3	38:8:2:A:C8	2.83	0.46
12:C0:24:LYS:HA	12:C0:63:TYR:HA	1.97	0.46
12:C0:76:LEU:HD22	12:C0:79:TYR:HB3	7.04	0.46
14:C2:126:TRP:HD1	14:C2:128:ALA:H	3.09	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:C5:90:ILE:HD13	17:C5:109:PRO:HA	2.12	0.46
17:C5:87:PRO:HA	17:C5:90:ILE:HG13	2.14	0.46
18:C6:10:PHE:CZ	80:6:1379:C:H5'	429.87	0.46
17:C5:118:GLU:O	20:C8:122:HIS:N	3.04	0.46
26:D4:41:ARG:NE	26:D4:55:VAL:O	2.79	0.46
27:D5:68:ARG:HD3	27:D5:68:ARG:HA	1.60	0.46
28:D6:4:LYS:HZ1	28:D6:92:ARG:NH1	2.95	0.46
39:L2:113:VAL:HG23	39:L2:166:ILE:HA	2.57	0.46
39:L2:174:ARG:O	79:Q3:69:TYR:OH	2.60	0.46
39:L2:50:HIS:CE1	39:L2:51:ASP:O	2.69	0.46
40:L3:92:TYR:CE1	40:L3:159:ARG:HD2	2.61	0.46
40:L3:344:THR:O	40:L3:344:THR:HG22	4.68	0.46
41:L4:205:PRO:HB3	41:L4:247:PHE:CD2	2.51	0.46
41:L4:42:VAL:O	41:L4:45:ASN:N	3.26	0.46
42:L5:21:ARG:C	42:L5:23:ARG:N	2.69	0.46
45:L8:95:ASN:OD1	45:L8:98:ARG:NE	2.48	0.46
46:L9:171:ASP:OD1	46:L9:173:ARG:HD3	2.14	0.46
46:L9:17:THR:HG21	50:M4:3:THR:HB	1.97	0.46
49:M3:159:VAL:HG11	64:N8:142:GLY:O	2.15	0.46
50:M4:49:PRO:O	50:M4:51:ALA:N	3.22	0.46
51:M5:145:ASP:C	51:M5:147:ARG:H	2.18	0.46
51:M5:178:HIS:C	51:M5:180:PHE:N	2.68	0.46
51:M5:16:SER:O	51:M5:20:ARG:HG3	2.15	0.46
51:M5:80:THR:O	51:M5:81:TYR:C	2.78	0.46
54:M8:34:THR:HG23	54:M8:49:LEU:HD21	1.96	0.46
55:M9:105:LEU:HD21	55:M9:139:VAL:HG12	6.84	0.46
57:N1:129:LYS:HB2	85:5:1098:A:C5'	252.05	0.46
57:N1:68:THR:HG23	57:N1:69:LYS:N	2.66	0.46
59:N3:10:LYS:O	59:N3:10:LYS:HG2	2.28	0.46
61:N5:73:MET:CE	61:N5:73:MET:HA	4.07	0.46
64:N8:118:ILE:HB	64:N8:119:PRO:HD2	2.66	0.46
66:O0:40:LYS:HD3	66:O0:93:LEU:O	2.15	0.46
67:O1:26:LYS:HE2	67:O1:64:VAL:HG21	3.07	0.46
78:Q2:22:GLN:O	78:Q2:74:CYS:HA	2.15	0.46
2:S0:184:LEU:HA	2:S0:184:LEU:HD13	4.06	0.46
3:S1:128:LYS:NZ	3:S1:132:ASP:HB3	2.29	0.46
3:S1:125:VAL:HG12	3:S1:137:ILE:HG23	5.45	0.46
3:S1:157:GLN:HB2	3:S1:160:HIS:ND1	2.31	0.46
4:S2:80:VAL:HA	4:S2:102:VAL:HG22	1.97	0.46
9:S7:9:LEU:HD21	9:S7:17:GLU:HB3	1.98	0.46
35:SM:35:ALA:HB1	35:SM:37:VAL:HG23	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:SR:220:ILE:N	34:SR:234:LEU:O	2.97	0.46
34:SR:82:SER:OG	34:SR:92:TRP:NE1	2.57	0.46
36:1:1212:A:C4	36:1:1213:G:C8	3.04	0.46
36:1:132:C:C2'	36:1:133:U:H5''	2.43	0.46
36:1:13:A:H5'	36:1:14:U:OP2	2.15	0.46
36:1:1635:G:N2	36:1:1638:A:OP2	2.40	0.46
36:1:1722:U:C4	36:1:1723:A:N7	2.84	0.46
36:1:1728:G:C6	66:O0:85:PHE:CZ	3.04	0.46
36:1:180:C:H6	36:1:180:C:O5'	1.99	0.46
36:1:2209:U:P	36:1:2209:U:H6	2.39	0.46
36:1:2358:A:H2'	36:1:2359:C:O4'	2.14	0.46
36:1:2376:G:C6	36:1:2377:G:C6	3.03	0.46
36:1:2837:A:N3	36:1:2850:G:C2	2.83	0.46
36:1:650:C:O2'	36:1:651:G:H5'	2.15	0.46
36:1:810:A:C6	36:1:811:U:C4	3.03	0.46
1:2:1647:C:N4	1:2:1720:G:H1	2.12	0.46
1:2:1783:U:H1'	1:2:1811:G:N2	2.29	0.46
1:2:388:G:OP1	1:2:402:C:H5	1.98	0.46
47:M0:194:GLY:CA	85:5:1010:G:H21	337.39	0.46
85:5:1238:C:H2'	85:5:1239:C:O4'	2.15	0.46
85:5:1349:G:H2'	85:5:1350:A:C8	2.49	0.46
85:5:1447:G:O2'	85:5:1448:U:P	2.74	0.46
85:5:1700:G:C6	85:5:1701:C:C4	3.04	0.46
85:5:1734:G:O6	92:5:3472:OHX:N5	2.48	0.46
85:5:2113:A:N7	85:5:2114:C:C4	2.83	0.46
85:5:2117:A:N7	85:5:3064:U:O2'	2.32	0.46
85:5:217:U:C2'	85:5:218:G:OP1	2.64	0.46
85:5:198:A:C6	85:5:219:A:C6	3.03	0.46
85:5:2207:A:H2'	85:5:2208:A:C4'	2.45	0.46
85:5:2220:A:N6	85:5:2221:G:C6	2.84	0.46
85:5:3181:C:H2'	85:5:3182:G:C8	2.50	0.46
85:5:337:G:N1	85:5:339:C:C4	2.84	0.46
85:5:1817:G:P	92:5:3683:OHX:N2	2.88	0.46
85:5:408:A:H2'	85:5:409:A:O4'	2.16	0.46
85:5:434:U:H2'	85:5:435:C:C6	2.50	0.46
85:5:498:A:C2	85:5:499:G:C5	3.04	0.46
85:5:513:G:C6	85:5:579:G:C6	3.04	0.46
85:5:58:G:HO2'	85:5:61:A:H5'	1.81	0.46
68:O2:47:ARG:HD2	85:5:634:C:O2'	213.90	0.46
80:6:1051:G:H5''	80:6:1052:U:OP2	2.15	0.46
80:6:1381:U:O2'	80:6:1382:A:H5'	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:1451:C:H2'	80:6:1452:U:C6	2.51	0.46
80:6:565:C:H5''	80:6:566:C:C5	2.51	0.46
38:8:57:C:O2'	38:8:58:G:H5'	2.16	0.46
15:C3:118:ILE:O	15:C3:122:ILE:HG13	2.14	0.46
3:S1:83:LYS:NZ	16:C4:116:GLU:OE2	2.27	0.46
17:C5:122:THR:HG21	80:6:1455:G:OP1	369.68	0.46
17:C5:33:PHE:CD2	17:C5:86:VAL:HG23	2.50	0.46
21:C9:76:LEU:HB3	21:C9:80:TYR:HE2	1.80	0.46
25:D3:23:ARG:HD2	25:D3:26:GLU:OE2	2.15	0.46
28:D6:70:LYS:HD3	80:6:930:A:H5''	313.49	0.46
40:L3:307:PRO:O	40:L3:310:GLY:N	2.48	0.46
41:L4:150:LEU:HD13	41:L4:249:ILE:HG23	1.96	0.46
42:L5:15:ARG:NH1	85:5:1003:A:H1'	289.13	0.46
43:L6:170:LYS:O	43:L6:171:PRO:C	2.53	0.46
44:L7:211:SER:O	44:L7:211:SER:OG	2.25	0.46
46:L9:25:VAL:HG12	46:L9:26:LYS:N	2.30	0.46
48:M1:150:ASN:O	48:M1:152:HIS:N	2.47	0.46
48:M1:91:LEU:HA	48:M1:91:LEU:HD23	1.69	0.46
49:M3:46:ILE:HG12	49:M3:49:ARG:NE	6.36	0.46
51:M5:68:ARG:HD2	51:M5:128:LYS:HG3	3.24	0.46
52:M6:12:LYS:HG2	52:M6:40:GLU:HB3	3.89	0.46
53:M7:107:LEU:HA	53:M7:107:LEU:HD12	1.74	0.46
56:N0:12:ARG:HB3	56:N0:24:LEU:CD2	2.78	0.46
56:N0:40:ARG:NH1	37:7:97:A:OP1	289.45	0.46
57:N1:88:ARG:NH2	65:N9:31:SER:HG	2.13	0.46
58:N2:17:VAL:HG22	58:N2:103:TYR:HB2	1.97	0.46
36:1:1629:U:O4	63:N7:111:LYS:HD2	2.15	0.46
63:N7:81:LEU:HD12	70:O4:93:PHE:CD2	3.56	0.46
69:O3:58:GLU:HB2	69:O3:63:LYS:HZ3	1.79	0.46
69:O3:9:VAL:HG23	69:O3:100:ILE:HB	4.36	0.46
36:1:157:A:C8	72:O6:26:ILE:HG12	2.50	0.46
73:O7:88:ALA:N	92:O7:102:OHX:N1	2.64	0.46
36:1:2907:G:H1'	76:Q0:100:TYR:CD2	2.50	0.46
2:S0:9:LEU:HD11	2:S0:14:ALA:HB2	1.97	0.46
2:S0:74:VAL:HG22	2:S0:96:THR:HG23	2.14	0.46
3:S1:148:ASN:OD1	3:S1:148:ASN:N	4.35	0.46
3:S1:32:ILE:HD11	3:S1:45:LYS:O	3.57	0.46
5:S3:136:VAL:HG22	5:S3:186:VAL:HG22	3.09	0.46
6:S4:34:GLY:HA3	6:S4:35:PRO:HD3	1.86	0.46
6:S4:38:LEU:HG	6:S4:39:ARG:N	4.85	0.46
7:S5:44:ASN:HB2	7:S5:46:TRP:CZ3	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:S6:94:ARG:HH21	80:6:407:A:P	290.98	0.46
10:S8:156:VAL:O	10:S8:159:GLN:HB2	3.25	0.46
11:S9:122:VAL:O	11:S9:125:ALA:N	3.25	0.46
35:SM:83:LYS:HB3	35:SM:84:LYS:H	2.36	0.46
36:1:1082:U:H5'	36:1:1083:G:OP2	2.15	0.46
36:1:1093:A:N3	36:1:1096:U:N3	2.63	0.46
36:1:1182:A:H2'	36:1:1183:C:C6	2.50	0.46
36:1:1288:U:H2'	36:1:1289:G:C8	2.48	0.46
36:1:1495:U:H5	36:1:1835:A:N1	2.13	0.46
36:1:1748:G:OP2	74:O8:42:LYS:NZ	2.44	0.46
36:1:1514:G:O6	36:1:1841:A:H2'	2.16	0.46
36:1:1489:A:C6	36:1:1854:C:N4	2.83	0.46
36:1:2207:A:N6	36:1:2208:A:H62	2.12	0.46
36:1:2973:G:N2	36:1:2974:U:H1'	2.30	0.46
36:1:342:A:N1	36:1:349:A:C8	2.84	0.46
36:1:688:G:C6	36:1:690:A:C5	3.04	0.46
36:1:830:A:OP1	92:1:3543:OHX:N3	2.48	0.46
1:2:1293:U:O2	1:2:1299:G:C2	2.69	0.46
1:2:1348:C:N4	1:2:1349:U:C4	2.83	0.46
1:2:1372:C:OP2	19:C7:45:ARG:HG2	2.16	0.46
1:2:263:C:O2'	1:2:292:U:O4'	2.28	0.46
1:2:330:G:H2'	1:2:331:A:C8	2.51	0.46
1:2:552:G:H2'	1:2:553:G:C8	2.51	0.46
85:5:1745:C:H2'	85:5:1746:U:C6	2.51	0.46
85:5:1813:A:H2'	85:5:1814:A:H5''	1.97	0.46
85:5:1820:U:O2'	85:5:1821:U:OP1	2.27	0.46
85:5:2724:U:C4	85:5:2725:U:C4	3.04	0.46
85:5:282:G:H3'	85:5:282:G:C8	2.50	0.46
85:5:2916:U:C4	85:5:2935:U:C2	3.04	0.46
85:5:2956:A:N6	85:5:2977:G:H21	2.13	0.46
67:O1:25:PHE:CD1	85:5:3056:U:C4	183.08	0.46
85:5:731:U:H2'	85:5:732:C:H6	1.80	0.46
85:5:94:G:H2'	85:5:95:A:H8	1.80	0.46
80:6:1636:C:C4	80:6:1765:A:N1	2.83	0.46
80:6:274:G:H1	80:6:282:C:H42	1.62	0.46
80:6:774:A:C4	80:6:775:G:H1'	2.50	0.46
14:C2:54:ARG:O	14:C2:56:GLU:N	2.43	0.46
15:C3:76:LYS:HA	15:C3:81:ALA:HB2	1.97	0.46
1:2:1166:A:N1	17:C5:99:GLY:HA3	2.31	0.46
18:C6:47:LYS:O	18:C6:50:GLU:HB2	2.16	0.46
19:C7:75:GLU:O	19:C7:79:GLU:HG2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S0:88:LYS:HE3	19:C7:82:ASP:OD2	2.14	0.46
22:D0:23:ARG:HB2	22:D0:92:ASP:OD1	2.16	0.46
23:D1:36:VAL:O	23:D1:51:VAL:N	2.72	0.46
25:D3:103:LEU:HD22	25:D3:104:LEU:N	2.31	0.46
25:D3:23:ARG:O	25:D3:26:GLU:HB2	2.46	0.46
31:D9:31:ILE:HA	31:D9:31:ILE:HD13	1.81	0.46
39:L2:24:GLN:H	39:L2:24:GLN:HG2	2.41	0.46
40:L3:216:ASP:OD2	40:L3:341:SER:HA	2.44	0.46
40:L3:361:THR:HG23	40:L3:371:GLN:O	2.83	0.46
41:L4:10:SER:C	41:L4:12:THR:H	2.20	0.46
41:L4:198:ARG:NH1	62:N6:12:ARG:NH1	3.16	0.46
41:L4:311:HIS:NE2	41:L4:314:LYS:HA	2.40	0.46
36:1:2557:A:C2	45:L8:38:GLN:HA	2.50	0.46
46:L9:48:VAL:HG22	46:L9:52:LEU:O	5.34	0.46
47:M0:62:SER:OG	47:M0:63:GLU:OE2	2.63	0.46
47:M0:69:ARG:O	47:M0:73:ASN:N	2.82	0.46
49:M3:189:GLU:O	49:M3:192:GLU:HG2	2.15	0.46
50:M4:21:VAL:HG23	50:M4:65:LEU:HD23	1.98	0.46
55:M9:6:THR:O	55:M9:10:LEU:HB2	2.15	0.46
56:N0:81:TYR:CE1	56:N0:90:MET:HE3	2.51	0.46
57:N1:124:VAL:HG12	57:N1:125:ALA:O	5.40	0.46
56:N0:57:GLU:CD	57:N1:139:ARG:HE	3.90	0.46
61:N5:88:MET:SD	61:N5:118:GLY:O	3.48	0.46
61:N5:24:LEU:HD22	61:N5:25:LYS:N	4.37	0.46
67:O1:48:ASP:O	67:O1:48:ASP:CG	4.15	0.46
68:O2:102:ALA:O	68:O2:105:ARG:HB2	2.16	0.46
74:O8:39:ARG:O	74:O8:41:THR:HG22	4.03	0.46
36:1:3107:U:P	76:Q0:114:LYS:NZ	2.89	0.46
3:S1:194:ASN:OD1	3:S1:194:ASN:N	2.61	0.46
4:S2:42:GLY:HA2	4:S2:68:ILE:HD11	1.97	0.46
6:S4:104:ASP:HB2	6:S4:108:ARG:H	2.43	0.46
6:S4:191:ARG:HD3	6:S4:245:LYS:CB	2.45	0.46
8:S6:185:GLN:HA	8:S6:188:ARG:NH1	2.30	0.46
1:2:271:A:N6	8:S6:185:GLN:OE1	2.37	0.46
9:S7:141:ARG:HH22	9:S7:143:LEU:HD11	1.81	0.46
9:S7:173:TYR:CD1	9:S7:181:ILE:HD11	4.69	0.46
10:S8:33:PRO:HA	80:6:331:A:H5'	276.33	0.46
20:C8:120:ARG:HD2	35:SM:58:GLU:OE1	2.47	0.46
35:SM:57:ASN:HA	35:SM:60:ALA:HB3	1.98	0.46
36:1:1374:G:C5	36:1:1375:G:C8	3.03	0.46
36:1:1573:G:N1	36:1:1574:C:H1'	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2220:A:N6	36:1:2221:G:C6	2.84	0.46
36:1:2611:U:H2'	36:1:2612:U:C6	2.50	0.46
36:1:306:A:C2	36:1:307:A:C8	3.04	0.46
1:2:288:A:H2'	1:2:289:U:C6	2.51	0.46
1:2:71:A:N3	1:2:81:G:C2	2.84	0.46
1:2:762:U:OP2	1:2:763:A:H2	1.98	0.46
1:2:884:G:N2	16:C4:54:GLU:OE1	2.47	0.46
38:4:103:G:OP2	38:4:105:A:O2'	2.33	0.46
54:M8:12:ARG:HA	85:5:1342:C:O3'	190.97	0.46
85:5:1561:G:H1	85:5:1578:C:H42	1.63	0.46
85:5:1632:A:H2'	85:5:1633:C:H6	1.81	0.46
85:5:1745:C:H2'	85:5:1746:U:H6	1.81	0.46
85:5:281:G:C6	85:5:282:G:C6	3.03	0.46
92:Q2:502:OHX:N2	85:5:45:A:OP1	156.71	0.46
57:N1:14:MET:HG3	85:5:993:G:H5''	252.49	0.46
80:6:1152:A:C2	80:6:1627:U:C2	3.03	0.46
80:6:1196:A:H4'	80:6:1197:C:C5'	2.45	0.46
80:6:1236:A:H2'	80:6:1237:G:C8	2.50	0.46
80:6:1334:U:H2'	80:6:1335:U:O4'	2.15	0.46
80:6:1729:C:N4	80:6:1730:A:C4	2.84	0.46
80:6:518:A:O2'	80:6:534:A:N6	2.47	0.46
80:6:581:U:H6	80:6:581:U:H3'	1.80	0.46
80:6:826:U:H2'	80:6:827:C:C6	2.50	0.46
14:C2:89:ILE:O	14:C2:89:ILE:HD13	5.37	0.46
17:C5:122:THR:HG1	80:6:1455:G:P	369.29	0.46
18:C6:38:LEU:O	18:C6:40:GLU:N	2.41	0.46
1:2:1323:U:O4	18:C6:9:THR:HA	2.15	0.46
19:C7:28:PHE:HA	19:C7:55:THR:HG21	3.50	0.46
20:C8:127:HIS:NE2	20:C8:133:VAL:HG21	2.31	0.46
20:C8:140:THR:HA	20:C8:143:ARG:NH1	2.67	0.46
20:C8:140:THR:OG1	20:C8:141:THR:HG23	2.51	0.46
2:S0:66:ALA:HB2	23:D1:37:ALA:HB2	2.62	0.46
1:2:150:U:P	26:D4:123:LYS:HZ3	2.39	0.46
33:E1:136:LYS:O	33:E1:138:ARG:N	2.97	0.46
40:L3:292:ALA:O	40:L3:293:ASN:C	2.93	0.46
40:L3:50:LYS:HG2	40:L3:332:ARG:HA	1.98	0.46
36:1:3049:A:C4	40:L3:75:ALA:HB2	2.50	0.46
41:L4:309:ARG:NH2	41:L4:312:VAL:HB	2.31	0.46
41:L4:42:VAL:C	41:L4:44:LYS:H	2.51	0.46
41:L4:69:ARG:O	41:L4:71:VAL:HG23	4.89	0.46
41:L4:94:CYS:O	41:L4:95:ARG:C	2.52	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:99:MET:SD	41:L4:102:PRO:HA	2.56	0.46
42:L5:163:LEU:O	42:L5:164:LYS:C	2.63	0.46
41:L4:342:LYS:NZ	44:L7:56:GLU:OE2	2.33	0.46
45:L8:122:LYS:C	45:L8:124:ASP:H	2.72	0.46
45:L8:142:LEU:O	45:L8:143:ILE:C	2.53	0.46
46:L9:67:ALA:HA	46:L9:70:THR:HG23	1.97	0.46
47:M0:98:ARG:NE	47:M0:119:TRP:CZ3	2.83	0.46
47:M0:74:LYS:C	47:M0:76:MET:H	3.67	0.46
47:M0:77:THR:C	47:M0:79:VAL:H	2.19	0.46
51:M5:191:TRP:O	51:M5:192:LYS:C	2.53	0.46
51:M5:193:ARG:C	51:M5:195:ASN:N	2.98	0.46
51:M5:38:ARG:HA	51:M5:62:TYR:CD1	2.66	0.46
52:M6:14:HIS:O	52:M6:41:LEU:HD12	2.36	0.46
53:M7:27:LYS:O	53:M7:30:ARG:HB3	3.01	0.46
54:M8:98:LYS:HE2	54:M8:119:GLY:HA2	3.64	0.46
54:M8:161:LYS:O	54:M8:162:ALA:CB	2.58	0.46
55:M9:159:ALA:HB1	55:M9:163:ARG:HH12	9.01	0.46
55:M9:81:ARG:HG2	55:M9:88:ARG:CZ	2.46	0.46
57:N1:49:GLN:HG2	85:5:2756:C:O4'	246.76	0.46
59:N3:86:ARG:HD2	59:N3:92:PHE:CZ	2.50	0.46
61:N5:53:HIS:ND1	61:N5:54:TYR:O	2.83	0.46
62:N6:103:LYS:HE2	85:5:221:A:H61	78.90	0.46
63:N7:80:LEU:HD23	63:N7:80:LEU:HA	2.19	0.46
54:M8:170:ARG:NH1	64:N8:56:VAL:O	3.62	0.46
64:N8:96:LYS:O	64:N8:98:THR:N	2.49	0.46
66:O0:54:SER:HA	66:O0:57:GLU:OE2	3.46	0.46
36:1:3059:G:H5'	67:O1:17:HIS:CE1	2.50	0.46
68:O2:77:ALA:HB3	68:O2:81:ASP:OD2	3.16	0.46
72:O6:79:SER:CB	72:O6:82:ARG:HG3	3.32	0.46
85:5:2405:C:O2'	98:P:101:8AN:N3'	211.73	0.46
2:S0:179:ARG:HH11	2:S0:183:ARG:CZ	2.48	0.46
2:S0:203:PHE:HB3	2:S0:204:TYR:H	2.19	0.46
3:S1:131:ASP:O	3:S1:133:TYR:N	2.49	0.46
4:S2:69:ILE:HD11	4:S2:133:LYS:HB3	1.97	0.46
5:S3:168:ILE:HD12	5:S3:187:LYS:HD3	6.43	0.46
5:S3:173:ARG:HB2	5:S3:184:ILE:HB	2.45	0.46
5:S3:191:ASP:OD2	5:S3:194:LYS:HE3	6.32	0.46
6:S4:195:ILE:HG22	6:S4:196:VAL:H	3.39	0.46
9:S7:142:TYR:O	24:D2:49:GLU:HB2	3.63	0.46
11:S9:51:LYS:O	11:S9:54:ARG:HB3	2.15	0.46
36:1:1105:A:C2	36:1:1106:G:C4	3.04	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1787:A:C5	36:1:1788:C:C6	3.03	0.46
36:1:2254:U:H2'	36:1:2261:G:N2	2.30	0.46
36:1:2836:C:H6	47:M0:158:LYS:HZ3	1.60	0.46
36:1:3009:G:C5	36:1:3010:U:C5	3.03	0.46
92:1:3603:OHX:N1	92:1:3714:OHX:N2	2.64	0.46
36:1:439:C:C5	36:1:440:A:C6	3.03	0.46
36:1:590:G:C2	36:1:610:G:H2'	2.50	0.46
36:1:829:U:H3	36:1:895:A:H62	1.62	0.46
1:2:1383:A:C6	1:2:1384:A:C6	3.04	0.46
1:2:243:G:N3	1:2:251:A:C2	2.84	0.46
1:2:61:A:H8	1:2:269:G:HO2'	1.64	0.46
1:2:362:G:C6	1:2:383:G:C6	3.04	0.46
1:2:399:A:C6	1:2:401:A:C6	3.04	0.46
1:2:38:C:H2'	1:2:39:A:H5'	1.96	0.46
1:2:889:A:C6	1:2:890:A:C6	3.04	0.46
37:3:28:C:N4	37:3:29:C:C2	2.84	0.46
92:4:217:OHX:N6	92:4:218:OHX:N2	2.63	0.46
85:5:1107:C:H2'	85:5:1108:U:H6	1.81	0.46
85:5:1491:A:H2'	85:5:1492:G:O4'	2.16	0.46
85:5:207:U:H2'	85:5:208:C:H6	1.80	0.46
85:5:2278:C:H2'	85:5:2279:A:H5''	1.97	0.46
85:5:251:G:C6	85:5:253:A:N6	2.84	0.46
85:5:2611:U:H2'	85:5:2612:U:C6	2.51	0.46
85:5:301:G:H2'	85:5:302:U:H6	1.80	0.46
85:5:3163:A:O2'	85:5:3164:C:H5'	2.15	0.46
85:5:659:G:N1	85:5:1432:C:O2	2.49	0.46
64:N8:55:LYS:HE3	85:5:93:C:C2	162.26	0.46
35:SM:83:LYS:NZ	80:6:1190:C:N3	341.52	0.46
80:6:700:C:H2'	80:6:701:U:C6	2.51	0.46
80:6:709:C:O2	80:6:730:G:C2	2.69	0.46
80:6:720:G:H4'	80:6:721:U:O5'	2.16	0.46
12:C0:34:GLU:O	12:C0:35:ILE:HB	4.70	0.46
14:C2:60:VAL:HG22	14:C2:122:VAL:HG22	2.64	0.46
18:C6:82:ARG:NH2	18:C6:116:LEU:HD21	2.30	0.46
20:C8:49:LYS:HE3	20:C8:80:LYS:O	4.67	0.46
23:D1:12:TYR:CE2	23:D1:14:PRO:HG3	2.51	0.46
23:D1:72:LEU:HD23	23:D1:72:LEU:HA	1.79	0.46
24:D2:89:TRP:O	24:D2:93:LEU:HD22	2.15	0.46
25:D3:33:LEU:HD23	25:D3:33:LEU:HA	1.47	0.46
28:D6:34:LYS:HB3	28:D6:35:ALA:H	3.57	0.46
1:2:1182:G:P	31:D9:40:ARG:HH21	2.39	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:L2:187:HIS:ND1	39:L2:190:ARG:NH1	4.66	0.46
40:L3:183:LEU:HD12	40:L3:183:LEU:HA	1.72	0.46
40:L3:221:THR:HG22	40:L3:222:LYS:O	2.16	0.46
40:L3:358:TRP:CH2	40:L3:360:ASP:HB2	2.65	0.46
41:L4:10:SER:O	41:L4:12:THR:N	2.64	0.46
41:L4:208:VAL:HG12	41:L4:230:VAL:HG13	2.39	0.46
41:L4:209:TYR:C	41:L4:254:ALA:HB2	3.01	0.46
41:L4:301:PRO:O	41:L4:302:ALA:HB3	4.64	0.46
41:L4:361:HIS:O	56:N0:28:ARG:NH2	2.44	0.46
42:L5:233:ALA:O	42:L5:236:LEU:HB2	2.95	0.46
42:L5:86:TYR:CD1	42:L5:247:ILE:HG12	3.23	0.46
42:L5:56:THR:OG1	42:L5:59:ASP:N	2.48	0.46
44:L7:47:ARG:O	44:L7:50:ALA:N	2.48	0.46
47:M0:45:GLU:HG2	47:M0:46:PHE:CE1	2.51	0.46
48:M1:110:ILE:HG22	48:M1:115:LYS:O	2.15	0.46
48:M1:91:LEU:HD12	48:M1:163:PHE:CZ	2.50	0.46
50:M4:21:VAL:HG21	50:M4:65:LEU:HD23	1.96	0.46
52:M6:55:HIS:O	52:M6:58:LEU:N	2.46	0.46
53:M7:29:THR:HA	53:M7:32:THR:CG2	2.33	0.46
53:M7:69:ARG:HD3	85:5:3308:C:O2	185.38	0.46
55:M9:42:ARG:HB2	55:M9:42:ARG:HE	1.55	0.46
58:N2:50:LEU:N	58:N2:50:LEU:HD23	2.31	0.46
59:N3:45:ARG:HG3	59:N3:46:LEU:N	3.27	0.46
62:N6:100:HIS:O	62:N6:101:PRO:C	2.54	0.46
62:N6:50:ILE:CD1	62:N6:70:ILE:HG13	4.38	0.46
63:N7:15:ARG:O	63:N7:19:ALA:HB2	2.15	0.46
67:O1:11:GLU:HG2	67:O1:74:ARG:HB2	1.97	0.46
67:O1:14:ILE:HD13	67:O1:14:ILE:HG21	2.27	0.46
67:O1:10:ARG:HH12	67:O1:44:MET:CG	4.37	0.46
68:O2:17:PHE:CD1	68:O2:53:PRO:HD3	2.51	0.46
72:O6:58:ILE:HA	72:O6:61:ILE:HD12	1.96	0.46
75:O9:49:MET:O	75:O9:50:ASN:HB2	2.22	0.46
79:Q3:45:LYS:HE3	79:Q3:45:LYS:HB2	1.71	0.46
2:S0:140:ASN:HD21	4:S2:60:SER:HB2	2.73	0.46
2:S0:30:GLN:NE2	2:S0:32:HIS:HB2	7.13	0.46
3:S1:55:LYS:HD3	3:S1:55:LYS:HA	2.26	0.46
5:S3:209:ILE:HA	5:S3:209:ILE:HD12	1.87	0.46
6:S4:206:ASP:HB2	6:S4:222:LEU:HD12	1.97	0.46
7:S5:61:TYR:CE2	7:S5:164:PRO:HG2	3.49	0.46
9:S7:49:ILE:HD12	9:S7:172:VAL:HA	2.12	0.46
10:S8:138:ASN:HD22	80:6:197:A:N6	278.55	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S8:171:SER:OG	10:S8:180:ASP:N	2.49	0.46
14:C2:55:GLY:N	35:SM:172:UNK:O	2.33	0.46
35:SM:31:SER:HA	36:1:2666:C:H4'	1.97	0.46
34:SR:192:PHE:HD1	34:SR:223:TRP:CE3	2.34	0.46
34:SR:43:ILE:HD13	34:SR:60:SER:HA	2.26	0.46
34:SR:78:ALA:O	34:SR:94:VAL:HG23	2.55	0.46
36:1:1409:G:N7	92:1:3599:OHX:N3	2.64	0.46
36:1:1596:C:H2'	36:1:1597:C:C6	2.50	0.46
36:1:1874:A:H5''	55:M9:18:GLY:HA3	1.96	0.46
36:1:2515:A:H61	36:1:2594:C:N4	2.13	0.46
36:1:2601:A:H2'	36:1:2602:G:C8	2.51	0.46
36:1:2729:U:H2'	36:1:2730:G:O4'	2.16	0.46
36:1:2743:A:H2'	36:1:2744:U:O4'	2.15	0.46
36:1:286:U:H2'	36:1:287:G:C8	2.51	0.46
36:1:3049:A:H2'	36:1:3050:U:O4'	2.16	0.46
36:1:3099:C:O2'	36:1:3100:U:H5'	2.16	0.46
36:1:3248:C:O5'	36:1:3248:C:H6	1.98	0.46
36:1:346:C:H1'	38:4:26:U:OP1	2.15	0.46
36:1:371:G:H4'	36:1:396:A:N1	2.31	0.46
36:1:527:A:N3	36:1:566:G:C2	2.83	0.46
36:1:956:U:H6	36:1:956:U:O5'	1.98	0.46
1:2:1141:C:N4	1:2:1146:A:H61	2.12	0.46
1:2:1219:A:H2'	1:2:1220:G:H8	1.80	0.46
1:2:1612:G:C6	1:2:1613:U:C4	3.04	0.46
1:2:1639:U:H5''	1:2:1640:U:O5'	2.15	0.46
1:2:142:G:C5	1:2:266:A:C6	3.03	0.46
1:2:325:G:C6	1:2:344:A:C6	3.03	0.46
1:2:342:C:N4	1:2:343:C:N4	2.64	0.46
1:2:375:U:H2'	1:2:376:C:H6	1.81	0.46
1:2:453:U:C6	1:2:453:U:O5'	2.68	0.46
1:2:528:U:H2'	1:2:529:A:C8	2.51	0.46
1:2:514:G:N1	1:2:543:C:H5	2.12	0.46
1:2:592:A:O2'	1:2:596:C:OP1	2.29	0.46
1:2:727:U:N3	1:2:791:U:O2	2.49	0.46
1:2:901:U:O3'	16:C4:18:ARG:NH1	2.49	0.46
37:3:61:G:H2'	37:3:62:U:C6	2.49	0.46
36:1:407:A:C4	38:4:17:A:H1'	2.50	0.46
38:4:89:A:H8	38:4:89:A:O5'	1.99	0.46
85:5:1611:G:H2'	85:5:1612:A:H8	1.81	0.46
85:5:166:C:H2'	85:5:167:U:H6	1.81	0.46
85:5:2215:A:H8	85:5:2215:A:O5'	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:2429:G:C2	85:5:2601:A:C2	3.04	0.46
85:5:2590:A:N1	85:5:2591:A:C5	2.84	0.46
85:5:2694:A:C6	85:5:2695:A:C6	3.04	0.46
85:5:2962:U:OP1	92:5:3702:OHX:N1	2.47	0.46
40:L3:75:ALA:HB2	85:5:3049:A:C2	244.82	0.46
85:5:3059:G:C6	85:5:3060:C:C4	3.04	0.46
85:5:3320:A:H2'	85:5:3321:C:C6	2.51	0.46
85:5:712:G:H2'	85:5:713:U:H6	1.74	0.46
85:5:737:G:C2	85:5:738:A:C5	3.04	0.46
80:6:1001:A:C6	80:6:1002:G:C6	3.03	0.46
80:6:1081:A:H1'	80:6:1082:C:H5	1.81	0.46
22:D0:72:ASN:HA	80:6:1198:G:O2'	386.13	0.46
80:6:381:C:H2'	80:6:382:C:H6	1.81	0.46
80:6:389:G:C6	80:6:390:G:C5	3.04	0.46
37:7:61:G:H2'	37:7:62:U:C6	2.50	0.46
12:C0:8:ARG:HG2	12:C0:79:TYR:OH	2.16	0.46
13:C1:17:PRO:HB2	13:C1:18:HIS:HD2	6.17	0.46
14:C2:59:LEU:HD23	14:C2:60:VAL:N	2.31	0.46
17:C5:92:SER:HB2	17:C5:107:ILE:HD11	5.83	0.46
17:C5:69:GLU:OE1	17:C5:70:ASN:N	4.91	0.46
19:C7:84:TYR:C	19:C7:85:VAL:HG13	2.36	0.46
26:D4:20:ARG:HD2	26:D4:74:LEU:HD22	2.35	0.46
26:D4:53:ASP:O	26:D4:79:VAL:HG22	2.72	0.46
32:E0:38:LEU:HD23	32:E0:42:ARG:HG3	1.98	0.46
39:L2:225:ILE:HG21	39:L2:234:LYS:HA	1.96	0.46
41:L4:141:ARG:CD	41:L4:141:ARG:N	2.75	0.46
41:L4:6:VAL:O	41:L4:20:LEU:N	2.47	0.46
42:L5:76:ALA:CB	42:L5:109:THR:HG22	2.45	0.46
43:L6:157:GLN:O	43:L6:160:SER:N	2.39	0.46
43:L6:30:LEU:HD13	43:L6:34:LEU:HD13	1.98	0.46
51:M5:166:ALA:O	51:M5:169:LYS:N	2.49	0.46
51:M5:8:GLU:HG2	51:M5:9:GLU:N	2.31	0.46
53:M7:4:TYR:HA	53:M7:18:ARG:NH2	2.31	0.46
54:M8:110:ALA:O	54:M8:114:ILE:HG13	3.01	0.46
54:M8:62:VAL:HB	54:M8:83:VAL:HG11	2.61	0.46
56:N0:106:LEU:HD22	56:N0:123:ILE:HD11	1.97	0.46
56:N0:16:THR:O	56:N0:19:VAL:N	3.56	0.46
59:N3:28:ASN:OD1	59:N3:28:ASN:N	2.80	0.46
60:N4:31:PHE:HZ	60:N4:40:PHE:CD1	2.44	0.46
61:N5:64:GLU:OE1	61:N5:85:GLN:NE2	3.46	0.46
62:N6:50:ILE:HD11	62:N6:70:ILE:HG13	4.18	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:N7:88:ASP:HB3	63:N7:121:ARG:HH21	1.80	0.46
63:N7:46:ILE:CD1	63:N7:68:ILE:HG23	2.42	0.46
64:N8:60:TYR:CZ	85:5:2777:G:N3	137.24	0.46
67:O1:12:TYR:O	67:O1:72:ARG:HD2	2.16	0.46
69:O3:39:GLN:O	69:O3:41:ALA:N	2.49	0.46
69:O3:93:THR:O	69:O3:96:ALA:CB	3.00	0.46
2:S0:131:GLN:O	2:S0:135:GLU:HB2	2.15	0.46
2:S0:75:ALA:HB1	2:S0:86:VAL:HG12	1.98	0.46
3:S1:231:LEU:HD13	3:S1:232:HIS:N	6.21	0.46
6:S4:250:GLU:HA	6:S4:253:ASP:OD2	3.68	0.46
7:S5:93:LEU:HD23	7:S5:172:ILE:HG23	2.68	0.46
8:S6:31:ARG:HA	8:S6:100:ALA:O	2.76	0.46
10:S8:87:ASN:OD1	10:S8:88:ASN:N	2.49	0.46
10:S8:89:GLU:HA	10:S8:92:ARG:CZ	4.84	0.46
34:SR:249:ARG:HD3	34:SR:251:TRP:CE2	2.51	0.46
36:1:2167:A:C6	36:1:2168:A:C6	3.04	0.46
36:1:246:U:H2'	36:1:247:C:C6	2.50	0.46
36:1:3071:U:C4	36:1:3072:C:C4	3.04	0.46
36:1:3216:G:O6	36:1:3259:U:H2'	2.16	0.46
36:1:3298:C:C2	36:1:3299:A:C8	3.03	0.46
36:1:535:G:O2'	36:1:554:A:N1	2.34	0.46
1:2:960:A:C2	1:2:1008:A:C2	3.04	0.46
1:2:1099:A:C2'	1:2:1100:U:H5'	2.45	0.46
1:2:1348:C:C4	1:2:1349:U:C5	3.04	0.46
1:2:472:U:H2'	1:2:473:A:C8	2.50	0.46
1:2:86:A:N3	1:2:147:A:H2	2.14	0.46
1:2:957:A:C2	1:2:958:C:C2	3.03	0.46
37:3:121:U:OP2	42:L5:265:TYR:OH	2.13	0.46
37:3:57:G:C8	37:3:58:C:C6	3.04	0.46
38:4:152:G:H2'	38:4:153:U:O4'	2.16	0.46
85:5:1106:G:H2'	85:5:1107:C:O4'	2.16	0.46
52:M6:60:LYS:NZ	85:5:1307:G:N3	249.16	0.46
85:5:1348:U:H5'	85:5:1349:G:OP1	2.16	0.46
85:5:172:G:H2'	85:5:172:G:N3	2.31	0.46
85:5:2294:U:O2	85:5:2296:A:C8	2.69	0.46
85:5:2533:G:C5	92:5:3541:OHX:N2	2.84	0.46
85:5:2582:C:OP1	92:5:3627:OHX:N3	2.49	0.46
85:5:995:U:H1'	85:5:2637:A:H5'	1.97	0.46
85:5:3016:A:H2'	85:5:3017:A:H8	1.80	0.46
85:5:3385:U:H2'	85:5:3386:G:H8	1.81	0.46
92:5:3576:OHX:N1	92:5:3634:OHX:N4	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:752:C:C2	85:5:753:C:C5	3.04	0.46
55:M9:92:GLN:HG3	85:5:856:G:OP2	220.61	0.46
80:6:1040:G:N2	80:6:1078:C:O2	2.29	0.46
80:6:1392:U:H2'	80:6:1393:C:C6	2.51	0.46
80:6:1584:G:O2'	80:6:1610:G:O6	2.29	0.46
80:6:168:A:N1	80:6:169:A:C6	2.84	0.46
92:6:1978:OHX:N6	92:6:2001:OHX:N4	2.64	0.46
80:6:422:G:O2'	80:6:423:G:H5'	2.16	0.46
80:6:42:G:O6	92:6:2052:OHX:N5	2.48	0.46
80:6:687:G:C2	80:6:688:G:C8	3.04	0.46
80:6:817:A:H2'	80:6:818:C:O4'	2.15	0.46
80:6:869:A:H2'	80:6:870:C:O4'	2.15	0.46
80:6:956:C:N4	80:6:957:G:O6	2.49	0.46
12:C0:46:LEU:HB3	12:C0:66:TYR:CE1	2.50	0.46
1:2:346:G:H5'	13:C1:79:LYS:HE2	1.98	0.46
14:C2:54:ARG:HD3	14:C2:56:GLU:CD	2.36	0.46
17:C5:10:ARG:O	17:C5:12:PHE:HB2	5.16	0.46
22:D0:69:LYS:HE3	22:D0:80:GLU:HG3	4.97	0.46
24:D2:86:ILE:HG13	24:D2:86:ILE:H	1.48	0.46
25:D3:30:LYS:O	25:D3:34:LEU:HG	2.16	0.46
13:C1:99:ARG:HD3	25:D3:8:GLY:O	2.68	0.46
26:D4:15:ASN:HD22	26:D4:22:GLN:NE2	3.19	0.46
27:D5:59:TYR:HE2	27:D5:61:SER:HB3	1.81	0.46
28:D6:10:ARG:CZ	28:D6:35:ALA:O	2.64	0.46
25:D3:90:ASP:OD2	32:E0:12:GLY:HA2	2.15	0.46
33:E1:134:ASN:HA	33:E1:138:ARG:O	2.15	0.46
39:L2:132:ASN:HD22	39:L2:151:PRO:HB3	1.79	0.46
41:L4:198:ARG:CZ	62:N6:12:ARG:HH12	3.72	0.46
37:3:27:A:OP2	42:L5:57:ASN:HB2	2.16	0.46
44:L7:129:LEU:HD23	44:L7:129:LEU:O	2.16	0.46
44:L7:158:LYS:HG2	44:L7:159:GLN:N	2.30	0.46
44:L7:203:TRP:CG	44:L7:204:PRO:HD2	2.71	0.46
45:L8:147:LYS:HE2	45:L8:147:LYS:HB3	1.83	0.46
45:L8:73:PRO:HD3	45:L8:233:TRP:CE2	2.51	0.46
46:L9:166:ARG:O	46:L9:167:VAL:C	3.56	0.46
47:M0:51:HIS:HB3	47:M0:134:ILE:HG23	1.97	0.46
48:M1:108:GLU:HA	48:M1:122:ILE:CG2	2.46	0.46
48:M1:59:ILE:HD12	48:M1:65:ILE:HD11	1.98	0.46
51:M5:24:ARG:NH1	51:M5:24:ARG:HG2	4.27	0.46
52:M6:65:ASN:C	52:M6:67:THR:H	2.26	0.46
53:M7:87:SER:O	53:M7:88:VAL:C	2.65	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:M8:175:ALA:O	54:M8:176:ARG:C	2.52	0.46
55:M9:84:THR:O	55:M9:88:ARG:HG2	4.06	0.46
62:N6:111:LEU:HD23	62:N6:111:LEU:HA	1.65	0.46
62:N6:57:LEU:HD23	62:N6:66:GLN:O	2.31	0.46
63:N7:33:SER:HB2	63:N7:40:HIS:CE1	2.51	0.46
63:N7:54:THR:HG23	63:N7:57:HIS:H	1.81	0.46
68:O2:5:PRO:O	68:O2:6:HIS:ND1	5.76	0.46
69:O3:39:GLN:C	69:O3:41:ALA:H	2.20	0.46
78:Q2:19:LYS:HA	85:5:2741:C:H4'	208.09	0.46
78:Q2:38:GLN:O	78:Q2:39:GLY:C	2.54	0.46
78:Q2:40:LYS:HG3	78:Q2:44:ASP:OD2	3.01	0.46
5:S3:137:VAL:HG22	5:S3:151:LYS:HE2	1.98	0.46
6:S4:252:ARG:HA	6:S4:255:ARG:HG2	6.91	0.46
8:S6:139:ASN:O	8:S6:143:LYS:N	2.48	0.46
8:S6:56:ASN:H	8:S6:108:VAL:HG23	4.94	0.46
9:S7:67:LEU:HD23	9:S7:67:LEU:HA	1.66	0.46
11:S9:168:ARG:NH1	11:S9:171:ARG:HD3	5.70	0.46
11:S9:7:THR:OG1	11:S9:8:TYR:N	3.54	0.46
34:SR:214:ALA:HB2	34:SR:220:ILE:HG12	1.98	0.46
34:SR:49:GLY:HA2	34:SR:54:PHE:HA	1.97	0.46
34:SR:7:LEU:HD11	34:SR:251:TRP:CZ3	2.51	0.46
36:1:1020:G:O6	36:1:1032:C:N4	2.32	0.46
36:1:1047:A:C6	36:1:1048:A:C6	3.03	0.46
36:1:1643:A:H2'	36:1:1644:C:C2	2.50	0.46
36:1:1508:C:C6	36:1:1880:U:H1'	2.51	0.46
36:1:2186:U:H5'	36:1:2314:U:OP2	2.16	0.46
36:1:198:A:C2	36:1:219:A:C2	3.04	0.46
36:1:2249:G:H3'	36:1:2249:G:C8	2.51	0.46
36:1:2631:U:O4	36:1:2648:G:C6	2.69	0.46
36:1:2940:A:N6	36:1:2943:G:C5	2.84	0.46
36:1:3176:G:N2	36:1:3213:A:H1'	2.31	0.46
36:1:3269:U:H4'	36:1:3270:U:O5'	2.16	0.46
92:1:3590:OHX:N5	92:3:204:OHX:N6	2.64	0.46
36:1:728:G:OP1	92:1:3635:OHX:N5	2.49	0.46
36:1:507:U:H2'	36:1:508:U:C6	2.51	0.46
36:1:551:A:C2	36:1:552:G:C4	3.04	0.46
36:1:646:A:H2'	36:1:647:A:O4'	2.16	0.46
36:1:761:A:C5	36:1:762:U:C5	3.04	0.46
36:1:867:G:C6	36:1:868:C:C4	3.04	0.46
1:2:1061:C:H2'	1:2:1062:U:C6	2.51	0.46
1:2:1181:G:C2	1:2:1183:G:C6	3.04	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:187:G:OP2	10:S8:142:LYS:NZ	2.45	0.46
36:1:406:G:N2	38:4:16:G:C4	2.84	0.46
85:5:100:A:O2'	85:5:101:G:H5'	2.16	0.46
85:5:1252:A:C5	85:5:1253:U:C5	3.04	0.46
85:5:2101:C:O2'	85:5:2102:U:P	2.74	0.46
85:5:2228:A:H2'	85:5:2229:A:C8	2.51	0.46
85:5:2647:A:C2'	85:5:2648:G:O5'	2.62	0.46
85:5:2655:U:H4'	85:5:2656:A:O4'	2.15	0.46
39:L2:215:ASN:HB2	85:5:2968:G:N7	216.39	0.46
85:5:3189:G:H2'	85:5:3190:C:H6	1.81	0.46
85:5:3207:U:H3'	85:5:3209:A:C2	2.48	0.46
85:5:3299:A:N6	85:5:3315:G:H1	2.11	0.46
92:5:3555:OHX:N3	92:5:3703:OHX:N4	2.65	0.46
85:5:556:U:C5	85:5:560:G:O6	2.69	0.46
85:5:765:C:H4'	85:5:766:U:OP2	2.16	0.46
80:6:1196:A:H1'	80:6:1602:C:O2'	2.15	0.46
80:6:149:C:H2'	80:6:150:U:C6	2.51	0.46
80:6:1533:C:H4'	80:6:1539:G:C6	2.51	0.46
10:S8:59:ARG:NH2	80:6:1678:A:OP1	253.27	0.46
80:6:289:U:C2	80:6:290:G:C8	3.04	0.46
80:6:489:C:O2'	80:6:490:C:O4'	2.31	0.46
80:6:992:A:OP1	92:6:1908:OHX:N5	2.48	0.46
37:7:23:A:H2'	37:7:24:A:C8	2.51	0.46
15:C3:64:ARG:HG3	15:C3:70:LYS:HD2	5.28	0.46
25:D3:65:ASN:ND2	80:6:575:C:H41	364.07	0.46
7:S5:109:LYS:HG3	27:D5:97:LYS:NZ	6.99	0.46
29:D7:64:CYS:HB2	29:D7:71:ALA:HB1	1.97	0.46
40:L3:116:ARG:NH1	40:L3:122:TRP:CD1	3.04	0.46
40:L3:260:VAL:HG12	85:5:2394:G:C4	212.12	0.46
41:L4:302:ALA:HB2	54:M8:39:ARG:NH1	2.29	0.46
41:L4:309:ARG:HH22	41:L4:312:VAL:HB	1.80	0.46
42:L5:240:TYR:O	42:L5:243:ALA:N	2.77	0.46
44:L7:77:VAL:HG23	44:L7:77:VAL:O	2.15	0.46
45:L8:94:PHE:HE1	45:L8:150:LEU:HD12	2.40	0.46
46:L9:109:ALA:O	46:L9:110:LYS:HB2	2.41	0.46
47:M0:148:VAL:O	47:M0:149:VAL:C	2.69	0.46
36:1:77:A:H5'	49:M3:100:ARG:NH1	2.31	0.46
50:M4:17:VAL:HG12	50:M4:72:LEU:HB3	1.97	0.46
51:M5:101:THR:HG22	51:M5:105:ARG:HE	2.82	0.46
51:M5:168:GLY:O	51:M5:171:SER:N	3.23	0.46
52:M6:136:THR:HG22	52:M6:137:THR:N	2.60	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:M6:41:LEU:HD23	52:M6:138:LEU:HD22	1.98	0.46
52:M6:46:GLU:O	52:M6:47:PHE:C	2.68	0.46
53:M7:47:TYR:HD1	53:M7:56:ARG:NH2	2.14	0.46
54:M8:13:SER:O	54:M8:15:HIS:N	3.51	0.46
57:N1:136:ARG:HG2	57:N1:136:ARG:H	1.50	0.46
59:N3:80:ARG:NE	59:N3:97:ASP:OD2	2.37	0.46
60:N4:54:LEU:HD13	60:N4:54:LEU:HA	4.03	0.46
61:N5:105:VAL:CG1	61:N5:126:LEU:HD22	2.37	0.46
63:N7:135:ARG:HH11	85:5:1807:G:H5'	194.17	0.46
63:N7:48:ARG:HB3	63:N7:69:LYS:HB3	1.98	0.46
68:O2:115:LEU:HA	68:O2:115:LEU:HD23	2.33	0.46
69:O3:39:GLN:C	69:O3:41:ALA:N	2.68	0.46
74:O8:31:LEU:HD23	74:O8:31:LEU:H	1.80	0.46
75:O9:43:ASN:OD1	75:O9:44:TRP:N	2.49	0.46
78:Q2:44:ASP:O	78:Q2:45:ARG:C	2.55	0.46
79:Q3:89:MET:O	79:Q3:91:GLU:N	4.72	0.46
7:S5:72:HIS:CD2	7:S5:107:LYS:HD3	3.33	0.46
9:S7:173:TYR:CE2	9:S7:177:THR:HG21	2.50	0.46
34:SR:146:GLY:HA3	34:SR:181:TRP:HH2	1.80	0.46
34:SR:297:ASP:O	34:SR:299:GLN:N	2.75	0.46
36:1:1076:C:O3'	65:N9:38:LYS:NZ	2.49	0.45
36:1:1439:U:H2'	36:1:1440:G:H8	1.81	0.45
36:1:1660:C:H2'	36:1:1661:G:H8	1.81	0.45
36:1:1706:C:H41	36:1:1738:C:H42	1.63	0.45
36:1:183:G:C2	36:1:184:U:C2	3.04	0.45
36:1:2223:A:C6	36:1:2224:A:C6	3.05	0.45
36:1:2707:C:H2'	36:1:2708:C:H6	1.81	0.45
36:1:39:A:C8	36:1:41:G:OP1	2.69	0.45
36:1:438:A:H2'	36:1:439:C:O4'	2.16	0.45
36:1:915:A:H2'	36:1:915:A:N3	2.30	0.45
1:2:1029:G:OP1	3:S1:157:GLN:NE2	2.47	0.45
1:2:1162:G:C5	1:2:1163:C:C4	3.04	0.45
1:2:1456:U:O4	7:S5:97:LEU:O	2.34	0.45
1:2:1458:A:H2'	1:2:1459:C:C6	2.51	0.45
1:2:1477:C:O2'	1:2:1478:C:H5'	2.17	0.45
1:2:1625:G:O3'	77:Q1:9:ARG:NH2	2.49	0.45
1:2:836:G:N7	55:M9:173:ARG:NH2	2.64	0.45
1:2:900:U:HO2'	16:C4:29:HIS:CE1	2.31	0.45
37:3:10:C:N3	42:L5:20:PHE:HB3	2.32	0.45
37:3:11:A:N6	42:L5:13:SER:O	2.44	0.45
37:3:19:C:H2'	37:3:20:A:H8	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:118:U:H2'	85:5:119:U:H5'	1.99	0.45
85:5:1939:G:C6	85:5:2110:G:O6	2.69	0.45
85:5:2420:C:C4	85:5:2421:U:C4	3.03	0.45
85:5:2527:G:N2	85:5:2584:G:C4	2.84	0.45
85:5:1901:A:O3'	85:5:2918:G:H5'	2.16	0.45
85:5:3282:U:H5'	85:5:3283:U:OP2	2.16	0.45
80:6:1297:G:N2	80:6:1300:A:OP2	2.44	0.45
80:6:1151:A:H4'	80:6:1766:A:C5	2.51	0.45
80:6:225:A:N1	80:6:226:A:N6	2.63	0.45
80:6:634:G:C4	80:6:966:A:C2	3.04	0.45
80:6:838:G:C6	80:6:839:U:C4	3.04	0.45
37:7:33:U:H6	37:7:33:U:O5'	1.99	0.45
38:8:120:C:H2'	38:8:121:U:H6	1.81	0.45
38:8:1:A:C4	38:8:2:A:C8	3.05	0.45
13:C1:127:GLN:HB2	13:C1:137:PHE:CE1	3.23	0.45
13:C1:5:LEU:O	13:C1:7:VAL:N	2.38	0.45
15:C3:12:SER:HG	80:6:956:C:H5	331.74	0.45
19:C7:31:ASN:H	19:C7:31:ASN:ND2	3.89	0.45
20:C8:14:ILE:HA	20:C8:22:VAL:O	2.15	0.45
2:S0:185:ARG:HG2	23:D1:45:ALA:O	5.24	0.45
24:D2:27:ILE:HG12	24:D2:61:ILE:HB	1.98	0.45
39:L2:213:GLY:HA3	85:5:2967:A:H5''	204.87	0.45
39:L2:226:SER:O	39:L2:229:ALA:N	2.98	0.45
40:L3:107:ALA:HA	40:L3:199:PHE:HD2	2.14	0.45
41:L4:156:LEU:O	41:L4:158:SER:N	2.92	0.45
42:L5:292:ALA:O	42:L5:294:ALA:N	2.48	0.45
43:L6:155:LEU:HA	43:L6:155:LEU:HD23	1.58	0.45
44:L7:200:ASN:OD1	44:L7:200:ASN:O	2.34	0.45
45:L8:108:ARG:NH1	85:5:121:A:C5	95.99	0.45
45:L8:175:VAL:HG13	45:L8:176:PRO:HD2	1.98	0.45
45:L8:42:PRO:HG2	45:L8:44:ARG:NE	4.23	0.45
47:M0:68:ALA:HA	47:M0:158:LYS:HG3	1.98	0.45
48:M1:19:LEU:HA	48:M1:126:ASP:O	2.35	0.45
48:M1:59:ILE:HG21	48:M1:65:ILE:HD11	1.97	0.45
48:M1:85:LYS:HE3	48:M1:85:LYS:HB2	1.74	0.45
50:M4:58:ILE:O	50:M4:58:ILE:HG23	2.16	0.45
51:M5:122:ASN:O	51:M5:129:TYR:HB2	2.57	0.45
51:M5:160:GLU:HG2	51:M5:161:ALA:N	2.30	0.45
51:M5:2:GLY:N	72:O6:36:ARG:HH22	3.88	0.45
51:M5:38:ARG:HG3	51:M5:39:ALA:N	4.69	0.45
51:M5:96:ARG:CG	51:M5:96:ARG:HH11	3.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:M7:62:ARG:O	53:M7:64:ASN:N	2.57	0.45
57:N1:42:ILE:HD12	57:N1:60:LYS:O	3.10	0.45
58:N2:39:ASP:OD2	58:N2:39:ASP:N	2.49	0.45
59:N3:74:MET:HE2	59:N3:74:MET:HB3	4.53	0.45
59:N3:84:SER:HA	59:N3:94:TYR:HB3	2.12	0.45
63:N7:87:LEU:HD13	63:N7:127:ASN:CG	2.37	0.45
64:N8:28:HIS:CE1	64:N8:32:ARG:CZ	2.99	0.45
67:O1:11:GLU:HG3	67:O1:109:VAL:HG21	2.59	0.45
69:O3:85:PHE:O	92:O3:201:OHX:N2	3.86	0.45
76:Q0:101:ALA:O	76:Q0:103:LEU:HG	2.60	0.45
76:Q0:99:CYS:HB2	76:Q0:114:LYS:HD3	1.97	0.45
2:S0:163:ASN:O	2:S0:165:ARG:HD3	6.42	0.45
3:S1:214:LYS:HG2	3:S1:215:VAL:N	3.48	0.45
6:S4:139:VAL:HB	6:S4:150:PRO:HG3	1.97	0.45
7:S5:148:ARG:HD2	7:S5:155:ALA:HB1	1.98	0.45
7:S5:187:ILE:HG22	27:D5:63:SER:HB3	1.96	0.45
8:S6:154:ARG:HD2	8:S6:178:LEU:HD21	1.97	0.45
1:2:786:A:C2	9:S7:104:ARG:HG3	2.51	0.45
34:SR:256:THR:N	34:SR:259:GLY:O	2.80	0.45
36:1:1158:A:C8	36:1:1158:A:O5'	2.68	0.45
36:1:1461:A:H2'	36:1:1462:A:C8	2.52	0.45
36:1:158:G:H1	36:1:263:C:N4	2.13	0.45
36:1:161:G:C5	36:1:162:G:N7	2.84	0.45
36:1:2292:U:N3	36:1:2293:C:N4	2.64	0.45
36:1:2445:A:N6	36:1:2502:A:H2	2.13	0.45
36:1:348:A:N3	36:1:352:A:O2'	2.50	0.45
36:1:364:G:OP1	41:L4:60:THR:HG23	2.16	0.45
36:1:43:A:N6	36:1:2803:A:C5	2.84	0.45
36:1:604:G:C2	36:1:605:U:C2	3.04	0.45
1:2:1023:G:C2	1:2:1024:G:C4	3.04	0.45
1:2:1655:G:N2	1:2:1656:G:C2	2.83	0.45
1:2:549:G:C6	1:2:550:A:N7	2.84	0.45
1:2:615:A:N3	1:2:616:G:C8	2.85	0.45
1:2:625:C:H2'	1:2:626:U:C6	2.52	0.45
37:3:113:C:C4	37:3:114:U:C4	3.04	0.45
85:5:1088:U:C2	85:5:1089:G:C8	3.05	0.45
85:5:1696:A:H61	85:5:1748:G:H2'	1.81	0.45
85:5:2180:G:C6	85:5:2181:C:N4	2.84	0.45
64:N8:60:TYR:CZ	85:5:2777:G:C4	137.11	0.45
85:5:2903:A:H2'	85:5:2904:U:O4'	2.16	0.45
85:5:2999:U:H2'	85:5:3000:A:C8	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:1171:G:C6	92:5:3506:OHX:N1	2.84	0.45
92:5:3578:OHX:N4	92:5:3718:OHX:N2	2.65	0.45
85:5:725:G:H1	85:5:745:C:H42	1.64	0.45
80:6:104:A:OP2	80:6:308:C:N4	2.50	0.45
80:6:1079:U:H2'	80:6:1080:U:C6	2.51	0.45
80:6:1481:C:H4'	80:6:1482:C:OP1	2.16	0.45
80:6:1653:C:N4	80:6:1654:G:C6	2.84	0.45
80:6:1699:G:C2'	80:6:1700:C:H5'	2.46	0.45
80:6:63:G:H4'	80:6:170:U:C5	2.52	0.45
80:6:1734:U:N3	80:6:1735:U:C5	2.84	0.45
80:6:25:C:H4'	80:6:25:C:OP2	2.15	0.45
80:6:417:A:H4'	80:6:418:G:O5'	2.15	0.45
80:6:626:U:H2'	80:6:627:C:H6	1.80	0.45
11:S9:54:ARG:NH2	80:6:761:G:OP1	393.34	0.45
80:6:775:G:N2	80:6:786:C:C2	2.84	0.45
37:7:1:G:C2	37:7:2:G:C5	3.05	0.45
38:8:59:A:C2	38:8:61:A:C2	3.04	0.45
38:8:79:A:H2'	38:8:80:A:O4'	2.16	0.45
12:C0:23:ALA:O	12:C0:24:LYS:HB3	4.54	0.45
15:C3:64:ARG:O	15:C3:68:GLY:HA2	2.16	0.45
20:C8:45:LEU:HD21	20:C8:81:ILE:HG12	1.98	0.45
24:D2:44:HIS:CE1	24:D2:101:TYR:CZ	3.49	0.45
24:D2:9:ASP:HB3	80:6:1036:A:O2'	361.20	0.45
16:C4:114:ARG:HE	28:D6:62:TYR:HE1	1.64	0.45
30:D8:9:LEU:HB3	30:D8:33:LEU:HG	6.81	0.45
33:E1:144:CYS:HB3	33:E1:147:VAL:N	2.31	0.45
39:L2:128:ARG:HA	39:L2:169:ILE:CD1	2.47	0.45
39:L2:87:PHE:O	39:L2:88:ILE:HD12	2.16	0.45
40:L3:316:GLU:O	40:L3:317:ILE:HB	2.16	0.45
40:L3:356:LEU:H	40:L3:356:LEU:HG	2.04	0.45
41:L4:308:LYS:HG2	41:L4:309:ARG:N	2.91	0.45
42:L5:195:LEU:O	42:L5:195:LEU:HD12	2.95	0.45
42:L5:61:ILE:HA	42:L5:79:TYR:HD1	2.79	0.45
46:L9:112:ILE:HG21	46:L9:161:LEU:HD11	1.98	0.45
46:L9:94:TYR:CD2	46:L9:98:PRO:HA	2.90	0.45
48:M1:94:ARG:C	48:M1:96:PHE:H	2.18	0.45
51:M5:178:HIS:C	51:M5:180:PHE:H	2.20	0.45
51:M5:46:ASP:O	51:M5:50:ARG:CZ	2.64	0.45
51:M5:36:ILE:HG12	51:M5:64:VAL:HG23	2.56	0.45
53:M7:108:ASP:O	53:M7:109:ALA:C	2.86	0.45
55:M9:168:ALA:O	55:M9:172:ARG:HB2	2.74	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:N0:155:ARG:HB3	56:N0:155:ARG:HH21	3.08	0.45
57:N1:7:TYR:CE2	57:N1:54:HIS:HD2	2.34	0.45
59:N3:38:ALA:O	59:N3:58:VAL:HB	2.17	0.45
60:N4:47:ARG:HE	60:N4:54:LEU:HD23	1.81	0.45
73:O7:66:TYR:O	73:O7:68:LYS:N	3.40	0.45
73:O7:8:PHE:O	73:O7:11:ARG:HG3	2.15	0.45
77:Q1:3:ALA:O	77:Q1:7:LYS:N	2.42	0.45
78:Q2:77:CYS:SG	78:Q2:79:THR:CG2	3.04	0.45
2:S0:179:ARG:HB3	2:S0:180:GLU:OE1	5.27	0.45
1:2:1128:U:O2'	4:S2:89:GLN:O	2.28	0.45
6:S4:170:THR:OG1	6:S4:171:ASP:N	2.48	0.45
6:S4:28:ALA:C	80:6:448:C:H5'	367.75	0.45
6:S4:73:ASP:OD1	6:S4:89:VAL:N	2.49	0.45
8:S6:49:VAL:HB	8:S6:115:LYS:HG2	4.66	0.45
8:S6:69:LEU:N	8:S6:101:ILE:HD12	2.69	0.45
9:S7:43:PHE:HB2	9:S7:61:PHE:O	2.16	0.45
10:S8:31:ARG:HE	80:6:332:U:H5''	291.93	0.45
11:S9:25:ASP:O	11:S9:28:LEU:N	2.86	0.45
11:S9:81:VAL:HG23	11:S9:86:LEU:HD23	1.99	0.45
34:SR:152:SER:O	34:SR:153:GLN:NE2	2.44	0.45
36:1:1056:U:H2'	36:1:1057:A:O4'	2.16	0.45
36:1:1904:C:H2'	36:1:1905:G:H5'	1.98	0.45
36:1:2201:G:C6	36:1:2202:C:N3	2.84	0.45
36:1:2319:U:O2'	36:1:2320:A:C8	2.69	0.45
36:1:2419:A:N1	36:1:2420:C:C4	2.84	0.45
36:1:2652:U:C5	36:1:2653:C:C4	3.04	0.45
36:1:2772:C:H4'	36:1:2773:C:O5'	2.17	0.45
36:1:2838:A:N6	36:1:2850:G:H1'	2.31	0.45
36:1:3179:U:H3'	36:1:3180:A:H5'	1.99	0.45
36:1:3182:G:C6	36:1:3183:A:C5	3.05	0.45
36:1:3350:C:H2'	36:1:3351:U:H3'	1.99	0.45
36:1:795:G:O6	92:1:3431:OHX:N3	2.49	0.45
36:1:3152:U:O2	92:1:3679:OHX:N4	2.49	0.45
36:1:3:U:C2	36:1:4:U:C6	3.04	0.45
36:1:725:G:C2	36:1:746:A:C2	3.04	0.45
1:2:1514:G:H5'	27:D5:81:ARG:NH2	2.32	0.45
1:2:1134:A:H4'	1:2:1749:A:N7	2.32	0.45
1:2:416:A:H4'	1:2:417:A:OP2	2.16	0.45
1:2:703:G:H1'	1:2:704:U:H5''	1.98	0.45
1:2:73:U:O2'	1:2:74:U:C5	2.70	0.45
1:2:74:U:O2'	1:2:75:U:H5'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:832:C:N3	1:2:833:A:C8	2.84	0.45
1:2:882:G:H4'	16:C4:46:MET:HG2	1.97	0.45
1:2:992:U:H2'	1:2:993:C:H6	1.82	0.45
1:2:995:U:C4	1:2:996:A:N7	2.84	0.45
85:5:1146:C:H2'	85:5:1147:G:C8	2.51	0.45
85:5:1225:A:C5	85:5:1226:G:N7	2.85	0.45
85:5:1556:C:H2'	85:5:2169:G:C2	2.50	0.45
85:5:1783:U:H2'	85:5:1784:G:H8	1.81	0.45
85:5:1796:G:O6	92:5:3732:OHX:N5	2.49	0.45
85:5:2405:C:O2	85:5:2819:A:N1	2.49	0.45
78:Q2:63:LYS:NZ	85:5:2761:G:N7	211.29	0.45
85:5:2819:A:HO2'	85:5:2820:A:H5'	1.82	0.45
85:5:2962:U:O4	85:5:2963:C:N4	2.49	0.45
85:5:3155:U:C6	92:5:3730:OHX:N4	2.84	0.45
85:5:597:G:H2'	85:5:598:A:C8	2.49	0.45
85:5:807:A:C2	85:5:808:A:C8	3.04	0.45
85:5:965:A:C6	85:5:966:U:C4	3.04	0.45
85:5:981:U:C6	85:5:981:U:H3'	2.50	0.45
80:6:1011:G:H8	80:6:1011:G:O5'	1.99	0.45
80:6:1449:U:H2'	80:6:1450:U:C6	2.52	0.45
80:6:17:C:C2	80:6:18:C:C5	3.04	0.45
92:6:1978:OHX:N5	92:6:2001:OHX:N1	2.65	0.45
80:6:453:U:O2	80:6:453:U:H2'	2.16	0.45
9:S7:96:ARG:HB3	80:6:856:A:C6	364.02	0.45
1:2:1224:G:H5'	17:C5:102:PHE:CZ	2.51	0.45
17:C5:128:HIS:HB3	80:6:1460:A:C8	328.35	0.45
18:C6:100:GLN:O	18:C6:104:GLU:HG3	2.50	0.45
7:S5:76:ARG:HD2	18:C6:122:ARG:NE	2.31	0.45
20:C8:123:ARG:HG3	20:C8:133:VAL:HG22	4.26	0.45
1:2:1085:G:P	24:D2:76:SER:HG	2.39	0.45
1:2:523:G:H5''	26:D4:59:GLY:O	2.15	0.45
20:C8:5:VAL:O	27:D5:42:LEU:HB2	3.66	0.45
27:D5:71:ILE:HG23	27:D5:73:GLY:N	6.53	0.45
30:D8:58:GLU:HB3	30:D8:61:ARG:HG3	7.72	0.45
32:E0:28:LYS:HG2	32:E0:29:LYS:O	3.25	0.45
39:L2:225:ILE:HD12	39:L2:225:ILE:N	2.46	0.45
39:L2:70:ARG:NH2	85:5:2522:G:O6	176.49	0.45
41:L4:182:LEU:C	41:L4:184:SER:H	2.19	0.45
41:L4:237:GLN:O	41:L4:246:ARG:NE	2.99	0.45
42:L5:116:ASP:OD2	42:L5:117:GLU:N	4.50	0.45
42:L5:296:GLN:C	42:L5:297:GLN:OE1	5.44	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:L5:40:HIS:HE1	42:L5:42:ALA:HB3	2.18	0.45
43:L6:132:ALA:O	43:L6:136:GLU:HG2	2.16	0.45
43:L6:172:HIS:CD2	69:O3:40:ASP:HB3	2.51	0.45
44:L7:100:ARG:CZ	54:M8:4:ASP:OD1	2.65	0.45
44:L7:202:LEU:HD23	44:L7:202:LEU:HA	1.64	0.45
44:L7:80:GLN:HB2	57:N1:135:PRO:HB2	1.97	0.45
45:L8:156:ASP:OD1	45:L8:183:LYS:HG2	2.16	0.45
45:L8:139:VAL:HG21	45:L8:197:VAL:CG2	2.47	0.45
45:L8:53:PRO:HD2	45:L8:56:VAL:HG21	1.98	0.45
46:L9:57:VAL:HG13	46:L9:64:HIS:CE1	2.64	0.45
47:M0:135:ILE:HG21	47:M0:159:PHE:CE2	2.51	0.45
48:M1:171:VAL:HG13	48:M1:172:LEU:H	1.82	0.45
36:1:412:G:O2'	53:M7:119:VAL:O	2.24	0.45
36:1:1635:G:O6	63:N7:17:ARG:HB2	2.17	0.45
64:N8:105:LEU:O	64:N8:108:GLY:N	2.45	0.45
68:O2:124:GLY:O	68:O2:126:LEU:HB2	4.06	0.45
53:M7:169:THR:N	69:O3:60:ARG:HH11	2.08	0.45
70:O4:30:LEU:HA	70:O4:30:LEU:HD23	1.51	0.45
72:O6:25:LYS:HB2	72:O6:28:TYR:HD2	2.12	0.45
73:O7:17:THR:HG23	75:O9:51:ILE:CD1	2.45	0.45
73:O7:67:LEU:O	73:O7:67:LEU:HD22	3.27	0.45
75:O9:45:ARG:NH1	85:5:1841:A:O2'	130.73	0.45
75:O9:9:ILE:HD12	75:O9:51:ILE:HG12	1.98	0.45
76:Q0:112:LYS:NZ	85:5:3107:U:P	304.74	0.45
2:S0:101:ARG:HG3	2:S0:102:PHE:N	2.28	0.45
2:S0:105:GLY:O	2:S0:108:THR:O	2.58	0.45
2:S0:29:VAL:HG13	2:S0:30:GLN:H	3.88	0.45
2:S0:80:THR:HA	2:S0:83:GLN:HE21	4.77	0.45
3:S1:28:GLU:HG3	3:S1:50:LYS:HG3	6.85	0.45
3:S1:70:LEU:HD13	3:S1:79:HIS:ND1	5.15	0.45
5:S3:30:ALA:C	5:S3:32:GLU:H	2.19	0.45
6:S4:105:VAL:HG22	6:S4:105:VAL:O	2.45	0.45
7:S5:30:PRO:HD2	7:S5:33:VAL:HG11	1.98	0.45
9:S7:136:VAL:O	9:S7:136:VAL:HG12	2.17	0.45
36:1:1278:A:HO2'	36:1:1279:C:C5'	2.27	0.45
36:1:1496:C:H6	36:1:1496:C:O5'	2.00	0.45
36:1:1945:A:H2'	36:1:1946:A:H8	1.81	0.45
36:1:198:A:C2	36:1:219:A:N3	2.84	0.45
36:1:23:A:H2'	36:1:24:G:C8	2.49	0.45
36:1:3191:G:H2'	36:1:3192:U:O4'	2.17	0.45
36:1:3356:G:O2'	36:1:3357:U:H5'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:521:A:C6	36:1:572:A:C2	3.04	0.45
36:1:535:G:C4	36:1:554:A:C6	3.04	0.45
36:1:72:C:C2	36:1:74:G:H1'	2.51	0.45
1:2:1181:G:C6	1:2:1183:G:N1	2.84	0.45
1:2:1388:G:C2	1:2:1389:A:C5	3.04	0.45
1:2:357:G:OP2	92:2:1938:OHX:N6	2.49	0.45
1:2:545:A:H4'	1:2:546:U:OP1	2.16	0.45
85:5:1127:G:N2	85:5:1130:A:OP2	2.48	0.45
85:5:1190:A:C5	85:5:1193:A:H1'	2.51	0.45
85:5:1217:A:C2	85:5:1289:G:C5	3.05	0.45
85:5:1317:A:C2	85:5:1319:G:C5	3.04	0.45
85:5:199:A:C4	85:5:201:A:C8	3.04	0.45
39:L2:221:LYS:O	85:5:2245:C:H4'	218.63	0.45
85:5:3189:G:H2'	85:5:3190:C:O4'	2.17	0.45
85:5:3289:G:C6	92:5:3600:OHX:N5	2.85	0.45
85:5:637:C:C2	85:5:638:C:C5	3.04	0.45
85:5:764:U:H2'	85:5:765:C:H2'	1.98	0.45
85:5:983:A:C2	85:5:985:U:O4	2.69	0.45
80:6:1068:C:C2	80:6:1069:A:C8	3.04	0.45
80:6:11:A:C2'	80:6:12:U:H5'	2.46	0.45
80:6:121:U:H2'	80:6:122:U:O4'	2.16	0.45
80:6:1639:C:OP1	92:6:2007:OHX:N5	2.50	0.45
80:6:217:A:C8	80:6:218:A:C8	3.05	0.45
80:6:326:G:C2	80:6:343:C:O2	2.69	0.45
6:S4:186:GLY:HA3	80:6:753:A:OP1	368.12	0.45
80:6:760:A:H2'	80:6:761:G:O4'	2.16	0.45
80:6:778:G:C6	80:6:783:G:C6	3.04	0.45
80:6:824:G:N1	80:6:825:U:O4	2.50	0.45
80:6:95:G:H5'	80:6:96:G:OP2	2.16	0.45
12:C0:4:PRO:O	12:C0:8:ARG:HB2	3.61	0.45
13:C1:109:VAL:HG11	13:C1:125:VAL:HG21	2.60	0.45
15:C3:94:LYS:O	15:C3:97:SER:HB3	3.30	0.45
19:C7:96:SER:HA	19:C7:97:ASN:HA	1.62	0.45
21:C9:106:GLN:HE21	80:6:1500:C:P	417.62	0.45
21:C9:52:GLY:HA2	21:C9:55:TYR:CE2	2.51	0.45
24:D2:23:ARG:HG3	24:D2:65:LEU:O	4.38	0.45
25:D3:97:ASP:N	25:D3:100:ASP:OD2	4.22	0.45
28:D6:12:LYS:HD2	28:D6:16:GLY:H	4.98	0.45
28:D6:87:ARG:CZ	28:D6:92:ARG:HA	2.98	0.45
29:D7:34:ASP:O	29:D7:79:PHE:HA	2.50	0.45
39:L2:188:LYS:O	39:L2:192:LYS:HG3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:L1:2550:U:C5	39:L2:40:TYR:CE1	3.05	0.45
40:L3:113:GLU:OE2	40:L3:167:ARG:HG2	2.18	0.45
40:L3:300:ARG:NH1	40:L3:300:ARG:HB3	5.10	0.45
41:L4:138:ARG:HH11	41:L4:138:ARG:HD3	1.65	0.45
41:L4:174:ALA:O	41:L4:175:HIS:C	2.55	0.45
41:L4:289:ILE:O	41:L4:292:SER:N	2.44	0.45
42:L5:30:TYR:O	42:L5:31:TYR:C	2.53	0.45
42:L5:53:VAL:CG1	42:L5:159:VAL:HG23	3.41	0.45
42:L5:72:ASP:OD1	37:7:7:G:O2'	270.69	0.45
45:L8:123:GLN:O	45:L8:125:ALA:N	4.12	0.45
46:L9:174:LYS:O	46:L9:176:LEU:HG	2.17	0.45
48:M1:37:LEU:HD23	48:M1:37:LEU:HA	2.07	0.45
49:M3:143:ALA:O	49:M3:146:PRO:HD3	2.16	0.45
49:M3:67:ARG:H	49:M3:67:ARG:HG3	1.37	0.45
50:M4:101:LYS:O	50:M4:104:ALA:N	2.99	0.45
50:M4:72:LEU:HD23	50:M4:73:PRO:HD2	1.98	0.45
51:M5:149:ASN:O	51:M5:150:TRP:C	2.53	0.45
52:M6:62:THR:O	52:M6:63:ALA:C	2.77	0.45
53:M7:27:LYS:HG2	53:M7:63:PHE:CD2	2.52	0.45
53:M7:48:LEU:O	53:M7:49:GLU:C	2.54	0.45
54:M8:84:VAL:C	54:M8:104:LEU:HD12	2.37	0.45
54:M8:170:ARG:C	54:M8:172:PHE:H	2.32	0.45
56:N0:100:VAL:HG12	56:N0:101:ALA:N	2.80	0.45
56:N0:148:LEU:HD12	56:N0:149:LYS:H	1.79	0.45
58:N2:95:PHE:C	58:N2:95:PHE:CD2	2.90	0.45
61:N5:35:PRO:O	61:N5:36:LYS:C	2.89	0.45
66:O0:20:SER:OG	66:O0:96:GLY:HA3	2.16	0.45
43:L6:10:TYR:CG	68:O2:88:HIS:CE1	3.19	0.45
73:O7:72:ARG:O	73:O7:75:LYS:N	2.48	0.45
73:O7:18:LEU:HD21	75:O9:51:ILE:HG23	1.98	0.45
76:Q0:96:CYS:HA	76:Q0:121:LEU:HD23	1.98	0.45
79:Q3:56:THR:HG22	79:Q3:63:THR:CG2	2.47	0.45
4:S2:106:ASP:O	4:S2:107:SER:OG	2.60	0.45
4:S2:203:LYS:O	4:S2:206:THR:OG1	2.26	0.45
5:S3:124:ARG:O	5:S3:128:GLU:HB2	2.16	0.45
5:S3:151:LYS:HE3	5:S3:151:LYS:HB2	1.79	0.45
6:S4:50:ASN:HB3	6:S4:51:ARG:HH21	3.07	0.45
7:S5:63:GLN:HG3	7:S5:88:PRO:HA	1.98	0.45
10:S8:166:TYR:O	10:S8:183:ILE:HD12	6.61	0.45
11:S9:172:VAL:HG13	11:S9:175:ARG:HH21	1.80	0.45
34:SR:176:LYS:HG2	34:SR:197:SER:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:SR:264:SER:HB2	34:SR:271:VAL:HG23	1.97	0.45
36:1:1009:A:OP2	92:1:3624:OHX:N1	2.49	0.45
36:1:1520:G:C2	36:1:1521:G:C4	3.04	0.45
36:1:1597:C:H2'	36:1:1598:G:H8	1.81	0.45
36:1:1636:U:H5''	63:N7:73:LYS:HZ2	1.80	0.45
36:1:198:A:O4'	36:1:218:G:C2	2.70	0.45
36:1:22:G:C6	36:1:23:A:C5	3.04	0.45
36:1:250:U:C5	36:1:251:G:C8	3.05	0.45
36:1:2881:C:H2'	36:1:2882:U:H6	1.80	0.45
36:1:3017:A:C2	36:1:3038:U:N3	2.84	0.45
36:1:3277:U:C5	53:M7:175:ARG:NH1	2.85	0.45
36:1:386:A:H2'	36:1:387:A:O4'	2.16	0.45
36:1:411:U:H2'	36:1:412:G:H8	1.82	0.45
1:2:1111:C:H2'	1:2:1112:U:O4'	2.17	0.45
1:2:1810:A:H8	1:2:1810:A:O5'	2.00	0.45
1:2:346:G:N7	92:2:2005:OHX:N1	2.64	0.45
1:2:749:U:H3'	1:2:751:C:OP2	2.17	0.45
1:2:812:A:H2	1:2:813:U:H3	1.64	0.45
1:2:986:A:H4'	1:2:987:U:O5'	2.16	0.45
36:1:407:A:C2	38:4:17:A:H1'	2.51	0.45
38:4:52:A:H61	75:O9:35:ILE:HD12	1.82	0.45
85:5:1341:U:H2'	85:5:1342:C:C6	2.52	0.45
63:N7:67:LYS:NZ	85:5:1630:U:OP1	197.70	0.45
85:5:1856:C:H2'	85:5:1857:C:H6	1.81	0.45
55:M9:18:GLY:HA3	85:5:1874:A:H5''	135.78	0.45
85:5:71:A:C2	85:5:2778:G:H1'	2.51	0.45
85:5:3200:G:C6	85:5:3201:C:C4	3.04	0.45
85:5:3010:U:OP2	92:5:3653:OHX:N4	2.49	0.45
85:5:438:A:C8	85:5:439:C:C5	3.05	0.45
85:5:525:C:H2'	85:5:526:C:H6	1.82	0.45
85:5:537:A:H1'	85:5:557:A:O2'	2.15	0.45
80:6:1398:U:H3'	80:6:1399:C:H4'	1.97	0.45
80:6:1716:C:O2'	80:6:1717:G:OP2	2.29	0.45
80:6:189:C:H2'	80:6:190:C:H5'	1.99	0.45
92:6:1970:OHX:N5	92:6:2031:OHX:N3	2.64	0.45
80:6:158:U:O4	80:6:420:A:H4'	2.17	0.45
80:6:453:U:O2	80:6:453:U:C2'	2.64	0.45
80:6:615:A:C2	80:6:616:G:C8	3.05	0.45
80:6:808:U:H2'	80:6:809:A:C8	2.52	0.45
85:5:998:A:O2'	37:7:103:A:N3	2.47	0.45
14:C2:89:ILE:HG12	14:C2:90:LYS:H	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:C7:46:LEU:HD23	19:C7:46:LEU:HA	2.01	0.45
19:C7:82:ASP:O	19:C7:83:GLN:NE2	2.41	0.45
20:C8:42:TYR:CE2	20:C8:73:MET:HG3	4.50	0.45
20:C8:83:ALA:O	20:C8:86:LEU:HB2	3.29	0.45
21:C9:23:GLN:HG2	21:C9:55:TYR:CE2	2.51	0.45
21:C9:5:SER:HG	21:C9:66:TYR:HH	1.59	0.45
6:S4:59:ARG:NH1	26:D4:87:PRO:HG3	2.32	0.45
27:D5:88:ILE:HG22	27:D5:89:ILE:HG23	2.08	0.45
29:D7:82:LYS:HB2	29:D7:82:LYS:HE3	4.33	0.45
41:L4:325:LEU:HD23	41:L4:325:LEU:HA	1.54	0.45
42:L5:148:ILE:HD11	42:L5:159:VAL:CG1	2.87	0.45
42:L5:277:LEU:HA	42:L5:277:LEU:HD12	1.77	0.45
42:L5:280:GLU:CD	42:L5:280:GLU:H	2.20	0.45
42:L5:68:THR:O	42:L5:69:ILE:C	2.78	0.45
44:L7:228:SER:HA	44:L7:232:ARG:HH21	2.64	0.45
45:L8:244:ALA:O	45:L8:248:LYS:HB2	2.90	0.45
46:L9:112:ILE:HB	46:L9:126:VAL:HB	2.16	0.45
46:L9:49:ASN:C	46:L9:51:GLN:H	2.15	0.45
48:M1:46:VAL:HG13	48:M1:68:HIS:CE1	2.52	0.45
49:M3:168:ARG:O	49:M3:168:ARG:HG3	3.19	0.45
50:M4:16:GLU:OE1	50:M4:19:ARG:NH1	2.45	0.45
50:M4:41:GLN:HG2	56:N0:143:PHE:HZ	1.80	0.45
51:M5:49:ARG:HA	51:M5:53:TYR:HB3	1.98	0.45
53:M7:95:LEU:HD23	53:M7:95:LEU:HA	1.96	0.45
58:N2:36:TYR:CD1	58:N2:40:HIS:CE1	3.50	0.45
59:N3:11:PHE:HB2	59:N3:88:ARG:NH1	2.32	0.45
67:O1:46:THR:HG21	67:O1:91:SER:OG	2.16	0.45
1:2:867:A:H4'	3:S1:124:ASN:ND2	2.31	0.45
3:S1:41:ARG:HH22	3:S1:232:HIS:CD2	3.61	0.45
6:S4:230:GLU:O	6:S4:233:LYS:N	2.50	0.45
11:S9:102:GLU:O	11:S9:105:LEU:N	3.40	0.45
11:S9:78:ARG:NH1	80:6:764:U:OP2	418.62	0.45
34:SR:278:PHE:CE1	34:SR:287:PRO:HD2	2.52	0.45
34:SR:52:GLN:HG2	34:SR:53:LYS:H	2.02	0.45
36:1:1026:A:C6	36:1:1027:A:C6	3.04	0.45
36:1:1045:C:O2'	36:1:1046:A:H5'	2.17	0.45
36:1:1132:C:N3	36:1:1133:A:N7	2.65	0.45
36:1:1383:G:H4'	41:L4:240:PRO:HB2	1.99	0.45
36:1:1547:G:C2	36:1:1548:C:C4	3.04	0.45
36:1:1742:U:C2	36:1:1743:G:C8	3.05	0.45
36:1:1752:A:H2'	36:1:1753:G:O4'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:200:C:H4'	36:1:201:A:OP2	2.16	0.45
36:1:2145:A:C2	36:1:2146:C:C5	3.04	0.45
36:1:2197:C:H4'	36:1:2198:A:H8	1.82	0.45
36:1:2624:G:C2	36:1:2644:C:N4	2.85	0.45
36:1:3005:A:C2	36:1:3140:G:N3	2.85	0.45
36:1:3164:C:H1'	36:1:3165:A:H5'	1.99	0.45
1:2:1117:C:H2'	1:2:1118:U:O4'	2.15	0.45
1:2:1189:U:OP1	92:2:1940:OHX:N6	2.50	0.45
1:2:1513:C:H2'	1:2:1514:G:O4'	2.17	0.45
1:2:1750:G:OP1	1:2:1753:U:H4'	2.17	0.45
1:2:448:C:H2'	1:2:449:C:H6	1.82	0.45
1:2:453:U:H2'	1:2:454:U:H5''	1.99	0.45
1:2:765:U:H4'	1:2:766:G:OP2	2.17	0.45
1:2:839:A:N6	9:S7:96:ARG:HB3	2.31	0.45
1:2:957:A:N3	1:2:957:A:H2'	2.31	0.45
37:3:67:G:O5'	37:3:67:G:H8	2.00	0.45
85:5:1000:C:C2	85:5:1045:C:N4	2.85	0.45
85:5:1062:A:H5''	85:5:1063:G:H5'	1.97	0.45
85:5:1105:A:N1	85:5:1106:G:C4	2.85	0.45
85:5:1289:G:H2'	85:5:1290:A:C8	2.51	0.45
85:5:1514:G:C6	85:5:1841:A:C5	3.05	0.45
85:5:1646:G:C2	85:5:1808:G:C4	3.05	0.45
85:5:1666:G:C6	85:5:1667:A:C5	3.05	0.45
85:5:2194:G:C6	85:5:2195:C:C4	3.05	0.45
85:5:2213:A:H2'	85:5:2214:A:C8	2.51	0.45
85:5:2997:G:N7	92:5:3686:OHX:N4	2.64	0.45
54:M8:93:ILE:HG23	85:5:784:A:C6	150.19	0.45
85:5:855:U:C4	85:5:856:G:C6	3.05	0.45
85:5:945:C:H2'	85:5:946:U:C6	2.51	0.45
85:5:970:A:O5'	85:5:970:A:C8	2.65	0.45
85:5:998:A:O2'	85:5:999:G:H5'	2.16	0.45
80:6:1107:G:C6	80:6:1108:G:C6	3.05	0.45
31:D9:45:GLU:CD	80:6:1433:G:H22	409.98	0.45
80:6:165:G:H2'	80:6:166:C:H5''	1.99	0.45
80:6:426:G:C2	80:6:427:C:C2	3.04	0.45
32:E0:28:LYS:HZ1	80:6:542:A:H61	426.39	0.45
80:6:710:U:H1'	80:6:729:G:H22	1.82	0.45
80:6:776:G:N2	80:6:785:U:O2	2.50	0.45
38:8:31:G:H2'	38:8:32:C:C6	2.52	0.45
14:C2:62:LEU:HA	14:C2:120:VAL:HA	1.98	0.45
3:S1:71:ALA:HB3	16:C4:114:ARG:NH1	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:C4:17:ALA:O	16:C4:81:VAL:HA	4.92	0.45
17:C5:121:ILE:HD13	17:C5:123:TYR:H	5.18	0.45
18:C6:79:TYR:HA	18:C6:82:ARG:HD3	1.98	0.45
18:C6:93:HIS:HA	18:C6:97:VAL:HG12	1.97	0.45
18:C6:95:LYS:HE3	18:C6:96:TYR:OH	2.16	0.45
26:D4:18:LEU:HD13	26:D4:20:ARG:NH1	3.65	0.45
26:D4:27:VAL:HG12	26:D4:29:HIS:HD2	2.27	0.45
27:D5:43:ASP:HB2	27:D5:46:LYS:CD	2.47	0.45
31:D9:19:ARG:HD2	31:D9:32:ARG:HD2	1.97	0.45
32:E0:30:PRO:HB2	32:E0:34:ALA:HB3	1.98	0.45
33:E1:143:LYS:O	33:E1:145:HIS:N	2.50	0.45
33:E1:97:LYS:HD3	80:6:1232:U:H5	434.67	0.45
39:L2:241:ARG:O	39:L2:242:ARG:HB3	2.35	0.45
41:L4:188:ARG:NH2	41:L4:197:ARG:HB3	2.74	0.45
41:L4:138:ARG:NE	41:L4:240:PRO:HD2	2.30	0.45
44:L7:102:VAL:HG12	44:L7:130:ILE:HD11	3.65	0.45
44:L7:83:LEU:HD11	44:L7:116:PHE:CD1	2.52	0.45
44:L7:173:LEU:HB3	44:L7:178:ILE:HB	2.61	0.45
44:L7:56:GLU:O	44:L7:57:THR:C	2.50	0.45
45:L8:136:LEU:O	45:L8:137:ASN:C	2.55	0.45
45:L8:67:ILE:HG22	45:L8:237:ILE:HB	1.97	0.45
45:L8:45:ASN:OD1	61:N5:26:VAL:HA	2.16	0.45
45:L8:53:PRO:O	45:L8:56:VAL:HB	2.16	0.45
46:L9:85:GLY:O	46:L9:186:PHE:HA	2.40	0.45
47:M0:157:TYR:HB3	85:5:2836:C:H1'	307.36	0.45
48:M1:133:ARG:NH2	48:M1:158:ASP:OD2	2.50	0.45
48:M1:36:VAL:HG12	48:M1:37:LEU:HD23	1.98	0.45
48:M1:99:THR:O	48:M1:154:THR:OG1	2.34	0.45
50:M4:38:ILE:O	56:N0:95:ARG:NH2	3.38	0.45
36:1:268:A:N7	51:M5:12:ARG:NH1	2.65	0.45
51:M5:194:GLN:H	51:M5:194:GLN:HG2	1.83	0.45
52:M6:116:LYS:HG3	52:M6:117:ARG:N	2.31	0.45
52:M6:23:VAL:O	52:M6:27:LEU:HG	2.17	0.45
53:M7:18:ARG:NH2	53:M7:147:GLU:OE1	2.49	0.45
55:M9:23:TRP:CH2	55:M9:25:ASP:HA	3.57	0.45
56:N0:43:TYR:OH	56:N0:47:LYS:HE2	3.36	0.45
56:N0:13:ARG:HE	56:N0:51:VAL:HG13	2.23	0.45
60:N4:23:ARG:NH2	60:N4:25:ASP:OD2	2.50	0.45
61:N5:65:GLN:O	61:N5:85:GLN:N	2.77	0.45
61:N5:67:ILE:CD1	61:N5:115:ARG:HH21	2.28	0.45
62:N6:5:SER:C	62:N6:7:ASP:N	3.43	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:N7:55:LYS:NZ	92:5:3696:OHX:N3	196.13	0.45
64:N8:14:HIS:CE1	68:O2:36:LYS:HE2	2.52	0.45
64:N8:87:ARG:O	64:N8:91:LEU:HD22	2.16	0.45
67:O1:55:LEU:C	67:O1:55:LEU:HD13	2.37	0.45
67:O1:74:ARG:HH12	67:O1:109:VAL:HG11	1.80	0.45
72:O6:80:PHE:O	72:O6:84:LYS:HG3	2.98	0.45
2:S0:56:LYS:HD2	2:S0:158:VAL:HG23	1.97	0.45
4:S2:141:ARG:H	4:S2:141:ARG:HG2	1.80	0.45
4:S2:90:THR:HG22	4:S2:93:GLY:O	2.16	0.45
5:S3:115:ILE:HD11	5:S3:138:VAL:HG21	1.99	0.45
5:S3:162:GLN:CD	5:S3:165:ASN:HD22	2.20	0.45
5:S3:20:GLU:OE2	5:S3:76:ARG:NH2	3.64	0.45
7:S5:48:PHE:CG	7:S5:67:PRO:HB3	2.52	0.45
9:S7:63:PRO:HD2	9:S7:66:SER:OG	2.16	0.45
10:S8:165:LEU:HD23	10:S8:165:LEU:HA	2.11	0.45
10:S8:26:LYS:O	10:S8:26:LYS:HG2	3.96	0.45
10:S8:9:HIS:ND1	10:S8:10:LYS:N	2.65	0.45
11:S9:23:ARG:HH11	11:S9:27:GLU:CD	2.64	0.45
36:1:1583:A:H3'	36:1:1584:U:C6	2.50	0.45
36:1:1885:U:H4'	36:1:1886:A:OP1	2.17	0.45
36:1:2208:A:H4'	36:1:2209:U:OP1	2.17	0.45
36:1:2326:A:H2'	36:1:2326:A:N3	2.32	0.45
36:1:2836:C:H5	36:1:2852:C:N4	2.12	0.45
36:1:2837:A:N3	36:1:2850:G:N2	2.63	0.45
36:1:3392:U:H2'	36:1:3393:U:H6	1.82	0.45
36:1:2208:A:C2	92:1:3577:OHX:N4	2.84	0.45
36:1:527:A:C2	36:1:566:G:C2	3.05	0.45
36:1:594:U:H3	41:L4:304:GLN:HE22	1.65	0.45
1:2:960:A:C6	1:2:1008:A:C4	3.05	0.45
1:2:1156:C:H2'	1:2:1157:C:C6	2.51	0.45
1:2:1244:G:H2'	1:2:1245:U:C6	2.51	0.45
1:2:1293:U:C2	1:2:1299:G:C2	3.05	0.45
1:2:1389:A:C6	1:2:1390:U:C4	3.05	0.45
1:2:1768:U:H2'	1:2:1769:G:H8	1.82	0.45
1:2:330:G:C2	1:2:331:A:C4	3.05	0.45
1:2:613:G:H4'	1:2:614:C:OP1	2.16	0.45
1:2:810:C:H2'	1:2:811:U:O4'	2.15	0.45
1:2:935:A:OP1	15:C3:94:LYS:HG3	2.16	0.45
85:5:1265:U:O2	85:5:1277:C:H1'	2.17	0.45
85:5:345:G:P	85:5:1429:G:H22	2.39	0.45
85:5:1632:A:C2	85:5:1633:C:C4	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:1867:A:N6	85:5:1868:G:C6	2.85	0.45
85:5:2279:A:C2	85:5:2288:G:C2	3.05	0.45
85:5:2396:G:OP1	85:5:2397:A:O2'	2.32	0.45
85:5:178:U:H1'	85:5:241:G:N1	2.32	0.45
85:5:2528:G:N2	85:5:2583:C:C2	2.84	0.45
67:O1:25:PHE:CE1	85:5:3056:U:C5	185.66	0.45
85:5:3231:U:H2'	85:5:3232:G:H8	1.82	0.45
40:L3:21:ARG:NH2	85:5:3309:G:O6	198.47	0.45
85:5:852:U:H2'	85:5:853:G:H8	1.82	0.45
80:6:1071:U:H2'	80:6:1072:C:C6	2.51	0.45
80:6:1133:A:H2'	80:6:1134:C:O4'	2.17	0.45
80:6:1429:G:H2'	80:6:1430:U:C6	2.52	0.45
80:6:1600:A:H1'	80:6:1601:G:H5''	1.97	0.45
80:6:228:G:H1	80:6:236:A:H61	1.62	0.45
80:6:292:U:H2'	80:6:293:U:C6	2.52	0.45
80:6:341:A:C5	80:6:342:C:C5	3.05	0.45
80:6:483:A:H61	80:6:504:U:H3	1.65	0.45
80:6:599:A:C5	80:6:600:U:C4	3.04	0.45
37:7:54:U:H4'	37:7:55:A:O5'	2.15	0.45
12:C0:55:VAL:HA	12:C0:69:THR:HG23	2.26	0.45
13:C1:125:VAL:HG13	13:C1:137:PHE:HB3	1.99	0.45
14:C2:31:VAL:HG23	14:C2:132:GLU:HB2	1.97	0.45
16:C4:84:ARG:HG3	16:C4:119:THR:HA	1.98	0.45
22:D0:101:LYS:O	22:D0:104:THR:OG1	3.34	0.45
24:D2:6:VAL:CG1	24:D2:29:PRO:HD2	2.40	0.45
25:D3:54:LEU:HA	25:D3:54:LEU:HD23	2.07	0.45
7:S5:120:ILE:HG12	27:D5:100:ILE:HD11	1.98	0.45
28:D6:74:CYS:SG	28:D6:77:CYS:SG	3.14	0.45
29:D7:75:GLU:HB3	29:D7:76:GLY:H	1.73	0.45
33:E1:87:THR:O	80:6:1445:G:N1	377.45	0.45
39:L2:168:VAL:HG23	39:L2:168:VAL:O	2.87	0.45
39:L2:216:HIS:O	39:L2:218:HIS:N	2.51	0.45
39:L2:64:ARG:HH22	45:L8:38:GLN:HA	2.74	0.45
47:M0:56:GLU:N	47:M0:131:ILE:HG12	2.30	0.45
49:M3:156:ALA:HB1	64:N8:99:ALA:N	2.32	0.45
51:M5:27:VAL:HB	51:M5:122:ASN:HD21	2.26	0.45
44:L7:110:ARG:NH1	54:M8:3:ILE:HD12	3.43	0.45
57:N1:57:TYR:CD1	57:N1:76:ILE:HG21	2.88	0.45
58:N2:50:LEU:CB	58:N2:54:VAL:HG23	2.46	0.45
65:N9:36:ASP:O	65:N9:37:PRO:C	2.90	0.45
68:O2:43:ARG:HG2	68:O2:43:ARG:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
72:O6:53:TYR:HA	72:O6:56:ARG:HB2	3.23	0.45
72:O6:86:LYS:HD3	72:O6:86:LYS:HA	2.37	0.45
72:O6:89:GLU:O	72:O6:93:ILE:HG12	2.17	0.45
79:Q3:3:LYS:HB3	79:Q3:3:LYS:HE2	1.72	0.45
79:Q3:56:THR:OG1	79:Q3:57:CYS:N	3.26	0.45
79:Q3:75:ALA:O	79:Q3:79:VAL:HG23	2.16	0.45
79:Q3:77:ALA:HA	79:Q3:80:ARG:NH2	2.30	0.45
2:S0:102:PHE:CZ	2:S0:106:SER:HB2	2.52	0.45
2:S0:9:LEU:HD23	2:S0:54:TRP:CG	2.50	0.45
3:S1:117:TRP:N	80:6:932:U:OP2	325.04	0.45
3:S1:62:LYS:HD2	3:S1:91:VAL:HB	1.98	0.45
4:S2:113:LEU:C	4:S2:113:LEU:HD22	2.37	0.45
4:S2:55:GLU:OE2	4:S2:239:PRO:HG3	3.50	0.45
6:S4:126:VAL:CG2	6:S4:156:VAL:HA	3.52	0.45
6:S4:241:GLY:O	6:S4:244:ILE:HG12	2.16	0.45
7:S5:25:LEU:N	7:S5:25:LEU:HD22	2.31	0.45
9:S7:143:LEU:CD2	9:S7:149:ILE:HD12	3.52	0.45
36:1:1012:G:C2	36:1:1013:G:C4	3.05	0.45
36:1:1323:G:O3'	56:N0:2:ALA:HA	2.17	0.45
36:1:1643:A:H3'	36:1:1644:C:C6	2.52	0.45
36:1:2208:A:O3'	36:1:2209:U:H6	2.00	0.45
36:1:2962:U:OP1	92:1:3418:OHX:N4	2.50	0.45
36:1:3208:G:C5	36:1:3210:A:C2	3.05	0.45
36:1:3226:A:N3	36:1:3260:G:C2	2.85	0.45
36:1:390:G:H2'	36:1:391:A:O4'	2.16	0.45
36:1:497:C:H2'	36:1:498:A:O4'	2.17	0.45
36:1:945:C:H2'	36:1:946:U:C6	2.51	0.45
1:2:1089:U:H2'	1:2:1090:G:H8	1.81	0.45
1:2:1162:G:C6	1:2:1163:C:C4	3.05	0.45
1:2:1332:G:H2'	1:2:1333:U:H6	1.82	0.45
1:2:1577:G:N2	1:2:1586:U:O2	2.50	0.45
1:2:54:C:O2'	1:2:459:G:N7	2.40	0.45
38:4:67:U:H2'	38:4:68:G:C8	2.52	0.45
85:5:1573:G:C5	85:5:1574:C:H1'	2.52	0.45
85:5:1573:G:H2'	85:5:1574:C:O4'	2.17	0.45
85:5:1599:G:N2	85:5:1600:U:C2	2.84	0.45
85:5:1622:U:H2'	85:5:1623:G:H8	1.82	0.45
85:5:1709:C:H2'	85:5:1710:C:H6	1.82	0.45
66:O0:28:LYS:HE2	85:5:1713:G:O6	236.71	0.45
85:5:1716:U:O2'	85:5:1717:U:O5'	2.29	0.45
85:5:1646:G:N3	85:5:1808:G:C2	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:1851:G:C8	85:5:1851:G:O5'	2.67	0.45
72:O6:75:LYS:HE2	85:5:2216:G:OP1	166.84	0.45
85:5:409:A:H5'	85:5:410:U:OP2	2.17	0.45
80:6:1227:A:H4'	80:6:1228:G:C5'	2.42	0.45
80:6:1453:G:H2'	80:6:1454:G:C8	2.52	0.45
80:6:1484:G:H2'	80:6:1485:C:C6	2.52	0.45
80:6:1620:C:H2'	80:6:1621:U:C6	2.46	0.45
80:6:1733:C:H2'	80:6:1734:U:C6	2.52	0.45
80:6:536:C:N4	80:6:537:G:C6	2.84	0.45
38:8:11:C:H2'	38:8:12:A:O4'	2.17	0.45
38:8:155:A:H2'	38:8:156:U:O4'	2.17	0.45
1:2:336:G:H5'	13:C1:130:PRO:O	2.17	0.45
15:C3:22:ALA:HB1	15:C3:23:PRO:CA	2.47	0.45
17:C5:79:HIS:O	17:C5:81:ARG:N	2.82	0.45
18:C6:122:ARG:O	18:C6:123:ARG:NE	2.49	0.45
18:C6:9:THR:HG21	18:C6:88:GLY:HA2	1.98	0.45
19:C7:10:LYS:HD3	19:C7:53:TYR:CZ	3.81	0.45
19:C7:27:ASP:OD2	19:C7:30:THR:HG23	2.16	0.45
20:C8:82:PRO:O	20:C8:83:ALA:HB3	2.16	0.45
5:S3:10:LYS:NZ	22:D0:113:ASP:OD2	2.49	0.45
22:D0:71:PRO:O	31:D9:40:ARG:NH2	2.47	0.45
2:S0:185:ARG:HB2	23:D1:45:ALA:HB3	1.98	0.45
15:C3:18:TYR:OH	24:D2:54:ASP:OD2	4.58	0.45
15:C3:18:TYR:CZ	24:D2:56:HIS:CE1	3.47	0.45
33:E1:84:VAL:HG13	33:E1:85:TYR:CD1	6.91	0.45
39:L2:33:ASP:O	39:L2:37:ARG:HG2	2.15	0.45
39:L2:65:ASP:HB3	39:L2:68:LYS:O	2.22	0.45
36:1:3315:G:C6	40:L3:123:TYR:CE2	3.04	0.45
40:L3:198:HIS:O	40:L3:199:PHE:C	2.75	0.45
40:L3:358:TRP:CH2	60:N4:15:PRO:HD2	2.52	0.45
42:L5:105:ILE:HG23	42:L5:106:ALA:N	3.26	0.45
42:L5:287:ALA:O	42:L5:290:ILE:HG13	2.17	0.45
42:L5:60:ILE:HD13	42:L5:60:ILE:HG21	1.94	0.45
44:L7:136:TYR:O	44:L7:231:ASN:HA	2.17	0.45
44:L7:131:GLU:O	44:L7:229:PHE:CD1	2.70	0.45
45:L8:26:LEU:HD21	63:N7:123:GLN:CD	2.37	0.45
45:L8:79:GLN:HG2	45:L8:80:TYR:N	2.50	0.45
45:L8:97:TYR:OH	45:L8:204:ARG:N	2.49	0.45
46:L9:117:PHE:CE1	46:L9:165:CYS:HB3	2.98	0.45
47:M0:142:ASP:C	47:M0:144:ASN:H	2.18	0.45
37:3:64:A:N7	47:M0:209:ASN:ND2	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:M5:115:VAL:HG22	51:M5:134:LEU:HG	2.73	0.45
45:L8:136:LEU:HD13	51:M5:3:ALA:CB	2.65	0.45
52:M6:23:VAL:HG11	52:M6:84:LEU:HD11	1.98	0.45
55:M9:104:ARG:HH21	55:M9:108:LYS:NZ	2.15	0.45
56:N0:52:LYS:O	56:N0:55:SER:N	2.40	0.45
57:N1:96:ILE:HA	57:N1:96:ILE:HD13	3.49	0.45
58:N2:24:GLU:HG2	58:N2:24:GLU:H	2.36	0.45
59:N3:70:ARG:O	59:N3:72:LYS:HG2	6.00	0.45
62:N6:86:THR:HG22	62:N6:96:PRO:HA	2.13	0.45
62:N6:89:LYS:HZ3	85:5:375:A:P	77.09	0.45
63:N7:60:LYS:O	63:N7:63:ALA:N	2.50	0.45
64:N8:135:GLU:HG2	64:N8:145:VAL:HG21	1.99	0.45
36:1:116:A:OP1	72:O6:36:ARG:NH1	2.50	0.45
77:Q1:24:SER:O	77:Q1:25:LYS:O	3.45	0.45
6:S4:129:VAL:O	6:S4:129:VAL:HG13	2.71	0.45
6:S4:114:ILE:HG22	6:S4:237:SER:OG	2.63	0.45
7:S5:160:VAL:HG12	30:D8:43:ASN:HB3	2.63	0.45
10:S8:16:ALA:HB2	80:6:354:C:H5"	297.24	0.45
11:S9:102:GLU:OE2	11:S9:102:GLU:N	2.39	0.45
34:SR:198:ASN:O	34:SR:215:GLY:HA3	2.17	0.45
36:1:1317:A:C5	36:1:1319:G:C8	3.05	0.45
36:1:2261:G:H21	36:1:2262:A:N6	2.15	0.45
36:1:2280:A:H5"	36:1:2281:A:P	2.57	0.45
36:1:230:U:C4	36:1:231:G:N7	2.84	0.45
36:1:2629:U:O4	57:N1:2:GLY:N	2.50	0.45
36:1:2961:G:C6	36:1:2962:U:C4	3.05	0.45
36:1:3021:A:O4'	36:1:3023:U:C6	2.70	0.45
36:1:3177:G:C2	36:1:3179:U:C5	3.05	0.45
36:1:3182:G:H2'	36:1:3183:A:O4'	2.17	0.45
36:1:3210:A:H2'	36:1:3211:C:O4'	2.17	0.45
36:1:3252:G:H2'	36:1:3253:G:C8	2.51	0.45
36:1:3084:C:O2'	36:1:3332:U:OP1	2.23	0.45
36:1:3343:G:H2'	36:1:3361:G:H21	1.82	0.45
36:1:381:U:H2'	36:1:382:U:C6	2.51	0.45
36:1:394:G:N2	36:1:396:A:H3'	2.32	0.45
36:1:613:G:H2'	36:1:614:C:H6	1.82	0.45
36:1:936:A:H5"	36:1:937:G:OP1	2.16	0.45
1:2:1254:G:C5	1:2:1255:U:C4	3.05	0.45
1:2:1515:U:O4	1:2:1516:C:N4	2.50	0.45
1:2:1519:G:C2	1:2:1521:U:C2	3.05	0.45
1:2:564:G:N1	1:2:578:U:O4'	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:685:G:O2'	1:2:686:G:H8	1.99	0.45
1:2:852:A:H2'	1:2:853:C:O4'	2.17	0.45
1:2:902:A:H4'	16:C4:35:GLY:HA3	1.99	0.45
37:3:5:G:OP1	48:M1:143:ARG:NH2	2.43	0.45
85:5:1146:C:H2'	85:5:1147:G:H8	1.81	0.45
85:5:1273:A:H3'	85:5:1274:A:C8	2.50	0.45
85:5:1611:G:H2'	85:5:1612:A:C8	2.52	0.45
85:5:1807:G:C6	85:5:1808:G:C6	3.05	0.45
85:5:241:G:H2'	85:5:242:C:O4'	2.17	0.45
85:5:3263:G:C2	85:5:3264:G:C8	3.05	0.45
85:5:497:C:N4	85:5:616:G:H1	2.14	0.45
85:5:957:C:N3	85:5:958:C:C5	2.85	0.45
80:6:1491:U:H5'	80:6:1492:A:OP1	2.16	0.45
80:6:1616:G:N7	92:6:1994:OHX:N5	2.65	0.45
8:S6:65:GLN:HG3	80:6:1681:A:H8	278.20	0.45
80:6:323:A:C6	80:6:324:U:O4	2.70	0.45
80:6:643:G:N2	80:6:692:C:C2	2.85	0.45
80:6:722:G:H1'	80:6:723:G:C8	2.52	0.45
37:7:106:U:C2	37:7:107:C:C6	3.05	0.45
56:N0:50:LYS:HD3	37:7:77:G:O5'	300.92	0.45
12:C0:8:ARG:HD2	12:C0:12:HIS:HE1	1.82	0.45
15:C3:102:LEU:HD23	15:C3:102:LEU:HA	1.54	0.45
17:C5:31:GLU:HA	17:C5:34:VAL:HG22	2.09	0.45
18:C6:40:GLU:OE2	18:C6:42:GLU:HB2	2.17	0.45
19:C7:108:ASP:N	19:C7:108:ASP:OD1	3.38	0.45
20:C8:3:LEU:HD23	20:C8:5:VAL:HG23	5.66	0.45
21:C9:74:GLY:O	21:C9:77:ASN:N	3.61	0.45
22:D0:24:ILE:HG21	22:D0:41:ILE:HD13	7.65	0.45
24:D2:62:VAL:HG13	29:D7:7:LEU:HD12	3.20	0.45
25:D3:66:SER:HB3	80:6:565:C:O2	360.71	0.45
28:D6:72:HIS:N	28:D6:72:HIS:ND1	3.93	0.45
32:E0:46:ASN:OD1	32:E0:47:VAL:N	3.16	0.45
39:L2:15:ILE:HD12	39:L2:15:ILE:HA	4.65	0.45
41:L4:99:MET:CE	41:L4:102:PRO:HA	2.58	0.45
41:L4:252:GLU:O	41:L4:253:ALA:C	2.53	0.45
41:L4:338:LYS:HD2	41:L4:338:LYS:HA	1.48	0.45
41:L4:361:HIS:CG	41:L4:362:ASP:N	2.85	0.45
42:L5:184:ASP:HB3	42:L5:187:THR:O	2.16	0.45
42:L5:20:PHE:CD2	37:7:10:C:C4	278.09	0.45
42:L5:259:LYS:O	42:L5:260:PHE:HB2	2.17	0.45
44:L7:175:LYS:HE2	44:L7:175:LYS:HB2	1.60	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:L9:4:ILE:HD11	56:N0:150:PHE:CD2	2.52	0.45
46:L9:90:MET:HE3	46:L9:181:VAL:HG22	3.43	0.45
47:M0:141:LYS:O	47:M0:142:ASP:C	2.56	0.45
48:M1:21:ILE:HG12	48:M1:125:MET:HB3	4.94	0.45
49:M3:119:TYR:HD1	49:M3:145:PHE:CE2	2.34	0.45
49:M3:28:GLN:OE1	51:M5:201:ARG:NH1	3.11	0.45
50:M4:18:GLY:O	50:M4:69:THR:HG22	2.16	0.45
51:M5:106:VAL:C	51:M5:109:ARG:H	2.20	0.45
51:M5:24:ARG:HA	51:M5:27:VAL:HG12	1.97	0.45
52:M6:65:ASN:OD1	52:M6:67:THR:HB	2.16	0.45
53:M7:151:THR:HG22	53:M7:152:GLU:N	2.30	0.45
1:2:836:G:O6	55:M9:173:ARG:NH2	2.50	0.45
57:N1:109:VAL:HA	57:N1:112:ASN:HD22	2.82	0.45
44:L7:73:GLY:O	57:N1:143:THR:HB	3.70	0.45
59:N3:104:ASN:O	59:N3:107:GLY:N	2.53	0.45
63:N7:15:ARG:HD2	63:N7:79:HIS:CD2	3.95	0.45
65:N9:58:LYS:HA	65:N9:58:LYS:HD2	1.58	0.45
67:O1:36:ILE:O	67:O1:39:PHE:HB3	2.17	0.45
70:O4:106:LYS:O	70:O4:110:GLU:HG3	2.61	0.45
71:O5:31:LEU:HA	71:O5:31:LEU:HD23	1.75	0.45
72:O6:52:PRO:O	72:O6:56:ARG:N	3.21	0.45
64:N8:128:ARG:CB	72:O6:8:ALA:HB2	3.23	0.45
74:O8:26:LYS:O	74:O8:27:ILE:HD13	2.16	0.45
78:Q2:101:GLY:C	78:Q2:102:GLN:HE21	6.39	0.45
78:Q2:46:LYS:O	92:Q2:502:OHX:N3	3.38	0.45
2:S0:179:ARG:HD3	2:S0:183:ARG:HH11	1.82	0.45
2:S0:3:LEU:HA	2:S0:4:PRO:HD2	2.73	0.45
4:S2:125:ILE:O	4:S2:129:ILE:HG13	2.43	0.45
4:S2:148:LEU:HD22	4:S2:148:LEU:HA	1.76	0.45
4:S2:44:LEU:HD11	4:S2:247:ALA:HB2	1.99	0.45
5:S3:69:LEU:O	5:S3:73:VAL:HG23	2.17	0.45
7:S5:216:GLU:O	7:S5:220:VAL:HG23	2.27	0.45
8:S6:22:HIS:HA	8:S6:25:ARG:HH11	1.82	0.45
9:S7:12:ALA:HB3	9:S7:13:PRO:HD3	1.97	0.45
9:S7:155:ASP:OD2	9:S7:156:SER:N	2.45	0.45
10:S8:82:VAL:HG13	10:S8:101:ILE:HG22	6.63	0.45
11:S9:109:LEU:HD13	11:S9:129:ILE:CD1	2.64	0.45
34:SR:238:ASP:OD2	34:SR:258:THR:HG23	2.17	0.45
36:1:1284:C:C4	36:1:1285:G:N1	2.84	0.45
36:1:1294:A:C2	36:1:1295:G:N7	2.85	0.45
36:1:1307:G:C2	36:1:1308:A:C2	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1412:G:H2'	36:1:1413:G:O4'	2.17	0.45
36:1:1428:A:OP2	64:N8:2:PRO:HB2	2.17	0.45
36:1:1654:A:N6	36:1:1655:G:C6	2.85	0.45
36:1:168:U:H6	36:1:168:U:O5'	2.00	0.45
36:1:1921:A:N6	36:1:1929:G:H2'	2.32	0.45
36:1:2209:U:OP2	36:1:2209:U:C6	2.70	0.45
36:1:2244:A:H2'	36:1:2245:C:H6	1.82	0.45
36:1:2380:U:N3	36:1:2381:G:C8	2.85	0.45
36:1:2946:A:C2	36:1:2982:A:C4	3.05	0.45
36:1:2808:A:N7	36:1:2955:U:H4'	2.32	0.45
36:1:3060:C:OP2	92:1:3572:OHX:N6	2.50	0.45
36:1:422:A:C2	36:1:2363:A:H4'	2.52	0.45
36:1:551:A:O2'	36:1:552:G:H8	2.00	0.45
1:2:1082:U:H5''	24:D2:71:LYS:NZ	2.32	0.45
1:2:5:U:O2	1:2:20:G:C2	2.70	0.45
1:2:361:C:C2	1:2:384:G:N2	2.85	0.45
1:2:432:G:C2	1:2:433:C:C2	3.05	0.45
1:2:513:U:H2'	1:2:514:G:C8	2.52	0.45
1:2:381:C:H1'	1:2:739:A:C2	2.51	0.45
1:2:867:A:H2'	1:2:868:G:C8	2.52	0.45
37:3:42:A:C5	37:3:43:U:C5	3.04	0.45
37:3:67:G:H2'	37:3:68:C:O4'	2.16	0.45
42:L5:140:ARG:O	85:5:1079:A:H4'	235.37	0.45
52:M6:60:LYS:HE2	85:5:1307:G:H5''	250.80	0.45
85:5:1311:G:H2'	85:5:1312:C:C6	2.52	0.45
68:O2:125:ARG:NH2	85:5:1393:A:OP1	131.26	0.45
85:5:1475:A:C2	85:5:1476:G:C4	3.05	0.45
85:5:1487:G:C6	85:5:1488:G:C8	3.05	0.45
85:5:1561:G:N2	85:5:1562:C:H1'	2.31	0.45
85:5:1760:A:C2	85:5:1766:G:C2	3.05	0.45
85:5:1757:A:C2	85:5:1769:G:C4	3.05	0.45
85:5:2852:C:N4	85:5:2853:A:C5	2.85	0.45
85:5:3100:U:O2	85:5:3101:G:C8	2.70	0.45
85:5:3253:G:C4	85:5:3254:G:C8	3.05	0.45
85:5:3258:U:O2'	85:5:3260:G:OP1	2.32	0.45
85:5:340:C:H2'	85:5:341:G:C8	2.52	0.45
85:5:67:A:H2'	85:5:68:C:OP1	2.16	0.45
85:5:872:U:H2'	85:5:873:C:H6	1.83	0.45
80:6:1003:A:H4'	80:6:1004:U:O5'	2.16	0.45
80:6:1405:G:H2'	80:6:1406:A:C8	2.52	0.45
80:6:1670:G:O5'	80:6:1670:G:H8	2.00	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:1776:A:H2'	80:6:1777:G:C8	2.52	0.45
80:6:281:G:C6	80:6:282:C:N4	2.85	0.45
80:6:386:G:N1	80:6:387:A:C6	2.85	0.45
80:6:616:G:C2	80:6:622:A:N7	2.85	0.45
11:S9:79:ARG:NH1	80:6:762:A:OP1	407.88	0.45
80:6:998:A:C5	80:6:999:U:C5	3.05	0.45
15:C3:16:ILE:HA	15:C3:16:ILE:HD12	4.40	0.45
16:C4:131:GLY:O	16:C4:133:ARG:N	2.78	0.45
92:2:1961:OHX:N6	92:C7:201:OHX:N2	2.64	0.45
5:S3:203:PRO:HA	19:C7:42:GLN:HG3	1.99	0.45
20:C8:11:PHE:HB2	20:C8:60:GLU:HA	1.99	0.45
22:D0:23:ARG:HB3	22:D0:117:VAL:HB	4.58	0.45
27:D5:71:ILE:HG12	27:D5:76:ALA:HB2	4.66	0.45
28:D6:11:ASN:O	28:D6:33:ASP:HB2	2.16	0.45
32:E0:43:ARG:O	32:E0:44:PHE:CD1	2.70	0.45
39:L2:113:VAL:HG22	39:L2:166:ILE:HA	1.99	0.45
40:L3:4:ARG:HH11	40:L3:4:ARG:HG3	3.44	0.45
41:L4:16:THR:HG23	41:L4:18:ASN:H	2.08	0.45
41:L4:203:ARG:NH2	41:L4:240:PRO:HB3	2.32	0.45
44:L7:205:PHE:CD2	44:L7:205:PHE:N	3.21	0.45
44:L7:89:ILE:HG23	44:L7:89:ILE:HD12	1.56	0.45
47:M0:205:SER:HB3	47:M0:208:ASN:HD21	2.02	0.45
47:M0:69:ARG:O	47:M0:72:ALA:HB3	3.63	0.45
47:M0:90:ARG:HD2	47:M0:90:ARG:HH11	1.85	0.45
48:M1:63:GLU:O	48:M1:64:LYS:HB2	2.17	0.45
51:M5:197:LEU:HD12	51:M5:197:LEU:HA	2.47	0.45
53:M7:131:ARG:HH21	85:5:879:U:H2'	164.24	0.45
53:M7:67:ILE:N	53:M7:67:ILE:HD12	2.32	0.45
49:M3:6:ASN:OD1	54:M8:164:ARG:NH1	4.71	0.45
56:N0:46:GLN:HG2	56:N0:51:VAL:O	2.16	0.45
57:N1:88:ARG:HD3	65:N9:33:LYS:HZ1	7.21	0.45
57:N1:74:VAL:O	57:N1:89:LEU:HB2	2.17	0.45
58:N2:90:ARG:O	58:N2:91:ASP:HB2	2.17	0.45
59:N3:13:ILE:HD11	59:N3:53:SER:HB2	1.98	0.45
59:N3:27:ASP:OD1	59:N3:29:SER:HB3	4.33	0.45
61:N5:106:ASP:HB2	61:N5:130:TYR:HE1	2.49	0.45
61:N5:40:LEU:HA	61:N5:40:LEU:HD13	2.48	0.45
63:N7:46:ILE:HG12	63:N7:49:TYR:CD1	3.15	0.45
49:M3:64:LYS:HE3	64:N8:69:TRP:HD1	1.81	0.45
67:O1:14:ILE:HG13	67:O1:39:PHE:CE1	4.18	0.45
71:O5:66:VAL:HG12	71:O5:70:TYR:HD2	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:O8:60:GLY:O	74:O8:61:LYS:C	2.54	0.45
2:S0:188:LEU:HD21	2:S0:195:TRP:NE1	2.32	0.45
6:S4:36:HIS:CE1	6:S4:85:GLY:HA3	3.58	0.45
6:S4:95:THR:HG22	26:D4:16:PRO:HD2	1.99	0.45
7:S5:151:GLY:HA3	7:S5:156:ARG:N	5.12	0.45
10:S8:184:LEU:HD23	10:S8:189:LEU:HA	1.99	0.45
36:1:1108:U:C2	36:1:1109:U:C5	3.05	0.44
36:1:1504:A:C6	36:1:1505:C:C4	3.05	0.44
36:1:1661:G:H2'	36:1:1662:G:C8	2.52	0.44
36:1:1902:G:H3'	36:1:1903:U:C6	2.52	0.44
36:1:2145:A:C2	36:1:2146:C:C6	3.05	0.44
36:1:2226:U:O3'	78:Q2:32:LYS:NZ	2.48	0.44
36:1:2392:C:H5''	36:1:2393:G:OP2	2.16	0.44
36:1:242:C:HO2'	36:1:243:G:H8	1.63	0.44
36:1:2593:A:H4'	36:1:2594:C:O5'	2.17	0.44
36:1:2762:A:H1'	36:1:2800:G:C6	2.52	0.44
36:1:2819:A:O2'	36:1:2820:A:H5'	2.17	0.44
36:1:3039:C:OP1	40:L3:65:SER:OG	2.30	0.44
36:1:3347:A:C2	36:1:3359:A:C2	3.05	0.44
36:1:370:U:C4	36:1:371:G:C6	3.04	0.44
36:1:426:G:C5	36:1:427:C:C5	3.05	0.44
36:1:540:U:H2'	36:1:541:U:O4'	2.17	0.44
36:1:67:A:C2	36:1:317:A:C8	3.05	0.44
36:1:951:A:C4	36:1:1369:A:C2	3.05	0.44
1:2:1227:A:HO2'	1:2:1228:G:P	2.39	0.44
1:2:1795:G:H2'	1:2:1796:C:H5''	1.99	0.44
1:2:301:A:H8	1:2:301:A:O5'	1.99	0.44
1:2:328:A:H2'	1:2:329:G:O4'	2.17	0.44
1:2:395:U:O4'	8:S6:90:GLY:HA3	2.17	0.44
1:2:413:U:H2'	1:2:414:C:C6	2.52	0.44
1:2:586:G:H2'	1:2:587:C:C6	2.52	0.44
1:2:875:A:C6	1:2:876:U:C4	3.06	0.44
1:2:912:A:O4'	16:C4:124:ASP:HB3	2.17	0.44
85:5:1234:G:O5'	85:5:1235:U:H5''	2.17	0.44
85:5:1363:A:O5'	85:5:1363:A:H8	2.01	0.44
85:5:1387:G:N1	85:5:1388:U:C4	2.86	0.44
85:5:1375:G:N3	85:5:1407:A:H2	2.15	0.44
51:M5:105:ARG:NH1	85:5:1547:G:OP2	132.19	0.44
85:5:1595:U:O2	85:5:1596:C:N1	2.50	0.44
85:5:1661:G:N2	85:5:1789:G:N3	2.65	0.44
85:5:1811:G:C6	85:5:1812:G:C8	3.06	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:1906:G:N2	85:5:1909:A:N1	2.61	0.44
85:5:204:A:C2	85:5:205:C:C2	3.05	0.44
85:5:2157:G:N1	85:5:2178:A:OP2	2.48	0.44
85:5:2218:G:O2'	85:5:2219:A:H5'	2.16	0.44
85:5:2271:A:N7	85:5:2272:G:C6	2.85	0.44
85:5:228:U:H6	85:5:228:U:O5'	1.99	0.44
85:5:2541:U:H4'	85:5:2542:U:OP1	2.18	0.44
85:5:2581:U:H2'	85:5:2582:C:C6	2.47	0.44
85:5:2882:U:H2'	85:5:2883:U:C6	2.52	0.44
85:5:3288:G:O2'	85:5:3289:G:H8	2.00	0.44
85:5:365:A:C4	85:5:366:A:C8	3.05	0.44
85:5:525:C:H2'	85:5:526:C:C6	2.52	0.44
85:5:798:G:C6	85:5:799:G:C5	3.05	0.44
80:6:1087:A:H5'	80:6:1298:U:C5	2.52	0.44
80:6:1511:U:H2'	80:6:1512:G:C8	2.53	0.44
80:6:1777:G:H2'	80:6:1778:G:H8	1.81	0.44
92:6:1921:OHX:N6	92:6:1929:OHX:N2	2.65	0.44
80:6:293:U:H2'	80:6:294:C:C6	2.51	0.44
37:7:62:U:O4	37:7:63:A:N6	2.50	0.44
13:C1:94:ILE:O	13:C1:95:PRO:C	2.91	0.44
16:C4:71:CYS:O	16:C4:75:GLY:N	3.21	0.44
18:C6:40:GLU:OE2	18:C6:45:ARG:NH2	3.42	0.44
20:C8:8:GLN:HB3	20:C8:9:GLY:H	3.19	0.44
22:D0:118:VAL:HB	22:D0:119:ALA:H	3.75	0.44
25:D3:107:PHE:CD2	25:D3:114:LYS:HB3	3.80	0.44
33:E1:86:THR:O	33:E1:87:THR:OG1	2.57	0.44
40:L3:25:ILE:HD13	40:L3:25:ILE:N	2.14	0.44
41:L4:110:ASN:HB2	51:M5:201:ARG:O	2.56	0.44
41:L4:82:THR:O	41:L4:82:THR:OG1	2.35	0.44
42:L5:102:GLY:O	42:L5:105:ILE:HG22	2.74	0.44
42:L5:122:VAL:HG13	42:L5:123:GLU:N	2.66	0.44
42:L5:150:LEU:HD23	42:L5:150:LEU:HA	1.77	0.44
43:L6:149:ILE:HG23	43:L6:155:LEU:HD13	1.97	0.44
43:L6:26:ARG:HB3	43:L6:27:PRO:HD2	2.31	0.44
44:L7:130:ILE:HG22	44:L7:134:VAL:HG22	6.29	0.44
46:L9:4:ILE:HG21	46:L9:4:ILE:HD13	1.89	0.44
47:M0:160:PRO:HB3	85:5:2854:U:O3'	289.36	0.44
47:M0:29:SER:O	47:M0:30:LYS:C	2.54	0.44
47:M0:63:GLU:H	47:M0:63:GLU:CD	2.17	0.44
49:M3:112:ASN:O	49:M3:116:LEU:N	2.49	0.44
50:M4:43:LYS:HE3	56:N0:96:ASP:OD2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:M7:113:TYR:C	53:M7:113:TYR:CD1	3.80	0.44
53:M7:67:ILE:HG21	53:M7:80:LYS:HB3	1.98	0.44
54:M8:53:PHE:N	54:M8:53:PHE:CD1	2.83	0.44
55:M9:180:LYS:HG3	55:M9:184:LEU:HD12	4.25	0.44
36:1:534:U:O2	56:N0:146:LYS:HA	2.18	0.44
56:N0:89:ASN:OD1	57:N1:156:TYR:HB3	2.17	0.44
57:N1:88:ARG:HH21	65:N9:33:LYS:HB3	1.82	0.44
61:N5:57:LEU:HD13	61:N5:94:GLN:HE22	6.97	0.44
36:1:2557:A:C5'	63:N7:135:ARG:HH11	2.30	0.44
64:N8:75:LEU:HG	64:N8:114:GLY:HA2	1.98	0.44
64:N8:19:LYS:HB3	64:N8:25:HIS:HB2	2.37	0.44
68:O2:103:LYS:O	68:O2:105:ARG:N	2.50	0.44
68:O2:26:HIS:O	68:O2:28:VAL:N	2.50	0.44
70:O4:44:CYS:SG	70:O4:81:CYS:SG	3.37	0.44
36:1:1485:G:H22	70:O4:4:ARG:HD2	1.81	0.44
73:O7:70:VAL:HA	73:O7:73:ARG:HB2	2.88	0.44
78:Q2:79:THR:OG1	78:Q2:80:ARG:N	2.49	0.44
79:Q3:81:SER:OG	79:Q3:82:THR:N	3.71	0.44
2:S0:69:ASN:HB3	2:S0:71:GLU:OE2	2.26	0.44
6:S4:187:ARG:NH1	80:6:753:A:N7	373.60	0.44
7:S5:111:VAL:O	7:S5:114:ILE:HB	2.17	0.44
7:S5:27:THR:HG23	18:C6:28:LEU:HB2	2.65	0.44
11:S9:146:PHE:HZ	11:S9:149:ARG:CZ	2.30	0.44
11:S9:30:LEU:HD22	11:S9:105:LEU:CD2	2.47	0.44
36:1:1182:A:H2'	36:1:1183:C:O4'	2.17	0.44
36:1:1701:C:H2'	36:1:1702:U:O4'	2.16	0.44
36:1:1778:G:N2	36:1:1780:G:C8	2.84	0.44
36:1:2275:A:H2'	36:1:2276:G:O4'	2.17	0.44
36:1:2421:U:H2'	36:1:2422:C:O4'	2.18	0.44
36:1:3030:G:C8	36:1:3031:G:C8	3.06	0.44
36:1:313:A:H2'	36:1:314:U:O4'	2.17	0.44
36:1:800:G:H2'	36:1:801:A:C8	2.52	0.44
1:2:1132:G:H1'	1:2:1748:A:C4	2.51	0.44
1:2:25:C:H4'	1:2:26:A:O5'	2.17	0.44
1:2:407:A:H2'	1:2:408:C:C6	2.53	0.44
1:2:552:G:C6	1:2:553:G:C6	3.05	0.44
1:2:743:A:H2'	1:2:744:G:O4'	2.17	0.44
37:3:28:C:H5''	48:M1:137:ARG:HG2	1.98	0.44
38:4:135:G:OP2	61:N5:56:ARG:NH2	2.49	0.44
85:5:1329:U:O2'	85:5:1330:A:P	2.72	0.44
58:N2:77:LYS:NZ	85:5:1679:A:OP2	138.60	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:O4:41:ARG:NH1	85:5:1739:U:H1'	189.23	0.44
85:5:1741:A:C5	85:5:1742:U:C2	3.05	0.44
85:5:1746:U:H2'	85:5:1747:G:H8	1.83	0.44
85:5:2189:U:C5	85:5:2190:U:C5	3.05	0.44
85:5:2631:U:C2	85:5:2632:G:N7	2.86	0.44
85:5:2902:A:OP1	85:5:3032:A:H1'	2.17	0.44
85:5:359:U:O4	85:5:360:G:C6	2.70	0.44
92:5:3625:OHX:N6	92:5:3643:OHX:N2	2.66	0.44
92:5:3692:OHX:N3	92:5:3694:OHX:N4	2.65	0.44
85:5:430:U:H2'	85:5:431:U:O4'	2.17	0.44
85:5:812:G:C2	85:5:929:A:C2	3.06	0.44
80:6:1279:C:H2'	80:6:1280:C:O4'	2.17	0.44
80:6:1489:U:O2'	80:6:1490:C:OP2	2.33	0.44
80:6:1562:G:C6	80:6:1563:C:C4	3.06	0.44
92:6:2005:OHX:N2	92:6:2048:OHX:N1	2.66	0.44
80:6:43:A:N3	80:6:378:A:C5	2.85	0.44
80:6:906:A:N6	80:6:907:A:C6	2.85	0.44
12:C0:2:LEU:HD22	80:6:1258:U:H4'	432.65	0.44
13:C1:55:ASP:OD2	13:C1:58:CYS:N	2.50	0.44
15:C3:64:ARG:HA	15:C3:67:THR:O	2.17	0.44
16:C4:87:GLY:HA3	16:C4:120:PRO:HG2	2.64	0.44
19:C7:31:ASN:H	19:C7:31:ASN:HD22	4.39	0.44
19:C7:71:PHE:HD1	19:C7:73:LEU:HB3	1.81	0.44
20:C8:112:ASP:O	20:C8:115:ARG:N	2.78	0.44
20:C8:50:ALA:HB2	20:C8:72:ILE:HD12	2.51	0.44
21:C9:34:VAL:O	21:C9:36:ILE:HG23	2.16	0.44
22:D0:69:LYS:HE2	22:D0:80:GLU:HB2	2.00	0.44
23:D1:34:ILE:HA	23:D1:34:ILE:HD13	1.90	0.44
4:S2:230:TRP:HZ2	24:D2:46:TYR:CE1	2.35	0.44
9:S7:143:LEU:HD13	24:D2:49:GLU:OE2	2.27	0.44
25:D3:23:ARG:HB2	25:D3:29:TYR:CE1	3.31	0.44
30:D8:32:PHE:HZ	30:D8:38:ARG:HE	1.62	0.44
39:L2:32:LEU:HD23	39:L2:163:ARG:HD3	1.99	0.44
39:L2:206:PRO:HG3	39:L2:213:GLY:HA3	1.99	0.44
39:L2:21:ARG:HD2	39:L2:21:ARG:HH11	1.84	0.44
39:L2:70:ARG:NH1	39:L2:72:ARG:NH2	7.20	0.44
40:L3:275:ARG:HD3	40:L3:275:ARG:HA	1.67	0.44
40:L3:60:LEU:HD23	40:L3:67:PHE:O	3.10	0.44
40:L3:93:VAL:O	40:L3:99:LEU:HA	2.62	0.44
41:L4:24:ALA:O	41:L4:26:PHE:N	3.30	0.44
44:L7:88:ARG:NE	44:L7:103:LEU:HD13	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:120:G:N2	45:L8:123:GLN:O	2.50	0.44
45:L8:133:LYS:HB2	45:L8:199:ALA:O	3.51	0.44
46:L9:134:ILE:O	46:L9:134:ILE:HG22	2.17	0.44
53:M7:9:THR:HG23	53:M7:10:ASN:N	2.42	0.44
53:M7:85:ALA:O	53:M7:86:LYS:C	2.80	0.44
58:N2:29:ASP:OD2	58:N2:32:SER:N	5.21	0.44
59:N3:2:SER:OG	59:N3:3:GLY:N	4.27	0.44
60:N4:47:ARG:HD3	60:N4:58:HIS:HD2	7.73	0.44
61:N5:82:LEU:N	61:N5:124:VAL:O	2.90	0.44
62:N6:5:SER:O	62:N6:7:ASP:N	3.93	0.44
63:N7:76:ASN:HB3	63:N7:79:HIS:ND1	2.32	0.44
65:N9:57:ALA:O	65:N9:59:LYS:HE2	6.71	0.44
68:O2:73:THR:OG1	68:O2:74:PHE:N	2.48	0.44
69:O3:85:PHE:CE1	69:O3:89:LEU:HD11	2.52	0.44
36:1:3173:G:O6	69:O3:92:LYS:HG2	2.17	0.44
75:O9:15:LYS:HE3	75:O9:19:GLN:HE22	1.82	0.44
78:Q2:14:GLY:O	78:Q2:17:CYS:O	5.40	0.44
2:S0:71:GLU:O	2:S0:96:THR:HG22	2.22	0.44
3:S1:119:THR:HG22	3:S1:120:LEU:H	1.82	0.44
3:S1:183:GLN:O	3:S1:187:LYS:HG3	2.23	0.44
4:S2:139:ILE:HD12	4:S2:191:ALA:HB1	2.27	0.44
4:S2:165:VAL:HA	4:S2:201:ASN:O	2.40	0.44
5:S3:27:ARG:NH2	80:6:1436:A:OP2	421.09	0.44
6:S4:28:ALA:O	80:6:448:C:H4'	364.93	0.44
6:S4:9:LEU:HB2	6:S4:30:ARG:HB2	2.69	0.44
11:S9:115:LYS:HD2	11:S9:115:LYS:HA	1.58	0.44
11:S9:78:ARG:HG3	11:S9:79:ARG:N	2.64	0.44
34:SR:171:SER:OG	34:SR:181:TRP:NE1	2.94	0.44
34:SR:250:TYR:HD2	34:SR:266:ASP:HB3	4.48	0.44
34:SR:10:ARG:NH1	34:SR:51:ASP:OD1	6.34	0.44
36:1:1246:G:OP2	92:1:3638:OHX:N3	2.51	0.44
36:1:1390:A:H4'	36:1:1391:C:H5''	1.99	0.44
36:1:1392:G:O2'	36:1:1417:G:N2	2.40	0.44
36:1:2628:A:H1'	36:1:2798:C:C2	2.52	0.44
36:1:2842:U:C5	36:1:2843:U:C5	3.05	0.44
36:1:3018:C:H2'	36:1:3019:U:O4'	2.18	0.44
36:1:3327:G:C2	36:1:3328:G:C8	3.06	0.44
36:1:3393:U:H2'	36:1:3394:U:H6	1.82	0.44
36:1:1587:A:OP1	92:1:3479:OHX:N6	2.51	0.44
36:1:816:A:H5'	36:1:906:A:H61	1.82	0.44
1:2:103:A:C4	1:2:309:C:N4	2.85	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1791:G:H21	1:2:1802:C:H41	1.64	0.44
1:2:249:U:H5	13:C1:34:TRP:CE2	2.35	0.44
1:2:93:A:H2'	1:2:398:G:N2	2.33	0.44
37:3:27:A:O4'	37:3:57:G:N2	2.50	0.44
38:4:45:C:H2'	38:4:46:G:O4'	2.17	0.44
85:5:20:A:O2'	85:5:21:G:H5'	2.17	0.44
85:5:3006:A:H2'	85:5:3007:U:O4'	2.17	0.44
85:5:1170:A:OP2	92:5:3506:OHX:N3	2.51	0.44
85:5:706:A:H2'	85:5:707:U:O4'	2.17	0.44
54:M8:146:SER:OG	85:5:786:A:OP1	156.99	0.44
80:6:370:A:N6	80:6:371:G:C2	2.86	0.44
24:D2:82:LYS:HZ2	80:6:794:U:H1'	359.13	0.44
12:C0:58:GLN:O	12:C0:65:TYR:N	2.49	0.44
14:C2:138:GLU:OE2	14:C2:142:GLN:HB3	3.58	0.44
15:C3:123:HIS:CE1	15:C3:141:TYR:HD2	2.64	0.44
20:C8:119:ILE:HA	20:C8:119:ILE:HD12	2.54	0.44
20:C8:120:ARG:NH2	35:SM:61:ILE:HD11	2.32	0.44
22:D0:30:LYS:HD3	22:D0:33:GLN:NE2	2.31	0.44
22:D0:52:LYS:HB3	22:D0:93:LEU:HD23	2.00	0.44
24:D2:71:LYS:NZ	80:6:1099:U:H5''	373.04	0.44
39:L2:212:GLY:O	39:L2:213:GLY:C	3.85	0.44
39:L2:86:GLN:HG2	39:L2:88:ILE:CD1	2.67	0.44
36:1:3370:A:H5'	40:L3:384:LYS:HD2	2.00	0.44
41:L4:300:ARG:CG	41:L4:301:PRO:HD2	4.14	0.44
43:L6:105:TYR:CE1	43:L6:134:ARG:HD2	2.50	0.44
47:M0:31:ILE:HB	47:M0:66:GLU:HB2	1.99	0.44
49:M3:176:GLU:HG2	72:O6:11:LEU:HD23	3.16	0.44
49:M3:21:ARG:HB3	51:M5:196:THR:OG1	2.18	0.44
59:N3:86:ARG:HG2	59:N3:86:ARG:NH1	3.00	0.44
60:N4:49:ILE:HA	60:N4:49:ILE:HD13	2.42	0.44
61:N5:71:THR:O	61:N5:75:LYS:HG3	2.38	0.44
62:N6:62:SER:C	62:N6:64:LYS:H	2.20	0.44
63:N7:77:TYR:C	63:N7:79:HIS:H	2.21	0.44
67:O1:80:ASN:OD1	67:O1:81:GLU:N	2.51	0.44
79:Q3:13:LYS:HD2	79:Q3:14:TYR:CE1	2.52	0.44
79:Q3:84:ARG:O	79:Q3:85:ARG:C	2.56	0.44
2:S0:172:LEU:HD22	2:S0:176:LEU:HG	3.06	0.44
2:S0:177:LEU:O	2:S0:181:VAL:HG22	2.94	0.44
3:S1:167:VAL:O	3:S1:171:ILE:HG13	2.47	0.44
6:S4:208:VAL:HG21	6:S4:225:VAL:HG21	1.98	0.44
7:S5:20:PHE:O	7:S5:21:THR:OG1	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S7:62:VAL:HG13	9:S7:66:SER:OG	2.47	0.44
11:S9:135:ALA:HB1	11:S9:139:GLN:O	2.17	0.44
11:S9:53:ARG:O	11:S9:57:ARG:HB2	3.24	0.44
35:SM:24:GLU:C	35:SM:25:ILE:HD12	2.37	0.44
35:SM:32:SER:OG	35:SM:32:SER:O	2.30	0.44
35:SM:84:LYS:HG2	35:SM:86:ASN:H	1.82	0.44
36:1:1346:G:C2	36:1:1359:C:O2	2.70	0.44
36:1:1415:U:H2'	36:1:1416:C:O4'	2.17	0.44
36:1:1462:A:C6	36:1:1463:U:C4	3.05	0.44
36:1:1672:U:O2'	36:1:1673:G:H5'	2.17	0.44
36:1:1774:C:H2'	36:1:1775:G:O4'	2.17	0.44
36:1:2507:C:H2'	36:1:2508:U:C6	2.51	0.44
36:1:2534:G:H2'	36:1:2535:A:H8	1.83	0.44
36:1:2558:U:O2'	36:1:2559:U:H5'	2.17	0.44
36:1:2590:A:C5	36:1:2591:A:N7	2.85	0.44
36:1:2870:C:H6	36:1:2870:C:H2'	1.62	0.44
36:1:642:U:O5'	36:1:642:U:H6	2.01	0.44
36:1:66:A:O4'	51:M5:176:LYS:NZ	2.43	0.44
36:1:68:C:O3'	51:M5:177:GLY:HA2	2.16	0.44
1:2:1436:G:H2'	1:2:1437:G:H8	1.82	0.44
1:2:1618:A:H8	1:2:1618:A:O5'	2.00	0.44
1:2:1736:A:C6	1:2:1737:A:C6	3.06	0.44
1:2:1742:C:H2'	1:2:1743:G:O4'	2.18	0.44
1:2:72:A:N7	8:S6:169:TYR:HE2	2.16	0.44
1:2:736:A:OP1	6:S4:220:THR:HG22	2.17	0.44
1:2:753:A:OP2	92:2:2020:OHX:N6	2.50	0.44
49:M3:5:LYS:HE2	85:5:1112:A:P	170.29	0.44
39:L2:187:HIS:CD2	85:5:1794:G:C5	199.78	0.44
85:5:1867:A:C6	85:5:1868:G:C6	3.06	0.44
85:5:1913:A:N3	85:5:2120:A:H2'	2.32	0.44
85:5:2278:C:N3	85:5:2307:G:C2	2.86	0.44
85:5:2516:U:H3	85:5:2591:A:H2	1.65	0.44
85:5:2656:A:C2	85:5:2658:G:C5	3.05	0.44
85:5:2950:G:C4	85:5:2979:U:C4	3.06	0.44
85:5:3275:U:O4'	85:5:3275:U:OP1	2.35	0.44
85:5:662:U:H2'	85:5:663:C:C6	2.51	0.44
41:L4:31:ARG:NH2	85:5:674:G:OP1	140.30	0.44
85:5:764:U:C2'	85:5:765:C:H2'	2.46	0.44
85:5:856:G:O6	85:5:857:G:N1	2.50	0.44
85:5:956:U:H2'	85:5:957:C:H6	1.81	0.44
80:6:1395:G:C6	80:6:1396:U:C2	3.06	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S3:7:LYS:HB2	80:6:1515:A:OP2	441.92	0.44
80:6:296:U:C4	80:6:297:U:C4	3.05	0.44
80:6:40:A:C2	80:6:469:C:C6	3.06	0.44
80:6:514:G:O2'	80:6:515:A:H8	2.00	0.44
80:6:516:G:H2'	80:6:516:G:N3	2.32	0.44
80:6:813:U:H3'	80:6:814:A:H4'	1.99	0.44
80:6:998:A:C5	80:6:999:U:C4	3.05	0.44
38:8:72:A:N3	38:8:88:A:O2'	2.46	0.44
38:8:80:A:H8	38:8:80:A:OP2	2.00	0.44
15:C3:33:VAL:O	15:C3:36:GLN:N	2.69	0.44
15:C3:30:SER:N	15:C3:66:ILE:HD11	2.32	0.44
17:C5:13:LYS:HA	17:C5:13:LYS:HD2	1.75	0.44
18:C6:83:GLN:OE1	18:C6:119:ALA:HA	2.18	0.44
19:C7:44:LYS:HG2	19:C7:48:ASN:HD21	1.82	0.44
21:C9:47:PRO:HA	80:6:1477:G:O2'	373.97	0.44
23:D1:60:ARG:HG2	23:D1:65:SER:HB2	2.63	0.44
27:D5:46:LYS:HE3	27:D5:46:LYS:HB2	4.45	0.44
28:D6:95:ARG:NH1	80:6:1796:C:O2'	341.00	0.44
30:D8:12:VAL:CG1	30:D8:50:GLU:HA	3.39	0.44
30:D8:12:VAL:HG11	30:D8:50:GLU:HA	3.08	0.44
7:S5:159:ALA:HB3	30:D8:61:ARG:HH12	3.70	0.44
40:L3:166:ILE:O	40:L3:169:THR:HG22	3.68	0.44
41:L4:101:ALA:O	41:L4:102:PRO:C	2.53	0.44
41:L4:302:ALA:N	54:M8:39:ARG:NH1	2.65	0.44
42:L5:95:TRP:HZ3	42:L5:156:GLY:C	8.83	0.44
36:1:2747:A:P	42:L5:176:SER:HG	2.40	0.44
44:L7:145:ARG:HA	44:L7:185:ILE:HD11	2.00	0.44
45:L8:57:ARG:O	45:L8:61:GLN:HG3	2.63	0.44
46:L9:68:LEU:O	46:L9:70:THR:N	3.47	0.44
46:L9:90:MET:HE2	46:L9:90:MET:HB3	1.41	0.44
48:M1:109:HIS:HD2	48:M1:123:PHE:H	1.63	0.44
51:M5:74:PRO:O	51:M5:75:VAL:O	2.35	0.44
52:M6:121:PRO:O	52:M6:124:LEU:HB2	3.47	0.44
52:M6:193:GLN:O	52:M6:196:ALA:HB3	2.16	0.44
53:M7:100:ALA:O	53:M7:103:GLU:HB3	2.17	0.44
53:M7:32:THR:HG21	53:M7:87:SER:HB3	2.05	0.44
54:M8:30:VAL:O	54:M8:32:LEU:N	2.51	0.44
54:M8:18:ALA:HA	54:M8:53:PHE:CE1	2.96	0.44
57:N1:102:ARG:CG	57:N1:102:ARG:HH11	2.25	0.44
57:N1:68:THR:HG22	57:N1:71:SER:O	2.33	0.44
57:N1:91:LEU:HD12	57:N1:96:ILE:HD13	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:358:TRP:CZ2	60:N4:14:TYR:HD1	5.49	0.44
63:N7:121:ARG:HH11	63:N7:126:LYS:HB3	1.83	0.44
68:O2:105:ARG:HH11	68:O2:105:ARG:HD2	1.74	0.44
68:O2:50:ILE:H	68:O2:50:ILE:HG23	1.45	0.44
63:N7:136:PHE:CE1	70:O4:89:ILE:HG12	2.92	0.44
72:O6:98:ARG:HD2	72:O6:98:ARG:N	2.25	0.44
79:Q3:23:ARG:HD2	79:Q3:23:ARG:HH11	1.45	0.44
79:Q3:49:ARG:HD3	79:Q3:51:ALA:C	3.45	0.44
3:S1:92:GLN:HG3	3:S1:92:GLN:O	2.16	0.44
6:S4:118:GLU:HG3	6:S4:121:TYR:CE1	2.52	0.44
11:S9:163:PRO:HG2	11:S9:164:PHE:CD2	2.53	0.44
11:S9:171:ARG:HA	11:S9:174:ARG:HB2	3.34	0.44
34:SR:288:HIS:CE1	34:SR:306:THR:HG21	2.51	0.44
36:1:1066:G:C6	36:1:1067:U:O4	2.71	0.44
36:1:1186:G:N3	56:N0:112:ALA:HB1	2.33	0.44
36:1:1339:C:H2'	36:1:1340:G:O4'	2.18	0.44
36:1:1466:G:O6	92:1:3415:OHX:N2	2.50	0.44
36:1:2123:G:O2'	36:1:2124:G:H5'	2.18	0.44
36:1:2780:A:O3'	49:M3:181:GLY:HA3	2.18	0.44
92:1:3565:OHX:N5	92:1:3578:OHX:N1	2.65	0.44
36:1:613:G:C2	36:1:614:C:C2	3.05	0.44
36:1:668:G:C8	36:1:795:G:N2	2.86	0.44
36:1:702:C:C4	36:1:703:G:N7	2.86	0.44
36:1:735:A:H2'	36:1:736:A:H8	1.81	0.44
1:2:1469:G:C6	1:2:1505:U:H5	2.35	0.44
1:2:1710:G:H2'	1:2:1711:A:C8	2.53	0.44
1:2:1779:C:OP1	28:D6:87:ARG:NH1	2.51	0.44
1:2:267:U:H6	1:2:267:U:O5'	2.01	0.44
1:2:361:C:C2	1:2:384:G:C2	3.06	0.44
1:2:417:A:H8	1:2:417:A:O5'	2.01	0.44
1:2:53:G:C2	1:2:428:A:C2	3.05	0.44
1:2:832:C:N3	1:2:833:A:N7	2.65	0.44
1:2:903:U:H2'	1:2:904:U:O4'	2.18	0.44
37:3:26:C:H5''	37:3:27:A:OP2	2.17	0.44
38:4:127:U:C2'	38:4:128:U:H5'	2.48	0.44
38:4:85:G:H3'	38:4:85:G:H8	1.80	0.44
85:5:1225:A:C4	85:5:1226:G:C8	3.06	0.44
85:5:1638:A:H5''	85:5:1639:C:OP2	2.17	0.44
85:5:1634:G:N2	85:5:1640:G:C4	2.86	0.44
85:5:1723:A:N1	85:5:1788:C:O2'	2.25	0.44
85:5:1846:C:C5'	85:5:1849:C:N4	2.78	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:2289:U:O5'	85:5:2289:U:H6	2.01	0.44
85:5:2381:G:C2'	85:5:2382:G:H5'	2.48	0.44
85:5:2406:C:H2'	85:5:2407:C:C6	2.53	0.44
85:5:2962:U:N3	85:5:2963:C:C5	2.86	0.44
85:5:3008:A:C6	85:5:3139:A:N1	2.86	0.44
85:5:3359:A:C2	85:5:3360:C:C2	3.05	0.44
85:5:3362:A:C2	85:5:3363:U:N3	2.86	0.44
85:5:2605:G:O6	92:5:3518:OHX:N4	2.50	0.44
73:O7:35:SER:HG	85:5:361:A:H5'	126.55	0.44
85:5:2310:U:P	92:5:3702:OHX:N4	2.89	0.44
85:5:433:A:C2	85:5:627:U:O2	2.71	0.44
85:5:793:C:C4	85:5:794:U:C4	3.06	0.44
80:6:772:G:C5	80:6:773:C:C5	3.06	0.44
80:6:773:C:H4'	80:6:774:A:OP1	2.17	0.44
13:C1:28:SER:OG	80:6:839:U:OP1	286.54	0.44
16:C4:54:GLU:OE1	80:6:901:G:N2	281.70	0.44
21:C9:10:ALA:HB3	21:C9:13:ASP:OD2	2.17	0.44
21:C9:28:LEU:HB3	21:C9:29:GLU:H	3.77	0.44
25:D3:56:LYS:HE3	25:D3:96:VAL:HG23	1.99	0.44
26:D4:6:THR:O	26:D4:28:LEU:HD12	5.22	0.44
27:D5:57:TYR:HB3	27:D5:60:VAL:HG13	1.99	0.44
1:2:917:C:C5	28:D6:95:ARG:CZ	3.01	0.44
29:D7:30:SER:HB2	29:D7:48:SER:OG	2.68	0.44
39:L2:195:SER:O	39:L2:198:LYS:HE3	2.17	0.44
40:L3:211:GLN:NE2	40:L3:284:ARG:HA	2.32	0.44
40:L3:2:SER:O	40:L3:3:HIS:HB3	2.23	0.44
41:L4:172:VAL:H	41:L4:172:VAL:HG23	4.15	0.44
41:L4:216:VAL:HG13	41:L4:227:THR:OG1	5.67	0.44
41:L4:59:GLN:OE1	73:O7:55:ARG:NH2	2.76	0.44
41:L4:94:CYS:HB3	85:5:1438:U:H4'	140.15	0.44
42:L5:222:LEU:HA	42:L5:222:LEU:HD23	4.34	0.44
44:L7:91:GLY:N	44:L7:111:ILE:HD12	3.34	0.44
45:L8:189:LEU:O	45:L8:189:LEU:HG	3.40	0.44
46:L9:49:ASN:ND2	46:L9:51:GLN:HB2	4.72	0.44
47:M0:68:ALA:HB2	47:M0:158:LYS:HB2	2.00	0.44
47:M0:206:LEU:O	47:M0:210:ILE:HG13	2.17	0.44
47:M0:7:ARG:HD2	47:M0:7:ARG:HH11	1.67	0.44
48:M1:124:GLY:O	85:5:2674:A:N6	322.30	0.44
48:M1:125:MET:HG3	48:M1:127:PHE:HE1	3.91	0.44
48:M1:33:ALA:HB2	48:M1:123:PHE:CZ	3.60	0.44
49:M3:116:LEU:HA	49:M3:116:LEU:HD23	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:M4:114:ASP:HA	50:M4:117:ARG:CZ	2.47	0.44
50:M4:38:ILE:HG21	50:M4:38:ILE:HD13	1.55	0.44
50:M4:94:TRP:O	50:M4:95:ALA:C	2.94	0.44
53:M7:102:ALA:O	53:M7:107:LEU:HB2	2.18	0.44
41:L4:30:ILE:N	54:M8:25:TYR:OH	2.64	0.44
54:M8:29:LEU:HA	54:M8:29:LEU:HD23	2.92	0.44
55:M9:176:ARG:HA	55:M9:176:ARG:HD3	1.84	0.44
55:M9:17:VAL:HG12	55:M9:18:GLY:H	1.81	0.44
62:N6:112:ASP:H	62:N6:115:ARG:HB2	2.19	0.44
62:N6:36:SER:CB	62:N6:39:LEU:HB2	2.43	0.44
62:N6:5:SER:HG	62:N6:7:ASP:H	1.61	0.44
63:N7:35:SER:O	63:N7:36:HIS:CB	4.19	0.44
64:N8:7:LYS:HD3	64:N8:7:LYS:HA	1.49	0.44
64:N8:79:TRP:CE3	64:N8:82:ILE:HD12	2.52	0.44
68:O2:55:ILE:HD12	68:O2:55:ILE:HA	2.23	0.44
71:O5:6:ALA:O	71:O5:10:ARG:HG3	4.22	0.44
75:O9:20:ASN:ND2	75:O9:20:ASN:O	2.51	0.44
2:S0:110:TYR:HA	2:S0:115:PHE:CE2	2.52	0.44
2:S0:185:ARG:CZ	23:D1:47:PRO:HG3	2.48	0.44
4:S2:90:THR:HG22	4:S2:93:GLY:C	2.38	0.44
5:S3:18:TYR:CE1	5:S3:37:VAL:HG23	2.53	0.44
6:S4:129:VAL:HB	6:S4:139:VAL:HG23	1.98	0.44
6:S4:212:ASP:OD1	6:S4:244:ILE:HG23	2.16	0.44
7:S5:162:VAL:HG23	7:S5:166:ARG:HB3	2.00	0.44
7:S5:190:ILE:HD12	7:S5:190:ILE:HG23	1.64	0.44
1:2:283:U:H5''	8:S6:188:ARG:HD3	1.99	0.44
9:S7:102:PRO:HA	9:S7:106:SER:O	7.10	0.44
9:S7:46:ILE:CD1	9:S7:60:ILE:HG23	3.67	0.44
10:S8:45:SER:HA	10:S8:55:TYR:HA	1.99	0.44
11:S9:83:VAL:HG23	11:S9:85:VAL:HG23	2.70	0.44
34:SR:19:TRP:HB2	34:SR:38:ARG:HD2	2.57	0.44
36:1:1004:U:O2	36:1:1005:G:C8	2.71	0.44
36:1:1240:A:H2	36:1:1248:C:H41	1.63	0.44
36:1:1584:U:H2'	36:1:1585:C:H6	1.83	0.44
36:1:1633:C:O2'	36:1:1634:G:H5'	2.17	0.44
36:1:1710:C:H2'	36:1:1711:C:C6	2.53	0.44
36:1:209:A:P	41:L4:161:LYS:NZ	2.90	0.44
36:1:2317:A:C2	36:1:2318:U:N1	2.86	0.44
36:1:2590:A:C6	36:1:2591:A:C5	3.05	0.44
36:1:2761:G:C4	36:1:2795:U:C5	3.06	0.44
36:1:613:G:H2'	36:1:614:C:C6	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:677:A:C8	36:1:786:A:C6	3.05	0.44
36:1:740:G:H2'	36:1:741:U:O4'	2.17	0.44
1:2:1075:A:C4	1:2:1077:G:C8	3.06	0.44
1:2:1612:G:C5	1:2:1613:U:C5	3.06	0.44
92:2:1970:OHX:N4	92:2:1985:OHX:N4	2.66	0.44
1:2:3:U:O2'	1:2:4:C:O4'	2.34	0.44
1:2:423:G:OP1	92:2:1920:OHX:N6	2.50	0.44
1:2:67:A:C2	1:2:69:G:H1'	2.53	0.44
1:2:734:G:H2'	1:2:735:A:H8	1.82	0.44
1:2:85:A:H4'	26:D4:120:GLY:O	2.18	0.44
37:3:41:G:H1'	37:3:44:C:H42	1.83	0.44
85:5:1020:G:H2'	85:5:1021:G:O4'	2.17	0.44
85:5:1121:U:C4	85:5:1122:U:C4	3.06	0.44
85:5:1148:G:C6	85:5:1149:G:C8	3.05	0.44
66:O0:85:PHE:CE2	85:5:1728:G:C6	251.86	0.44
79:Q3:34:HIS:CE1	85:5:1791:C:OP1	222.13	0.44
85:5:240:U:O2'	85:5:241:G:O5'	2.33	0.44
66:O0:53:LYS:HZ1	85:5:2552:C:H5	241.20	0.44
85:5:2619:G:H2'	85:5:2620:G:O4'	2.18	0.44
85:5:2684:C:C4	85:5:2685:C:N4	2.86	0.44
85:5:2725:U:H5	85:5:2726:C:C5	2.35	0.44
85:5:2819:A:O2'	85:5:2820:A:H5'	2.17	0.44
47:M0:160:PRO:HD3	85:5:2854:U:C5'	293.37	0.44
85:5:3022:G:N2	85:5:3023:U:O4	2.38	0.44
85:5:3260:G:C2	85:5:3261:C:C2	3.04	0.44
85:5:386:A:H8	85:5:386:A:O5'	2.01	0.44
49:M3:58:VAL:HG22	85:5:75:G:OP1	85.66	0.44
80:6:1497:U:H2'	80:6:1498:G:O4'	2.17	0.44
10:S8:178:ARG:NH2	80:6:258:C:O2	282.43	0.44
80:6:119:A:H1'	80:6:397:A:C4	2.52	0.44
80:6:846:G:C2	80:6:847:A:C4	3.06	0.44
37:7:22:A:O2'	37:7:23:A:H5'	2.17	0.44
38:8:46:G:N3	38:8:58:G:C2	2.86	0.44
20:C8:145:ARG:HG3	35:SM:68:ARG:HH22	4.05	0.44
20:C8:27:LYS:HB3	20:C8:27:LYS:HE2	4.43	0.44
24:D2:94:LEU:HD11	24:D2:102:VAL:HG23	2.00	0.44
27:D5:52:LYS:HD3	27:D5:52:LYS:HA	1.83	0.44
31:D9:31:ILE:HG22	31:D9:31:ILE:O	2.27	0.44
36:1:2178:A:H2'	39:L2:151:PRO:HB2	1.99	0.44
40:L3:110:LEU:HA	40:L3:110:LEU:HD12	1.73	0.44
36:1:3294:A:H5'	40:L3:128:LYS:HG3	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:24:SER:O	40:L3:220:VAL:HG21	2.52	0.44
36:1:2941:A:N7	40:L3:255:TRP:CZ2	2.85	0.44
40:L3:74:GLU:CD	40:L3:283:TYR:HH	2.65	0.44
37:3:33:U:C2	42:L5:207:TYR:CD2	3.06	0.44
43:L6:69:PHE:CE1	85:5:3268:A:C4	257.48	0.44
44:L7:195:PHE:O	44:L7:199:ASN:HB2	2.18	0.44
45:L8:134:TYR:CG	45:L8:190:VAL:HG21	2.53	0.44
45:L8:42:PRO:O	45:L8:44:ARG:HG2	4.02	0.44
45:L8:46:LEU:HD12	61:N5:28:THR:C	3.60	0.44
36:1:3187:A:H5'	46:L9:22:SER:HA	2.00	0.44
46:L9:75:VAL:O	46:L9:78:MET:HB2	2.18	0.44
47:M0:58:GLU:OE2	47:M0:161:GLY:HA3	2.18	0.44
48:M1:100:GLY:HA2	48:M1:155:THR:O	3.18	0.44
48:M1:85:LYS:HA	48:M1:89:TYR:CE2	2.67	0.44
49:M3:18:TRP:C	49:M3:20:GLU:N	2.70	0.44
52:M6:84:LEU:O	52:M6:86:GLY:N	2.55	0.44
54:M8:131:ALA:HB1	54:M8:135:GLN:N	2.46	0.44
54:M8:170:ARG:HG3	54:M8:171:LYS:HG3	2.16	0.44
54:M8:179:ARG:HD3	85:5:2789:U:OP1	174.72	0.44
54:M8:18:ALA:HB1	54:M8:19:PRO:HD2	1.99	0.44
59:N3:85:TRP:CH2	59:N3:93:LEU:HG	2.53	0.44
62:N6:17:LYS:O	62:N6:21:THR:HG23	2.37	0.44
69:O3:37:THR:O	69:O3:79:GLY:HA2	2.18	0.44
73:O7:65:ARG:HH11	73:O7:65:ARG:HG3	1.96	0.44
75:O9:43:ASN:C	75:O9:43:ASN:OD1	2.61	0.44
77:Q1:22:ALA:C	77:Q1:24:SER:H	2.20	0.44
79:Q3:84:ARG:CZ	79:Q3:88:GLU:OE2	2.61	0.44
2:S0:72:ASP:HB2	2:S0:118:PRO:HA	2.00	0.44
3:S1:148:ASN:ND2	80:6:1066:C:O2'	349.22	0.44
3:S1:35:PRO:HG3	3:S1:98:THR:O	2.17	0.44
4:S2:139:ILE:CD1	4:S2:191:ALA:HB1	2.63	0.44
5:S3:94:ARG:NH2	5:S3:125:TYR:OH	4.16	0.44
7:S5:63:GLN:HB3	7:S5:64:VAL:H	1.67	0.44
8:S6:3:LEU:O	8:S6:15:THR:HA	2.18	0.44
34:SR:180:ALA:O	34:SR:189:GLU:HB3	2.18	0.44
34:SR:274:LEU:HD13	34:SR:313:TRP:CD2	2.53	0.44
34:SR:48:THR:HG22	34:SR:55:GLY:HA2	5.18	0.44
36:1:1004:U:N3	36:1:1005:G:C5	2.86	0.44
36:1:971:G:O2'	36:1:1371:G:H1'	2.17	0.44
36:1:1482:A:H4'	36:1:1483:G:OP2	2.18	0.44
36:1:1792:C:H5''	36:1:1793:C:P	2.58	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2273:G:O2'	36:1:2274:U:OP2	2.35	0.44
36:1:2317:A:C6	36:1:2318:U:C4	3.05	0.44
36:1:2442:G:N2	36:1:2505:U:H3	2.16	0.44
36:1:2738:A:H5'	65:N9:36:ASP:OD1	2.17	0.44
36:1:2416:U:C2	36:1:2805:G:C2	3.05	0.44
36:1:3066:U:H2'	36:1:3067:C:C6	2.52	0.44
36:1:3084:C:H2'	36:1:3085:G:O4'	2.18	0.44
97:1:3403:SPS:H71	97:1:3403:SPS:H81	1.65	0.44
36:1:409:A:H3'	36:1:410:U:H6	1.82	0.44
36:1:439:C:H5'	36:1:440:A:C8	2.53	0.44
36:1:560:G:O2'	36:1:561:C:H5'	2.17	0.44
36:1:561:C:H2'	36:1:562:C:C6	2.53	0.44
1:2:1271:G:N2	1:2:1272:U:C2	2.86	0.44
1:2:1184:G:H22	1:2:1583:A:H5'	1.83	0.44
1:2:844:U:H5'	1:2:845:A:OP2	2.18	0.44
37:3:30:G:C5	37:3:31:U:C5	3.06	0.44
38:4:11:C:H2'	38:4:12:A:C8	2.53	0.44
63:N7:15:ARG:HG2	85:5:1638:A:OP1	211.15	0.44
85:5:1640:G:O2'	85:5:1641:U:H5'	2.18	0.44
85:5:2124:G:O2'	85:5:2125:A:H5'	2.17	0.44
85:5:2183:A:C6	85:5:2184:U:C5	3.06	0.44
51:M5:50:ARG:NH1	85:5:268:A:OP2	115.07	0.44
85:5:2878:G:O2'	85:5:2879:C:H5'	2.18	0.44
85:5:2947:G:OP2	85:5:2947:G:H4'	2.18	0.44
85:5:2970:C:H6	85:5:2970:C:O5'	2.00	0.44
85:5:300:G:H2'	85:5:301:G:H8	1.82	0.44
59:N3:12:ARG:NH2	85:5:3092:C:O2'	253.11	0.44
85:5:3234:A:H8	85:5:3234:A:O5'	2.01	0.44
62:N6:89:LYS:NZ	85:5:375:A:P	76.45	0.44
85:5:680:G:N2	85:5:701:G:C4	2.86	0.44
85:5:754:G:C2	85:5:755:A:C8	3.06	0.44
80:6:1478:G:C6	80:6:1479:A:C5	3.05	0.44
80:6:1588:G:H1	80:6:1608:U:H3	1.66	0.44
80:6:1620:C:C2	80:6:1621:U:C5	3.06	0.44
80:6:1625:C:C2'	80:6:1626:U:H5'	2.47	0.44
92:6:1914:OHX:N1	92:6:1998:OHX:N4	2.65	0.44
80:6:341:A:H2'	80:6:342:C:C6	2.53	0.44
80:6:40:A:H2'	80:6:41:A:O4'	2.17	0.44
80:6:492:A:H1'	80:6:496:G:H1	1.82	0.44
80:6:865:A:C5	80:6:866:G:N7	2.86	0.44
29:D7:28:PRO:HB3	80:6:959:U:H5'	350.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
92:5:3706:OHX:N1	92:8:210:OHX:N5	2.65	0.44
12:C0:27:PHE:O	12:C0:28:ASN:HB2	2.28	0.44
17:C5:21:ASP:O	17:C5:24:LYS:N	3.00	0.44
19:C7:27:ASP:OD2	19:C7:30:THR:N	2.37	0.44
19:C7:23:LYS:HB3	19:C7:34:LEU:HD11	2.00	0.44
21:C9:33:TYR:OH	21:C9:99:SER:O	3.50	0.44
22:D0:67:THR:HG22	22:D0:68:ARG:O	2.18	0.44
22:D0:50:LEU:CD2	22:D0:95:ALA:HB2	2.42	0.44
23:D1:74:GLN:HG3	23:D1:79:LEU:O	2.18	0.44
25:D3:35:GLY:O	25:D3:36:THR:C	2.53	0.44
28:D6:28:LYS:HG2	28:D6:29:SER:N	2.33	0.44
32:E0:14:VAL:HA	32:E0:17:GLN:HG2	1.98	0.44
39:L2:40:TYR:HA	39:L2:90:ALA:O	2.35	0.44
40:L3:153:LYS:NZ	40:L3:154:TYR:OH	4.22	0.44
40:L3:188:ILE:HG13	40:L3:188:ILE:H	1.28	0.44
40:L3:243:HIS:O	40:L3:244:ARG:C	2.84	0.44
41:L4:16:THR:HG23	41:L4:18:ASN:N	2.90	0.44
41:L4:258:LEU:O	41:L4:259:ASP:C	2.59	0.44
41:L4:283:THR:HB	41:L4:285:ASP:H	3.17	0.44
41:L4:71:VAL:HG22	41:L4:72:ALA:N	2.32	0.44
42:L5:102:GLY:HA2	42:L5:105:ILE:HB	2.00	0.44
42:L5:140:ARG:HH21	42:L5:140:ARG:HD3	1.93	0.44
42:L5:215:ASP:OD1	42:L5:218:ARG:HG3	2.17	0.44
42:L5:258:LYS:HA	42:L5:258:LYS:HD3	1.62	0.44
42:L5:7:ALA:O	92:5:3660:OHX:N6	315.31	0.44
44:L7:170:GLU:HB2	44:L7:179:LEU:HB3	2.83	0.44
47:M0:46:PHE:CD2	47:M0:139:ARG:HG3	2.52	0.44
48:M1:32:ARG:O	48:M1:36:VAL:HG23	2.17	0.44
49:M3:51:LEU:HD12	49:M3:139:LEU:HD13	1.99	0.44
50:M4:16:GLU:O	50:M4:17:VAL:C	2.84	0.44
50:M4:39:ILE:H	50:M4:44:VAL:HA	1.83	0.44
51:M5:13:LYS:O	51:M5:19:LEU:HD22	3.06	0.44
52:M6:166:GLU:O	52:M6:167:TYR:C	2.56	0.44
54:M8:123:THR:OG1	54:M8:125:ASP:OD2	2.35	0.44
56:N0:156:VAL:O	56:N0:156:VAL:HG13	2.18	0.44
57:N1:54:HIS:C	57:N1:56:PHE:N	2.82	0.44
57:N1:40:VAL:HB	57:N1:96:ILE:HG13	1.99	0.44
59:N3:13:ILE:HD12	59:N3:85:TRP:CD2	3.71	0.44
61:N5:56:ARG:HG2	38:8:134:G:OP1	78.30	0.44
61:N5:59:SER:HB3	61:N5:98:ALA:CB	2.48	0.44
65:N9:43:HIS:CE1	65:N9:47:LEU:HD11	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
71:O5:17:LEU:HA	71:O5:17:LEU:HD23	1.99	0.44
71:O5:21:LEU:HA	71:O5:21:LEU:HD23	2.95	0.44
71:O5:54:VAL:O	71:O5:58:ILE:HG13	2.40	0.44
73:O7:16:HIS:HA	73:O7:27:PHE:O	2.46	0.44
73:O7:70:VAL:HG12	73:O7:70:VAL:O	2.41	0.44
2:S0:175:TYR:O	2:S0:178:ALA:HB3	3.14	0.44
3:S1:232:HIS:HB3	3:S1:233:GLY:H	3.69	0.44
7:S5:98:MET:HE1	7:S5:105:GLY:HA2	1.98	0.44
7:S5:98:MET:HB2	7:S5:105:GLY:O	2.17	0.44
8:S6:84:TYR:HE2	8:S6:93:LYS:HD2	1.83	0.44
8:S6:75:LEU:O	8:S6:94:ARG:HA	2.18	0.44
9:S7:34:LEU:O	9:S7:38:LEU:HB2	4.06	0.44
9:S7:61:PHE:HA	9:S7:93:LEU:O	2.21	0.44
10:S8:187:GLU:O	10:S8:190:ALA:HB3	2.17	0.44
11:S9:108:ARG:NH2	11:S9:144:PRO:HB2	3.21	0.44
11:S9:92:LYS:O	11:S9:96:VAL:HG13	5.10	0.44
34:SR:95:ALA:C	34:SR:97:GLY:H	3.67	0.44
36:1:1148:G:C6	36:1:1149:G:N7	2.86	0.44
36:1:1470:U:H2'	36:1:1471:U:C6	2.53	0.44
36:1:1500:G:H2'	36:1:1501:U:O4'	2.17	0.44
36:1:1729:A:C6	79:Q3:42:CYS:HA	2.53	0.44
36:1:1778:G:C2	36:1:1780:G:C8	3.06	0.44
36:1:177:U:C4	36:1:178:U:C4	3.06	0.44
36:1:2518:C:C4	36:1:2590:A:C2	3.05	0.44
35:SM:44:PRO:HA	36:1:2678:A:C4	2.53	0.44
36:1:268:A:C6	51:M5:12:ARG:HB3	2.53	0.44
36:1:2896:A:OP2	76:Q0:102:ARG:NH2	2.37	0.44
36:1:2951:G:H2'	36:1:2951:G:N3	2.32	0.44
36:1:3205:G:H5''	50:M4:102:LYS:NZ	2.33	0.44
36:1:3231:U:H6	36:1:3231:U:O5'	2.00	0.44
36:1:3324:C:O2'	67:O1:105:GLN:HA	2.17	0.44
36:1:3335:A:H2'	36:1:3336:A:C8	2.52	0.44
36:1:1942:U:O2'	36:1:3345:G:O2'	2.36	0.44
36:1:342:A:C2	36:1:349:A:C8	3.06	0.44
92:1:3525:OHX:N5	92:1:3563:OHX:N2	2.66	0.44
36:1:703:G:O2'	36:1:787:G:H4'	2.17	0.44
36:1:834:U:C5	36:1:835:G:C6	3.06	0.44
1:2:1340:A:N1	1:2:1341:G:C5	2.86	0.44
1:2:1583:A:H4'	1:2:1584:G:OP1	2.18	0.44
1:2:1644:U:H2'	1:2:1645:G:H8	1.80	0.44
1:2:1665:U:O2'	1:2:1666:C:H5'	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:278:U:OP1	1:2:279:G:N2	2.51	0.44
1:2:29:U:H2'	1:2:30:G:H8	1.81	0.44
1:2:482:U:H2'	1:2:483:A:H8	1.83	0.44
1:2:850:G:C4	1:2:851:G:C8	3.06	0.44
37:3:90:U:C4	37:3:91:G:C5	3.04	0.44
85:5:1290:A:C2	85:5:1291:A:C4	3.05	0.44
85:5:128:G:O2'	85:5:129:U:H5'	2.17	0.44
85:5:1423:C:H6	85:5:1423:C:O5'	2.00	0.44
85:5:1710:C:H2'	85:5:1711:C:O4'	2.18	0.44
85:5:1756:C:O2	85:5:1770:G:C2	2.71	0.44
85:5:1783:U:H2'	85:5:1784:G:C8	2.52	0.44
85:5:1919:G:N2	85:5:1920:U:C2	2.86	0.44
85:5:2136:C:O2'	85:5:2137:U:H5'	2.17	0.44
76:Q0:102:ARG:NE	85:5:2896:A:OP1	320.19	0.44
85:5:869:G:OP2	92:5:3470:OHX:N3	2.51	0.44
85:5:91:G:C2	85:5:96:G:C6	3.05	0.44
80:6:1003:A:C2	80:6:1005:A:C2	3.06	0.44
80:6:116:U:H2'	80:6:116:U:O2	2.18	0.44
80:6:1294:G:O6	92:6:1923:OHX:N5	2.50	0.44
18:C6:26:LYS:NZ	80:6:1364:G:O2'	434.28	0.44
80:6:145:A:HO2'	80:6:146:U:P	2.38	0.44
80:6:1625:C:O2'	80:6:1626:U:H5'	2.18	0.44
80:6:558:U:O2'	80:6:559:C:O5'	2.35	0.44
80:6:551:G:C8	80:6:582:U:C5	3.06	0.44
13:C1:102:LYS:NZ	80:6:632:U:OP1	324.89	0.44
80:6:63:G:C2	80:6:64:U:C6	3.05	0.44
80:6:733:A:H2'	80:6:734:A:O4'	2.18	0.44
80:6:823:G:C5	80:6:850:A:C2	3.06	0.44
12:C0:38:LYS:HB2	12:C0:41:TYR:CE2	4.18	0.44
13:C1:127:GLN:HA	13:C1:137:PHE:HA	1.99	0.44
15:C3:18:TYR:CD2	24:D2:56:HIS:CE1	3.05	0.44
15:C3:35:GLU:O	15:C3:39:LYS:HB2	2.18	0.44
19:C7:81:LYS:HB2	19:C7:81:LYS:HE3	1.71	0.44
20:C8:27:LYS:O	20:C8:31:ALA:N	3.08	0.44
21:C9:124:ILE:HD12	21:C9:125:SER:H	1.83	0.44
21:C9:16:ASN:HA	21:C9:56:LYS:HZ2	2.77	0.44
22:D0:22:ILE:HG22	22:D0:93:LEU:O	2.18	0.44
25:D3:103:LEU:HD22	25:D3:104:LEU:O	2.94	0.44
28:D6:15:ARG:O	28:D6:17:HIS:N	2.50	0.44
30:D8:19:THR:OG1	30:D8:27:GLN:HG3	2.18	0.44
40:L3:329:PRO:HA	85:5:3047:U:H5'	233.14	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:49:TYR:CZ	40:L3:166:ILE:HG13	2.53	0.44
41:L4:22:LEU:HA	41:L4:22:LEU:HD23	2.08	0.44
41:L4:71:VAL:HG22	41:L4:72:ALA:H	1.83	0.44
42:L5:260:PHE:HA	42:L5:264:GLN:OE1	3.12	0.44
42:L5:59:ASP:OD1	42:L5:81:HIS:CD2	2.71	0.44
45:L8:238:LEU:N	45:L8:238:LEU:HD12	2.78	0.44
45:L8:30:THR:O	45:L8:31:PRO:C	2.56	0.44
46:L9:103:ILE:HD11	46:L9:134:ILE:CG2	2.47	0.44
46:L9:84:LYS:NZ	46:L9:191:LEU:HD22	2.31	0.44
48:M1:96:PHE:CD2	48:M1:96:PHE:N	3.08	0.44
49:M3:9:ILE:HG22	49:M3:9:ILE:O	3.64	0.44
50:M4:118:PHE:O	50:M4:122:VAL:HG23	2.18	0.44
50:M4:124:ARG:HG3	52:M6:194:LEU:HD21	1.99	0.44
50:M4:19:ARG:HA	50:M4:69:THR:HG22	2.70	0.44
36:1:268:A:N1	51:M5:12:ARG:HB3	2.33	0.44
52:M6:108:ILE:CG1	52:M6:108:ILE:O	4.37	0.44
53:M7:117:ILE:HG23	53:M7:117:ILE:O	2.18	0.44
53:M7:133:HIS:O	53:M7:135:ARG:HG3	2.18	0.44
53:M7:67:ILE:HD12	53:M7:82:ARG:CZ	3.78	0.44
53:M7:94:LEU:HA	53:M7:94:LEU:HD12	1.78	0.44
54:M8:165:ILE:HD13	54:M8:165:ILE:HG21	1.54	0.44
54:M8:42:ALA:HB3	54:M8:45:ASN:ND2	2.32	0.44
55:M9:75:HIS:N	55:M9:75:HIS:ND1	2.66	0.44
57:N1:104:GLU:HG3	57:N1:105:PHE:N	2.32	0.44
42:L5:17:GLN:OE1	57:N1:21:LYS:N	2.51	0.44
57:N1:56:PHE:C	57:N1:58:GLN:N	2.71	0.44
58:N2:51:GLY:C	58:N2:53:ALA:N	2.70	0.44
40:L3:375:GLU:OE2	60:N4:14:TYR:OH	2.36	0.44
60:N4:8:PHE:CZ	60:N4:39:LEU:HB3	2.53	0.44
62:N6:48:LEU:HD23	62:N6:49:PRO:HD2	1.98	0.44
63:N7:86:THR:OG1	63:N7:87:LEU:N	2.50	0.44
64:N8:10:LYS:HE2	85:5:1375:G:O6	160.24	0.44
64:N8:101:VAL:HG22	64:N8:124:ILE:HB	1.98	0.44
67:O1:71:LEU:HA	67:O1:71:LEU:HD23	1.61	0.44
70:O4:99:LYS:HB3	70:O4:103:LYS:HZ2	1.81	0.44
91:P:75:C:O3'	98:P:101:8AN:H4'	2.18	0.44
4:S2:79:GLU:O	4:S2:102:VAL:HG13	2.53	0.44
5:S3:145:ALA:H	35:SM:101:ASP:CG	2.22	0.44
6:S4:31:PRO:CG	6:S4:38:LEU:HB2	5.96	0.44
8:S6:141:ILE:HB	8:S6:153:VAL:CG1	3.65	0.44
8:S6:71:THR:OG1	8:S6:72:ARG:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:161:U:O3'	8:S6:83:CYS:HA	2.18	0.44
9:S7:35:LYS:O	9:S7:37:GLU:N	2.43	0.44
10:S8:3:ILE:HG22	10:S8:4:SER:H	3.09	0.44
35:SM:68:ARG:HH22	35:SM:72:ARG:HD3	3.72	0.44
34:SR:116:ASP:HB3	34:SR:121:MET:HB3	1.99	0.44
36:1:1227:C:H5'	36:1:1228:C:OP2	2.17	0.44
36:1:1341:U:C2	36:1:1342:C:C5	3.06	0.44
36:1:1550:C:H2'	36:1:1551:C:C6	2.53	0.44
36:1:1760:A:N3	36:1:1766:G:C2	2.86	0.44
36:1:1815:U:O2'	36:1:1816:A:P	2.76	0.44
36:1:2533:G:H2'	36:1:2534:G:O4'	2.18	0.44
36:1:278:U:H2'	36:1:279:U:O4'	2.18	0.44
36:1:2960:C:OP1	92:1:3534:OHX:N2	2.51	0.44
36:1:3095:U:H2'	36:1:3096:C:H6	1.83	0.44
36:1:3317:U:H4'	36:1:3318:G:O5'	2.17	0.44
36:1:3325:G:C5	36:1:3326:G:N7	2.86	0.44
36:1:3357:U:H2'	36:1:3358:U:C6	2.53	0.44
36:1:8:C:H4'	45:L8:183:LYS:HZ1	1.81	0.44
36:1:92:G:H5'	36:1:93:C:O5'	2.17	0.44
1:2:1238:G:O6	14:C2:46:ARG:HD2	2.18	0.44
1:2:17:C:H2'	1:2:18:C:H6	1.79	0.44
1:2:447:U:O4	1:2:448:C:C4	2.71	0.44
1:2:521:A:H4'	26:D4:36:SER:HB2	2.00	0.44
1:2:538:A:H2	1:2:540:G:H1	1.66	0.44
1:2:602:U:H2'	1:2:603:U:H6	1.83	0.44
1:2:609:U:C4	1:2:1091:G:C8	3.05	0.44
37:3:54:U:H4'	37:3:55:A:O5'	2.18	0.44
38:4:108:C:H2'	38:4:109:A:O4'	2.18	0.44
38:4:114:G:N2	38:4:115:C:H1'	2.33	0.44
85:5:1025:A:H3'	85:5:1026:A:C5'	2.48	0.44
85:5:1222:G:O2'	85:5:1223:A:P	2.76	0.44
85:5:1238:C:O2'	85:5:1239:C:OP1	2.28	0.44
85:5:144:A:C6	85:5:145:G:C2	3.06	0.44
45:L8:54:GLU:HG3	85:5:1558:A:OP2	149.66	0.44
70:O4:67:LYS:HD3	85:5:1821:U:C2	168.46	0.44
85:5:2103:U:C2	85:5:2104:A:C8	3.06	0.44
85:5:2166:A:H8	85:5:2166:A:O5'	2.01	0.44
85:5:2563:G:H2'	85:5:2564:G:O4'	2.18	0.44
85:5:3335:A:C2	85:5:3336:A:C4	3.06	0.44
85:5:419:G:O3'	85:5:420:G:O5'	2.36	0.44
85:5:591:G:N2	85:5:612:U:OP1	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:1211:A:C6	80:6:1212:G:C5	3.06	0.44
80:6:1392:U:H2'	80:6:1393:C:H6	1.83	0.44
80:6:151:G:H22	80:6:163:G:N2	2.15	0.44
80:6:1653:C:C5	80:6:1654:G:N7	2.86	0.44
80:6:502:U:H3'	80:6:503:G:H8	1.83	0.44
25:D3:26:GLU:HG3	80:6:609:U:N3	341.31	0.44
80:6:75:U:O2'	80:6:76:A:O5'	2.28	0.44
56:N0:52:LYS:NZ	37:7:101:G:OP2	282.08	0.44
38:8:92:A:C2	38:8:93:U:C2	3.06	0.44
13:C1:98:ASN:O	13:C1:98:ASN:ND2	2.57	0.44
1:2:1002:A:OP2	15:C3:107:LYS:HE3	2.18	0.44
15:C3:125:LEU:HA	15:C3:125:LEU:HD23	2.34	0.44
16:C4:131:GLY:O	16:C4:132:ARG:C	2.81	0.44
20:C8:114:GLU:HA	20:C8:117:LYS:HB2	3.35	0.44
5:S3:40:ARG:HE	22:D0:110:PRO:HG3	3.69	0.44
22:D0:33:GLN:O	22:D0:37:VAL:HG23	2.36	0.44
25:D3:100:ASP:O	25:D3:101:GLU:C	3.53	0.44
29:D7:53:ALA:HB1	29:D7:62:ILE:HD11	2.68	0.44
31:D9:21:CYS:SG	31:D9:21:CYS:O	3.96	0.44
33:E1:97:LYS:HD3	80:6:1232:U:C5	435.22	0.44
39:L2:83:HIS:ND1	39:L2:84:THR:O	2.47	0.44
40:L3:37:ARG:CB	40:L3:186:GLY:HA2	2.48	0.44
40:L3:244:ARG:HH11	40:L3:244:ARG:HD3	1.66	0.44
40:L3:275:ARG:HH11	40:L3:275:ARG:HD2	1.67	0.44
40:L3:375:GLU:OE1	60:N4:14:TYR:OH	2.32	0.44
41:L4:24:ALA:C	41:L4:26:PHE:H	2.91	0.44
43:L6:171:PRO:HB2	69:O3:43:PHE:CE2	2.94	0.44
44:L7:60:ARG:HH22	85:5:517:G:P	305.88	0.44
46:L9:140:VAL:O	46:L9:140:VAL:HG22	2.47	0.44
36:1:2898:G:P	46:L9:173:ARG:HH22	2.41	0.44
46:L9:25:VAL:CG2	46:L9:38:LEU:HD12	2.48	0.44
48:M1:171:VAL:O	48:M1:172:LEU:HB2	2.17	0.44
51:M5:93:LYS:HD2	85:5:290:G:H1'	147.95	0.44
52:M6:124:LEU:HD12	52:M6:124:LEU:HA	1.95	0.44
52:M6:182:ASN:OD1	52:M6:186:ALA:HB2	6.21	0.44
54:M8:57:ILE:HD13	54:M8:57:ILE:HG21	1.68	0.44
54:M8:98:LYS:HB3	54:M8:99:THR:H	1.81	0.44
57:N1:35:LYS:O	57:N1:36:VAL:C	2.56	0.44
64:N8:44:ASN:OD1	64:N8:48:TYR:HD1	2.90	0.44
67:O1:51:LEU:HB3	67:O1:55:LEU:HD12	1.99	0.44
68:O2:100:ILE:N	68:O2:100:ILE:HD13	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
71:O5:20:GLN:O	71:O5:23:ASP:HB2	2.18	0.44
75:O9:7:PHE:HB2	85:5:1832:C:O2'	108.85	0.44
78:Q2:35:LEU:HD12	78:Q2:40:LYS:HG2	5.51	0.44
2:S0:199:PRO:HG2	2:S0:200:ASP:OD1	2.22	0.44
1:2:1497:U:C4	5:S3:4:LEU:HD12	2.53	0.44
6:S4:62:LYS:O	6:S4:65:LEU:N	3.59	0.44
7:S5:184:PHE:CD1	7:S5:185:ARG:HG3	2.53	0.44
7:S5:198:LEU:O	7:S5:202:ALA:N	2.61	0.44
8:S6:175:ILE:HB	8:S6:178:LEU:HD22	2.69	0.44
8:S6:48:TYR:CE2	8:S6:117:GLY:HA3	3.15	0.44
10:S8:184:LEU:HD12	10:S8:184:LEU:HA	2.07	0.44
10:S8:89:GLU:O	10:S8:93:THR:OG1	2.29	0.44
10:S8:9:HIS:CE1	10:S8:10:LYS:HD3	2.53	0.44
36:1:2831:G:C6	36:1:2832:C:N4	2.86	0.43
36:1:3078:U:O2	36:1:3078:U:H2'	2.17	0.43
36:1:739:G:O2'	36:1:740:G:H5'	2.17	0.43
36:1:898:U:H2'	36:1:899:U:O4'	2.18	0.43
1:2:1014:U:H4'	1:2:1015:G:OP2	2.17	0.43
1:2:1366:G:H2'	1:2:1367:A:C8	2.53	0.43
1:2:162:A:H2'	1:2:163:G:C2	2.52	0.43
1:2:1664:A:C8	1:2:1704:A:N3	2.85	0.43
1:2:420:A:H2'	1:2:421:A:O4'	2.18	0.43
1:2:526:A:H2'	1:2:527:A:O4'	2.18	0.43
1:2:643:G:N1	1:2:644:C:C4	2.86	0.43
1:2:654:C:H3'	1:2:655:G:H5''	2.00	0.43
1:2:826:U:H2'	1:2:827:A:C8	2.53	0.43
38:4:132:G:N7	92:4:211:OHX:N1	2.66	0.43
38:4:143:U:O5'	38:4:143:U:H6	2.00	0.43
85:5:1003:A:C2	85:5:1004:U:C2	3.06	0.43
85:5:1252:A:H2	85:5:1263:A:C2	2.35	0.43
85:5:1439:U:C2	85:5:1440:G:C8	3.06	0.43
85:5:1650:G:H2'	85:5:1651:U:O4'	2.18	0.43
85:5:2255:A:O2'	85:5:2256:A:OP2	2.31	0.43
85:5:268:A:O4'	85:5:270:U:H1'	2.18	0.43
85:5:2705:A:OP2	92:5:3404:OHX:N2	2.51	0.43
85:5:2817:A:OP1	85:5:2868:U:OP1	2.36	0.43
85:5:301:G:C5	85:5:302:U:C5	3.07	0.43
85:5:32:U:O5'	85:5:32:U:H6	2.00	0.43
85:5:2960:C:P	92:5:3475:OHX:N5	2.91	0.43
85:5:1170:A:OP2	92:5:3506:OHX:N4	2.51	0.43
64:N8:36:GLY:N	85:5:40:A:OP2	173.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:645:A:N7	85:5:649:A:C6	2.86	0.43
85:5:680:G:N2	85:5:701:G:C5	2.86	0.43
80:6:1090:C:C2'	80:6:1091:A:H5''	2.46	0.43
17:C5:128:HIS:HA	80:6:1180:C:O2'	334.68	0.43
80:6:1203:A:OP2	92:6:1982:OHX:N2	2.51	0.43
80:6:1394:G:H2'	80:6:1395:G:H8	1.82	0.43
80:6:1552:U:C4	80:6:1553:G:C6	3.05	0.43
80:6:675:U:H2'	80:6:676:G:C8	2.53	0.43
80:6:772:G:C6	80:6:773:C:C4	3.05	0.43
80:6:793:A:H3'	80:6:794:U:H5'	2.00	0.43
80:6:861:U:C5	80:6:862:A:C2	3.06	0.43
80:6:906:A:C6	80:6:907:A:C6	3.06	0.43
15:C3:109:LYS:HD2	80:6:975:C:H5''	281.91	0.43
37:7:1:G:N2	37:7:2:G:C4	2.86	0.43
37:7:59:U:C2	37:7:60:G:C8	3.06	0.43
14:C2:71:ILE:O	14:C2:75:VAL:HG23	2.18	0.43
16:C4:102:LEU:HD22	16:C4:105:LEU:HD11	2.00	0.43
1:2:1771:G:N7	16:C4:132:ARG:NE	2.66	0.43
17:C5:87:PRO:HD3	17:C5:112:LEU:HD22	2.00	0.43
18:C6:43:ILE:HG12	18:C6:43:ILE:H	1.51	0.43
19:C7:24:LEU:HA	19:C7:24:LEU:HD23	2.16	0.43
21:C9:22:LEU:HB3	21:C9:55:TYR:HD1	1.83	0.43
22:D0:108:ILE:H	22:D0:108:ILE:HG13	1.56	0.43
22:D0:23:ARG:HD2	22:D0:90:TYR:HB2	1.99	0.43
23:D1:9:VAL:O	23:D1:10:GLU:HB3	2.54	0.43
24:D2:70:ASN:HB2	24:D2:130:TYR:O	2.84	0.43
25:D3:76:LEU:HB2	25:D3:79:ASN:HB2	2.00	0.43
27:D5:92:ILE:HG13	27:D5:100:ILE:HG22	1.99	0.43
29:D7:50:ALA:O	29:D7:66:PRO:HB3	4.60	0.43
30:D8:16:LEU:HB2	30:D8:27:GLN:O	2.17	0.43
39:L2:27:ALA:HA	39:L2:75:ILE:HG22	2.73	0.43
39:L2:86:GLN:HG2	39:L2:88:ILE:HD11	2.78	0.43
40:L3:163:HIS:HA	40:L3:177:HIS:O	2.50	0.43
40:L3:43:LEU:HA	40:L3:43:LEU:HD12	1.64	0.43
41:L4:152:VAL:HG22	41:L4:172:VAL:HG21	2.00	0.43
41:L4:170:LYS:HD2	41:L4:175:HIS:ND1	4.97	0.43
41:L4:35:VAL:HG21	41:L4:244:LEU:HD21	2.33	0.43
41:L4:5:GLN:HA	41:L4:20:LEU:O	2.17	0.43
41:L4:82:THR:O	41:L4:84:ARG:N	2.51	0.43
44:L7:217:PRO:O	92:5:3506:OHX:N3	258.51	0.43
45:L8:139:VAL:HA	45:L8:142:LEU:HD12	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:L8:91:PHE:CD2	45:L8:185:ARG:NH1	2.85	0.43
46:L9:122:LYS:HG2	46:L9:123:ILE:N	2.33	0.43
46:L9:103:ILE:HG13	46:L9:136:PHE:CZ	2.53	0.43
46:L9:163:GLN:O	46:L9:166:ARG:HD3	2.17	0.43
48:M1:12:LEU:HD23	48:M1:133:ARG:NH1	5.26	0.43
48:M1:163:PHE:O	48:M1:163:PHE:CG	3.27	0.43
49:M3:75:PHE:C	49:M3:76:THR:O	2.52	0.43
51:M5:162:ARG:HB2	51:M5:164:LEU:HD12	1.99	0.43
51:M5:197:LEU:CD2	51:M5:199:LEU:HD21	2.45	0.43
52:M6:51:LYS:O	52:M6:52:LEU:C	2.87	0.43
53:M7:67:ILE:HB	53:M7:80:LYS:HG2	4.32	0.43
54:M8:182:LYS:HE2	64:N8:55:LYS:O	2.17	0.43
36:1:1364:C:O2'	54:M8:9:GLN:OE1	2.28	0.43
57:N1:131:GLN:HG3	57:N1:132:PRO:HD3	2.00	0.43
58:N2:11:ILE:C	58:N2:68:THR:HG22	7.10	0.43
64:N8:27:LYS:O	64:N8:28:HIS:CB	3.65	0.43
64:N8:58:MET:HE2	64:N8:58:MET:HB2	2.15	0.43
64:N8:73:LEU:HB2	64:N8:109:TYR:CD1	2.53	0.43
64:N8:78:LEU:HD23	64:N8:78:LEU:HA	2.59	0.43
64:N8:82:ILE:HD11	64:N8:102:ILE:HG12	2.97	0.43
68:O2:128:LEU:HA	68:O2:128:LEU:HD22	1.74	0.43
36:1:1739:U:H4'	70:O4:54:ILE:O	2.18	0.43
38:4:38:U:C2	71:O5:89:ARG:NH1	2.86	0.43
72:O6:100:HIS:O	72:O6:100:HIS:ND1	5.07	0.43
2:S0:56:LYS:HG3	2:S0:159:ALA:O	2.18	0.43
4:S2:238:SER:C	4:S2:240:LEU:N	2.70	0.43
8:S6:163:THR:HA	8:S6:168:THR:HG22	3.37	0.43
11:S9:2:PRO:HB3	80:6:381:C:OP2	357.16	0.43
34:SR:16:HIS:CD2	34:SR:20:VAL:HG22	2.53	0.43
36:1:643:U:O2'	36:1:1153:A:N1	2.41	0.43
36:1:1257:C:N4	36:1:1261:G:H22	2.15	0.43
36:1:1618:G:H4'	38:4:129:C:H1'	1.99	0.43
36:1:1658:G:C4	36:1:1796:G:C6	3.06	0.43
36:1:1685:C:N3	36:1:1686:U:C5	2.86	0.43
36:1:1765:U:OP1	36:1:1765:U:H4'	2.17	0.43
36:1:2100:A:H5'	36:1:2101:C:P	2.58	0.43
36:1:2196:C:C4	36:1:2242:A:N7	2.87	0.43
36:1:2273:G:O2'	36:1:2274:U:P	2.75	0.43
36:1:2299:A:C5	36:1:2300:G:C8	3.05	0.43
36:1:2766:U:OP1	78:Q2:39:GLY:N	2.50	0.43
36:1:2982:A:O3'	36:1:2983:C:O2	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3174:A:N1	36:1:3175:U:O4	2.51	0.43
36:1:3183:A:H2'	36:1:3184:A:H8	1.83	0.43
36:1:831:G:N7	92:1:3425:OHX:N1	2.66	0.43
36:1:688:G:C6	36:1:690:A:C4	3.06	0.43
36:1:834:U:H5	36:1:835:G:C6	2.36	0.43
36:1:992:A:N1	36:1:993:G:C6	2.86	0.43
1:2:1068:G:H2'	1:2:1070:A:OP2	2.18	0.43
1:2:1499:A:N7	22:D0:59:PRO:HD3	2.33	0.43
1:2:577:G:H2'	35:SM:99:LYS:HZ1	1.81	0.43
1:2:776:A:OP2	1:2:776:A:H8	2.01	0.43
1:2:912:A:N6	1:2:913:A:C2	2.86	0.43
1:2:852:A:C6	1:2:943:U:N3	2.86	0.43
92:4:217:OHX:N5	92:4:218:OHX:N1	2.65	0.43
38:4:97:A:H2'	38:4:98:U:H6	1.83	0.43
65:N9:8:THR:OG1	85:5:1136:A:OP2	227.56	0.43
85:5:1243:G:OP2	85:5:1243:G:H8	2.01	0.43
85:5:1299:U:H2'	85:5:1300:G:C8	2.52	0.43
85:5:1601:U:C5	85:5:1604:G:O6	2.70	0.43
85:5:2253:G:H5'	85:5:2254:U:OP2	2.18	0.43
85:5:2130:G:N1	85:5:2323:G:C6	2.86	0.43
85:5:2403:G:N2	85:5:2405:C:C2	2.86	0.43
85:5:2618:G:HO2'	85:5:2619:G:P	2.39	0.43
85:5:3197:G:C2	85:5:3199:G:C4	3.06	0.43
85:5:3279:A:C6	85:5:3280:U:C4	3.06	0.43
85:5:415:G:C2	38:8:9:A:C2	3.06	0.43
85:5:508:U:O4	92:5:3721:OHX:N1	2.51	0.43
85:5:676:G:O2'	85:5:678:G:H4'	2.17	0.43
85:5:706:A:C6	85:5:707:U:C4	3.05	0.43
85:5:817:A:OP2	85:5:817:A:H4'	2.18	0.43
80:6:1092:A:O2'	80:6:1093:A:H3'	2.17	0.43
80:6:108:A:C6	80:6:109:G:C6	3.06	0.43
80:6:1134:C:H2'	80:6:1135:U:O4'	2.19	0.43
80:6:1192:C:H3'	80:6:1193:A:H8	1.83	0.43
80:6:1563:C:H2'	80:6:1564:U:C6	2.53	0.43
80:6:1605:G:H2'	80:6:1606:C:H6	1.82	0.43
80:6:1751:C:H2'	80:6:1752:U:O4'	2.18	0.43
80:6:54:C:H2'	80:6:55:A:C8	2.51	0.43
80:6:703:G:H2'	80:6:704:C:C6	2.53	0.43
80:6:783:G:H2'	80:6:784:C:C6	2.53	0.43
80:6:748:U:C2	80:6:802:G:N1	2.86	0.43
37:7:30:G:C6	37:7:31:U:C4	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:5:G:C6	38:8:155:A:C2	3.06	0.43
12:C0:32:HIS:CD2	12:C0:33:GLU:H	4.19	0.43
14:C2:56:GLU:OE1	14:C2:124:LYS:NZ	2.92	0.43
14:C2:81:ASP:OD1	14:C2:81:ASP:N	2.51	0.43
1:2:870:A:H5''	16:C4:120:PRO:HB2	1.99	0.43
18:C6:114:ARG:O	18:C6:115:THR:HB	3.74	0.43
21:C9:114:VAL:CG2	21:C9:122:ARG:HB3	2.48	0.43
24:D2:37:PHE:CD2	24:D2:126:LEU:HD13	4.72	0.43
26:D4:38:ASP:HA	26:D4:41:ARG:HG3	2.00	0.43
33:E1:149:LYS:HE3	33:E1:149:LYS:HB2	2.99	0.43
39:L2:165:VAL:HG13	39:L2:165:VAL:O	2.84	0.43
40:L3:141:GLY:O	40:L3:145:GLU:HG2	2.18	0.43
40:L3:332:ARG:HH22	85:5:3304:U:P	205.28	0.43
41:L4:136:LEU:HD22	41:L4:136:LEU:HA	3.04	0.43
36:1:2402:A:H5''	41:L4:67:THR:OG1	2.18	0.43
42:L5:211:LEU:O	42:L5:212:ALA:C	3.32	0.43
42:L5:268:GLU:C	42:L5:270:LYS:N	3.24	0.43
42:L5:270:LYS:HD2	42:L5:272:TYR:C	8.77	0.43
44:L7:174:GLY:C	44:L7:176:TYR:H	2.33	0.43
45:L8:103:ALA:O	45:L8:106:LYS:HB3	2.85	0.43
46:L9:174:LYS:O	46:L9:176:LEU:N	2.51	0.43
49:M3:89:TYR:O	49:M3:92:THR:OG1	2.35	0.43
51:M5:172:ARG:HB3	51:M5:174:ILE:HD11	2.00	0.43
51:M5:181:ASN:O	51:M5:183:THR:N	2.51	0.43
51:M5:37:HIS:CD2	51:M5:63:ARG:HB3	2.54	0.43
52:M6:19:LEU:O	52:M6:23:VAL:HG23	2.18	0.43
52:M6:80:PHE:CE2	52:M6:84:LEU:HD12	3.02	0.43
53:M7:41:LEU:HD23	53:M7:41:LEU:O	3.82	0.43
53:M7:48:LEU:HD13	53:M7:88:VAL:HG13	2.00	0.43
36:1:974:G:H5'	54:M8:16:ARG:HG3	2.00	0.43
54:M8:178:ARG:HA	54:M8:178:ARG:HD3	1.80	0.43
55:M9:106:LEU:HD21	55:M9:123:LEU:CB	2.76	0.43
56:N0:51:VAL:HG23	56:N0:51:VAL:H	2.35	0.43
62:N6:40:ARG:HG3	62:N6:45:ILE:O	2.18	0.43
63:N7:38:PHE:CE2	63:N7:76:ASN:HB2	2.53	0.43
36:1:716:A:N6	64:N8:117:ARG:HG3	2.33	0.43
64:N8:62:HIS:HB3	85:5:304:G:O2'	132.70	0.43
65:N9:14:ARG:HH12	65:N9:18:ARG:NH1	2.83	0.43
68:O2:123:LYS:HA	68:O2:126:LEU:HD12	2.12	0.43
68:O2:85:LEU:HD22	68:O2:92:TYR:HB2	1.99	0.43
69:O3:17:GLN:OE1	69:O3:24:ASN:ND2	2.46	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:O4:51:LEU:HD13	70:O4:79:SER:O	2.17	0.43
79:Q3:49:ARG:HD3	79:Q3:51:ALA:N	2.59	0.43
4:S2:143:TYR:CD2	4:S2:147:ASN:HA	4.83	0.43
4:S2:174:ARG:HA	4:S2:195:ASP:OD2	2.18	0.43
5:S3:18:TYR:HD2	31:D9:49:ASP:O	2.02	0.43
6:S4:250:GLU:HG3	6:S4:250:GLU:H	1.76	0.43
6:S4:71:LYS:HA	6:S4:76:VAL:HA	2.19	0.43
9:S7:173:TYR:CE1	9:S7:181:ILE:HD11	4.36	0.43
10:S8:17:LYS:O	92:6:1921:OHX:N1	299.16	0.43
35:SM:48:ARG:HG3	35:SM:48:ARG:H	1.45	0.43
35:SM:58:GLU:OE2	35:SM:62:ARG:HD2	5.23	0.43
34:SR:242:SER:HB3	34:SR:292:LEU:HD23	2.01	0.43
36:1:1507:G:C8	53:M7:129:THR:HG21	2.53	0.43
36:1:1727:G:H2'	36:1:1728:G:N2	2.33	0.43
36:1:1801:U:O5'	36:1:1801:U:H6	2.00	0.43
36:1:211:A:H4'	36:1:212:G:OP2	2.18	0.43
36:1:2247:G:OP1	92:1:3597:OHX:N6	2.51	0.43
36:1:2144:A:N3	36:1:2281:A:C6	2.87	0.43
36:1:2503:G:HO2'	36:1:2504:U:H5	1.66	0.43
36:1:2523:A:C6	36:1:2587:U:C5	3.06	0.43
36:1:2551:U:OP1	36:1:2551:U:H3'	2.18	0.43
36:1:2616:C:C5	36:1:2617:U:C5	3.06	0.43
36:1:2706:G:C4	36:1:2707:C:C5	3.07	0.43
36:1:2885:C:C2	36:1:2938:G:N2	2.86	0.43
36:1:296:A:H2'	36:1:297:G:N3	2.33	0.43
36:1:3053:G:C6	36:1:3054:U:C4	3.06	0.43
36:1:3109:G:N2	36:1:3126:C:C2	2.86	0.43
36:1:3112:G:O2'	36:1:3113:A:O4'	2.28	0.43
36:1:3148:U:O2'	36:1:3149:G:H5'	2.18	0.43
36:1:2865:U:OP2	92:1:3460:OHX:N4	2.51	0.43
36:1:1789:G:O6	92:1:3699:OHX:N4	2.52	0.43
36:1:41:G:N2	36:1:2803:A:N7	2.65	0.43
36:1:499:G:H2'	36:1:500:C:C6	2.53	0.43
36:1:593:C:OP1	43:L6:20:LYS:N	2.35	0.43
1:2:1064:A:O2'	1:2:1066:G:N7	2.39	0.43
1:2:1077:G:N1	1:2:1078:U:C4	2.86	0.43
1:2:1508:A:H5'	21:C9:93:HIS:HB2	1.99	0.43
1:2:487:G:H3'	1:2:488:G:H5''	2.00	0.43
1:2:577:G:H2'	35:SM:99:LYS:HZ3	1.83	0.43
92:1:3590:OHX:N5	92:3:204:OHX:N2	2.67	0.43
36:1:349:A:C2	38:4:24:G:C4	3.05	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:1025:A:H3'	85:5:1026:A:C4'	2.46	0.43
85:5:1037:C:C4	85:5:1038:C:C5	3.06	0.43
85:5:1168:U:O2'	85:5:1169:A:H5'	2.18	0.43
85:5:1235:U:H4'	85:5:1236:G:H5'	2.01	0.43
85:5:1284:C:O2'	85:5:1285:G:OP1	2.35	0.43
71:O5:74:LYS:NZ	85:5:128:G:OP1	79.88	0.43
85:5:155:G:C5'	85:5:156:G:C8	3.01	0.43
85:5:1656:A:H8	85:5:1656:A:OP1	2.00	0.43
85:5:2334:U:H2'	85:5:2335:G:H5'	2.00	0.43
85:5:2417:U:C4	85:5:2606:G:C5	3.05	0.43
85:5:2689:A:C8	85:5:2702:A:C6	3.05	0.43
85:5:2867:C:O2'	85:5:2868:U:H5'	2.19	0.43
85:5:3222:U:O2'	85:5:3223:A:H5'	2.17	0.43
85:5:3155:U:H2'	92:5:3730:OHX:N4	2.32	0.43
85:5:386:A:H2'	85:5:387:A:O4'	2.18	0.43
85:5:685:G:H8	85:5:685:G:O5'	2.02	0.43
85:5:736:A:C4	85:5:737:G:H1'	2.54	0.43
85:5:915:A:N3	85:5:915:A:H2'	2.33	0.43
85:5:916:G:H5'	85:5:917:A:OP1	2.18	0.43
80:6:1037:C:H2'	80:6:1038:U:H6	1.83	0.43
80:6:934:C:N4	80:6:1077:C:H4'	2.33	0.43
4:S2:212:LYS:NZ	80:6:1298:U:O3'	389.85	0.43
80:6:1326:A:C2	80:6:1327:C:C5	3.06	0.43
80:6:140:A:OP2	80:6:140:A:H4'	2.18	0.43
80:6:1524:A:H2	80:6:1590:G:N3	2.16	0.43
80:6:1654:G:C6	80:6:1745:G:C6	3.06	0.43
80:6:210:A:C6	80:6:211:U:C4	3.07	0.43
80:6:421:A:O2'	80:6:422:G:H5'	2.19	0.43
80:6:816:G:C2	80:6:817:A:C4	3.06	0.43
80:6:888:U:H2'	80:6:889:U:C6	2.54	0.43
80:6:993:A:C8	80:6:994:G:C8	3.07	0.43
38:8:92:A:H2'	38:8:93:U:O4'	2.18	0.43
14:C2:132:GLU:O	14:C2:136:ILE:HG12	2.18	0.43
14:C2:45:LEU:HB3	14:C2:46:ARG:H	2.76	0.43
18:C6:113:ASP:OD2	18:C6:116:LEU:HB2	2.18	0.43
24:D2:36:LYS:HB2	24:D2:110:ILE:HD12	1.98	0.43
16:C4:127:ARG:HG3	28:D6:22:ARG:NH1	2.33	0.43
28:D6:95:ARG:HA	80:6:1797:A:O4'	343.63	0.43
39:L2:152:SER:OG	39:L2:153:GLY:N	2.51	0.43
40:L3:108:GLU:HB2	40:L3:137:TYR:CD1	2.52	0.43
40:L3:167:ARG:O	40:L3:169:THR:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:252:ILE:O	40:L3:264:VAL:HG21	2.17	0.43
41:L4:178:LEU:HD21	41:L4:225:VAL:CG2	3.68	0.43
41:L4:206:LEU:HA	41:L4:226:GLU:O	2.18	0.43
41:L4:333:VAL:O	41:L4:336:ALA:N	2.50	0.43
41:L4:357:GLU:O	41:L4:360:LYS:N	2.51	0.43
42:L5:75:LEU:O	42:L5:75:LEU:HD23	3.60	0.43
45:L8:81:THR:O	45:L8:179:ILE:O	5.01	0.43
46:L9:33:THR:O	46:L9:34:LEU:HD23	2.19	0.43
46:L9:49:ASN:OD1	46:L9:52:LEU:N	2.57	0.43
47:M0:171:TRP:CD2	47:M0:181:TYR:HD2	2.35	0.43
48:M1:12:LEU:HB3	48:M1:162:TRP:CD1	2.53	0.43
48:M1:30:LEU:HD21	48:M1:66:ALA:N	2.33	0.43
51:M5:180:PHE:O	51:M5:181:ASN:C	2.56	0.43
51:M5:73:ARG:NH1	51:M5:92:LEU:HD21	3.11	0.43
52:M6:111:PRO:O	52:M6:115:LYS:HD3	2.91	0.43
52:M6:14:HIS:HA	52:M6:123:ALA:O	2.19	0.43
52:M6:181:ALA:O	52:M6:183:ALA:N	2.51	0.43
53:M7:138:LYS:NZ	53:M7:140:GLU:OE1	2.63	0.43
54:M8:67:ILE:HD13	54:M8:67:ILE:HG21	2.36	0.43
57:N1:108:ARG:CD	57:N1:130:ARG:HD3	2.48	0.43
59:N3:118:VAL:CG1	59:N3:119:GLY:N	3.01	0.43
62:N6:40:ARG:O	62:N6:44:GLY:N	2.48	0.43
62:N6:56:VAL:HG11	62:N6:70:ILE:HD11	2.66	0.43
64:N8:112:ILE:HA	64:N8:112:ILE:HD13	1.72	0.43
64:N8:117:ARG:HA	64:N8:117:ARG:HD3	1.83	0.43
64:N8:15:VAL:H	64:N8:15:VAL:HG23	3.05	0.43
67:O1:29:ALA:HB3	67:O1:30:PRO:HD3	2.00	0.43
68:O2:71:HIS:CE1	68:O2:118:LYS:HD2	2.53	0.43
69:O3:90:PRO:O	69:O3:91:ALA:HB3	2.62	0.43
71:O5:50:SER:O	71:O5:54:VAL:HG23	2.40	0.43
72:O6:53:TYR:CE2	85:5:295:A:OP1	146.81	0.43
72:O6:70:ARG:CD	72:O6:84:LYS:HG2	3.60	0.43
1:2:1624:C:H4'	77:Q1:1:MET:N	2.34	0.43
2:S0:60:ALA:O	2:S0:64:ILE:HG13	2.64	0.43
3:S1:181:LEU:O	3:S1:185:THR:OG1	2.56	0.43
4:S2:137:ILE:HD13	4:S2:219:GLY:HA3	3.96	0.43
4:S2:162:CYS:SG	4:S2:212:LYS:HE2	2.58	0.43
4:S2:59:HIS:CD2	4:S2:238:SER:HA	2.73	0.43
5:S3:141:LYS:HB3	5:S3:144:ALA:HA	7.30	0.43
6:S4:151:ASP:H	6:S4:154:ILE:HD12	1.83	0.43
6:S4:176:ASP:N	6:S4:176:ASP:OD2	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S5:69:PHE:HE2	18:C6:53:LEU:HD12	1.84	0.43
8:S6:129:VAL:HG23	8:S6:130:PRO:HD2	2.02	0.43
9:S7:35:LYS:C	9:S7:37:GLU:H	2.21	0.43
11:S9:107:ARG:NH2	11:S9:148:VAL:HG12	2.73	0.43
1:2:1620:C:H42	35:SM:92:ASP:HB2	1.84	0.43
34:SR:112:SER:HB2	34:SR:153:GLN:HA	2.02	0.43
34:SR:242:SER:O	34:SR:292:LEU:HD21	2.19	0.43
34:SR:299:GLN:NE2	34:SR:315:VAL:O	2.52	0.43
36:1:1172:G:N1	36:1:1173:U:C4	2.86	0.43
36:1:1305:U:H5	40:L3:256:HIS:HB3	1.83	0.43
36:1:1376:C:H1'	36:1:1407:A:N3	2.33	0.43
36:1:1467:A:C6	36:1:1470:U:C2	3.06	0.43
36:1:1547:G:N1	36:1:1548:C:N4	2.66	0.43
36:1:1642:A:O2'	36:1:1643:A:C8	2.72	0.43
36:1:2721:A:C5	36:1:2722:U:C5	3.06	0.43
36:1:348:A:H4'	36:1:367:A:N6	2.33	0.43
1:2:1241:U:C4	1:2:1242:U:C2	3.06	0.43
1:2:144:U:O2'	1:2:145:A:H8	2.02	0.43
1:2:597:G:C6	1:2:598:U:C4	3.06	0.43
1:2:624:G:OP2	92:2:2043:OHX:N2	2.51	0.43
1:2:761:G:N3	1:2:761:G:O4'	2.50	0.43
37:3:18:C:N4	37:3:61:G:H1	2.15	0.43
85:5:1069:C:C2	85:5:1090:G:C2	3.07	0.43
85:5:1225:A:C6	85:5:1226:G:C5	3.06	0.43
85:5:1764:U:H3'	85:5:1765:U:C5'	2.45	0.43
85:5:1827:C:H2'	85:5:1828:A:H8	1.84	0.43
79:Q3:18:TYR:HA	85:5:2131:A:N6	226.55	0.43
85:5:2132:C:O5'	85:5:2132:C:H6	2.01	0.43
57:N1:10:ARG:NH2	85:5:2641:U:OP2	234.13	0.43
85:5:2684:C:N4	85:5:2685:C:H41	2.15	0.43
85:5:2850:G:C2'	85:5:2851:A:OP2	2.66	0.43
40:L3:13:HIS:CE1	85:5:3011:A:C8	248.14	0.43
85:5:3059:G:O6	85:5:3060:C:N4	2.52	0.43
85:5:3198:U:H4'	85:5:3199:G:OP2	2.18	0.43
85:5:3288:G:C4	85:5:3289:G:C8	3.07	0.43
85:5:3366:G:H2'	85:5:3367:C:C6	2.52	0.43
85:5:392:G:N3	85:5:393:U:C6	2.87	0.43
85:5:997:A:H4'	37:7:80:G:H5'	2.00	0.43
80:6:1118:G:C6	80:6:1119:G:N7	2.86	0.43
80:6:1303:U:C5	80:6:1304:G:C5	3.07	0.43
80:6:1461:C:H2'	80:6:1462:G:H8	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:1698:G:H1'	80:6:1699:G:OP1	2.18	0.43
92:6:2012:OHX:N3	92:6:2030:OHX:N1	2.66	0.43
80:6:513:U:H2'	80:6:514:G:C8	2.53	0.43
80:6:521:A:H2'	80:6:522:U:O4'	2.18	0.43
80:6:775:G:C2	80:6:786:C:C4	3.06	0.43
80:6:832:U:H2'	80:6:833:U:O4'	2.18	0.43
80:6:998:A:C8	80:6:999:U:C5	3.06	0.43
37:7:1:G:C2	37:7:2:G:C8	3.07	0.43
38:8:37:A:C6	38:8:104:A:C5	3.07	0.43
38:8:118:C:C2	38:8:136:G:C2	3.07	0.43
13:C1:127:GLN:N	13:C1:137:PHE:CD1	3.80	0.43
1:2:910:C:H1'	16:C4:125:SER:CB	2.47	0.43
19:C7:105:GLN:O	19:C7:109:LEU:N	2.61	0.43
20:C8:26:ILE:HD11	20:C8:31:ALA:N	2.33	0.43
24:D2:80:ASN:OD1	24:D2:124:LYS:NZ	2.30	0.43
25:D3:141:GLU:CG	25:D3:144:ARG:HH12	14.50	0.43
25:D3:79:ASN:OD1	25:D3:81:LYS:HG3	2.19	0.43
26:D4:10:ARG:HD2	80:6:778:G:O6	428.07	0.43
26:D4:17:LEU:HG	26:D4:17:LEU:H	1.57	0.43
27:D5:93:SER:OG	27:D5:100:ILE:HB	3.29	0.43
30:D8:13:ILE:HD12	30:D8:29:ARG:HG2	2.01	0.43
33:E1:103:LEU:HA	33:E1:105:TYR:HD2	3.15	0.43
33:E1:147:VAL:HG12	33:E1:148:TYR:CD2	2.53	0.43
39:L2:51:ASP:OD1	39:L2:52:SER:N	2.52	0.43
39:L2:42:ARG:NH1	39:L2:87:PHE:CE1	4.25	0.43
40:L3:87:VAL:HB	40:L3:110:LEU:HD11	2.01	0.43
40:L3:384:LYS:C	40:L3:385:LYS:O	3.10	0.43
40:L3:56:ILE:HD12	40:L3:56:ILE:HA	2.54	0.43
41:L4:107:ARG:HH11	41:L4:107:ARG:HD3	1.47	0.43
41:L4:330:TYR:HA	44:L7:45:LEU:HD23	4.80	0.43
41:L4:34:ILE:O	41:L4:38:VAL:HG23	2.18	0.43
41:L4:3:ARG:HH11	41:L4:22:LEU:CD1	2.30	0.43
41:L4:58:HIS:C	41:L4:60:THR:N	2.72	0.43
42:L5:46:THR:HG21	85:5:1078:U:H4'	236.90	0.43
43:L6:55:LEU:HD21	43:L6:145:LEU:HD11	2.74	0.43
43:L6:58:LEU:HD23	43:L6:58:LEU:N	2.32	0.43
44:L7:84:VAL:HG11	44:L7:127:LEU:HD11	2.56	0.43
49:M3:141:ALA:O	49:M3:145:PHE:N	2.80	0.43
49:M3:43:ALA:HA	49:M3:46:ILE:HG22	5.05	0.43
51:M5:33:LYS:HD2	51:M5:37:HIS:CE1	2.53	0.43
51:M5:68:ARG:HD2	51:M5:127:TYR:C	2.38	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:M6:172:ARG:HA	52:M6:175:THR:CG2	4.50	0.43
55:M9:105:LEU:HD23	55:M9:138:LEU:HD12	4.57	0.43
55:M9:76:SER:O	55:M9:81:ARG:NH1	2.43	0.43
52:M6:7:VAL:HG11	56:N0:163:PHE:CZ	2.54	0.43
56:N0:1:MET:SD	56:N0:36:ILE:HG21	2.59	0.43
57:N1:27:LEU:O	57:N1:31:LEU:HG	2.18	0.43
57:N1:87:LYS:HD2	57:N1:87:LYS:HA	4.29	0.43
59:N3:13:ILE:HG13	59:N3:13:ILE:O	2.14	0.43
60:N4:9:SER:HB2	60:N4:51:TRP:CZ3	2.53	0.43
63:N7:51:LEU:HB3	63:N7:65:ARG:NH1	2.33	0.43
67:O1:89:LEU:HD12	67:O1:89:LEU:N	2.34	0.43
69:O3:52:VAL:HG22	69:O3:66:VAL:HG22	2.31	0.43
74:O8:58:ASP:HB3	74:O8:61:LYS:HG2	3.73	0.43
91:P:75:C:H2'	98:P:101:8AN:H1'	2.00	0.43
78:Q2:32:LYS:HD2	78:Q2:32:LYS:HA	4.41	0.43
2:S0:88:LYS:HG2	2:S0:201:LEU:HG	2.38	0.43
5:S3:105:MET:HG2	5:S3:122:VAL:HG21	2.43	0.43
6:S4:136:VAL:O	6:S4:137:PRO:C	2.89	0.43
6:S4:159:THR:OG1	6:S4:160:VAL:N	2.98	0.43
7:S5:143:ARG:HD3	30:D8:55:VAL:HG11	2.78	0.43
7:S5:59:VAL:C	7:S5:61:TYR:H	2.22	0.43
7:S5:71:ALA:O	7:S5:91:GLU:HG3	2.26	0.43
10:S8:138:ASN:O	10:S8:142:LYS:HG3	2.19	0.43
11:S9:134:ILE:HD13	11:S9:141:VAL:H	5.83	0.43
11:S9:92:LYS:O	11:S9:93:LEU:HD23	2.19	0.43
34:SR:207:ASP:OD1	34:SR:209:THR:OG1	2.23	0.43
34:SR:248:ASN:OD1	34:SR:249:ARG:N	2.70	0.43
34:SR:307:ASP:N	34:SR:307:ASP:OD1	2.47	0.43
34:SR:61:PHE:HD1	34:SR:92:TRP:CE3	2.47	0.43
36:1:1204:A:H2	36:1:2834:G:N3	2.16	0.43
36:1:1307:G:H5''	52:M6:60:LYS:CE	2.48	0.43
36:1:659:G:H2'	36:1:1432:C:H42	1.83	0.43
36:1:1743:G:N1	36:1:1744:G:C5	2.86	0.43
36:1:23:A:O5'	36:1:23:A:H8	2.00	0.43
36:1:2621:G:C5	36:1:2622:C:C5	3.06	0.43
36:1:3060:C:H1'	36:1:3332:U:O2'	2.19	0.43
36:1:3299:A:H4'	53:M7:55:GLN:OE1	2.18	0.43
36:1:3325:G:H5''	67:O1:103:GLY:HA2	2.01	0.43
36:1:346:C:C4	36:1:348:A:C8	3.06	0.43
36:1:366:A:N6	36:1:367:A:C2	2.86	0.43
36:1:374:A:C2	36:1:375:A:C4	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:404:G:C6	36:1:405:U:C2	3.06	0.43
36:1:427:C:OP2	68:O2:15:LYS:NZ	2.52	0.43
1:2:624:G:C8	1:2:1010:A:C6	3.07	0.43
1:2:1205:C:H2'	1:2:1206:A:C8	2.53	0.43
1:2:1233:U:O2'	1:2:1234:U:OP1	2.36	0.43
1:2:1292:C:O2'	1:2:1384:A:N1	2.51	0.43
1:2:1452:A:H2'	1:2:1453:C:C6	2.54	0.43
1:2:253:A:O2'	1:2:254:A:H5'	2.19	0.43
1:2:391:A:C2	1:2:407:A:C2	3.07	0.43
1:2:686:G:N2	1:2:719:C:H1'	2.33	0.43
1:2:874:A:H2'	1:2:875:A:C8	2.54	0.43
37:3:5:G:O5'	37:3:5:G:H8	2.02	0.43
37:3:68:C:O2'	37:3:69:C:H5'	2.19	0.43
85:5:1135:A:N3	85:5:1136:A:C8	2.85	0.43
52:M6:21:SER:OG	85:5:1175:C:O4'	257.21	0.43
85:5:1222:G:H8	85:5:1222:G:OP2	2.01	0.43
85:5:1258:U:O2	85:5:1260:A:H8	2.01	0.43
85:5:1195:A:C4	85:5:1309:U:C2	3.07	0.43
63:N7:69:LYS:NZ	85:5:1632:A:OP1	191.80	0.43
70:O4:24:LYS:HE3	85:5:1694:U:O3'	152.01	0.43
85:5:1819:U:H2'	85:5:1820:U:H5'	2.00	0.43
85:5:1880:U:C2	85:5:1881:A:C8	3.07	0.43
85:5:1902:G:C6	85:5:1903:U:C2	3.06	0.43
85:5:2095:G:H2'	85:5:2096:A:H8	1.83	0.43
85:5:2390:A:C2	85:5:2990:G:C2	3.07	0.43
85:5:258:G:C2	85:5:259:C:C2	3.06	0.43
85:5:2698:G:H2'	85:5:2699:G:C8	2.50	0.43
85:5:3048:A:C5	85:5:3090:U:C5	3.06	0.43
85:5:2910:A:O2'	85:5:3130:A:N1	2.40	0.43
85:5:3164:C:O2'	85:5:3165:A:H5'	2.18	0.43
85:5:3328:G:C2	85:5:3379:C:C2	3.07	0.43
85:5:2656:A:O2'	92:5:3412:OHX:N4	2.51	0.43
85:5:902:G:O6	92:5:3480:OHX:N4	2.52	0.43
80:6:100:A:C6	80:6:101:U:C4	3.07	0.43
80:6:1130:G:O5'	80:6:1130:G:H8	2.01	0.43
80:6:1398:U:C4	80:6:1400:A:N1	2.87	0.43
80:6:139:C:H4'	80:6:140:A:O5'	2.17	0.43
80:6:1533:C:H4'	80:6:1539:G:N1	2.32	0.43
80:6:1562:G:N1	80:6:1563:C:C4	2.87	0.43
80:6:1653:C:C5	80:6:1654:G:C5	3.06	0.43
80:6:248:U:H2'	80:6:249:U:H5''	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:25:C:O2	92:6:1962:OHX:N6	2.52	0.43
80:6:275:C:N4	80:6:276:C:N4	2.66	0.43
80:6:302:U:H5'	80:6:303:U:OP2	2.18	0.43
80:6:414:C:N3	80:6:420:A:C2	2.86	0.43
80:6:939:A:N6	80:6:940:A:N6	2.66	0.43
38:8:114:G:C6	38:8:115:C:C4	3.06	0.43
85:5:345:G:O2'	38:8:25:G:N3	2.50	0.43
38:8:65:A:C4	38:8:66:A:C8	3.07	0.43
38:8:65:A:C5	38:8:66:A:N7	2.86	0.43
12:C0:70:GLU:O	12:C0:73:VAL:HB	2.17	0.43
16:C4:83:ILE:HG13	16:C4:84:ARG:N	2.34	0.43
17:C5:124:THR:OG1	17:C5:124:THR:O	3.01	0.43
18:C6:138:PHE:HA	18:C6:138:PHE:HD1	1.73	0.43
19:C7:20:TYR:O	19:C7:24:LEU:HG	3.54	0.43
20:C8:30:TYR:CZ	80:6:1539:G:N3	352.49	0.43
20:C8:6:GLN:O	27:D5:42:LEU:HD13	2.19	0.43
24:D2:75:ILE:HD13	24:D2:75:ILE:HA	1.81	0.43
28:D6:19:LYS:HE3	80:6:928:U:H5''	295.96	0.43
28:D6:87:ARG:NE	28:D6:91:ASP:O	2.45	0.43
11:S9:126:ARG:HG3	32:E0:33:ARG:HD3	2.87	0.43
33:E1:140:TYR:CZ	33:E1:142:GLY:HA2	2.88	0.43
33:E1:144:CYS:CB	33:E1:147:VAL:HB	2.46	0.43
39:L2:131:GLY:H	39:L2:169:ILE:HB	2.21	0.43
39:L2:100:ASN:O	39:L2:166:ILE:HG12	2.91	0.43
39:L2:205:ASN:O	39:L2:207:VAL:N	2.87	0.43
40:L3:240:ARG:O	40:L3:240:ARG:HG2	2.18	0.43
40:L3:231:HIS:CE1	40:L3:270:ARG:CZ	3.01	0.43
40:L3:305:ILE:HG12	40:L3:321:PHE:CE2	2.54	0.43
41:L4:135:VAL:HG13	41:L4:245:GLY:O	2.18	0.43
41:L4:271:LYS:CB	41:L4:274:TYR:HB3	3.56	0.43
41:L4:4:PRO:O	41:L4:5:GLN:HB2	2.19	0.43
42:L5:107:ARG:HB3	42:L5:251:PRO:HG3	2.00	0.43
42:L5:227:LEU:O	42:L5:229:ASP:N	2.51	0.43
42:L5:283:ALA:O	42:L5:286:VAL:HB	2.72	0.43
42:L5:99:TYR:CG	42:L5:199:ILE:HG23	2.84	0.43
43:L6:137:ASP:O	43:L6:140:VAL:HB	3.09	0.43
44:L7:177:GLY:O	44:L7:178:ILE:HB	2.17	0.43
44:L7:47:ARG:NH2	44:L7:179:LEU:HD11	2.33	0.43
45:L8:144:GLU:OE1	51:M5:6:TYR:OH	2.31	0.43
45:L8:230:LYS:HE3	45:L8:230:LYS:HB2	4.42	0.43
46:L9:20:ILE:HD11	46:L9:25:VAL:HG22	5.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:M0:86:HIS:HB3	47:M0:139:ARG:HD3	1.99	0.43
47:M0:170:LYS:HA	47:M0:177:ASP:HA	1.99	0.43
47:M0:41:ALA:O	47:M0:139:ARG:NH2	3.46	0.43
49:M3:53:LEU:HB2	49:M3:55:ARG:NH1	2.52	0.43
51:M5:38:ARG:HD2	51:M5:39:ALA:O	2.18	0.43
52:M6:108:ILE:HG21	52:M6:108:ILE:HD13	1.95	0.43
53:M7:176:ILE:HA	53:M7:179:GLN:OE1	2.18	0.43
53:M7:69:ARG:HH21	85:5:2992:U:H1'	191.73	0.43
55:M9:106:LEU:HB3	55:M9:120:TYR:CD1	2.65	0.43
56:N0:88:HIS:N	56:N0:88:HIS:CD2	4.00	0.43
58:N2:42:LYS:HB2	85:5:1687:U:H5	174.82	0.43
36:1:2916:U:C1'	59:N3:44:SER:HB3	2.40	0.43
60:N4:6:ASP:OD2	60:N4:6:ASP:C	2.56	0.43
62:N6:34:PRO:HA	62:N6:47:ALA:CB	3.46	0.43
64:N8:47:LYS:HE2	64:N8:48:TYR:CZ	2.53	0.43
65:N9:38:LYS:HE2	65:N9:38:LYS:HB2	4.23	0.43
66:O0:24:THR:CG2	66:O0:91:SER:HB3	2.49	0.43
68:O2:19:ARG:HH11	68:O2:28:VAL:CG1	3.50	0.43
68:O2:22:SER:OG	68:O2:23:ASP:N	2.50	0.43
70:O4:74:ARG:CZ	70:O4:74:ARG:HB3	2.48	0.43
70:O4:80:ARG:HH11	70:O4:88:ARG:HH22	1.65	0.43
64:N8:129:PHE:CE2	72:O6:8:ALA:HB1	3.17	0.43
73:O7:69:HIS:ND1	73:O7:72:ARG:NH2	2.67	0.43
78:Q2:11:TYR:CD1	78:Q2:12:CYS:N	2.87	0.43
78:Q2:77:CYS:SG	78:Q2:79:THR:HG22	2.58	0.43
79:Q3:49:ARG:HB2	79:Q3:55:TRP:CZ3	2.52	0.43
2:S0:161:PRO:C	2:S0:162:CYS:SG	3.35	0.43
3:S1:113:MET:HB3	3:S1:113:MET:HE2	4.32	0.43
3:S1:141:ALA:CB	3:S1:210:ILE:HG12	2.94	0.43
4:S2:197:TYR:CD1	80:6:2:A:H2'	392.49	0.43
4:S2:35:TRP:CD1	4:S2:67:GLN:HG2	4.60	0.43
6:S4:126:VAL:HG12	6:S4:158:ASP:O	2.19	0.43
9:S7:187:SER:O	9:S7:187:SER:OG	2.31	0.43
9:S7:74:GLN:NE2	9:S7:92:PHE:HB2	2.33	0.43
11:S9:102:GLU:C	11:S9:104:PHE:N	3.30	0.43
11:S9:89:ASP:OD1	11:S9:89:ASP:N	2.50	0.43
11:S9:97:LEU:HA	11:S9:97:LEU:HD23	2.09	0.43
34:SR:38:ARG:HG2	34:SR:67:ILE:HG21	2.28	0.43
36:1:1161:G:C2	36:1:1162:U:C6	3.07	0.43
36:1:1605:A:O2'	36:1:1607:U:OP2	2.29	0.43
36:1:1875:G:H2'	36:1:1876:U:O4'	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2252:A:C2	36:1:2265:C:C2	3.06	0.43
36:1:2631:U:C4	36:1:2648:G:N1	2.86	0.43
36:1:2657:A:H2	36:1:2694:A:C8	2.37	0.43
36:1:2922:G:N1	36:1:2923:U:O2	2.50	0.43
36:1:3025:C:O5'	36:1:3025:C:H6	2.01	0.43
36:1:3159:C:H4'	36:1:3395:G:C5	2.54	0.43
36:1:332:C:C4	36:1:333:G:N7	2.87	0.43
36:1:3331:U:H2'	36:1:3332:U:C6	2.53	0.43
92:1:3507:OHX:N3	92:1:3691:OHX:N4	2.66	0.43
36:1:760:G:N3	36:1:770:G:C2	2.86	0.43
36:1:813:G:H2'	36:1:814:U:C6	2.52	0.43
1:2:1069:A:C5	1:2:1070:A:C6	3.06	0.43
1:2:1099:A:C2	1:2:1114:A:C4	3.06	0.43
1:2:1133:G:N2	1:2:1751:G:H2'	2.34	0.43
1:2:1134:A:H2'	1:2:1135:A:C8	2.53	0.43
1:2:1181:G:N1	1:2:1183:G:C6	2.87	0.43
1:2:1643:A:H2'	1:2:1644:U:C6	2.54	0.43
1:2:1640:U:O4	92:2:1966:OHX:N2	2.51	0.43
1:2:129:U:C2	1:2:264:G:C6	3.07	0.43
1:2:703:G:N3	1:2:703:G:H2'	2.33	0.43
1:2:690:A:H61	1:2:713:G:H22	1.64	0.43
1:2:88:U:H4'	1:2:171:A:O4'	2.19	0.43
1:2:629:U:C2	1:2:954:A:C6	3.07	0.43
85:5:1202:A:C2	85:5:1203:A:N7	2.87	0.43
85:5:1461:A:C2	85:5:1462:A:C4	3.07	0.43
85:5:148:G:HO2'	85:5:149:U:P	2.41	0.43
85:5:1578:C:C2'	85:5:1579:C:H5'	2.49	0.43
62:N6:60:ARG:HH22	85:5:190:U:C2'	82.70	0.43
85:5:1938:U:O2	85:5:2115:G:H5'	2.19	0.43
85:5:249:U:O2'	85:5:250:U:H5''	2.19	0.43
85:5:2417:U:C4	85:5:2606:G:C6	3.06	0.43
85:5:2908:G:N7	92:5:3407:OHX:N2	2.67	0.43
85:5:2997:G:H1'	85:5:3396:U:H5'	2.00	0.43
85:5:3276:G:P	85:5:3276:G:H2'	2.58	0.43
85:5:2578:U:OP2	92:5:3627:OHX:N4	2.51	0.43
85:5:374:A:HO2'	85:5:376:G:H8	1.66	0.43
85:5:550:A:C6	85:5:551:A:C6	3.05	0.43
85:5:67:A:C2'	85:5:68:C:OP1	2.66	0.43
85:5:822:G:C6	85:5:823:C:C4	3.06	0.43
85:5:842:G:H2'	85:5:843:A:C8	2.53	0.43
80:6:1057:U:H6	80:6:1057:U:OP2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:1229:G:O2'	80:6:1255:G:N2	2.28	0.43
80:6:140:A:N3	80:6:140:A:H5''	2.34	0.43
80:6:1700:C:O2'	80:6:1701:A:OP1	2.31	0.43
80:6:333:A:N6	80:6:334:G:O6	2.52	0.43
80:6:411:C:H2'	80:6:412:A:O4'	2.19	0.43
80:6:486:G:H4'	80:6:486:G:OP1	2.18	0.43
80:6:525:A:C6	80:6:526:A:C6	3.07	0.43
80:6:20:G:H5'	80:6:571:G:C5	2.54	0.43
80:6:545:A:C6	80:6:594:A:C8	3.07	0.43
80:6:711:U:C2	80:6:728:U:C2	3.07	0.43
80:6:868:G:C6	80:6:869:A:N7	2.87	0.43
80:6:86:A:C2	80:6:87:C:C4	3.07	0.43
80:6:919:A:H2'	80:6:920:U:C6	2.54	0.43
12:C0:59:PHE:CE1	12:C0:62:GLN:HA	2.54	0.43
14:C2:47:GLU:HG2	80:6:1229:G:O6	460.46	0.43
15:C3:15:ALA:H	29:D7:20:LYS:NZ	2.16	0.43
17:C5:94:VAL:HG11	17:C5:116:LEU:HD13	2.00	0.43
17:C5:60:LEU:HD21	17:C5:92:SER:CB	2.46	0.43
18:C6:47:LYS:HD2	18:C6:47:LYS:HA	2.20	0.43
18:C6:99:GLU:O	18:C6:102:LYS:N	2.68	0.43
1:2:1516:C:H5'	20:C8:27:LYS:HD2	2.00	0.43
21:C9:73:VAL:HG21	21:C9:102:ARG:HG3	2.17	0.43
21:C9:66:TYR:CE2	21:C9:129:GLN:HG3	5.59	0.43
4:S2:230:TRP:HE1	24:D2:68:ARG:HB2	3.67	0.43
26:D4:86:GLU:HB2	26:D4:91:LEU:HD21	2.56	0.43
28:D6:85:ARG:H	80:6:1797:A:H61	340.44	0.43
39:L2:155:LYS:H	39:L2:155:LYS:HG2	3.69	0.43
36:1:2154:U:OP1	39:L2:242:ARG:HD3	2.19	0.43
40:L3:41:VAL:HG12	40:L3:185:GLY:C	2.68	0.43
41:L4:74:ILE:HG21	41:L4:93:MET:CE	2.48	0.43
41:L4:74:ILE:HG21	41:L4:93:MET:HE3	2.00	0.43
41:L4:8:VAL:CG1	41:L4:9:HIS:N	2.80	0.43
42:L5:271:LYS:HA	42:L5:271:LYS:HD3	4.49	0.43
43:L6:131:LYS:HD3	43:L6:131:LYS:HA	4.29	0.43
45:L8:153:ILE:O	45:L8:180:VAL:N	2.46	0.43
36:1:3122:A:O2'	46:L9:63:LYS:HD2	2.18	0.43
49:M3:156:ALA:HA	64:N8:99:ALA:O	2.19	0.43
51:M5:29:GLU:O	51:M5:30:TYR:C	2.55	0.43
52:M6:55:HIS:O	52:M6:56:ASP:C	2.57	0.43
53:M7:108:ASP:C	53:M7:110:THR:H	2.22	0.43
53:M7:47:TYR:O	53:M7:48:LEU:C	2.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:M7:85:ALA:C	53:M7:87:SER:N	3.03	0.43
55:M9:19:LYS:HG3	85:5:1875:G:OP1	129.56	0.43
58:N2:76:LEU:O	58:N2:78:TYR:N	2.52	0.43
59:N3:137:VAL:O	59:N3:137:VAL:HG12	2.64	0.43
59:N3:22:ILE:HG12	59:N3:35:TYR:HD1	2.61	0.43
61:N5:132:ALA:O	61:N5:135:ILE:HG22	2.25	0.43
61:N5:56:ARG:H	61:N5:56:ARG:HG2	3.06	0.43
64:N8:111:LYS:HA	64:N8:129:PHE:O	2.45	0.43
64:N8:132:LYS:O	64:N8:136:GLU:HG3	2.65	0.43
71:O5:17:LEU:O	71:O5:18:ALA:C	2.65	0.43
79:Q3:55:TRP:CD1	79:Q3:55:TRP:N	2.96	0.43
2:S0:182:LEU:HB3	2:S0:188:LEU:HG	3.65	0.43
3:S1:135:LEU:HA	3:S1:135:LEU:HD23	4.34	0.43
3:S1:131:ASP:OD2	3:S1:180:THR:HG21	2.18	0.43
4:S2:165:VAL:HA	4:S2:202:GLY:HA3	2.71	0.43
9:S7:71:HIS:CD2	9:S7:131:PHE:CZ	3.07	0.43
10:S8:136:SER:O	10:S8:140:GLU:HG2	4.98	0.43
36:1:1060:U:H2'	36:1:1061:A:H8	1.84	0.43
36:1:1103:A:N1	54:M8:9:GLN:NE2	2.46	0.43
36:1:1347:U:H4'	41:L4:305:ALA:HB2	2.00	0.43
36:1:1346:G:N2	36:1:1359:C:O2	2.51	0.43
36:1:1404:G:OP2	68:O2:11:LYS:NZ	2.47	0.43
36:1:1576:G:O6	36:1:1577:G:N1	2.52	0.43
36:1:1646:G:HO2'	36:1:1647:A:P	2.36	0.43
36:1:175:C:H2'	36:1:176:G:O4'	2.19	0.43
36:1:1619:A:C2	36:1:1826:C:N3	2.86	0.43
36:1:2303:A:C6	36:1:2304:C:C4	3.07	0.43
36:1:2303:A:N6	36:1:2304:C:N4	2.66	0.43
36:1:2796:G:O6	78:Q2:63:LYS:HD3	2.18	0.43
36:1:2845:A:C2	36:1:2846:U:C2	3.07	0.43
36:1:3162:C:C2	36:1:3289:G:N2	2.87	0.43
36:1:3322:A:H2'	36:1:3323:A:H8	1.83	0.43
36:1:172:G:N7	92:1:3526:OHX:N2	2.66	0.43
92:1:3600:OHX:N3	92:1:3648:OHX:N4	2.66	0.43
36:1:772:U:H2'	36:1:773:G:H8	1.83	0.43
36:1:908:G:H4'	36:1:909:G:O5'	2.19	0.43
1:2:1157:C:C4	1:2:1158:U:C4	3.07	0.43
1:2:1164:U:C2	1:2:1165:U:C6	3.06	0.43
1:2:1560:A:C6	1:2:1561:U:N3	2.86	0.43
1:2:579:A:O3'	92:2:2023:OHX:N4	2.51	0.43
1:2:432:G:N1	1:2:433:C:C2	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:472:U:H2'	1:2:473:A:H8	1.82	0.43
1:2:540:G:H4'	1:2:541:A:H3'	2.01	0.43
37:3:91:G:C2	37:3:92:A:C4	3.06	0.43
38:4:11:C:C4	38:4:12:A:N7	2.86	0.43
85:5:1549:U:H2'	85:5:1550:C:C6	2.53	0.43
85:5:1678:G:C2	85:5:1679:A:C4	3.07	0.43
85:5:1694:U:C2	85:5:1695:U:C5	3.06	0.43
85:5:2696:A:H2'	85:5:2697:A:C8	2.54	0.43
85:5:284:A:H4'	85:5:285:A:C2	2.54	0.43
85:5:3191:G:H2'	85:5:3192:U:C6	2.54	0.43
85:5:3245:A:C2	85:5:3246:G:C2	3.07	0.43
73:O7:56:ARG:O	92:5:3706:OHX:N6	100.99	0.43
13:C1:34:TRP:CZ3	80:6:249:U:H5	300.47	0.43
80:6:398:G:O5'	80:6:398:G:H8	2.02	0.43
80:6:749:U:H2'	80:6:750:U:H6	1.83	0.43
80:6:990:C:H2'	80:6:991:G:O4'	2.19	0.43
37:7:62:U:C4	37:7:63:A:C6	3.07	0.43
38:8:78:G:O3'	38:8:79:A:H4'	2.18	0.43
13:C1:55:ASP:OD1	13:C1:110:HIS:NE2	2.51	0.43
15:C3:135:LEU:HA	15:C3:135:LEU:HD23	1.87	0.43
1:2:901:U:H5'	16:C4:29:HIS:NE2	2.33	0.43
24:D2:116:ALA:HB1	24:D2:121:VAL:O	2.85	0.43
24:D2:42:GLN:NE2	24:D2:49:GLU:HA	2.72	0.43
25:D3:132:LEU:HD23	25:D3:132:LEU:HA	3.27	0.43
25:D3:60:GLU:OE2	32:E0:3:LYS:HB2	2.19	0.43
25:D3:92:CYS:C	25:D3:94:ASN:N	2.72	0.43
1:2:533:U:H4'	26:D4:33:ALA:HB2	1.99	0.43
26:D4:74:LEU:HD11	26:D4:90:ARG:HH12	1.84	0.43
27:D5:43:ASP:O	27:D5:45:GLU:N	2.53	0.43
27:D5:44:GLN:HE22	27:D5:47:TYR:HD1	1.65	0.43
30:D8:10:ALA:HA	30:D8:32:PHE:HA	2.01	0.43
36:1:3315:G:H2'	40:L3:123:TYR:CD1	2.53	0.43
40:L3:68:HIS:NE2	40:L3:69:LYS:HG3	3.73	0.43
41:L4:219:LEU:HD23	41:L4:219:LEU:HA	1.63	0.43
41:L4:299:ILE:HG23	41:L4:299:ILE:HD12	1.78	0.43
42:L5:222:LEU:HG	42:L5:222:LEU:H	1.55	0.43
42:L5:265:TYR:HE1	37:7:121:U:H5''	316.77	0.43
42:L5:51:LEU:HB3	42:L5:146:LEU:HA	2.01	0.43
41:L4:351:PRO:HA	44:L7:71:ALA:HA	2.65	0.43
45:L8:243:GLN:O	45:L8:247:ASP:N	2.40	0.43
47:M0:156:ARG:HD3	47:M0:163:GLN:HG2	3.62	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:M0:16:PRO:HA	47:M0:95:HIS:CD2	4.46	0.43
48:M1:11:ASP:O	48:M1:12:LEU:HB3	3.84	0.43
48:M1:15:GLU:N	48:M1:130:VAL:O	2.43	0.43
48:M1:139:THR:O	48:M1:140:ARG:HB2	2.19	0.43
48:M1:7:ASN:HD22	48:M1:7:ASN:N	2.17	0.43
49:M3:104:ARG:HB2	49:M3:104:ARG:HE	3.38	0.43
50:M4:44:VAL:HG23	50:M4:46:ILE:HG23	3.24	0.43
50:M4:50:LYS:HG2	50:M4:85:TRP:CD1	2.53	0.43
51:M5:199:LEU:HD12	51:M5:203:ARG:NH2	2.34	0.43
51:M5:66:VAL:HG23	51:M5:66:VAL:O	2.19	0.43
53:M7:112:LEU:HD12	53:M7:151:THR:C	2.39	0.43
54:M8:7:SER:O	54:M8:8:LYS:C	3.23	0.43
55:M9:92:GLN:O	55:M9:96:ILE:HG13	2.17	0.43
58:N2:75:TYR:CD1	58:N2:79:LEU:HD11	2.54	0.43
59:N3:54:LEU:HD11	59:N3:79:VAL:O	3.04	0.43
60:N4:62:GLY:O	60:N4:63:ILE:HD12	6.46	0.43
61:N5:39:LYS:HG2	61:N5:39:LYS:HZ2	1.67	0.43
61:N5:58:ASP:O	61:N5:62:VAL:HG23	2.37	0.43
61:N5:67:ILE:HD13	61:N5:115:ARG:NH2	2.34	0.43
62:N6:82:VAL:HG12	62:N6:85:VAL:H	2.44	0.43
63:N7:108:GLU:O	63:N7:112:LYS:HG3	2.18	0.43
54:M8:176:ARG:O	64:N8:51:GLY:HA2	3.25	0.43
65:N9:9:ALA:O	65:N9:12:GLN:HG2	2.19	0.43
67:O1:15:ASN:H	67:O1:19:ARG:HH12	1.65	0.43
68:O2:101:SER:HB3	85:5:1389:G:H5"	128.32	0.43
68:O2:111:ARG:HG3	68:O2:111:ARG:O	2.18	0.43
69:O3:6:ARG:CG	69:O3:8:TYR:H	2.73	0.43
70:O4:72:VAL:HG11	85:5:1639:C:H5"	192.46	0.43
71:O5:102:GLU:OE1	71:O5:106:LYS:HE3	2.18	0.43
72:O6:58:ILE:HG22	72:O6:90:MET:CG	2.75	0.43
73:O7:28:HIS:O	73:O7:32:LYS:N	2.50	0.43
74:O8:24:THR:HB	74:O8:76:ASN:HB3	2.64	0.43
74:O8:4:GLU:HG2	74:O8:5:ILE:N	2.33	0.43
78:Q2:26:THR:OG1	78:Q2:71:ARG:HD2	3.24	0.43
2:S0:123:VAL:O	2:S0:145:ALA:HA	2.63	0.43
2:S0:199:PRO:C	2:S0:201:LEU:N	3.30	0.43
2:S0:69:ASN:HB3	2:S0:71:GLU:CD	2.39	0.43
3:S1:183:GLN:HA	3:S1:186:SER:HB2	2.01	0.43
3:S1:223:PHE:O	3:S1:224:ASP:HB3	2.64	0.43
4:S2:111:VAL:CG2	4:S2:191:ALA:HA	2.49	0.43
5:S3:220:PRO:HB3	34:SR:223:TRP:CZ3	3.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S5:156:ARG:HG3	7:S5:156:ARG:H	1.47	0.43
8:S6:48:TYR:OH	8:S6:119:GLN:O	2.30	0.43
34:SR:90:ARG:HH21	34:SR:102:ARG:HE	1.99	0.43
36:1:1039:U:H2'	36:1:1040:A:C8	2.53	0.43
36:1:1094:U:H1'	36:1:1096:U:H2'	2.01	0.43
36:1:1112:A:P	49:M3:5:LYS:HE3	2.59	0.43
36:1:1949:G:N2	36:1:2098:C:H1'	2.33	0.43
36:1:2107:A:C2	36:1:2108:C:C2	3.07	0.43
36:1:2244:A:C4	36:1:2245:C:C5	3.06	0.43
36:1:2321:A:H2'	36:1:2322:C:O4'	2.17	0.43
36:1:648:C:O2	36:1:2397:A:C8	2.72	0.43
36:1:2794:G:HO2'	36:1:2795:U:P	2.32	0.43
36:1:2405:C:O2	36:1:2819:A:N1	2.52	0.43
36:1:3014:U:O2'	36:1:3015:G:H5'	2.19	0.43
36:1:3218:A:OP1	36:1:3218:A:H3'	2.19	0.43
36:1:2841:G:OP2	92:1:3677:OHX:N2	2.52	0.43
36:1:507:U:O4	92:1:3536:OHX:N5	2.52	0.43
1:2:1181:G:C6	1:2:1183:G:C2	3.07	0.43
1:2:1218:C:C2	33:E1:138:ARG:CZ	3.01	0.43
1:2:1236:U:O2'	33:E1:143:LYS:HA	2.18	0.43
1:2:1337:G:C2	1:2:1355:U:C4	3.07	0.43
1:2:1553:A:H2'	1:2:1554:C:O4'	2.18	0.43
1:2:1590:G:H2'	1:2:1591:U:H6	1.83	0.43
1:2:102:U:C4	1:2:360:A:C2	3.07	0.43
1:2:624:G:C2	1:2:625:C:C2	3.07	0.43
1:2:833:A:C2	1:2:834:U:C2	3.06	0.43
37:3:109:G:C6	37:3:110:G:N7	2.86	0.43
38:4:10:A:C5	38:4:11:C:C4	3.07	0.43
38:4:140:G:O3'	51:M5:109:ARG:NH1	2.51	0.43
38:4:149:A:N3	45:L8:55:TYR:OH	2.39	0.43
85:5:1195:A:C4	85:5:1309:U:O2	2.71	0.43
85:5:1282:G:H2'	85:5:1283:C:O4'	2.19	0.43
85:5:189:G:C6	85:5:191:U:O4	2.72	0.43
85:5:2208:A:N7	85:5:2209:U:C5	2.87	0.43
85:5:2249:G:C8	85:5:2272:G:C8	3.06	0.43
85:5:230:U:H2'	85:5:231:G:O4'	2.19	0.43
85:5:244:G:C4	85:5:245:U:C5	3.07	0.43
85:5:2770:G:N2	85:5:2789:U:C2	2.87	0.43
85:5:2827:U:O2	85:5:2827:U:H2'	2.19	0.43
85:5:3076:C:O5'	85:5:3076:C:H6	2.01	0.43
85:5:3094:A:H2'	85:5:3095:U:C6	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:380:MET:HB3	85:5:3369:G:N1	226.14	0.43
85:5:650:C:C2'	85:5:651:G:H5'	2.49	0.43
85:5:735:A:C6	85:5:736:A:C5	3.07	0.43
85:5:772:U:H2'	85:5:773:G:C8	2.54	0.43
80:6:1218:G:H1'	80:6:1265:G:N2	2.33	0.43
80:6:1273:G:C6	80:6:1430:U:C2	3.07	0.43
80:6:1484:G:H2'	80:6:1485:C:H6	1.83	0.43
80:6:15:U:H2'	80:6:16:G:O4'	2.18	0.43
80:6:1695:G:N2	80:6:1705:C:H41	2.17	0.43
80:6:1742:U:C2	80:6:1743:U:C6	3.06	0.43
25:D3:5:LYS:NZ	80:6:611:U:OP2	347.64	0.43
3:S1:65:VAL:HG23	80:6:920:U:H5''	264.04	0.43
80:6:921:U:C2	80:6:922:G:C8	3.07	0.43
38:8:63:G:H1	38:8:97:A:H61	1.66	0.43
14:C2:24:UNK:O	14:C2:25:GLU:HG2	2.19	0.43
14:C2:86:VAL:N	14:C2:87:PRO:HD3	2.47	0.43
18:C6:12:LYS:HD2	18:C6:17:THR:HG22	2.01	0.43
20:C8:90:ASN:O	20:C8:95:GLY:HA2	2.18	0.43
21:C9:125:SER:O	21:C9:129:GLN:N	2.81	0.43
1:2:1525:G:H5''	21:C9:87:GLY:C	2.39	0.43
22:D0:28:SER:OG	22:D0:29:THR:N	2.51	0.43
24:D2:104:LEU:HB2	24:D2:124:LYS:O	2.18	0.43
9:S7:140:VAL:HB	24:D2:52:TYR:HB3	2.26	0.43
24:D2:88:LYS:HB3	24:D2:88:LYS:HE2	3.66	0.43
25:D3:27:ASN:O	25:D3:29:TYR:N	2.83	0.43
26:D4:89:TYR:O	26:D4:93:ARG:HG3	2.18	0.43
7:S5:163:SER:CB	30:D8:48:VAL:HG22	2.45	0.43
32:E0:42:ARG:HB3	32:E0:42:ARG:HH11	1.83	0.43
39:L2:94:ALA:HB3	39:L2:102:LEU:HG	2.35	0.43
39:L2:96:LEU:O	79:Q3:87:ARG:NH1	2.49	0.43
40:L3:260:VAL:HG21	40:L3:266:ARG:NH1	2.34	0.43
42:L5:146:LEU:HD13	42:L5:148:ILE:HD13	5.24	0.43
44:L7:29:GLU:HA	44:L7:32:ALA:HB3	2.01	0.43
46:L9:65:VAL:CG1	46:L9:66:ALA:N	2.82	0.43
47:M0:69:ARG:O	47:M0:72:ALA:N	3.05	0.43
47:M0:87:LEU:HA	47:M0:87:LEU:HD23	2.15	0.43
49:M3:57:VAL:HG13	49:M3:147:ILE:HD13	2.01	0.43
51:M5:47:LYS:HA	51:M5:50:ARG:NH2	2.33	0.43
53:M7:178:ALA:HA	53:M7:181:ARG:HB3	2.01	0.43
54:M8:67:ILE:CG2	54:M8:81:VAL:HG11	3.38	0.43
55:M9:156:ASN:OD1	55:M9:156:ASN:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:M9:77:GLY:O	55:M9:79:GLY:N	2.51	0.43
57:N1:47:SER:O	57:N1:48:ILE:HD13	2.18	0.43
62:N6:102:SER:OG	62:N6:103:LYS:HE3	4.45	0.43
38:4:91:C:H4'	62:N6:24:SER:HB3	2.01	0.43
65:N9:17:HIS:O	65:N9:18:ARG:C	2.56	0.43
65:N9:38:LYS:NZ	85:5:1077:U:OP1	217.70	0.43
66:O0:13:LYS:HB3	66:O0:100:ILE:HG23	2.00	0.43
66:O0:10:ILE:HD12	66:O0:10:ILE:HA	2.12	0.43
69:O3:30:ILE:HD12	69:O3:30:ILE:HG23	1.92	0.43
70:O4:44:CYS:HG	70:O4:47:CYS:HG	1.62	0.43
71:O5:100:VAL:HG22	71:O5:101:THR:H	4.02	0.43
75:O9:37:TYR:HE1	75:O9:39:ALA:HA	3.14	0.43
2:S0:202:TYR:CD2	2:S0:202:TYR:N	2.86	0.43
3:S1:129:THR:HG22	3:S1:176:VAL:HG12	2.01	0.43
3:S1:23:PRO:O	3:S1:26:ARG:HB3	3.00	0.43
4:S2:222:TYR:CE2	23:D1:12:TYR:HD2	2.37	0.43
7:S5:162:VAL:CG2	7:S5:167:ARG:HG2	3.59	0.43
7:S5:59:VAL:HG12	7:S5:60:ASP:H	2.09	0.43
7:S5:65:ARG:HA	7:S5:66:GLN:HA	1.77	0.43
7:S5:89:ILE:H	7:S5:89:ILE:HG13	1.30	0.43
8:S6:148:SER:O	8:S6:151:ASP:HB2	2.80	0.43
8:S6:159:ARG:HG2	8:S6:172:ALA:HB2	3.27	0.43
9:S7:152:VAL:O	9:S7:183:PHE:HA	2.19	0.43
9:S7:46:ILE:HD11	9:S7:60:ILE:HG23	3.33	0.43
10:S8:165:LEU:HD13	10:S8:183:ILE:HD13	2.77	0.43
10:S8:40:ALA:O	10:S8:41:LYS:C	2.85	0.43
11:S9:109:LEU:HD13	11:S9:129:ILE:HD13	2.30	0.43
11:S9:29:LYS:O	11:S9:33:GLU:HG2	5.06	0.43
34:SR:89:LEU:HB2	34:SR:103:PHE:CD2	2.97	0.43
34:SR:122:ILE:O	34:SR:134:TRP:N	2.39	0.43
36:1:1192:C:C4	92:1:3583:OHX:N1	2.85	0.43
36:1:1324:U:C4	36:1:1325:U:C5	3.07	0.43
36:1:1534:A:C8	36:1:1586:G:N2	2.87	0.43
36:1:1748:G:C6	36:1:1749:A:C6	3.07	0.43
36:1:2093:A:H2'	36:1:2094:C:O4'	2.19	0.43
36:1:217:U:C2'	36:1:218:G:OP1	2.67	0.43
36:1:2218:G:C4	36:1:2219:A:C8	3.07	0.43
36:1:2913:C:H2'	36:1:2914:G:C8	2.54	0.43
36:1:3006:A:H2'	36:1:3007:U:O4'	2.19	0.43
36:1:3048:A:C8	36:1:3090:U:O4	2.71	0.43
36:1:3132:C:H2'	36:1:3133:C:H6	1.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3326:G:N3	36:1:3327:G:C8	2.87	0.43
36:1:650:C:H2'	36:1:651:G:C8	2.53	0.43
36:1:999:G:N2	36:1:1003:A:N6	2.67	0.43
1:2:1027:U:O2'	1:2:1028:C:H5'	2.19	0.43
1:2:1421:G:C6	1:2:1422:C:N3	2.87	0.43
1:2:1730:G:H2'	1:2:1731:G:C8	2.53	0.43
1:2:310:C:C4	1:2:357:G:C2	3.07	0.43
1:2:312:A:H4'	1:2:313:U:H5''	2.00	0.43
1:2:386:G:N2	1:2:387:A:C2	2.87	0.43
38:4:139:U:O4	92:4:209:OHX:N4	2.52	0.43
56:N0:141:LYS:HE2	85:5:1287:A:OP1	348.41	0.43
41:L4:193:LYS:NZ	85:5:1420:C:OP2	112.00	0.43
85:5:1536:G:N2	85:5:1537:A:H1'	2.33	0.43
85:5:155:G:C2	85:5:266:A:C6	3.06	0.43
85:5:15:C:H6	85:5:15:C:H5'	1.83	0.43
85:5:1621:A:H2'	85:5:1622:U:H6	1.83	0.43
85:5:1688:U:C4	85:5:1689:U:O4	2.72	0.43
85:5:1690:C:N4	85:5:1691:U:O4	2.51	0.43
85:5:1760:A:N3	85:5:1766:G:C2	2.87	0.43
85:5:185:C:H2'	85:5:186:U:H6	1.83	0.43
85:5:2518:C:H2'	85:5:2519:A:C8	2.48	0.43
85:5:2766:U:H2'	85:5:2767:U:O4'	2.18	0.43
85:5:2865:U:C5	85:5:2866:U:C4	3.07	0.43
85:5:2875:U:C6	85:5:2875:U:H5'	2.48	0.43
85:5:2957:G:C5	85:5:2976:A:C2	3.06	0.43
85:5:511:G:C2	85:5:581:U:O2	2.71	0.43
85:5:611:A:C5	85:5:612:U:C4	3.06	0.43
80:6:48:G:C2	80:6:49:C:C6	3.07	0.43
12:C0:10:LYS:NZ	12:C0:36:ASP:HB3	3.41	0.43
14:C2:94:ALA:O	14:C2:118:ALA:HB3	2.18	0.43
15:C3:84:ILE:HD11	15:C3:89:TYR:HD2	2.35	0.43
16:C4:30:VAL:HG22	16:C4:39:ILE:HG13	2.01	0.43
1:2:885:G:H1	16:C4:51:ASP:CG	2.21	0.43
18:C6:102:LYS:HE2	18:C6:102:LYS:HB3	1.89	0.43
18:C6:12:LYS:HE3	18:C6:12:LYS:HB3	1.90	0.43
18:C6:53:LEU:H	18:C6:53:LEU:HG	1.46	0.43
21:C9:28:LEU:HD23	21:C9:111:ILE:HD11	7.96	0.43
22:D0:96:PRO:HB2	22:D0:97:VAL:H	1.91	0.43
28:D6:3:LYS:HZ1	28:D6:6:ALA:HA	1.84	0.43
1:2:1778:U:H4'	28:D6:84:VAL:HG12	2.01	0.43
29:D7:43:ILE:HD13	29:D7:43:ILE:N	4.20	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D8:12:VAL:HG23	30:D8:52:ASP:O	3.53	0.43
32:E0:4:VAL:O	32:E0:4:VAL:HG12	2.19	0.43
39:L2:145:LYS:HA	39:L2:159:SER:HA	2.90	0.43
40:L3:383:LEU:HD23	40:L3:383:LEU:HA	1.73	0.43
40:L3:63:PRO:HG2	40:L3:348:ARG:HH21	1.84	0.43
41:L4:140:HIS:CD2	41:L4:247:PHE:H	2.37	0.43
41:L4:345:GLU:HB3	41:L4:346:LYS:H	4.15	0.43
41:L4:89:ALA:O	41:L4:90:PHE:O	3.97	0.43
42:L5:109:THR:OG1	42:L5:110:LEU:N	2.51	0.43
42:L5:20:PHE:CE2	37:7:10:C:C5	276.54	0.43
42:L5:218:ARG:HA	42:L5:221:GLU:OE2	2.18	0.43
42:L5:8:LYS:HE2	37:7:15:C:O3'	312.57	0.43
43:L6:41:ILE:HB	43:L6:85:ILE:HB	2.12	0.43
43:L6:76:LEU:HD12	43:L6:138:GLN:HA	2.01	0.43
45:L8:231:LYS:HB2	45:L8:231:LYS:HE3	4.11	0.43
45:L8:41:GLN:OE1	45:L8:44:ARG:NH2	6.47	0.43
46:L9:164:ILE:O	46:L9:164:ILE:HG23	2.21	0.43
46:L9:171:ASP:C	46:L9:173:ARG:N	3.23	0.43
36:1:3185:U:OP1	46:L9:23:ARG:NH1	2.52	0.43
47:M0:50:VAL:HG13	47:M0:166:ILE:O	2.18	0.43
52:M6:77:SER:O	52:M6:80:PHE:HB3	2.18	0.43
54:M8:80:THR:O	54:M8:137:THR:HA	2.83	0.43
55:M9:43:LYS:HG2	55:M9:43:LYS:H	1.70	0.43
56:N0:80:ARG:HB3	56:N0:122:HIS:HB2	2.01	0.43
56:N0:12:ARG:HG3	56:N0:13:ARG:O	3.74	0.43
56:N0:16:THR:O	56:N0:20:PRO:N	3.29	0.43
56:N0:24:LEU:HD23	56:N0:24:LEU:HA	1.93	0.43
56:N0:94:ILE:HD13	56:N0:94:ILE:HG21	1.83	0.43
59:N3:45:ARG:O	59:N3:46:LEU:C	2.57	0.43
59:N3:75:PRO:HB2	59:N3:103:ALA:O	2.19	0.43
60:N4:6:ASP:OD2	60:N4:8:PHE:N	2.51	0.43
62:N6:104:LEU:HD23	62:N6:104:LEU:HA	1.66	0.43
64:N8:77:LYS:O	64:N8:78:LEU:HB3	2.19	0.43
66:O0:76:GLU:HG2	66:O0:76:GLU:H	1.44	0.43
69:O3:85:PHE:CE2	69:O3:89:LEU:HG	4.16	0.43
70:O4:46:ASP:HB2	70:O4:84:CYS:SG	2.58	0.43
70:O4:7:PHE:CD1	70:O4:20:ILE:HD12	4.89	0.43
63:N7:14:VAL:HG23	70:O4:89:ILE:HG21	2.81	0.43
71:O5:90:ARG:O	71:O5:91:ALA:C	2.54	0.43
74:O8:43:PHE:O	74:O8:54:LEU:N	2.43	0.43
36:1:356:C:OP2	92:O9:101:OHX:N1	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Q2:73:GLU:O	78:Q2:74:CYS:C	2.56	0.43
79:Q3:84:ARG:HA	79:Q3:87:ARG:HH12	3.70	0.43
79:Q3:8:VAL:HG22	79:Q3:8:VAL:H	1.65	0.43
3:S1:189:ILE:HG13	3:S1:189:ILE:H	2.36	0.43
4:S2:35:TRP:NE1	4:S2:37:PRO:HB3	2.34	0.43
5:S3:29:LEU:HD21	5:S3:69:LEU:HD11	2.00	0.43
6:S4:131:LEU:HD22	6:S4:137:PRO:HB3	2.01	0.43
7:S5:121:ILE:HG21	7:S5:132:VAL:HG11	2.64	0.43
7:S5:25:LEU:HD22	7:S5:25:LEU:H	1.83	0.43
9:S7:110:GLN:HB3	9:S7:110:GLN:HE21	4.08	0.43
11:S9:82:ARG:NH1	11:S9:149:ARG:HD3	7.67	0.43
35:SM:113:ASP:OD1	35:SM:113:ASP:N	2.52	0.43
36:1:1184:A:C2	36:1:1323:G:C6	3.07	0.43
36:1:1266:G:N2	36:1:1276:U:H1'	2.34	0.43
36:1:1661:G:C2	36:1:1789:G:C2	3.06	0.43
36:1:1798:A:H2'	36:1:1799:A:C8	2.53	0.43
36:1:191:U:H2'	36:1:192:C:C6	2.54	0.43
36:1:2435:G:N7	36:1:2593:A:H2'	2.34	0.43
36:1:90:C:H4'	36:1:282:G:H5''	2.01	0.43
36:1:31:C:OP2	51:M5:188:ARG:NH2	2.51	0.43
36:1:3347:A:C2	36:1:3359:A:N1	2.87	0.43
36:1:807:A:C2	36:1:808:A:N9	2.87	0.43
1:2:1024:G:C2	1:2:1025:G:C6	3.07	0.43
1:2:1122:A:H2'	1:2:1123:G:O4'	2.18	0.43
1:2:1131:C:H2'	1:2:1132:G:H8	1.83	0.43
1:2:1218:C:H2'	33:E1:138:ARG:NH2	2.34	0.43
1:2:38:C:C2'	1:2:39:A:H5'	2.49	0.43
85:5:1313:G:H2'	85:5:1314:C:H6	1.82	0.43
85:5:1330:A:N7	85:5:1332:A:C5	2.87	0.43
85:5:1402:C:N3	85:5:1409:G:N2	2.59	0.43
85:5:1563:C:H2'	85:5:1564:U:O4'	2.19	0.43
85:5:187:A:N3	85:5:211:A:C5	2.87	0.43
85:5:187:A:C4	85:5:211:A:C2	3.07	0.43
85:5:2226:U:C2	85:5:2227:C:C6	3.07	0.43
85:5:23:A:C4	85:5:24:G:C8	3.07	0.43
85:5:303:G:N2	85:5:2778:G:C4	2.87	0.43
85:5:3322:A:H2'	85:5:3323:A:C8	2.54	0.43
92:5:3692:OHX:N5	92:5:3694:OHX:N2	2.66	0.43
51:M5:84:PRO:HB2	85:5:44:U:OP1	166.16	0.43
85:5:651:G:C6	85:5:652:G:C6	3.07	0.43
85:5:87:U:O2	85:5:88:A:C8	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:950:G:C2	85:5:1370:G:C6	3.07	0.43
85:5:978:G:C2'	85:5:979:U:OP2	2.67	0.43
80:6:1030:A:C5	80:6:1792:G:C6	3.07	0.43
80:6:1064:G:H2'	80:6:1065:A:C8	2.53	0.43
80:6:1067:C:H2'	80:6:1068:C:H6	1.84	0.43
80:6:1088:A:C5	80:6:1089:U:H1'	2.53	0.43
80:6:1175:U:H2'	80:6:1176:G:C8	2.53	0.43
80:6:422:G:OP1	92:6:1911:OHX:N3	2.52	0.43
80:6:193:U:C2	80:6:195:G:H1'	2.54	0.43
92:6:2016:OHX:N2	92:6:2023:OHX:N4	2.67	0.43
80:6:26:A:O2'	80:6:27:U:OP2	2.32	0.43
80:6:326:G:N2	80:6:343:C:O2	2.52	0.43
11:S9:131:GLN:NE2	80:6:513:U:O4'	439.26	0.43
80:6:795:U:OP2	92:6:1949:OHX:N4	2.52	0.43
80:6:879:G:H2'	80:6:880:C:C6	2.53	0.43
80:6:894:U:H2'	80:6:895:G:C8	2.53	0.43
12:C0:64:TYR:HB3	12:C0:66:TYR:CE2	2.53	0.43
16:C4:128:LYS:HZ3	16:C4:128:LYS:HG2	1.56	0.43
16:C4:76:ILE:HG23	16:C4:78:ALA:O	2.19	0.43
18:C6:10:PHE:O	18:C6:84:ALA:HA	2.19	0.43
17:C5:119:PHE:HE1	20:C8:119:ILE:HG23	1.83	0.43
20:C8:143:ARG:O	20:C8:144:ARG:HB2	4.58	0.43
20:C8:30:TYR:CE1	80:6:1539:G:C2	352.23	0.43
21:C9:112:GLY:O	21:C9:125:SER:OG	4.00	0.43
25:D3:57:LEU:HD13	32:E0:4:VAL:HG22	5.91	0.43
1:2:159:U:O4	26:D4:116:LYS:HE2	2.18	0.43
29:D7:37:CYS:O	29:D7:39:GLY:N	2.52	0.43
29:D7:51:GLN:HG3	29:D7:51:GLN:H	2.98	0.43
33:E1:98:VAL:HG12	33:E1:99:LYS:H	3.04	0.43
39:L2:187:HIS:CD2	85:5:1794:G:C6	199.30	0.43
39:L2:201:GLY:HA2	39:L2:204:MET:SD	3.16	0.43
39:L2:238:ILE:HG22	39:L2:239:ALA:H	2.79	0.43
39:L2:82:VAL:CG1	39:L2:83:HIS:N	2.82	0.43
41:L4:141:ARG:HA	41:L4:141:ARG:HD3	3.02	0.43
41:L4:141:ARG:C	41:L4:143:GLU:H	3.09	0.43
42:L5:164:LYS:HG2	42:L5:180:PHE:CE2	2.53	0.43
42:L5:187:THR:C	42:L5:189:GLU:H	3.05	0.43
44:L7:144:ILE:H	44:L7:144:ILE:HG13	1.57	0.43
44:L7:174:GLY:C	44:L7:176:TYR:N	2.76	0.43
45:L8:140:VAL:HG22	45:L8:166:LEU:HD21	2.00	0.43
47:M0:10:ARG:HG2	47:M0:11:TYR:CE1	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:M0:34:TYR:CD2	47:M0:92:HIS:CE1	3.07	0.43
48:M1:22:SER:HA	48:M1:66:ALA:CB	3.29	0.43
49:M3:15:ARG:NH2	85:5:96:G:OP1	153.84	0.43
51:M5:65:ARG:HG2	51:M5:127:TYR:CG	2.54	0.43
52:M6:98:ALA:HA	52:M6:101:ARG:HH11	2.64	0.43
52:M6:43:ILE:HD13	52:M6:43:ILE:HG21	1.79	0.43
53:M7:112:LEU:HD12	53:M7:151:THR:O	2.18	0.43
54:M8:81:VAL:HG22	54:M8:101:VAL:HG22	2.00	0.43
55:M9:175:GLN:HG3	55:M9:179:GLU:OE2	3.52	0.43
55:M9:6:THR:HG23	55:M9:9:ARG:HH21	1.83	0.43
57:N1:85:LEU:HD23	57:N1:85:LEU:HA	1.98	0.43
59:N3:71:LYS:HZ2	59:N3:71:LYS:CB	4.08	0.43
62:N6:105:VAL:O	62:N6:105:VAL:HG13	2.72	0.43
62:N6:39:LEU:HD23	62:N6:39:LEU:HA	1.44	0.43
64:N8:91:LEU:HD13	64:N8:91:LEU:HA	1.64	0.43
65:N9:11:ASN:O	65:N9:11:ASN:ND2	3.02	0.43
69:O3:49:ILE:HA	69:O3:99:ARG:O	2.18	0.43
72:O6:26:ILE:HG12	85:5:157:A:C8	84.45	0.43
72:O6:37:THR:HB	72:O6:41:ARG:NH1	3.02	0.43
73:O7:82:SER:OG	73:O7:82:SER:O	3.26	0.43
78:Q2:78:LYS:O	78:Q2:78:LYS:HG2	3.70	0.43
3:S1:103:MET:H	3:S1:215:VAL:HG13	2.74	0.43
3:S1:131:ASP:HB3	3:S1:180:THR:OG1	2.18	0.43
3:S1:47:LEU:N	3:S1:47:LEU:HD12	2.56	0.43
4:S2:140:ARG:HH12	4:S2:229:LEU:HD11	4.34	0.43
5:S3:76:ARG:NH1	5:S3:76:ARG:HB3	3.98	0.43
6:S4:162:ILE:HD12	6:S4:162:ILE:H	4.32	0.43
6:S4:211:LYS:HD3	6:S4:215:ASP:OD2	6.95	0.43
6:S4:71:LYS:O	6:S4:90:ILE:HA	3.27	0.43
8:S6:30:LYS:NZ	8:S6:34:GLN:HG2	5.19	0.43
9:S7:11:GLN:NE2	9:S7:13:PRO:HD2	4.50	0.43
9:S7:126:LEU:HD22	9:S7:173:TYR:HE2	2.45	0.43
34:SR:134:TRP:CD1	34:SR:134:TRP:N	2.87	0.43
34:SR:232:TYR:HD2	34:SR:232:TYR:H	2.37	0.43
36:1:1192:C:C4	92:1:3583:OHX:N5	2.87	0.42
36:1:1321:G:H5''	56:N0:117:ARG:HH22	1.84	0.42
36:1:1615:C:H2'	36:1:1616:U:H6	1.84	0.42
36:1:1722:U:N3	36:1:1723:A:C8	2.87	0.42
36:1:189:G:N2	36:1:191:U:N3	2.67	0.42
36:1:2640:A:C8	36:1:2641:U:C5	3.07	0.42
36:1:2717:U:C2	36:1:2740:A:C2	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3153:U:H5''	36:1:3154:C:OP1	2.19	0.42
36:1:3167:A:OP2	36:1:3167:A:H8	2.02	0.42
36:1:3321:C:H2'	36:1:3322:A:C8	2.54	0.42
36:1:3393:U:H2'	36:1:3394:U:C6	2.54	0.42
36:1:860:G:P	39:L2:181:LYS:NZ	2.92	0.42
36:1:917:A:C6	36:1:918:C:N3	2.86	0.42
36:1:929:A:H2'	36:1:930:U:H6	1.83	0.42
1:2:1064:A:H5''	1:2:1065:C:OP1	2.19	0.42
1:2:1181:G:O3'	31:D9:40:ARG:NH2	2.52	0.42
1:2:1220:G:H2'	1:2:1221:A:C8	2.54	0.42
1:2:1651:G:C6	1:2:1652:U:C4	3.07	0.42
1:2:240:U:H1'	1:2:241:U:OP1	2.19	0.42
1:2:460:A:H3'	1:2:461:G:C8	2.54	0.42
1:2:78:A:H5''	8:S6:159:ARG:HH12	1.84	0.42
37:3:26:C:H5'	42:L5:56:THR:HB	2.01	0.42
85:5:1122:U:N3	85:5:1123:U:C5	2.87	0.42
85:5:1490:A:H61	85:5:1839:A:N6	2.13	0.42
85:5:1561:G:H21	85:5:1562:C:H1'	1.84	0.42
85:5:2105:G:H2'	85:5:2106:A:C8	2.53	0.42
85:5:2440:G:N2	85:5:2508:U:O2	2.51	0.42
85:5:2582:C:O2'	85:5:2583:C:H5'	2.19	0.42
85:5:259:C:O2'	85:5:260:C:H5'	2.19	0.42
85:5:272:G:C6	85:5:294:U:O2	2.72	0.42
85:5:2997:G:C6	85:5:2998:U:C5	3.07	0.42
85:5:3088:G:H2'	85:5:3089:C:C6	2.54	0.42
85:5:3242:G:C6	85:5:3245:A:C2	3.07	0.42
85:5:3389:U:H2'	85:5:3389:U:OP2	2.19	0.42
97:5:3403:SPS:H81	97:5:3403:SPS:H71	1.35	0.42
85:5:600:G:O6	92:5:3622:OHX:N4	2.52	0.42
92:5:3692:OHX:N1	92:5:3694:OHX:N4	2.66	0.42
85:5:411:U:H2'	85:5:412:G:C8	2.53	0.42
85:5:420:G:O5'	85:5:420:G:OP2	2.33	0.42
49:M3:14:PHE:HE1	85:5:665:A:H1'	133.39	0.42
85:5:882:A:H5''	85:5:883:A:OP2	2.18	0.42
80:6:1081:A:H1'	80:6:1082:C:C5	2.54	0.42
80:6:1627:U:C4	80:6:1628:U:C4	3.06	0.42
80:6:1726:G:N7	92:6:1998:OHX:N5	2.66	0.42
80:6:176:C:H3'	80:6:177:U:H6	1.84	0.42
80:6:438:A:H1'	80:6:466:U:O2	2.19	0.42
80:6:706:A:C2	80:6:733:A:C5	3.07	0.42
26:D4:12:VAL:HB	80:6:783:G:C8	423.56	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:7:27:A:H2'	37:7:28:C:C6	2.54	0.42
37:7:80:G:O6	37:7:100:C:C4	2.72	0.42
12:C0:15:LEU:HD11	12:C0:68:LEU:HB2	2.00	0.42
13:C1:8:GLN:HB2	13:C1:8:GLN:HE21	1.43	0.42
14:C2:24:UNK:O	14:C2:26:ASP:N	3.06	0.42
18:C6:98:ASP:O	18:C6:101:SER:OG	2.27	0.42
21:C9:114:VAL:HG21	21:C9:122:ARG:HB3	2.01	0.42
21:C9:10:ALA:HB3	21:C9:13:ASP:HB2	4.54	0.42
22:D0:95:ALA:HB1	22:D0:99:ILE:CG2	2.48	0.42
2:S0:36:TYR:OH	23:D1:66:ASP:OD1	2.81	0.42
24:D2:7:LEU:HD22	24:D2:11:LEU:HG	3.12	0.42
24:D2:53:ILE:HG13	24:D2:54:ASP:N	2.33	0.42
27:D5:46:LYS:O	27:D5:50:ILE:HG13	2.19	0.42
39:L2:122:ASP:C	39:L2:122:ASP:OD2	2.57	0.42
40:L3:114:VAL:HG22	40:L3:163:HIS:CG	2.54	0.42
40:L3:194:TRP:NE1	40:L3:198:HIS:CE1	3.11	0.42
41:L4:271:LYS:O	41:L4:272:VAL:C	2.76	0.42
41:L4:35:VAL:HG12	41:L4:35:VAL:O	2.82	0.42
41:L4:55:LYS:HB2	41:L4:55:LYS:HE2	4.28	0.42
42:L5:254:LYS:HE2	42:L5:255:PRO:O	2.19	0.42
42:L5:263:GLU:O	42:L5:266:ALA:HB3	2.19	0.42
45:L8:166:LEU:O	45:L8:169:LEU:N	3.04	0.42
45:L8:185:ARG:HG3	38:8:154:C:O2'	140.87	0.42
46:L9:10:ILE:O	46:L9:52:LEU:HD23	2.19	0.42
46:L9:90:MET:HG2	46:L9:181:VAL:HG22	2.01	0.42
47:M0:213:PHE:N	47:M0:214:PRO:HD3	2.34	0.42
50:M4:115:PHE:CE2	50:M4:119:GLN:NE2	3.91	0.42
50:M4:65:LEU:HG	56:N0:172:TYR:OH	2.18	0.42
51:M5:126:THR:O	51:M5:126:THR:HG22	2.53	0.42
50:M4:120:VAL:HG23	52:M6:197:LEU:HD13	2.01	0.42
54:M8:135:GLN:CD	54:M8:135:GLN:H	2.20	0.42
54:M8:93:ILE:HG21	54:M8:93:ILE:HD13	1.75	0.42
55:M9:23:TRP:CZ3	55:M9:25:ASP:HB3	2.54	0.42
36:1:1322:U:P	56:N0:117:ARG:HH21	2.41	0.42
52:M6:26:GLN:NE2	56:N0:163:PHE:HE2	2.91	0.42
56:N0:71:LYS:O	56:N0:73:LYS:HG2	3.49	0.42
57:N1:100:LYS:HE3	57:N1:100:LYS:HB3	1.90	0.42
57:N1:42:ILE:HD13	57:N1:42:ILE:HG21	1.68	0.42
59:N3:85:TRP:H	59:N3:85:TRP:HE3	1.64	0.42
61:N5:86:VAL:HG12	61:N5:87:SER:N	2.49	0.42
63:N7:14:VAL:HG12	63:N7:79:HIS:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:N7:60:LYS:O	63:N7:63:ALA:HB3	2.31	0.42
36:1:1715:A:N7	66:O0:84:LEU:HD22	2.34	0.42
68:O2:47:ARG:HG2	68:O2:48:GLY:N	2.34	0.42
69:O3:38:PRO:HD3	69:O3:77:ASN:O	2.82	0.42
76:Q0:126:LYS:HA	76:Q0:126:LYS:HD3	1.68	0.42
46:L9:172:ILE:HD12	76:Q0:90:ASN:HB3	3.88	0.42
2:S0:119:ARG:HE	4:S2:240:LEU:HD23	1.84	0.42
2:S0:189:VAL:HG22	2:S0:190:ASP:H	1.83	0.42
4:S2:41:LEU:HA	4:S2:41:LEU:HD22	1.72	0.42
6:S4:26:CYS:SG	80:6:461:G:H5''	364.22	0.42
7:S5:118:LEU:HA	7:S5:118:LEU:HD23	1.79	0.42
8:S6:24:ILE:C	8:S6:26:VAL:H	2.22	0.42
11:S9:82:ARG:O	11:S9:149:ARG:HB3	5.19	0.42
1:2:462:G:OP1	11:S9:3:ARG:HG2	2.18	0.42
34:SR:150:TRP:HB2	34:SR:174:ASN:HB2	2.01	0.42
34:SR:90:ARG:NH2	34:SR:102:ARG:HE	2.50	0.42
36:1:1397:C:C4	36:1:1398:U:C4	3.07	0.42
36:1:157:A:H2'	36:1:158:G:O4'	2.19	0.42
36:1:1673:G:C6	36:1:1775:G:C5	3.07	0.42
36:1:2122:G:C6	36:1:2332:A:C2	3.07	0.42
36:1:2124:G:C2	36:1:2125:A:C8	3.08	0.42
36:1:1901:A:O3'	36:1:2918:G:H5'	2.19	0.42
36:1:3062:G:H1	36:1:3081:C:N4	2.16	0.42
36:1:3111:U:C4	36:1:3112:G:N7	2.87	0.42
92:1:3487:OHX:N1	92:1:3571:OHX:N3	2.67	0.42
92:1:3525:OHX:N3	92:1:3563:OHX:N4	2.67	0.42
36:1:405:U:H5'	36:1:1417:G:OP1	2.19	0.42
1:2:153:G:C6	1:2:154:G:C6	3.07	0.42
1:2:1797:A:H3'	1:2:1798:A:H5''	2.00	0.42
1:2:432:G:H2'	1:2:433:C:O4'	2.19	0.42
38:4:19:C:H2'	38:4:20:U:C6	2.54	0.42
38:4:88:A:H2'	38:4:89:A:O4'	2.19	0.42
85:5:1254:C:O2'	85:5:1255:C:H5'	2.19	0.42
85:5:1345:G:N7	92:5:3566:OHX:N5	2.67	0.42
85:5:1446:A:C8	85:5:1448:U:C2	3.06	0.42
85:5:1641:U:O2'	85:5:1642:A:H3'	2.19	0.42
85:5:1659:U:O4	92:5:3700:OHX:N4	2.51	0.42
85:5:1737:U:H2'	85:5:1738:C:H6	1.84	0.42
85:5:1752:A:H2'	85:5:1753:G:H8	1.83	0.42
85:5:21:G:N7	38:8:37:A:C6	2.87	0.42
85:5:2272:G:OP2	85:5:2272:G:N2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:2276:G:C5	85:5:2277:C:C5	3.06	0.42
85:5:2356:A:N6	85:5:2357:A:C6	2.87	0.42
85:5:2370:G:O6	85:5:2371:G:C6	2.72	0.42
85:5:3098:G:H5''	85:5:3099:C:OP1	2.19	0.42
85:5:3105:U:C6	85:5:3128:G:N2	2.88	0.42
85:5:3170:A:C2	85:5:3281:U:C2	3.07	0.42
85:5:3307:A:C6	85:5:3308:C:C4	3.07	0.42
85:5:337:G:C6	85:5:339:C:C4	3.07	0.42
85:5:528:U:C2	85:5:529:A:N7	2.87	0.42
85:5:572:A:C4	85:5:573:C:C6	3.06	0.42
85:5:510:G:C2	85:5:582:G:C4	3.07	0.42
85:5:848:A:C4	85:5:849:C:H1'	2.54	0.42
80:6:1081:A:O2'	80:6:1082:C:O5'	2.28	0.42
80:6:1087:A:H5'	80:6:1298:U:C4	2.54	0.42
80:6:151:G:N2	80:6:163:G:N2	2.67	0.42
80:6:973:A:C2	80:6:974:A:C5	3.06	0.42
38:8:10:A:C8	38:8:11:C:C5	3.07	0.42
38:8:65:A:C2	38:8:96:A:C5	3.08	0.42
14:C2:46:ARG:HA	14:C2:49:THR:OG1	2.66	0.42
15:C3:47:PRO:HG3	15:C3:75:LEU:HD22	2.00	0.42
16:C4:13:VAL:HG11	16:C4:75:GLY:O	2.19	0.42
16:C4:91:THR:O	16:C4:93:THR:N	2.51	0.42
17:C5:33:PHE:HZ	17:C5:112:LEU:HB3	2.15	0.42
17:C5:34:VAL:O	17:C5:42:ARG:HG2	2.19	0.42
17:C5:65:LEU:O	17:C5:67:ALA:N	2.52	0.42
19:C7:66:VAL:HG22	19:C7:69:ILE:HD11	4.71	0.42
20:C8:117:LYS:HB3	20:C8:117:LYS:NZ	5.30	0.42
21:C9:86:ARG:HG3	21:C9:86:ARG:HH11	1.83	0.42
21:C9:94:ILE:HD12	21:C9:94:ILE:HA	1.64	0.42
22:D0:96:PRO:HD2	22:D0:99:ILE:HG13	5.13	0.42
13:C1:101:GLU:CD	25:D3:16:ARG:HH22	2.92	0.42
1:2:435:C:OP1	25:D3:49:ALA:HA	2.19	0.42
25:D3:57:LEU:HD11	25:D3:73:ARG:CG	2.49	0.42
26:D4:20:ARG:NH2	26:D4:76:TYR:OH	3.91	0.42
27:D5:96:SER:C	27:D5:98:GLN:H	2.22	0.42
31:D9:19:ARG:H	31:D9:19:ARG:HG2	1.68	0.42
41:L4:264:SER:OG	41:L4:267:VAL:HG12	4.32	0.42
43:L6:5:LYS:HD2	43:L6:5:LYS:HA	1.46	0.42
44:L7:189:ILE:HG23	44:L7:190:THR:CG2	2.68	0.42
45:L8:238:LEU:HD23	45:L8:242:ALA:CB	2.48	0.42
46:L9:20:ILE:HG12	50:M4:7:VAL:HG22	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:2645:G:OP2	47:M0:117:GLY:HA2	2.19	0.42
47:M0:173:PHE:CD1	47:M0:173:PHE:N	2.86	0.42
47:M0:76:MET:O	47:M0:80:SER:OG	2.36	0.42
48:M1:116:TYR:CD1	48:M1:118:PRO:HD3	3.93	0.42
48:M1:81:GLU:C	48:M1:83:GLY:H	2.22	0.42
49:M3:93:ILE:HA	49:M3:93:ILE:HD13	1.70	0.42
50:M4:39:ILE:HD13	50:M4:39:ILE:HG23	2.29	0.42
51:M5:149:ASN:OD1	92:M5:302:OHX:N2	2.52	0.42
36:1:3185:U:C4	52:M6:126:VAL:HG21	2.54	0.42
53:M7:136:ILE:HD11	85:5:1846:C:C4	144.12	0.42
54:M8:40:THR:C	54:M8:42:ALA:H	2.22	0.42
56:N0:17:GLU:O	56:N0:20:PRO:HD3	2.19	0.42
44:L7:77:VAL:HG12	56:N0:59:VAL:HA	2.01	0.42
62:N6:28:ARG:HB2	62:N6:75:ARG:NH1	2.34	0.42
64:N8:112:ILE:HD12	64:N8:112:ILE:HG23	1.75	0.42
68:O2:64:LYS:O	68:O2:65:PHE:HB2	2.21	0.42
68:O2:5:PRO:HB2	68:O2:6:HIS:H	3.87	0.42
76:Q0:97:ARG:NH1	76:Q0:122:ARG:HB3	2.33	0.42
79:Q3:77:ALA:O	79:Q3:80:ARG:N	3.21	0.42
3:S1:81:PHE:CE1	3:S1:109:LYS:HE2	2.54	0.42
3:S1:229:MET:HA	3:S1:232:HIS:ND1	2.34	0.42
5:S3:135:GLU:HG3	5:S3:153:ALA:HB2	3.21	0.42
5:S3:175:VAL:O	5:S3:175:VAL:HG13	2.28	0.42
6:S4:191:ARG:CZ	6:S4:245:LYS:HD2	4.03	0.42
6:S4:61:VAL:O	6:S4:65:LEU:HD12	2.19	0.42
6:S4:9:LEU:HD12	6:S4:30:ARG:HA	2.02	0.42
8:S6:153:VAL:O	8:S6:154:ARG:C	2.74	0.42
10:S8:84:HIS:NE2	10:S8:90:LEU:HD13	2.76	0.42
11:S9:131:GLN:C	11:S9:132:ARG:HG2	3.00	0.42
5:S3:124:ARG:NH2	35:SM:124:GLN:HB2	2.34	0.42
34:SR:90:ARG:HG2	34:SR:102:ARG:HG2	2.91	0.42
34:SR:200:ASN:CG	34:SR:215:GLY:HA2	2.71	0.42
36:1:1103:A:N3	36:1:1103:A:H2'	2.34	0.42
36:1:1189:C:N4	52:M6:133:ARG:NH2	2.68	0.42
36:1:1190:A:H2'	36:1:1190:A:N3	2.33	0.42
36:1:1223:A:O5'	36:1:1223:A:H8	2.02	0.42
36:1:1461:A:H2'	36:1:1462:A:H8	1.84	0.42
36:1:162:G:C4	36:1:163:C:C6	3.08	0.42
36:1:1662:G:N2	36:1:1788:C:O2	2.53	0.42
36:1:1809:A:N7	36:1:1810:A:C8	2.88	0.42
36:1:1821:U:C2	70:O4:67:LYS:HB2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1834:U:H3'	36:1:1835:A:H5'	2.01	0.42
36:1:2291:A:O2'	36:1:2292:U:H5'	2.19	0.42
36:1:2284:C:C4	36:1:2308:C:O4'	2.72	0.42
36:1:233:C:H2'	36:1:234:G:O4'	2.19	0.42
36:1:2707:C:C2	36:1:2708:C:C5	3.07	0.42
36:1:2898:G:O6	76:Q0:125:LYS:NZ	2.52	0.42
36:1:2994:A:H8	36:1:2994:A:O5'	2.02	0.42
36:1:3017:A:C2	36:1:3038:U:C2	3.07	0.42
36:1:2892:A:C6	36:1:3130:A:N6	2.87	0.42
36:1:3134:A:H2'	36:1:3134:A:N3	2.34	0.42
36:1:3343:G:O6	92:1:3694:OHX:N4	2.53	0.42
36:1:3366:G:H2'	36:1:3367:C:C6	2.54	0.42
36:1:595:G:C6	36:1:609:G:H5''	2.54	0.42
36:1:771:A:C6	36:1:772:U:C2	3.08	0.42
1:2:1249:U:H2'	1:2:1250:G:C8	2.54	0.42
1:2:1315:C:O2'	5:S3:162:GLN:HB3	2.19	0.42
1:2:1435:U:H2'	1:2:1436:G:C8	2.54	0.42
1:2:1515:U:O2'	20:C8:27:LYS:NZ	2.51	0.42
1:2:1152:G:N1	1:2:1558:G:OP2	2.34	0.42
1:2:1739[A]:A:H8	1:2:1739[A]:A:OP2	2.02	0.42
1:2:213:A:OP2	92:2:1994:OHX:N1	2.52	0.42
1:2:511:A:N6	1:2:512:A:N6	2.67	0.42
1:2:614:C:C4	1:2:615:A:N7	2.87	0.42
1:2:687:C:OP2	1:2:687:C:H3'	2.20	0.42
1:2:835:C:OP1	55:M9:172:ARG:HB3	2.20	0.42
1:2:851:G:C2	1:2:944:U:C2	3.07	0.42
37:3:112:G:H2'	37:3:113:C:C6	2.54	0.42
37:3:13:A:H8	37:3:13:A:H5'	1.84	0.42
37:3:68:C:OP1	42:L5:14:SER:OG	2.22	0.42
85:5:1019:G:H2'	85:5:1020:G:C8	2.55	0.42
85:5:1049:C:C2	85:5:1050:U:C5	3.08	0.42
85:5:138:U:O2'	85:5:139:G:H5'	2.19	0.42
85:5:1479:U:H2'	85:5:1480:G:H5'	2.01	0.42
85:5:167:U:H3	85:5:255:A:H2	1.66	0.42
85:5:1861:G:N7	85:5:1862:U:C5	2.87	0.42
85:5:1915:A:H2'	85:5:1916:U:C6	2.54	0.42
85:5:1952:G:N1	85:5:1953:G:N7	2.67	0.42
85:5:2147:A:H2'	85:5:2148:U:O4'	2.20	0.42
39:L2:241:ARG:HG2	85:5:2155:G:OP1	220.68	0.42
85:5:2189:U:C4	85:5:2190:U:C5	3.07	0.42
85:5:2288:G:OP1	92:5:3463:OHX:N4	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:O0:50:VAL:HG11	85:5:2552:C:H2'	233.65	0.42
85:5:2569:A:H4'	85:5:2570:U:H5'	2.02	0.42
85:5:994:G:H5'	85:5:2637:A:O2'	2.19	0.42
85:5:2865:U:C4	85:5:2866:U:C4	3.07	0.42
85:5:2875:U:OP2	85:5:2945:G:N1	2.31	0.42
85:5:3071:U:C5	85:5:3072:C:C4	3.07	0.42
85:5:3301:U:O4	92:5:3430:OHX:N4	2.52	0.42
85:5:1861:G:OP2	92:5:3498:OHX:N2	2.52	0.42
85:5:580:C:N4	85:5:581:U:C4	2.87	0.42
85:5:663:C:H2'	85:5:664:U:O4'	2.20	0.42
80:6:971:A:H61	85:5:846:A:N6	2.16	0.42
21:C9:37:VAL:HG13	80:6:1503:A:O2'	385.28	0.42
80:6:1498:G:N2	80:6:1510:U:O2	2.52	0.42
80:6:151:G:C4	80:6:152:U:C5	3.07	0.42
80:6:156:A:H2'	80:6:157:A:O4'	2.20	0.42
80:6:271:A:C2	80:6:285:G:N1	2.88	0.42
80:6:477:A:C5	80:6:538:A:N6	2.87	0.42
80:6:548:G:C6	80:6:549:G:C5	3.07	0.42
80:6:766:U:C4	80:6:769:A:C8	3.07	0.42
80:6:69:G:N2	80:6:82:U:O2	2.53	0.42
37:7:16:U:H3	37:7:63:A:H2	1.66	0.42
13:C1:53:TYR:CE1	13:C1:113:PRO:HG2	2.54	0.42
1:2:938:A:H5''	15:C3:10:GLY:HA3	2.02	0.42
17:C5:16:SER:HA	17:C5:21:ASP:HA	2.76	0.42
19:C7:41:ILE:HD12	19:C7:47:ARG:HG2	3.16	0.42
20:C8:110:ARG:NH1	20:C8:110:ARG:HB3	2.34	0.42
20:C8:128:PHE:CD2	35:SM:61:ILE:HG13	6.17	0.42
21:C9:131:ASP:O	21:C9:134:ARG:HB3	2.19	0.42
23:D1:37:ALA:HA	23:D1:50:TYR:HA	2.01	0.42
24:D2:28:ARG:HA	24:D2:29:PRO:HA	2.00	0.42
24:D2:28:ARG:HD2	24:D2:28:ARG:HH11	1.65	0.42
24:D2:79:PHE:O	24:D2:124:LYS:HA	2.79	0.42
25:D3:62:LYS:HG3	25:D3:118:PRO:HD3	2.01	0.42
28:D6:19:LYS:HG3	28:D6:20:PRO:HD2	2.01	0.42
16:C4:114:ARG:HG3	28:D6:62:TYR:OH	2.20	0.42
28:D6:82:ARG:HB3	28:D6:83:ILE:H	1.51	0.42
29:D7:36:LYS:HE2	29:D7:43:ILE:HG21	2.01	0.42
39:L2:200:ARG:O	39:L2:201:GLY:C	2.58	0.42
40:L3:142:ALA:O	40:L3:144:ILE:N	3.44	0.42
40:L3:306:THR:HG22	40:L3:307:PRO:O	2.99	0.42
40:L3:212:ASN:ND2	40:L3:353:GLU:HG2	3.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:95:THR:O	40:L3:97:ARG:N	2.51	0.42
41:L4:131:VAL:O	41:L4:135:VAL:HG23	2.75	0.42
41:L4:208:VAL:HA	41:L4:228:ALA:O	2.58	0.42
42:L5:237:GLU:O	42:L5:241:THR:HB	3.30	0.42
44:L7:100:ARG:O	44:L7:101:LYS:C	2.56	0.42
44:L7:132:PRO:HA	44:L7:229:PHE:CE1	2.54	0.42
44:L7:149:TYR:HE2	44:L7:181:ILE:CG2	2.75	0.42
45:L8:164:VAL:HG22	45:L8:164:VAL:H	1.63	0.42
45:L8:26:LEU:HD21	63:N7:123:GLN:HG2	2.01	0.42
46:L9:39:LYS:C	46:L9:41:ILE:H	2.22	0.42
47:M0:35:ASP:OD1	47:M0:86:HIS:NE2	2.83	0.42
47:M0:52:LEU:HB3	47:M0:136:PHE:H	2.40	0.42
47:M0:80:SER:O	47:M0:84:ALA:HB2	2.18	0.42
48:M1:122:ILE:HA	48:M1:122:ILE:HD13	1.95	0.42
48:M1:152:HIS:O	48:M1:153:LYS:HB3	4.68	0.42
48:M1:81:GLU:C	48:M1:83:GLY:N	2.72	0.42
49:M3:123:ILE:HG12	49:M3:124:ILE:N	4.18	0.42
49:M3:24:VAL:O	49:M3:26:PHE:N	2.61	0.42
50:M4:116:GLU:O	50:M4:120:VAL:HG23	2.88	0.42
52:M6:33:ILE:HG22	52:M6:34:VAL:N	2.61	0.42
52:M6:75:ALA:O	52:M6:76:PRO:C	2.79	0.42
54:M8:120:GLU:CD	54:M8:130:ARG:HH22	2.33	0.42
61:N5:142:ILE:HD13	61:N5:142:ILE:HA	1.78	0.42
61:N5:51:VAL:HG22	61:N5:51:VAL:O	2.70	0.42
63:N7:24:VAL:HG23	63:N7:44:ALA:O	3.11	0.42
64:N8:45:MET:HA	64:N8:45:MET:HE3	3.04	0.42
67:O1:27:LYS:C	67:O1:30:PRO:HD2	2.40	0.42
68:O2:122:PRO:O	68:O2:123:LYS:CB	4.20	0.42
69:O3:38:PRO:HG3	69:O3:76:GLY:O	2.19	0.42
72:O6:26:ILE:H	72:O6:26:ILE:HG13	1.39	0.42
72:O6:37:THR:O	72:O6:38:LYS:C	2.78	0.42
76:Q0:103:LEU:HA	76:Q0:103:LEU:HD23	1.72	0.42
2:S0:146:LEU:HD23	2:S0:146:LEU:N	2.85	0.42
4:S2:133:LYS:O	4:S2:135:SER:N	2.52	0.42
4:S2:164:SER:OG	80:6:14:C:OP1	373.99	0.42
6:S4:46:VAL:O	6:S4:46:VAL:HG12	2.63	0.42
7:S5:152:GLY:O	7:S5:154:ALA:N	2.52	0.42
8:S6:21:GLU:OE1	8:S6:25:ARG:HD3	5.77	0.42
8:S6:75:LEU:HD23	8:S6:75:LEU:N	3.00	0.42
11:S9:102:GLU:O	11:S9:104:PHE:N	3.47	0.42
11:S9:75:ALA:O	11:S9:79:ARG:HG3	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:SR:124:SER:O	34:SR:131:ILE:HG23	2.76	0.42
34:SR:238:ASP:HB2	34:SR:257:ALA:HB3	2.02	0.42
36:1:104:G:C6	36:1:105:C:C4	3.07	0.42
36:1:1257:C:H42	36:1:1261:G:N2	2.17	0.42
36:1:1467:A:N6	36:1:1470:U:C2	2.87	0.42
36:1:1597:C:H2'	36:1:1598:G:C8	2.54	0.42
36:1:2299:A:C6	36:1:2300:G:C5	3.07	0.42
36:1:2415:C:OP1	39:L2:2:GLY:N	2.53	0.42
36:1:3015:G:N2	36:1:3040:A:H1'	2.34	0.42
36:1:3121:U:C4	36:1:3124:G:O6	2.72	0.42
36:1:3174:A:C5	36:1:3175:U:C4	3.07	0.42
92:1:3507:OHX:N5	92:1:3691:OHX:N2	2.67	0.42
36:1:389:A:O4'	53:M7:101:ASN:ND2	2.53	0.42
36:1:38:U:H2'	36:1:39:A:O4'	2.20	0.42
36:1:511:G:C6	36:1:512:U:N3	2.87	0.42
36:1:527:A:C6	36:1:528:U:C4	3.08	0.42
36:1:54:C:O2'	36:1:1547:G:H1'	2.18	0.42
36:1:597:G:O3'	44:L7:41:ARG:NH2	2.52	0.42
1:2:1018:G:C2	1:2:1084:G:C5	3.07	0.42
1:2:1093:G:C2	1:2:1119:U:O2	2.72	0.42
1:2:1186:A:C2	1:2:1539:A:C4	3.07	0.42
1:2:1518:U:H5	7:S5:186:ASN:CA	2.32	0.42
1:2:1757:G:N7	77:Q1:4:LYS:NZ	2.58	0.42
1:2:580:A:N1	1:2:583:C:C2	2.88	0.42
1:2:598:U:H2'	1:2:599:A:C8	2.54	0.42
1:2:635:A:C8	1:2:846:A:C6	3.07	0.42
1:2:896:G:H4'	1:2:897:G:OP2	2.15	0.42
1:2:978:A:H2'	1:2:979:U:O4'	2.19	0.42
37:3:120:C:C4	42:L5:265:TYR:CD2	3.08	0.42
85:5:1097:G:N3	85:5:1097:G:H2'	2.34	0.42
85:5:1217:A:C2	85:5:1289:G:C6	3.08	0.42
85:5:1394:A:H4'	85:5:1420:C:H4'	2.01	0.42
85:5:174:C:H2'	85:5:175:C:C6	2.55	0.42
85:5:1853:U:H3'	85:5:1853:U:H6	1.85	0.42
85:5:2220:A:N6	85:5:2221:G:O6	2.52	0.42
57:N1:54:HIS:NE2	85:5:2724:U:H4'	228.75	0.42
85:5:2884:C:N3	85:5:2939:G:C6	2.87	0.42
85:5:3103:A:N1	85:5:3104:U:C2	2.87	0.42
85:5:395:A:H5''	85:5:396:A:OP2	2.19	0.42
85:5:541:U:O2	85:5:550:A:N1	2.53	0.42
85:5:565:U:H2'	85:5:566:G:O4'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:752:C:H2'	85:5:753:C:C6	2.53	0.42
85:5:813:G:N2	85:5:814:U:C2	2.87	0.42
80:6:1045:C:H2'	80:6:1046:G:H8	1.84	0.42
33:E1:91:ILE:HB	80:6:1445:G:N1	386.46	0.42
80:6:1465:C:C4	80:6:1466:G:C8	3.07	0.42
80:6:1492:A:O2'	80:6:1493:A:C8	2.72	0.42
20:C8:122:HIS:CG	80:6:1558:U:C5	362.37	0.42
80:6:1010:C:OP2	92:6:1973:OHX:N4	2.51	0.42
80:6:921:U:O4	92:6:2032:OHX:N3	2.52	0.42
80:6:454:U:H2'	80:6:455:C:C5	2.55	0.42
80:6:496:G:O6	80:6:497:G:N2	2.42	0.42
80:6:482:U:H3	80:6:505:A:H61	1.67	0.42
80:6:730:G:C5	80:6:731:C:C4	3.07	0.42
80:6:800:U:H2'	80:6:801:G:C8	2.50	0.42
12:C0:30:ALA:O	12:C0:31:LYS:HB2	3.65	0.42
14:C2:94:ALA:HB1	14:C2:119:SER:H	1.84	0.42
15:C3:32:SER:O	15:C3:36:GLN:HG2	2.19	0.42
19:C7:20:TYR:CZ	19:C7:38:ILE:HD11	2.54	0.42
20:C8:109:LEU:HD12	20:C8:109:LEU:HA	2.23	0.42
20:C8:122:HIS:CD2	80:6:1558:U:C4	360.45	0.42
22:D0:80:GLU:OE1	31:D9:44:ARG:NH1	2.52	0.42
28:D6:45:VAL:O	28:D6:46:GLU:HG2	3.23	0.42
40:L3:47:LEU:HG	40:L3:335:ILE:HD11	2.14	0.42
42:L5:215:ASP:OD2	42:L5:217:GLU:HB3	2.20	0.42
36:1:2526:C:C2	45:L8:48:ARG:NH2	2.87	0.42
49:M3:123:ILE:HG22	71:O5:118:ILE:HG23	2.77	0.42
52:M6:191:ALA:O	52:M6:192:LYS:C	3.01	0.42
52:M6:60:LYS:NZ	85:5:1307:G:C2	249.01	0.42
52:M6:58:LEU:HD12	52:M6:72:HIS:CD2	3.39	0.42
53:M7:89:LYS:O	53:M7:90:PHE:C	3.28	0.42
55:M9:106:LEU:O	55:M9:120:TYR:CD1	4.01	0.42
55:M9:25:ASP:HB3	55:M9:28:GLU:HB2	5.27	0.42
57:N1:157:GLU:O	57:N1:159:PHE:CE2	6.21	0.42
57:N1:17:ARG:HG3	85:5:2700:G:H5''	265.82	0.42
57:N1:63:VAL:HG12	57:N1:64:VAL:N	2.51	0.42
57:N1:30:TYR:OH	57:N1:94:GLU:OE2	3.31	0.42
59:N3:11:PHE:CG	59:N3:88:ARG:HD2	2.54	0.42
59:N3:135:VAL:HG21	60:N4:26:SER:OG	3.58	0.42
62:N6:58:VAL:HG22	62:N6:104:LEU:HD21	2.13	0.42
62:N6:50:ILE:HG23	62:N6:51:ARG:N	2.35	0.42
63:N7:77:TYR:O	63:N7:79:HIS:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:N8:118:ILE:HD13	64:N8:118:ILE:HG21	2.27	0.42
49:M3:167:PHE:CD1	64:N8:132:LYS:HB2	2.59	0.42
64:N8:28:HIS:CE1	64:N8:32:ARG:NH2	2.87	0.42
64:N8:82:ILE:HG21	64:N8:87:ARG:HA	2.02	0.42
63:N7:4:PHE:CE2	66:O0:35:ARG:HA	2.65	0.42
68:O2:112:ALA:O	68:O2:116:GLY:N	3.15	0.42
69:O3:73:ARG:HD3	69:O3:82:ARG:HD2	2.92	0.42
71:O5:49:LYS:HD2	71:O5:49:LYS:HA	1.74	0.42
71:O5:78:LYS:HB3	38:8:38:U:O2	74.57	0.42
75:O9:27:ILE:HD13	75:O9:27:ILE:HG21	1.73	0.42
78:Q2:10:THR:O	78:Q2:23:HIS:HE1	2.02	0.42
78:Q2:28:TYR:CE1	78:Q2:30:ALA:HA	4.65	0.42
78:Q2:88:CYS:SG	78:Q2:88:CYS:O	2.77	0.42
2:S0:119:ARG:HB3	2:S0:119:ARG:CZ	2.81	0.42
2:S0:22:THR:HG22	2:S0:169:SER:CB	2.50	0.42
3:S1:218:LEU:HA	3:S1:218:LEU:HD23	4.19	0.42
6:S4:159:THR:HG23	6:S4:173:ILE:HD13	2.78	0.42
6:S4:163:ASP:HB3	6:S4:164:LEU:H	3.22	0.42
7:S5:176:THR:O	7:S5:177:ILE:C	2.94	0.42
8:S6:31:ARG:HG2	8:S6:34:GLN:OE1	4.64	0.42
8:S6:55:GLY:N	8:S6:63:MET:HE3	3.52	0.42
9:S7:38:LEU:HA	9:S7:38:LEU:HD23	2.46	0.42
9:S7:50:ASP:O	9:S7:51:VAL:HG23	3.55	0.42
5:S3:222:VAL:HB	34:SR:192:PHE:HA	2.01	0.42
34:SR:44:SER:OG	34:SR:58:VAL:HG13	3.98	0.42
18:C6:94:GLN:OE1	34:SR:60:SER:HB3	4.05	0.42
34:SR:28:GLY:N	34:SR:75:ALA:O	2.39	0.42
36:1:1097:G:H4'	36:1:1098:A:O5'	2.19	0.42
36:1:1108:U:O2'	36:1:1109:U:H5'	2.20	0.42
36:1:1158:A:C5	44:L7:93:ASN:ND2	2.85	0.42
36:1:1192:C:N4	92:1:3583:OHX:N1	2.68	0.42
36:1:1488:G:N3	36:1:1489:A:C8	2.87	0.42
36:1:1488:G:C2	36:1:1489:A:N7	2.87	0.42
36:1:1902:G:H3'	36:1:1903:U:H6	1.85	0.42
36:1:199:A:N3	36:1:201:A:C8	2.88	0.42
36:1:2325:G:C5	36:1:2326:A:N7	2.87	0.42
36:1:2969:A:H2'	36:1:2970:C:H6	1.83	0.42
36:1:3020:U:OP2	36:1:3021:A:O2'	2.27	0.42
36:1:3088:G:H8	36:1:3088:G:O5'	2.02	0.42
36:1:3103:A:N6	36:1:3104:U:C4	2.87	0.42
36:1:3102:G:H2'	36:1:3103:A:O4'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:3255:U:H2'	36:1:3256:G:H8	1.84	0.42
36:1:330:G:OP2	92:1:3576:OHX:N2	2.53	0.42
36:1:3325:G:H5'	67:O1:104:LEU:O	2.19	0.42
92:1:3585:OHX:N6	92:1:3694:OHX:N4	2.67	0.42
36:1:409:A:P	92:1:3589:OHX:N6	2.92	0.42
36:1:561:C:H2'	36:1:562:C:H6	1.84	0.42
36:1:629:U:O5'	36:1:629:U:H6	2.03	0.42
36:1:63:A:N6	36:1:64:G:O6	2.52	0.42
36:1:661:G:O6	36:1:802:C:C4	2.72	0.42
36:1:929:A:C5	36:1:930:U:C5	3.07	0.42
1:2:1005:C:N4	1:2:1006:A:N1	2.67	0.42
1:2:1146:A:N6	1:2:1147:G:C5	2.88	0.42
1:2:1271:G:H1	1:2:1310:C:N4	2.10	0.42
1:2:1470:A:H2'	1:2:1471:G:O4'	2.19	0.42
1:2:1486:A:C6	1:2:1487:G:C6	3.08	0.42
1:2:206:A:OP2	92:2:1977:OHX:N5	2.52	0.42
1:2:746:G:C6	1:2:747:U:C4	3.08	0.42
38:4:31:G:C6	38:4:32:C:C4	3.07	0.42
38:4:83:C:H1'	38:4:85:G:N2	2.34	0.42
85:5:1060:U:H2'	85:5:1061:A:C8	2.55	0.42
41:L4:107:ARG:NH1	85:5:1429:G:OP2	125.56	0.42
85:5:1509:A:C6	85:5:1510:G:N1	2.88	0.42
85:5:201:A:H4'	85:5:220:G:C6	2.55	0.42
70:O4:99:LYS:NZ	85:5:2555:G:O6	214.98	0.42
85:5:2572:C:O2	85:5:2573:G:C8	2.73	0.42
85:5:256:G:C5	85:5:257:U:C5	3.08	0.42
85:5:2668:U:H2'	85:5:2669:G:O4'	2.19	0.42
85:5:2651:G:N2	85:5:2796:G:C5	2.87	0.42
85:5:2858:U:C4	85:5:2859:U:O4	2.73	0.42
85:5:2953:U:H2'	85:5:2954:U:C2	2.54	0.42
85:5:2973:G:OP1	92:5:3649:OHX:N6	2.52	0.42
85:5:3061:G:C6	85:5:3062:G:N7	2.88	0.42
85:5:3266:G:C6	85:5:3267:A:N1	2.88	0.42
85:5:3363:U:H6	85:5:3363:U:O5'	2.02	0.42
85:5:2945:G:OP2	92:5:3638:OHX:N5	2.53	0.42
92:5:3481:OHX:N4	92:5:3702:OHX:N1	2.68	0.42
85:5:431:U:H3	85:5:628:A:H61	1.66	0.42
85:5:752:C:H2'	85:5:753:C:H6	1.83	0.42
85:5:815:G:N1	85:5:926:A:C2	2.88	0.42
80:6:1507:G:C6	80:6:1508:U:C4	3.08	0.42
80:6:452:A:H3'	80:6:453:U:C5	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:6:481:A:C2	80:6:508:U:O2	2.73	0.42
37:7:4:U:H6	37:7:4:U:O5'	2.02	0.42
38:8:109:A:H2'	38:8:110:C:H5'	2.01	0.42
38:8:71:A:H4'	38:8:72:A:O5'	2.19	0.42
17:C5:31:GLU:HG2	17:C5:35:LYS:HE3	7.89	0.42
18:C6:10:PHE:HA	18:C6:18:ALA:O	2.20	0.42
18:C6:30:LYS:NZ	80:6:1366:U:H5'	424.76	0.42
18:C6:48:VAL:HG23	18:C6:82:ARG:HB3	2.02	0.42
19:C7:34:LEU:HD22	19:C7:38:ILE:HD12	4.55	0.42
21:C9:49:ASP:O	21:C9:51:GLU:N	2.53	0.42
21:C9:58:ALA:HB1	21:C9:108:LEU:HD11	2.02	0.42
23:D1:62:ARG:HH22	24:D2:20:THR:HB	3.18	0.42
40:L3:226:PHE:HD2	40:L3:227:GLU:N	2.18	0.42
40:L3:282:ILE:HD13	40:L3:282:ILE:HG21	1.78	0.42
40:L3:358:TRP:CH2	40:L3:360:ASP:HA	3.44	0.42
40:L3:85:VAL:HG22	40:L3:85:VAL:O	2.18	0.42
41:L4:179:LEU:HA	41:L4:179:LEU:HD23	1.77	0.42
36:1:1388:U:O4	41:L4:186:LYS:HD2	2.20	0.42
41:L4:193:LYS:HB3	41:L4:193:LYS:HE3	2.48	0.42
41:L4:222:VAL:HA	41:L4:223:PRO:HD3	1.81	0.42
41:L4:3:ARG:NH1	41:L4:22:LEU:HD12	2.30	0.42
42:L5:111:GLN:HA	42:L5:116:ASP:CB	2.49	0.42
42:L5:99:TYR:CD2	42:L5:199:ILE:HG12	3.29	0.42
37:3:1:G:N2	42:L5:269:SER:OG	2.48	0.42
42:L5:99:TYR:CE2	42:L5:199:ILE:HD13	2.54	0.42
44:L7:176:TYR:CZ	44:L7:197:GLN:HG2	2.55	0.42
45:L8:139:VAL:HG21	45:L8:197:VAL:HG21	2.00	0.42
45:L8:94:PHE:CZ	45:L8:200:LEU:HG	3.15	0.42
46:L9:100:ASN:OD1	46:L9:102:ASN:ND2	5.65	0.42
46:L9:126:VAL:O	46:L9:126:VAL:HG12	3.01	0.42
47:M0:45:GLU:O	47:M0:141:LYS:HE3	2.20	0.42
48:M1:139:THR:HA	48:M1:146:GLY:O	2.83	0.42
48:M1:152:HIS:HD2	48:M1:153:LYS:H	4.81	0.42
49:M3:43:ALA:HB1	49:M3:137:GLN:OE1	2.20	0.42
49:M3:90:ALA:CB	49:M3:95:ILE:HD12	3.48	0.42
50:M4:44:VAL:O	50:M4:57:ALA:HA	2.83	0.42
51:M5:6:TYR:CE2	72:O6:40:VAL:HG13	3.43	0.42
52:M6:115:LYS:HG2	85:5:3178:A:C2	259.00	0.42
52:M6:22:VAL:HG22	52:M6:23:VAL:N	3.33	0.42
54:M8:124:LEU:HA	54:M8:124:LEU:HD23	1.74	0.42
58:N2:21:SER:HA	58:N2:24:GLU:OE2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:N3:82:ALA:N	59:N3:98:ASN:OD1	4.71	0.42
62:N6:37:LYS:HA	62:N6:40:ARG:HG2	6.08	0.42
62:N6:60:ARG:HD3	62:N6:60:ARG:HA	1.60	0.42
71:O5:45:LYS:C	71:O5:47:VAL:H	2.23	0.42
75:O9:3:ALA:O	75:O9:4:GLN:HB2	2.19	0.42
77:Q1:12:ARG:O	77:Q1:15:ARG:N	2.52	0.42
78:Q2:8:ARG:HD2	85:5:2713:U:O2'	225.28	0.42
39:L2:96:LEU:O	79:Q3:87:ARG:HD3	2.77	0.42
2:S0:175:TYR:CD1	2:S0:199:PRO:HA	2.55	0.42
3:S1:156:ALA:O	3:S1:161:ILE:HD11	5.19	0.42
3:S1:197:ILE:HG21	3:S1:210:ILE:HG21	3.07	0.42
4:S2:215:PHE:C	4:S2:217:ALA:N	2.96	0.42
5:S3:162:GLN:NE2	5:S3:165:ASN:HB2	2.34	0.42
5:S3:21:LEU:HD23	5:S3:21:LEU:HA	1.91	0.42
6:S4:115:THR:HG1	6:S4:118:GLU:H	1.64	0.42
8:S6:173:PRO:HB2	8:S6:174:LYS:H	1.73	0.42
8:S6:189:HIS:C	8:S6:189:HIS:ND1	3.88	0.42
8:S6:216:LEU:HD23	8:S6:216:LEU:HA	2.21	0.42
9:S7:83:LYS:HB3	9:S7:83:LYS:HE2	1.79	0.42
11:S9:142:ASN:OD1	11:S9:142:ASN:N	2.52	0.42
35:SM:101:ASP:HB3	35:SM:102:THR:H	1.62	0.42
35:SM:72:ARG:HD2	35:SM:72:ARG:HA	1.91	0.42
36:1:1105:A:H2'	36:1:1106:G:H8	1.84	0.42
36:1:1123:U:C5	36:1:1124:U:C5	3.08	0.42
36:1:1176:C:H2'	36:1:1177:G:N2	2.34	0.42
36:1:1240:A:N6	36:1:1244:A:H5''	2.28	0.42
36:1:1336:U:C2'	36:1:1337:A:H5'	2.49	0.42
36:1:1728:G:C5	66:O0:85:PHE:CZ	3.07	0.42
36:1:1878:G:C3'	36:1:1879:A:H5'	2.50	0.42
36:1:2357:A:H2'	36:1:2358:A:C8	2.55	0.42
36:1:2775:U:H2'	36:1:2776:C:H6	1.83	0.42
36:1:2927:C:H2'	36:1:2928:C:C6	2.54	0.42
36:1:2889:C:C4	36:1:2936:A:C8	3.08	0.42
36:1:2901:G:N2	36:1:3030:G:H2'	2.34	0.42
36:1:3107:U:O4	36:1:3128:G:N2	2.52	0.42
36:1:1171:G:C5	92:1:3494:OHX:N5	2.86	0.42
36:1:613:G:C4	36:1:614:C:C5	3.08	0.42
36:1:668:G:C5	36:1:795:G:C2	3.07	0.42
36:1:678:G:O6	92:1:3508:OHX:N1	2.53	0.42
36:1:813:G:N3	36:1:814:U:C6	2.88	0.42
1:2:1294:U:H1'	1:2:1298:U:O2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1486:A:N6	1:2:1487:G:C6	2.87	0.42
1:2:366:A:N1	1:2:367:A:C5	2.88	0.42
1:2:407:A:C6	1:2:408:C:N4	2.87	0.42
1:2:445:A:H1'	1:2:525:A:OP1	2.19	0.42
1:2:793:G:C4	9:S7:111:LYS:HD2	2.54	0.42
37:3:121:U:N3	42:L5:268:GLU:HB3	2.35	0.42
36:1:406:G:H1'	38:4:16:G:H22	1.83	0.42
38:4:83:C:H1'	38:4:85:G:H21	1.85	0.42
85:5:157:A:C2	85:5:158:G:H1'	2.54	0.42
85:5:1481:A:H2'	85:5:1858:A:N3	2.34	0.42
85:5:1908:A:N6	85:5:1909:A:C6	2.88	0.42
85:5:189:G:H3'	85:5:224:C:OP2	2.19	0.42
85:5:3087:A:H2'	85:5:3088:G:C8	2.54	0.42
40:L3:128:LYS:HG3	85:5:3294:A:H5'	197.17	0.42
85:5:3296:A:O5'	85:5:3296:A:H8	2.03	0.42
85:5:3328:G:OP2	92:5:3745:OHX:N2	2.52	0.42
85:5:575:G:C2	85:5:576:C:C5	3.07	0.42
85:5:57:A:H2'	85:5:58:G:O4'	2.19	0.42
85:5:590:G:C6	85:5:591:G:C6	3.07	0.42
85:5:887:G:H2'	85:5:888:A:C8	2.55	0.42
80:6:1210:C:C2	80:6:1454:G:N2	2.87	0.42
80:6:1255:G:H4'	80:6:1256:A:OP1	2.20	0.42
80:6:17:C:N3	80:6:18:C:C4	2.88	0.42
80:6:833:U:OP1	92:6:2018:OHX:N5	2.52	0.42
80:6:525:A:H2'	80:6:526:A:C8	2.54	0.42
37:7:85:G:O2'	37:7:87:G:OP1	2.32	0.42
38:8:2:A:H3'	38:8:3:A:H8	1.84	0.42
5:S3:72:LEU:HD22	12:C0:65:TYR:HD1	2.52	0.42
15:C3:128:TYR:CE1	80:6:964:U:H5''	322.40	0.42
20:C8:86:LEU:HD12	20:C8:99:HIS:HB2	2.01	0.42
21:C9:61:VAL:HG11	21:C9:105:LEU:HD21	3.13	0.42
20:C8:41:ARG:NH1	21:C9:38:LYS:HG3	2.34	0.42
21:C9:90:PRO:HG3	80:6:1467:C:O3'	370.69	0.42
23:D1:55:LEU:HD13	23:D1:65:SER:OG	2.20	0.42
24:D2:104:LEU:HD13	24:D2:104:LEU:N	2.34	0.42
1:2:763:A:H8	26:D4:8:ARG:HB3	1.84	0.42
29:D7:52:THR:O	29:D7:54:VAL:HG23	2.56	0.42
39:L2:68:LYS:HG2	39:L2:70:ARG:HE	3.95	0.42
41:L4:141:ARG:O	41:L4:143:GLU:N	3.97	0.42
41:L4:287:THR:HA	41:L4:290:ILE:HB	2.50	0.42
41:L4:92:ASN:N	41:L4:93:MET:HE2	3.73	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:L5:107:ARG:HH12	42:L5:120:LYS:HA	1.84	0.42
42:L5:278:SER:O	42:L5:281:GLU:HB2	2.20	0.42
43:L6:50:LYS:HE2	43:L6:72:ASN:O	2.19	0.42
44:L7:101:LYS:O	44:L7:101:LYS:HD3	3.49	0.42
44:L7:156:ILE:O	44:L7:157:ASN:HB2	2.19	0.42
36:1:1171:G:OP2	44:L7:218:ARG:HD2	2.19	0.42
47:M0:54:SER:HB3	47:M0:133:GLN:O	2.19	0.42
47:M0:150:GLU:CG	47:M0:154:ARG:HE	2.32	0.42
47:M0:200:LEU:HD12	47:M0:213:PHE:HD1	3.12	0.42
47:M0:214:PRO:HD2	47:M0:215:GLU:CD	7.39	0.42
47:M0:47:PRO:HB2	47:M0:178:ARG:NH2	2.34	0.42
47:M0:23:ASN:ND2	47:M0:96:VAL:HG21	2.35	0.42
48:M1:116:TYR:CE1	48:M1:118:PRO:HB3	3.12	0.42
49:M3:14:PHE:CD1	85:5:798:G:N2	135.61	0.42
49:M3:32:LYS:HA	49:M3:35:ARG:NH2	2.57	0.42
49:M3:46:ILE:HG12	49:M3:49:ARG:HB2	5.88	0.42
49:M3:54:LEU:HA	49:M3:54:LEU:HD23	1.78	0.42
51:M5:106:VAL:HG22	51:M5:107:GLY:N	2.34	0.42
51:M5:122:ASN:O	51:M5:129:TYR:N	2.77	0.42
52:M6:118:VAL:HG23	52:M6:119:VAL:N	2.70	0.42
53:M7:26:PHE:O	53:M7:27:LYS:C	2.67	0.42
53:M7:2:ALA:O	53:M7:3:ARG:HB2	2.19	0.42
54:M8:64:VAL:HG22	54:M8:96:PHE:CE2	2.55	0.42
56:N0:3:HIS:ND1	56:N0:4:PHE:N	2.68	0.42
57:N1:147:VAL:HA	57:N1:148:PRO:HD3	1.83	0.42
56:N0:89:ASN:HD21	57:N1:155:PRO:CA	2.33	0.42
59:N3:135:VAL:HG21	60:N4:26:SER:HB3	2.02	0.42
59:N3:87:ARG:NE	59:N3:121:GLU:OE2	2.49	0.42
61:N5:108:LEU:HD23	61:N5:108:LEU:HA	2.24	0.42
63:N7:54:THR:OG1	63:N7:55:LYS:N	2.67	0.42
64:N8:47:LYS:CG	64:N8:48:TYR:N	2.97	0.42
64:N8:47:LYS:HG2	64:N8:48:TYR:N	2.29	0.42
73:O7:21:ARG:NH2	73:O7:41:ALA:O	2.51	0.42
73:O7:17:THR:CG2	75:O9:51:ILE:HD13	2.50	0.42
78:Q2:12:CYS:SG	78:Q2:17:CYS:CB	3.08	0.42
78:Q2:40:LYS:O	78:Q2:44:ASP:HB2	2.57	0.42
2:S0:63:ILE:HG22	2:S0:120:LEU:HD22	2.01	0.42
3:S1:31:ASP:O	3:S1:96:LEU:HD23	2.50	0.42
5:S3:202:LEU:C	5:S3:204:ASP:H	2.62	0.42
5:S3:60:GLY:O	5:S3:62:ASN:N	3.37	0.42
6:S4:212:ASP:OD1	6:S4:213:SER:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S4:43:PRO:HA	6:S4:82:TYR:O	2.40	0.42
7:S5:147:THR:HB	7:S5:160:VAL:HG21	2.93	0.42
8:S6:16:PHE:CE2	8:S6:45:PHE:HE1	2.37	0.42
9:S7:63:PRO:O	9:S7:64:VAL:CB	2.68	0.42
14:C2:56:GLU:HG2	35:SM:171:UNK:CB	5.34	0.42
36:1:166:C:C2	36:1:167:U:C5	3.07	0.42
36:1:168:U:H2'	36:1:169:U:C6	2.54	0.42
36:1:2611:U:H2'	36:1:2612:U:H6	1.83	0.42
36:1:263:C:H2'	36:1:264:G:O4'	2.20	0.42
36:1:29:C:H4'	36:1:62:A:H4'	2.02	0.42
36:1:3069:G:C2	36:1:3070:A:C8	3.08	0.42
36:1:3003:G:N3	36:1:3146:G:C2	2.87	0.42
36:1:3232:G:C6	36:1:3233:C:C4	3.07	0.42
36:1:3321:C:H2'	36:1:3322:A:H8	1.85	0.42
36:1:348:A:O4'	36:1:352:A:C2	2.72	0.42
36:1:2201:G:OP1	92:1:3652:OHX:N1	2.53	0.42
36:1:417:A:H2'	36:1:418:A:C8	2.55	0.42
1:2:1155:G:C6	1:2:1156:C:C4	3.08	0.42
1:2:1336:U:H2'	1:2:1337:G:C8	2.55	0.42
1:2:189:C:C2'	1:2:190:C:H5'	2.49	0.42
1:2:357:G:N7	92:2:1938:OHX:N3	2.67	0.42
1:2:453:U:H6	1:2:453:U:O5'	2.02	0.42
1:2:898:A:H5''	1:2:899:U:H5	1.82	0.42
37:3:46:A:P	42:L5:158:ARG:HH11	2.41	0.42
37:3:62:U:O3'	42:L5:285:ARG:NH1	2.53	0.42
38:4:12:A:C2	38:4:13:A:C8	3.08	0.42
47:M0:194:GLY:N	85:5:1010:G:H21	337.53	0.42
85:5:1065:A:O5'	85:5:1065:A:H8	2.03	0.42
85:5:1204:A:H2	85:5:2834:G:N3	2.18	0.42
85:5:1254:C:H2'	85:5:1255:C:H6	1.85	0.42
85:5:1475:A:C6	85:5:1476:G:C5	3.08	0.42
85:5:1614:C:C2	85:5:1615:C:C5	3.08	0.42
85:5:1752:A:H2'	85:5:1753:G:C8	2.55	0.42
85:5:1880:U:C4	85:5:1881:A:N7	2.88	0.42
85:5:2113:A:C8	85:5:2114:C:N3	2.88	0.42
85:5:2691:A:H2'	85:5:2692:A:C8	2.54	0.42
57:N1:17:ARG:HG3	85:5:2700:G:OP1	266.93	0.42
47:M0:158:LYS:HB3	85:5:2853:A:O2'	302.44	0.42
85:5:3017:A:H2'	85:5:3018:C:C6	2.54	0.42
85:5:3207:U:HO2'	85:5:3208:G:H3'	1.84	0.42
85:5:3224:G:C2	85:5:3225:C:C6	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:509:U:O4	92:5:3524:OHX:N4	2.53	0.42
85:5:982:C:N3	85:5:1102:A:C2	2.88	0.42
80:6:1107:G:H3'	80:6:1108:G:H21	1.85	0.42
80:6:1114:G:O2'	80:6:1115:U:OP2	2.31	0.42
4:S2:87:GLN:HG3	80:6:11:A:H5'	381.12	0.42
80:6:1225:U:O2	80:6:1230:A:O2'	2.37	0.42
80:6:1274:C:O2	80:6:1274:C:C2'	2.68	0.42
80:6:1593:A:H2'	80:6:1594:G:H8	1.83	0.42
80:6:1670:G:N2	80:6:1732:A:N6	2.67	0.42
80:6:1716:C:O2'	80:6:1717:G:H5''	2.19	0.42
80:6:422:G:OP1	92:6:1911:OHX:N1	2.53	0.42
80:6:215:A:H5''	80:6:216:U:OP2	2.19	0.42
80:6:213:A:C2	80:6:253:A:N3	2.88	0.42
80:6:142:G:C2	80:6:266:A:C4	3.08	0.42
80:6:310:C:C4	80:6:311:U:C5	3.08	0.42
80:6:43:A:C2	80:6:378:A:C6	3.08	0.42
80:6:471:A:C2'	80:6:472:U:H5'	2.49	0.42
37:7:14:U:C4	37:7:67:G:N2	2.87	0.42
42:L5:57:ASN:HD22	37:7:27:A:P	301.05	0.42
12:C0:48:SER:HA	80:6:1219:A:O2'	434.60	0.42
14:C2:63:VAL:HG11	14:C2:66:VAL:HG13	3.54	0.42
15:C3:75:LEU:O	15:C3:80:LEU:N	2.51	0.42
19:C7:2:GLY:N	80:6:1312:A:N7	393.55	0.42
19:C7:32:LYS:HD2	19:C7:47:ARG:HH11	1.85	0.42
21:C9:16:ASN:OD1	21:C9:56:LYS:NZ	2.57	0.42
21:C9:57:ARG:HH12	21:C9:80:TYR:HB3	4.72	0.42
24:D2:89:TRP:O	24:D2:93:LEU:CD2	2.88	0.42
25:D3:132:LEU:HA	25:D3:132:LEU:HD13	1.69	0.42
26:D4:57:VAL:HB	26:D4:60:PHE:CE2	4.98	0.42
26:D4:88:THR:HG22	26:D4:88:THR:H	1.63	0.42
27:D5:66:VAL:HA	27:D5:71:ILE:HG22	6.44	0.42
7:S5:192:GLU:HG3	27:D5:98:GLN:HE22	3.81	0.42
28:D6:21:VAL:HG22	28:D6:32:LYS:HA	2.86	0.42
28:D6:28:LYS:HG2	28:D6:29:SER:O	2.20	0.42
33:E1:106:TYR:CE2	33:E1:116:LYS:HG2	2.53	0.42
39:L2:196:TRP:CZ3	39:L2:197:PRO:HG3	2.55	0.42
40:L3:92:TYR:HE1	40:L3:159:ARG:HD2	2.07	0.42
40:L3:347:SER:HB3	40:L3:348:ARG:H	1.60	0.42
40:L3:60:LEU:HD12	40:L3:352:GLU:OE1	2.20	0.42
41:L4:11:LEU:CD2	41:L4:11:LEU:N	3.01	0.42
41:L4:174:ALA:O	41:L4:178:LEU:HD12	3.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:281:ILE:HD13	41:L4:281:ILE:HG21	1.66	0.42
44:L7:124:LEU:HD23	44:L7:124:LEU:HA	2.09	0.42
45:L8:128:LYS:HG3	85:5:120:G:C6	98.93	0.42
45:L8:56:VAL:O	45:L8:59:GLN:HG2	2.75	0.42
45:L8:73:PRO:O	45:L8:77:GLN:N	3.74	0.42
46:L9:27:VAL:HG12	46:L9:82:VAL:HG11	2.02	0.42
47:M0:142:ASP:N	47:M0:142:ASP:OD1	2.52	0.42
47:M0:168:SER:C	47:M0:170:LYS:H	2.23	0.42
47:M0:194:GLY:H	85:5:1010:G:H21	337.14	0.42
48:M1:101:ASN:CG	48:M1:130:VAL:HG13	2.40	0.42
48:M1:136:ALA:O	48:M1:138:VAL:N	3.14	0.42
51:M5:121:VAL:HG11	51:M5:131:GLU:HG3	2.80	0.42
51:M5:121:VAL:HG22	51:M5:129:TYR:O	2.20	0.42
51:M5:150:TRP:C	51:M5:152:CYS:N	2.73	0.42
51:M5:193:ARG:C	51:M5:195:ASN:H	2.56	0.42
53:M7:105:LYS:HB3	53:M7:107:LEU:CD2	3.99	0.42
53:M7:169:THR:O	53:M7:173:ARG:HG2	2.19	0.42
54:M8:147:ARG:HH11	54:M8:147:ARG:HD3	1.93	0.42
55:M9:103:ARG:HD2	55:M9:124:TYR:CE1	2.55	0.42
55:M9:32:ILE:H	55:M9:32:ILE:HG13	2.29	0.42
56:N0:78:TRP:CE2	56:N0:91:TYR:CD2	3.08	0.42
57:N1:129:LYS:HB2	85:5:1098:A:O5'	252.61	0.42
57:N1:154:VAL:HA	57:N1:155:PRO:HD3	1.89	0.42
59:N3:26:ALA:O	59:N3:115:THR:HG22	2.20	0.42
59:N3:35:TYR:CB	59:N3:63:LYS:HD3	2.49	0.42
61:N5:103:TYR:O	61:N5:104:GLU:HB2	2.52	0.42
61:N5:49:LYS:O	61:N5:51:VAL:N	2.52	0.42
64:N8:28:HIS:HE1	64:N8:32:ARG:NH2	2.17	0.42
36:1:2775:U:H1'	64:N8:58:MET:SD	2.60	0.42
64:N8:58:MET:SD	85:5:2786:G:N2	156.09	0.42
64:N8:73:LEU:O	64:N8:113:LEU:N	2.83	0.42
66:O0:41:LEU:HD22	66:O0:41:LEU:HA	1.88	0.42
66:O0:92:ILE:HG21	66:O0:100:ILE:HD11	2.80	0.42
67:O1:19:ARG:HD3	67:O1:35:GLU:CG	2.50	0.42
68:O2:120:THR:C	68:O2:122:PRO:HD3	2.65	0.42
70:O4:8:ARG:HH21	70:O4:31:ARG:HG2	1.85	0.42
71:O5:73:LYS:HD2	71:O5:73:LYS:HA	5.12	0.42
72:O6:92:ASN:O	72:O6:95:ALA:HB3	3.75	0.42
36:1:1613:A:P	74:O8:46:ARG:HH22	2.43	0.42
76:Q0:93:LYS:HB3	76:Q0:103:LEU:O	2.20	0.42
76:Q0:115:CYS:SG	76:Q0:118:THR:HG22	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S1:147:ALA:HB3	3:S1:148:ASN:OD1	6.93	0.42
3:S1:61:LEU:CD2	3:S1:62:LYS:H	2.33	0.42
4:S2:211:LEU:O	4:S2:215:PHE:N	2.70	0.42
4:S2:217:ALA:O	4:S2:220:ASN:HB2	2.79	0.42
5:S3:111:ASN:HB3	5:S3:113:LEU:CD2	6.06	0.42
6:S4:103:TYR:CE1	6:S4:189:LEU:HD11	2.55	0.42
6:S4:138:TYR:HA	6:S4:148:ARG:HA	2.83	0.42
7:S5:93:LEU:HD23	7:S5:93:LEU:HA	1.52	0.42
8:S6:176:GLN:HG3	8:S6:177:ARG:N	2.60	0.42
11:S9:109:LEU:O	11:S9:109:LEU:HD22	2.20	0.42
35:SM:89:ARG:HA	35:SM:89:ARG:HD3	1.78	0.42
36:1:1278:A:O2'	36:1:1279:C:H6	2.03	0.42
36:1:1643:A:O2'	36:1:1644:C:O4'	2.25	0.42
36:1:1757:A:C2	36:1:1769:G:C2	3.08	0.42
36:1:2124:G:C2	36:1:2330:C:C2	3.08	0.42
36:1:2276:G:C6	36:1:2277:C:C4	3.08	0.42
36:1:250:U:C5	36:1:251:G:N7	2.88	0.42
36:1:2603:G:H2'	36:1:2604:U:O4'	2.19	0.42
36:1:2630:C:H5'	36:1:2758:A:H4'	2.01	0.42
36:1:3001:C:OP1	40:L3:120:LYS:NZ	2.51	0.42
36:1:317:A:N1	36:1:318:A:C2	2.88	0.42
36:1:3392:U:H2'	36:1:3393:U:C6	2.54	0.42
36:1:637:C:H2'	36:1:637:C:H6	1.56	0.42
36:1:63:A:C6	36:1:64:G:C6	3.07	0.42
1:2:1214:U:C4	1:2:1238:G:N2	2.88	0.42
1:2:1470:A:C4	1:2:1471:G:C8	3.07	0.42
1:2:1544:U:C2	1:2:1545:G:C8	3.08	0.42
1:2:1586:U:H6	1:2:1586:U:O5'	2.03	0.42
1:2:545:A:H2'	32:E0:31:LYS:HD2	2.01	0.42
1:2:548:G:H2'	1:2:549:G:O4'	2.19	0.42
1:2:767:C:H2'	1:2:768:U:O4'	2.19	0.42
37:3:58:C:OP2	92:3:206:OHX:N6	2.52	0.42
85:5:1093:A:N3	85:5:1096:U:N3	2.67	0.42
85:5:1514:G:C6	85:5:1841:A:C4	3.07	0.42
85:5:1646:G:O2'	85:5:1647:A:OP2	2.33	0.42
85:5:1490:A:N6	85:5:1839:A:H61	2.15	0.42
85:5:185:C:H2'	85:5:186:U:C6	2.55	0.42
85:5:2235:C:H6	85:5:2235:C:O5'	2.03	0.42
85:5:2278:C:C2	85:5:2307:G:N2	2.88	0.42
85:5:2428:U:O5'	85:5:2428:U:H6	2.03	0.42
85:5:2555:G:H5'	85:5:2556:C:OP2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:2576:G:O2'	85:5:2577:C:H5'	2.19	0.42
57:N1:8:ARG:HB2	85:5:2757:U:O2'	240.86	0.42
85:5:2801:A:O2'	85:5:2802:A:H2'	2.19	0.42
85:5:2884:C:C2	85:5:2939:G:C2	3.07	0.42
85:5:3057:U:H5'	85:5:3086:A:H61	1.85	0.42
85:5:412:G:C2	85:5:413:U:C2	3.08	0.42
85:5:645:A:C5	85:5:649:A:N7	2.88	0.42
85:5:706:A:C5	85:5:707:U:C5	3.08	0.42
80:6:1674:C:C4	80:6:1675:C:N4	2.87	0.42
80:6:1681:A:N3	80:6:1681:A:O4'	2.52	0.42
80:6:1151:A:O2'	80:6:1766:A:N7	2.32	0.42
80:6:428:A:N3	80:6:440:U:O2'	2.43	0.42
80:6:69:G:H1	80:6:82:U:H3	1.67	0.42
80:6:794:U:H3'	80:6:795:U:H5'	2.01	0.42
37:7:1:G:C2	37:7:2:G:N7	2.88	0.42
18:C6:137:ARG:NE	18:C6:137:ARG:HA	2.34	0.42
18:C6:98:ASP:CG	18:C6:99:GLU:N	3.24	0.42
20:C8:32:LEU:HB2	20:C8:43:SER:OG	2.19	0.42
21:C9:33:TYR:OH	21:C9:103:LYS:HD2	2.35	0.42
24:D2:5:SER:O	24:D2:6:VAL:HB	4.59	0.42
1:2:609:U:C4	25:D3:26:GLU:HG3	2.55	0.42
26:D4:40:LEU:HA	26:D4:40:LEU:HD23	1.78	0.42
29:D7:44:THR:HG22	29:D7:45:THR:H	4.59	0.42
39:L2:140:ASN:OD1	39:L2:142:ASP:O	2.38	0.42
39:L2:143:GLU:O	39:L2:145:LYS:HB2	3.50	0.42
39:L2:175:VAL:H	39:L2:175:VAL:HG22	1.86	0.42
40:L3:248:LYS:HE3	85:5:2393:G:OP2	204.77	0.42
40:L3:79:VAL:O	40:L3:321:PHE:HB2	2.20	0.42
41:L4:283:THR:HB	41:L4:289:ILE:HD11	2.02	0.42
42:L5:99:TYR:CE1	42:L5:103:LEU:HD22	2.52	0.42
42:L5:104:LEU:HD11	42:L5:108:ARG:HH21	1.85	0.42
42:L5:122:VAL:O	42:L5:248:ARG:NH2	2.52	0.42
42:L5:211:LEU:HD22	42:L5:215:ASP:HB3	2.91	0.42
42:L5:264:GLN:O	42:L5:265:TYR:C	2.56	0.42
42:L5:266:ALA:HA	37:7:1:G:C4	313.38	0.42
43:L6:154:LEU:HD23	43:L6:154:LEU:HA	1.69	0.42
43:L6:49:GLY:O	43:L6:163:PHE:N	2.73	0.42
45:L8:159:PRO:C	45:L8:161:GLU:N	2.73	0.42
45:L8:161:GLU:OE1	51:M5:26:ARG:NH1	2.52	0.42
46:L9:20:ILE:CD1	46:L9:25:VAL:HG22	4.39	0.42
47:M0:176:LEU:HD11	47:M0:199:PHE:CE1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:M0:182:LEU:O	47:M0:183:LYS:C	2.58	0.42
47:M0:196:PHE:CG	47:M0:197:VAL:N	3.01	0.42
48:M1:160:VAL:HG12	48:M1:161:SER:N	3.86	0.42
48:M1:40:LEU:HD22	48:M1:40:LEU:HA	1.66	0.42
49:M3:5:LYS:HB2	49:M3:7:LEU:HG	2.02	0.42
50:M4:77:ARG:O	50:M4:81:VAL:HG23	2.20	0.42
51:M5:101:THR:O	51:M5:105:ARG:HG3	2.49	0.42
51:M5:30:TYR:O	51:M5:32:GLN:N	2.53	0.42
53:M7:19:GLY:O	53:M7:146:ILE:N	2.53	0.42
60:N4:39:LEU:HD12	60:N4:44:LYS:HG3	2.39	0.42
60:N4:64:THR:O	60:N4:67:VAL:N	3.79	0.42
63:N7:80:LEU:O	63:N7:82:PRO:HD3	2.90	0.42
66:O0:24:THR:HG23	66:O0:30:THR:HG22	2.02	0.42
66:O0:41:LEU:HD22	66:O0:42:ILE:N	3.43	0.42
67:O1:82:GLU:O	67:O1:83:GLU:C	2.77	0.42
68:O2:17:PHE:O	68:O2:32:TRP:HE3	3.49	0.42
69:O3:106:ASN:ND2	69:O3:106:ASN:O	2.52	0.42
71:O5:119:LYS:HA	71:O5:119:LYS:HD2	2.64	0.42
51:M5:143:ARG:NE	71:O5:92:LEU:HD23	2.34	0.42
76:Q0:77:ILE:O	76:Q0:78:ILE:HG13	2.20	0.42
78:Q2:16:THR:O	78:Q2:18:ARG:N	3.97	0.42
78:Q2:58:PHE:CD1	78:Q2:59:HIS:N	2.88	0.42
2:S0:107:PHE:O	2:S0:115:PHE:HE2	3.53	0.42
2:S0:119:ARG:HE	4:S2:240:LEU:CD2	2.31	0.42
3:S1:67:GLU:CD	3:S1:83:LYS:HE2	4.69	0.42
3:S1:70:LEU:O	3:S1:73:LEU:N	3.24	0.42
5:S3:95:GLY:O	5:S3:126:VAL:HG13	2.20	0.42
6:S4:103:TYR:CZ	6:S4:109:PHE:CE1	4.30	0.42
6:S4:36:HIS:H	6:S4:36:HIS:CD2	3.48	0.42
7:S5:137:ILE:HD13	7:S5:137:ILE:HG21	3.83	0.42
10:S8:38:ILE:HA	10:S8:60:ILE:O	2.36	0.42
10:S8:3:ILE:O	10:S8:30:GLY:N	2.52	0.42
34:SR:239:GLU:HB3	34:SR:257:ALA:HB2	2.67	0.42
36:1:1019:G:H2'	36:1:1020:G:O4'	2.19	0.42
36:1:1047:A:H2'	36:1:1048:A:C8	2.55	0.42
36:1:115:A:O5'	36:1:115:A:H8	2.03	0.42
36:1:1212:A:N3	36:1:1213:G:C8	2.88	0.42
36:1:1461:A:O2'	36:1:1462:A:H5'	2.20	0.42
36:1:1569:U:H5''	36:1:1570:U:C6	2.55	0.42
36:1:1684:U:H2'	36:1:1685:C:H6	1.85	0.42
36:1:1713:G:O2'	36:1:1714:A:OP2	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1717:U:H2'	36:1:1718:G:C8	2.54	0.42
36:1:1878:G:OP1	92:1:3464:OHX:N4	2.53	0.42
36:1:2347:U:H3'	36:1:2348:A:C8	2.55	0.42
36:1:2419:A:N1	36:1:2420:C:N3	2.67	0.42
36:1:2674:A:C5	36:1:2675:C:C4	3.08	0.42
36:1:2775:U:C2	36:1:2786:G:C2	3.08	0.42
36:1:3279:A:N7	36:1:3280:U:C4	2.88	0.42
36:1:739:G:N3	36:1:740:G:C8	2.88	0.42
36:1:82:C:O2	36:1:82:C:H2'	2.18	0.42
15:C3:140:LYS:HD3	36:1:847:A:OP1	2.20	0.42
1:2:1027:U:H2'	1:2:1028:C:H6	1.85	0.42
1:2:1179:A:H4'	1:2:1180:C:H5''	2.01	0.42
1:2:1497:U:H5	5:S3:4:LEU:O	2.03	0.42
1:2:53:G:H2'	1:2:54:C:O4'	2.19	0.42
1:2:555:A:H4'	1:2:556:A:OP1	2.19	0.42
1:2:831:C:H2'	1:2:832:C:C6	2.52	0.42
1:2:921:G:C6	1:2:925:G:C6	3.07	0.42
37:3:39:C:N3	48:M1:70:THR:HG23	2.35	0.42
85:5:1197:A:C8	37:7:86:U:C2	3.07	0.42
85:5:1290:A:C2	85:5:1291:A:C5	3.07	0.42
85:5:1627:U:H2'	85:5:1814:A:N6	2.34	0.42
85:5:1867:A:C6	85:5:1868:G:C5	3.08	0.42
85:5:2746:A:H2'	85:5:2747:A:O4'	2.19	0.42
85:5:2795:U:O2	85:5:2800:G:O2'	2.21	0.42
85:5:961:C:O2	92:5:3681:OHX:N4	2.52	0.42
85:5:34:A:C2	85:5:51:A:C2	3.08	0.42
85:5:525:C:N4	85:5:567:G:H1	2.17	0.42
80:6:1140:G:C2	80:6:1141:G:C8	3.07	0.42
80:6:1354:G:C5	80:6:1372:U:C4	3.07	0.42
80:6:1473:U:O2	80:6:1473:U:H2'	2.20	0.42
80:6:1147:A:O4'	80:6:1635:A:C2	2.73	0.42
80:6:1673:G:H2'	80:6:1674:C:C6	2.54	0.42
80:6:246:G:C2	80:6:247:A:C4	3.08	0.42
80:6:333:A:C6	80:6:334:G:N1	2.87	0.42
80:6:426:G:N2	80:6:427:C:O2	2.53	0.42
80:6:957:G:C6	80:6:958:U:N3	2.88	0.42
12:C0:32:HIS:CD2	12:C0:33:GLU:HG2	7.30	0.42
15:C3:65:VAL:C	15:C3:67:THR:H	3.30	0.42
22:D0:25:THR:HB	22:D0:115:GLU:CG	4.70	0.42
22:D0:61:LYS:HG3	22:D0:86:ILE:HB	2.02	0.42
23:D1:2:GLU:HA	23:D1:8:LEU:HA	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:D2:126:LEU:HD23	24:D2:126:LEU:HA	2.05	0.42
25:D3:144:ARG:H	25:D3:144:ARG:HG3	1.62	0.42
28:D6:41:ILE:HG22	28:D6:68:TYR:HB3	2.02	0.42
28:D6:42:ARG:HB3	28:D6:43:ASN:H	2.15	0.42
29:D7:50:ALA:HB1	29:D7:52:THR:O	2.20	0.42
31:D9:45:GLU:OE1	80:6:1433:G:N2	410.49	0.42
39:L2:128:ARG:HA	39:L2:169:ILE:HD11	2.02	0.42
39:L2:190:ARG:HD3	39:L2:190:ARG:HH11	4.32	0.42
40:L3:108:GLU:HB2	40:L3:137:TYR:CZ	2.54	0.42
40:L3:159:ARG:HG2	40:L3:182:GLN:HA	2.02	0.42
40:L3:192:VAL:O	40:L3:195:ALA:HB3	2.44	0.42
40:L3:281:LYS:CE	40:L3:350:ALA:HA	2.50	0.42
41:L4:255:PHE:O	41:L4:258:LEU:HB2	2.34	0.42
41:L4:257:LYS:O	41:L4:258:LEU:C	2.88	0.42
41:L4:258:LEU:HD12	41:L4:258:LEU:HA	2.06	0.42
43:L6:157:GLN:O	43:L6:158:TYR:C	2.58	0.42
44:L7:118:LYS:O	44:L7:118:LYS:HG2	3.71	0.42
44:L7:205:PHE:N	44:L7:205:PHE:HD2	2.83	0.42
45:L8:186:LEU:HD22	45:L8:198:ALA:HB3	2.02	0.42
46:L9:109:ALA:HB1	46:L9:111:PHE:HE2	1.83	0.42
46:L9:164:ILE:O	46:L9:164:ILE:HD12	2.19	0.42
36:1:3112:G:O2'	46:L9:70:THR:HB	2.20	0.42
47:M0:144:ASN:O	47:M0:145:LYS:C	2.58	0.42
47:M0:144:ASN:OD1	47:M0:147:VAL:HG21	2.53	0.42
47:M0:46:PHE:CB	47:M0:139:ARG:HG3	2.49	0.42
47:M0:68:ALA:O	47:M0:71:CYS:HB3	2.20	0.42
48:M1:137:ARG:O	48:M1:138:VAL:C	2.79	0.42
49:M3:118:GLU:O	49:M3:122:LYS:HG2	2.20	0.42
49:M3:153:ASP:HB2	64:N8:126:LYS:HZ1	3.69	0.42
36:1:44:U:OP1	51:M5:84:PRO:HB2	2.19	0.42
52:M6:178:VAL:O	52:M6:182:ASN:N	2.37	0.42
53:M7:136:ILE:HD12	53:M7:136:ILE:HG23	1.81	0.42
36:1:3217:C:N4	53:M7:182:ILE:HG23	2.35	0.42
36:1:1602:A:C5'	55:M9:38:ARG:HG3	2.50	0.42
64:N8:103:ASP:HB3	64:N8:106:ALA:HB3	2.35	0.42
36:1:2552:C:H2'	66:O0:50:VAL:HG11	2.01	0.42
68:O2:60:ASN:HB3	68:O2:63:THR:OG1	2.19	0.42
68:O2:83:GLU:O	68:O2:86:THR:HB	2.54	0.42
68:O2:8:LYS:HB2	68:O2:8:LYS:HE3	1.68	0.42
69:O3:26:ASN:HA	69:O3:88:ASN:OD1	2.81	0.42
36:1:3173:G:C2	69:O3:96:ALA:HB2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1739:U:O2'	70:O4:56:THR:HG21	2.20	0.42
71:O5:101:THR:O	71:O5:102:GLU:C	2.56	0.42
73:O7:5:THR:N	73:O7:6:PRO:HD2	2.34	0.42
78:Q2:54:THR:OG1	78:Q2:55:LYS:N	3.66	0.42
2:S0:177:LEU:HA	2:S0:177:LEU:HD23	1.93	0.42
3:S1:209:ASN:O	3:S1:210:ILE:HB	2.20	0.42
5:S3:162:GLN:O	5:S3:164:VAL:N	2.52	0.42
5:S3:99:VAL:HG13	5:S3:173:ARG:HH22	2.44	0.42
5:S3:9:ARG:NH2	80:6:1489:U:OP1	429.46	0.42
6:S4:211:LYS:HB2	6:S4:217:THR:HG22	2.02	0.42
6:S4:252:ARG:CZ	6:S4:252:ARG:HB3	3.83	0.42
7:S5:112:ARG:HA	7:S5:112:ARG:HD2	4.02	0.42
7:S5:43:PHE:CZ	7:S5:90:ILE:HG21	2.95	0.42
8:S6:88:ARG:CG	8:S6:91:GLU:HB2	4.07	0.42
9:S7:13:PRO:HA	9:S7:14:THR:HA	2.05	0.42
11:S9:24:LEU:HD23	11:S9:39:LYS:HZ1	1.84	0.42
35:SM:39:PRO:HD3	48:M1:52:TYR:CE1	2.74	0.42
34:SR:245:PHE:CE1	34:SR:252:LEU:HD22	4.40	0.42
34:SR:248:ASN:ND2	34:SR:298:GLY:HA3	2.47	0.42
36:1:1638:A:N3	36:1:1709:C:H1'	2.35	0.42
36:1:1904:C:C2'	36:1:1905:G:H5'	2.49	0.42
36:1:206:G:C6	36:1:207:U:C4	3.08	0.42
36:1:2122:G:H2'	36:1:2123:G:O4'	2.20	0.42
36:1:2691:A:H2'	36:1:2692:A:C8	2.55	0.42
36:1:3328:G:H2'	36:1:3328:G:N3	2.35	0.42
36:1:583:G:C6	36:1:584:G:N7	2.87	0.42
36:1:734:C:OP1	36:1:734:C:H6	2.03	0.42
36:1:989:A:O2'	57:N1:104:GLU:HB3	2.20	0.42
1:2:1313:G:H2'	1:2:1314:A:O4'	2.20	0.42
1:2:1533:A:OP2	17:C5:42:ARG:NH2	2.53	0.42
1:2:1739[A]:A:H2'	1:2:1740:G:H8	1.85	0.42
1:2:287:G:O2'	1:2:288:A:P	2.78	0.42
1:2:40:A:C2	1:2:469:C:C6	3.08	0.42
1:2:574:G:C6	1:2:575:C:C4	3.08	0.42
1:2:776:A:H5''	1:2:777:U:C5	2.55	0.42
1:2:77:U:O5'	1:2:77:U:H6	2.03	0.42
1:2:875:A:H2'	1:2:876:U:O4'	2.19	0.42
37:3:111:U:O2'	92:3:207:OHX:N1	2.53	0.42
92:1:3590:OHX:N1	92:3:204:OHX:N2	2.67	0.42
38:4:150:G:N7	92:4:208:OHX:N4	2.68	0.42
85:5:1018:G:H2'	85:5:1019:G:O4'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:989:A:C2	85:5:1061:A:C2	3.08	0.42
85:5:982:C:N4	85:5:1101:G:H1	2.18	0.42
85:5:110:G:C6	85:5:111:C:C2	3.08	0.42
85:5:1517:G:H2'	85:5:1518:U:C6	2.53	0.42
85:5:1773:C:N4	85:5:1774:C:N4	2.68	0.42
85:5:1664:G:N2	85:5:1786:G:C4	2.88	0.42
85:5:187:A:C6	85:5:211:A:N3	2.88	0.42
85:5:2213:A:H1'	85:5:2601:A:O2'	2.20	0.42
85:5:2594:C:H2'	85:5:2595:A:O4'	2.20	0.42
85:5:2602:G:C6	85:5:2603:G:N7	2.88	0.42
85:5:2850:G:HO2'	85:5:2851:A:H8	1.64	0.42
85:5:2867:C:C2'	85:5:2867:C:O2	2.64	0.42
85:5:3199:G:N2	85:5:3200:G:C4	2.87	0.42
85:5:3362:A:N1	85:5:3363:U:C2	2.88	0.42
85:5:3362:A:C2	85:5:3363:U:C4	3.08	0.42
85:5:3383:G:C4	85:5:3384:U:C5	3.08	0.42
49:M3:4:SER:HB3	85:5:965:A:H5''	174.58	0.42
80:6:1077:C:C4	80:6:1078:C:C5	3.08	0.42
80:6:1440:C:C4	80:6:1441:C:C4	3.08	0.42
80:6:1673:G:C5	80:6:1674:C:C5	3.07	0.42
92:6:1970:OHX:N5	92:6:2031:OHX:N1	2.68	0.42
80:6:478:A:C2	80:6:511:A:C2	3.07	0.42
80:6:648:G:C2	80:6:687:G:C2	3.08	0.42
80:6:929:A:N6	80:6:930:A:N1	2.68	0.42
80:6:957:G:H2'	80:6:958:U:O4'	2.20	0.42
80:6:980:G:OP2	80:6:1014:G:O2'	2.37	0.42
38:8:132:G:N7	92:8:208:OHX:N2	2.68	0.42
12:C0:54:TYR:HD2	12:C0:72:GLY:HA2	4.47	0.42
17:C5:108:ARG:HG3	17:C5:108:ARG:HH11	1.85	0.42
18:C6:73:GLY:H	18:C6:76:SER:HB3	1.85	0.42
20:C8:11:PHE:CZ	20:C8:59:GLY:HA3	3.96	0.42
22:D0:41:ILE:HD11	22:D0:107:THR:HG21	2.01	0.42
23:D1:55:LEU:HA	23:D1:55:LEU:HD23	2.33	0.42
24:D2:37:PHE:CE1	24:D2:103:ILE:HG21	4.04	0.42
24:D2:106:THR:HG21	24:D2:111:MET:HE2	2.02	0.42
26:D4:60:PHE:CE1	26:D4:71:GLY:HA3	2.55	0.42
39:L2:179:LEU:O	39:L2:181:LYS:N	2.50	0.42
39:L2:238:ILE:HG23	39:L2:238:ILE:HD12	3.86	0.42
39:L2:80:GLU:OE1	79:Q3:76:ALA:HB3	2.20	0.42
40:L3:185:GLY:H	40:L3:191:LYS:HZ3	1.67	0.42
40:L3:2:SER:O	85:5:2939:G:OP2	245.74	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:41:VAL:H	40:L3:41:VAL:HG13	1.60	0.42
40:L3:61:ASP:O	40:L3:63:PRO:HD3	2.19	0.42
40:L3:81:THR:OG1	40:L3:81:THR:O	3.97	0.42
42:L5:166:ALA:O	42:L5:171:LEU:HB2	2.20	0.42
43:L6:10:TYR:CD1	68:O2:88:HIS:CE1	3.08	0.42
43:L6:8:LYS:HD3	43:L6:8:LYS:O	4.47	0.42
44:L7:152:GLY:C	44:L7:153:PHE:HD2	2.31	0.42
45:L8:73:PRO:HD3	45:L8:233:TRP:NE1	2.35	0.42
47:M0:36:LEU:CD2	47:M0:73:ASN:ND2	2.82	0.42
47:M0:89:VAL:HG22	47:M0:136:PHE:CE1	3.17	0.42
49:M3:18:TRP:C	49:M3:20:GLU:H	2.23	0.42
51:M5:191:TRP:O	51:M5:194:GLN:N	2.53	0.42
52:M6:164:SER:OG	52:M6:164:SER:O	2.34	0.42
52:M6:67:THR:HG21	92:M6:201:OHX:N2	2.35	0.42
52:M6:12:LYS:CG	52:M6:40:GLU:HB3	3.27	0.42
53:M7:29:THR:HG22	53:M7:87:SER:HG	1.77	0.42
53:M7:66:SER:O	53:M7:67:ILE:O	2.38	0.42
54:M8:102:ALA:HA	54:M8:122:ILE:O	2.20	0.42
56:N0:164:SER:OG	56:N0:165:TYR:N	2.53	0.42
56:N0:29:ILE:HD13	56:N0:29:ILE:HA	1.87	0.42
58:N2:34:ALA:HA	58:N2:37:LEU:HB2	3.37	0.42
62:N6:35:LEU:HD23	62:N6:106:ILE:HD12	2.02	0.42
62:N6:53:ASP:HB2	62:N6:110:HIS:CD2	2.55	0.42
64:N8:90:TYR:CD1	64:N8:100:PRO:HD3	4.17	0.42
49:M3:159:VAL:HG13	64:N8:144:VAL:HG13	2.01	0.42
64:N8:126:LYS:HB3	64:N8:148:ILE:HD13	2.26	0.42
65:N9:37:PRO:C	65:N9:39:PHE:H	2.84	0.42
67:O1:7:VAL:HA	67:O1:77:ARG:HG2	3.03	0.42
71:O5:45:LYS:O	71:O5:47:VAL:N	2.53	0.42
72:O6:61:ILE:C	72:O6:63:ASN:H	3.25	0.42
75:O9:12:LYS:HE3	38:8:45:C:OP1	100.62	0.42
78:Q2:89:LYS:HD2	85:5:2653:C:OP1	236.68	0.42
3:S1:175:GLU:HG3	3:S1:193:ILE:HG23	2.01	0.42
3:S1:176:VAL:C	3:S1:178:GLY:N	2.73	0.42
4:S2:230:TRP:HB3	24:D2:68:ARG:HH11	1.85	0.42
4:S2:67:GLN:H	4:S2:67:GLN:CD	2.66	0.42
5:S3:113:LEU:HD23	5:S3:113:LEU:HA	1.85	0.42
6:S4:160:VAL:HG12	6:S4:162:ILE:HG12	2.01	0.42
8:S6:2:LYS:HE2	8:S6:17:GLU:OE1	4.43	0.42
9:S7:4:PRO:HB2	9:S7:25:VAL:HG11	3.81	0.42
9:S7:76:LYS:HA	9:S7:79:ARG:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S7:57:ALA:HA	9:S7:89:HIS:H	1.84	0.42
10:S8:37:LYS:HE2	10:S8:93:THR:HB	2.02	0.42
10:S8:36:THR:O	10:S8:95:THR:HG23	2.49	0.42
11:S9:134:ILE:HD12	11:S9:134:ILE:HG21	1.83	0.42
1:2:751:C:O2	11:S9:143:ILE:HG12	2.19	0.42
11:S9:33:GLU:HB2	11:S9:34:PHE:CD2	4.08	0.42
11:S9:31:ALA:HA	11:S9:36:LEU:HD12	2.09	0.42
35:SM:37:VAL:HG12	35:SM:38:PRO:O	2.24	0.42
35:SM:51:ARG:HG3	35:SM:52:PRO:CD	2.50	0.42
1:2:1257:C:H5	35:SM:96:ARG:H	1.66	0.42
34:SR:112:SER:HG	34:SR:155:ARG:NH1	2.61	0.42
34:SR:90:ARG:HH22	80:6:1341:A:H4'	455.07	0.42
36:1:1048:A:H5''	36:1:1049:C:C5'	2.50	0.41
36:1:1095:U:H4'	36:1:1096:U:C5'	2.50	0.41
36:1:1496:C:C6	36:1:1496:C:O5'	2.72	0.41
36:1:1742:U:C2	36:1:1743:G:N7	2.88	0.41
36:1:213:A:N7	36:1:214:G:N7	2.68	0.41
36:1:2152:A:H1'	36:1:2243:A:N3	2.35	0.41
36:1:2352:A:C6	36:1:2353:G:C6	3.08	0.41
36:1:155:G:C4	36:1:266:A:C2	3.08	0.41
36:1:2653:C:O2	36:1:2694:A:C6	2.73	0.41
36:1:2827:U:C6	36:1:2859:U:O4	2.73	0.41
36:1:2973:G:H2'	36:1:2973:G:N3	2.35	0.41
36:1:3242:G:N2	36:1:3245:A:OP2	2.53	0.41
36:1:3267:A:N6	43:L6:70:LYS:O	2.53	0.41
36:1:2999:U:O3'	36:1:3296:A:H4'	2.20	0.41
36:1:2573:G:N7	92:1:3531:OHX:N1	2.68	0.41
36:1:2596:U:O2'	92:1:3660:OHX:N6	2.52	0.41
36:1:405:U:O4	36:1:406:G:C6	2.73	0.41
36:1:511:G:C6	36:1:512:U:C4	3.08	0.41
36:1:521:A:N3	56:N0:65:ASN:ND2	2.68	0.41
36:1:871:U:H2'	36:1:872:U:C6	2.55	0.41
1:2:1099:A:O2'	1:2:1100:U:H5'	2.20	0.41
1:2:1218:C:O2	33:E1:138:ARG:NE	2.52	0.41
1:2:1524:G:C5	1:2:1525:G:C6	3.08	0.41
1:2:1663:G:O6	92:2:1960:OHX:N3	2.53	0.41
1:2:1784:U:H3	1:2:1809:G:H22	1.68	0.41
1:2:204:G:C6	1:2:205:U:C4	3.08	0.41
1:2:393:C:O2'	8:S6:92:ARG:NH1	2.42	0.41
1:2:550:A:C2	1:2:557:G:C6	3.08	0.41
37:3:41:G:H1'	37:3:44:C:N4	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:3:49:G:H4'	37:3:50:U:O4'	2.20	0.41
37:3:85:G:C6	37:3:87:G:N7	2.87	0.41
38:4:11:C:H2'	38:4:12:A:O4'	2.20	0.41
38:4:28:C:O2	38:4:29:U:C6	2.73	0.41
38:4:82:U:C2	38:4:83:C:C5	3.08	0.41
85:5:1013:G:N3	85:5:1014:U:H1'	2.35	0.41
85:5:1017:C:H2'	85:5:1017:C:OP1	2.20	0.41
85:5:1237:G:C6	85:5:1238:C:N4	2.88	0.41
85:5:1327:C:O2'	85:5:1328:C:H5'	2.20	0.41
85:5:141:C:H2'	85:5:142:C:C6	2.55	0.41
85:5:1519:G:H2'	85:5:1520:G:H8	1.84	0.41
85:5:155:G:C4	85:5:266:A:C2	3.08	0.41
85:5:1550:C:O2'	85:5:2167:A:N1	2.44	0.41
85:5:2645:G:N2	85:5:2646:C:H1'	2.35	0.41
51:M5:14:LYS:HE2	85:5:269:G:H5''	133.00	0.41
85:5:2392:C:O2	85:5:2987:A:N1	2.53	0.41
85:5:3307:A:C4	85:5:3308:C:C6	3.08	0.41
85:5:3383:G:H2'	85:5:3384:U:C6	2.55	0.41
92:5:3503:OHX:N3	92:7:209:OHX:N6	2.68	0.41
92:5:3718:OHX:N1	92:5:3729:OHX:N3	2.68	0.41
62:N6:89:LYS:NZ	85:5:375:A:OP2	75.59	0.41
85:5:426:G:H2'	85:5:427:C:C6	2.55	0.41
85:5:590:G:C5	85:5:591:G:C6	3.08	0.41
51:M5:177:GLY:HA2	85:5:68:C:O3'	110.60	0.41
85:5:892:U:O2'	85:5:893:C:H5'	2.19	0.41
80:6:1227:A:OP1	80:6:1228:G:H3'	2.20	0.41
80:6:1709:C:H2'	80:6:1710:U:C6	2.55	0.41
80:6:180:A:H2'	80:6:181:A:O4'	2.19	0.41
80:6:199:G:HO2'	80:6:200:A:H8	1.63	0.41
80:6:354:C:H2'	80:6:355:G:O4'	2.19	0.41
80:6:455:C:O2'	80:6:456:A:H5'	2.20	0.41
80:6:629:U:H2'	80:6:630:A:C8	2.54	0.41
80:6:65:A:O3'	80:6:66:U:H3'	2.20	0.41
80:6:829:A:HO2'	80:6:830:U:H5	1.65	0.41
80:6:891:A:C6	80:6:922:G:C6	3.07	0.41
85:5:349:A:O4'	38:8:24:G:H1'	2.20	0.41
38:8:56:G:N3	38:8:62:C:C2	2.88	0.41
38:8:73:U:C5	38:8:74:U:C5	3.08	0.41
12:C0:7:ASP:HA	12:C0:10:LYS:HD2	2.02	0.41
12:C0:31:LYS:H	12:C0:38:LYS:HA	4.17	0.41
16:C4:56:SER:HA	16:C4:57:PRO:HD3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:C7:20:TYR:CE1	19:C7:38:ILE:HD11	2.55	0.41
20:C8:47:CYS:HB3	20:C8:54:LEU:HD11	2.02	0.41
23:D1:28:ASP:C	23:D1:30:ALA:H	2.23	0.41
25:D3:126:LYS:HG2	25:D3:131:SER:HA	2.60	0.41
26:D4:26:ASP:N	26:D4:26:ASP:OD2	4.74	0.41
26:D4:53:ASP:HB3	26:D4:96:LEU:HD21	4.38	0.41
20:C8:57:ARG:HH12	27:D5:40:VAL:HG12	1.84	0.41
27:D5:44:GLN:O	27:D5:44:GLN:NE2	2.92	0.41
27:D5:77:ARG:HH11	27:D5:77:ARG:HB2	1.85	0.41
28:D6:38:ARG:NH2	28:D6:83:ILE:HG13	2.28	0.41
31:D9:24:CYS:C	31:D9:26:SER:H	2.53	0.41
14:C2:74:LEU:HD11	33:E1:106:TYR:HD1	1.84	0.41
33:E1:121:CYS:CB	33:E1:141:CYS:SG	3.07	0.41
39:L2:180:LEU:HD23	39:L2:180:LEU:HA	1.55	0.41
39:L2:181:LYS:HB3	79:Q3:18:TYR:CE2	2.55	0.41
39:L2:200:ARG:C	39:L2:202:VAL:N	2.73	0.41
40:L3:188:ILE:CD1	40:L3:188:ILE:H	2.84	0.41
40:L3:232:ARG:HD2	40:L3:232:ARG:HH11	1.70	0.41
40:L3:47:LEU:HD23	40:L3:164:THR:HG23	2.02	0.41
40:L3:4:ARG:HD2	40:L3:7:GLU:HA	2.02	0.41
41:L4:246:ARG:HD3	41:L4:246:ARG:HH11	1.79	0.41
43:L6:97:ASN:O	43:L6:99:GLU:N	2.93	0.41
44:L7:121:LYS:HE3	44:L7:125:GLU:HG2	4.00	0.41
44:L7:149:TYR:HE2	44:L7:181:ILE:HG23	2.19	0.41
45:L8:172:LYS:NZ	45:L8:172:LYS:HB2	4.67	0.41
45:L8:97:TYR:OH	45:L8:203:VAL:HG13	4.88	0.41
48:M1:89:TYR:HB3	48:M1:169:ALA:HB2	2.02	0.41
48:M1:49:LYS:HA	48:M1:63:GLU:O	5.12	0.41
49:M3:139:LEU:HD23	49:M3:139:LEU:HA	1.63	0.41
49:M3:149:GLN:HA	49:M3:150:PRO:HD3	1.79	0.41
49:M3:21:ARG:HH11	49:M3:21:ARG:HD3	1.84	0.41
49:M3:91:ARG:NH2	49:M3:97:VAL:HB	2.72	0.41
51:M5:10:LEU:HA	51:M5:10:LEU:HD23	2.87	0.41
52:M6:14:HIS:HD2	52:M6:123:ALA:HB3	3.49	0.41
52:M6:54:TYR:O	52:M6:56:ASP:N	3.40	0.41
54:M8:12:ARG:NH2	85:5:972:A:OP1	182.56	0.41
54:M8:44:PHE:CD2	54:M8:134:GLY:HA3	2.55	0.41
54:M8:65:SER:HA	54:M8:93:ILE:HD13	2.02	0.41
55:M9:94:VAL:O	55:M9:97:ARG:HB2	2.61	0.41
57:N1:112:ASN:O	57:N1:116:ARG:HB2	3.00	0.41
36:1:1051:U:H4'	57:N1:19:PHE:CD2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:N2:89:LEU:HB3	58:N2:93:ILE:HD12	2.38	0.41
61:N5:104:GLU:O	61:N5:130:TYR:HE2	2.03	0.41
63:N7:22:LYS:HG3	63:N7:49:TYR:OH	2.80	0.41
66:O0:101:LEU:HD13	66:O0:101:LEU:N	3.73	0.41
70:O4:41:ARG:HA	70:O4:42:PRO:HD3	2.16	0.41
73:O7:86:ALA:O	73:O7:87:SER:OG	2.28	0.41
91:P:75:C:O3'	98:P:101:8AN:C4'	2.68	0.41
78:Q2:104:LEU:HD22	78:Q2:104:LEU:H	1.92	0.41
78:Q2:89:LYS:HB2	85:5:2653:C:OP1	237.20	0.41
3:S1:143:THR:HG21	3:S1:156:ALA:HB2	2.33	0.41
3:S1:61:LEU:HD23	3:S1:62:LYS:H	1.85	0.41
3:S1:65:VAL:HG13	3:S1:85:LYS:HG2	2.01	0.41
3:S1:71:ALA:HB3	16:C4:114:ARG:HH12	1.85	0.41
4:S2:160:GLY:N	4:S2:167:VAL:O	2.87	0.41
5:S3:40:ARG:HG2	22:D0:110:PRO:HG3	2.00	0.41
6:S4:118:GLU:C	6:S4:120:SER:H	2.37	0.41
7:S5:109:LYS:O	7:S5:113:ILE:HG13	2.20	0.41
7:S5:29:ILE:O	7:S5:34:GLN:NE2	2.46	0.41
8:S6:153:VAL:O	8:S6:156:PHE:HB2	2.85	0.41
8:S6:76:LEU:HD23	8:S6:76:LEU:HA	1.74	0.41
9:S7:96:ARG:HD2	9:S7:121:VAL:HG13	2.01	0.41
10:S8:87:ASN:HB3	10:S8:90:LEU:CD1	2.49	0.41
11:S9:139:GLN:HG3	11:S9:140:ILE:O	3.49	0.41
11:S9:64:GLU:HG3	11:S9:69:ARG:CZ	2.50	0.41
34:SR:162:ALA:O	34:SR:163:ASP:HB3	2.20	0.41
34:SR:209:THR:OG1	34:SR:210:LEU:HG	2.20	0.41
34:SR:255:ALA:HB2	34:SR:292:LEU:HD22	2.00	0.41
36:1:1389:G:C8	92:1:3507:OHX:N4	2.88	0.41
36:1:1397:C:C5	36:1:1398:U:C5	3.07	0.41
36:1:1779:C:O2'	92:1:3586:OHX:N2	2.52	0.41
36:1:1856:C:H2'	36:1:1857:C:H6	1.83	0.41
36:1:2232:A:C6	36:1:2233:A:C6	3.07	0.41
36:1:239:G:H2'	36:1:240:U:C6	2.55	0.41
36:1:2565:U:H2'	36:1:2566:C:H6	1.84	0.41
36:1:2403:G:C5'	36:1:2872:A:C2	3.03	0.41
36:1:3226:A:C2	36:1:3260:G:C2	3.08	0.41
36:1:3351:U:O2'	36:1:3352:U:OP1	2.27	0.41
36:1:3353:G:O2'	36:1:3356:G:H5'	2.20	0.41
36:1:741:U:C2	36:1:742:G:H1'	2.54	0.41
36:1:770:G:OP1	49:M3:171:ARG:HD3	2.19	0.41
1:2:1248:G:H2'	1:2:1249:U:O4'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1727:A:C2	1:2:1728:G:C4	3.08	0.41
1:2:323:A:OP2	10:S8:10:LYS:HA	2.20	0.41
1:2:325:G:H2'	1:2:326:G:H8	1.85	0.41
1:2:336:G:OP2	92:2:1983:OHX:N3	2.53	0.41
1:2:609:U:C4	1:2:1091:G:C5	3.08	0.41
1:2:751:C:N4	1:2:752:A:C6	2.88	0.41
1:2:228:G:C4	1:2:817:G:N2	2.88	0.41
1:2:860:G:H22	1:2:934:A:H2	1.68	0.41
38:4:16:G:O6	92:4:201:OHX:N3	2.53	0.41
85:5:1120:A:C4	85:5:1139:G:N2	2.88	0.41
85:5:1317:A:C2	85:5:1319:G:C6	3.08	0.41
85:5:1670:C:H2'	85:5:1671:C:H6	1.85	0.41
58:N2:103:TYR:CZ	85:5:1677:G:OP2	145.30	0.41
85:5:1856:C:H2'	85:5:1857:C:C6	2.55	0.41
85:5:1874:A:C2'	85:5:1875:G:H5'	2.50	0.41
85:5:2805:G:N3	85:5:2967:A:H2	2.17	0.41
40:L3:275:ARG:HD2	85:5:3045:G:O2'	237.26	0.41
85:5:537:A:H2'	85:5:538:G:O4'	2.19	0.41
85:5:735:A:C5	85:5:736:A:N7	2.88	0.41
85:5:806:A:C4	85:5:936:A:N1	2.88	0.41
85:5:943:U:C2	85:5:1432:C:C5	3.07	0.41
65:N9:12:GLN:OE1	85:5:954:U:H1'	211.70	0.41
80:6:1607:G:C2	80:6:1608:U:C4	3.08	0.41
80:6:814:A:N7	80:6:816:G:C8	2.87	0.41
29:D7:20:LYS:NZ	80:6:959:U:OP2	347.65	0.41
16:C4:90:ARG:HD2	16:C4:90:ARG:HA	3.42	0.41
17:C5:128:HIS:O	17:C5:130:ARG:HG2	2.20	0.41
17:C5:31:GLU:O	17:C5:34:VAL:HG22	2.19	0.41
17:C5:87:PRO:HA	17:C5:90:ILE:CD1	3.22	0.41
20:C8:136:GLN:NE2	80:6:1544:U:OP1	354.28	0.41
1:2:1514:G:N2	21:C9:48:GLN:HE22	2.18	0.41
22:D0:15:GLN:HB2	22:D0:16:GLN:H	4.56	0.41
26:D4:95:GLY:O	26:D4:96:LEU:HD23	2.20	0.41
27:D5:48:ASP:OD1	27:D5:51:LEU:HD22	2.21	0.41
39:L2:34:TYR:O	39:L2:35:ALA:C	2.87	0.41
36:1:912:G:OP2	39:L2:9:ARG:NH1	2.52	0.41
40:L3:308:MET:HE3	40:L3:370:PHE:O	3.69	0.41
40:L3:328:ILE:HD13	40:L3:328:ILE:HG21	1.67	0.41
41:L4:166:VAL:O	41:L4:170:LYS:HD2	2.20	0.41
41:L4:193:LYS:HA	41:L4:198:ARG:HA	2.17	0.41
41:L4:311:HIS:CE1	41:L4:314:LYS:HA	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:L5:110:LEU:HD23	42:L5:110:LEU:C	5.30	0.41
42:L5:11:ALA:O	42:L5:12:TYR:C	2.58	0.41
42:L5:297:GLN:N	42:L5:297:GLN:CD	4.42	0.41
42:L5:29:ASP:O	42:L5:32:GLN:HB3	2.19	0.41
42:L5:38:THR:O	42:L5:48:LYS:HD3	2.20	0.41
43:L6:18:LEU:H	43:L6:18:LEU:HD12	5.03	0.41
43:L6:7:PRO:HG2	43:L6:10:TYR:CE2	2.55	0.41
44:L7:178:ILE:HG21	44:L7:178:ILE:HD13	1.84	0.41
45:L8:128:LYS:HG3	85:5:120:G:N7	98.99	0.41
46:L9:168:ARG:O	46:L9:169:ASN:HB2	2.89	0.41
46:L9:27:VAL:O	46:L9:33:THR:HA	2.54	0.41
46:L9:7:GLU:HB2	46:L9:56:ALA:HB2	2.34	0.41
47:M0:190:VAL:CG1	47:M0:197:VAL:HG11	3.40	0.41
48:M1:96:PHE:CD1	48:M1:102:PHE:HB3	2.55	0.41
49:M3:63:VAL:HG23	49:M3:63:VAL:H	1.55	0.41
50:M4:50:LYS:HD2	50:M4:50:LYS:HA	1.92	0.41
50:M4:94:TRP:O	50:M4:96:ALA:N	3.33	0.41
51:M5:139:HIS:O	51:M5:142:ILE:N	2.51	0.41
51:M5:181:ASN:O	51:M5:182:ASN:C	2.56	0.41
51:M5:83:LYS:HA	51:M5:84:PRO:HD3	2.68	0.41
51:M5:85:THR:OG1	51:M5:86:ASN:N	4.10	0.41
36:1:1189:C:C4	52:M6:133:ARG:CZ	3.03	0.41
52:M6:47:PHE:CD1	52:M6:47:PHE:C	2.93	0.41
54:M8:185:LYS:HD3	54:M8:186:VAL:HG23	2.02	0.41
54:M8:71:LEU:HA	54:M8:71:LEU:HD23	2.42	0.41
54:M8:96:PHE:CD1	54:M8:97:PRO:O	2.73	0.41
55:M9:20:ARG:H	55:M9:20:ARG:HG2	1.70	0.41
61:N5:43:ALA:O	61:N5:44:PRO:O	2.38	0.41
63:N7:65:ARG:NH2	85:5:1809:A:OP1	187.17	0.41
63:N7:72:ILE:H	63:N7:72:ILE:HG13	1.70	0.41
63:N7:38:PHE:CD2	63:N7:76:ASN:ND2	3.01	0.41
67:O1:31:ARG:HH11	67:O1:31:ARG:CB	2.47	0.41
67:O1:44:MET:O	67:O1:46:THR:N	3.90	0.41
68:O2:66:LEU:HA	68:O2:66:LEU:HD23	1.59	0.41
69:O3:102:LEU:HA	69:O3:102:LEU:HD23	1.92	0.41
70:O4:81:CYS:O	70:O4:84:CYS:N	3.55	0.41
61:N5:46:TYR:HB3	71:O5:75:TYR:HB3	2.31	0.41
73:O7:2:GLY:HA3	73:O7:6:PRO:HG3	2.40	0.41
75:O9:47:THR:HG22	75:O9:48:LYS:N	2.89	0.41
75:O9:6:SER:HB3	75:O9:9:ILE:CG1	4.89	0.41
78:Q2:61:LYS:CB	78:Q2:61:LYS:HZ2	2.22	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:Q3:44:LYS:HB2	79:Q3:46:THR:OG1	3.07	0.41
2:S0:29:VAL:HG13	2:S0:150:ASP:HB3	2.02	0.41
2:S0:179:ARG:O	2:S0:182:LEU:HB2	3.35	0.41
2:S0:35:PRO:C	2:S0:37:VAL:N	2.74	0.41
3:S1:189:ILE:HB	3:S1:190:PRO:HD3	2.20	0.41
4:S2:129:ILE:HG21	4:S2:129:ILE:HD13	1.86	0.41
7:S5:54:LYS:HD2	7:S5:135:ASP:OD2	2.35	0.41
8:S6:38:GLY:HA2	8:S6:41:VAL:HG23	4.14	0.41
8:S6:56:ASN:ND2	8:S6:60:GLY:O	2.53	0.41
34:SR:288:HIS:NE2	34:SR:306:THR:HG21	2.46	0.41
36:1:1017:C:OP2	36:1:1017:C:C6	2.73	0.41
36:1:1111:U:H5''	49:M3:5:LYS:HE2	2.03	0.41
36:1:1208:U:H4'	36:1:1209:G:OP1	2.20	0.41
36:1:1462:A:C4	36:1:1463:U:C6	3.08	0.41
36:1:1613:A:P	74:O8:46:ARG:NH2	2.94	0.41
36:1:1653:G:H2'	36:1:1654:A:C8	2.55	0.41
36:1:1842:A:H4'	36:1:1843:C:OP2	2.19	0.41
36:1:1913:A:C5	36:1:2120:A:C2	3.08	0.41
36:1:2280:A:C2	36:1:2282:U:C4	3.08	0.41
36:1:2403:G:P	92:1:3702:OHX:N5	2.94	0.41
36:1:397:A:C6	36:1:400:G:C6	3.08	0.41
36:1:580:C:H2'	36:1:581:U:O4'	2.20	0.41
36:1:596:C:OP1	44:L7:33:ARG:HD2	2.20	0.41
36:1:893:C:O5'	36:1:893:C:H6	2.03	0.41
1:2:1009:A:O2'	1:2:1010:A:OP1	2.29	0.41
1:2:1081:U:H3'	1:2:1082:U:H5'	2.02	0.41
1:2:1267:C:H4'	1:2:1268:U:H5''	2.02	0.41
1:2:1320:A:N6	1:2:1370:G:H22	2.18	0.41
1:2:15:U:H2'	1:2:16:G:O4'	2.20	0.41
1:2:330:G:C5	1:2:331:A:N7	2.88	0.41
1:2:325:G:C6	1:2:344:A:N1	2.88	0.41
1:2:351:C:H5	1:2:631:G:H5''	1.85	0.41
1:2:612:U:C5	1:2:613:G:C4	3.09	0.41
37:3:12:U:H6	37:3:110:G:H21	1.66	0.41
37:3:121:U:C2	42:L5:268:GLU:HB3	2.55	0.41
38:4:81:U:O2'	38:4:82:U:H5'	2.20	0.41
85:5:1317:A:C5	85:5:1319:G:C8	3.08	0.41
85:5:1504:A:N6	85:5:1505:C:N4	2.68	0.41
85:5:1680:G:H2'	85:5:1681:U:H6	1.85	0.41
85:5:1858:A:O2'	85:5:1859:A:OP2	2.37	0.41
85:5:1861:G:C5	85:5:1862:U:C5	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:1863:G:N1	85:5:1866:C:OP2	2.47	0.41
85:5:2117:A:H3'	85:5:2118:C:H6	1.84	0.41
85:5:2194:G:H1'	85:5:2274:U:O2	2.20	0.41
85:5:2277:C:H5'	85:5:2317:A:H4'	2.02	0.41
85:5:2770:G:C6	85:5:2771:U:O4	2.73	0.41
85:5:2884:C:C2	85:5:2939:G:N1	2.88	0.41
85:5:2985:C:H2'	85:5:2986:U:C6	2.55	0.41
85:5:3062:G:C2	85:5:3063:C:C6	3.08	0.41
85:5:3103:A:N6	85:5:3104:U:C4	2.88	0.41
41:L4:196:ASN:ND2	85:5:337:G:OP2	91.62	0.41
92:5:3433:OHX:N4	92:5:3671:OHX:N5	2.67	0.41
85:5:601:U:H2'	85:5:602:A:O4'	2.20	0.41
85:5:651:G:H2'	85:5:652:G:C8	2.55	0.41
30:D8:22:ARG:HG3	80:6:1619:C:C2	341.67	0.41
80:6:217:A:N3	80:6:217:A:H2'	2.36	0.41
80:6:252:U:H2'	80:6:253:A:C8	2.55	0.41
80:6:447:U:O4	80:6:448:C:N4	2.54	0.41
80:6:879:G:H2'	80:6:880:C:H6	1.84	0.41
37:7:116:C:C4	37:7:117:A:N7	2.88	0.41
37:7:75:G:H5''	37:7:76:A:OP2	2.20	0.41
38:8:65:A:H2'	38:8:66:A:O4'	2.20	0.41
12:C0:2:LEU:HB3	12:C0:3:MET:H	4.35	0.41
12:C0:87:UNK:O	12:C0:89:UNK:N	4.44	0.41
15:C3:21:ASN:HB2	15:C3:22:ALA:H	1.71	0.41
16:C4:17:ALA:HA	16:C4:30:VAL:HG22	4.34	0.41
17:C5:11:VAL:HG22	17:C5:11:VAL:O	3.54	0.41
18:C6:128:LYS:HG2	18:C6:128:LYS:H	1.50	0.41
18:C6:99:GLU:OE1	18:C6:103:ASN:ND2	5.65	0.41
23:D1:15:ARG:HB3	23:D1:16:LYS:H	1.75	0.41
24:D2:125:ILE:HG21	24:D2:125:ILE:HD13	1.81	0.41
25:D3:52:ILE:O	25:D3:74:VAL:HA	2.20	0.41
25:D3:74:VAL:HG21	25:D3:104:LEU:HD21	2.94	0.41
28:D6:41:ILE:HD12	28:D6:68:TYR:CD1	5.64	0.41
39:L2:148:VAL:O	39:L2:155:LYS:HA	2.20	0.41
39:L2:230:VAL:HG11	85:5:2424:A:C2	182.04	0.41
40:L3:103:THR:HG22	40:L3:104:THR:H	1.86	0.41
36:1:3011:A:C8	40:L3:13:HIS:NE2	2.88	0.41
40:L3:239:PRO:HD2	40:L3:242:THR:HG23	2.76	0.41
41:L4:25:VAL:O	41:L4:127:ALA:HB2	2.60	0.41
41:L4:150:LEU:HD21	41:L4:172:VAL:HG22	2.02	0.41
41:L4:195:ARG:NH2	85:5:341:G:N7	109.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:185:LYS:HE2	41:L4:199:TRP:HB3	4.30	0.41
41:L4:185:LYS:HE2	41:L4:201:GLN:OE1	2.21	0.41
41:L4:343:LYS:HA	85:5:515:C:O3'	303.97	0.41
42:L5:124:GLU:O	42:L5:126:GLU:N	2.53	0.41
42:L5:8:LYS:HB3	42:L5:12:TYR:CD2	4.80	0.41
42:L5:151:GLN:HG3	42:L5:159:VAL:CG2	2.50	0.41
42:L5:227:LEU:HD12	42:L5:227:LEU:HA	3.00	0.41
42:L5:284:ALA:O	42:L5:287:ALA:N	2.53	0.41
44:L7:137:GLY:HA3	44:L7:236:ILE:HB	2.08	0.41
46:L9:101:VAL:HG22	46:L9:114:VAL:HG22	2.97	0.41
46:L9:147:SER:HB2	46:L9:187:ILE:HD11	2.02	0.41
46:L9:173:ARG:HH11	46:L9:173:ARG:HD3	1.56	0.41
46:L9:187:ILE:HG21	46:L9:187:ILE:HD13	2.06	0.41
47:M0:171:TRP:HE3	47:M0:178:ARG:HB3	1.84	0.41
47:M0:52:LEU:HA	47:M0:52:LEU:HD23	1.95	0.41
49:M3:101:ARG:CG	49:M3:102:GLN:N	2.84	0.41
49:M3:126:PHE:CD2	49:M3:133:PRO:HD2	2.56	0.41
50:M4:48:GLY:HA3	50:M4:53:VAL:HG13	2.00	0.41
50:M4:48:GLY:O	50:M4:49:PRO:C	2.78	0.41
51:M5:83:LYS:HA	51:M5:84:PRO:HD2	1.86	0.41
51:M5:99:ARG:O	51:M5:102:ALA:HB3	2.20	0.41
57:N1:120:LYS:HE3	57:N1:120:LYS:HB2	1.89	0.41
57:N1:73:GLY:HA2	57:N1:89:LEU:O	2.21	0.41
59:N3:120:LYS:O	59:N3:123:ALA:N	2.53	0.41
63:N7:109:GLU:CD	63:N7:112:LYS:HD2	2.40	0.41
68:O2:62:LYS:NZ	85:5:590:G:H5''	202.54	0.41
69:O3:58:GLU:HG3	69:O3:62:SER:O	2.20	0.41
71:O5:12:LYS:HB2	71:O5:17:LEU:HG	2.02	0.41
73:O7:21:ARG:CZ	73:O7:39:TYR:HB2	2.50	0.41
78:Q2:10:THR:HA	78:Q2:20:HIS:HD2	3.26	0.41
39:L2:174:ARG:HA	79:Q3:69:TYR:CE2	3.08	0.41
6:S4:212:ASP:OD2	6:S4:216:ASN:HB2	2.20	0.41
6:S4:244:ILE:O	6:S4:245:LYS:HB3	2.48	0.41
6:S4:71:LYS:HA	6:S4:76:VAL:O	2.21	0.41
8:S6:25:ARG:HA	8:S6:28:PHE:CD1	2.55	0.41
9:S7:126:LEU:HA	9:S7:126:LEU:HD12	2.57	0.41
9:S7:20:VAL:O	9:S7:23:ALA:HB3	2.47	0.41
10:S8:107:THR:OG1	10:S8:108:PRO:HD3	2.21	0.41
36:1:1195:A:H1'	36:1:1319:G:H4'	2.03	0.41
36:1:156:G:OP2	72:O6:25:LYS:HB3	2.20	0.41
36:1:1696:A:H2'	36:1:1697:A:C8	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1815:U:HO2'	36:1:1816:A:P	2.44	0.41
36:1:1933:A:N7	36:1:1934:G:C8	2.89	0.41
36:1:2443:A:N6	36:1:2504:U:C4	2.88	0.41
36:1:2623:G:C2	47:M0:116:ARG:NH1	2.88	0.41
36:1:2630:C:O4'	36:1:2758:A:H1'	2.19	0.41
36:1:3282:U:H2'	36:1:3283:U:C6	2.56	0.41
36:1:3328:G:C2	36:1:3329:U:C1'	3.04	0.41
36:1:578:A:H2'	41:L4:334:PHE:CD2	2.56	0.41
1:2:142:G:H22	1:2:173:A:H2	1.67	0.41
1:2:1646:G:C2	1:2:1647:C:C2	3.08	0.41
37:3:8:G:C6	37:3:9:C:N4	2.88	0.41
85:5:119:U:H4'	85:5:120:G:H3'	2.02	0.41
85:5:1208:U:H6	85:5:3115:C:H42	1.69	0.41
85:5:1235:U:C4'	85:5:1236:G:H5'	2.51	0.41
85:5:1209:G:C2	85:5:1297:C:O2	2.74	0.41
85:5:1387:G:C2	85:5:1388:U:C6	3.08	0.41
51:M5:105:ARG:NH1	85:5:1545:A:C5	133.43	0.41
85:5:1618:G:C2	85:5:1619:A:H1'	2.56	0.41
85:5:2607:G:C4	85:5:2608:G:C8	3.09	0.41
85:5:284:A:O2'	85:5:285:A:N1	2.54	0.41
85:5:2895:G:N3	85:5:2895:G:H2'	2.35	0.41
85:5:2890:A:H61	85:5:2913:C:H42	1.66	0.41
85:5:2933:A:N6	85:5:2934:A:N1	2.68	0.41
85:5:303:G:C2	85:5:2778:G:C5	3.08	0.41
85:5:3288:G:C2	85:5:3289:G:H1'	2.55	0.41
62:N6:89:LYS:NZ	85:5:375:A:O5'	76.77	0.41
85:5:543:C:H42	85:5:548:G:H1	1.66	0.41
85:5:737:G:N1	85:5:738:A:C5	2.89	0.41
68:O2:55:ILE:N	85:5:947:G:OP1	188.75	0.41
80:6:1045:C:N4	80:6:1074:G:C6	2.88	0.41
80:6:1085:G:H2'	80:6:1087:A:OP2	2.21	0.41
80:6:116:U:H2'	80:6:117:U:C6	2.55	0.41
80:6:1200:G:H4'	80:6:1201:G:C5'	2.51	0.41
80:6:1673:G:C6	80:6:1674:C:N4	2.88	0.41
80:6:353:A:OP2	92:6:1906:OHX:N6	2.53	0.41
80:6:328:A:H2'	80:6:329:G:O4'	2.20	0.41
80:6:675:U:H2'	80:6:676:G:H8	1.84	0.41
80:6:743:U:C2	80:6:809:A:N3	2.88	0.41
80:6:86:A:C2	80:6:87:C:C5	3.09	0.41
16:C4:31:THR:CB	16:C4:38:THR:HA	2.49	0.41
20:C8:110:ARG:O	20:C8:111:ASP:C	2.57	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:C9:113:ILE:HG23	21:C9:128:GLY:HA2	2.02	0.41
23:D1:66:ASP:O	23:D1:69:LEU:N	3.27	0.41
23:D1:69:LEU:O	23:D1:73:ALA:N	2.64	0.41
25:D3:133:LEU:HD23	25:D3:133:LEU:HA	2.76	0.41
25:D3:17:VAL:HG13	25:D3:18:HIS:N	4.21	0.41
39:L2:205:ASN:C	39:L2:207:VAL:H	2.64	0.41
39:L2:8:GLN:O	85:5:2164:A:H5'	177.49	0.41
41:L4:323:VAL:HG13	41:L4:326:ARG:NH2	3.41	0.41
44:L7:44:ILE:CD1	44:L7:180:SER:HB3	2.41	0.41
44:L7:77:VAL:HG13	57:N1:139:ARG:HB2	5.96	0.41
45:L8:200:LEU:HA	45:L8:200:LEU:HD23	1.58	0.41
46:L9:9:GLN:OE1	46:L9:54:LYS:HE2	7.92	0.41
46:L9:93:VAL:HB	76:Q0:82:LEU:HD13	2.03	0.41
47:M0:171:TRP:CG	47:M0:181:TYR:HD2	2.37	0.41
51:M5:150:TRP:CZ3	51:M5:151:ILE:HG12	2.55	0.41
51:M5:181:ASN:HA	51:M5:184:LYS:HE3	2.02	0.41
51:M5:47:LYS:O	51:M5:50:ARG:N	2.51	0.41
55:M9:127:SER:HA	55:M9:132:PHE:HD2	1.85	0.41
55:M9:44:LEU:HA	55:M9:47:ASN:HB2	5.54	0.41
55:M9:64:ARG:HH11	55:M9:64:ARG:HD2	2.18	0.41
57:N1:47:SER:H	57:N1:47:SER:HG	3.04	0.41
60:N4:13:ILE:HG12	60:N4:32:GLN:HA	2.01	0.41
61:N5:67:ILE:CD1	61:N5:115:ARG:NH2	2.83	0.41
61:N5:135:ILE:O	61:N5:135:ILE:HD13	2.21	0.41
61:N5:40:LEU:HA	61:N5:40:LEU:HD12	1.68	0.41
62:N6:12:ARG:HD3	85:5:215:G:C5'	86.76	0.41
64:N8:21:ARG:NH1	85:5:1369:A:OP1	182.68	0.41
64:N8:9:ARG:HB3	64:N8:9:ARG:HE	1.66	0.41
68:O2:85:LEU:HB2	68:O2:117:ILE:CD1	2.50	0.41
69:O3:88:ASN:OD1	92:O3:201:OHX:N2	2.53	0.41
74:O8:73:LEU:O	74:O8:75:VAL:HG23	2.20	0.41
75:O9:21:ARG:NH1	75:O9:24:PRO:HG3	2.35	0.41
78:Q2:38:GLN:NE2	78:Q2:38:GLN:HA	2.61	0.41
2:S0:163:ASN:OD1	2:S0:165:ARG:HB2	2.28	0.41
2:S0:53:THR:HA	2:S0:161:PRO:HD2	2.09	0.41
2:S0:56:LYS:HE3	2:S0:158:VAL:HG23	3.77	0.41
3:S1:195:LYS:HA	3:S1:195:LYS:HD3	2.87	0.41
3:S1:196:GLU:HA	3:S1:199:ASN:HD22	1.85	0.41
5:S3:175:VAL:HG13	5:S3:182:LEU:HD13	2.02	0.41
1:2:1421:G:O4'	5:S3:180:GLY:HA2	2.20	0.41
6:S4:43:PRO:O	6:S4:46:VAL:N	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S4:64:ILE:CG1	26:D4:18:LEU:HG	2.50	0.41
8:S6:146:GLY:O	8:S6:147:LEU:HD23	2.21	0.41
8:S6:202:ARG:O	8:S6:205:ALA:HB3	2.20	0.41
8:S6:57:ASP:O	8:S6:60:GLY:N	2.63	0.41
9:S7:62:VAL:HG11	9:S7:67:LEU:HG	2.02	0.41
10:S8:147:ALA:C	10:S8:149:SER:H	3.02	0.41
10:S8:87:ASN:O	10:S8:90:LEU:HD12	2.34	0.41
10:S8:8:ARG:NH2	10:S8:21:PHE:HB3	2.36	0.41
11:S9:161:THR:HG22	11:S9:162:SER:H	1.86	0.41
36:1:1047:A:N1	36:1:1048:A:C6	2.88	0.41
36:1:1149:G:C6	36:1:1155:C:N4	2.88	0.41
36:1:1343:A:H2'	36:1:1344:G:C8	2.55	0.41
36:1:1953:G:N2	36:1:2093:A:N7	2.67	0.41
36:1:1449:A:N3	36:1:2356:A:C6	2.89	0.41
36:1:2674:A:C6	36:1:2675:C:C4	3.07	0.41
36:1:2688:U:OP1	42:L5:12:TYR:OH	2.32	0.41
36:1:2714:G:O6	36:1:2741:C:N3	2.54	0.41
36:1:275:U:O4	92:1:3525:OHX:N2	2.53	0.41
36:1:2766:U:C2	36:1:2767:U:C6	3.09	0.41
36:1:938:C:O2'	36:1:2814:G:O2'	2.33	0.41
36:1:2833:A:C5	36:1:2856:G:C2	3.08	0.41
36:1:2987:A:O5'	36:1:2987:A:H8	2.02	0.41
36:1:3379:C:OP2	92:1:3443:OHX:N2	2.53	0.41
92:1:3604:OHX:N4	92:1:3651:OHX:N5	2.68	0.41
92:1:3600:OHX:N3	92:1:3648:OHX:N6	2.69	0.41
92:1:3511:OHX:N3	92:1:3690:OHX:N6	2.69	0.41
36:1:532:A:C8	36:1:555:U:C4	3.09	0.41
36:1:574:U:H2'	36:1:575:G:C8	2.56	0.41
36:1:62:A:C2'	36:1:63:A:O5'	2.69	0.41
36:1:73:C:H4'	36:1:74:G:OP2	2.20	0.41
36:1:849:C:H2'	36:1:850:U:C6	2.55	0.41
36:1:996:A:H2'	36:1:997:A:O4'	2.19	0.41
1:2:1056:G:H4'	15:C3:10:GLY:HA2	2.01	0.41
1:2:1146:A:N6	1:2:1147:G:C6	2.88	0.41
1:2:1280:G:N2	1:2:1282:G:H3'	2.36	0.41
1:2:144:U:C2	1:2:145:A:C8	3.08	0.41
1:2:1464:C:HO2'	1:2:1465:C:P	2.42	0.41
1:2:1519:G:N1	1:2:1521:U:O2	2.53	0.41
1:2:1640:U:C4	92:2:1966:OHX:N2	2.89	0.41
1:2:265:A:C2	1:2:267:U:N3	2.89	0.41
1:2:450:U:C2	1:2:451:A:N7	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:523:G:OP1	26:D4:59:GLY:O	2.38	0.41
1:2:545:A:H1'	1:2:546:U:O4'	2.20	0.41
1:2:584:C:H4'	32:E0:15:LYS:HB2	2.01	0.41
37:3:36:C:O2'	37:3:37:G:H5'	2.20	0.41
85:5:1018:G:C2	85:5:1019:G:H1'	2.55	0.41
85:5:1050:U:O2	85:5:1051:U:C5	2.73	0.41
85:5:1265:U:C2	85:5:1277:C:O2	2.73	0.41
85:5:1346:G:C6	85:5:1347:U:C4	3.08	0.41
85:5:1480:G:N2	85:5:1872:C:C5	2.88	0.41
85:5:1525:G:H5'	85:5:1830:G:OP2	2.21	0.41
85:5:1544:G:C2	85:5:1550:C:C2	3.08	0.41
85:5:1902:G:N3	85:5:2336:U:O2'	2.46	0.41
85:5:2249:G:C2	85:5:2250:G:C4	3.08	0.41
85:5:2828:G:N2	85:5:2863:G:H1'	2.35	0.41
85:5:3102:G:N2	85:5:3133:C:O2	2.54	0.41
85:5:3168:A:H2'	85:5:3169:U:O4'	2.21	0.41
85:5:3005:A:OP2	92:5:3605:OHX:N4	2.52	0.41
49:M3:35:ARG:NH1	85:5:685:G:OP1	81.84	0.41
85:5:872:U:H2'	85:5:873:C:C6	2.56	0.41
80:6:1166:A:H2'	80:6:1167:G:O4'	2.19	0.41
80:6:1354:G:H3'	80:6:1355:C:C6	2.55	0.41
80:6:143:G:C5	80:6:173:A:C2	3.08	0.41
80:6:515:A:OP2	92:6:1956:OHX:N6	2.53	0.41
80:6:386:G:O6	80:6:387:A:N6	2.53	0.41
80:6:595:G:C6	80:6:596:C:C4	3.08	0.41
80:6:807:A:C6	80:6:808:U:N3	2.88	0.41
80:6:822:U:H2'	80:6:823:G:O4'	2.20	0.41
38:8:81:U:N3	38:8:83:C:C6	2.88	0.41
12:C0:55:VAL:HG23	12:C0:67:THR:O	2.50	0.41
14:C2:66:VAL:HG11	14:C2:71:ILE:HD12	2.03	0.41
15:C3:151:ASN:C	92:C3:201:OHX:N3	2.74	0.41
17:C5:127:ARG:CZ	35:SM:66:ALA:HB2	5.43	0.41
22:D0:47:GLN:HE21	22:D0:48:HIS:CE1	9.51	0.41
24:D2:6:VAL:C	24:D2:8:ALA:N	2.96	0.41
28:D6:2:PRO:HB2	28:D6:3:LYS:H	1.60	0.41
33:E1:127:GLY:C	33:E1:129:GLY:H	2.23	0.41
39:L2:137:ILE:HG12	39:L2:147:ARG:HG3	6.03	0.41
39:L2:230:VAL:HG21	85:5:2424:A:N1	184.09	0.41
39:L2:77:ILE:HD13	39:L2:77:ILE:HG21	1.87	0.41
40:L3:256:HIS:HA	40:L3:257:PRO:C	2.47	0.41
40:L3:227:GLU:CG	40:L3:270:ARG:HE	3.14	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:L3:286:GLY:O	40:L3:320:ASP:HB3	2.19	0.41
42:L5:38:THR:HG22	57:N1:30:TYR:HB3	2.02	0.41
42:L5:39:GLN:O	42:L5:40:HIS:C	2.96	0.41
43:L6:152:THR:HA	43:L6:153:PRO:HD3	2.09	0.41
44:L7:128:LYS:O	44:L7:130:ILE:N	3.38	0.41
44:L7:222:HIS:ND1	44:L7:223:PHE:N	2.84	0.41
45:L8:222:PHE:O	45:L8:223:ALA:HB2	4.63	0.41
45:L8:24:ASN:O	45:L8:25:PRO:C	2.86	0.41
47:M0:79:VAL:H	47:M0:79:VAL:HG23	3.17	0.41
48:M1:79:ILE:HG21	48:M1:79:ILE:HD13	2.05	0.41
48:M1:7:ASN:N	48:M1:8:PRO:HD3	3.17	0.41
49:M3:127:PRO:HG2	49:M3:131:LYS:HD2	2.03	0.41
49:M3:47:ALA:HB1	49:M3:48:PRO:CD	2.45	0.41
51:M5:91:GLU:H	51:M5:91:GLU:HG3	3.03	0.41
52:M6:110:PRO:O	52:M6:113:ASP:N	4.49	0.41
53:M7:52:LEU:HD22	53:M7:88:VAL:HG11	3.19	0.41
54:M8:140:LEU:HD23	54:M8:140:LEU:HA	1.75	0.41
54:M8:159:LYS:HA	54:M8:159:LYS:HD3	3.89	0.41
54:M8:30:VAL:O	54:M8:31:LYS:C	2.58	0.41
55:M9:92:GLN:HG2	55:M9:96:ILE:CD1	2.51	0.41
55:M9:96:ILE:O	55:M9:97:ARG:C	2.69	0.41
57:N1:20:ARG:HD3	57:N1:20:ARG:HH11	1.70	0.41
61:N5:106:ASP:HB3	61:N5:127:THR:HG21	2.15	0.41
62:N6:36:SER:HB2	62:N6:37:LYS:NZ	4.29	0.41
36:1:228:U:C5'	62:N6:8:VAL:HG11	2.48	0.41
54:M8:175:ALA:H	64:N8:51:GLY:HA2	1.86	0.41
65:N9:54:LEU:HD23	65:N9:54:LEU:HA	1.73	0.41
67:O1:13:THR:HG22	67:O1:72:ARG:HH11	1.85	0.41
69:O3:29:LEU:HD23	69:O3:29:LEU:HA	1.78	0.41
70:O4:71:THR:CG2	70:O4:77:GLY:HA3	2.51	0.41
73:O7:4:GLY:O	73:O7:5:THR:C	2.72	0.41
78:Q2:17:CYS:SG	78:Q2:21:THR:HG21	3.07	0.41
78:Q2:58:PHE:HD1	78:Q2:59:HIS:H	1.68	0.41
78:Q2:60:LYS:HG2	78:Q2:60:LYS:H	2.48	0.41
79:Q3:13:LYS:HG3	79:Q3:14:TYR:CD1	3.14	0.41
2:S0:26:ALA:HB3	2:S0:149:LEU:HB2	2.01	0.41
2:S0:180:GLU:N	2:S0:180:GLU:OE1	4.30	0.41
2:S0:188:LEU:HD23	2:S0:188:LEU:HA	2.97	0.41
2:S0:34:GLU:N	2:S0:35:PRO:HD2	3.30	0.41
4:S2:218:ILE:HG13	4:S2:218:ILE:H	1.71	0.41
4:S2:140:ARG:HH21	4:S2:229:LEU:HD22	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S3:92:GLN:CD	5:S3:92:GLN:H	2.22	0.41
6:S4:114:ILE:HD12	6:S4:118:GLU:HB3	2.03	0.41
6:S4:45:ILE:HD13	6:S4:45:ILE:HG21	2.21	0.41
6:S4:49:ARG:NH1	6:S4:50:ASN:OD1	2.53	0.41
7:S5:203:LYS:HD2	7:S5:203:LYS:HA	1.70	0.41
35:SM:54:PRO:HB2	35:SM:59:GLY:CA	2.50	0.41
34:SR:112:SER:CB	34:SR:153:GLN:HA	2.64	0.41
34:SR:52:GLN:HG2	34:SR:53:LYS:N	2.36	0.41
36:1:1010:G:C6	36:1:1011:A:C5	3.08	0.41
36:1:142:C:H2'	36:1:143:G:O4'	2.20	0.41
36:1:1488:G:H2'	36:1:1489:A:H8	1.85	0.41
36:1:1680:G:C5	36:1:1681:U:C5	3.09	0.41
36:1:1795:U:H2'	39:L2:50:HIS:CD2	2.56	0.41
36:1:1899:G:H5'	59:N3:21:ALA:HA	2.02	0.41
36:1:2157:G:C6	39:L2:151:PRO:HD2	2.56	0.41
36:1:2362:C:H2'	36:1:2363:A:O4'	2.21	0.41
36:1:269:G:P	51:M5:44:ARG:HH22	2.44	0.41
36:1:2699:G:C5'	36:1:2700:G:OP2	2.69	0.41
36:1:1404:G:N7	92:1:3568:OHX:N3	2.68	0.41
36:1:404:G:H2'	36:1:405:U:O4'	2.20	0.41
36:1:564:G:H2'	36:1:565:U:H6	1.85	0.41
36:1:595:G:N1	36:1:609:G:H5''	2.36	0.41
36:1:892:U:H2'	36:1:893:C:O4'	2.21	0.41
36:1:987:U:H2'	36:1:988:U:H6	1.84	0.41
36:1:999:G:N3	36:1:1002:A:N6	2.68	0.41
1:2:968:G:C2	1:2:1000:U:C2	3.09	0.41
1:2:1251:G:H5''	1:2:1252:U:OP1	2.20	0.41
1:2:1768:U:H2'	1:2:1769:G:C8	2.56	0.41
1:2:1794:G:H22	1:2:1799:C:H42	1.68	0.41
1:2:1123:G:N7	92:2:1944:OHX:N2	2.69	0.41
1:2:1137:G:N7	92:2:2013:OHX:N1	2.68	0.41
1:2:253:A:H2'	1:2:254:A:H8	1.82	0.41
1:2:259:U:O2'	1:2:260:U:H5'	2.20	0.41
1:2:539:G:OP2	1:2:539:G:C8	2.69	0.41
1:2:609:U:C5	1:2:1091:G:C8	3.09	0.41
1:2:848:A:C4	1:2:849:G:C8	3.08	0.41
1:2:869:U:H2'	1:2:870:A:O4'	2.21	0.41
38:4:100:U:H5''	38:4:101:U:OP2	2.21	0.41
85:5:1088:U:H2'	85:5:1089:G:O4'	2.20	0.41
85:5:1204:A:H2'	85:5:1205:A:H5'	2.03	0.41
85:5:1658:G:C5	85:5:1659:U:C5	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:N7:64:LYS:NZ	85:5:1812:G:N7	186.99	0.41
85:5:1946:A:N6	85:5:1947:G:O6	2.53	0.41
85:5:221:A:H4'	85:5:222:A:OP1	2.21	0.41
85:5:2606:G:N3	85:5:2606:G:H2'	2.35	0.41
85:5:302:U:O2	85:5:302:U:H2'	2.21	0.41
85:5:303:G:C2	85:5:2778:G:N7	2.89	0.41
85:5:3264:G:N2	85:5:3265:C:H1'	2.35	0.41
92:5:3531:OHX:N3	92:5:3645:OHX:N5	2.69	0.41
85:5:590:G:N7	85:5:591:G:O6	2.53	0.41
64:N8:25:HIS:ND1	85:5:661:G:N7	160.83	0.41
41:L4:73:ARG:NH1	85:5:805:G:H1'	164.53	0.41
79:Q3:4:ARG:NH2	85:5:838:G:O6	237.02	0.41
85:5:977:C:O2'	85:5:978:G:H5'	2.20	0.41
80:6:1207:C:C2	80:6:1208:A:C6	3.08	0.41
80:6:143:G:C6	80:6:173:A:C2	3.08	0.41
80:6:145:A:C6	80:6:146:U:C4	3.08	0.41
80:6:330:G:H2'	80:6:331:A:H8	1.86	0.41
80:6:39:A:C4	80:6:467:G:N2	2.87	0.41
3:S1:158:SER:HB2	80:6:875:G:OP2	314.04	0.41
80:6:87:C:C4	80:6:88:U:C5	3.08	0.41
38:8:65:A:N6	38:8:66:A:C5	2.88	0.41
1:2:1241:U:H5'	12:C0:1:MET:O	2.20	0.41
13:C1:5:LEU:H	13:C1:5:LEU:HD13	5.36	0.41
14:C2:41:LEU:O	14:C2:43:ARG:HD3	2.63	0.41
14:C2:68:GLU:O	14:C2:70:ASN:N	2.53	0.41
15:C3:102:LEU:HD21	15:C3:111:ALA:HB3	3.65	0.41
18:C6:66:ARG:HH21	18:C6:68:ARG:HD3	1.85	0.41
1:2:1592:U:H5''	18:C6:75:VAL:HG23	2.01	0.41
19:C7:83:GLN:O	19:C7:84:TYR:HB2	2.21	0.41
20:C8:26:ILE:HD11	20:C8:31:ALA:CA	2.50	0.41
22:D0:24:ILE:HG12	22:D0:116:VAL:HG13	2.03	0.41
22:D0:24:ILE:HD11	22:D0:103:ILE:HG23	4.78	0.41
24:D2:53:ILE:HD13	24:D2:53:ILE:HG21	2.23	0.41
25:D3:17:VAL:HG22	25:D3:20:ARG:NH2	2.36	0.41
26:D4:99:LYS:O	26:D4:101:GLU:N	2.53	0.41
26:D4:127:LYS:O	26:D4:130:ALA:HB3	2.19	0.41
29:D7:31:TYR:CB	29:D7:81:ARG:HD3	2.94	0.41
39:L2:75:ILE:HD13	39:L2:75:ILE:HG21	1.76	0.41
39:L2:59:ALA:HB2	39:L2:78:ALA:HB2	2.02	0.41
40:L3:92:TYR:HA	40:L3:100:ARG:O	2.47	0.41
40:L3:372:THR:CG2	40:L3:373:PRO:HD2	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:150:LEU:HD12	41:L4:247:PHE:CE1	3.24	0.41
42:L5:211:LEU:HA	42:L5:211:LEU:HD23	2.08	0.41
42:L5:85:ARG:HD3	42:L5:86:TYR:OH	2.21	0.41
43:L6:133:GLU:O	43:L6:137:ASP:HB2	2.50	0.41
43:L6:51:ARG:NE	43:L6:158:TYR:CE1	3.72	0.41
43:L6:171:PRO:O	43:L6:173:MET:N	2.61	0.41
44:L7:234:GLU:C	44:L7:236:ILE:H	2.24	0.41
47:M0:148:VAL:HG12	47:M0:152:LEU:HG	2.95	0.41
47:M0:175:ASN:O	47:M0:176:LEU:CB	3.97	0.41
48:M1:96:PHE:HB3	48:M1:156:LYS:HG3	2.41	0.41
48:M1:29:ARG:CA	48:M1:32:ARG:NH2	3.28	0.41
49:M3:101:ARG:HH22	49:M3:112:ASN:ND2	2.56	0.41
49:M3:51:LEU:HA	49:M3:51:LEU:HD23	1.89	0.41
50:M4:115:PHE:O	50:M4:118:PHE:HB3	2.38	0.41
50:M4:99:TRP:O	50:M4:103:ILE:HG13	2.21	0.41
51:M5:47:LYS:O	51:M5:50:ARG:HB3	2.21	0.41
51:M5:84:PRO:HD2	85:5:44:U:OP1	166.65	0.41
52:M6:28:LEU:HD21	52:M6:88:VAL:HG13	2.06	0.41
53:M7:176:ILE:H	53:M7:176:ILE:HG13	1.74	0.41
54:M8:52:LEU:CD2	54:M8:104:LEU:HD21	3.40	0.41
57:N1:80:VAL:O	57:N1:80:VAL:HG22	2.55	0.41
58:N2:104:ARG:O	58:N2:105:LEU:HD12	2.21	0.41
36:1:2294:U:H5	59:N3:71:LYS:HZ3	1.65	0.41
61:N5:57:LEU:HG	61:N5:62:VAL:HG22	2.02	0.41
61:N5:96:LYS:HG3	61:N5:107:VAL:HB	2.25	0.41
63:N7:54:THR:H	63:N7:57:HIS:CD2	2.76	0.41
64:N8:81:LEU:HD23	64:N8:81:LEU:HA	2.19	0.41
65:N9:5:LYS:HG3	65:N9:6:ASN:H	2.80	0.41
68:O2:50:ILE:HG12	68:O2:50:ILE:O	3.13	0.41
43:L6:4:GLN:HB3	68:O2:75:LEU:HB2	2.02	0.41
69:O3:90:PRO:C	69:O3:92:LYS:N	2.69	0.41
72:O6:45:ARG:O	72:O6:45:ARG:HD3	2.73	0.41
73:O7:12:HIS:O	73:O7:12:HIS:CD2	2.96	0.41
79:Q3:8:VAL:HG22	85:5:1927:G:OP1	244.97	0.41
2:S0:129:ASP:O	2:S0:130:ALA:C	2.57	0.41
2:S0:77:SER:HB2	2:S0:124:THR:CG2	2.51	0.41
2:S0:9:LEU:HD13	2:S0:10:THR:N	2.34	0.41
4:S2:161:LYS:NZ	4:S2:164:SER:HA	2.36	0.41
4:S2:40:LYS:HE3	4:S2:40:LYS:HB2	4.56	0.41
5:S3:157:LEU:N	5:S3:157:LEU:HD12	2.35	0.41
6:S4:38:LEU:HA	6:S4:38:LEU:HD22	1.93	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1149:A:H5''	7:S5:101:GLY:H	1.86	0.41
7:S5:109:LYS:HE2	80:6:1474:G:OP2	362.95	0.41
1:2:386:G:H5''	10:S8:23:LYS:HE2	2.02	0.41
19:C7:33:ARG:NH2	34:SR:109:ASP:OD2	2.40	0.41
34:SR:258:THR:O	34:SR:275:ARG:NH1	3.43	0.41
36:1:1101:G:H1'	44:L7:105:LEU:HD23	2.02	0.41
36:1:1438:U:C4	36:1:1439:U:O4	2.73	0.41
36:1:1661:G:N2	36:1:1662:G:C2	2.89	0.41
36:1:1658:G:C4	36:1:1796:G:C5	3.09	0.41
36:1:2093:A:C6	36:1:2094:C:C4	3.08	0.41
36:1:2521:U:H5'	39:L2:31:THR:HG21	2.02	0.41
36:1:2764:C:H2'	36:1:2765:C:O4'	2.21	0.41
36:1:2943:G:C8	40:L3:2:SER:N	2.88	0.41
36:1:42:C:N3	36:1:92:G:N2	2.66	0.41
36:1:543:C:N4	36:1:548:G:H1	2.17	0.41
36:1:564:G:H2'	36:1:565:U:C6	2.55	0.41
36:1:425:G:C5	36:1:635:G:C2	3.09	0.41
1:2:1337:G:C5	1:2:1338:C:C5	3.08	0.41
1:2:1380:U:O4	1:2:1382:C:C2	2.74	0.41
1:2:1388:G:H2'	1:2:1389:A:H8	1.82	0.41
1:2:1435:U:N3	1:2:1436:G:N7	2.68	0.41
1:2:153:G:H2'	1:2:154:G:C8	2.56	0.41
1:2:1725:U:C4	1:2:1726:U:C4	3.09	0.41
1:2:1741:U:H2'	1:2:1742:C:C6	2.56	0.41
1:2:39:A:C4	1:2:467:G:N2	2.88	0.41
1:2:524:U:O2	1:2:527:A:H8	2.04	0.41
1:2:564:G:C2	1:2:578:U:O4'	2.74	0.41
1:2:717:A:H4'	1:2:718:C:H5'	2.02	0.41
1:2:748:G:O2'	11:S9:149:ARG:NH2	2.53	0.41
1:2:873:C:H2'	1:2:874:A:H8	1.86	0.41
36:1:8:C:H1'	38:4:152:G:N2	2.35	0.41
38:4:46:G:N2	38:4:58:G:C4	2.89	0.41
85:5:1081:U:HO2'	85:5:1082:U:H5''	1.86	0.41
85:5:1214:U:O2'	85:5:1215:U:H5'	2.20	0.41
85:5:1645:U:H6	85:5:1645:U:H5'	1.85	0.41
85:5:170:G:H2'	85:5:170:G:N3	2.36	0.41
85:5:1773:C:N4	85:5:1774:C:H41	2.19	0.41
85:5:1658:G:C4	85:5:1796:G:C5	3.09	0.41
85:5:1817:G:H1'	85:5:1818:U:H5'	2.02	0.41
85:5:1861:G:C5	85:5:1862:U:C4	3.09	0.41
85:5:1940:G:H2'	85:5:1941:C:O4'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:M7:139:TYR:CD2	85:5:2355:G:H4'	146.23	0.41
85:5:2665:U:C2	85:5:2706:G:N2	2.88	0.41
85:5:2890:A:N6	85:5:2913:C:H42	2.18	0.41
85:5:29:C:H4'	85:5:62:A:H4'	2.02	0.41
85:5:3053:G:C5	85:5:3054:U:C4	3.08	0.41
85:5:3071:U:H2'	85:5:3072:C:O4'	2.21	0.41
85:5:3223:A:C6	85:5:3224:G:C5	3.09	0.41
85:5:380:U:C2	85:5:390:G:N2	2.88	0.41
85:5:776:U:H5	85:5:2719:U:O2	2.04	0.41
80:6:310:C:C5	80:6:311:U:C5	3.08	0.41
80:6:386:G:C6	80:6:387:A:C6	3.09	0.41
80:6:622:A:H4'	80:6:623:A:O5'	2.21	0.41
80:6:869:A:C2	80:6:870:C:H1'	2.55	0.41
37:7:49:G:H4'	37:7:50:U:O5'	2.19	0.41
71:O5:89:ARG:HD2	38:8:38:U:C4	68.32	0.41
38:8:43:A:N1	38:8:44:A:C5	2.88	0.41
12:C0:69:THR:O	12:C0:73:VAL:HG23	2.21	0.41
14:C2:43:ARG:O	14:C2:47:GLU:HG3	3.64	0.41
15:C3:109:LYS:HE3	15:C3:109:LYS:HB3	1.90	0.41
15:C3:75:LEU:HG	15:C3:75:LEU:H	3.97	0.41
16:C4:110:LEU:HA	16:C4:110:LEU:HD23	2.29	0.41
18:C6:104:GLU:O	18:C6:107:LYS:HB3	3.08	0.41
19:C7:104:ASN:C	19:C7:106:THR:N	3.30	0.41
19:C7:27:ASP:O	19:C7:31:ASN:CG	2.59	0.41
19:C7:34:LEU:HD23	19:C7:34:LEU:HA	3.58	0.41
20:C8:90:ASN:O	20:C8:91:ASP:C	2.59	0.41
21:C9:117:SER:HB2	21:C9:123:ARG:HB3	2.27	0.41
24:D2:35:ILE:HA	24:D2:35:ILE:HD13	1.88	0.41
24:D2:67:GLY:O	24:D2:68:ARG:C	3.00	0.41
25:D3:43:PHE:O	25:D3:45:GLY:N	2.48	0.41
26:D4:14:SER:HB2	26:D4:21:LYS:HE3	2.03	0.41
26:D4:55:VAL:HG23	26:D4:55:VAL:O	4.39	0.41
28:D6:10:ARG:HB3	28:D6:11:ASN:H	4.07	0.41
28:D6:66:LYS:O	28:D6:68:TYR:CD2	4.39	0.41
1:2:1402:G:O3'	31:D9:54:LYS:HE3	2.21	0.41
39:L2:192:LYS:HB3	39:L2:193:ARG:CZ	2.50	0.41
39:L2:196:TRP:CE3	39:L2:197:PRO:HG3	2.56	0.41
39:L2:230:VAL:O	39:L2:233:GLN:N	2.39	0.41
39:L2:38:HIS:O	39:L2:93:LYS:HD2	2.21	0.41
40:L3:185:GLY:O	40:L3:186:GLY:C	2.59	0.41
40:L3:7:GLU:HG2	85:5:2915:U:C5	256.96	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:L4:358:THR:H	41:L4:358:THR:HG23	1.94	0.41
41:L4:99:MET:CE	41:L4:103:THR:H	2.33	0.41
36:1:592:A:H5'	43:L6:18:LEU:O	2.20	0.41
43:L6:41:ILE:HD13	43:L6:41:ILE:HG21	1.78	0.41
44:L7:188:ILE:HA	44:L7:188:ILE:HD13	2.11	0.41
36:1:119:U:C2	45:L8:138:HIS:CE1	3.09	0.41
45:L8:41:GLN:CA	45:L8:41:GLN:NE2	4.13	0.41
45:L8:82:LEU:HA	45:L8:82:LEU:HD12	2.04	0.41
36:1:2902:A:P	46:L9:170:LYS:HE3	2.60	0.41
47:M0:206:LEU:HD13	37:7:64:A:C8	342.37	0.41
48:M1:109:HIS:CD2	48:M1:123:PHE:H	2.39	0.41
48:M1:89:TYR:N	48:M1:89:TYR:CD2	2.88	0.41
49:M3:117:LYS:O	49:M3:120:GLN:N	2.94	0.41
51:M5:20:ARG:HB3	51:M5:20:ARG:HE	1.65	0.41
53:M7:131:ARG:HG3	53:M7:137:ASN:OD1	2.27	0.41
53:M7:17:ALA:HB2	53:M7:98:ALA:HB2	3.19	0.41
54:M8:11:LYS:HE3	54:M8:11:LYS:HB3	1.62	0.41
54:M8:147:ARG:NH2	85:5:670:C:OP1	163.19	0.41
36:1:1689:U:OP1	55:M9:64:ARG:NH1	2.53	0.41
59:N3:87:ARG:HH22	59:N3:137:VAL:HG21	1.85	0.41
59:N3:93:LEU:HA	60:N4:20:LEU:O	2.20	0.41
62:N6:76:LEU:HA	62:N6:76:LEU:HD22	1.89	0.41
62:N6:89:LYS:HG2	62:N6:90:VAL:H	1.86	0.41
64:N8:119:PRO:C	64:N8:121:VAL:H	2.23	0.41
64:N8:21:ARG:HD2	85:5:1369:A:H5'	185.60	0.41
64:N8:49:HIS:N	64:N8:50:PRO:CD	3.11	0.41
68:O2:124:GLY:O	68:O2:125:ARG:C	2.59	0.41
68:O2:43:ARG:HG2	68:O2:43:ARG:NH1	2.34	0.41
71:O5:86:ARG:HG2	71:O5:90:ARG:NH2	2.35	0.41
74:O8:66:ILE:HD13	74:O8:66:ILE:HG21	1.97	0.41
74:O8:65:LEU:CD2	74:O8:68:SER:HB2	2.71	0.41
78:Q2:25:VAL:HG11	78:Q2:70:LEU:HD13	2.85	0.41
2:S0:55:GLU:O	2:S0:58:VAL:HB	2.20	0.41
3:S1:176:VAL:C	3:S1:178:GLY:H	2.24	0.41
3:S1:28:GLU:C	3:S1:29:TRP:CD1	4.67	0.41
4:S2:158:THR:HG21	4:S2:221:THR:HG22	2.02	0.41
4:S2:187:LEU:HG	4:S2:187:LEU:O	2.82	0.41
2:S0:119:ARG:HD2	4:S2:240:LEU:HD23	3.36	0.41
4:S2:35:TRP:O	4:S2:46:LYS:HE3	6.31	0.41
5:S3:115:ILE:HG13	5:S3:115:ILE:H	4.07	0.41
5:S3:71:LEU:HB3	12:C0:20:VAL:HG11	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S3:51:ARG:HA	5:S3:89:GLU:HB2	3.20	0.41
5:S3:53:THR:HB	5:S3:94:ARG:HD3	5.29	0.41
6:S4:109:PHE:HD1	6:S4:109:PHE:HA	3.15	0.41
6:S4:180:LEU:HD22	6:S4:181:VAL:H	1.85	0.41
7:S5:35:GLN:C	7:S5:37:GLN:H	3.51	0.41
8:S6:121:LEU:O	8:S6:122:GLU:C	2.70	0.41
8:S6:55:GLY:HA3	8:S6:63:MET:HE3	2.67	0.41
9:S7:14:THR:O	9:S7:18:LEU:HD12	2.21	0.41
10:S8:169:ILE:HD13	10:S8:169:ILE:HA	2.04	0.41
5:S3:124:ARG:HD3	35:SM:124:GLN:HA	2.01	0.41
34:SR:297:ASP:C	34:SR:299:GLN:H	2.46	0.41
34:SR:84:SER:HB3	34:SR:86:ASP:OD1	2.20	0.41
36:1:1667:A:N6	36:1:1668:G:O6	2.54	0.41
36:1:2355:G:H4'	53:M7:139:TYR:CD2	2.56	0.41
36:1:1131:G:C4	36:1:2373:A:C2	3.09	0.41
36:1:2381:G:C2	36:1:2382:G:C8	3.09	0.41
36:1:2396:G:H3'	36:1:2398:A:H5'	2.03	0.41
36:1:2510:U:O2'	36:1:2511:A:P	2.79	0.41
36:1:2631:U:C2	36:1:2632:G:C8	3.08	0.41
36:1:2632:G:H2'	36:1:2633:U:O4'	2.21	0.41
36:1:2781:U:H2'	36:1:2782:U:O4'	2.20	0.41
36:1:2802:A:C8	78:Q2:56:PRO:HA	2.55	0.41
36:1:2837:A:C2	36:1:2850:G:C2	3.09	0.41
36:1:3001:C:HO2'	40:L3:118:PHE:HE2	1.65	0.41
36:1:321:C:H2'	36:1:322:U:O4'	2.21	0.41
36:1:3115:C:O2	92:1:3558:OHX:N1	2.54	0.41
36:1:996:A:C6	36:1:1054:A:C8	3.08	0.41
1:2:1171:G:H2'	1:2:1172:A:O4'	2.21	0.41
1:2:1270:A:O3'	1:2:1271:G:H8	2.03	0.41
1:2:1314:A:H2'	1:2:1315:C:H5'	2.03	0.41
1:2:1320:A:H5'	1:2:1321:C:OP2	2.21	0.41
1:2:142:G:C5	1:2:266:A:C5	3.09	0.41
1:2:1571:G:C6	1:2:1572:C:C5	3.09	0.41
1:2:734:G:OP2	92:2:2051:OHX:N1	2.54	0.41
1:2:207:U:O4	1:2:257:A:N6	2.53	0.41
1:2:362:G:C6	1:2:383:G:N1	2.89	0.41
1:2:510:G:C2	1:2:511:A:C8	3.08	0.41
1:2:560:U:C2	1:2:586:G:C2	3.08	0.41
1:2:28:A:C6	1:2:599:A:C6	3.08	0.41
1:2:28:A:N6	1:2:599:A:N6	2.69	0.41
1:2:622:A:C4'	1:2:623:A:OP1	2.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:683:C:H42	1:2:721:G:H1	1.69	0.41
1:2:945:C:H2'	1:2:946:A:O4'	2.21	0.41
1:2:979:U:H3	1:2:991:G:H1	1.69	0.41
85:5:1015:U:OP2	85:5:1016:C:OP2	2.39	0.41
85:5:1047:A:C6	85:5:1048:A:C6	3.09	0.41
85:5:1056:U:O2'	37:7:82:G:H4'	2.20	0.41
85:5:1255:C:H2'	85:5:1256:G:H8	1.85	0.41
85:5:1357:G:H2'	85:5:1358:C:C6	2.56	0.41
85:5:1554:U:O2'	85:5:1581:C:H2'	2.21	0.41
85:5:1595:U:C2	85:5:1596:C:C6	3.08	0.41
85:5:1742:U:H2'	85:5:1743:G:C8	2.55	0.41
85:5:191:U:H2'	85:5:192:C:C6	2.56	0.41
85:5:276:U:H2'	85:5:277:G:C8	2.56	0.41
85:5:2774:C:H2'	85:5:2775:U:C6	2.55	0.41
52:M6:156:LEU:HB3	85:5:3243:A:N7	266.42	0.41
85:5:3307:A:C4	85:5:3308:C:C5	3.08	0.41
85:5:3335:A:N7	85:5:3370:A:O2'	2.45	0.41
85:5:3365:U:H2'	85:5:3366:G:C8	2.56	0.41
85:5:722:G:H1	85:5:748:U:H3	1.68	0.41
80:6:1039:A:O2'	80:6:1040:G:H8	2.04	0.41
80:6:139:C:C2	80:6:176:C:C2	3.09	0.41
80:6:761:G:N7	92:6:1938:OHX:N5	2.68	0.41
80:6:489:C:OP2	80:6:489:C:H3'	2.20	0.41
80:6:547:U:H2'	80:6:548:G:O4'	2.19	0.41
80:6:643:G:C2	80:6:692:C:N3	2.89	0.41
80:6:773:C:H6	80:6:773:C:O5'	2.03	0.41
80:6:88:U:H2'	80:6:89:G:C8	2.55	0.41
38:8:140:G:H2'	38:8:141:C:O4'	2.20	0.41
38:8:65:A:C6	38:8:66:A:C4	3.08	0.41
12:C0:27:PHE:CD1	12:C0:40:LEU:HD23	2.56	0.41
13:C1:96:LYS:HZ2	80:6:374:U:P	347.20	0.41
15:C3:61:THR:HB	80:6:959:U:O2	350.30	0.41
18:C6:64:ASP:OD2	18:C6:64:ASP:N	3.35	0.41
20:C8:127:HIS:CD2	20:C8:133:VAL:HG21	3.01	0.41
21:C9:52:GLY:C	21:C9:54:PHE:N	2.72	0.41
23:D1:19:ALA:HA	23:D1:71:ARG:HH12	1.85	0.41
24:D2:47:ILE:HB	24:D2:48:GLY:H	2.73	0.41
24:D2:52:TYR:CE2	24:D2:53:ILE:O	3.64	0.41
25:D3:125:VAL:HG12	25:D3:126:LYS:CG	2.46	0.41
27:D5:71:ILE:CG2	27:D5:76:ALA:HB2	3.50	0.41
30:D8:13:ILE:O	30:D8:14:LYS:HD2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D8:26:THR:HB	30:D8:44:VAL:HG22	2.02	0.41
40:L3:187:SER:O	40:L3:188:ILE:C	2.57	0.41
36:1:1382:G:P	41:L4:188:ARG:HH12	2.36	0.41
42:L5:119:TYR:HE1	42:L5:133:GLU:O	2.04	0.41
42:L5:3:PHE:CD2	42:L5:3:PHE:N	2.88	0.41
43:L6:40:LEU:N	43:L6:52:VAL:O	2.55	0.41
44:L7:108:LEU:HA	44:L7:108:LEU:HD23	1.75	0.41
44:L7:145:ARG:HA	44:L7:185:ILE:CD1	2.60	0.41
44:L7:219:LYS:O	44:L7:221:LYS:N	2.42	0.41
45:L8:133:LYS:HA	45:L8:133:LYS:HD3	1.94	0.41
45:L8:72:PRO:HA	45:L8:73:PRO:HD3	1.90	0.41
46:L9:183:HIS:ND1	46:L9:183:HIS:O	2.54	0.41
46:L9:58:HIS:CD2	56:N0:151:PRO:HD2	3.24	0.41
47:M0:76:MET:HE2	47:M0:148:VAL:HA	2.02	0.41
47:M0:70:ILE:O	47:M0:71:CYS:C	2.75	0.41
48:M1:165:GLN:HB3	48:M1:166:LYS:H	1.51	0.41
50:M4:105:GLN:NE2	50:M4:109:ARG:HH21	3.31	0.41
50:M4:16:GLU:HG2	50:M4:19:ARG:HB2	2.03	0.41
51:M5:172:ARG:O	51:M5:173:GLY:C	2.58	0.41
36:1:287:G:OP1	51:M5:179:LYS:HE3	2.20	0.41
51:M5:6:TYR:O	51:M5:10:LEU:HB2	3.23	0.41
53:M7:69:ARG:NH2	85:5:2992:U:H1'	191.62	0.41
55:M9:143:ILE:HG13	85:5:2093:A:P	250.75	0.41
56:N0:136:LYS:C	56:N0:137:ARG:HD2	4.97	0.41
58:N2:49:ASN:C	58:N2:51:GLY:H	2.23	0.41
58:N2:99:LYS:O	58:N2:102:GLU:N	2.65	0.41
60:N4:20:LEU:HD23	60:N4:20:LEU:C	2.40	0.41
61:N5:138:ARG:HG3	61:N5:138:ARG:O	2.20	0.41
62:N6:100:HIS:CE1	62:N6:102:SER:HB3	3.24	0.41
62:N6:62:SER:O	62:N6:64:LYS:N	2.54	0.41
64:N8:75:LEU:C	64:N8:77:LYS:N	3.04	0.41
65:N9:14:ARG:O	65:N9:18:ARG:HG2	5.05	0.41
65:N9:7:HIS:C	65:N9:7:HIS:CD2	2.94	0.41
66:O0:63:SER:O	66:O0:64:LYS:C	3.11	0.41
67:O1:50:ARG:NE	67:O1:90:PHE:CZ	4.38	0.41
62:N6:127:GLU:C	71:O5:16:GLN:HE21	47.22	0.41
72:O6:60:LEU:HD11	72:O6:68:ARG:NE	2.36	0.41
75:O9:17:LYS:O	75:O9:20:ASN:N	2.82	0.41
77:Q1:13:LEU:HD11	77:Q1:17:ARG:CZ	2.51	0.41
4:S2:67:GLN:HA	4:S2:70:ASP:CB	2.51	0.41
4:S2:90:THR:O	4:S2:92:ALA:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S3:178:ARG:HE	5:S3:178:ARG:N	2.18	0.41
6:S4:73:ASP:OD2	6:S4:122:LYS:NZ	2.52	0.41
7:S5:113:ILE:H	7:S5:113:ILE:HG13	1.62	0.41
8:S6:164:LYS:O	8:S6:166:GLU:N	2.54	0.41
11:S9:66:ASP:CG	11:S9:67:PRO:HD2	2.41	0.41
35:SM:70:ASN:O	35:SM:73:SER:OG	3.71	0.41
35:SM:83:LYS:HB3	35:SM:83:LYS:HE3	1.77	0.41
34:SR:126:SER:OG	34:SR:127:ARG:N	2.54	0.41
36:1:1012:G:N1	36:1:1013:G:C5	2.88	0.41
36:1:1517:G:C5	36:1:1518:U:C5	3.09	0.41
36:1:1650:G:H2'	36:1:1651:U:H6	1.85	0.41
36:1:174:C:H2'	36:1:175:C:H6	1.86	0.41
36:1:2419:A:C6	36:1:2420:C:C4	3.09	0.41
36:1:2565:U:C2	36:1:2566:C:C5	3.09	0.41
36:1:2762:A:C1'	36:1:2800:G:C6	3.04	0.41
36:1:2890:A:N1	36:1:2913:C:N3	2.69	0.41
36:1:2916:U:H5	36:1:2935:U:HO2'	1.68	0.41
36:1:3196:U:O4'	36:1:3197:G:C6	2.74	0.41
36:1:3232:G:C5	36:1:3233:C:C5	3.09	0.41
36:1:3256:G:C6	36:1:3257:C:C4	3.09	0.41
92:1:3507:OHX:N3	92:1:3691:OHX:N1	2.69	0.41
36:1:435:C:H6	36:1:435:C:O5'	2.04	0.41
36:1:730:C:C2	36:1:731:U:C5	3.09	0.41
1:2:1456:U:O2'	1:2:1457:G:OP1	2.37	0.41
1:2:169:A:OP1	8:S6:137:ARG:NH2	2.53	0.41
1:2:212:U:C2	1:2:254:A:C2	3.09	0.41
1:2:45:U:H2'	1:2:45:U:H6	1.61	0.41
1:2:538:A:C8	1:2:543:C:N4	2.85	0.41
1:2:625:C:C4	1:2:626:U:O4	2.74	0.41
1:2:627:C:H2'	1:2:628:G:O4'	2.21	0.41
1:2:818:U:H2'	1:2:819:U:C6	2.56	0.41
37:3:106:U:O4	37:3:107:C:N4	2.54	0.41
38:4:81:U:O2	38:4:82:U:C5	2.74	0.41
85:5:1236:G:N2	85:5:1244:A:OP1	2.54	0.41
85:5:1283:C:N4	85:5:1284:C:N4	2.69	0.41
85:5:1632:A:C4	85:5:1633:C:C5	3.09	0.41
85:5:1676:A:C6	85:5:1677:G:N7	2.89	0.41
85:5:169:U:O2'	85:5:170:G:H8	2.04	0.41
85:5:1714:A:C2	85:5:1731:A:C4	3.09	0.41
85:5:1803:C:H2'	85:5:1804:A:C8	2.56	0.41
85:5:1843:C:C2	85:5:1844:C:C5	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:2520:A:O2'	85:5:2521:U:H5'	2.21	0.41
85:5:3245:A:H2	85:5:3246:G:N1	2.19	0.41
67:O1:103:GLY:HA2	85:5:3325:G:H5''	178.86	0.41
85:5:370:U:O4	85:5:371:G:C6	2.74	0.41
85:5:955:U:H2'	85:5:956:U:H6	1.86	0.41
80:6:1028:C:C4	80:6:1030:A:H1'	2.55	0.41
80:6:1116:A:C6	80:6:1117:U:C2	3.08	0.41
80:6:1203:A:C4	80:6:1556:A:C2	3.09	0.41
80:6:1704:U:O2	80:6:1704:U:H2'	2.20	0.41
80:6:214:G:O2'	80:6:251:A:N6	2.53	0.41
80:6:517:U:C4	80:6:518:A:N7	2.89	0.41
80:6:606:A:C5	80:6:608:U:C4	3.09	0.41
80:6:653:C:N3	80:6:677:G:N2	2.66	0.41
14:C2:59:LEU:HA	14:C2:87:PRO:HB2	2.03	0.41
15:C3:33:VAL:O	15:C3:37:ILE:N	2.67	0.41
15:C3:55:ARG:HH11	15:C3:55:ARG:HD2	1.74	0.41
20:C8:16:ARG:HH21	20:C8:21:ASN:ND2	2.18	0.41
20:C8:88:ARG:O	20:C8:98:TYR:O	2.79	0.41
21:C9:53:TRP:CG	21:C9:54:PHE:N	3.23	0.41
22:D0:103:ILE:HD13	22:D0:103:ILE:O	2.20	0.41
23:D1:66:ASP:O	23:D1:67:ASP:C	2.71	0.41
24:D2:18:GLU:HG3	24:D2:69:LEU:HB3	3.18	0.41
1:2:571:G:O2'	25:D3:109:ARG:HD3	2.20	0.41
1:2:601:A:OP1	25:D3:110:LYS:HD3	2.21	0.41
25:D3:13:ARG:HD2	25:D3:13:ARG:HH11	1.64	0.41
20:C8:57:ARG:NH1	27:D5:40:VAL:HG12	2.36	0.41
40:L3:110:LEU:HD23	40:L3:130:PHE:CD2	3.02	0.41
40:L3:209:PHE:HE1	40:L3:340:LYS:HB3	4.96	0.41
41:L4:131:VAL:O	41:L4:133:SER:N	2.53	0.41
41:L4:197:ARG:HD2	41:L4:197:ARG:HH11	1.52	0.41
41:L4:152:VAL:HG12	41:L4:251:THR:HG22	3.94	0.41
41:L4:334:PHE:CD1	41:L4:339:LEU:HD12	3.68	0.41
37:3:7:G:O2'	42:L5:72:ASP:OD1	2.39	0.41
43:L6:100:LYS:HE3	43:L6:100:LYS:HB2	3.47	0.41
43:L6:81:ALA:O	43:L6:84:VAL:HG23	4.41	0.41
43:L6:9:TRP:HB2	85:5:1354:G:C4	172.10	0.41
44:L7:86:VAL:HG13	44:L7:136:TYR:HB3	2.02	0.41
44:L7:40:LYS:HE2	44:L7:170:GLU:OE1	3.45	0.41
44:L7:219:LYS:HD3	85:5:1169:A:H5''	251.74	0.41
45:L8:132:VAL:HG22	45:L8:132:VAL:H	3.90	0.41
45:L8:205:ALA:O	45:L8:208:GLU:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:L8:40:VAL:HG23	45:L8:40:VAL:H	1.64	0.41
45:L8:46:LEU:O	45:L8:49:TYR:N	2.64	0.41
45:L8:57:ARG:O	45:L8:61:GLN:N	2.77	0.41
47:M0:10:ARG:HD3	47:M0:11:TYR:CE1	3.64	0.41
47:M0:48:LEU:HD23	47:M0:48:LEU:HA	1.94	0.41
48:M1:89:TYR:HB3	48:M1:169:ALA:CB	2.51	0.41
49:M3:115:ARG:NH1	49:M3:147:ILE:HG12	2.36	0.41
50:M4:40:ASP:OD1	50:M4:41:GLN:N	2.53	0.41
51:M5:140:LYS:HB3	51:M5:144:ARG:NE	2.36	0.41
51:M5:144:ARG:HD3	51:M5:144:ARG:HH11	1.65	0.41
54:M8:69:ARG:C	54:M8:71:LEU:H	2.78	0.41
55:M9:106:LEU:HD21	55:M9:123:LEU:HB2	2.40	0.41
56:N0:139:TYR:CD2	56:N0:140:VAL:HG23	2.60	0.41
57:N1:43:LYS:HG3	57:N1:58:GLN:HE22	1.85	0.41
61:N5:125:ARG:HH12	85:5:1610:G:P	103.43	0.41
63:N7:105:SER:HA	63:N7:108:GLU:CG	3.53	0.41
63:N7:56:LYS:H	63:N7:56:LYS:HG3	1.61	0.41
63:N7:62:VAL:O	63:N7:66:THR:OG1	2.62	0.41
65:N9:23:LYS:CB	65:N9:24:PRO:HD3	2.57	0.41
67:O1:39:PHE:CE2	67:O1:43:HIS:CD2	4.43	0.41
68:O2:109:LEU:HD21	68:O2:122:PRO:HB3	3.30	0.41
68:O2:67:SER:O	68:O2:69:SER:N	3.02	0.41
68:O2:74:PHE:HB2	68:O2:92:TYR:HD1	2.10	0.41
69:O3:51:TYR:O	69:O3:51:TYR:CG	2.74	0.41
70:O4:20:ILE:HD11	70:O4:34:HIS:CE1	2.56	0.41
72:O6:86:LYS:NZ	72:O6:89:GLU:OE2	3.12	0.41
73:O7:87:SER:O	73:O7:88:ALA:HB3	2.21	0.41
76:Q0:92:ASP:O	76:Q0:105:PRO:HG3	2.21	0.41
39:L2:112:ILE:HG12	79:Q3:79:VAL:HG22	4.62	0.41
3:S1:36:SER:HB3	3:S1:231:LEU:O	3.45	0.41
4:S2:225:LEU:HA	4:S2:225:LEU:HD23	1.86	0.41
6:S4:162:ILE:HG22	6:S4:163:ASP:H	1.86	0.41
6:S4:195:ILE:HG22	6:S4:196:VAL:N	2.94	0.41
10:S8:137:LYS:HE3	80:6:191:C:H42	266.47	0.41
11:S9:130:THR:HA	11:S9:142:ASN:HB2	2.38	0.41
35:SM:46:LYS:NZ	35:SM:46:LYS:HB2	2.36	0.41
34:SR:117:LYS:H	34:SR:117:LYS:HD2	1.86	0.41
34:SR:29:GLN:HB3	34:SR:29:GLN:HE21	1.72	0.41
34:SR:9:LEU:HA	34:SR:313:TRP:CD1	2.66	0.41
36:1:1474:A:C6	36:1:1475:A:N7	2.89	0.41
36:1:1580:A:H5'	36:1:2522:G:C6	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1865:A:O2'	36:1:1866:C:H5'	2.20	0.41
36:1:1907:C:H3'	36:1:1908:A:H8	1.86	0.41
36:1:1952:G:H3'	36:1:1953:G:H5''	2.02	0.41
36:1:2112:U:O5'	36:1:2112:U:H6	2.03	0.41
36:1:2209:U:C4'	36:1:2210:G:OP2	2.69	0.41
36:1:2564:G:C6	36:1:2565:U:C4	3.09	0.41
36:1:2564:G:N2	36:1:2578:U:H1'	2.36	0.41
36:1:2877:G:O6	92:1:3703:OHX:N5	2.54	0.41
36:1:3024:A:H3'	36:1:3025:C:C5	2.56	0.41
92:1:3525:OHX:N3	92:1:3563:OHX:N6	2.69	0.41
36:1:437:G:H1	36:1:622:A:H61	1.66	0.41
36:1:692:A:N3	36:1:693:A:C8	2.89	0.41
36:1:815:G:C6	36:1:906:A:C4	3.09	0.41
36:1:359:U:C2	36:1:920:A:C6	3.09	0.41
1:2:1047:G:O6	92:2:2050:OHX:N6	2.53	0.41
1:2:1441:G:C2	1:2:1442:C:C5	3.08	0.41
1:2:1527:U:H2'	1:2:1528:A:H8	1.85	0.41
1:2:1602:C:H2'	1:2:1603:C:H6	1.86	0.41
1:2:1720:G:N2	1:2:1721:U:O2	2.53	0.41
1:2:190:C:N3	1:2:196:G:C6	2.89	0.41
1:2:204:G:C6	1:2:205:U:N3	2.89	0.41
1:2:226:A:H2'	1:2:227:U:H5'	2.03	0.41
1:2:742:U:H2'	1:2:743:A:H8	1.85	0.41
1:2:834:U:H5''	55:M9:172:ARG:HH11	1.82	0.41
1:2:794:A:H1'	1:2:841:G:H21	1.85	0.41
1:2:866:C:H2'	1:2:867:A:H8	1.84	0.41
38:4:14:C:N4	38:4:15:G:C6	2.89	0.41
85:5:1122:U:C4	85:5:1123:U:C5	3.09	0.41
85:5:1317:A:C4	85:5:1319:G:N7	2.89	0.41
85:5:136:G:C2	85:5:137:G:C8	3.09	0.41
85:5:1878:G:HO2'	85:5:1879:A:P	2.43	0.41
85:5:2223:A:C6	85:5:2224:A:C6	3.09	0.41
85:5:2390:A:H2'	85:5:2391:G:O4'	2.21	0.41
85:5:2667:A:C2	85:5:2690:G:C4	3.09	0.41
85:5:2816:G:C8	85:5:2869:U:H3'	2.56	0.41
85:5:2822:U:H2'	85:5:2823:G:C8	2.52	0.41
85:5:2842:U:C6	85:5:2843:U:H5	2.38	0.41
85:5:2841:G:C5	85:5:2844:C:C4	3.09	0.41
85:5:3155:U:H6	85:5:3155:U:O5'	2.04	0.41
85:5:3243:A:O2'	85:5:3244:A:H8	2.03	0.41
85:5:1538:G:OP2	92:5:3509:OHX:N2	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:N8:23:GLY:O	92:5:3511:OHX:N2	177.99	0.41
85:5:61:A:H2'	85:5:62:A:O4'	2.20	0.41
85:5:656:A:H2'	85:5:657:A:H8	1.83	0.41
49:M3:7:LEU:HD13	85:5:796:U:H1'	158.68	0.41
80:6:1110:G:N1	80:6:1136:U:O2	2.54	0.41
80:6:1114:G:HO2'	80:6:1115:U:P	2.42	0.41
17:C5:102:PHE:CZ	80:6:1241:G:H5''	384.60	0.41
20:C8:135:GLY:HA3	80:6:1558:U:H4'	363.93	0.41
80:6:1695:G:H21	80:6:1706:C:N4	2.19	0.41
80:6:249:U:H3'	80:6:250:C:H5'	2.02	0.41
80:6:27:U:O2'	80:6:28:A:H5'	2.21	0.41
80:6:313:U:C4	80:6:1118:G:C2	3.08	0.41
80:6:102:U:O4	80:6:360:A:H2'	2.21	0.41
24:D2:32:LYS:NZ	80:6:638:U:OP2	363.13	0.41
80:6:647:G:H21	80:6:687:G:H22	1.66	0.41
80:6:913:G:H3'	80:6:914:G:C5'	2.49	0.41
28:D6:70:LYS:HE3	80:6:931:C:P	316.92	0.41
37:7:119:U:H2'	37:7:120:C:H6	1.86	0.41
38:8:157:U:O2'	38:8:158:U:H5'	2.20	0.41
14:C2:106:ILE:O	14:C2:112:ALA:HB3	4.17	0.41
14:C2:75:VAL:O	14:C2:79:ALA:N	2.77	0.41
15:C3:116:ILE:HG21	15:C3:116:ILE:HD13	1.77	0.41
1:2:870:A:C1'	16:C4:122:PRO:HB3	2.51	0.41
17:C5:65:LEU:O	92:C5:201:OHX:N4	2.54	0.41
18:C6:37:THR:HA	18:C6:49:TYR:OH	2.73	0.41
18:C6:73:GLY:HA3	80:6:1608:U:O3'	396.27	0.41
18:C6:83:GLN:O	18:C6:87:LYS:HG3	2.20	0.41
20:C8:65:GLU:O	20:C8:69:ILE:HG13	2.21	0.41
20:C8:87:ASN:OD1	20:C8:88:ARG:HB2	2.21	0.41
21:C9:10:ALA:O	21:C9:14:PHE:N	3.11	0.41
22:D0:26:LEU:HD21	22:D0:114:VAL:HG13	2.20	0.41
22:D0:23:ARG:HD3	22:D0:92:ASP:OD2	2.21	0.41
23:D1:34:ILE:HG23	23:D1:34:ILE:HD12	2.11	0.41
40:L3:43:LEU:HG	40:L3:181:ILE:HG21	2.27	0.41
40:L3:250:ALA:HB3	85:5:2880:U:O2	223.23	0.41
36:1:693:A:H4'	41:L4:234:ASN:OD1	2.20	0.41
41:L4:34:ILE:HG21	41:L4:34:ILE:HD13	1.85	0.41
41:L4:82:THR:C	41:L4:84:ARG:H	2.48	0.41
42:L5:122:VAL:C	42:L5:124:GLU:N	3.79	0.41
42:L5:256:THR:C	42:L5:258:LYS:H	2.24	0.41
43:L6:173:MET:O	43:L6:174:LEU:C	2.59	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:L7:110:ARG:O	44:L7:111:ILE:C	2.95	0.41
46:L9:41:ILE:O	46:L9:42:ASP:C	2.58	0.41
47:M0:17:TYR:CE1	47:M0:98:ARG:HD3	2.55	0.41
48:M1:94:ARG:HB2	48:M1:95:ASN:H	1.75	0.41
49:M3:36:ARG:O	49:M3:37:ASN:C	2.82	0.41
49:M3:8:PRO:HD3	54:M8:164:ARG:CB	3.35	0.41
50:M4:13:ARG:HH11	50:M4:13:ARG:HD2	1.90	0.41
51:M5:140:LYS:O	51:M5:142:ILE:N	3.23	0.41
51:M5:164:LEU:HA	51:M5:164:LEU:HD23	2.76	0.41
36:1:117:U:OP1	51:M5:2:GLY:N	2.53	0.41
53:M7:70:THR:HG23	53:M7:73:GLY:H	3.10	0.41
55:M9:78:TYR:HA	55:M9:81:ARG:HD3	2.02	0.41
55:M9:91:SER:H	55:M9:91:SER:HG	1.23	0.41
56:N0:40:ARG:HA	56:N0:43:TYR:HB3	2.02	0.41
36:1:1682:U:C6	58:N2:85:LYS:HG2	2.56	0.41
61:N5:63:ILE:HG23	61:N5:63:ILE:O	2.41	0.41
63:N7:135:ARG:HE	85:5:1807:G:H5''	196.30	0.41
63:N7:17:ARG:H	70:O4:74:ARG:HB2	1.86	0.41
70:O4:58:ARG:HD2	70:O4:58:ARG:HA	1.87	0.41
72:O6:40:VAL:O	72:O6:44:VAL:HG23	2.20	0.41
36:1:2819:A:HO2'	98:P:101:8AN:C2	2.34	0.41
76:Q0:127:LEU:HD22	76:Q0:128:LYS:N	2.35	0.41
78:Q2:38:GLN:HE21	78:Q2:41:ARG:HB2	2.68	0.41
39:L2:171:GLY:O	79:Q3:68:ALA:HB2	2.21	0.41
79:Q3:66:GLY:HA3	79:Q3:71:VAL:O	3.35	0.41
79:Q3:84:ARG:HA	79:Q3:87:ARG:CZ	3.40	0.41
2:S0:77:SER:HB2	2:S0:124:THR:HG21	2.01	0.41
3:S1:131:ASP:O	3:S1:180:THR:HG23	2.20	0.41
4:S2:116:LYS:HD2	4:S2:117:THR:H	1.86	0.41
4:S2:121:VAL:HB	35:SM:120:GLU:OE1	2.21	0.41
1:2:1281:U:H1'	4:S2:209:ASN:HD21	1.86	0.41
4:S2:234:PRO:O	4:S2:235:LEU:CB	2.90	0.41
8:S6:35:GLU:HA	8:S6:50:PHE:O	2.21	0.41
9:S7:17:GLU:O	9:S7:21:ALA:N	2.84	0.41
9:S7:24:PHE:HE1	9:S7:38:LEU:HD21	1.85	0.41
9:S7:30:SER:HB3	9:S7:34:LEU:HD12	2.02	0.41
9:S7:35:LYS:O	9:S7:37:GLU:HG2	2.21	0.41
11:S9:109:LEU:HD22	11:S9:113:VAL:HG23	2.03	0.41
11:S9:135:ALA:HA	11:S9:139:GLN:O	3.06	0.41
36:1:1199:C:C2	36:1:1200:A:C6	3.09	0.41
36:1:123:A:H61	36:1:149:U:H3	1.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1336:U:OP2	92:1:3578:OHX:N4	2.54	0.41
36:1:1377:G:C2	36:1:1378:U:C6	3.08	0.41
36:1:1504:A:N6	36:1:1505:C:C4	2.89	0.41
36:1:1533:U:O2'	36:1:1534:A:H5'	2.21	0.41
36:1:1557:A:C5	36:1:1559:A:C6	3.09	0.41
36:1:1633:C:H2'	36:1:1634:G:C8	2.54	0.41
36:1:1710:C:C2	36:1:1735:G:N2	2.89	0.41
36:1:1918:C:N4	36:1:1919:G:C6	2.89	0.41
36:1:2416:U:H2'	36:1:2417:U:H6	1.82	0.41
36:1:2438:A:H2'	36:1:2439:A:H8	1.85	0.41
36:1:2533:G:C6	36:1:2534:G:C2	3.09	0.41
36:1:2553:U:O2	36:1:2553:U:H2'	2.21	0.41
36:1:2419:A:H1'	36:1:2804:A:O4'	2.21	0.41
36:1:2885:C:N3	36:1:2886:U:C4	2.89	0.41
36:1:3182:G:C5	36:1:3183:A:N7	2.89	0.41
36:1:523:A:N6	36:1:570:A:C2	2.89	0.41
36:1:589:A:C8	36:1:610:G:C5	3.08	0.41
1:2:1294:U:H2'	1:2:1296:A:OP2	2.21	0.41
1:2:1348:C:H5''	18:C6:28:LEU:HD22	2.02	0.41
1:2:1535:U:H2'	1:2:1536:G:O4'	2.21	0.41
1:2:1664:A:H61	1:2:1703:G:H1'	1.86	0.41
1:2:1794:G:N2	1:2:1799:C:H42	2.20	0.41
1:2:1277:G:C6	92:2:1955:OHX:N4	2.89	0.41
1:2:69:G:C2	1:2:70:C:C2	3.09	0.41
1:2:713:G:N3	1:2:713:G:H2'	2.36	0.41
1:2:775:U:H2'	1:2:776:A:O4'	2.20	0.41
1:2:969:G:C2	1:2:970:G:H1'	2.56	0.41
36:1:16:A:C4	38:4:144:G:N2	2.89	0.41
38:4:65:A:C2	38:4:96:A:C5	3.09	0.41
38:4:79:A:H3'	38:4:80:A:O4'	2.21	0.41
85:5:1193:A:H2'	85:5:1194:G:O4'	2.21	0.41
43:L6:10:TYR:HB2	85:5:1353:U:O2	171.01	0.41
85:5:1502:C:N3	85:5:1513:G:O6	2.54	0.41
85:5:1640:G:C2'	85:5:1641:U:H5'	2.51	0.41
85:5:198:A:N3	85:5:218:G:O2'	2.52	0.41
85:5:241:G:H2'	85:5:242:C:C6	2.56	0.41
39:L2:70:ARG:NH2	85:5:2522:G:C6	175.46	0.41
85:5:2684:C:N4	85:5:2685:C:N4	2.69	0.41
85:5:2651:G:C2	85:5:2796:G:C4	3.09	0.41
85:5:2925:C:C2'	85:5:2926:A:H5'	2.51	0.41
85:5:2904:U:OP1	92:5:3542:OHX:N5	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
92:5:3555:OHX:N5	92:5:3703:OHX:N5	2.69	0.41
85:5:1541:G:OP2	92:5:3591:OHX:N2	2.54	0.41
85:5:62:A:C6	85:5:63:A:C6	3.09	0.41
85:5:68:C:C4	85:5:69:C:C5	3.09	0.41
85:5:722:G:C2'	85:5:723:U:H5'	2.51	0.41
85:5:739:G:H2'	85:5:740:G:H8	1.86	0.41
85:5:945:C:H2'	85:5:946:U:H6	1.86	0.41
80:6:1045:C:C4	80:6:1074:G:C6	3.09	0.41
80:6:108:A:N6	80:6:109:G:O6	2.54	0.41
80:6:1460:A:H3'	80:6:1460:A:N3	2.36	0.41
80:6:1550:A:C6	80:6:1551:U:C4	3.09	0.41
31:D9:14:TYR:OH	80:6:1553:G:O2'	402.80	0.41
80:6:1748:G:C2	80:6:1749:A:C4	3.08	0.41
80:6:1777:G:H2'	80:6:1778:G:C8	2.56	0.41
13:C1:133:LYS:HE3	80:6:324:U:OP1	292.83	0.41
80:6:523:G:O2'	80:6:529:A:N6	2.54	0.41
80:6:641:G:C4	80:6:642:G:C8	3.09	0.41
80:6:933:A:C6	80:6:935:U:N3	2.89	0.41
80:6:995:A:C2	80:6:1010:C:N3	2.89	0.41
38:8:129:C:H2'	38:8:130:C:C6	2.55	0.41
38:8:91:C:C2	38:8:92:A:C8	3.09	0.41
38:8:63:G:N2	38:8:97:A:N1	2.69	0.41
12:C0:52:LYS:HG2	12:C0:52:LYS:H	1.61	0.41
13:C1:35:TYR:CD2	13:C1:49:ILE:HG23	3.45	0.41
16:C4:17:ALA:N	16:C4:80:HIS:O	2.45	0.41
16:C4:85:ALA:H	16:C4:119:THR:CG2	2.19	0.41
19:C7:27:ASP:CG	19:C7:30:THR:HG23	2.41	0.41
20:C8:15:LEU:HD23	20:C8:15:LEU:N	2.36	0.41
20:C8:27:LYS:NZ	80:6:1539:G:H1	352.30	0.41
20:C8:38:VAL:HG11	20:C8:73:MET:SD	3.99	0.41
28:D6:66:LYS:HE2	28:D6:66:LYS:HB2	1.89	0.41
33:E1:121:CYS:HB2	33:E1:132:LEU:HD21	2.03	0.41
40:L3:199:PHE:C	40:L3:201:LYS:H	2.23	0.41
36:1:2941:A:C8	40:L3:255:TRP:CD2	3.09	0.41
41:L4:188:ARG:HG3	41:L4:189:ALA:N	2.36	0.41
41:L4:8:VAL:CG1	41:L4:9:HIS:H	2.29	0.41
42:L5:54:ARG:NH1	42:L5:148:ILE:C	2.74	0.41
43:L6:155:LEU:O	43:L6:156:LYS:C	2.58	0.41
44:L7:83:LEU:HD11	44:L7:116:PHE:HD1	1.86	0.41
44:L7:43:ILE:O	44:L7:46:GLU:N	3.22	0.41
45:L8:238:LEU:HB2	45:L8:243:GLN:HB2	5.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:M0:140:THR:HG21	47:M0:144:ASN:ND2	2.20	0.41
47:M0:210:ILE:HD13	47:M0:217:PHE:CE2	3.74	0.41
48:M1:80:LEU:HD12	48:M1:167:TYR:OH	2.88	0.41
50:M4:10:SER:O	50:M4:12:TRP:N	3.71	0.41
50:M4:17:VAL:HG13	50:M4:36:VAL:O	2.26	0.41
51:M5:47:LYS:HA	51:M5:50:ARG:HH21	1.86	0.41
51:M5:94:TYR:CE1	51:M5:96:ARG:HB2	2.56	0.41
52:M6:39:GLU:H	52:M6:39:GLU:CD	2.23	0.41
53:M7:112:LEU:HA	53:M7:112:LEU:HD12	1.81	0.41
53:M7:136:ILE:C	53:M7:137:ASN:HD22	2.18	0.41
53:M7:4:TYR:CE1	53:M7:16:SER:HB2	2.77	0.41
53:M7:88:VAL:O	53:M7:91:VAL:N	2.54	0.41
53:M7:95:LEU:O	53:M7:97:ASN:N	2.54	0.41
54:M8:111:ARG:HD2	54:M8:111:ARG:HH11	1.66	0.41
54:M8:24:VAL:O	54:M8:28:LEU:HG	2.21	0.41
55:M9:175:GLN:O	55:M9:179:GLU:HG3	2.60	0.41
56:N0:30:PHE:CE2	56:N0:103:VAL:HG21	2.56	0.41
56:N0:159:SER:OG	56:N0:160:THR:N	2.54	0.41
56:N0:58:ILE:HG22	56:N0:58:ILE:O	2.53	0.41
58:N2:28:PHE:HD1	58:N2:28:PHE:HA	2.40	0.41
59:N3:10:LYS:HB3	59:N3:10:LYS:HE2	1.68	0.41
59:N3:77:ILE:HD13	59:N3:126:TRP:CD2	2.84	0.41
63:N7:128:GLN:CG	63:N7:129:TRP:H	4.41	0.41
63:N7:34:LYS:HA	63:N7:34:LYS:HD2	2.90	0.41
64:N8:74:ASN:CB	64:N8:115:LYS:HB2	2.51	0.41
64:N8:79:TRP:CZ3	64:N8:91:LEU:HD22	3.34	0.41
65:N9:7:HIS:O	65:N9:8:THR:HB	2.51	0.41
70:O4:42:PRO:O	70:O4:43:LYS:HD3	2.50	0.41
70:O4:72:VAL:HG22	70:O4:77:GLY:O	2.78	0.41
73:O7:66:TYR:CD2	73:O7:66:TYR:C	2.95	0.41
73:O7:73:ARG:HH12	73:O7:78:PHE:HD1	1.69	0.41
2:S0:114:SER:HA	2:S0:116:LYS:HZ3	2.65	0.41
2:S0:179:ARG:HD2	2:S0:180:GLU:OE2	6.06	0.41
3:S1:185:THR:O	3:S1:189:ILE:HG13	2.21	0.41
5:S3:212:LYS:O	5:S3:214:GLU:HG2	2.50	0.41
6:S4:6:LYS:HE2	6:S4:6:LYS:HB2	3.75	0.41
7:S5:177:ILE:HA	7:S5:180:ARG:NH1	2.36	0.41
7:S5:62:VAL:CG1	7:S5:89:ILE:HG12	2.60	0.41
9:S7:125:ILE:HA	9:S7:128:ASP:HB2	2.03	0.41
9:S7:9:LEU:O	9:S7:9:LEU:HD23	2.20	0.41
1:2:334:G:O6	10:S8:5:ARG:NH2	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:1329:U:OP1	69:O3:17:GLN:HG3	2.22	0.40
36:1:1164:G:N2	36:1:1335:C:O2	2.43	0.40
36:1:1345:G:N2	36:1:1360:C:C2	2.89	0.40
36:1:1375:G:N2	36:1:1376:C:C2	2.89	0.40
36:1:1577:G:H2'	36:1:1578:C:O4'	2.21	0.40
36:1:1903:U:H6	36:1:1903:U:O5'	2.04	0.40
36:1:197:G:H2'	36:1:198:A:H8	1.85	0.40
36:1:2292:U:C4	36:1:2293:C:N4	2.89	0.40
36:1:283:G:C8	64:N8:61:PHE:CE1	3.09	0.40
36:1:292:U:H6	36:1:292:U:O5'	2.03	0.40
36:1:3030:G:C5	36:1:3031:G:C5	3.09	0.40
36:1:2385:G:C8	36:1:3143:C:C6	3.09	0.40
36:1:3166:C:H42	36:1:3284:G:H1	1.68	0.40
36:1:3330:A:H4'	40:L3:365:PHE:O	2.21	0.40
36:1:503:C:N3	36:1:611:A:N1	2.68	0.40
36:1:835:G:HO2'	36:1:836:A:P	2.43	0.40
36:1:836:A:C8	36:1:836:A:O5'	2.74	0.40
1:2:111:U:C4	1:2:112:A:N7	2.89	0.40
1:2:1153:G:C2	1:2:1154:A:C8	3.09	0.40
1:2:1282:G:C6	1:2:1283:A:N6	2.89	0.40
1:2:1316:C:C4	1:2:1317:U:C5	3.09	0.40
1:2:1413:U:O4'	22:D0:72:ASN:ND2	2.54	0.40
1:2:647:G:H22	1:2:670:G:H22	1.65	0.40
1:2:856:U:H2'	1:2:857:C:H6	1.86	0.40
38:4:140:G:H2'	38:4:141:C:O4'	2.22	0.40
85:5:1148:G:C6	85:5:1149:G:C5	3.08	0.40
85:5:1172:G:N2	85:5:1173:U:C2	2.89	0.40
85:5:1536:G:C4	85:5:1537:A:C8	3.08	0.40
85:5:1605:A:N1	85:5:1608:C:H1'	2.36	0.40
85:5:1656:A:H4'	85:5:1657:C:H5'	2.02	0.40
85:5:1683:A:C5	85:5:1684:U:C5	3.09	0.40
85:5:1716:U:O2'	85:5:1717:U:P	2.79	0.40
85:5:1811:G:C5	85:5:1812:G:C8	3.09	0.40
85:5:2124:G:N3	85:5:2125:A:C8	2.89	0.40
85:5:2434:U:H4'	85:5:2435:G:O5'	2.21	0.40
85:5:2596:U:C4	85:5:2597:U:C4	3.09	0.40
85:5:2601:A:H2'	85:5:2602:G:H8	1.86	0.40
85:5:2726:C:O4'	85:5:2726:C:O2	2.33	0.40
85:5:2761:G:H1'	85:5:2800:G:N2	2.36	0.40
85:5:2894:C:H2'	85:5:2895:G:H8	1.86	0.40
85:5:2953:U:O5'	85:5:2953:U:H6	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:5:3045:G:H2'	85:5:3046:A:O4'	2.21	0.40
85:5:34:A:N3	85:5:51:A:C2	2.89	0.40
85:5:498:A:N1	85:5:499:G:C6	2.89	0.40
85:5:515:C:H5''	85:5:515:C:H6	1.86	0.40
85:5:687:U:H2'	85:5:688:G:C8	2.57	0.40
85:5:359:U:H4'	85:5:817:A:N6	2.36	0.40
33:E1:97:LYS:NZ	80:6:1232:U:O4	437.77	0.40
80:6:1297:G:N1	80:6:1301:U:C4	2.89	0.40
19:C7:48:ASN:ND2	80:6:1389:C:OP1	428.13	0.40
80:6:1394:G:H2'	80:6:1395:G:C8	2.55	0.40
80:6:265:A:C2	80:6:267:U:O4	2.75	0.40
80:6:377:G:H4'	80:6:379:U:O4	2.20	0.40
80:6:391:A:H2'	80:6:392:G:O4'	2.21	0.40
80:6:36:C:C2	80:6:473:A:C2	3.09	0.40
80:6:607:G:OP2	80:6:613:G:N1	2.54	0.40
38:8:15:G:C6	38:8:16:G:N1	2.89	0.40
13:C1:118:GLN:H	13:C1:118:GLN:HG2	3.17	0.40
13:C1:80:MET:CB	13:C1:83:THR:HG23	2.51	0.40
16:C4:30:VAL:HG13	16:C4:39:ILE:O	2.20	0.40
19:C7:21:TYR:N	19:C7:22:PRO:CD	2.88	0.40
20:C8:28:ILE:HG13	20:C8:28:ILE:H	4.32	0.40
26:D4:124:ARG:O	26:D4:127:LYS:HG3	2.21	0.40
26:D4:127:LYS:O	26:D4:131:ARG:HG2	2.21	0.40
16:C4:127:ARG:HG3	28:D6:22:ARG:HH12	1.86	0.40
39:L2:116:VAL:HG11	39:L2:134:VAL:CG2	2.50	0.40
39:L2:242:ARG:NH1	39:L2:246:LEU:HD12	6.63	0.40
40:L3:292:ALA:O	40:L3:295:ALA:HB3	2.21	0.40
41:L4:122:THR:CG2	41:L4:235:LEU:HB2	2.50	0.40
41:L4:64:SER:OG	41:L4:73:ARG:O	3.56	0.40
43:L6:98:VAL:HA	43:L6:101:PHE:HD2	1.84	0.40
43:L6:19:LYS:O	43:L6:21:THR:HG22	2.21	0.40
36:1:3276:G:C5'	43:L6:48:ARG:NH2	2.81	0.40
46:L9:79:ILE:HD13	46:L9:79:ILE:HG21	1.69	0.40
48:M1:11:ASP:HB3	48:M1:12:LEU:H	1.41	0.40
48:M1:73:GLY:O	48:M1:74:PRO:C	2.59	0.40
49:M3:100:ARG:HG3	49:M3:100:ARG:H	2.80	0.40
49:M3:119:TYR:O	49:M3:123:ILE:HG23	2.21	0.40
49:M3:165:SER:HG	64:N8:135:GLU:CD	5.34	0.40
49:M3:36:ARG:HG3	49:M3:39:ARG:NH2	3.76	0.40
52:M6:15:LEU:O	52:M6:16:VAL:C	2.59	0.40
52:M6:181:ALA:C	52:M6:183:ALA:N	2.75	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:M6:73:PHE:CE1	52:M6:78:ARG:NH1	2.89	0.40
53:M7:113:TYR:O	53:M7:150:VAL:HA	2.44	0.40
54:M8:44:PHE:HD1	54:M8:139:ILE:HD11	1.86	0.40
54:M8:20:LYS:HD3	85:5:671:U:O2'	156.92	0.40
55:M9:10:LEU:HD12	55:M9:10:LEU:HA	1.66	0.40
55:M9:109:TYR:CE2	55:M9:114:LYS:HD2	6.06	0.40
55:M9:47:ASN:OD1	55:M9:47:ASN:C	2.59	0.40
55:M9:90:PRO:HG2	55:M9:93:VAL:CG2	3.14	0.40
56:N0:12:ARG:O	56:N0:13:ARG:C	2.57	0.40
56:N0:140:VAL:O	56:N0:141:LYS:C	2.89	0.40
57:N1:38:ASP:H	57:N1:64:VAL:HG13	2.76	0.40
58:N2:82:LYS:HB2	58:N2:82:LYS:HE2	1.84	0.40
58:N2:97:SER:HB2	58:N2:103:TYR:CD1	2.55	0.40
59:N3:120:LYS:HG2	59:N3:120:LYS:O	2.78	0.40
63:N7:115:LYS:O	63:N7:119:GLU:HG3	3.22	0.40
63:N7:14:VAL:HA	70:O4:89:ILE:HD13	3.21	0.40
64:N8:24:LYS:O	92:5:3511:OHX:N2	175.96	0.40
66:O0:64:LYS:HE2	66:O0:64:LYS:HB3	2.44	0.40
68:O2:9:ILE:HG12	68:O2:63:THR:CG2	2.51	0.40
62:N6:126:LEU:HB2	71:O5:71:LYS:NZ	45.96	0.40
74:O8:65:LEU:O	74:O8:69:LEU:HD23	2.21	0.40
78:Q2:32:LYS:O	78:Q2:33:ALA:CB	4.33	0.40
78:Q2:6:LYS:HG2	78:Q2:93:LEU:HG	2.02	0.40
2:S0:37:VAL:HG22	2:S0:149:LEU:HD22	2.03	0.40
3:S1:39:GLU:HB3	3:S1:74:GLN:HA	2.03	0.40
4:S2:109:GLY:HA2	4:S2:139:ILE:HB	2.18	0.40
4:S2:76:LEU:HD21	4:S2:104:VAL:HB	3.74	0.40
5:S3:34:TYR:CE2	5:S3:37:VAL:HG13	2.77	0.40
7:S5:166:ARG:HA	7:S5:169:ASN:HB2	2.74	0.40
7:S5:41:LYS:HE3	7:S5:41:LYS:HB3	1.83	0.40
8:S6:106:LEU:HA	8:S6:106:LEU:HD23	1.87	0.40
9:S7:163:ASP:O	9:S7:166:LEU:HB2	3.21	0.40
9:S7:75:THR:O	9:S7:79:ARG:HB2	2.53	0.40
11:S9:110:GLN:HE21	11:S9:110:GLN:HA	2.13	0.40
35:SM:80:ALA:O	80:6:1462:G:H1'	333.51	0.40
36:1:1064:A:C5	36:1:1093:A:C2	3.09	0.40
36:1:1212:A:OP1	46:L9:1:MET:HB3	2.21	0.40
36:1:1631:C:OP2	63:N7:48:ARG:NH2	2.54	0.40
36:1:1883:A:H2'	36:1:1884:A:O4'	2.22	0.40
36:1:2651:G:H5''	36:1:2652:U:O4'	2.20	0.40
36:1:2766:U:C2	36:1:2767:U:C5	3.09	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:1:429:U:H2'	36:1:430:U:H6	1.86	0.40
36:1:637:C:C2	36:1:638:C:C5	3.08	0.40
36:1:772:U:H2'	36:1:773:G:C8	2.57	0.40
36:1:92:G:OP2	36:1:93:C:H5''	2.22	0.40
1:2:10:G:N1	1:2:1128:U:C2	2.89	0.40
1:2:1174:U:H5'	18:C6:143:ARG:CZ	2.51	0.40
1:2:1664:A:C8	1:2:1704:A:C2	3.09	0.40
1:2:5:U:C2	1:2:20:G:C2	3.09	0.40
1:2:380:U:O2	1:2:380:U:O4'	2.39	0.40
1:2:465:G:H2'	1:2:466:U:O4'	2.21	0.40
1:2:735:A:N6	1:2:736:A:C6	2.90	0.40
1:2:736:A:H5'	6:S4:221:ARG:HG3	2.03	0.40
1:2:734:G:C4	1:2:782:A:C2	3.09	0.40
37:3:13:A:O4'	37:3:112:G:C8	2.74	0.40
38:4:122:U:C4	38:4:132:G:O6	2.74	0.40
38:4:53:A:C6	38:4:54:A:C5	3.09	0.40
38:4:55:U:H2'	38:4:56:G:O4'	2.21	0.40
85:5:1161:G:C2	85:5:1162:U:C5	3.09	0.40
85:5:1666:G:C5	85:5:1667:A:N7	2.89	0.40
85:5:1710:C:C2	85:5:1735:G:N2	2.90	0.40
85:5:1768:U:H2'	85:5:1769:G:O4'	2.21	0.40
85:5:258:G:N2	85:5:259:C:C2	2.89	0.40
85:5:2623:G:H2'	85:5:2624:G:O4'	2.22	0.40
85:5:273:A:H2'	85:5:274:G:C8	2.56	0.40
85:5:2987:A:C5	85:5:2988:C:C4	3.09	0.40
85:5:3028:G:N1	85:5:3029:A:C2	2.89	0.40
85:5:3223:A:C6	85:5:3224:G:N7	2.89	0.40
85:5:3274:A:HO2'	85:5:3275:U:H6	1.57	0.40
85:5:384:A:H2'	85:5:385:A:H8	1.86	0.40
85:5:384:A:H2'	85:5:385:A:O4'	2.21	0.40
85:5:524:U:H2'	85:5:525:C:O4'	2.21	0.40
85:5:64:G:C5	85:5:322:U:C4	3.10	0.40
85:5:69:C:H2'	85:5:70:A:O4'	2.21	0.40
19:C7:32:LYS:NZ	80:6:1387:G:OP1	439.62	0.40
80:6:1398:U:N3	80:6:1400:A:N1	2.70	0.40
80:6:1557:U:HO2'	80:6:1558:U:H2'	1.85	0.40
80:6:289:U:N3	80:6:290:G:C8	2.89	0.40
4:S2:197:TYR:HD1	80:6:2:A:H2'	392.57	0.40
80:6:722:G:H1'	80:6:723:G:H8	1.86	0.40
13:C1:80:MET:HE3	13:C1:80:MET:HB3	2.73	0.40
15:C3:125:LEU:O	15:C3:126:ALA:C	2.74	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:C6:93:HIS:HB3	18:C6:102:LYS:HB2	2.85	0.40
7:S5:25:LEU:HB2	18:C6:27:GLY:O	2.21	0.40
20:C8:4:VAL:HG21	27:D5:82:HIS:CD2	5.93	0.40
20:C8:86:LEU:O	20:C8:89:GLN:HG2	2.21	0.40
25:D3:135:LEU:HA	25:D3:135:LEU:HD23	2.27	0.40
26:D4:105:ARG:HD3	26:D4:105:ARG:HH11	1.92	0.40
28:D6:12:LYS:HD2	28:D6:16:GLY:N	5.19	0.40
30:D8:18:ARG:HD3	80:6:1616:G:O3'	359.69	0.40
40:L3:244:ARG:O	40:L3:244:ARG:HG3	2.55	0.40
40:L3:286:GLY:N	40:L3:321:PHE:O	3.46	0.40
42:L5:10:SER:O	42:L5:11:ALA:C	2.79	0.40
42:L5:152:ARG:O	42:L5:154:THR:HG23	2.21	0.40
43:L6:165:LEU:H	43:L6:165:LEU:HG	2.54	0.40
44:L7:55:TYR:CE2	44:L7:141:TYR:CE2	3.09	0.40
45:L8:169:LEU:O	45:L8:169:LEU:HD22	2.62	0.40
47:M0:52:LEU:HG	47:M0:152:LEU:HB3	2.03	0.40
47:M0:184:LYS:O	47:M0:190:VAL:HG23	2.21	0.40
47:M0:205:SER:O	47:M0:209:ASN:HB2	2.21	0.40
48:M1:171:VAL:HG22	48:M1:172:LEU:N	2.35	0.40
48:M1:52:TYR:HB2	48:M1:53:THR:H	1.39	0.40
49:M3:107:GLU:HG3	72:O6:17:VAL:HG22	3.48	0.40
49:M3:23:LYS:HG3	49:M3:25:HIS:CD2	2.56	0.40
49:M3:86:THR:O	49:M3:87:ALA:C	2.60	0.40
50:M4:20:VAL:HA	50:M4:33:ALA:O	2.21	0.40
50:M4:25:LYS:C	50:M4:29:ALA:HB2	2.59	0.40
51:M5:183:THR:O	51:M5:183:THR:CG2	3.03	0.40
51:M5:44:ARG:HB3	51:M5:47:LYS:HB3	2.71	0.40
52:M6:62:THR:O	52:M6:62:THR:HG22	2.29	0.40
36:1:2352:A:H5''	53:M7:83:TRP:O	2.21	0.40
55:M9:59:SER:HB2	85:5:1689:U:O2'	164.23	0.40
56:N0:123:ILE:HG23	56:N0:123:ILE:HD12	2.22	0.40
56:N0:33:ASN:ND2	56:N0:36:ILE:CD1	2.84	0.40
36:1:2338:C:H1'	59:N3:49:LEU:HD12	2.02	0.40
60:N4:44:LYS:HD3	60:N4:44:LYS:HA	2.49	0.40
61:N5:31:THR:O	61:N5:33:ARG:HG3	2.21	0.40
67:O1:12:TYR:O	67:O1:73:LEU:N	2.81	0.40
68:O2:125:ARG:HH21	85:5:1392:G:H3'	129.72	0.40
68:O2:60:ASN:C	68:O2:60:ASN:OD1	2.74	0.40
68:O2:87:MET:O	68:O2:88:HIS:CG	2.74	0.40
73:O7:19:CYS:SG	73:O7:34:CYS:HB2	2.61	0.40
36:1:1613:A:OP1	74:O8:50:SER:HA	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Q2:16:THR:OG1	78:Q2:17:CYS:N	3.18	0.40
78:Q2:33:ALA:O	78:Q2:34:SER:HB3	2.22	0.40
2:S0:162:CYS:HB2	2:S0:163:ASN:H	1.72	0.40
2:S0:41:ARG:HB2	2:S0:47:VAL:HG23	2.03	0.40
3:S1:189:ILE:N	3:S1:190:PRO:HD2	2.36	0.40
3:S1:36:SER:CB	3:S1:231:LEU:HB3	2.51	0.40
5:S3:116:ARG:HG3	5:S3:152:PHE:HE1	4.98	0.40
5:S3:50:ILE:O	5:S3:50:ILE:HG22	2.19	0.40
5:S3:45:LYS:HD2	5:S3:85:VAL:HG21	2.02	0.40
6:S4:123:LEU:HA	6:S4:123:LEU:HD12	1.87	0.40
6:S4:208:VAL:HG12	6:S4:210:ILE:HG12	2.02	0.40
6:S4:85:GLY:O	6:S4:101:LEU:HB2	2.56	0.40
7:S5:192:GLU:OE1	27:D5:63:SER:OG	2.31	0.40
8:S6:2:LYS:HG3	8:S6:16:PHE:O	2.21	0.40
9:S7:131:PHE:CD2	9:S7:131:PHE:C	2.94	0.40
34:SR:116:ASP:O	34:SR:119:ALA:N	2.52	0.40
34:SR:177:MET:CG	34:SR:193:ILE:HG12	2.51	0.40
34:SR:52:GLN:OE1	34:SR:53:LYS:HG2	2.21	0.40
36:1:1240:A:H1'	36:1:1249:G:N2	2.36	0.40
36:1:1281:G:C6	36:1:1282:G:C6	3.10	0.40
36:1:1627:U:O2	36:1:1817:G:C2	2.75	0.40
36:1:1887:A:H2'	36:1:1888:U:O4'	2.22	0.40
36:1:1921:A:H61	36:1:1929:G:H2'	1.85	0.40
36:1:2398:A:C2	36:1:2946:A:C6	3.09	0.40
36:1:242:C:O2'	36:1:243:G:H8	2.03	0.40
36:1:2621:G:C6	36:1:2622:C:C4	3.09	0.40
36:1:2656:A:C8	36:1:2658:G:C8	3.09	0.40
36:1:1304:A:O2'	36:1:2884:C:O2	2.39	0.40
36:1:2913:C:H2'	36:1:2914:G:H8	1.86	0.40
36:1:3188:G:H2'	36:1:3189:G:C8	2.52	0.40
36:1:3255:U:H2'	36:1:3256:G:C8	2.56	0.40
36:1:437:G:C2'	36:1:438:A:O4'	2.67	0.40
36:1:44:U:OP1	51:M5:84:PRO:HG2	2.22	0.40
36:1:966:U:C2	36:1:967:A:C8	3.10	0.40
1:2:1159:G:C6	1:2:1447:G:C6	3.09	0.40
1:2:1424:C:H6	1:2:1424:C:O5'	2.05	0.40
1:2:1443:A:H2	1:2:1444:C:C6	2.39	0.40
1:2:367:A:C6	1:2:368:U:C4	3.09	0.40
1:2:742:U:H2'	1:2:743:A:C8	2.57	0.40
1:2:873:C:H2'	1:2:874:A:C8	2.57	0.40
1:2:925:G:C6	1:2:926:C:C4	3.10	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:935:A:N1	1:2:936:G:C5	2.89	0.40
37:3:25:G:C2	37:3:26:C:O2	2.74	0.40
38:4:25:G:N1	38:4:26:U:C2	2.89	0.40
38:4:36:G:OP2	71:O5:85:THR:HG23	2.21	0.40
38:4:42:G:C2	38:4:43:A:C8	3.09	0.40
85:5:1342:C:N4	85:5:1362:G:H1	2.18	0.40
85:5:1658:G:C2	85:5:1796:G:C6	3.09	0.40
85:5:1807:G:C5	85:5:1808:G:C6	3.10	0.40
51:M5:72:LYS:NZ	85:5:2167:A:OP1	162.75	0.40
85:5:2357:A:OP1	92:5:3512:OHX:N4	2.54	0.40
78:Q2:20:HIS:ND1	85:5:2741:C:O2'	214.32	0.40
85:5:2885:C:C4	85:5:2886:U:O4	2.74	0.40
85:5:2925:C:H2'	85:5:2926:A:H5'	2.02	0.40
85:5:310:U:H2'	85:5:311:C:O4'	2.22	0.40
92:5:3433:OHX:N4	92:5:3671:OHX:N2	2.69	0.40
85:5:513:G:C6	85:5:579:G:C5	3.09	0.40
85:5:799:G:C2'	85:5:800:G:OP1	2.69	0.40
85:5:825:U:O5'	85:5:825:U:H6	2.03	0.40
85:5:873:C:C2	85:5:875:G:C8	3.10	0.40
80:6:103:A:H4'	80:6:104:A:O5'	2.21	0.40
80:6:1347:U:C2	80:6:1517:U:C4	3.09	0.40
80:6:1213:G:C2	80:6:1451:C:C2	3.09	0.40
80:6:1486:G:H1'	80:6:1592:A:O2'	2.21	0.40
80:6:1514:U:O5'	80:6:1515:A:H5'	2.22	0.40
80:6:1592:A:C2	80:6:1605:G:C2	3.09	0.40
80:6:1607:G:N1	80:6:1608:U:C4	2.89	0.40
80:6:1690:G:H1'	80:6:1712:A:H61	1.86	0.40
80:6:276:C:C4	80:6:278:U:C4	3.10	0.40
80:6:653:C:H2'	80:6:654:C:C6	2.56	0.40
80:6:74:U:H5''	80:6:75:U:OP2	2.21	0.40
80:6:634:G:C2	80:6:966:A:C4	3.09	0.40
38:8:102:U:C4	38:8:103:G:C6	3.09	0.40
15:C3:91:LEU:HB3	15:C3:122:ILE:HG12	2.29	0.40
18:C6:13:LYS:O	18:C6:15:SER:N	2.54	0.40
19:C7:41:ILE:HG21	19:C7:47:ARG:N	2.37	0.40
21:C9:79:LEU:O	80:6:1481:C:N4	395.68	0.40
22:D0:29:THR:HA	22:D0:85:ARG:O	2.57	0.40
22:D0:34:LEU:HD21	22:D0:89:ARG:NH1	6.19	0.40
23:D1:85:TYR:CD1	29:D7:6:ASP:HB2	2.70	0.40
25:D3:4:GLY:O	25:D3:5:LYS:C	2.58	0.40
26:D4:8:ARG:NE	26:D4:28:LEU:HD11	3.73	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D6:21:VAL:HG11	28:D6:72:HIS:HD2	5.96	0.40
28:D6:10:ARG:NE	28:D6:35:ALA:O	2.54	0.40
29:D7:21:LEU:HA	29:D7:26:GLN:HB2	2.02	0.40
33:E1:126:CYS:O	33:E1:128:ALA:N	2.50	0.40
39:L2:126:LEU:HD13	39:L2:150:LEU:HD22	2.20	0.40
39:L2:117:GLU:HB2	39:L2:162:ALA:HB1	2.55	0.40
39:L2:183:GLY:O	39:L2:186:PHE:HB3	2.21	0.40
39:L2:70:ARG:HH11	39:L2:72:ARG:HE	5.24	0.40
40:L3:215:ILE:HD13	40:L3:215:ILE:HG21	2.23	0.40
40:L3:361:THR:HG22	40:L3:371:GLN:CD	3.78	0.40
41:L4:41:SER:OG	41:L4:111:VAL:HG11	2.20	0.40
42:L5:128:GLU:O	42:L5:164:LYS:NZ	2.46	0.40
42:L5:136:GLU:O	42:L5:137:ASP:O	2.39	0.40
42:L5:54:ARG:CZ	42:L5:149:GLY:HA3	2.52	0.40
42:L5:273:ARG:O	42:L5:273:ARG:HG2	2.51	0.40
42:L5:5:LYS:HD2	42:L5:5:LYS:HA	1.84	0.40
42:L5:52:VAL:HG21	42:L5:65:ILE:HG13	3.36	0.40
44:L7:131:GLU:N	44:L7:132:PRO:CD	2.97	0.40
44:L7:141:TYR:O	44:L7:142:SER:C	2.71	0.40
45:L8:73:PRO:HB2	45:L8:230:LYS:O	2.21	0.40
45:L8:90:THR:HG23	45:L8:214:LEU:HD23	2.92	0.40
47:M0:89:VAL:HG13	47:M0:136:PHE:CE1	2.55	0.40
48:M1:13:LYS:HD3	48:M1:14:ILE:O	2.21	0.40
49:M3:46:ILE:HG13	49:M3:49:ARG:NH1	4.56	0.40
49:M3:87:ALA:O	49:M3:88:ALA:C	2.59	0.40
50:M4:85:TRP:CD1	50:M4:90:VAL:HB	2.57	0.40
51:M5:109:ARG:HG3	51:M5:110:ALA:N	3.64	0.40
51:M5:21:PHE:O	51:M5:25:VAL:HG23	2.24	0.40
52:M6:94:ARG:O	52:M6:97:ALA:HB3	2.40	0.40
53:M7:65:SER:O	53:M7:66:SER:CB	2.86	0.40
54:M8:43:PRO:O	54:M8:44:PHE:C	2.79	0.40
56:N0:71:LYS:O	56:N0:73:LYS:HG3	2.22	0.40
57:N1:26:HIS:H	57:N1:26:HIS:CD2	2.83	0.40
61:N5:127:THR:HG23	61:N5:127:THR:H	1.66	0.40
62:N6:126:LEU:HB2	71:O5:71:LYS:HZ1	45.25	0.40
63:N7:35:SER:O	63:N7:36:HIS:HB2	4.60	0.40
64:N8:25:HIS:CE1	85:5:661:G:N7	159.77	0.40
67:O1:61:LYS:HA	67:O1:61:LYS:HD2	1.95	0.40
67:O1:17:HIS:HB2	67:O1:69:TYR:HB3	2.03	0.40
69:O3:84:THR:C	69:O3:85:PHE:HD2	2.24	0.40
70:O4:47:CYS:SG	70:O4:48:GLY:N	2.94	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:O4:80:ARG:HH11	70:O4:88:ARG:NH2	2.19	0.40
73:O7:3:LYS:HE2	73:O7:3:LYS:HB3	3.08	0.40
36:1:351:A:N6	75:O9:37:TYR:O	2.46	0.40
76:Q0:79:GLU:O	76:Q0:80:PRO:C	2.77	0.40
78:Q2:83:LEU:C	78:Q2:83:LEU:HD23	3.18	0.40
2:S0:71:GLU:HA	2:S0:94:GLY:C	3.04	0.40
4:S2:38:VAL:HG22	4:S2:39:THR:H	1.85	0.40
5:S3:111:ASN:HB3	5:S3:113:LEU:HD23	6.11	0.40
6:S4:103:TYR:CG	6:S4:189:LEU:HD11	2.71	0.40
7:S5:29:ILE:HA	7:S5:30:PRO:HD3	2.01	0.40
8:S6:153:VAL:H	8:S6:153:VAL:HG22	3.15	0.40
9:S7:109:VAL:O	9:S7:111:LYS:N	2.53	0.40
9:S7:142:TYR:HE1	24:D2:39:GLN:HE21	2.24	0.40
10:S8:32:GLN:HE21	10:S8:32:GLN:HB3	1.96	0.40
10:S8:38:ILE:HD13	10:S8:80:GLY:HA2	3.10	0.40
35:SM:33:LYS:HD2	35:SM:33:LYS:HA	1.87	0.40
34:SR:110:VAL:HA	34:SR:126:SER:HB2	2.56	0.40
34:SR:183:LEU:HA	34:SR:186:PHE:CD1	2.56	0.40
34:SR:169:ILE:HD13	34:SR:183:LEU:HD21	2.59	0.40
34:SR:152:SER:HB2	34:SR:200:ASN:O	2.56	0.40
36:1:1212:A:C2	36:1:1213:G:C4	3.10	0.40
36:1:1246:G:OP1	36:1:1246:G:H8	2.05	0.40
36:1:1439:U:O2'	36:1:1440:G:H5'	2.21	0.40
36:1:156:G:O2'	36:1:157:A:H4'	2.21	0.40
36:1:1677:G:O6	58:N2:74:LYS:HE3	2.21	0.40
36:1:1908:A:N6	36:1:1909:A:C6	2.90	0.40
36:1:2421:U:O2'	78:Q2:52:GLY:HA3	2.21	0.40
36:1:2781:U:C4	36:1:2782:U:C4	3.10	0.40
36:1:2783:U:H5'	36:1:2784:G:OP2	2.20	0.40
36:1:2836:C:N4	36:1:2837:A:N1	2.69	0.40
36:1:287:G:H5'	51:M5:179:LYS:O	2.22	0.40
36:1:3000:A:H2'	36:1:3001:C:C6	2.57	0.40
36:1:2960:C:OP1	92:1:3534:OHX:N4	2.54	0.40
36:1:370:U:H5''	36:1:371:G:OP2	2.21	0.40
36:1:104:G:O2'	36:1:698:U:O2	2.33	0.40
36:1:863:C:N4	36:1:864:G:C6	2.89	0.40
36:1:946:U:N3	36:1:947:G:N7	2.70	0.40
1:2:1437:G:C4	1:2:1438:G:C8	3.09	0.40
1:2:86:A:O2'	1:2:147:A:N3	2.41	0.40
92:2:1956:OHX:N3	92:2:1982:OHX:N6	2.69	0.40
1:2:542:A:N1	32:E0:28:LYS:HD2	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:542:A:O2'	1:2:543:C:O5'	2.26	0.40
1:2:800:A:O4'	9:S7:110:GLN:NE2	2.54	0.40
1:2:851:G:C2	1:2:852:A:C8	3.09	0.40
1:2:877:U:H2'	1:2:878:G:H8	1.85	0.40
37:3:113:C:N4	37:3:114:U:C4	2.89	0.40
37:3:7:G:OP1	42:L5:33:ARG:HD2	2.22	0.40
38:4:42:G:N3	38:4:42:G:H2'	2.35	0.40
38:4:6:U:H2'	38:4:7:U:H6	1.86	0.40
85:5:1096:U:H1'	85:5:1097:G:C2	2.56	0.40
85:5:1338:C:N3	85:5:1339:C:C5	2.90	0.40
85:5:343:U:O2	85:5:1439:U:H1'	2.21	0.40
85:5:1556:C:H2'	85:5:2169:G:N1	2.36	0.40
85:5:1614:C:O2'	85:5:1615:C:H5'	2.22	0.40
85:5:1673:G:C4	85:5:1775:G:C2	3.09	0.40
66:O0:88:GLY:N	85:5:1729:A:OP1	245.74	0.40
55:M9:43:LYS:CE	85:5:1765:U:H5'	93.54	0.40
85:5:181:U:H2'	85:5:182:U:O4'	2.21	0.40
85:5:1934:G:C6	85:5:1935:G:N7	2.89	0.40
85:5:2316:G:C6	85:5:2317:A:C5	3.09	0.40
85:5:2323:G:C2	85:5:2325:G:N7	2.89	0.40
85:5:2404:A:H5''	85:5:2404:A:H8	1.85	0.40
85:5:2916:U:H5	85:5:2935:U:O2'	2.05	0.40
85:5:3335:A:C2	85:5:3336:A:C5	3.10	0.40
85:5:3348:G:H1	85:5:3357:U:H3	1.68	0.40
92:5:3522:OHX:N6	92:5:3721:OHX:N4	2.69	0.40
85:5:440:A:N3	85:5:441:U:C4	2.90	0.40
85:5:575:G:N1	85:5:576:C:C4	2.90	0.40
85:5:797:U:O2'	85:5:798:G:H5'	2.21	0.40
85:5:917:A:N6	85:5:918:C:N4	2.70	0.40
80:6:1003:A:N3	80:6:1005:A:C5	2.90	0.40
80:6:1314:U:O2'	80:6:1315:U:P	2.80	0.40
80:6:1488:G:H3'	80:6:1515:A:H61	1.87	0.40
80:6:1734:U:C2	80:6:1735:U:C5	3.10	0.40
80:6:726:C:C4	80:6:727:U:C4	3.10	0.40
80:6:727:U:H2'	80:6:728:U:C6	2.56	0.40
80:6:882:U:H2'	80:6:883:C:C6	2.56	0.40
13:C1:40:LEU:HA	13:C1:40:LEU:HD13	2.33	0.40
15:C3:134:VAL:HG13	15:C3:134:VAL:H	1.65	0.40
18:C6:103:ASN:O	18:C6:107:LYS:N	2.99	0.40
18:C6:57:LEU:CD1	18:C6:57:LEU:H	4.13	0.40
24:D2:103:ILE:C	24:D2:104:LEU:HD13	2.42	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:C3:20:ARG:NH1	24:D2:56:HIS:CG	4.54	0.40
24:D2:83:ILE:HA	24:D2:83:ILE:HD12	1.97	0.40
24:D2:99:PHE:N	24:D2:99:PHE:CD1	3.03	0.40
16:C4:103:ARG:HG3	28:D6:49:ALA:CB	6.93	0.40
28:D6:64:LEU:HD23	28:D6:64:LEU:HA	2.86	0.40
32:E0:41:THR:HA	32:E0:45:VAL:HB	2.04	0.40
33:E1:98:VAL:HB	33:E1:99:LYS:H	1.47	0.40
40:L3:232:ARG:HG2	40:L3:233:TRP:CD1	3.01	0.40
40:L3:238:LEU:HD22	40:L3:246:LEU:O	3.08	0.40
40:L3:301:THR:O	40:L3:303:LYS:N	3.78	0.40
40:L3:170:PRO:HD2	40:L3:314:TYR:OH	2.21	0.40
41:L4:60:THR:HG22	41:L4:61:SER:N	2.35	0.40
42:L5:215:ASP:OD2	42:L5:217:GLU:N	2.54	0.40
42:L5:294:ALA:HB1	47:M0:217:PHE:O	4.13	0.40
42:L5:294:ALA:O	42:L5:296:GLN:N	2.42	0.40
44:L7:105:LEU:HA	44:L7:105:LEU:HD23	1.90	0.40
44:L7:66:LYS:O	44:L7:70:LYS:HB2	2.22	0.40
46:L9:48:VAL:HG12	46:L9:52:LEU:O	2.21	0.40
46:L9:76:ASP:O	46:L9:80:THR:HG23	2.56	0.40
48:M1:102:PHE:O	48:M1:129:VAL:N	2.52	0.40
49:M3:52:ASP:OD2	49:M3:141:ALA:HB3	3.19	0.40
49:M3:75:PHE:C	49:M3:76:THR:HG1	2.15	0.40
52:M6:117:ARG:HH11	52:M6:117:ARG:HD3	1.67	0.40
53:M7:16:SER:HB3	53:M7:149:VAL:HB	2.34	0.40
53:M7:48:LEU:HA	53:M7:48:LEU:HD23	1.86	0.40
53:M7:22:LEU:HD13	53:M7:90:PHE:HD2	2.12	0.40
55:M9:20:ARG:NH1	85:5:1873:U:OP2	147.29	0.40
56:N0:137:ARG:HG2	56:N0:139:TYR:CZ	2.89	0.40
56:N0:44:PHE:CD1	57:N1:153:PRO:HB3	2.55	0.40
57:N1:47:SER:O	57:N1:49:GLN:NE2	3.39	0.40
59:N3:80:ARG:HB2	59:N3:99:ALA:HB3	2.03	0.40
64:N8:27:LYS:O	64:N8:28:HIS:HB2	4.21	0.40
65:N9:15:LYS:O	65:N9:16:ALA:C	3.03	0.40
65:N9:31:SER:OG	65:N9:33:LYS:HB2	3.25	0.40
65:N9:44:LYS:HD2	65:N9:45:HIS:HD2	3.26	0.40
66:O0:25:LEU:HA	66:O0:25:LEU:HD23	1.88	0.40
66:O0:34:LEU:HD12	66:O0:34:LEU:HA	2.52	0.40
66:O0:98:SER:OG	66:O0:99:ASP:N	2.62	0.40
67:O1:64:VAL:CG2	85:5:1456:A:C6	164.46	0.40
69:O3:105:SER:OG	69:O3:106:ASN:N	2.59	0.40
69:O3:23:ASN:O	69:O3:23:ASN:OD1	2.43	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
69:O3:30:ILE:HA	69:O3:30:ILE:HD13	2.01	0.40
36:1:3279:A:N6	69:O3:54:ARG:CD	2.84	0.40
71:O5:101:THR:CG2	71:O5:104:GLN:HB2	3.34	0.40
71:O5:104:GLN:OE1	71:O5:108:GLN:NE2	5.79	0.40
71:O5:95:PHE:O	71:O5:99:GLN:HB2	4.35	0.40
73:O7:22:CYS:SG	73:O7:34:CYS:SG	3.67	0.40
73:O7:19:CYS:O	73:O7:23:GLY:HA2	2.50	0.40
73:O7:77:GLY:O	73:O7:78:PHE:C	2.96	0.40
78:Q2:46:LYS:HD3	78:Q2:54:THR:HB	2.04	0.40
2:S0:101:ARG:HG2	2:S0:103:THR:H	3.19	0.40
2:S0:172:LEU:O	2:S0:175:TYR:N	3.05	0.40
3:S1:164:ILE:O	3:S1:168:ILE:HG13	2.43	0.40
3:S1:176:VAL:HG12	3:S1:177:GLN:H	1.86	0.40
6:S4:195:ILE:HD13	6:S4:195:ILE:HG21	1.83	0.40
7:S5:77:TYR:CE2	7:S5:87:CYS:HB2	2.99	0.40
1:2:407:A:OP1	8:S6:94:ARG:NE	2.54	0.40
10:S8:31:ARG:HH21	80:6:333:A:P	297.05	0.40
35:SM:22:PRO:HB3	48:M1:38:GLU:OE2	2.21	0.40
35:SM:39:PRO:HG2	35:SM:41:SER:HB2	5.02	0.40
36:1:1165:A:H2'	36:1:1166:G:O4'	2.22	0.40
36:1:150:A:C4	36:1:151:A:C8	3.09	0.40
36:1:1645:U:H5'	36:1:1646:G:OP2	2.21	0.40
36:1:166:C:C4	36:1:167:U:C5	3.10	0.40
36:1:189:G:N2	36:1:191:U:C2	2.90	0.40
36:1:211:A:O4'	36:1:229:G:H1'	2.22	0.40
36:1:2184:U:N3	36:1:2185:G:N7	2.69	0.40
36:1:2747:A:C2	36:1:2748:A:C6	3.09	0.40
36:1:3160:U:H2'	36:1:3161:C:C6	2.56	0.40
36:1:2614:G:OP1	92:1:3705:OHX:N6	2.55	0.40
36:1:407:A:C2'	36:1:408:A:H5'	2.51	0.40
36:1:573:C:C4	36:1:574:U:C4	3.09	0.40
36:1:730:C:N3	36:1:731:U:C5	2.89	0.40
36:1:94:G:OP2	64:N8:54:GLY:N	2.40	0.40
1:2:1374:A:C4	1:2:1375:U:C5	3.09	0.40
1:2:1169:U:P	1:2:1439:C:HO2'	2.44	0.40
1:2:1578:U:H3'	1:2:1579:C:O2	2.21	0.40
92:2:1914:OHX:N5	92:2:1938:OHX:N2	2.69	0.40
92:2:1970:OHX:N1	92:2:1985:OHX:N1	2.69	0.40
1:2:426:G:N2	1:2:427:C:C2	2.90	0.40
1:2:512:A:HO2'	1:2:513:U:P	2.45	0.40
1:2:616:G:H5''	1:2:617:U:OP1	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:649:U:HO2'	1:2:650:U:P	2.41	0.40
1:2:784:G:H2'	1:2:785:G:O4'	2.21	0.40
1:2:797:A:H2'	1:2:797:A:N3	2.35	0.40
1:2:867:A:O2'	1:2:868:G:H5'	2.22	0.40
1:2:960:A:N3	1:2:1008:A:C2	2.90	0.40
85:5:1094:U:H6	85:5:1094:U:OP1	2.05	0.40
85:5:1533:U:O2'	85:5:1534:A:H5'	2.21	0.40
85:5:1666:G:H2'	85:5:1667:A:C8	2.56	0.40
85:5:2261:G:H21	85:5:2262:A:H61	1.68	0.40
85:5:3005:A:C2	85:5:3140:G:N3	2.89	0.40
85:5:3385:U:C2	85:5:3386:G:C8	3.09	0.40
85:5:521:A:N6	85:5:522:A:C6	2.90	0.40
85:5:65:A:C2	85:5:110:G:C8	3.09	0.40
54:M8:43:PRO:CB	85:5:728:G:H5''	190.69	0.40
85:5:981:U:O2'	85:5:982:C:O5'	2.40	0.40
80:6:1094:G:C6	80:6:1095:U:C4	3.10	0.40
80:6:1134:C:H6	80:6:1134:C:O5'	2.05	0.40
80:6:1372:U:C4	80:6:1373:C:C4	3.09	0.40
80:6:1410:A:H2'	80:6:1411:A:O4'	2.22	0.40
80:6:1639:C:N4	80:6:1640:C:N3	2.69	0.40
80:6:1684:U:H1'	80:6:1718:G:N2	2.37	0.40
80:6:26:A:O2'	80:6:27:U:P	2.79	0.40
80:6:271:A:H1'	80:6:285:G:H22	1.87	0.40
80:6:541:A:H8	80:6:541:A:P	2.45	0.40
13:C1:86:ILE:HD13	13:C1:86:ILE:HG21	2.38	0.40
17:C5:43:ARG:O	17:C5:47:ARG:HG3	2.21	0.40
18:C6:7:VAL:N	18:C6:22:VAL:O	2.81	0.40
18:C6:4:VAL:HG12	18:C6:23:LYS:HB2	5.78	0.40
18:C6:41:PRO:HG2	18:C6:78:VAL:HG21	2.03	0.40
1:2:1548:C:OP1	20:C8:41:ARG:HG3	2.21	0.40
20:C8:72:ILE:HG23	20:C8:79:TYR:CD2	4.73	0.40
22:D0:118:VAL:HG22	22:D0:119:ALA:H	1.86	0.40
2:S0:52:LYS:HD3	23:D1:82:VAL:HG13	5.16	0.40
24:D2:5:SER:O	24:D2:7:LEU:N	4.41	0.40
26:D4:86:GLU:OE1	26:D4:90:ARG:HD2	2.35	0.40
28:D6:12:LYS:O	28:D6:13:LYS:HB2	4.13	0.40
28:D6:4:LYS:HG3	28:D6:4:LYS:O	2.20	0.40
29:D7:61:THR:OG1	29:D7:62:ILE:N	2.54	0.40
33:E1:138:ARG:O	33:E1:139:LEU:HG	2.21	0.40
39:L2:118:GLU:HG2	39:L2:156:LYS:HZ3	1.85	0.40
39:L2:129:ALA:O	39:L2:130:SER:C	2.74	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:L2:45:VAL:HG12	39:L2:61:VAL:HG13	4.52	0.40
42:L5:187:THR:CG2	42:L5:189:GLU:HB2	3.57	0.40
42:L5:190:ILE:O	42:L5:190:ILE:HG23	2.22	0.40
43:L6:22:ARG:C	43:L6:23:LYS:HG2	2.42	0.40
44:L7:101:LYS:O	44:L7:104:GLN:HB2	2.21	0.40
44:L7:130:ILE:HG21	44:L7:130:ILE:HD13	1.85	0.40
44:L7:77:VAL:CG1	57:N1:139:ARG:HB2	6.40	0.40
36:1:3024:A:O2'	46:L9:97:PHE:HE2	2.04	0.40
47:M0:156:ARG:O	47:M0:157:TYR:C	2.59	0.40
48:M1:173:ASP:HB3	48:M1:174:LYS:H	2.43	0.40
42:L5:3:PHE:HZ	48:M1:99:THR:HG22	1.85	0.40
49:M3:154:VAL:HG23	49:M3:156:ALA:H	3.29	0.40
49:M3:172:LEU:HA	49:M3:172:LEU:HD23	1.70	0.40
36:1:80:G:OP1	51:M5:189:LYS:HE2	2.21	0.40
52:M6:167:TYR:O	52:M6:167:TYR:CD2	3.72	0.40
53:M7:78:VAL:HG22	53:M7:80:LYS:H	3.11	0.40
54:M8:135:GLN:OE1	54:M8:135:GLN:N	2.48	0.40
54:M8:60:PRO:HG2	54:M8:142:GLY:HA3	3.21	0.40
55:M9:19:LYS:C	55:M9:21:LYS:H	2.25	0.40
55:M9:96:ILE:HG21	55:M9:96:ILE:HD13	2.14	0.40
56:N0:109:ASP:O	56:N0:110:MET:C	2.85	0.40
57:N1:68:THR:HG23	57:N1:71:SER:H	1.87	0.40
59:N3:33:ASN:HD22	59:N3:33:ASN:HA	3.54	0.40
61:N5:57:LEU:HD23	61:N5:57:LEU:HA	4.56	0.40
61:N5:61:LYS:HZ1	38:8:59:A:H1'	68.27	0.40
62:N6:51:ARG:HG3	62:N6:52:ARG:O	4.82	0.40
63:N7:99:GLU:OE2	63:N7:100:THR:HG23	5.36	0.40
63:N7:46:ILE:HD12	63:N7:47:GLU:N	3.02	0.40
64:N8:74:ASN:HB3	64:N8:115:LYS:HB2	2.03	0.40
66:O0:85:PHE:HB2	66:O0:86:ARG:H	2.04	0.40
43:L6:3:ALA:HB1	68:O2:75:LEU:HD13	2.83	0.40
69:O3:6:ARG:HG2	69:O3:8:TYR:H	1.94	0.40
71:O5:45:LYS:C	71:O5:47:VAL:N	2.74	0.40
71:O5:68:GLN:O	71:O5:71:LYS:N	2.55	0.40
72:O6:43:LEU:O	72:O6:43:LEU:HD22	2.90	0.40
36:1:293:C:O2'	72:O6:76:ARG:O	2.20	0.40
73:O7:69:HIS:HB3	73:O7:72:ARG:NH2	2.37	0.40
36:1:2653:C:OP1	78:Q2:89:LYS:HB2	2.21	0.40
79:Q3:21:SER:HA	79:Q3:24:ARG:NH1	2.36	0.40
2:S0:71:GLU:HA	2:S0:95:ALA:H	1.87	0.40
3:S1:198:GLU:O	3:S1:198:GLU:HG3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S1:201:THR:HB	3:S1:207:LEU:HD12	6.33	0.40
5:S3:116:ARG:O	5:S3:120:TYR:HB2	2.21	0.40
5:S3:132:LYS:HD3	5:S3:191:ASP:HA	2.45	0.40
6:S4:116:ASP:N	6:S4:116:ASP:OD1	3.62	0.40
6:S4:52:LEU:HD23	6:S4:52:LEU:HA	1.74	0.40
8:S6:68:LEU:O	8:S6:69:LEU:O	2.62	0.40
9:S7:21:ALA:O	9:S7:24:PHE:N	3.15	0.40
9:S7:31:SER:HB2	9:S7:32:PRO:HD3	2.03	0.40
9:S7:7:LYS:HB2	9:S7:7:LYS:HE3	4.76	0.40
11:S9:11:THR:O	11:S9:47:PHE:CD2	3.77	0.40
11:S9:54:ARG:HA	11:S9:57:ARG:HE	2.78	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles [i](#)

### 5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	S0	204/206 (99%)	151 (74%)	38 (19%)	15 (7%)	1	16
2	s0	204/206 (99%)	151 (74%)	34 (17%)	19 (9%)	1	11
3	S1	212/216 (98%)	154 (73%)	34 (16%)	24 (11%)	0	7
3	s1	214/216 (99%)	166 (78%)	32 (15%)	16 (8%)	1	15
4	S2	215/217 (99%)	182 (85%)	24 (11%)	9 (4%)	3	32
4	s2	215/217 (99%)	172 (80%)	34 (16%)	9 (4%)	3	32
5	S3	221/223 (99%)	186 (84%)	24 (11%)	11 (5%)	3	27
5	s3	221/223 (99%)	176 (80%)	30 (14%)	15 (7%)	1	19
6	S4	258/260 (99%)	197 (76%)	45 (17%)	16 (6%)	2	21
6	s4	258/260 (99%)	197 (76%)	42 (16%)	19 (7%)	1	16
7	S5	204/206 (99%)	169 (83%)	20 (10%)	15 (7%)	1	16

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
7	s5	204/206 (99%)	159 (78%)	35 (17%)	10 (5%)	3	27
8	S6	224/226 (99%)	186 (83%)	23 (10%)	15 (7%)	1	19
8	s6	216/226 (96%)	182 (84%)	22 (10%)	12 (6%)	2	24
9	S7	182/186 (98%)	134 (74%)	36 (20%)	12 (7%)	1	19
9	s7	184/186 (99%)	143 (78%)	28 (15%)	13 (7%)	1	17
10	S8	184/188 (98%)	150 (82%)	25 (14%)	9 (5%)	3	27
10	s8	184/188 (98%)	156 (85%)	23 (12%)	5 (3%)	6	44
11	S9	183/185 (99%)	143 (78%)	33 (18%)	7 (4%)	4	35
11	s9	183/185 (99%)	149 (81%)	26 (14%)	8 (4%)	3	30
12	C0	82/96 (85%)	69 (84%)	10 (12%)	3 (4%)	4	36
13	C1	145/155 (94%)	113 (78%)	28 (19%)	4 (3%)	6	43
13	c1	144/155 (93%)	115 (80%)	25 (17%)	4 (3%)	6	43
14	C2	118/124 (95%)	76 (64%)	26 (22%)	16 (14%)	0	4
14	c2	118/124 (95%)	77 (65%)	30 (25%)	11 (9%)	1	11
15	C3	148/150 (99%)	125 (84%)	17 (12%)	6 (4%)	3	33
15	c3	148/150 (99%)	122 (82%)	18 (12%)	8 (5%)	2	25
16	C4	125/128 (98%)	90 (72%)	23 (18%)	12 (10%)	1	10
16	c4	126/128 (98%)	101 (80%)	15 (12%)	10 (8%)	1	14
17	C5	121/135 (90%)	90 (74%)	20 (16%)	11 (9%)	1	11
17	c5	125/135 (93%)	89 (71%)	23 (18%)	13 (10%)	1	8
18	C6	139/142 (98%)	115 (83%)	13 (9%)	11 (8%)	1	14
18	c6	140/142 (99%)	121 (86%)	15 (11%)	4 (3%)	6	42
19	C7	116/120 (97%)	90 (78%)	16 (14%)	10 (9%)	1	12
20	C8	143/145 (99%)	113 (79%)	22 (15%)	8 (6%)	2	24
20	c8	143/145 (99%)	113 (79%)	19 (13%)	11 (8%)	1	14
21	C9	141/143 (99%)	121 (86%)	10 (7%)	10 (7%)	1	17
21	c9	141/143 (99%)	124 (88%)	13 (9%)	4 (3%)	6	43
22	D0	105/110 (96%)	89 (85%)	13 (12%)	3 (3%)	6	42
22	d0	108/110 (98%)	86 (80%)	15 (14%)	7 (6%)	1	20
23	D1	85/87 (98%)	62 (73%)	11 (13%)	12 (14%)	0	4
23	d1	85/87 (98%)	64 (75%)	13 (15%)	8 (9%)	1	10

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
24	D2	127/129 (98%)	109 (86%)	14 (11%)	4 (3%)	5	41
24	d2	127/129 (98%)	105 (83%)	19 (15%)	3 (2%)	7	47
25	D3	142/144 (99%)	109 (77%)	26 (18%)	7 (5%)	3	27
25	d3	142/144 (99%)	116 (82%)	23 (16%)	3 (2%)	9	50
26	D4	132/134 (98%)	103 (78%)	20 (15%)	9 (7%)	1	19
26	d4	132/134 (98%)	109 (83%)	14 (11%)	9 (7%)	1	19
27	D5	68/70 (97%)	46 (68%)	13 (19%)	9 (13%)	0	5
27	d5	67/70 (96%)	53 (79%)	10 (15%)	4 (6%)	2	21
28	D6	95/97 (98%)	53 (56%)	26 (27%)	16 (17%)	0	3
28	d6	95/97 (98%)	75 (79%)	13 (14%)	7 (7%)	1	16
29	D7	79/81 (98%)	59 (75%)	20 (25%)	0	100	100
29	d7	79/81 (98%)	58 (73%)	18 (23%)	3 (4%)	4	35
30	D8	61/63 (97%)	49 (80%)	9 (15%)	3 (5%)	3	27
30	d8	61/63 (97%)	45 (74%)	14 (23%)	2 (3%)	5	39
31	D9	51/53 (96%)	40 (78%)	9 (18%)	2 (4%)	4	34
31	d9	51/53 (96%)	42 (82%)	2 (4%)	7 (14%)	0	4
32	E0	58/62 (94%)	46 (79%)	8 (14%)	4 (7%)	1	18
32	e0	60/62 (97%)	46 (77%)	11 (18%)	3 (5%)	3	27
33	E1	69/76 (91%)	38 (55%)	22 (32%)	9 (13%)	0	5
33	e1	74/76 (97%)	36 (49%)	19 (26%)	19 (26%)	0	1
34	SR	316/318 (99%)	262 (83%)	41 (13%)	13 (4%)	3	33
35	SM	120/159 (76%)	94 (78%)	15 (12%)	11 (9%)	1	11
39	L2	250/252 (99%)	218 (87%)	25 (10%)	7 (3%)	6	43
39	l2	250/252 (99%)	200 (80%)	32 (13%)	18 (7%)	1	17
40	L3	384/386 (100%)	323 (84%)	44 (12%)	17 (4%)	3	30
40	l3	384/386 (100%)	329 (86%)	36 (9%)	19 (5%)	3	27
41	L4	359/361 (99%)	288 (80%)	44 (12%)	27 (8%)	1	15
41	l4	359/361 (99%)	284 (79%)	48 (13%)	27 (8%)	1	15
42	L5	294/296 (99%)	232 (79%)	43 (15%)	19 (6%)	1	20
42	l5	292/296 (99%)	236 (81%)	41 (14%)	15 (5%)	2	26
43	L6	152/175 (87%)	130 (86%)	19 (12%)	3 (2%)	9	51

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles		
43	l6	153/175 (87%)	128 (84%)	22 (14%)	3 (2%)	9	51	
44	L7	220/223 (99%)	184 (84%)	27 (12%)	9 (4%)	3	33	
44	l7	221/223 (99%)	185 (84%)	30 (14%)	6 (3%)	6	44	
45	L8	231/233 (99%)	180 (78%)	34 (15%)	17 (7%)	1	16	
46	L9	189/191 (99%)	155 (82%)	22 (12%)	12 (6%)	2	21	
46	l9	189/191 (99%)	161 (85%)	24 (13%)	4 (2%)	9	50	
47	M0	207/220 (94%)	157 (76%)	39 (19%)	11 (5%)	2	25	
47	m0	209/220 (95%)	162 (78%)	33 (16%)	14 (7%)	1	19	
48	M1	167/169 (99%)	125 (75%)	22 (13%)	20 (12%)	0	6	
48	m1	167/169 (99%)	132 (79%)	27 (16%)	8 (5%)	3	28	
49	M3	191/194 (98%)	150 (78%)	31 (16%)	10 (5%)	2	25	
49	m3	192/194 (99%)	150 (78%)	29 (15%)	13 (7%)	1	19	
50	M4	134/137 (98%)	112 (84%)	15 (11%)	7 (5%)	2	25	
50	m4	135/137 (98%)	107 (79%)	24 (18%)	4 (3%)	5	42	
51	M5	201/203 (99%)	162 (81%)	33 (16%)	6 (3%)	5	42	
51	m5	201/203 (99%)	164 (82%)	30 (15%)	7 (4%)	4	38	
52	M6	195/197 (99%)	173 (89%)	19 (10%)	3 (2%)	13	56	
52	m6	195/197 (99%)	176 (90%)	13 (7%)	6 (3%)	5	41	
53	M7	181/183 (99%)	141 (78%)	29 (16%)	11 (6%)	2	21	
53	m7	153/183 (84%)	128 (84%)	20 (13%)	5 (3%)	5	39	
54	M8	183/185 (99%)	155 (85%)	22 (12%)	6 (3%)	5	39	
54	m8	183/185 (99%)	152 (83%)	21 (12%)	10 (6%)	2	24	
55	M9	186/188 (99%)	161 (87%)	19 (10%)	6 (3%)	5	40	
55	m9	186/188 (99%)	163 (88%)	23 (12%)	0	100	100	
56	N0	170/172 (99%)	139 (82%)	27 (16%)	4 (2%)	7	47	
56	n0	170/172 (99%)	149 (88%)	20 (12%)	1 (1%)	30	75	
57	N1	157/159 (99%)	129 (82%)	22 (14%)	6 (4%)	4	35	
57	n1	157/159 (99%)	138 (88%)	15 (10%)	4 (2%)	7	46	
58	N2	98/100 (98%)	72 (74%)	19 (19%)	7 (7%)	1	17	
58	n2	96/100 (96%)	70 (73%)	23 (24%)	3 (3%)	5	41	
59	N3	134/136 (98%)	108 (81%)	21 (16%)	5 (4%)	4	36	

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
59	n3	134/136 (98%)	113 (84%)	19 (14%)	2 (2%)	13	56
60	N4	96/98 (98%)	75 (78%)	16 (17%)	5 (5%)	2	25
61	N5	119/121 (98%)	99 (83%)	17 (14%)	3 (2%)	7	46
61	n5	118/121 (98%)	90 (76%)	16 (14%)	12 (10%)	1	9
62	N6	124/126 (98%)	109 (88%)	12 (10%)	3 (2%)	7	47
62	n6	124/126 (98%)	104 (84%)	15 (12%)	5 (4%)	4	33
63	N7	133/135 (98%)	106 (80%)	17 (13%)	10 (8%)	1	15
63	n7	133/135 (98%)	93 (70%)	26 (20%)	14 (10%)	1	8
64	N8	146/148 (99%)	112 (77%)	28 (19%)	6 (4%)	3	33
64	n8	146/148 (99%)	118 (81%)	17 (12%)	11 (8%)	1	15
65	N9	56/58 (97%)	47 (84%)	8 (14%)	1 (2%)	11	53
65	n9	56/58 (97%)	39 (70%)	11 (20%)	6 (11%)	0	8
66	O0	95/100 (95%)	87 (92%)	7 (7%)	1 (1%)	17	63
66	o0	98/100 (98%)	83 (85%)	11 (11%)	4 (4%)	3	33
67	O1	107/109 (98%)	90 (84%)	10 (9%)	7 (6%)	1	20
67	o1	107/109 (98%)	84 (78%)	16 (15%)	7 (6%)	1	20
68	O2	125/127 (98%)	112 (90%)	11 (9%)	2 (2%)	12	55
68	o2	125/127 (98%)	100 (80%)	18 (14%)	7 (6%)	2	24
69	O3	104/106 (98%)	90 (86%)	8 (8%)	6 (6%)	2	23
69	o3	104/106 (98%)	92 (88%)	10 (10%)	2 (2%)	10	51
70	O4	110/112 (98%)	91 (83%)	17 (16%)	2 (2%)	11	53
70	o4	110/112 (98%)	92 (84%)	15 (14%)	3 (3%)	6	44
71	O5	117/119 (98%)	105 (90%)	9 (8%)	3 (3%)	7	45
71	o5	117/119 (98%)	93 (80%)	17 (14%)	7 (6%)	2	21
72	O6	97/99 (98%)	76 (78%)	11 (11%)	10 (10%)	1	9
72	o6	97/99 (98%)	84 (87%)	7 (7%)	6 (6%)	2	21
73	O7	85/87 (98%)	72 (85%)	10 (12%)	3 (4%)	4	38
73	o7	85/87 (98%)	66 (78%)	17 (20%)	2 (2%)	7	47
74	O8	75/77 (97%)	61 (81%)	11 (15%)	3 (4%)	4	33
74	o8	75/77 (97%)	59 (79%)	11 (15%)	5 (7%)	1	19
75	O9	48/50 (96%)	39 (81%)	8 (17%)	1 (2%)	9	50

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
75	o9	48/50 (96%)	43 (90%)	2 (4%)	3 (6%)	2	21
76	Q0	50/52 (96%)	41 (82%)	4 (8%)	5 (10%)	1	9
76	q0	50/52 (96%)	46 (92%)	3 (6%)	1 (2%)	9	51
77	Q1	23/25 (92%)	19 (83%)	4 (17%)	0	100	100
77	q1	23/25 (92%)	19 (83%)	4 (17%)	0	100	100
78	Q2	103/105 (98%)	76 (74%)	20 (19%)	7 (7%)	1	19
78	q2	103/105 (98%)	89 (86%)	9 (9%)	5 (5%)	3	27
79	Q3	89/91 (98%)	71 (80%)	16 (18%)	2 (2%)	8	49
79	q3	89/91 (98%)	70 (79%)	15 (17%)	4 (4%)	3	30
81	c0	78/96 (81%)	63 (81%)	8 (10%)	7 (9%)	1	11
82	c7	113/121 (93%)	87 (77%)	19 (17%)	7 (6%)	2	21
83	sR	316/318 (99%)	252 (80%)	51 (16%)	13 (4%)	3	33
84	sM	61/104 (59%)	45 (74%)	12 (20%)	4 (7%)	1	19
86	l8	224/231 (97%)	178 (80%)	28 (12%)	18 (8%)	1	13
88	n4	133/135 (98%)	109 (82%)	12 (9%)	12 (9%)	1	11
89	p0	117/143 (82%)	98 (84%)	15 (13%)	4 (3%)	5	39
All	All	22183/22802 (97%)	17856 (80%)	3104 (14%)	1223 (6%)	2	24

All (1223) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	S0	4	PRO
2	S0	39	ASN
2	S0	158	VAL
2	S0	191	ARG
2	S0	195	TRP
2	S0	202	TYR
3	S1	37	THR
3	S1	63	GLY
3	S1	132	ASP
3	S1	177	GLN
4	S2	106	ASP
5	S3	62	ASN
5	S3	65	ARG
5	S3	93	ASP
5	S3	220	PRO

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Mol	Chain	Res	Type
6	S4	82	TYR
6	S4	104	ASP
7	S5	31	GLU
7	S5	39	GLU
7	S5	51	VAL
7	S5	153	GLY
8	S6	153	VAL
8	S6	154	ARG
8	S6	173	PRO
9	S7	64	VAL
9	S7	131	PHE
10	S8	149	SER
11	S9	93	LEU
11	S9	134	ILE
11	S9	169	PRO
12	C0	60	SER
14	C2	127	GLY
15	C3	28	LEU
15	C3	138	ASN
17	C5	125	PRO
18	C6	32	ASN
18	C6	41	PRO
18	C6	114	ARG
19	C7	85	VAL
19	C7	86	PRO
19	C7	88	VAL
19	C7	124	VAL
20	C8	14	ILE
20	C8	92	ILE
21	C9	31	PRO
21	C9	53	TRP
21	C9	69	LYS
24	D2	78	ARG
25	D3	92	CYS
25	D3	138	GLU
26	D4	36	SER
26	D4	100	VAL
27	D5	44	GLN
27	D5	71	ILE
28	D6	45	VAL
28	D6	82	ARG
28	D6	84	VAL

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Mol	Chain	Res	Type
28	D6	86	VAL
32	E0	47	VAL
32	E0	51	ASN
33	E1	84	VAL
33	E1	144	CYS
34	SR	50	ASP
34	SR	161	ALA
35	SM	86	ASN
35	SM	140	ASP
39	L2	47	GLN
40	L3	5	LYS
40	L3	140	ASP
40	L3	348	ARG
41	L4	130	ALA
41	L4	270	SER
41	L4	292	SER
41	L4	293	SER
41	L4	313	LEU
41	L4	339	LEU
42	L5	57	ASN
42	L5	213	ASP
42	L5	233	ALA
42	L5	234	ASP
42	L5	293	LEU
43	L6	5	LYS
43	L6	98	VAL
44	L7	24	GLU
44	L7	175	LYS
45	L8	25	PRO
45	L8	31	PRO
45	L8	254	ASP
45	L8	255	SER
46	L9	50	ASN
46	L9	190	ASP
48	M1	8	PRO
48	M1	11	ASP
48	M1	89	TYR
48	M1	94	ARG
48	M1	115	LYS
48	M1	140	ARG
48	M1	151	SER
48	M1	152	HIS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
48	M1	165	GLN
49	M3	51	LEU
49	M3	129	ASN
50	M4	8	LYS
50	M4	9	ALA
50	M4	36	VAL
51	M5	74	PRO
51	M5	81	TYR
51	M5	83	LYS
52	M6	111	PRO
53	M7	67	ILE
53	M7	161	ALA
53	M7	169	THR
58	N2	31	ALA
58	N2	52	ASN
60	N4	80	ARG
60	N4	81	PRO
61	N5	44	PRO
62	N6	31	LEU
63	N7	30	ASP
63	N7	35	SER
64	N8	57	GLY
64	N8	96	LYS
64	N8	97	GLU
67	O1	83	GLU
69	O3	59	VAL
71	O5	89	ARG
71	O5	119	LYS
72	O6	33	ALA
73	O7	87	SER
76	Q0	78	ILE
76	Q0	117	HIS
78	Q2	30	ALA
78	Q2	100	LYS
79	Q3	18	TYR
2	s0	4	PRO
2	s0	29	VAL
2	s0	65	ALA
2	s0	66	ALA
2	s0	68	PRO
2	s0	164	ASN
2	s0	189	VAL

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Mol	Chain	Res	Type
2	s0	206	ASP
3	s1	37	THR
3	s1	106	THR
3	s1	232	HIS
4	s2	92	ALA
4	s2	249	ALA
5	s3	219	ALA
5	s3	220	PRO
6	s4	163	ASP
6	s4	195	ILE
6	s4	196	VAL
7	s5	100	ASN
7	s5	101	GLY
7	s5	154	ALA
8	s6	70	PRO
8	s6	154	ARG
8	s6	164	LYS
8	s6	173	PRO
8	s6	174	LYS
9	s7	64	VAL
9	s7	66	SER
9	s7	131	PHE
9	s7	155	ASP
9	s7	163	ASP
81	c0	2	LEU
13	c1	133	LYS
14	c2	101	ALA
15	c3	66	ILE
16	c4	51	ASP
17	c5	11	VAL
17	c5	17	TYR
17	c5	52	LYS
17	c5	125	PRO
17	c5	126	VAL
18	c6	116	LEU
82	c7	67	ARG
82	c7	88	VAL
82	c7	99	VAL
20	c8	14	ILE
20	c8	91	ASP
20	c8	135	GLY
21	c9	29	GLU

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Mol	Chain	Res	Type
22	d0	49	ASN
22	d0	118	VAL
23	d1	42	GLU
24	d2	56	HIS
24	d2	68	ARG
26	d4	32	ARG
26	d4	33	ALA
29	d7	59	CYS
29	d7	60	SER
31	d9	6	VAL
31	d9	16	LYS
33	e1	87	THR
33	e1	92	LYS
33	e1	102	VAL
83	sR	163	ASP
83	sR	165	ASP
83	sR	226	ALA
39	l2	56	ALA
39	l2	142	ASP
39	l2	144	ASN
39	l2	194	ASN
39	l2	217	GLN
39	l2	227	ARG
39	l2	238	ILE
40	l3	115	LYS
40	l3	129	ALA
40	l3	140	ASP
40	l3	348	ARG
40	l3	385	LYS
40	l3	386	ASP
41	l4	15	ALA
41	l4	25	VAL
41	l4	90	PHE
41	l4	252	GLU
41	l4	272	VAL
41	l4	305	ALA
41	l4	311	HIS
42	l5	9	SER
42	l5	123	GLU
42	l5	258	LYS
42	l5	260	PHE
42	l5	270	LYS

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Mol	Chain	Res	Type
44	l7	158	LYS
44	l7	191	VAL
44	l7	228	SER
86	l8	25	PRO
86	l8	122	LYS
86	l8	208	GLU
86	l8	223	ALA
46	l9	167	VAL
47	m0	82	ARG
47	m0	145	LYS
47	m0	196	PHE
48	m1	8	PRO
48	m1	108	GLU
48	m1	167	TYR
49	m3	47	ALA
49	m3	150	PRO
50	m4	136	ALA
51	m5	91	GLU
51	m5	169	LYS
52	m6	16	VAL
52	m6	85	ARG
52	m6	110	PRO
54	m8	84	VAL
54	m8	99	THR
56	n0	129	ILE
57	n1	55	LYS
59	n3	68	GLU
88	n4	26	SER
61	n5	40	LEU
61	n5	48	SER
62	n6	83	ASP
62	n6	84	LYS
63	n7	3	LYS
63	n7	5	LEU
63	n7	7	ALA
63	n7	17	ARG
63	n7	129	TRP
64	n8	76	ASP
65	n9	19	ASN
65	n9	21	ILE
65	n9	23	LYS
65	n9	24	PRO

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Mol	Chain	Res	Type
66	o0	10	ILE
67	o1	83	GLU
68	o2	5	PRO
68	o2	19	ARG
68	o2	124	GLY
68	o2	125	ARG
69	o3	60	ARG
70	o4	82	ALA
71	o5	54	VAL
72	o6	3	VAL
72	o6	33	ALA
72	o6	34	SER
73	o7	61	THR
74	o8	18	ALA
75	o9	4	GLN
78	q2	78	LYS
79	q3	18	TYR
89	p0	93	LEU
2	S0	36	TYR
2	S0	190	ASP
3	S1	26	ARG
3	S1	35	PRO
3	S1	58	SER
3	S1	158	SER
3	S1	206	PRO
3	S1	221	PRO
4	S2	134	LEU
4	S2	148	LEU
6	S4	12	LEU
6	S4	150	PRO
7	S5	43	PHE
7	S5	63	GLN
7	S5	64	VAL
7	S5	65	ARG
7	S5	101	GLY
7	S5	204	GLY
8	S6	25	ARG
8	S6	122	GLU
8	S6	165	GLY
9	S7	29	ASN
9	S7	32	PRO
9	S7	116	ARG

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Mol	Chain	Res	Type
9	S7	186	PRO
10	S8	59	ARG
13	C1	133	LYS
14	C2	83	GLU
14	C2	91	VAL
14	C2	106	ILE
14	C2	112	ALA
14	C2	119	SER
14	C2	125	ASN
14	C2	130	THR
15	C3	22	ALA
15	C3	68	GLY
16	C4	39	ILE
16	C4	42	VAL
16	C4	51	ASP
16	C4	92	LYS
16	C4	126	THR
17	C5	48	GLY
17	C5	126	VAL
18	C6	39	VAL
18	C6	97	VAL
18	C6	136	SER
18	C6	142	TYR
19	C7	87	GLU
20	C8	60	GLU
21	C9	116	ILE
23	D1	2	GLU
23	D1	7	GLN
23	D1	15	ARG
23	D1	42	GLU
23	D1	82	VAL
25	D3	3	LYS
25	D3	112	LYS
26	D4	53	ASP
26	D4	54	ALA
27	D5	43	ASP
30	D8	36	THR
32	E0	59	GLY
33	E1	98	VAL
33	E1	145	HIS
34	SR	51	ASP
34	SR	146	GLY

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
34	SR	194	GLY
34	SR	318	ALA
35	SM	46	LYS
35	SM	47	ALA
35	SM	87	THR
39	L2	143	GLU
40	L3	4	ARG
40	L3	155	ALA
40	L3	174	LYS
40	L3	186	GLY
40	L3	221	THR
41	L4	15	ALA
41	L4	59	GLN
41	L4	183	LYS
41	L4	220	ARG
41	L4	259	ASP
41	L4	268	ALA
41	L4	273	GLY
41	L4	311	HIS
42	L5	22	ARG
42	L5	125	VAL
42	L5	137	ASP
42	L5	188	GLU
42	L5	252	ALA
42	L5	253	PHE
43	L6	32	ALA
44	L7	160	ARG
45	L8	190	VAL
46	L9	2	LYS
46	L9	59	ASN
46	L9	76	ASP
46	L9	77	ASN
46	L9	95	ALA
47	M0	117	GLY
47	M0	187	ALA
47	M0	194	GLY
47	M0	207	GLU
47	M0	218	ALA
48	M1	95	ASN
48	M1	111	ASP
48	M1	114	ILE
48	M1	167	TYR

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Mol	Chain	Res	Type
48	M1	173	ASP
49	M3	47	ALA
49	M3	76	THR
49	M3	136	GLU
50	M4	137	LYS
53	M7	157	VAL
53	M7	159	LYS
56	N0	53	LYS
57	N1	57	TYR
57	N1	124	VAL
57	N1	146	ASN
58	N2	11	ILE
58	N2	51	GLY
59	N3	3	GLY
59	N3	5	GLY
59	N3	132	ASN
60	N4	64	THR
60	N4	97	LYS
61	N5	117	ASN
62	N6	84	LYS
63	N7	4	PHE
63	N7	16	GLY
63	N7	124	ALA
63	N7	125	GLY
66	O0	96	GLY
67	O1	6	ASP
69	O3	70	LYS
69	O3	91	ALA
71	O5	39	PRO
72	O6	21	THR
72	O6	27	SER
72	O6	64	SER
72	O6	77	LEU
72	O6	94	ILE
74	O8	74	LYS
75	O9	4	GLN
78	Q2	15	LYS
78	Q2	17	CYS
78	Q2	94	GLY
79	Q3	84	ARG
2	s0	95	ALA
2	s0	148	ASP

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Mol	Chain	Res	Type
2	s0	200	ASP
3	s1	26	ARG
3	s1	82	ARG
3	s1	147	ALA
3	s1	177	GLN
4	s2	91	ARG
4	s2	163	GLY
5	s3	44	THR
5	s3	61	GLU
5	s3	76	ARG
5	s3	90	ARG
5	s3	211	PRO
5	s3	216	PRO
6	s4	104	ASP
7	s5	39	GLU
7	s5	43	PHE
8	s6	153	VAL
9	s7	74	GLN
10	s8	41	LYS
81	c0	23	ALA
81	c0	32	HIS
13	c1	7	VAL
14	c2	89	ILE
14	c2	106	ILE
15	c3	26	PHE
15	c3	29	SER
15	c3	140	LYS
16	c4	124	ASP
16	c4	125	SER
17	c5	50	THR
17	c5	68	PRO
17	c5	127	ARG
17	c5	132	GLY
18	c6	42	GLU
20	c8	8	GLN
20	c8	18	LEU
20	c8	90	ASN
20	c8	92	ILE
21	c9	28	LEU
22	d0	15	GLN
22	d0	96	PRO
23	d1	77	GLY

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Mol	Chain	Res	Type
25	d3	27	ASN
25	d3	70	LYS
26	d4	35	VAL
26	d4	54	ALA
26	d4	78	SER
26	d4	117	LYS
27	d5	85	LYS
27	d5	104	ALA
28	d6	15	ARG
31	d9	22	ARG
33	e1	83	LYS
33	e1	98	VAL
33	e1	103	LEU
33	e1	127	GLY
33	e1	137	ASP
83	sR	298	GLY
39	l2	212	GLY
39	l2	239	ALA
39	l2	247	ARG
40	l3	3	HIS
40	l3	138	ALA
40	l3	142	ALA
40	l3	186	GLY
40	l3	187	SER
40	l3	247	ARG
40	l3	302	LYS
40	l3	368	GLY
41	l4	11	LEU
41	l4	14	GLU
41	l4	43	ASN
41	l4	55	LYS
41	l4	146	PRO
41	l4	220	ARG
41	l4	233	LEU
41	l4	342	LYS
41	l4	346	LYS
42	l5	115	LEU
42	l5	178	ASN
43	l6	10	TYR
86	l8	133	LYS
46	l9	2	LYS
46	l9	144	ILE

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Mol	Chain	Res	Type
47	m0	3	ARG
47	m0	38	LYS
47	m0	75	TYR
47	m0	81	GLY
47	m0	83	ASP
47	m0	187	ALA
48	m1	65	ILE
49	m3	51	LEU
49	m3	62	THR
49	m3	134	GLU
49	m3	152	THR
50	m4	9	ALA
50	m4	11	ASN
51	m5	184	LYS
52	m6	5	PRO
53	m7	3	ARG
53	m7	88	VAL
53	m7	109	ALA
54	m8	95	GLU
57	n1	135	PRO
58	n2	35	LYS
58	n2	90	ARG
59	n3	42	SER
88	n4	63	ILE
88	n4	76	VAL
88	n4	133	THR
61	n5	55	ASN
61	n5	62	VAL
61	n5	77	GLU
62	n6	125	LYS
63	n7	85	TYR
63	n7	91	ALA
63	n7	92	PHE
63	n7	125	GLY
64	n8	15	VAL
64	n8	48	TYR
66	o0	85	PHE
66	o0	101	LEU
67	o1	5	LYS
67	o1	45	GLY
67	o1	99	ALA
70	o4	14	ASN

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Mol	Chain	Res	Type
71	o5	81	ARG
71	o5	119	LYS
72	o6	20	MET
73	o7	87	SER
74	o8	17	ARG
75	o9	3	ALA
75	o9	39	ALA
78	q2	14	GLY
89	p0	68	SER
2	S0	5	ALA
2	S0	30	GLN
2	S0	94	GLY
3	S1	48	VAL
3	S1	54	LEU
3	S1	148	ASN
4	S2	91	ARG
4	S2	92	ALA
5	S3	143	ARG
5	S3	216	PRO
6	S4	23	LEU
6	S4	77	ARG
6	S4	168	LYS
6	S4	234	PRO
8	S6	138	ALA
8	S6	148	SER
8	S6	152	ASP
9	S7	74	GLN
9	S7	133	THR
10	S8	40	ALA
10	S8	120	THR
11	S9	98	ALA
13	C1	7	VAL
13	C1	55	ASP
14	C2	69	ALA
14	C2	93	ASP
14	C2	107	ASP
16	C4	75	GLY
16	C4	114	ARG
16	C4	124	ASP
17	C5	66	ALA
17	C5	69	GLU
17	C5	130	ARG

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Mol	Chain	Res	Type
18	C6	14	LYS
18	C6	138	PHE
19	C7	115	LEU
20	C8	76	PRO
21	C9	33	TYR
21	C9	39	THR
21	C9	50	ALA
21	C9	119	LYS
23	D1	4	ASP
23	D1	8	LEU
23	D1	10	GLU
23	D1	12	TYR
25	D3	96	VAL
26	D4	4	ALA
26	D4	34	ASN
27	D5	39	ALA
27	D5	94	LYS
28	D6	85	ARG
33	E1	87	THR
33	E1	106	TYR
33	E1	118	ARG
34	SR	238	ASP
35	SM	48	ARG
39	L2	130	SER
40	L3	24	SER
40	L3	258	ALA
40	L3	374	ALA
41	L4	14	GLU
41	L4	90	PHE
41	L4	269	SER
42	L5	7	ALA
42	L5	185	PHE
42	L5	221	GLU
42	L5	295	GLY
44	L7	25	GLN
45	L8	32	LYS
45	L8	39	ALA
45	L8	75	ILE
46	L9	96	HIS
47	M0	82	ARG
47	M0	143	SER
47	M0	148	VAL

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Mol	Chain	Res	Type
48	M1	55	ARG
48	M1	64	LYS
49	M3	19	GLN
49	M3	46	ILE
50	M4	10	SER
52	M6	110	PRO
53	M7	163	LYS
54	M8	99	THR
57	N1	38	ASP
58	N2	60	GLY
63	N7	102	GLU
63	N7	127	ASN
67	O1	84	ASP
67	O1	99	ALA
68	O2	125	ARG
69	O3	14	LEU
69	O3	90	PRO
72	O6	3	VAL
73	O7	20	ASN
73	O7	59	THR
74	O8	18	ALA
2	s0	8	ASP
2	s0	30	GLN
2	s0	92	HIS
2	s0	194	PRO
3	s1	40	ASN
3	s1	93	GLY
3	s1	117	TRP
3	s1	154	SER
4	s2	62	PRO
4	s2	236	PRO
5	s3	65	ARG
5	s3	160	SER
5	s3	180	GLY
6	s4	11	ARG
6	s4	107	GLY
6	s4	164	LEU
6	s4	232	GLY
8	s6	152	ASP
9	s7	11	GLN
9	s7	106	SER
9	s7	111	LYS

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Mol	Chain	Res	Type
9	s7	156	SER
10	s8	101	ILE
10	s8	122	GLY
11	s9	82	ARG
11	s9	169	PRO
81	c0	30	ALA
14	c2	39	ASP
14	c2	107	ASP
14	c2	109	GLU
15	c3	139	TRP
16	c4	37	GLU
17	c5	80	MET
21	c9	142	GLU
22	d0	51	VAL
22	d0	72	ASN
23	d1	2	GLU
23	d1	40	ASP
27	d5	69	LEU
28	d6	58	VAL
30	d8	61	ARG
31	d9	17	GLY
31	d9	25	SER
33	e1	81	LYS
33	e1	84	VAL
33	e1	100	LEU
33	e1	110	ALA
33	e1	111	GLU
33	e1	128	ALA
83	sR	47	LEU
83	sR	97	GLY
83	sR	160	GLU
83	sR	161	LYS
83	sR	318	ALA
39	l2	143	GLU
40	l3	23	ALA
41	l4	24	ALA
41	l4	142	VAL
41	l4	157	GLU
41	l4	247	PHE
42	l5	163	LEU
42	l5	188	GLU
42	l5	252	ALA

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Mol	Chain	Res	Type
42	l5	296	GLN
43	l6	98	VAL
44	l7	91	GLY
44	l7	112	ASN
86	l8	39	ALA
86	l8	69	LEU
86	l8	121	SER
86	l8	203	VAL
86	l8	239	GLY
47	m0	25	ALA
47	m0	146	ASP
47	m0	180	GLU
48	m1	40	LEU
48	m1	114	ILE
49	m3	87	ALA
50	m4	49	PRO
51	m5	86	ASN
51	m5	90	ASN
53	m7	37	ASN
53	m7	132	ALA
54	m8	108	ALA
54	m8	113	LYS
57	n1	127	GLN
88	n4	64	THR
88	n4	71	ARG
88	n4	83	THR
61	n5	24	LEU
61	n5	39	LYS
61	n5	47	ALA
63	n7	70	PRO
63	n7	103	GLN
63	n7	128	GLN
64	n8	12	ARG
64	n8	78	LEU
65	n9	25	LYS
67	o1	26	LYS
67	o1	84	ASP
68	o2	6	HIS
68	o2	17	PHE
71	o5	21	LEU
71	o5	37	SER
71	o5	82	ALA

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Mol	Chain	Res	Type
71	o5	99	GLN
78	q2	17	CYS
2	S0	103	THR
2	S0	192	THR
3	S1	51	SER
3	S1	62	LYS
3	S1	176	VAL
4	S2	35	TRP
4	S2	150	GLN
5	S3	217	ILE
6	S4	95	THR
6	S4	166	SER
6	S4	195	ILE
6	S4	245	LYS
7	S5	58	LEU
7	S5	99	MET
7	S5	127	GLN
8	S6	69	LEU
8	S6	146	GLY
10	S8	10	LYS
10	S8	22	ARG
10	S8	52	ASN
10	S8	152	ILE
12	C0	64	TYR
16	C4	18	ARG
16	C4	109	GLY
17	C5	52	LYS
17	C5	54	ALA
19	C7	122	ILE
19	C7	125	SER
20	C8	61	LEU
20	C8	91	ASP
21	C9	85	SER
22	D0	21	LYS
22	D0	72	ASN
23	D1	16	LYS
23	D1	26	ALA
24	D2	30	SER
24	D2	71	LYS
25	D3	114	LYS
26	D4	5	VAL
26	D4	6	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
26	D4	35	VAL
28	D6	8	ASN
28	D6	11	ASN
28	D6	18	VAL
28	D6	46	GLU
30	D8	6	PRO
30	D8	61	ARG
33	E1	86	THR
34	SR	15	GLY
34	SR	163	ASP
35	SM	63	ASP
35	SM	139	GLU
39	L2	201	GLY
39	L2	251	LYS
40	L3	187	SER
41	L4	64	SER
41	L4	146	PRO
41	L4	233	LEU
42	L5	215	ASP
42	L5	258	LYS
42	L5	259	LYS
44	L7	163	LEU
45	L8	109	LEU
45	L8	189	LEU
45	L8	204	ARG
51	M5	52	GLY
53	M7	96	GLN
53	M7	158	ALA
53	M7	160	ALA
53	M7	164	LYS
54	M8	98	LYS
54	M8	162	ALA
55	M9	35	ALA
55	M9	53	LYS
55	M9	130	ASN
56	N0	24	LEU
57	N1	18	ASP
59	N3	16	GLY
63	N7	103	GLN
64	N8	47	LYS
67	O1	82	GLU
68	O2	27	ARG

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Mol	Chain	Res	Type
69	O3	40	ASP
70	O4	82	ALA
72	O6	19	SER
72	O6	34	SER
74	O8	33	LYS
78	Q2	8	ARG
3	s1	209	ASN
4	s2	150	GLN
4	s2	235	LEU
4	s2	238	SER
5	s3	217	ILE
6	s4	30	ARG
6	s4	119	ALA
7	s5	29	ILE
7	s5	184	PHE
8	s6	68	LEU
8	s6	122	GLU
8	s6	156	PHE
9	s7	73	VAL
9	s7	133	THR
9	s7	146	GLY
10	s8	94	ASN
11	s9	6	ARG
11	s9	121	SER
11	s9	167	ALA
81	c0	31	LYS
81	c0	35	ILE
13	c1	130	PRO
16	c4	50	ALA
17	c5	130	ARG
18	c6	55	VAL
82	c7	63	LYS
82	c7	116	LYS
82	c7	117	LEU
20	c8	7	GLU
20	c8	60	GLU
20	c8	144	ARG
21	c9	33	TYR
23	d1	6	GLY
24	d2	5	SER
26	d4	51	GLU
28	d6	35	ALA

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Mol	Chain	Res	Type
28	d6	76	SER
29	d7	24	LEU
30	d8	32	PHE
31	d9	7	TRP
32	e0	47	VAL
32	e0	60	PRO
33	e1	131	PHE
33	e1	146	SER
83	sR	52	GLN
83	sR	186	PHE
83	sR	237	GLN
84	sM	83	LYS
39	l2	249	SER
40	l3	244	ARG
41	l4	258	LEU
41	l4	345	GLU
44	l7	178	ILE
86	l8	26	LEU
86	l8	43	LYS
86	l8	124	ASP
47	m0	179	PRO
48	m1	95	ASN
49	m3	60	ALA
51	m5	81	TYR
51	m5	183	THR
54	m8	72	LYS
54	m8	97	PRO
57	n1	6	GLY
88	n4	72	SER
88	n4	85	ALA
61	n5	38	LEU
61	n5	41	ALA
61	n5	44	PRO
62	n6	126	LEU
63	n7	49	TYR
63	n7	134	LEU
64	n8	110	GLY
67	o1	44	MET
72	o6	28	TYR
74	o8	35	GLY
74	o8	49	SER
76	q0	78	ILE

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Mol	Chain	Res	Type
78	q2	104	LEU
79	q3	35	ALA
79	q3	52	ALA
89	p0	33	VAL
2	S0	170	ILE
3	S1	38	PHE
3	S1	78	ASP
3	S1	156	ALA
3	S1	224	ASP
4	S2	235	LEU
4	S2	236	PRO
5	S3	31	GLU
5	S3	81	PRO
5	S3	221	SER
6	S4	19	LEU
6	S4	35	PRO
6	S4	149	TYR
7	S5	154	ALA
8	S6	20	ASP
9	S7	73	VAL
9	S7	98	ILE
10	S8	9	HIS
14	C2	55	GLY
14	C2	108	ARG
14	C2	126	TRP
15	C3	3	ARG
16	C4	50	ALA
17	C5	109	PRO
18	C6	40	GLU
19	C7	24	LEU
20	C8	80	LYS
21	C9	86	ARG
27	D5	54	VAL
27	D5	97	LYS
28	D6	10	ARG
28	D6	16	GLY
33	E1	96	LYS
34	SR	98	GLU
34	SR	165	ASP
34	SR	237	GLN
35	SM	52	PRO
35	SM	98	GLY

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Mol	Chain	Res	Type
39	L2	146	THR
40	L3	63	PRO
40	L3	141	GLY
41	L4	5	GLN
41	L4	16	THR
41	L4	131	VAL
41	L4	140	HIS
44	L7	72	ALA
44	L7	139	PRO
44	L7	204	PRO
45	L8	36	ILE
45	L8	79	GLN
45	L8	156	ASP
45	L8	157	VAL
46	L9	49	ASN
46	L9	175	PHE
47	M0	24	ARG
47	M0	114	GLY
48	M1	12	LEU
48	M1	52	TYR
49	M3	25	HIS
49	M3	111	ALA
50	M4	58	ILE
51	M5	75	VAL
52	M6	121	PRO
54	M8	183	GLY
55	M9	97	ARG
56	N0	2	ALA
58	N2	77	LYS
64	N8	65	GLN
67	O1	5	LYS
72	O6	13	LYS
78	Q2	34	SER
2	s0	11	PRO
2	s0	103	THR
3	s1	22	ASP
3	s1	25	THR
3	s1	179	SER
3	s1	206	PRO
5	s3	93	ASP
6	s4	14	ALA
6	s4	35	PRO

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Mol	Chain	Res	Type
6	s4	90	ILE
6	s4	168	LYS
6	s4	174	LYS
6	s4	245	LYS
6	s4	249	ALA
7	s5	126	ASP
8	s6	10	ASN
10	s8	78	ILE
11	s9	91	LYS
14	c2	54	ARG
15	c3	22	ALA
15	c3	94	LYS
16	c4	114	ARG
20	c8	61	LEU
22	d0	17	GLN
23	d1	11	LEU
25	d3	128	SER
26	d4	50	ALA
28	d6	34	LYS
31	d9	11	PRO
32	e0	54	ARG
33	e1	86	THR
84	sM	50	ASN
39	l2	14	SER
40	l3	155	ALA
41	l4	259	ASP
41	l4	333	VAL
42	l5	5	LYS
42	l5	277	LEU
43	l6	131	LYS
86	l8	78	PHE
86	l8	123	GLN
47	m0	42	THR
49	m3	101	ARG
54	m8	70	ALA
54	m8	112	ALA
54	m8	116	LYS
88	n4	132	GLY
62	n6	10	SER
64	n8	129	PHE
69	o3	59	VAL
72	o6	64	SER

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Mol	Chain	Res	Type
74	o8	60	GLY
78	q2	33	ALA
79	q3	51	ALA
2	S0	68	PRO
3	S1	22	ASP
3	S1	210	ILE
3	S1	213	ARG
8	S6	46	LYS
8	S6	174	LYS
9	S7	112	ARG
12	C0	54	TYR
17	C5	101	ALA
19	C7	84	TYR
23	D1	46	ILE
27	D5	41	ILE
28	D6	47	ALA
28	D6	64	LEU
28	D6	97	PRO
34	SR	105	GLY
40	L3	3	HIS
40	L3	290	ASP
40	L3	317	ILE
41	L4	4	PRO
41	L4	82	THR
44	L7	178	ILE
46	L9	110	LYS
46	L9	169	ASN
47	M0	47	PRO
48	M1	82	ARG
49	M3	130	GLY
50	M4	6	ILE
51	M5	184	LYS
57	N1	127	GLN
59	N3	134	GLY
64	N8	56	VAL
65	N9	21	ILE
70	O4	77	GLY
76	Q0	79	GLU
2	s0	10	THR
5	s3	10	LYS
11	s9	150	LEU
13	c1	129	ARG

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Mol	Chain	Res	Type
14	c2	113	ARG
14	c2	119	SER
15	c3	89	TYR
16	c4	11	SER
16	c4	32	ASP
17	c5	128	HIS
23	d1	3	ASN
28	d6	59	TYR
28	d6	60	PRO
33	e1	79	LYS
33	e1	112	GLY
83	sR	149	ASP
84	sM	43	ASP
39	l2	80	GLU
39	l2	140	ASN
39	l2	180	LEU
40	l3	141	GLY
41	l4	145	ILE
41	l4	302	ALA
42	l5	269	SER
86	l8	80	TYR
46	l9	172	ILE
49	m3	56	PRO
49	m3	82	ALA
88	n4	18	GLY
88	n4	82	ILE
68	o2	100	ILE
11	S9	185	GLY
14	C2	66	VAL
16	C4	97	GLY
18	C6	33	GLY
22	D0	96	PRO
25	D3	42	PRO
27	D5	88	ILE
28	D6	65	PRO
31	D9	6	VAL
31	D9	51	GLY
35	SM	111	GLY
39	L2	141	PRO
41	L4	79	GLY
45	L8	237	ILE
55	M9	55	VAL

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Mol	Chain	Res	Type
62	N6	49	PRO
2	s0	94	GLY
6	s4	114	ILE
18	c6	40	GLU
86	l8	237	ILE
49	m3	50	PRO
66	o0	96	GLY
89	p0	71	PRO
5	S3	112	GLY
6	S4	105	VAL
11	S9	18	PRO
11	S9	137	GLY
13	C1	19	ILE
15	C3	150	VAL
20	C8	142	GLY
42	L5	26	GLY
53	M7	88	VAL
54	M8	30	VAL
54	M8	160	GLY
56	N0	22	PRO
61	N5	62	VAL
63	N7	70	PRO
11	s9	162	SER
14	c2	87	PRO
14	c2	115	VAL
17	c5	48	GLY
23	d1	82	VAL
39	l2	166	ILE
40	l3	114	VAL
48	m1	120	ILE
49	m3	93	ILE
64	n8	28	HIS
9	S7	144	VAL
28	D6	75	VAL
55	M9	129	GLY
58	N2	27	VAL
6	s4	124	GLY
7	s5	28	PRO
81	c0	3	MET
27	d5	92	ILE
39	l2	213	GLY
41	l4	301	PRO

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Mol	Chain	Res	Type
86	l8	187	GLY
52	m6	109	PRO
52	m6	111	PRO
58	n2	60	GLY
61	n5	79	GLY
65	n9	37	PRO
70	o4	5	VAL
7	S5	21	THR
8	S6	117	GLY
14	C2	116	VAL
24	D2	83	ILE
48	M1	65	ILE
60	N4	76	VAL
67	O1	7	VAL
76	Q0	116	GLY
76	Q0	123	PRO
7	s5	152	GLY
16	c4	131	GLY
82	c7	86	PRO
26	d4	66	GLY
64	n8	114	GLY
3	S1	21	VAL
17	C5	87	PRO
32	E0	58	PRO
45	L8	119	GLY
5	s3	203	PRO
8	s6	69	LEU
16	c4	118	VAL
84	sM	51	ARG
42	l5	125	VAL
64	n8	70	LYS
64	n8	148	ILE

### 5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	S0	164/173 (95%)	144 (88%)	20 (12%)	6	29
2	s0	165/173 (95%)	135 (82%)	30 (18%)	2	12
3	S1	191/192 (100%)	157 (82%)	34 (18%)	2	13
3	s1	192/192 (100%)	151 (79%)	41 (21%)	1	7
4	S2	176/176 (100%)	150 (85%)	26 (15%)	4	22
4	s2	176/176 (100%)	135 (77%)	41 (23%)	1	5
5	S3	182/182 (100%)	158 (87%)	24 (13%)	5	27
5	s3	182/182 (100%)	154 (85%)	28 (15%)	3	20
6	S4	221/221 (100%)	184 (83%)	37 (17%)	3	16
6	s4	221/221 (100%)	187 (85%)	34 (15%)	3	20
7	S5	173/173 (100%)	153 (88%)	20 (12%)	7	33
7	s5	173/173 (100%)	149 (86%)	24 (14%)	4	25
8	S6	188/193 (97%)	157 (84%)	31 (16%)	3	16
8	s6	187/193 (97%)	154 (82%)	33 (18%)	2	13
9	S7	165/166 (99%)	147 (89%)	18 (11%)	8	37
9	s7	165/166 (99%)	143 (87%)	22 (13%)	5	26
10	S8	150/150 (100%)	128 (85%)	22 (15%)	4	22
10	s8	150/150 (100%)	131 (87%)	19 (13%)	5	28
11	S9	158/158 (100%)	137 (87%)	21 (13%)	5	26
11	s9	158/158 (100%)	134 (85%)	24 (15%)	3	21
12	C0	77/77 (100%)	66 (86%)	11 (14%)	4	24
13	C1	129/129 (100%)	112 (87%)	17 (13%)	5	27
13	c1	129/129 (100%)	110 (85%)	19 (15%)	4	22
14	C2	88/96 (92%)	75 (85%)	13 (15%)	4	22
14	c2	88/96 (92%)	72 (82%)	16 (18%)	2	12
15	C3	127/127 (100%)	101 (80%)	26 (20%)	1	8
15	c3	127/127 (100%)	107 (84%)	20 (16%)	3	19
16	C4	81/97 (84%)	67 (83%)	14 (17%)	2	14
16	c4	97/97 (100%)	83 (86%)	14 (14%)	4	23
17	C5	101/103 (98%)	90 (89%)	11 (11%)	8	37
17	c5	103/103 (100%)	87 (84%)	16 (16%)	3	20
18	C6	117/118 (99%)	96 (82%)	21 (18%)	2	13

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
18	c6	118/118 (100%)	99 (84%)	19 (16%)	3	18
19	C7	94/109 (86%)	77 (82%)	17 (18%)	2	12
20	C8	128/128 (100%)	108 (84%)	20 (16%)	3	20
20	c8	128/128 (100%)	107 (84%)	21 (16%)	3	17
21	C9	115/115 (100%)	98 (85%)	17 (15%)	4	22
21	c9	115/115 (100%)	103 (90%)	12 (10%)	9	39
22	D0	100/103 (97%)	84 (84%)	16 (16%)	3	18
22	d0	103/103 (100%)	82 (80%)	21 (20%)	1	8
23	D1	74/74 (100%)	65 (88%)	9 (12%)	6	29
23	d1	74/74 (100%)	67 (90%)	7 (10%)	11	43
24	D2	110/110 (100%)	91 (83%)	19 (17%)	2	14
24	d2	110/110 (100%)	98 (89%)	12 (11%)	8	37
25	D3	119/119 (100%)	102 (86%)	17 (14%)	4	24
25	d3	119/119 (100%)	98 (82%)	21 (18%)	2	13
26	D4	112/112 (100%)	94 (84%)	18 (16%)	3	18
26	d4	112/112 (100%)	92 (82%)	20 (18%)	2	13
27	D5	61/61 (100%)	46 (75%)	15 (25%)	1	5
27	d5	61/61 (100%)	53 (87%)	8 (13%)	5	27
28	D6	83/83 (100%)	64 (77%)	19 (23%)	1	6
28	d6	83/83 (100%)	66 (80%)	17 (20%)	1	8
29	D7	70/70 (100%)	66 (94%)	4 (6%)	25	66
29	d7	70/70 (100%)	57 (81%)	13 (19%)	2	11
30	D8	56/56 (100%)	46 (82%)	10 (18%)	2	13
30	d8	56/56 (100%)	41 (73%)	15 (27%)	0	4
31	D9	47/47 (100%)	37 (79%)	10 (21%)	1	7
31	d9	47/47 (100%)	39 (83%)	8 (17%)	2	15
32	E0	51/53 (96%)	39 (76%)	12 (24%)	1	5
32	e0	53/53 (100%)	45 (85%)	8 (15%)	3	21
33	E1	62/66 (94%)	43 (69%)	19 (31%)	0	3
33	e1	66/66 (100%)	50 (76%)	16 (24%)	1	5
34	SR	259/260 (100%)	233 (90%)	26 (10%)	9	41

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
35	SM	97/97 (100%)	78 (80%)	19 (20%)	1	9
39	L2	193/194 (100%)	162 (84%)	31 (16%)	3	18
39	l2	192/194 (99%)	159 (83%)	33 (17%)	2	15
40	L3	320/322 (99%)	252 (79%)	68 (21%)	1	7
40	l3	319/322 (99%)	268 (84%)	51 (16%)	3	18
41	L4	288/288 (100%)	239 (83%)	49 (17%)	2	15
41	l4	288/288 (100%)	231 (80%)	57 (20%)	1	9
42	L5	244/244 (100%)	205 (84%)	39 (16%)	3	18
42	l5	243/244 (100%)	201 (83%)	42 (17%)	2	14
43	L6	134/152 (88%)	114 (85%)	20 (15%)	4	22
43	l6	135/152 (89%)	119 (88%)	16 (12%)	6	31
44	L7	186/187 (100%)	156 (84%)	30 (16%)	3	18
44	l7	187/187 (100%)	155 (83%)	32 (17%)	2	15
45	L8	187/191 (98%)	166 (89%)	21 (11%)	7	35
46	L9	171/171 (100%)	134 (78%)	37 (22%)	1	7
46	l9	171/171 (100%)	134 (78%)	37 (22%)	1	7
47	M0	177/186 (95%)	147 (83%)	30 (17%)	2	15
47	m0	179/186 (96%)	139 (78%)	40 (22%)	1	6
48	M1	147/147 (100%)	120 (82%)	27 (18%)	2	11
48	m1	147/147 (100%)	126 (86%)	21 (14%)	4	24
49	M3	154/154 (100%)	125 (81%)	29 (19%)	2	11
49	m3	154/154 (100%)	127 (82%)	27 (18%)	2	14
50	M4	107/108 (99%)	86 (80%)	21 (20%)	1	9
50	m4	108/108 (100%)	91 (84%)	17 (16%)	3	19
51	M5	175/175 (100%)	145 (83%)	30 (17%)	2	15
51	m5	175/175 (100%)	148 (85%)	27 (15%)	3	20
52	M6	160/160 (100%)	141 (88%)	19 (12%)	6	31
52	m6	160/160 (100%)	135 (84%)	25 (16%)	3	20
53	M7	140/145 (97%)	114 (81%)	26 (19%)	2	11
53	m7	125/145 (86%)	99 (79%)	26 (21%)	1	8
54	M8	150/150 (100%)	126 (84%)	24 (16%)	3	18

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
54	m8	150/150 (100%)	122 (81%)	28 (19%)	2	11
55	M9	153/153 (100%)	133 (87%)	20 (13%)	5	27
55	m9	153/153 (100%)	121 (79%)	32 (21%)	1	8
56	N0	156/156 (100%)	129 (83%)	27 (17%)	2	14
56	n0	156/156 (100%)	130 (83%)	26 (17%)	3	16
57	N1	136/136 (100%)	106 (78%)	30 (22%)	1	6
57	n1	136/136 (100%)	112 (82%)	24 (18%)	2	13
58	N2	87/87 (100%)	73 (84%)	14 (16%)	3	18
58	n2	85/87 (98%)	70 (82%)	15 (18%)	2	13
59	N3	104/104 (100%)	89 (86%)	15 (14%)	4	23
59	n3	104/104 (100%)	93 (89%)	11 (11%)	8	38
60	N4	57/86 (66%)	53 (93%)	4 (7%)	19	59
61	N5	104/105 (99%)	89 (86%)	15 (14%)	4	23
61	n5	104/105 (99%)	80 (77%)	24 (23%)	1	5
62	N6	109/109 (100%)	85 (78%)	24 (22%)	1	7
62	n6	109/109 (100%)	88 (81%)	21 (19%)	2	10
63	N7	115/115 (100%)	97 (84%)	18 (16%)	3	19
63	n7	115/115 (100%)	96 (84%)	19 (16%)	3	16
64	N8	118/118 (100%)	99 (84%)	19 (16%)	3	18
64	n8	118/118 (100%)	101 (86%)	17 (14%)	4	23
65	N9	46/46 (100%)	39 (85%)	7 (15%)	3	21
65	n9	46/46 (100%)	39 (85%)	7 (15%)	3	21
66	O0	81/84 (96%)	64 (79%)	17 (21%)	1	8
66	o0	84/84 (100%)	71 (84%)	13 (16%)	3	20
67	O1	92/96 (96%)	79 (86%)	13 (14%)	4	24
67	o1	94/96 (98%)	74 (79%)	20 (21%)	1	7
68	O2	109/109 (100%)	88 (81%)	21 (19%)	2	10
68	o2	109/109 (100%)	83 (76%)	26 (24%)	1	5
69	O3	90/90 (100%)	72 (80%)	18 (20%)	1	9
69	o3	90/90 (100%)	74 (82%)	16 (18%)	2	13
70	O4	95/95 (100%)	82 (86%)	13 (14%)	4	25

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
70	o4	95/95 (100%)	83 (87%)	12 (13%)	5	28
71	O5	104/104 (100%)	93 (89%)	11 (11%)	8	38
71	o5	103/104 (99%)	82 (80%)	21 (20%)	1	8
72	O6	81/81 (100%)	63 (78%)	18 (22%)	1	6
72	o6	80/81 (99%)	64 (80%)	16 (20%)	1	9
73	O7	70/70 (100%)	58 (83%)	12 (17%)	2	15
73	o7	70/70 (100%)	54 (77%)	16 (23%)	1	6
74	O8	68/68 (100%)	52 (76%)	16 (24%)	1	5
74	o8	67/68 (98%)	58 (87%)	9 (13%)	5	26
75	O9	45/45 (100%)	37 (82%)	8 (18%)	2	13
75	o9	45/45 (100%)	40 (89%)	5 (11%)	8	35
76	Q0	47/47 (100%)	40 (85%)	7 (15%)	4	22
76	q0	47/47 (100%)	40 (85%)	7 (15%)	4	22
77	Q1	23/23 (100%)	19 (83%)	4 (17%)	2	14
77	q1	23/23 (100%)	14 (61%)	9 (39%)	0	1
78	Q2	90/90 (100%)	65 (72%)	25 (28%)	0	3
78	q2	90/90 (100%)	71 (79%)	19 (21%)	1	8
79	Q3	71/71 (100%)	59 (83%)	12 (17%)	2	15
79	q3	71/71 (100%)	58 (82%)	13 (18%)	2	12
81	c0	73/73 (100%)	66 (90%)	7 (10%)	10	43
82	c7	92/109 (84%)	72 (78%)	20 (22%)	1	7
83	sR	260/261 (100%)	238 (92%)	22 (8%)	13	49
84	sM	54/54 (100%)	44 (82%)	10 (18%)	2	11
86	l8	177/185 (96%)	147 (83%)	30 (17%)	2	15
88	n4	100/114 (88%)	87 (87%)	13 (13%)	5	27
89	p0	105/105 (100%)	89 (85%)	16 (15%)	3	21
All	All	18726/18993 (99%)	15610 (83%)	3116 (17%)	3	16

All (3116) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	S0	7	PHE
2	S0	30	GLN

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Mol	Chain	Res	Type
2	S0	43	ASP
2	S0	86	VAL
2	S0	88	LYS
2	S0	96	THR
2	S0	101	ARG
2	S0	110	TYR
2	S0	135	GLU
2	S0	137	SER
2	S0	139	VAL
2	S0	157	ASP
2	S0	162	CYS
2	S0	168	HIS
2	S0	172	LEU
2	S0	177	LEU
2	S0	185	ARG
2	S0	188	LEU
2	S0	196	SER
2	S0	200	ASP
3	S1	21	VAL
3	S1	22	ASP
3	S1	25	THR
3	S1	29	TRP
3	S1	30	PHE
3	S1	61	LEU
3	S1	66	VAL
3	S1	70	LEU
3	S1	74	GLN
3	S1	76	SER
3	S1	78	ASP
3	S1	81	PHE
3	S1	83	LYS
3	S1	91	VAL
3	S1	97	LEU
3	S1	105	PHE
3	S1	110	LEU
3	S1	111	ARG
3	S1	117	TRP
3	S1	131	ASP
3	S1	133	TYR
3	S1	150	VAL
3	S1	170	GLU
3	S1	180	THR

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Mol	Chain	Res	Type
3	S1	181	LEU
3	S1	193	ILE
3	S1	198	GLU
3	S1	202	LYS
3	S1	214	LYS
3	S1	218	LEU
3	S1	219	LYS
3	S1	220	GLN
3	S1	222	LYS
3	S1	223	PHE
4	S2	41	LEU
4	S2	51	THR
4	S2	53	ILE
4	S2	54	GLU
4	S2	72	LEU
4	S2	73	LEU
4	S2	89	GLN
4	S2	91	ARG
4	S2	94	GLN
4	S2	95	ARG
4	S2	96	THR
4	S2	97	ARG
4	S2	111	VAL
4	S2	113	LEU
4	S2	117	THR
4	S2	134	LEU
4	S2	136	VAL
4	S2	137	ILE
4	S2	140	ARG
4	S2	141	ARG
4	S2	148	LEU
4	S2	208	GLU
4	S2	225	LEU
4	S2	226	THR
4	S2	237	VAL
4	S2	245	ASP
5	S3	4	LEU
5	S3	10	LYS
5	S3	14	ASP
5	S3	23	GLU
5	S3	65	ARG
5	S3	66	ILE

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Mol	Chain	Res	Type
5	S3	76	ARG
5	S3	84	ILE
5	S3	91	VAL
5	S3	94	ARG
5	S3	103	GLU
5	S3	104	SER
5	S3	105	MET
5	S3	129	SER
5	S3	158	ILE
5	S3	172	THR
5	S3	176	LEU
5	S3	178	ARG
5	S3	181	VAL
5	S3	190	ARG
5	S3	207	THR
5	S3	217	ILE
5	S3	218	LEU
5	S3	223	LYS
6	S4	6	LYS
6	S4	9	LEU
6	S4	12	LEU
6	S4	21	ASP
6	S4	38	LEU
6	S4	42	LEU
6	S4	45	ILE
6	S4	65	LEU
6	S4	77	ARG
6	S4	92	LEU
6	S4	93	ASP
6	S4	100	ARG
6	S4	116	ASP
6	S4	120	SER
6	S4	123	LEU
6	S4	126	VAL
6	S4	128	LYS
6	S4	131	LEU
6	S4	139	VAL
6	S4	140	VAL
6	S4	142	HIS
6	S4	149	TYR
6	S4	176	ASP
6	S4	180	LEU

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Mol	Chain	Res	Type
6	S4	181	VAL
6	S4	182	TYR
6	S4	187	ARG
6	S4	192	ILE
6	S4	206	ASP
6	S4	212	ASP
6	S4	215	ASP
6	S4	220	THR
6	S4	222	LEU
6	S4	227	VAL
6	S4	231	GLN
6	S4	240	LYS
6	S4	242	LYS
7	S5	24	VAL
7	S5	25	LEU
7	S5	41	LYS
7	S5	43	PHE
7	S5	45	LYS
7	S5	51	VAL
7	S5	53	VAL
7	S5	65	ARG
7	S5	76	ARG
7	S5	89	ILE
7	S5	109	LYS
7	S5	112	ARG
7	S5	139	ASN
7	S5	148	ARG
7	S5	156	ARG
7	S5	157	ARG
7	S5	162	VAL
7	S5	186	ASN
7	S5	216	GLU
7	S5	223	SER
8	S6	7	TYR
8	S6	13	GLN
8	S6	25	ARG
8	S6	44	GLU
8	S6	65	GLN
8	S6	71	THR
8	S6	72	ARG
8	S6	76	LEU
8	S6	79	LYS

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Mol	Chain	Res	Type
8	S6	81	VAL
8	S6	82	SER
8	S6	97	VAL
8	S6	98	ARG
8	S6	120	GLU
8	S6	126	ASP
8	S6	127	THR
8	S6	128	THR
8	S6	129	VAL
8	S6	133	LEU
8	S6	137	ARG
8	S6	143	LYS
8	S6	150	GLU
8	S6	151	ASP
8	S6	154	ARG
8	S6	169	TYR
8	S6	170	THR
8	S6	175	ILE
8	S6	177	ARG
8	S6	193	LEU
8	S6	201	GLN
8	S6	211	LEU
9	S7	38	LEU
9	S7	46	ILE
9	S7	49	ILE
9	S7	50	ASP
9	S7	70	PHE
9	S7	71	HIS
9	S7	77	LEU
9	S7	85	PHE
9	S7	97	ARG
9	S7	104	ARG
9	S7	109	VAL
9	S7	114	ARG
9	S7	126	LEU
9	S7	131	PHE
9	S7	159	VAL
9	S7	163	ASP
9	S7	174	ASN
9	S7	185	ILE
10	S8	4	SER
10	S8	5	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
10	S8	18	ARG
10	S8	20	GLN
10	S8	21	PHE
10	S8	22	ARG
10	S8	29	LEU
10	S8	36	THR
10	S8	38	ILE
10	S8	45	SER
10	S8	72	ILE
10	S8	74	LYS
10	S8	110	ARG
10	S8	123	LYS
10	S8	138	ASN
10	S8	151	LYS
10	S8	152	ILE
10	S8	164	ARG
10	S8	168	CYS
10	S8	185	GLU
10	S8	196	LEU
10	S8	197	THR
11	S9	3	ARG
11	S9	21	SER
11	S9	28	LEU
11	S9	39	LYS
11	S9	46	SER
11	S9	60	LEU
11	S9	78	ARG
11	S9	89	ASP
11	S9	92	LYS
11	S9	93	LEU
11	S9	96	VAL
11	S9	99	LEU
11	S9	109	LEU
11	S9	110	GLN
11	S9	121	SER
11	S9	134	ILE
11	S9	138	LYS
11	S9	141	VAL
11	S9	149	ARG
11	S9	161	THR
11	S9	171	ARG
12	C0	1	MET

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Mol	Chain	Res	Type
12	C0	8	ARG
12	C0	20	VAL
12	C0	22	VAL
12	C0	27	PHE
12	C0	32	HIS
12	C0	52	LYS
12	C0	55	VAL
12	C0	56	LYS
12	C0	81	ASN
12	C0	82	LEU
13	C1	3	THR
13	C1	8	GLN
13	C1	9	SER
13	C1	21	ASN
13	C1	36	LYS
13	C1	37	ASN
13	C1	40	LEU
13	C1	44	THR
13	C1	56	LYS
13	C1	67	ARG
13	C1	69	LYS
13	C1	87	ARG
13	C1	109	VAL
13	C1	118	GLN
13	C1	123	VAL
13	C1	125	VAL
13	C1	129	ARG
14	C2	28	LEU
14	C2	33	ARG
14	C2	36	LEU
14	C2	37	VAL
14	C2	39	ASP
14	C2	43	ARG
14	C2	61	VAL
14	C2	66	VAL
14	C2	71	ILE
14	C2	74	LEU
14	C2	103	LEU
14	C2	126	TRP
14	C2	132	GLU
15	C3	3	ARG
15	C3	13	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
15	C3	16	ILE
15	C3	19	SER
15	C3	21	ASN
15	C3	27	LYS
15	C3	35	GLU
15	C3	39	LYS
15	C3	56	ASP
15	C3	58	HIS
15	C3	62	GLN
15	C3	64	ARG
15	C3	66	ILE
15	C3	73	ARG
15	C3	76	LYS
15	C3	83	GLU
15	C3	88	LEU
15	C3	102	LEU
15	C3	103	GLU
15	C3	105	ASN
15	C3	110	ASP
15	C3	125	LEU
15	C3	134	VAL
15	C3	140	LYS
15	C3	142	GLU
15	C3	149	LEU
16	C4	13	VAL
16	C4	14	PHE
16	C4	16	VAL
16	C4	29	HIS
16	C4	31	THR
16	C4	39	ILE
16	C4	43	THR
16	C4	51	ASP
16	C4	92	LYS
16	C4	102	LEU
16	C4	124	ASP
16	C4	133	ARG
16	C4	136	ARG
16	C4	137	LEU
17	C5	14	THR
17	C5	20	VAL
17	C5	31	GLU
17	C5	36	LEU

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Mol	Chain	Res	Type
17	C5	44	ARG
17	C5	47	ARG
17	C5	60	LEU
17	C5	69	GLU
17	C5	71	GLU
17	C5	103	ASN
17	C5	128	HIS
18	C6	4	VAL
18	C6	8	GLN
18	C6	26	LYS
18	C6	29	ILE
18	C6	37	THR
18	C6	43	ILE
18	C6	53	LEU
18	C6	54	LEU
18	C6	66	ARG
18	C6	69	VAL
18	C6	76	SER
18	C6	97	VAL
18	C6	98	ASP
18	C6	106	LYS
18	C6	109	PHE
18	C6	113	ASP
18	C6	121	SER
18	C6	123	ARG
18	C6	128	LYS
18	C6	137	ARG
18	C6	138	PHE
19	C7	3	ARG
19	C7	5	ARG
19	C7	29	GLN
19	C7	34	LEU
19	C7	38	ILE
19	C7	40	THR
19	C7	46	LEU
19	C7	49	LYS
19	C7	54	THR
19	C7	69	ILE
19	C7	71	PHE
19	C7	72	LYS
19	C7	83	GLN
19	C7	85	VAL

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Mol	Chain	Res	Type
19	C7	88	VAL
19	C7	105	GLN
19	C7	115	LEU
20	C8	3	LEU
20	C8	5	VAL
20	C8	8	GLN
20	C8	11	PHE
20	C8	13	HIS
20	C8	14	ILE
20	C8	26	ILE
20	C8	28	ILE
20	C8	60	GLU
20	C8	61	LEU
20	C8	71	GLN
20	C8	80	LYS
20	C8	89	GLN
20	C8	92	ILE
20	C8	93	THR
20	C8	97	ASP
20	C8	116	LEU
20	C8	132	ARG
20	C8	133	VAL
20	C8	145	ARG
21	C9	13	ASP
21	C9	18	TYR
21	C9	22	LEU
21	C9	28	LEU
21	C9	35	ASP
21	C9	37	VAL
21	C9	57	ARG
21	C9	64	HIS
21	C9	67	MET
21	C9	70	GLN
21	C9	79	LEU
21	C9	88	VAL
21	C9	117	SER
21	C9	130	ARG
21	C9	131	ASP
21	C9	134	ARG
21	C9	144	GLU
22	D0	18	GLN
22	D0	23	ARG

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Mol	Chain	Res	Type
22	D0	27	THR
22	D0	31	VAL
22	D0	34	LEU
22	D0	35	GLU
22	D0	42	VAL
22	D0	47	GLN
22	D0	51	VAL
22	D0	61	LYS
22	D0	66	SER
22	D0	74	GLU
22	D0	81	THR
22	D0	89	ARG
22	D0	103	ILE
22	D0	108	ILE
23	D1	5	LYS
23	D1	9	VAL
23	D1	11	LEU
23	D1	49	GLU
23	D1	52	THR
23	D1	69	LEU
23	D1	78	LEU
23	D1	80	LYS
23	D1	87	ARG
24	D2	7	LEU
24	D2	16	ASN
24	D2	24	GLN
24	D2	26	LEU
24	D2	27	ILE
24	D2	43	LYS
24	D2	53	ILE
24	D2	65	LEU
24	D2	69	LEU
24	D2	72	CYS
24	D2	76	SER
24	D2	85	ASP
24	D2	93	LEU
24	D2	97	ARG
24	D2	98	GLN
24	D2	103	ILE
24	D2	104	LEU
24	D2	105	THR
24	D2	121	VAL

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Mol	Chain	Res	Type
25	D3	7	ARG
25	D3	19	ARG
25	D3	41	SER
25	D3	57	LEU
25	D3	66	SER
25	D3	73	ARG
25	D3	79	ASN
25	D3	82	LYS
25	D3	84	THR
25	D3	103	LEU
25	D3	107	PHE
25	D3	109	ARG
25	D3	110	LYS
25	D3	114	LYS
25	D3	132	LEU
25	D3	140	LYS
25	D3	144	ARG
26	D4	3	ASP
26	D4	17	LEU
26	D4	32	ARG
26	D4	34	ASN
26	D4	35	VAL
26	D4	41	ARG
26	D4	51	GLU
26	D4	57	VAL
26	D4	62	THR
26	D4	84	LYS
26	D4	88	THR
26	D4	96	LEU
26	D4	98	GLU
26	D4	99	LYS
26	D4	102	LYS
26	D4	124	ARG
26	D4	127	LYS
26	D4	128	LYS
27	D5	38	HIS
27	D5	40	VAL
27	D5	42	LEU
27	D5	59	TYR
27	D5	60	VAL
27	D5	63	SER
27	D5	68	ARG

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Mol	Chain	Res	Type
27	D5	69	LEU
27	D5	71	ILE
27	D5	75	LEU
27	D5	77	ARG
27	D5	85	LYS
27	D5	95	HIS
27	D5	96	SER
27	D5	100	ILE
28	D6	12	LYS
28	D6	18	VAL
28	D6	36	ILE
28	D6	38	ARG
28	D6	39	MET
28	D6	41	ILE
28	D6	45	VAL
28	D6	50	VAL
28	D6	61	GLU
28	D6	64	LEU
28	D6	66	LYS
28	D6	68	TYR
28	D6	69	ASN
28	D6	71	LEU
28	D6	82	ARG
28	D6	83	ILE
28	D6	84	VAL
28	D6	85	ARG
28	D6	90	GLU
29	D7	3	LEU
29	D7	4	VAL
29	D7	33	LEU
29	D7	41	LEU
30	D8	15	VAL
30	D8	32	PHE
30	D8	33	LEU
30	D8	34	GLU
30	D8	36	THR
30	D8	38	ARG
30	D8	49	ARG
30	D8	52	ASP
30	D8	58	GLU
30	D8	64	ARG
31	D9	7	TRP

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Mol	Chain	Res	Type
31	D9	8	PHE
31	D9	10	HIS
31	D9	12	ARG
31	D9	14	TYR
31	D9	19	ARG
31	D9	25	SER
31	D9	30	LEU
31	D9	31	ILE
31	D9	32	ARG
32	E0	8	LEU
32	E0	15	LYS
32	E0	16	SER
32	E0	17	GLN
32	E0	20	LYS
32	E0	22	GLU
32	E0	28	LYS
32	E0	38	LEU
32	E0	39	LEU
32	E0	42	ARG
32	E0	47	VAL
32	E0	56	MET
33	E1	85	TYR
33	E1	86	THR
33	E1	89	LYS
33	E1	91	ILE
33	E1	93	HIS
33	E1	97	LYS
33	E1	98	VAL
33	E1	102	VAL
33	E1	103	LEU
33	E1	106	TYR
33	E1	113	LYS
33	E1	120	GLU
33	E1	126	CYS
33	E1	130	VAL
33	E1	137	ASP
33	E1	138	ARG
33	E1	140	TYR
33	E1	150	VAL
33	E1	151	ASN
34	SR	6	VAL
34	SR	29	GLN

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Mol	Chain	Res	Type
34	SR	50	ASP
34	SR	52	GLN
34	SR	58	VAL
34	SR	66	HIS
34	SR	76	ASP
34	SR	100	TYR
34	SR	117	LYS
34	SR	136	ILE
34	SR	141	LEU
34	SR	149	ASP
34	SR	153	GLN
34	SR	165	ASP
34	SR	195	HIS
34	SR	202	LEU
34	SR	213	SER
34	SR	238	ASP
34	SR	268	GLN
34	SR	275	ARG
34	SR	290	VAL
34	SR	292	LEU
34	SR	300	THR
34	SR	308	ASN
34	SR	314	GLN
34	SR	317	THR
35	SM	23	LYS
35	SM	27	LYS
35	SM	30	THR
35	SM	46	LYS
35	SM	48	ARG
35	SM	57	ASN
35	SM	68	ARG
35	SM	69	ARG
35	SM	81	THR
35	SM	84	LYS
35	SM	89	ARG
35	SM	91	THR
35	SM	100	THR
35	SM	102	THR
35	SM	116	GLU
35	SM	117	LEU
35	SM	134	LEU
35	SM	137	GLU

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Mol	Chain	Res	Type
35	SM	139	GLU
39	L2	14	SER
39	L2	20	THR
39	L2	32	LEU
39	L2	44	ILE
39	L2	45	VAL
39	L2	46	LYS
39	L2	48	ILE
39	L2	74	GLU
39	L2	84	THR
39	L2	98	VAL
39	L2	101	VAL
39	L2	104	LEU
39	L2	111	THR
39	L2	116	VAL
39	L2	128	ARG
39	L2	143	GLU
39	L2	157	VAL
39	L2	160	SER
39	L2	165	VAL
39	L2	168	VAL
39	L2	179	LEU
39	L2	181	LYS
39	L2	190	ARG
39	L2	193	ARG
39	L2	204	MET
39	L2	226	SER
39	L2	227	ARG
39	L2	231	SER
39	L2	242	ARG
39	L2	243	THR
39	L2	249	SER
40	L3	7	GLU
40	L3	17	LEU
40	L3	19	ARG
40	L3	24	SER
40	L3	25	ILE
40	L3	30	LYS
40	L3	36	ASP
40	L3	37	ARG
40	L3	41	VAL
40	L3	47	LEU

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Mol	Chain	Res	Type
40	L3	53	MET
40	L3	55	THR
40	L3	56	ILE
40	L3	66	LYS
40	L3	67	PHE
40	L3	81	THR
40	L3	85	VAL
40	L3	97	ARG
40	L3	100	ARG
40	L3	103	THR
40	L3	104	THR
40	L3	112	ASP
40	L3	114	VAL
40	L3	116	ARG
40	L3	125	SER
40	L3	139	GLN
40	L3	147	GLU
40	L3	148	LEU
40	L3	150	ARG
40	L3	163	HIS
40	L3	165	GLN
40	L3	183	LEU
40	L3	188	ILE
40	L3	189	SER
40	L3	192	VAL
40	L3	200	GLU
40	L3	202	THR
40	L3	211	GLN
40	L3	212	ASN
40	L3	226	PHE
40	L3	229	VAL
40	L3	236	LYS
40	L3	238	LEU
40	L3	241	LYS
40	L3	243	HIS
40	L3	246	LEU
40	L3	252	ILE
40	L3	256	HIS
40	L3	260	VAL
40	L3	275	ARG
40	L3	277	SER
40	L3	284	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
40	L3	302	LYS
40	L3	305	ILE
40	L3	319	ASN
40	L3	320	ASP
40	L3	324	VAL
40	L3	325	LYS
40	L3	328	ILE
40	L3	332	ARG
40	L3	335	ILE
40	L3	338	LEU
40	L3	341	SER
40	L3	345	ASN
40	L3	347	SER
40	L3	369	ARG
40	L3	382	THR
40	L3	387	LEU
41	L4	3	ARG
41	L4	4	PRO
41	L4	7	THR
41	L4	11	LEU
41	L4	22	LEU
41	L4	33	ASP
41	L4	52	VAL
41	L4	54	GLU
41	L4	64	SER
41	L4	74	ILE
41	L4	82	THR
41	L4	93	MET
41	L4	99	MET
41	L4	105	THR
41	L4	120	TYR
41	L4	138	ARG
41	L4	141	ARG
41	L4	145	ILE
41	L4	148	ILE
41	L4	150	LEU
41	L4	156	LEU
41	L4	170	LYS
41	L4	179	LEU
41	L4	188	ARG
41	L4	193	LYS
41	L4	203	ARG

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Mol	Chain	Res	Type
41	L4	206	LEU
41	L4	207	VAL
41	L4	216	VAL
41	L4	220	ARG
41	L4	222	VAL
41	L4	227	THR
41	L4	230	VAL
41	L4	238	LEU
41	L4	246	ARG
41	L4	259	ASP
41	L4	261	VAL
41	L4	267	VAL
41	L4	270	SER
41	L4	284	SER
41	L4	287	THR
41	L4	289	ILE
41	L4	292	SER
41	L4	304	GLN
41	L4	313	LEU
41	L4	324	LEU
41	L4	327	LEU
41	L4	349	THR
41	L4	350	LYS
42	L5	10	SER
42	L5	22	ARG
42	L5	23	ARG
42	L5	41	LYS
42	L5	66	SER
42	L5	67	SER
42	L5	69	ILE
42	L5	84	PRO
42	L5	90	HIS
42	L5	93	THR
42	L5	95	TRP
42	L5	105	ILE
42	L5	110	LEU
42	L5	113	LEU
42	L5	122	VAL
42	L5	131	LEU
42	L5	132	THR
42	L5	140	ARG
42	L5	146	LEU

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Mol	Chain	Res	Type
42	L5	148	ILE
42	L5	151	GLN
42	L5	155	THR
42	L5	159	VAL
42	L5	163	LEU
42	L5	176	SER
42	L5	177	GLU
42	L5	185	PHE
42	L5	187	THR
42	L5	198	TYR
42	L5	203	HIS
42	L5	205	SER
42	L5	214	ASP
42	L5	217	GLU
42	L5	222	LEU
42	L5	234	ASP
42	L5	238	ASP
42	L5	259	LYS
42	L5	263	GLU
42	L5	293	LEU
43	L6	2	SER
43	L6	18	LEU
43	L6	21	THR
43	L6	30	LEU
43	L6	31	ARG
43	L6	52	VAL
43	L6	64	LEU
43	L6	65	ILE
43	L6	76	LEU
43	L6	78	ARG
43	L6	84	VAL
43	L6	89	THR
43	L6	93	VAL
43	L6	98	VAL
43	L6	104	GLU
43	L6	129	GLU
43	L6	134	ARG
43	L6	152	THR
43	L6	155	LEU
43	L6	164	SER
44	L7	24	GLU
44	L7	26	VAL

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Mol	Chain	Res	Type
44	L7	38	LYS
44	L7	40	LYS
44	L7	82	LYS
44	L7	84	VAL
44	L7	87	VAL
44	L7	98	LYS
44	L7	100	ARG
44	L7	101	LYS
44	L7	120	THR
44	L7	121	LYS
44	L7	123	THR
44	L7	124	LEU
44	L7	126	LEU
44	L7	129	LEU
44	L7	140	SER
44	L7	142	SER
44	L7	143	THR
44	L7	151	ARG
44	L7	153	PHE
44	L7	161	VAL
44	L7	179	LEU
44	L7	182	ASP
44	L7	183	ASP
44	L7	184	LEU
44	L7	185	ILE
44	L7	228	SER
44	L7	234	GLU
44	L7	239	LEU
45	L8	50	VAL
45	L8	63	LYS
45	L8	69	LEU
45	L8	74	THR
45	L8	79	GLN
45	L8	81	THR
45	L8	84	ARG
45	L8	107	GLU
45	L8	132	VAL
45	L8	134	TYR
45	L8	136	LEU
45	L8	150	LEU
45	L8	156	ASP
45	L8	160	ILE

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Mol	Chain	Res	Type
45	L8	163	VAL
45	L8	169	LEU
45	L8	185	ARG
45	L8	206	GLU
45	L8	221	ASN
45	L8	227	ASP
45	L8	246	MET
46	L9	5	GLN
46	L9	9	GLN
46	L9	13	PRO
46	L9	18	VAL
46	L9	19	SER
46	L9	20	ILE
46	L9	24	ILE
46	L9	33	THR
46	L9	41	ILE
46	L9	42	ASP
46	L9	52	LEU
46	L9	68	LEU
46	L9	69	ARG
46	L9	70	THR
46	L9	82	VAL
46	L9	87	LYS
46	L9	92	TYR
46	L9	115	ARG
46	L9	118	LEU
46	L9	120	ASP
46	L9	124	ARG
46	L9	138	THR
46	L9	140	VAL
46	L9	146	LEU
46	L9	149	ASN
46	L9	150	SER
46	L9	151	VAL
46	L9	152	GLU
46	L9	157	ASN
46	L9	161	LEU
46	L9	162	GLN
46	L9	164	ILE
46	L9	166	ARG
46	L9	172	ILE
46	L9	177	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
46	L9	183	HIS
46	L9	189	GLU
47	M0	26	VAL
47	M0	30	LYS
47	M0	31	ILE
47	M0	33	ILE
47	M0	40	LYS
47	M0	42	THR
47	M0	48	LEU
47	M0	52	LEU
47	M0	80	SER
47	M0	82	ARG
47	M0	87	LEU
47	M0	116	ARG
47	M0	128	ARG
47	M0	133	GLN
47	M0	138	VAL
47	M0	139	ARG
47	M0	142	ASP
47	M0	156	ARG
47	M0	163	GLN
47	M0	165	ILE
47	M0	168	SER
47	M0	169	LYS
47	M0	177	ASP
47	M0	178	ARG
47	M0	184	LYS
47	M0	185	ARG
47	M0	192	ASP
47	M0	197	VAL
47	M0	201	SER
47	M0	203	LYS
48	M1	10	ARG
48	M1	11	ASP
48	M1	12	LEU
48	M1	13	LYS
48	M1	19	LEU
48	M1	23	VAL
48	M1	30	LEU
48	M1	41	SER
48	M1	44	THR
48	M1	46	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
48	M1	52	TYR
48	M1	65	ILE
48	M1	67	VAL
48	M1	80	LEU
48	M1	94	ARG
48	M1	106	ILE
48	M1	107	ASP
48	M1	111	ASP
48	M1	112	LEU
48	M1	115	LYS
48	M1	137	ARG
48	M1	139	THR
48	M1	140	ARG
48	M1	155	THR
48	M1	165	GLN
48	M1	166	LYS
48	M1	171	VAL
49	M3	5	LYS
49	M3	13	HIS
49	M3	24	VAL
49	M3	54	LEU
49	M3	55	ARG
49	M3	57	VAL
49	M3	58	VAL
49	M3	59	ARG
49	M3	67	ARG
49	M3	69	VAL
49	M3	85	LEU
49	M3	100	ARG
49	M3	101	ARG
49	M3	103	ASN
49	M3	104	ARG
49	M3	107	GLU
49	M3	114	GLN
49	M3	116	LEU
49	M3	117	LYS
49	M3	121	SER
49	M3	124	ILE
49	M3	131	LYS
49	M3	138	VAL
49	M3	139	LEU
49	M3	140	SER

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Mol	Chain	Res	Type
49	M3	154	VAL
49	M3	162	ASN
49	M3	169	THR
49	M3	180	ARG
50	M4	8	LYS
50	M4	20	VAL
50	M4	24	LYS
50	M4	27	GLN
50	M4	32	LEU
50	M4	37	GLU
50	M4	38	ILE
50	M4	50	LYS
50	M4	53	VAL
50	M4	55	ARG
50	M4	69	THR
50	M4	72	LEU
50	M4	74	ARG
50	M4	83	LYS
50	M4	91	CYS
50	M4	94	TRP
50	M4	102	LYS
50	M4	108	ARG
50	M4	125	LYS
50	M4	128	ARG
50	M4	135	LEU
51	M5	18	VAL
51	M5	19	LEU
51	M5	36	ILE
51	M5	38	ARG
51	M5	57	GLN
51	M5	71	ARG
51	M5	75	VAL
51	M5	80	THR
51	M5	83	LYS
51	M5	94	TYR
51	M5	98	LEU
51	M5	106	VAL
51	M5	117	ASN
51	M5	124	ASP
51	M5	133	ILE
51	M5	151	ILE
51	M5	153	ASP

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Mol	Chain	Res	Type
51	M5	155	VAL
51	M5	159	ARG
51	M5	165	THR
51	M5	170	LYS
51	M5	174	ILE
51	M5	179	LYS
51	M5	182	ASN
51	M5	183	THR
51	M5	188	ARG
51	M5	190	THR
51	M5	196	THR
51	M5	199	LEU
51	M5	204	LYS
52	M6	33	ILE
52	M6	34	VAL
52	M6	67	THR
52	M6	78	ARG
52	M6	85	ARG
52	M6	89	SER
52	M6	106	GLU
52	M6	110	PRO
52	M6	112	TYR
52	M6	116	LYS
52	M6	117	ARG
52	M6	119	VAL
52	M6	124	LEU
52	M6	128	ARG
52	M6	143	THR
52	M6	149	TYR
52	M6	164	SER
52	M6	187	GLU
52	M6	190	VAL
53	M7	7	THR
53	M7	9	THR
53	M7	23	ARG
53	M7	24	VAL
53	M7	29	THR
53	M7	32	THR
53	M7	36	ILE
53	M7	42	THR
53	M7	49	GLU
53	M7	56	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
53	M7	69	ARG
53	M7	78	VAL
53	M7	79	THR
53	M7	94	LEU
53	M7	96	GLN
53	M7	107	LEU
53	M7	112	LEU
53	M7	113	TYR
53	M7	114	VAL
53	M7	121	GLN
53	M7	127	ARG
53	M7	154	GLU
53	M7	165	VAL
53	M7	168	LEU
53	M7	176	ILE
53	M7	180	LYS
54	M8	3	ILE
54	M8	6	THR
54	M8	11	LYS
54	M8	17	THR
54	M8	22	ASP
54	M8	24	VAL
54	M8	26	LEU
54	M8	29	LEU
54	M8	32	LEU
54	M8	41	ASP
54	M8	49	LEU
54	M8	50	LYS
54	M8	55	SER
54	M8	57	ILE
54	M8	58	ASN
54	M8	69	ARG
54	M8	74	GLU
54	M8	81	VAL
54	M8	107	THR
54	M8	123	THR
54	M8	135	GLN
54	M8	147	ARG
54	M8	176	ARG
54	M8	181	SER
55	M9	5	ARG
55	M9	20	ARG

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Mol	Chain	Res	Type
55	M9	25	ASP
55	M9	29	THR
55	M9	41	ILE
55	M9	42	ARG
55	M9	52	LYS
55	M9	55	VAL
55	M9	60	LYS
55	M9	70	LYS
55	M9	75	HIS
55	M9	103	ARG
55	M9	104	ARG
55	M9	106	LEU
55	M9	116	ASP
55	M9	120	TYR
55	M9	126	GLU
55	M9	134	HIS
55	M9	138	LEU
55	M9	153	LYS
56	N0	3	HIS
56	N0	8	GLN
56	N0	12	ARG
56	N0	16	THR
56	N0	39	SER
56	N0	45	LEU
56	N0	51	VAL
56	N0	58	ILE
56	N0	62	ASN
56	N0	71	LYS
56	N0	79	VAL
56	N0	80	ARG
56	N0	81	TYR
56	N0	87	THR
56	N0	98	SER
56	N0	106	LEU
56	N0	115	ARG
56	N0	122	HIS
56	N0	132	THR
56	N0	137	ARG
56	N0	141	LYS
56	N0	145	THR
56	N0	155	ARG
56	N0	160	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
56	N0	162	THR
56	N0	167	ARG
56	N0	172	TYR
57	N1	9	SER
57	N1	11	THR
57	N1	12	ARG
57	N1	18	ASP
57	N1	26	HIS
57	N1	27	LEU
57	N1	29	THR
57	N1	31	LEU
57	N1	35	LYS
57	N1	64	VAL
57	N1	71	SER
57	N1	75	ILE
57	N1	80	VAL
57	N1	83	ARG
57	N1	84	TYR
57	N1	96	ILE
57	N1	100	LYS
57	N1	101	CYS
57	N1	102	ARG
57	N1	103	GLN
57	N1	104	GLU
57	N1	106	LEU
57	N1	122	GLN
57	N1	124	VAL
57	N1	127	GLN
57	N1	136	ARG
57	N1	139	ARG
57	N1	141	VAL
57	N1	149	GLN
57	N1	158	THR
58	N2	10	LYS
58	N2	16	THR
58	N2	32	SER
58	N2	38	ILE
58	N2	39	ASP
58	N2	52	ASN
58	N2	66	VAL
58	N2	70	LYS
58	N2	79	LEU

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Mol	Chain	Res	Type
58	N2	88	GLN
58	N2	93	ILE
58	N2	94	ARG
58	N2	100	THR
58	N2	105	LEU
59	N3	12	ARG
59	N3	14	SER
59	N3	33	ASN
59	N3	45	ARG
59	N3	46	LEU
59	N3	63	LYS
59	N3	64	LYS
59	N3	83	LYS
59	N3	98	ASN
59	N3	101	VAL
59	N3	102	ILE
59	N3	104	ASN
59	N3	115	THR
59	N3	120	LYS
59	N3	135	VAL
60	N4	4	GLU
60	N4	5	ILE
60	N4	19	THR
60	N4	52	THR
61	N5	27	ARG
61	N5	38	LEU
61	N5	49	LYS
61	N5	51	VAL
61	N5	58	ASP
61	N5	63	ILE
61	N5	88	MET
61	N5	104	GLU
61	N5	108	LEU
61	N5	112	THR
61	N5	115	ARG
61	N5	130	TYR
61	N5	135	ILE
61	N5	139	ILE
61	N5	142	ILE
62	N6	3	LYS
62	N6	5	SER
62	N6	8	VAL

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Mol	Chain	Res	Type
62	N6	17	LYS
62	N6	32	SER
62	N6	36	SER
62	N6	37	LYS
62	N6	39	LEU
62	N6	42	GLN
62	N6	45	ILE
62	N6	48	LEU
62	N6	56	VAL
62	N6	57	LEU
62	N6	71	SER
62	N6	76	LEU
62	N6	88	GLU
62	N6	112	ASP
62	N6	113	LYS
62	N6	115	ARG
62	N6	120	GLN
62	N6	122	LYS
62	N6	125	LYS
62	N6	126	LEU
62	N6	127	GLU
63	N7	14	VAL
63	N7	17	ARG
63	N7	21	LYS
63	N7	24	VAL
63	N7	29	HIS
63	N7	34	LYS
63	N7	46	ILE
63	N7	53	VAL
63	N7	57	HIS
63	N7	72	ILE
63	N7	81	LEU
63	N7	86	THR
63	N7	89	VAL
63	N7	90	GLU
63	N7	99	GLU
63	N7	103	GLN
63	N7	121	ARG
63	N7	134	LEU
64	N8	2	PRO
64	N8	4	ARG
64	N8	6	THR

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Mol	Chain	Res	Type
64	N8	8	THR
64	N8	12	ARG
64	N8	14	HIS
64	N8	22	ILE
64	N8	42	ARG
64	N8	46	ASP
64	N8	60	TYR
64	N8	72	VAL
64	N8	74	ASN
64	N8	76	ASP
64	N8	91	LEU
64	N8	115	LYS
64	N8	120	ASN
64	N8	130	VAL
64	N8	133	LEU
64	N8	135	GLU
65	N9	14	ARG
65	N9	18	ARG
65	N9	22	LYS
65	N9	25	LYS
65	N9	28	LYS
65	N9	38	LYS
65	N9	59	LYS
66	O0	11	ASN
66	O0	14	LEU
66	O0	16	LEU
66	O0	18	ILE
66	O0	30	THR
66	O0	33	SER
66	O0	41	LEU
66	O0	48	THR
66	O0	52	ARG
66	O0	55	GLU
66	O0	61	MET
66	O0	63	SER
66	O0	76	GLU
66	O0	79	THR
66	O0	83	LYS
66	O0	87	VAL
66	O0	98	SER
67	O1	6	ASP
67	O1	12	TYR

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Mol	Chain	Res	Type
67	O1	13	THR
67	O1	26	LYS
67	O1	31	ARG
67	O1	64	VAL
67	O1	75	ILE
67	O1	76	SER
67	O1	79	ARG
67	O1	84	ASP
67	O1	86	LYS
67	O1	106	THR
67	O1	107	VAL
68	O2	3	SER
68	O2	14	THR
68	O2	19	ARG
68	O2	24	ARG
68	O2	27	ARG
68	O2	31	ASN
68	O2	33	ARG
68	O2	41	VAL
68	O2	44	ARG
68	O2	61	LYS
68	O2	62	LYS
68	O2	63	THR
68	O2	72	LYS
68	O2	73	THR
68	O2	76	VAL
68	O2	83	GLU
68	O2	84	THR
68	O2	95	GLU
68	O2	107	VAL
68	O2	125	ARG
68	O2	128	LEU
69	O3	4	SER
69	O3	6	ARG
69	O3	7	LEU
69	O3	15	SER
69	O3	20	LYS
69	O3	21	ARG
69	O3	28	SER
69	O3	37	THR
69	O3	45	LEU
69	O3	56	SER

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Mol	Chain	Res	Type
69	O3	59	VAL
69	O3	63	LYS
69	O3	70	LYS
69	O3	78	SER
69	O3	82	ARG
69	O3	93	THR
69	O3	98	VAL
69	O3	107	ILE
70	O4	3	GLN
70	O4	16	ARG
70	O4	20	ILE
70	O4	24	LYS
70	O4	29	ILE
70	O4	51	LEU
70	O4	58	ARG
70	O4	65	VAL
70	O4	79	SER
70	O4	86	LYS
70	O4	87	GLU
70	O4	101	VAL
70	O4	105	VAL
71	O5	13	SER
71	O5	15	GLU
71	O5	27	GLU
71	O5	28	LEU
71	O5	46	THR
71	O5	49	LYS
71	O5	71	LYS
71	O5	73	LYS
71	O5	81	ARG
71	O5	89	ARG
71	O5	119	LYS
72	O6	9	ILE
72	O6	11	LEU
72	O6	21	THR
72	O6	25	LYS
72	O6	26	ILE
72	O6	28	TYR
72	O6	36	ARG
72	O6	45	ARG
72	O6	52	PRO
72	O6	57	LEU

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Mol	Chain	Res	Type
72	O6	58	ILE
72	O6	60	LEU
72	O6	62	ARG
72	O6	68	ARG
72	O6	76	ARG
72	O6	80	PHE
72	O6	88	GLU
72	O6	100	HIS
73	O7	3	LYS
73	O7	12	HIS
73	O7	13	ASN
73	O7	15	SER
73	O7	22	CYS
73	O7	25	ARG
73	O7	36	SER
73	O7	55	ARG
73	O7	61	THR
73	O7	75	LYS
73	O7	82	SER
73	O7	84	SER
74	O8	5	ILE
74	O8	6	THR
74	O8	8	ILE
74	O8	22	THR
74	O8	45	VAL
74	O8	46	ARG
74	O8	48	SER
74	O8	53	THR
74	O8	61	LYS
74	O8	64	LYS
74	O8	65	LEU
74	O8	67	GLN
74	O8	68	SER
74	O8	69	LEU
74	O8	77	ARG
74	O8	78	LEU
75	O9	4	GLN
75	O9	11	GLN
75	O9	19	GLN
75	O9	21	ARG
75	O9	23	LEU
75	O9	32	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
75	O9	34	THR
75	O9	41	ARG
76	Q0	78	ILE
76	Q0	83	LYS
76	Q0	85	LEU
76	Q0	94	SER
76	Q0	113	ARG
76	Q0	114	LYS
76	Q0	127	LEU
77	Q1	9	ARG
77	Q1	11	ARG
77	Q1	21	ARG
77	Q1	25	LYS
78	Q2	2	VAL
78	Q2	3	ASN
78	Q2	7	THR
78	Q2	8	ARG
78	Q2	16	THR
78	Q2	20	HIS
78	Q2	26	THR
78	Q2	35	LEU
78	Q2	38	GLN
78	Q2	47	GLN
78	Q2	56	PRO
78	Q2	58	PHE
78	Q2	60	LYS
78	Q2	61	LYS
78	Q2	65	THR
78	Q2	71	ARG
78	Q2	72	LEU
78	Q2	78	LYS
78	Q2	79	THR
78	Q2	83	LEU
78	Q2	84	THR
78	Q2	85	LEU
78	Q2	93	LEU
78	Q2	99	GLN
78	Q2	104	LEU
79	Q3	11	THR
79	Q3	13	LYS
79	Q3	16	VAL
79	Q3	20	SER

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Mol	Chain	Res	Type
79	Q3	24	ARG
79	Q3	28	LYS
79	Q3	40	SER
79	Q3	45	LYS
79	Q3	70	THR
79	Q3	73	THR
79	Q3	81	SER
79	Q3	91	GLU
2	s0	8	ASP
2	s0	9	LEU
2	s0	12	GLU
2	s0	24	LEU
2	s0	28	ASN
2	s0	30	GLN
2	s0	31	VAL
2	s0	45	VAL
2	s0	59	LEU
2	s0	69	ASN
2	s0	71	GLU
2	s0	80	THR
2	s0	81	PHE
2	s0	93	THR
2	s0	110	TYR
2	s0	113	ARG
2	s0	119	ARG
2	s0	131	GLN
2	s0	135	GLU
2	s0	139	VAL
2	s0	144	ILE
2	s0	153	SER
2	s0	158	VAL
2	s0	162	CYS
2	s0	167	LYS
2	s0	172	LEU
2	s0	185	ARG
2	s0	189	VAL
2	s0	198	MET
2	s0	203	PHE
3	s1	21	VAL
3	s1	31	ASP
3	s1	47	LEU
3	s1	48	VAL

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Mol	Chain	Res	Type
3	s1	55	LYS
3	s1	62	LYS
3	s1	65	VAL
3	s1	68	VAL
3	s1	70	LEU
3	s1	81	PHE
3	s1	83	LYS
3	s1	91	VAL
3	s1	103	MET
3	s1	104	ASP
3	s1	105	PHE
3	s1	106	THR
3	s1	110	LEU
3	s1	115	ARG
3	s1	118	GLN
3	s1	120	LEU
3	s1	125	VAL
3	s1	137	ILE
3	s1	148	ASN
3	s1	150	VAL
3	s1	154	SER
3	s1	159	SER
3	s1	169	SER
3	s1	173	THR
3	s1	180	THR
3	s1	181	LEU
3	s1	185	THR
3	s1	189	ILE
3	s1	194	ASN
3	s1	209	ASN
3	s1	215	VAL
3	s1	219	LYS
3	s1	222	LYS
3	s1	223	PHE
3	s1	229	MET
3	s1	232	HIS
3	s1	234	GLU
4	s2	41	LEU
4	s2	53	ILE
4	s2	55	GLU
4	s2	58	LEU
4	s2	67	GLN

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Mol	Chain	Res	Type
4	s2	70	ASP
4	s2	72	LEU
4	s2	78	ASP
4	s2	81	MET
4	s2	82	ASN
4	s2	83	ILE
4	s2	89	GLN
4	s2	91	ARG
4	s2	95	ARG
4	s2	97	ARG
4	s2	111	VAL
4	s2	117	THR
4	s2	139	ILE
4	s2	141	ARG
4	s2	146	THR
4	s2	150	GLN
4	s2	152	HIS
4	s2	153	SER
4	s2	159	THR
4	s2	166	THR
4	s2	169	LEU
4	s2	170	ILE
4	s2	181	SER
4	s2	185	LYS
4	s2	187	LEU
4	s2	194	GLU
4	s2	218	ILE
4	s2	221	THR
4	s2	222	TYR
4	s2	228	ASN
4	s2	229	LEU
4	s2	232	GLU
4	s2	233	GLN
4	s2	237	VAL
4	s2	238	SER
4	s2	246	GLU
5	s3	4	LEU
5	s3	34	TYR
5	s3	53	THR
5	s3	55	THR
5	s3	59	LEU
5	s3	61	GLU

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Mol	Chain	Res	Type
5	s3	67	ASN
5	s3	84	ILE
5	s3	90	ARG
5	s3	91	VAL
5	s3	111	ASN
5	s3	115	ILE
5	s3	116	ARG
5	s3	117	ARG
5	s3	127	MET
5	s3	128	GLU
5	s3	142	LEU
5	s3	158	ILE
5	s3	162	GLN
5	s3	168	ILE
5	s3	176	LEU
5	s3	177	MET
5	s3	196	ARG
5	s3	202	LEU
5	s3	204	ASP
5	s3	212	LYS
5	s3	223	LYS
5	s3	224	ASP
6	s4	12	LEU
6	s4	23	LEU
6	s4	24	SER
6	s4	26	CYS
6	s4	36	HIS
6	s4	38	LEU
6	s4	39	ARG
6	s4	49	ARG
6	s4	51	ARG
6	s4	73	ASP
6	s4	86	PHE
6	s4	98	ASN
6	s4	104	ASP
6	s4	108	ARG
6	s4	109	PHE
6	s4	116	ASP
6	s4	123	LEU
6	s4	126	VAL
6	s4	128	LYS
6	s4	130	GLN

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Mol	Chain	Res	Type
6	s4	131	LEU
6	s4	140	VAL
6	s4	147	ILE
6	s4	148	ARG
6	s4	160	VAL
6	s4	163	ASP
6	s4	180	LEU
6	s4	182	TYR
6	s4	191	ARG
6	s4	221	ARG
6	s4	222	LEU
6	s4	237	SER
6	s4	246	LEU
6	s4	252	ARG
7	s5	25	LEU
7	s5	39	GLU
7	s5	48	PHE
7	s5	51	VAL
7	s5	63	GLN
7	s5	68	ILE
7	s5	76	ARG
7	s5	93	LEU
7	s5	99	MET
7	s5	100	ASN
7	s5	112	ARG
7	s5	125	THR
7	s5	128	ASN
7	s5	148	ARG
7	s5	149	VAL
7	s5	156	ARG
7	s5	157	ARG
7	s5	160	VAL
7	s5	194	LEU
7	s5	199	ILE
7	s5	203	LYS
7	s5	216	GLU
7	s5	219	ARG
7	s5	224	ASN
8	s6	7	TYR
8	s6	10	ASN
8	s6	18	ILE
8	s6	21	GLU

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Mol	Chain	Res	Type
8	s6	22	HIS
8	s6	34	GLN
8	s6	35	GLU
8	s6	43	ASP
8	s6	71	THR
8	s6	73	ILE
8	s6	76	LEU
8	s6	78	THR
8	s6	93	LYS
8	s6	97	VAL
8	s6	108	VAL
8	s6	109	LEU
8	s6	120	GLU
8	s6	121	LEU
8	s6	126	ASP
8	s6	127	THR
8	s6	143	LYS
8	s6	151	ASP
8	s6	153	VAL
8	s6	155	ASP
8	s6	156	PHE
8	s6	157	VAL
8	s6	170	THR
8	s6	171	LYS
8	s6	177	ARG
8	s6	179	VAL
8	s6	180	THR
8	s6	191	ARG
8	s6	215	ARG
9	s7	11	GLN
9	s7	24	PHE
9	s7	28	GLU
9	s7	41	LEU
9	s7	45	SER
9	s7	50	ASP
9	s7	51	VAL
9	s7	62	VAL
9	s7	66	SER
9	s7	88	ARG
9	s7	106	SER
9	s7	108	GLN
9	s7	109	VAL

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Mol	Chain	Res	Type
9	s7	114	ARG
9	s7	116	ARG
9	s7	122	HIS
9	s7	126	LEU
9	s7	129	LEU
9	s7	148	LYS
9	s7	159	VAL
9	s7	162	ILE
9	s7	185	ILE
10	s8	4	SER
10	s8	25	ARG
10	s8	29	LEU
10	s8	36	THR
10	s8	46	VAL
10	s8	59	ARG
10	s8	74	LYS
10	s8	88	ASN
10	s8	111	GLN
10	s8	121	LEU
10	s8	138	ASN
10	s8	149	SER
10	s8	151	LYS
10	s8	152	ILE
10	s8	155	SER
10	s8	165	LEU
10	s8	175	GLN
10	s8	183	ILE
10	s8	184	LEU
11	s9	3	ARG
11	s9	7	THR
11	s9	9	SER
11	s9	28	LEU
11	s9	49	LEU
11	s9	71	PHE
11	s9	78	ARG
11	s9	82	ARG
11	s9	94	ASP
11	s9	109	LEU
11	s9	110	GLN
11	s9	120	LYS
11	s9	121	SER
11	s9	126	ARG

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Mol	Chain	Res	Type
11	s9	130	THR
11	s9	132	ARG
11	s9	134	ILE
11	s9	141	VAL
11	s9	145	SER
11	s9	151	ASP
11	s9	154	LYS
11	s9	161	THR
11	s9	175	ARG
11	s9	180	LYS
81	c0	2	LEU
81	c0	15	LEU
81	c0	20	VAL
81	c0	27	PHE
81	c0	33	GLU
81	c0	47	GLN
81	c0	55	VAL
13	c1	3	THR
13	c1	5	LEU
13	c1	10	GLU
13	c1	21	ASN
13	c1	26	LYS
13	c1	27	THR
13	c1	28	SER
13	c1	31	THR
13	c1	33	ARG
13	c1	56	LYS
13	c1	60	PHE
13	c1	67	ARG
13	c1	74	THR
13	c1	80	MET
13	c1	83	THR
13	c1	90	TYR
13	c1	98	ASN
13	c1	119	VAL
13	c1	125	VAL
14	c2	28	LEU
14	c2	43	ARG
14	c2	45	LEU
14	c2	61	VAL
14	c2	62	LEU
14	c2	66	VAL

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Mol	Chain	Res	Type
14	c2	71	ILE
14	c2	74	LEU
14	c2	85	LYS
14	c2	89	ILE
14	c2	91	VAL
14	c2	103	LEU
14	c2	121	VAL
14	c2	131	ASP
14	c2	132	GLU
14	c2	140	PHE
15	c3	16	ILE
15	c3	20	ARG
15	c3	28	LEU
15	c3	58	HIS
15	c3	64	ARG
15	c3	65	VAL
15	c3	66	ILE
15	c3	70	LYS
15	c3	75	LEU
15	c3	76	LYS
15	c3	78	ASN
15	c3	83	GLU
15	c3	84	ILE
15	c3	88	LEU
15	c3	92	ILE
15	c3	94	LYS
15	c3	110	ASP
15	c3	115	LEU
15	c3	125	LEU
15	c3	139	TRP
16	c4	18	ARG
16	c4	34	SER
16	c4	42	VAL
16	c4	56	SER
16	c4	61	MET
16	c4	81	VAL
16	c4	102	LEU
16	c4	107	ARG
16	c4	114	ARG
16	c4	123	SER
16	c4	124	ASP
16	c4	133	ARG

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Mol	Chain	Res	Type
16	c4	136	ARG
16	c4	137	LEU
17	c5	12	PHE
17	c5	24	LYS
17	c5	27	GLU
17	c5	36	LEU
17	c5	52	LYS
17	c5	69	GLU
17	c5	71	GLU
17	c5	77	ARG
17	c5	78	THR
17	c5	96	ILE
17	c5	97	TYR
17	c5	107	ILE
17	c5	110	GLU
17	c5	121	ILE
17	c5	124	THR
17	c5	127	ARG
18	c6	6	SER
18	c6	17	THR
18	c6	23	LYS
18	c6	28	LEU
18	c6	36	ILE
18	c6	43	ILE
18	c6	53	LEU
18	c6	57	LEU
18	c6	58	ASP
18	c6	67	VAL
18	c6	68	ARG
18	c6	69	VAL
18	c6	90	VAL
18	c6	97	VAL
18	c6	98	ASP
18	c6	114	ARG
18	c6	117	LEU
18	c6	137	ARG
18	c6	140	LYS
82	c7	3	ARG
82	c7	5	ARG
82	c7	6	THR
82	c7	25	THR
82	c7	27	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
82	c7	29	GLN
82	c7	34	LEU
82	c7	38	ILE
82	c7	46	LEU
82	c7	47	ARG
82	c7	69	ILE
82	c7	70	SER
82	c7	77	GLU
82	c7	85	VAL
82	c7	88	VAL
82	c7	104	ASN
82	c7	105	GLN
82	c7	108	ASP
82	c7	110	VAL
82	c7	113	LEU
20	c8	3	LEU
20	c8	4	VAL
20	c8	6	GLN
20	c8	10	SER
20	c8	13	HIS
20	c8	15	LEU
20	c8	20	THR
20	c8	27	LYS
20	c8	40	ARG
20	c8	51	ASP
20	c8	74	GLN
20	c8	75	ASN
20	c8	85	PHE
20	c8	89	GLN
20	c8	92	ILE
20	c8	100	THR
20	c8	104	ASN
20	c8	120	ARG
20	c8	133	VAL
20	c8	138	THR
20	c8	144	ARG
21	c9	6	VAL
21	c9	7	ARG
21	c9	28	LEU
21	c9	70	GLN
21	c9	71	VAL
21	c9	75	LYS

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Mol	Chain	Res	Type
21	c9	86	ARG
21	c9	123	ARG
21	c9	126	GLU
21	c9	131	ASP
21	c9	139	THR
21	c9	140	LEU
22	d0	15	GLN
22	d0	21	LYS
22	d0	22	ILE
22	d0	23	ARG
22	d0	30	LYS
22	d0	31	VAL
22	d0	34	LEU
22	d0	44	ASN
22	d0	57	ARG
22	d0	60	THR
22	d0	65	ILE
22	d0	70	THR
22	d0	72	ASN
22	d0	77	LYS
22	d0	81	THR
22	d0	99	ILE
22	d0	102	ARG
22	d0	103	ILE
22	d0	105	GLN
22	d0	115	GLU
22	d0	118	VAL
23	d1	2	GLU
23	d1	5	LYS
23	d1	10	GLU
23	d1	27	ASP
23	d1	39	VAL
23	d1	49	GLU
23	d1	52	THR
24	d2	7	LEU
24	d2	9	ASP
24	d2	11	LEU
24	d2	23	ARG
24	d2	28	ARG
24	d2	37	PHE
24	d2	93	LEU
24	d2	98	GLN

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Mol	Chain	Res	Type
24	d2	103	ILE
24	d2	117	ARG
24	d2	126	LEU
24	d2	129	VAL
25	d3	7	ARG
25	d3	9	LEU
25	d3	16	ARG
25	d3	19	ARG
25	d3	41	SER
25	d3	55	GLU
25	d3	56	LYS
25	d3	66	SER
25	d3	69	ARG
25	d3	72	VAL
25	d3	73	ARG
25	d3	79	ASN
25	d3	84	THR
25	d3	96	VAL
25	d3	100	ASP
25	d3	103	LEU
25	d3	107	PHE
25	d3	128	SER
25	d3	130	VAL
25	d3	133	LEU
25	d3	138	GLU
26	d4	5	VAL
26	d4	26	ASP
26	d4	34	ASN
26	d4	35	VAL
26	d4	43	LYS
26	d4	44	LEU
26	d4	49	LYS
26	d4	51	GLU
26	d4	58	PHE
26	d4	62	THR
26	d4	77	ASN
26	d4	78	SER
26	d4	81	GLU
26	d4	83	LYS
26	d4	88	THR
26	d4	96	LEU
26	d4	121	THR

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Mol	Chain	Res	Type
26	d4	125	LEU
26	d4	128	LYS
26	d4	133	ASN
27	d5	41	ILE
27	d5	45	GLU
27	d5	52	LYS
27	d5	53	GLU
27	d5	57	TYR
27	d5	60	VAL
27	d5	81	ARG
27	d5	102	THR
28	d6	2	PRO
28	d6	4	LYS
28	d6	11	ASN
28	d6	21	VAL
28	d6	26	CYS
28	d6	33	ASP
28	d6	39	MET
28	d6	53	LEU
28	d6	54	SER
28	d6	67	THR
28	d6	72	HIS
28	d6	74	CYS
28	d6	82	ARG
28	d6	84	VAL
28	d6	87	ARG
28	d6	90	GLU
28	d6	91	ASP
29	d7	3	LEU
29	d7	21	LEU
29	d7	26	GLN
29	d7	34	ASP
29	d7	41	LEU
29	d7	43	ILE
29	d7	44	THR
29	d7	46	VAL
29	d7	52	THR
29	d7	72	LYS
29	d7	77	THR
29	d7	81	ARG
29	d7	82	LYS
30	d8	14	LYS

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Mol	Chain	Res	Type
30	d8	15	VAL
30	d8	19	THR
30	d8	22	ARG
30	d8	27	GLN
30	d8	28	VAL
30	d8	29	ARG
30	d8	30	VAL
30	d8	32	PHE
30	d8	33	LEU
30	d8	40	ILE
30	d8	54	LEU
30	d8	58	GLU
30	d8	64	ARG
30	d8	65	ARG
31	d9	10	HIS
31	d9	21	CYS
31	d9	28	THR
31	d9	30	LEU
31	d9	36	LEU
31	d9	40	ARG
31	d9	42	CYS
31	d9	54	LYS
32	e0	4	VAL
32	e0	10	ARG
32	e0	13	LYS
32	e0	24	THR
32	e0	28	LYS
32	e0	29	LYS
32	e0	44	PHE
32	e0	56	MET
33	e1	78	LYS
33	e1	86	THR
33	e1	90	LYS
33	e1	91	ILE
33	e1	96	LYS
33	e1	98	VAL
33	e1	100	LEU
33	e1	102	VAL
33	e1	106	TYR
33	e1	107	LYS
33	e1	108	VAL
33	e1	113	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
33	e1	115	THR
33	e1	116	LYS
33	e1	135	HIS
33	e1	147	VAL
83	sR	51	ASP
83	sR	52	GLN
83	sR	59	ARG
83	sR	66	HIS
83	sR	76	ASP
83	sR	96	THR
83	sR	106	HIS
83	sR	115	ILE
83	sR	145	LEU
83	sR	149	ASP
83	sR	166	SER
83	sR	167	VAL
83	sR	168	THR
83	sR	176	LYS
83	sR	207	ASP
83	sR	210	LEU
83	sR	232	TYR
83	sR	275	ARG
83	sR	286	GLU
83	sR	290	VAL
83	sR	297	ASP
83	sR	300	THR
84	sM	34	LYS
84	sM	43	ASP
84	sM	48	ARG
84	sM	49	LYS
84	sM	68	ARG
84	sM	70	ASN
84	sM	71	ASN
84	sM	74	LYS
84	sM	75	ASP
84	sM	82	THR
39	l2	15	ILE
39	l2	19	HIS
39	l2	20	THR
39	l2	23	ARG
39	l2	31	THR
39	l2	32	LEU

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Mol	Chain	Res	Type
39	12	44	ILE
39	12	46	LYS
39	12	48	ILE
39	12	61	VAL
39	12	74	GLU
39	12	84	THR
39	12	96	LEU
39	12	98	VAL
39	12	101	VAL
39	12	104	LEU
39	12	109	GLU
39	12	114	SER
39	12	119	LYS
39	12	134	VAL
39	12	137	ILE
39	12	147	ARG
39	12	155	LYS
39	12	157	VAL
39	12	179	LEU
39	12	190	ARG
39	12	193	ARG
39	12	204	MET
39	12	208	ASP
39	12	218	HIS
39	12	224	THR
39	12	241	ARG
39	12	246	LEU
40	13	3	HIS
40	13	4	ARG
40	13	5	LYS
40	13	17	LEU
40	13	19	ARG
40	13	21	ARG
40	13	28	ARG
40	13	37	ARG
40	13	39	LYS
40	13	41	VAL
40	13	43	LEU
40	13	47	LEU
40	13	50	LYS
40	13	55	THR
40	13	77	THR

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Mol	Chain	Res	Type
40	l3	81	THR
40	l3	82	PRO
40	l3	95	THR
40	l3	103	THR
40	l3	110	LEU
40	l3	114	VAL
40	l3	120	LYS
40	l3	127	LYS
40	l3	139	GLN
40	l3	146	ARG
40	l3	148	LEU
40	l3	153	LYS
40	l3	197	GLU
40	l3	202	THR
40	l3	205	VAL
40	l3	208	VAL
40	l3	212	ASN
40	l3	232	ARG
40	l3	235	THR
40	l3	246	LEU
40	l3	249	VAL
40	l3	282	ILE
40	l3	284	ARG
40	l3	287	LYS
40	l3	300	ARG
40	l3	301	THR
40	l3	304	THR
40	l3	319	ASN
40	l3	332	ARG
40	l3	338	LEU
40	l3	340	LYS
40	l3	347	SER
40	l3	348	ARG
40	l3	356	LEU
40	l3	367	LYS
40	l3	383	LEU
41	l4	3	ARG
41	l4	11	LEU
41	l4	25	VAL
41	l4	47	ARG
41	l4	53	SER
41	l4	55	LYS

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Mol	Chain	Res	Type
41	14	60	THR
41	14	92	ASN
41	14	93	MET
41	14	94	CYS
41	14	98	ARG
41	14	105	THR
41	14	120	TYR
41	14	122	THR
41	14	135	VAL
41	14	136	LEU
41	14	138	ARG
41	14	144	LYS
41	14	145	ILE
41	14	148	ILE
41	14	150	LEU
41	14	151	VAL
41	14	152	VAL
41	14	156	LEU
41	14	158	SER
41	14	163	LYS
41	14	176	SER
41	14	177	ASP
41	14	179	LEU
41	14	186	LYS
41	14	187	LEU
41	14	193	LYS
41	14	203	ARG
41	14	206	LEU
41	14	220	ARG
41	14	222	VAL
41	14	223	PRO
41	14	246	ARG
41	14	247	PHE
41	14	258	LEU
41	14	259	ASP
41	14	261	VAL
41	14	265	GLU
41	14	276	LEU
41	14	282	SER
41	14	283	THR
41	14	284	SER
41	14	288	ARG

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Mol	Chain	Res	Type
41	14	289	ILE
41	14	292	SER
41	14	307	GLN
41	14	313	LEU
41	14	316	ASN
41	14	327	LEU
41	14	333	VAL
41	14	347	THR
41	14	356	THR
42	15	5	LYS
42	15	34	LYS
42	15	35	ARG
42	15	51	LEU
42	15	62	CYS
42	15	65	ILE
42	15	69	ILE
42	15	70	THR
42	15	74	VAL
42	15	75	LEU
42	15	84	PRO
42	15	89	THR
42	15	101	THR
42	15	110	LEU
42	15	112	LYS
42	15	113	LEU
42	15	123	GLU
42	15	124	GLU
42	15	128	GLU
42	15	132	THR
42	15	133	GLU
42	15	146	LEU
42	15	148	ILE
42	15	155	THR
42	15	177	GLU
42	15	189	GLU
42	15	190	ILE
42	15	192	PRO
42	15	194	LEU
42	15	195	LEU
42	15	196	ARG
42	15	237	GLU
42	15	241	THR

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Mol	Chain	Res	Type
42	15	254	LYS
42	15	258	LYS
42	15	259	LYS
42	15	261	THR
42	15	268	GLU
42	15	273	ARG
42	15	277	LEU
42	15	282	ARG
42	15	293	LEU
43	16	8	LYS
43	16	20	LYS
43	16	21	THR
43	16	31	ARG
43	16	52	VAL
43	16	64	LEU
43	16	65	ILE
43	16	84	VAL
43	16	93	VAL
43	16	99	GLU
43	16	108	LYS
43	16	129	GLU
43	16	152	THR
43	16	162	SER
43	16	165	LEU
43	16	170	LYS
44	17	26	VAL
44	17	38	LYS
44	17	41	ARG
44	17	52	GLN
44	17	56	GLU
44	17	60	ARG
44	17	77	VAL
44	17	83	LEU
44	17	84	VAL
44	17	87	VAL
44	17	95	ILE
44	17	98	LYS
44	17	113	SER
44	17	118	LYS
44	17	121	LYS
44	17	124	LEU
44	17	138	TYR

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Mol	Chain	Res	Type
44	17	150	LYS
44	17	151	ARG
44	17	153	PHE
44	17	156	ILE
44	17	158	LYS
44	17	175	LYS
44	17	178	ILE
44	17	179	LEU
44	17	183	ASP
44	17	184	LEU
44	17	208	SER
44	17	216	VAL
44	17	218	ARG
44	17	229	PHE
44	17	239	LEU
86	18	26	LEU
86	18	41	GLN
86	18	68	ARG
86	18	69	LEU
86	18	74	THR
86	18	79	GLN
86	18	81	THR
86	18	89	GLU
86	18	90	THR
86	18	95	ASN
86	18	109	LEU
86	18	126	SER
86	18	136	LEU
86	18	149	LYS
86	18	153	ILE
86	18	157	VAL
86	18	160	ILE
86	18	169	LEU
86	18	172	LYS
86	18	180	VAL
86	18	183	LYS
86	18	200	LEU
86	18	211	LEU
86	18	213	LYS
86	18	214	LEU
86	18	224	ASP
86	18	229	VAL

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Mol	Chain	Res	Type
86	18	230	LYS
86	18	241	LYS
86	18	248	LYS
46	19	5	GLN
46	19	6	THR
46	19	18	VAL
46	19	20	ILE
46	19	31	ARG
46	19	33	THR
46	19	34	LEU
46	19	48	VAL
46	19	55	VAL
46	19	68	LEU
46	19	69	ARG
46	19	70	THR
46	19	82	VAL
46	19	90	MET
46	19	92	TYR
46	19	93	VAL
46	19	104	VAL
46	19	105	GLU
46	19	118	LEU
46	19	120	ASP
46	19	129	ARG
46	19	132	VAL
46	19	133	THR
46	19	140	VAL
46	19	143	GLU
46	19	144	ILE
46	19	146	LEU
46	19	147	SER
46	19	149	ASN
46	19	151	VAL
46	19	155	SER
46	19	157	ASN
46	19	161	LEU
46	19	162	GLN
46	19	167	VAL
46	19	179	ILE
46	19	182	SER
47	m0	3	ARG
47	m0	4	ARG

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Mol	Chain	Res	Type
47	m0	15	LYS
47	m0	21	ARG
47	m0	22	TYR
47	m0	26	VAL
47	m0	27	PRO
47	m0	28	ASP
47	m0	31	ILE
47	m0	35	ASP
47	m0	36	LEU
47	m0	42	THR
47	m0	44	ASP
47	m0	48	LEU
47	m0	52	LEU
47	m0	57	LEU
47	m0	71	CYS
47	m0	76	MET
47	m0	80	SER
47	m0	82	ARG
47	m0	83	ASP
47	m0	87	LEU
47	m0	99	ILE
47	m0	121	LYS
47	m0	131	ILE
47	m0	139	ARG
47	m0	142	ASP
47	m0	153	ARG
47	m0	162	GLN
47	m0	167	LEU
47	m0	169	LYS
47	m0	177	ASP
47	m0	178	ARG
47	m0	185	ARG
47	m0	197	VAL
47	m0	200	LEU
47	m0	205	SER
47	m0	206	LEU
47	m0	208	ASN
47	m0	212	GLU
48	m1	10	ARG
48	m1	13	LYS
48	m1	17	LEU
48	m1	31	THR

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Mol	Chain	Res	Type
48	m1	44	THR
48	m1	52	TYR
48	m1	55	ARG
48	m1	85	LYS
48	m1	92	ARG
48	m1	93	ASP
48	m1	97	SER
48	m1	106	ILE
48	m1	107	ASP
48	m1	112	LEU
48	m1	119	SER
48	m1	129	VAL
48	m1	130	VAL
48	m1	140	ARG
48	m1	155	THR
48	m1	157	GLU
48	m1	160	VAL
49	m3	13	HIS
49	m3	46	ILE
49	m3	53	LEU
49	m3	54	LEU
49	m3	55	ARG
49	m3	58	VAL
49	m3	59	ARG
49	m3	62	THR
49	m3	63	VAL
49	m3	67	ARG
49	m3	69	VAL
49	m3	73	ARG
49	m3	79	GLU
49	m3	85	LEU
49	m3	86	THR
49	m3	97	VAL
49	m3	104	ARG
49	m3	107	GLU
49	m3	123	ILE
49	m3	124	ILE
49	m3	131	LYS
49	m3	149	GLN
49	m3	150	PRO
49	m3	162	ASN
49	m3	164	GLU

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Mol	Chain	Res	Type
49	m3	186	ARG
49	m3	189	GLU
50	m4	3	THR
50	m4	6	ILE
50	m4	12	TRP
50	m4	21	VAL
50	m4	37	GLU
50	m4	38	ILE
50	m4	63	VAL
50	m4	66	THR
50	m4	69	THR
50	m4	72	LEU
50	m4	90	VAL
50	m4	107	GLU
50	m4	108	ARG
50	m4	125	LYS
50	m4	128	ARG
50	m4	130	THR
50	m4	135	LEU
51	m5	5	LYS
51	m5	7	LEU
51	m5	10	LEU
51	m5	12	ARG
51	m5	22	LEU
51	m5	49	ARG
51	m5	50	ARG
51	m5	65	ARG
51	m5	68	ARG
51	m5	71	ARG
51	m5	73	ARG
51	m5	75	VAL
51	m5	80	THR
51	m5	84	PRO
51	m5	85	THR
51	m5	96	ARG
51	m5	99	ARG
51	m5	104	GLU
51	m5	108	ARG
51	m5	138	GLN
51	m5	153	ASP
51	m5	165	THR
51	m5	175	ASN

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Mol	Chain	Res	Type
51	m5	176	LYS
51	m5	187	ARG
51	m5	188	ARG
51	m5	201	ARG
52	m6	3	VAL
52	m6	4	GLU
52	m6	66	LYS
52	m6	67	THR
52	m6	77	SER
52	m6	78	ARG
52	m6	85	ARG
52	m6	87	MET
52	m6	100	GLU
52	m6	106	GLU
52	m6	110	PRO
52	m6	117	ARG
52	m6	118	VAL
52	m6	119	VAL
52	m6	124	LEU
52	m6	130	LYS
52	m6	143	THR
52	m6	160	ARG
52	m6	166	GLU
52	m6	171	LYS
52	m6	175	THR
52	m6	180	SER
52	m6	182	ASN
52	m6	184	THR
52	m6	197	LEU
53	m7	7	THR
53	m7	20	SER
53	m7	32	THR
53	m7	41	LEU
53	m7	45	GLN
53	m7	52	LEU
53	m7	61	ARG
53	m7	80	LYS
53	m7	89	LYS
53	m7	94	LEU
53	m7	96	GLN
53	m7	97	ASN
53	m7	107	LEU

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Mol	Chain	Res	Type
53	m7	110	THR
53	m7	112	LEU
53	m7	114	VAL
53	m7	118	GLN
53	m7	120	ASN
53	m7	127	ARG
53	m7	129	THR
53	m7	136	ILE
53	m7	138	LYS
53	m7	142	SER
53	m7	143	PRO
53	m7	150	VAL
53	m7	155	GLU
54	m8	3	ILE
54	m8	12	ARG
54	m8	13	SER
54	m8	17	THR
54	m8	22	ASP
54	m8	24	VAL
54	m8	26	LEU
54	m8	32	LEU
54	m8	39	ARG
54	m8	49	LEU
54	m8	55	SER
54	m8	63	SER
54	m8	64	VAL
54	m8	80	THR
54	m8	81	VAL
54	m8	86	THR
54	m8	93	ILE
54	m8	98	LYS
54	m8	105	ARG
54	m8	122	ILE
54	m8	129	VAL
54	m8	135	GLN
54	m8	144	ARG
54	m8	146	SER
54	m8	147	ARG
54	m8	165	ILE
54	m8	176	ARG
54	m8	178	ARG
55	m9	5	ARG

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Mol	Chain	Res	Type
55	m9	7	GLN
55	m9	10	LEU
55	m9	13	SER
55	m9	17	VAL
55	m9	20	ARG
55	m9	29	THR
55	m9	30	SER
55	m9	36	ASN
55	m9	46	LYS
55	m9	47	ASN
55	m9	56	THR
55	m9	59	SER
55	m9	63	THR
55	m9	70	LYS
55	m9	74	ARG
55	m9	84	THR
55	m9	88	ARG
55	m9	99	LEU
55	m9	103	ARG
55	m9	111	ASP
55	m9	116	ASP
55	m9	117	LYS
55	m9	126	GLU
55	m9	134	HIS
55	m9	139	VAL
55	m9	143	ILE
55	m9	152	GLU
55	m9	153	LYS
55	m9	164	LEU
55	m9	171	ASP
55	m9	186	LYS
56	n0	3	HIS
56	n0	16	THR
56	n0	21	GLU
56	n0	28	ARG
56	n0	32	SER
56	n0	58	ILE
56	n0	62	ASN
56	n0	73	LYS
56	n0	80	ARG
56	n0	88	HIS
56	n0	97	VAL

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Mol	Chain	Res	Type
56	n0	103	VAL
56	n0	105	THR
56	n0	113	ARG
56	n0	117	ARG
56	n0	119	ARG
56	n0	120	SER
56	n0	123	ILE
56	n0	130	GLU
56	n0	137	ARG
56	n0	142	GLN
56	n0	145	THR
56	n0	155	ARG
56	n0	162	THR
56	n0	166	LYS
56	n0	172	TYR
57	n1	27	LEU
57	n1	35	LYS
57	n1	36	VAL
57	n1	41	ASP
57	n1	60	LYS
57	n1	64	VAL
57	n1	68	THR
57	n1	69	LYS
57	n1	78	LYS
57	n1	79	MET
57	n1	80	VAL
57	n1	83	ARG
57	n1	93	VAL
57	n1	94	GLU
57	n1	96	ILE
57	n1	104	GLU
57	n1	110	LYS
57	n1	118	GLU
57	n1	126	VAL
57	n1	131	GLN
57	n1	139	ARG
57	n1	143	THR
57	n1	149	GLN
57	n1	150	THR
58	n2	14	THR
58	n2	20	SER
58	n2	27	VAL

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Mol	Chain	Res	Type
58	n2	28	PHE
58	n2	37	LEU
58	n2	50	LEU
58	n2	54	VAL
58	n2	55	THR
58	n2	57	THR
58	n2	61	THR
58	n2	63	VAL
58	n2	75	TYR
58	n2	94	ARG
58	n2	98	THR
58	n2	105	LEU
59	n3	4	ASN
59	n3	13	ILE
59	n3	45	ARG
59	n3	57	MET
59	n3	58	VAL
59	n3	66	LYS
59	n3	73	VAL
59	n3	88	ARG
59	n3	91	VAL
59	n3	112	SER
59	n3	115	THR
88	n4	1	MET
88	n4	5	ILE
88	n4	7	SER
88	n4	17	ARG
88	n4	23	ARG
88	n4	25	ASP
88	n4	26	SER
88	n4	41	LYS
88	n4	58	HIS
88	n4	63	ILE
88	n4	89	LEU
88	n4	104	ASN
88	n4	127	LYS
61	n5	24	LEU
61	n5	27	ARG
61	n5	34	LEU
61	n5	37	THR
61	n5	39	LYS
61	n5	45	LYS

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Mol	Chain	Res	Type
61	n5	51	VAL
61	n5	52	PRO
61	n5	56	ARG
61	n5	58	ASP
61	n5	63	ILE
61	n5	65	GLN
61	n5	71	THR
61	n5	73	MET
61	n5	74	LYS
61	n5	78	ASP
61	n5	108	LEU
61	n5	109	LYS
61	n5	115	ARG
61	n5	125	ARG
61	n5	133	LEU
61	n5	135	ILE
61	n5	137	ASN
61	n5	138	ARG
62	n6	3	LYS
62	n6	12	ARG
62	n6	13	ARG
62	n6	14	LYS
62	n6	32	SER
62	n6	37	LYS
62	n6	40	ARG
62	n6	45	ILE
62	n6	50	ILE
62	n6	51	ARG
62	n6	56	VAL
62	n6	57	LEU
62	n6	62	SER
62	n6	71	SER
62	n6	74	TYR
62	n6	76	LEU
62	n6	83	ASP
62	n6	102	SER
62	n6	111	LEU
62	n6	112	ASP
62	n6	120	GLN
63	n7	3	LYS
63	n7	17	ARG
63	n7	18	TYR

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Mol	Chain	Res	Type
63	n7	24	VAL
63	n7	34	LYS
63	n7	46	ILE
63	n7	52	LYS
63	n7	53	VAL
63	n7	64	LYS
63	n7	72	ILE
63	n7	73	LYS
63	n7	81	LEU
63	n7	83	THR
63	n7	95	VAL
63	n7	99	GLU
63	n7	100	THR
63	n7	102	GLU
63	n7	121	ARG
63	n7	134	LEU
64	n8	4	ARG
64	n8	8	THR
64	n8	9	ARG
64	n8	10	LYS
64	n8	22	ILE
64	n8	26	ARG
64	n8	34	MET
64	n8	42	ARG
64	n8	60	TYR
64	n8	65	GLN
64	n8	72	VAL
64	n8	73	LEU
64	n8	78	LEU
64	n8	80	THR
64	n8	91	LEU
64	n8	97	GLU
64	n8	133	LEU
65	n9	13	THR
65	n9	14	ARG
65	n9	26	THR
65	n9	38	LYS
65	n9	42	ASN
65	n9	58	LYS
65	n9	59	LYS
66	o0	8	GLU
66	o0	12	GLN

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Mol	Chain	Res	Type
66	o0	33	SER
66	o0	40	LYS
66	o0	41	LEU
66	o0	48	THR
66	o0	61	MET
66	o0	76	GLU
66	o0	86	ARG
66	o0	87	VAL
66	o0	91	SER
66	o0	99	ASP
66	o0	101	LEU
67	o1	6	ASP
67	o1	13	THR
67	o1	16	LEU
67	o1	19	ARG
67	o1	24	SER
67	o1	26	LYS
67	o1	31	ARG
67	o1	34	LYS
67	o1	44	MET
67	o1	50	ARG
67	o1	55	LEU
67	o1	64	VAL
67	o1	68	GLU
67	o1	76	SER
67	o1	81	GLU
67	o1	82	GLU
67	o1	89	LEU
67	o1	90	PHE
67	o1	102	LYS
67	o1	106	THR
68	o2	4	LEU
68	o2	10	VAL
68	o2	14	THR
68	o2	21	HIS
68	o2	24	ARG
68	o2	33	ARG
68	o2	34	LYS
68	o2	41	VAL
68	o2	42	VAL
68	o2	44	ARG
68	o2	45	ARG

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Mol	Chain	Res	Type
68	o2	49	ASN
68	o2	50	ILE
68	o2	51	SER
68	o2	61	LYS
68	o2	67	SER
68	o2	69	SER
68	o2	73	THR
68	o2	75	LEU
68	o2	81	ASP
68	o2	82	LEU
68	o2	86	THR
68	o2	89	THR
68	o2	125	ARG
68	o2	126	LEU
68	o2	128	LEU
69	o3	9	VAL
69	o3	19	SER
69	o3	22	VAL
69	o3	28	SER
69	o3	31	LYS
69	o3	37	THR
69	o3	56	SER
69	o3	59	VAL
69	o3	74	THR
69	o3	80	VAL
69	o3	81	VAL
69	o3	93	THR
69	o3	97	SER
69	o3	98	VAL
69	o3	105	SER
69	o3	107	ILE
70	o4	20	ILE
70	o4	21	LYS
70	o4	29	ILE
70	o4	58	ARG
70	o4	64	THR
70	o4	65	VAL
70	o4	68	THR
70	o4	71	THR
70	o4	80	ARG
70	o4	83	ASN
70	o4	88	ARG

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Mol	Chain	Res	Type
70	o4	98	GLN
71	o5	11	THR
71	o5	15	GLU
71	o5	20	GLN
71	o5	23	ASP
71	o5	27	GLU
71	o5	28	LEU
71	o5	45	LYS
71	o5	47	VAL
71	o5	48	ARG
71	o5	53	CYS
71	o5	62	GLN
71	o5	63	ARG
71	o5	67	ARG
71	o5	69	LEU
71	o5	80	LEU
71	o5	81	ARG
71	o5	89	ARG
71	o5	90	ARG
71	o5	99	GLN
71	o5	113	GLN
71	o5	119	LYS
72	o6	9	ILE
72	o6	11	LEU
72	o6	17	VAL
72	o6	21	THR
72	o6	35	ASN
72	o6	36	ARG
72	o6	45	ARG
72	o6	57	LEU
72	o6	58	ILE
72	o6	62	ARG
72	o6	68	ARG
72	o6	76	ARG
72	o6	81	THR
72	o6	88	GLU
72	o6	94	ILE
72	o6	98	ARG
73	o7	7	SER
73	o7	15	SER
73	o7	21	ARG
73	o7	22	CYS

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Mol	Chain	Res	Type
73	o7	25	ARG
73	o7	26	SER
73	o7	33	THR
73	o7	36	SER
73	o7	40	PRO
73	o7	45	ARG
73	o7	55	ARG
73	o7	58	THR
73	o7	59	THR
73	o7	64	MET
73	o7	65	ARG
73	o7	67	LEU
74	o8	17	ARG
74	o8	31	LEU
74	o8	41	THR
74	o8	51	LEU
74	o8	52	TYR
74	o8	53	THR
74	o8	61	LYS
74	o8	64	LYS
74	o8	65	LEU
75	o9	5	LYS
75	o9	11	GLN
75	o9	15	LYS
75	o9	21	ARG
75	o9	45	ARG
76	q0	79	GLU
76	q0	85	LEU
76	q0	88	LYS
76	q0	106	ARG
76	q0	112	LYS
76	q0	113	ARG
76	q0	127	LEU
77	q1	2	ARG
77	q1	6	ARG
77	q1	10	THR
77	q1	13	LEU
77	q1	18	ARG
77	q1	19	LYS
77	q1	21	ARG
77	q1	23	ARG
77	q1	25	LYS

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Mol	Chain	Res	Type
78	q2	2	VAL
78	q2	8	ARG
78	q2	16	THR
78	q2	45	ARG
78	q2	55	LYS
78	q2	60	LYS
78	q2	61	LYS
78	q2	64	THR
78	q2	71	ARG
78	q2	72	LEU
78	q2	78	LYS
78	q2	84	THR
78	q2	93	LEU
78	q2	96	GLU
78	q2	98	LYS
78	q2	99	GLN
78	q2	100	LYS
78	q2	105	GLN
78	q2	106	PHE
79	q3	3	LYS
79	q3	4	ARG
79	q3	23	ARG
79	q3	41	PHE
79	q3	46	THR
79	q3	54	ILE
79	q3	56	THR
79	q3	58	SER
79	q3	59	CYS
79	q3	73	THR
79	q3	79	VAL
79	q3	81	SER
79	q3	89	MET
89	p0	4	ILE
89	p0	5	ARG
89	p0	15	LEU
89	p0	39	HIS
89	p0	51	VAL
89	p0	55	LYS
89	p0	57	THR
89	p0	67	LEU
89	p0	68	SER
89	p0	70	LEU

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Mol	Chain	Res	Type
89	p0	84	VAL
89	p0	91	GLU
89	p0	93	LEU
89	p0	97	LYS
89	p0	104	ARG
89	p0	196	VAL

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (90) such sidechains are listed below:

Mol	Chain	Res	Type
3	S1	199	ASN
3	S1	209	ASN
4	S2	152	HIS
4	S2	209	ASN
5	S3	165	ASN
7	S5	86	GLN
7	S5	186	ASN
9	S7	71	HIS
19	C7	29	GLN
19	C7	105	GLN
20	C8	78	HIS
20	C8	99	HIS
21	C9	43	ASN
21	C9	48	GLN
21	C9	101	ASN
23	D1	75	ASN
24	D2	64	GLN
34	SR	268	GLN
39	L2	209	HIS
39	L2	233	GLN
40	L3	231	HIS
40	L3	279	ASN
40	L3	345	ASN
41	L4	48	GLN
41	L4	304	GLN
42	L5	81	HIS
42	L5	264	GLN
45	L8	28	HIS
45	L8	138	HIS
47	M0	73	ASN
47	M0	163	GLN
48	M1	7	ASN

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Mol	Chain	Res	Type
49	M3	19	GLN
50	M4	56	GLN
51	M5	57	GLN
52	M6	31	GLN
55	M9	66	HIS
56	N0	89	ASN
57	N1	54	HIS
59	N3	33	ASN
68	O2	35	GLN
69	O3	106	ASN
70	O4	18	ASN
70	O4	98	GLN
78	Q2	23	HIS
78	Q2	47	GLN
78	Q2	102	GLN
79	Q3	34	HIS
2	s0	32	HIS
2	s0	46	HIS
3	s1	118	GLN
3	s1	209	ASN
9	s7	71	HIS
10	s8	138	ASN
11	s9	110	GLN
11	s9	124	HIS
81	c0	32	HIS
82	c7	104	ASN
82	c7	105	GLN
24	d2	24	GLN
24	d2	44	HIS
25	d3	27	ASN
26	d4	22	GLN
28	d6	43	ASN
30	d8	27	GLN
32	e0	63	GLN
39	l2	215	ASN
40	l3	371	GLN
41	l4	92	ASN
41	l4	304	GLN
42	l5	57	ASN
86	l8	38	GLN
46	l9	58	HIS
46	l9	162	GLN

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Mol	Chain	Res	Type
47	m0	55	ASN
47	m0	113	GLN
52	m6	26	GLN
55	m9	121	HIS
57	n1	49	GLN
59	n3	33	ASN
63	n7	57	HIS
67	o1	57	GLN
68	o2	71	HIS
71	o5	99	GLN
72	o6	63	ASN
75	o9	4	GLN
78	q2	102	GLN
79	q3	34	HIS
89	p0	36	GLN
89	p0	83	ASN

### 5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	2	1776/1812 (98%)	474 (26%)	47 (2%)
36	1	3145/3149 (99%)	753 (23%)	72 (2%)
37	3	120/121 (99%)	16 (13%)	3 (2%)
37	7	120/121 (99%)	21 (17%)	2 (1%)
38	4	157/158 (99%)	46 (29%)	3 (1%)
38	8	157/158 (99%)	39 (24%)	2 (1%)
80	6	1792/1800 (99%)	461 (25%)	54 (3%)
85	5	3145/3150 (99%)	767 (24%)	85 (2%)
91	P	1/5 (20%)	0	0
91	p	1/5 (20%)	0	0
All	All	10414/10479 (99%)	2577 (24%)	268 (2%)

All (2577) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	2	2	A
1	2	4	C
1	2	17	C
1	2	25	C
1	2	26	A
1	2	27	U

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Mol	Chain	Res	Type
1	2	34	G
1	2	42	G
1	2	45	U
1	2	46	A
1	2	47	A
1	2	56	U
1	2	57	G
1	2	60	U
1	2	66	U
1	2	67	A
1	2	68	A
1	2	69	G
1	2	72	A
1	2	73	U
1	2	74	U
1	2	75	U
1	2	76	A
1	2	77	U
1	2	101	U
1	2	104	A
1	2	114	C
1	2	126	A
1	2	127	G
1	2	131	C
1	2	132	U
1	2	133	U
1	2	134	U
1	2	135	A
1	2	136	C
1	2	137	U
1	2	140	A
1	2	141	U
1	2	143	G
1	2	144	U
1	2	145	A
1	2	146	U
1	2	153	G
1	2	158	U
1	2	159	U
1	2	166	C
1	2	169	A
1	2	178	U

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Mol	Chain	Res	Type
1	2	179	A
1	2	185	U
1	2	186	C
1	2	188	A
1	2	190	C
1	2	191	C
1	2	192	U
1	2	193	U
1	2	194	U
1	2	195	G
1	2	197	A
1	2	200	A
1	2	215	A
1	2	217	A
1	2	219	A
1	2	226	A
1	2	227	U
1	2	228	G
1	2	229	U
1	2	233	C
1	2	234	G
1	2	235	G
1	2	236	A
1	2	238	U
1	2	239	C
1	2	240	U
1	2	241	U
1	2	250	C
1	2	254	A
1	2	261	U
1	2	265	A
1	2	269	G
1	2	271	A
1	2	272	U
1	2	275	C
1	2	276	C
1	2	277	U
1	2	278	U
1	2	279	G
1	2	280	U
1	2	281	G
1	2	284	G

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Mol	Chain	Res	Type
1	2	288	A
1	2	299	A
1	2	302	U
1	2	309	C
1	2	314	C
1	2	316	A
1	2	319	U
1	2	321	C
1	2	333	A
1	2	337	G
1	2	338	C
1	2	352	A
1	2	359	A
1	2	360	A
1	2	361	C
1	2	380	U
1	2	390	G
1	2	393	C
1	2	399	A
1	2	402	C
1	2	404	G
1	2	416	A
1	2	418	G
1	2	421	A
1	2	423	G
1	2	424	C
1	2	425	A
1	2	426	G
1	2	428	A
1	2	433	C
1	2	434	G
1	2	437	A
1	2	439	U
1	2	444	C
1	2	448	C
1	2	452	A
1	2	454	U
1	2	455	C
1	2	464	A
1	2	468	A
1	2	470	A
1	2	475	A

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Mol	Chain	Res	Type
1	2	484	C
1	2	485	A
1	2	486	G
1	2	488	G
1	2	493	U
1	2	494	U
1	2	495	C
1	2	496	G
1	2	497	G
1	2	498	G
1	2	499	U
1	2	500	C
1	2	502	U
1	2	503	G
1	2	504	U
1	2	505	A
1	2	506	A
1	2	507	U
1	2	508	U
1	2	510	G
1	2	511	A
1	2	513	U
1	2	514	G
1	2	515	A
1	2	516	G
1	2	520	A
1	2	527	A
1	2	532	U
1	2	538	A
1	2	539	G
1	2	540	G
1	2	541	A
1	2	542	A
1	2	543	C
1	2	544	A
1	2	548	G
1	2	555	A
1	2	556	A
1	2	557	G
1	2	558	U
1	2	559	C
1	2	565	C

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Mol	Chain	Res	Type
1	2	578	U
1	2	579	A
1	2	580	A
1	2	585	A
1	2	594	A
1	2	595	G
1	2	606	A
1	2	619	A
1	2	620	A
1	2	622	A
1	2	623	A
1	2	624	G
1	2	629	U
1	2	635	A
1	2	639	U
1	2	640	U
1	2	649	U
1	2	650	U
1	2	653	C
1	2	654	C
1	2	655	G
1	2	656	G
1	2	657	U
1	2	658	C
1	2	660	G
1	2	662	U
1	2	663	U
1	2	665	C
1	2	667	A
1	2	669	C
1	2	677	U
1	2	679	C
1	2	680	C
1	2	683	C
1	2	685	G
1	2	686	G
1	2	687	C
1	2	688	U
1	2	689	A
1	2	690	A
1	2	692	C
1	2	693	U

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Mol	Chain	Res	Type
1	2	694	U
1	2	695	G
1	2	697	G
1	2	700	C
1	2	701	U
1	2	702	U
1	2	703	G
1	2	704	U
1	2	705	G
1	2	706	G
1	2	708	U
1	2	710	U
1	2	713	G
1	2	714	C
1	2	715	G
1	2	716	A
1	2	717	A
1	2	718	C
1	2	719	C
1	2	720	A
1	2	721	G
1	2	725	U
1	2	726	U
1	2	728	U
1	2	737	A
1	2	738	A
1	2	739	A
1	2	742	U
1	2	748	G
1	2	749	U
1	2	754	A
1	2	757	A
1	2	758	G
1	2	761	G
1	2	764	U
1	2	765	U
1	2	766	G
1	2	767	C
1	2	772	A
1	2	776	A
1	2	777	U
1	2	795	A

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Mol	Chain	Res	Type
1	2	798	G
1	2	799	G
1	2	801	C
1	2	802	G
1	2	803	U
1	2	804	U
1	2	806	G
1	2	807	G
1	2	812	A
1	2	813	U
1	2	814	U
1	2	816	U
1	2	829	G
1	2	831	C
1	2	835	C
1	2	839	A
1	2	845	A
1	2	846	A
1	2	848	A
1	2	879	U
1	2	881	A
1	2	895	U
1	2	897	G
1	2	899	U
1	2	904	U
1	2	909	A
1	2	916	A
1	2	917	C
1	2	918	U
1	2	925	G
1	2	927	A
1	2	934	A
1	2	943	U
1	2	949	A
1	2	971	A
1	2	975	A
1	2	976	A
1	2	980	G
1	2	986	A
1	2	987	U
1	2	988	A
1	2	1009	A

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Mol	Chain	Res	Type
1	2	1011	C
1	2	1022	A
1	2	1023	G
1	2	1035	U
1	2	1036	G
1	2	1041	U
1	2	1042	U
1	2	1044	A
1	2	1057	G
1	2	1062	U
1	2	1064	A
1	2	1065	C
1	2	1069	A
1	2	1074	A
1	2	1075	A
1	2	1079	C
1	2	1080	U
1	2	1083	G
1	2	1121	A
1	2	1129	G
1	2	1132	G
1	2	1133	G
1	2	1134	A
1	2	1141	C
1	2	1142	C
1	2	1143	A
1	2	1147	G
1	2	1150	G
1	2	1168	U
1	2	1174	U
1	2	1177	A
1	2	1179	A
1	2	1180	C
1	2	1181	G
1	2	1182	G
1	2	1183	G
1	2	1185	A
1	2	1190	C
1	2	1191	A
1	2	1200	A
1	2	1201	G
1	2	1210	A

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Mol	Chain	Res	Type
1	2	1211	G
1	2	1212	G
1	2	1213	A
1	2	1226	G
1	2	1227	A
1	2	1228	G
1	2	1234	U
1	2	1235	C
1	2	1241	U
1	2	1259	U
1	2	1267	C
1	2	1269	U
1	2	1297	U
1	2	1298	U
1	2	1299	G
1	2	1303	U
1	2	1304	A
1	2	1320	A
1	2	1322	C
1	2	1323	U
1	2	1327	A
1	2	1328	A
1	2	1329	A
1	2	1332	G
1	2	1337	G
1	2	1338	C
1	2	1345	U
1	2	1346	U
1	2	1347	G
1	2	1353	U
1	2	1354	A
1	2	1355	U
1	2	1361	U
1	2	1365	A
1	2	1366	G
1	2	1367	A
1	2	1373	U
1	2	1381	U
1	2	1382	C
1	2	1393	A
1	2	1395	G
1	2	1396	U

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Mol	Chain	Res	Type
1	2	1398	U
1	2	1401	G
1	2	1407	A
1	2	1410	A
1	2	1411	G
1	2	1415	U
1	2	1418	G
1	2	1419	A
1	2	1420	U
1	2	1429	A
1	2	1431	G
1	2	1439	C
1	2	1440	C
1	2	1442	C
1	2	1443	A
1	2	1454	A
1	2	1456	U
1	2	1457	G
1	2	1458	A
1	2	1460	G
1	2	1465	C
1	2	1469	G
1	2	1472	U
1	2	1473	C
1	2	1474	U
1	2	1475	A
1	2	1476	A
1	2	1484	C
1	2	1489	G
1	2	1497	U
1	2	1499	A
1	2	1500	U
1	2	1506	G
1	2	1507	A
1	2	1509	A
1	2	1510	C
1	2	1518	U
1	2	1519	G
1	2	1520	C
1	2	1521	U
1	2	1523	G
1	2	1525	G

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Mol	Chain	Res	Type
1	2	1540	U
1	2	1542	A
1	2	1552	A
1	2	1555	G
1	2	1557	G
1	2	1567	G
1	2	1573	G
1	2	1584	G
1	2	1588	G
1	2	1597	A
1	2	1599	G
1	2	1609	U
1	2	1614	A
1	2	1617	C
1	2	1618	A
1	2	1619	C
1	2	1621	G
1	2	1640	U
1	2	1641	G
1	2	1656	G
1	2	1663	G
1	2	1666	C
1	2	1667	U
1	2	1713	A
1	2	1714	A
1	2	1743	G
1	2	1745	A
1	2	1749	A
1	2	1752	U
1	2	1763	G
1	2	1765	A
1	2	1766	C
1	2	1768	U
1	2	1775	G
1	2	1776	G
1	2	1777	A
1	2	1778	U
1	2	1779	C
1	2	1781	U
1	2	1793	G
1	2	1794	G
1	2	1795	G

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Mol	Chain	Res	Type
1	2	1796	C
1	2	1797	A
1	2	1798	A
1	2	1807	C
1	2	1808	A
1	2	1809	G
36	1	10	C
36	1	11	A
36	1	14	U
36	1	16	A
36	1	26	A
36	1	40	A
36	1	43	A
36	1	45	A
36	1	49	A
36	1	59	G
36	1	60	A
36	1	65	A
36	1	66	A
36	1	72	C
36	1	73	C
36	1	74	G
36	1	75	G
36	1	76	G
36	1	79	U
36	1	83	U
36	1	92	G
36	1	93	C
36	1	94	G
36	1	97	U
36	1	99	A
36	1	105	C
36	1	109	A
36	1	110	G
36	1	111	C
36	1	113	C
36	1	116	A
36	1	117	U
36	1	121	A
36	1	122	A
36	1	126	U
36	1	133	U

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Mol	Chain	Res	Type
36	1	135	C
36	1	136	G
36	1	142	C
36	1	147	U
36	1	154	U
36	1	156	G
36	1	166	C
36	1	170	G
36	1	173	G
36	1	187	A
36	1	190	U
36	1	191	U
36	1	192	C
36	1	201	A
36	1	205	C
36	1	206	G
36	1	210	U
36	1	213	A
36	1	218	G
36	1	219	A
36	1	234	G
36	1	237	G
36	1	240	U
36	1	241	G
36	1	243	G
36	1	245	U
36	1	249	U
36	1	250	U
36	1	251	G
36	1	252	U
36	1	257	U
36	1	269	G
36	1	275	U
36	1	283	G
36	1	286	U
36	1	295	A
36	1	298	U
36	1	301	G
36	1	305	U
36	1	315	C
36	1	316	U
36	1	323	A

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Mol	Chain	Res	Type
36	1	329	U
36	1	336	A
36	1	338	A
36	1	339	C
36	1	349	A
36	1	350	C
36	1	366	A
36	1	370	U
36	1	376	G
36	1	383	G
36	1	395	A
36	1	398	A
36	1	399	A
36	1	401	U
36	1	402	A
36	1	403	C
36	1	404	G
36	1	421	G
36	1	422	A
36	1	429	U
36	1	438	A
36	1	439	C
36	1	440	A
36	1	495	G
36	1	498	A
36	1	520	U
36	1	521	A
36	1	535	G
36	1	543	C
36	1	544	C
36	1	546	C
36	1	547	G
36	1	548	G
36	1	552	G
36	1	555	U
36	1	557	A
36	1	559	A
36	1	560	G
36	1	578	A
36	1	579	G
36	1	585	A
36	1	591	G

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Mol	Chain	Res	Type
36	1	592	A
36	1	604	G
36	1	609	G
36	1	611	A
36	1	619	A
36	1	620	U
36	1	621	A
36	1	622	A
36	1	623	U
36	1	636	C
36	1	637	C
36	1	638	C
36	1	640	U
36	1	649	A
36	1	657	A
36	1	660	A
36	1	662	U
36	1	677	A
36	1	681	U
36	1	691	A
36	1	705	A
36	1	708	G
36	1	709	A
36	1	712	G
36	1	715	A
36	1	716	A
36	1	719	U
36	1	720	A
36	1	758	C
36	1	764	U
36	1	765	C
36	1	766	U
36	1	767	U
36	1	775	A
36	1	776	U
36	1	777	U
36	1	780	A
36	1	781	G
36	1	785	G
36	1	786	A
36	1	791	A
36	1	792	G

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Mol	Chain	Res	Type
36	1	799	G
36	1	806	A
36	1	816	A
36	1	817	A
36	1	830	A
36	1	834	U
36	1	849	C
36	1	861	C
36	1	868	C
36	1	874	U
36	1	879	U
36	1	883	A
36	1	890	C
36	1	907	G
36	1	908	G
36	1	914	A
36	1	916	G
36	1	917	A
36	1	923	C
36	1	924	G
36	1	929	A
36	1	937	G
36	1	944	C
36	1	953	G
36	1	959	C
36	1	960	U
36	1	967	A
36	1	979	U
36	1	980	A
36	1	981	U
36	1	982	C
36	1	993	G
36	1	994	G
36	1	1001	G
36	1	1002	A
36	1	1006	A
36	1	1010	G
36	1	1013	G
36	1	1017	C
36	1	1018	G
36	1	1020	G
36	1	1021	G

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Mol	Chain	Res	Type
36	1	1024	G
36	1	1025	A
36	1	1029	G
36	1	1036	A
36	1	1037	C
36	1	1038	C
36	1	1047	A
36	1	1049	C
36	1	1052	U
36	1	1063	G
36	1	1064	A
36	1	1065	A
36	1	1071	U
36	1	1072	G
36	1	1081	U
36	1	1082	U
36	1	1083	G
36	1	1085	A
36	1	1093	A
36	1	1094	U
36	1	1095	U
36	1	1096	U
36	1	1097	G
36	1	1098	A
36	1	1101	G
36	1	1103	A
36	1	1104	G
36	1	1111	U
36	1	1117	G
36	1	1131	G
36	1	1143	A
36	1	1144	U
36	1	1153	A
36	1	1154	A
36	1	1159	A
36	1	1160	C
36	1	1178	G
36	1	1179	A
36	1	1180	A
36	1	1181	U
36	1	1182	A
36	1	1190	A

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Mol	Chain	Res	Type
36	1	1191	U
36	1	1192	C
36	1	1196	C
36	1	1197	A
36	1	1200	A
36	1	1201	C
36	1	1202	A
36	1	1209	G
36	1	1216	C
36	1	1217	A
36	1	1221	A
36	1	1222	G
36	1	1225	A
36	1	1227	C
36	1	1232	C
36	1	1236	G
36	1	1237	G
36	1	1241	U
36	1	1243	G
36	1	1245	A
36	1	1246	G
36	1	1248	C
36	1	1249	G
36	1	1253	U
36	1	1254	C
36	1	1258	U
36	1	1262	G
36	1	1263	A
36	1	1264	G
36	1	1266	G
36	1	1269	U
36	1	1270	A
36	1	1271	A
36	1	1274	A
36	1	1278	A
36	1	1279	C
36	1	1285	G
36	1	1286	A
36	1	1287	A
36	1	1300	G
36	1	1303	A
36	1	1305	U

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Mol	Chain	Res	Type
36	1	1308	A
36	1	1309	U
36	1	1313	G
36	1	1314	C
36	1	1318	A
36	1	1323	G
36	1	1330	A
36	1	1337	A
36	1	1348	U
36	1	1349	G
36	1	1351	U
36	1	1352	A
36	1	1353	U
36	1	1355	A
36	1	1356	U
36	1	1357	G
36	1	1380	G
36	1	1386	A
36	1	1391	C
36	1	1392	G
36	1	1399	A
36	1	1400	G
36	1	1406	A
36	1	1407	A
36	1	1409	G
36	1	1415	U
36	1	1416	C
36	1	1417	G
36	1	1418	A
36	1	1419	A
36	1	1426	C
36	1	1431	G
36	1	1433	A
36	1	1434	G
36	1	1437	C
36	1	1446	A
36	1	1450	G
36	1	1453	A
36	1	1455	U
36	1	1460	A
36	1	1466	G
36	1	1475	A

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Mol	Chain	Res	Type
36	1	1481	A
36	1	1482	A
36	1	1485	G
36	1	1489	A
36	1	1493	G
36	1	1502	C
36	1	1508	C
36	1	1524	A
36	1	1527	C
36	1	1536	G
36	1	1555	U
36	1	1556	C
36	1	1557	A
36	1	1560	G
36	1	1561	G
36	1	1562	C
36	1	1563	C
36	1	1564	U
36	1	1566	A
36	1	1567	U
36	1	1568	U
36	1	1569	U
36	1	1570	U
36	1	1572	U
36	1	1576	G
36	1	1580	A
36	1	1582	C
36	1	1583	A
36	1	1587	A
36	1	1589	A
36	1	1596	C
36	1	1607	U
36	1	1620	U
36	1	1629	U
36	1	1633	C
36	1	1639	C
36	1	1641	U
36	1	1642	A
36	1	1643	A
36	1	1645	U
36	1	1657	C
36	1	1658	G

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Mol	Chain	Res	Type
36	1	1683	A
36	1	1688	U
36	1	1689	U
36	1	1713	G
36	1	1716	U
36	1	1717	U
36	1	1724	U
36	1	1725	C
36	1	1730	G
36	1	1736	G
36	1	1741	A
36	1	1742	U
36	1	1750	A
36	1	1751	G
36	1	1761	C
36	1	1762	C
36	1	1765	U
36	1	1766	G
36	1	1767	C
36	1	1770	G
36	1	1775	G
36	1	1780	G
36	1	1781	C
36	1	1794	G
36	1	1797	A
36	1	1807	G
36	1	1808	G
36	1	1810	A
36	1	1812	G
36	1	1814	A
36	1	1815	U
36	1	1816	A
36	1	1817	G
36	1	1819	U
36	1	1820	U
36	1	1821	U
36	1	1822	C
36	1	1835	A
36	1	1837	U
36	1	1839	A
36	1	1841	A
36	1	1842	A

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Mol	Chain	Res	Type
36	1	1846	C
36	1	1849	C
36	1	1850	A
36	1	1863	G
36	1	1866	C
36	1	1879	A
36	1	1880	U
36	1	1896	A
36	1	1901	A
36	1	1906	G
36	1	1935	G
36	1	1948	G
36	1	1951	C
36	1	1952	G
36	1	1954	G
36	1	2101	C
36	1	2102	U
36	1	2111	G
36	1	2112	U
36	1	2113	A
36	1	2114	C
36	1	2121	G
36	1	2122	G
36	1	2130	G
36	1	2131	A
36	1	2134	G
36	1	2137	U
36	1	2140	U
36	1	2144	A
36	1	2147	A
36	1	2149	A
36	1	2152	A
36	1	2158	A
36	1	2164	A
36	1	2169	G
36	1	2170	U
36	1	2179	C
36	1	2188	A
36	1	2195	C
36	1	2198	A
36	1	2205	U
36	1	2208	A

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Mol	Chain	Res	Type
36	1	2209	U
36	1	2210	G
36	1	2223	A
36	1	2228	A
36	1	2242	A
36	1	2244	A
36	1	2249	G
36	1	2250	G
36	1	2255	A
36	1	2256	A
36	1	2257	C
36	1	2270	A
36	1	2272	G
36	1	2276	G
36	1	2280	A
36	1	2281	A
36	1	2282	U
36	1	2283	G
36	1	2284	C
36	1	2288	G
36	1	2307	G
36	1	2308	C
36	1	2310	U
36	1	2313	A
36	1	2314	U
36	1	2315	G
36	1	2324	A
36	1	2331	C
36	1	2334	U
36	1	2336	U
36	1	2350	C
36	1	2372	A
36	1	2373	A
36	1	2374	C
36	1	2375	G
36	1	2385	G
36	1	2388	U
36	1	2393	G
36	1	2394	G
36	1	2397	A
36	1	2401	A
36	1	2402	A

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Mol	Chain	Res	Type
36	1	2403	G
36	1	2404	A
36	1	2411	U
36	1	2418	G
36	1	2419	A
36	1	2427	U
36	1	2429	G
36	1	2444	C
36	1	2445	A
36	1	2502	A
36	1	2503	G
36	1	2504	U
36	1	2507	C
36	1	2514	U
36	1	2515	A
36	1	2522	G
36	1	2523	A
36	1	2525	G
36	1	2530	G
36	1	2531	C
36	1	2532	U
36	1	2533	G
36	1	2537	U
36	1	2538	U
36	1	2539	C
36	1	2540	A
36	1	2541	U
36	1	2542	U
36	1	2543	U
36	1	2544	U
36	1	2547	A
36	1	2548	C
36	1	2549	G
36	1	2552	C
36	1	2554	A
36	1	2555	G
36	1	2561	A
36	1	2568	C
36	1	2569	A
36	1	2570	U
36	1	2571	U
36	1	2572	C

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Mol	Chain	Res	Type
36	1	2573	G
36	1	2576	G
36	1	2580	A
36	1	2581	U
36	1	2585	G
36	1	2586	G
36	1	2593	A
36	1	2594	C
36	1	2598	G
36	1	2599	U
36	1	2606	G
36	1	2607	G
36	1	2614	G
36	1	2626	A
36	1	2634	U
36	1	2652	U
36	1	2656	A
36	1	2664	C
36	1	2674	A
36	1	2675	C
36	1	2676	A
36	1	2677	G
36	1	2689	A
36	1	2690	G
36	1	2691	A
36	1	2692	A
36	1	2694	A
36	1	2696	A
36	1	2705	A
36	1	2709	C
36	1	2714	G
36	1	2725	U
36	1	2727	A
36	1	2728	G
36	1	2729	U
36	1	2734	A
36	1	2735	U
36	1	2737	C
36	1	2742	C
36	1	2752	U
36	1	2753	G
36	1	2755	C

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Mol	Chain	Res	Type
36	1	2762	A
36	1	2772	C
36	1	2773	C
36	1	2776	C
36	1	2777	G
36	1	2778	G
36	1	2779	A
36	1	2795	U
36	1	2796	G
36	1	2797	C
36	1	2799	A
36	1	2800	G
36	1	2801	A
36	1	2802	A
36	1	2803	A
36	1	2810	C
36	1	2814	G
36	1	2815	G
36	1	2817	A
36	1	2818	U
36	1	2819	A
36	1	2827	U
36	1	2834	G
36	1	2842	U
36	1	2843	U
36	1	2845	A
36	1	2849	C
36	1	2859	U
36	1	2867	C
36	1	2869	U
36	1	2870	C
36	1	2871	G
36	1	2872	A
36	1	2875	U
36	1	2876	C
36	1	2878	G
36	1	2886	U
36	1	2887	A
36	1	2889	C
36	1	2898	G
36	1	2899	C
36	1	2900	A

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Mol	Chain	Res	Type
36	1	2901	G
36	1	2914	G
36	1	2923	U
36	1	2927	C
36	1	2935	U
36	1	2936	A
36	1	2938	G
36	1	2941	A
36	1	2942	C
36	1	2945	G
36	1	2946	A
36	1	2947	G
36	1	2951	G
36	1	2972	G
36	1	2979	U
36	1	2983	C
36	1	2990	G
36	1	3003	G
36	1	3004	C
36	1	3005	A
36	1	3012	A
36	1	3025	C
36	1	3030	G
36	1	3049	A
36	1	3056	U
36	1	3057	U
36	1	3058	U
36	1	3059	G
36	1	3065	G
36	1	3066	U
36	1	3078	U
36	1	3079	U
36	1	3080	G
36	1	3086	A
36	1	3090	U
36	1	3092	C
36	1	3093	C
36	1	3104	U
36	1	3116	G
36	1	3122	A
36	1	3129	A
36	1	3131	U

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Mol	Chain	Res	Type
36	1	3142	A
36	1	3143	C
36	1	3151	U
36	1	3153	U
36	1	3154	C
36	1	3155	U
36	1	3156	U
36	1	3157	U
36	1	3158	G
36	1	3164	C
36	1	3165	A
36	1	3168	A
36	1	3170	A
36	1	3171	U
36	1	3172	A
36	1	3173	G
36	1	3174	A
36	1	3176	G
36	1	3179	U
36	1	3181	C
36	1	3187	A
36	1	3195	U
36	1	3196	U
36	1	3197	G
36	1	3206	C
36	1	3207	U
36	1	3209	A
36	1	3217	C
36	1	3218	A
36	1	3219	G
36	1	3229	G
36	1	3235	C
36	1	3239	G
36	1	3243	A
36	1	3244	A
36	1	3245	A
36	1	3246	G
36	1	3247	G
36	1	3258	U
36	1	3259	U
36	1	3263	G
36	1	3268	A

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Mol	Chain	Res	Type
36	1	3269	U
36	1	3270	U
36	1	3272	C
36	1	3273	A
36	1	3276	G
36	1	3277	U
36	1	3279	A
36	1	3281	U
36	1	3286	G
36	1	3287	U
36	1	3289	G
36	1	3294	A
36	1	3295	A
36	1	3304	U
36	1	3307	A
36	1	3313	U
36	1	3316	A
36	1	3317	U
36	1	3318	G
36	1	3319	U
36	1	3328	G
36	1	3334	U
36	1	3341	U
36	1	3342	A
36	1	3345	G
36	1	3347	A
36	1	3349	C
36	1	3350	C
36	1	3351	U
36	1	3352	U
36	1	3353	G
36	1	3354	U
36	1	3355	U
36	1	3356	G
36	1	3359	A
36	1	3360	C
36	1	3368	U
36	1	3369	G
36	1	3375	A
36	1	3376	A
36	1	3378	C
36	1	3382	U

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Mol	Chain	Res	Type
36	1	3389	U
36	1	3390	G
36	1	3396	U
37	3	7	G
37	3	13	A
37	3	14	U
37	3	22	A
37	3	41	G
37	3	51	A
37	3	53	U
37	3	65	G
37	3	74	C
37	3	76	A
37	3	82	G
37	3	102	A
37	3	104	A
37	3	112	G
37	3	114	U
37	3	121	U
38	4	23	U
38	4	26	U
38	4	34	U
38	4	35	C
38	4	42	G
38	4	50	C
38	4	51	G
38	4	56	G
38	4	57	C
38	4	59	A
38	4	62	C
38	4	63	G
38	4	69	U
38	4	71	A
38	4	79	A
38	4	80	A
38	4	81	U
38	4	82	U
38	4	83	C
38	4	84	C
38	4	85	G
38	4	86	U
38	4	87	G

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Mol	Chain	Res	Type
38	4	90	U
38	4	93	U
38	4	95	G
38	4	100	U
38	4	102	U
38	4	104	A
38	4	105	A
38	4	106	C
38	4	107	G
38	4	111	A
38	4	112	U
38	4	113	U
38	4	125	U
38	4	126	A
38	4	127	U
38	4	128	U
38	4	138	A
38	4	146	U
38	4	148	G
38	4	152	G
38	4	155	A
38	4	157	U
38	4	158	U
80	6	4	C
80	6	8	U
80	6	25	C
80	6	26	A
80	6	27	U
80	6	34	G
80	6	45	U
80	6	46	A
80	6	47	A
80	6	54	C
80	6	57	G
80	6	60	U
80	6	63	G
80	6	66	U
80	6	67	A
80	6	68	A
80	6	69	G
80	6	72	A
80	6	75	U

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Mol	Chain	Res	Type
80	6	76	A
80	6	77	U
80	6	103	A
80	6	104	A
80	6	114	C
80	6	115	G
80	6	116	U
80	6	137	U
80	6	138	A
80	6	140	A
80	6	141	U
80	6	144	U
80	6	145	A
80	6	146	U
80	6	153	G
80	6	158	U
80	6	159	U
80	6	166	C
80	6	178	U
80	6	185	U
80	6	188	A
80	6	190	C
80	6	191	C
80	6	192	U
80	6	193	U
80	6	194	U
80	6	195	G
80	6	199	G
80	6	200	A
80	6	215	A
80	6	216	U
80	6	217	A
80	6	218	A
80	6	219	A
80	6	220	A
80	6	222	A
80	6	224	C
80	6	226	A
80	6	227	U
80	6	228	G
80	6	230	C
80	6	231	U

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Mol	Chain	Res	Type
80	6	232	U
80	6	233	C
80	6	235	G
80	6	240	U
80	6	241	U
80	6	249	U
80	6	250	C
80	6	260	U
80	6	261	U
80	6	265	A
80	6	271	A
80	6	272	U
80	6	273	G
80	6	274	G
80	6	277	U
80	6	278	U
80	6	280	U
80	6	290	G
80	6	297	U
80	6	299	A
80	6	302	U
80	6	304	U
80	6	309	C
80	6	314	C
80	6	316	A
80	6	320	U
80	6	321	C
80	6	322	G
80	6	324	U
80	6	333	A
80	6	337	G
80	6	338	C
80	6	341	A
80	6	352	A
80	6	359	A
80	6	360	A
80	6	361	C
80	6	369	A
80	6	370	A
80	6	384	G
80	6	400	A
80	6	401	A

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Mol	Chain	Res	Type
80	6	402	C
80	6	404	G
80	6	409	C
80	6	416	A
80	6	418	G
80	6	424	C
80	6	425	A
80	6	426	G
80	6	428	A
80	6	434	G
80	6	439	U
80	6	444	C
80	6	445	A
80	6	446	A
80	6	448	C
80	6	454	U
80	6	460	A
80	6	468	A
80	6	472	U
80	6	475	A
80	6	477	A
80	6	484	C
80	6	485	A
80	6	486	G
80	6	487	G
80	6	488	G
80	6	489	C
80	6	490	C
80	6	492	A
80	6	493	U
80	6	494	U
80	6	496	G
80	6	497	G
80	6	500	C
80	6	501	U
80	6	504	U
80	6	505	A
80	6	506	A
80	6	508	U
80	6	510	G
80	6	511	A
80	6	512	A

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Mol	Chain	Res	Type
80	6	513	U
80	6	515	A
80	6	518	A
80	6	519	C
80	6	527	A
80	6	536	C
80	6	539	G
80	6	540	G
80	6	541	A
80	6	542	A
80	6	543	C
80	6	544	A
80	6	548	G
80	6	555	A
80	6	556	A
80	6	557	G
80	6	558	U
80	6	559	C
80	6	564	G
80	6	565	C
80	6	574	G
80	6	578	U
80	6	579	A
80	6	580	A
80	6	582	U
80	6	583	C
80	6	594	A
80	6	595	G
80	6	596	C
80	6	606	A
80	6	607	G
80	6	610	G
80	6	611	U
80	6	619	A
80	6	620	A
80	6	622	A
80	6	623	A
80	6	630	A
80	6	637	C
80	6	639	U
80	6	641	G
80	6	644	C

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Mol	Chain	Res	Type
80	6	652	G
80	6	653	C
80	6	654	C
80	6	661	A
80	6	662	U
80	6	665	U
80	6	667	U
80	6	670	U
80	6	676	G
80	6	678	A
80	6	679	U
80	6	680	U
80	6	681	U
80	6	682	C
80	6	683	C
80	6	684	A
80	6	685	A
80	6	691	C
80	6	696	C
80	6	697	C
80	6	698	U
80	6	709	C
80	6	710	U
80	6	711	U
80	6	714	G
80	6	718	U
80	6	719	U
80	6	720	G
80	6	721	U
80	6	722	G
80	6	730	G
80	6	743	U
80	6	744	U
80	6	751	G
80	6	754	A
80	6	755	A
80	6	756	A
80	6	765	G
80	6	774	A
80	6	775	G
80	6	780	A
80	6	781	U

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Mol	Chain	Res	Type
80	6	782	U
80	6	783	G
80	6	787	G
80	6	789	A
80	6	793	A
80	6	794	U
80	6	796	A
80	6	801	G
80	6	806	A
80	6	811	A
80	6	812	A
80	6	814	A
80	6	815	G
80	6	823	G
80	6	824	G
80	6	825	U
80	6	826	U
80	6	829	A
80	6	830	U
80	6	831	U
80	6	832	U
80	6	834	G
80	6	835	U
80	6	856	A
80	6	861	U
80	6	862	A
80	6	863	A
80	6	876	G
80	6	886	U
80	6	898	A
80	6	904	G
80	6	906	A
80	6	913	G
80	6	914	G
80	6	926	A
80	6	928	U
80	6	933	A
80	6	935	U
80	6	942	G
80	6	944	A
80	6	949	C
80	6	959	U

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Mol	Chain	Res	Type
80	6	960	U
80	6	966	A
80	6	969	C
80	6	971	A
80	6	977	A
80	6	987	G
80	6	988	A
80	6	992	A
80	6	995	A
80	6	996	U
80	6	998	A
80	6	1003	A
80	6	1004	U
80	6	1005	A
80	6	1021	C
80	6	1026	A
80	6	1028	C
80	6	1029	U
80	6	1039	A
80	6	1040	G
80	6	1052	U
80	6	1053	G
80	6	1057	U
80	6	1058	U
80	6	1059	U
80	6	1060	U
80	6	1061	A
80	6	1076	A
80	6	1082	C
80	6	1092	A
80	6	1096	C
80	6	1097	U
80	6	1098	U
80	6	1099	U
80	6	1100	G
80	6	1101	G
80	6	1109	G
80	6	1111	G
80	6	1124	A
80	6	1127	G
80	6	1137	A
80	6	1138	A

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Mol	Chain	Res	Type
80	6	1150	G
80	6	1151	A
80	6	1154	G
80	6	1155	G
80	6	1158	C
80	6	1159	C
80	6	1160	A
80	6	1161	C
80	6	1167	G
80	6	1185	U
80	6	1191	U
80	6	1194	A
80	6	1196	A
80	6	1197	C
80	6	1199	G
80	6	1200	G
80	6	1202	A
80	6	1208	A
80	6	1217	A
80	6	1218	G
80	6	1226	A
80	6	1227	A
80	6	1228	G
80	6	1229	G
80	6	1230	A
80	6	1231	U
80	6	1239	U
80	6	1240	U
80	6	1241	G
80	6	1242	A
80	6	1243	G
80	6	1244	A
80	6	1245	G
80	6	1252	C
80	6	1254	U
80	6	1255	G
80	6	1256	A
80	6	1257	U
80	6	1258	U
80	6	1286	U
80	6	1291	G
80	6	1314	U

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Mol	Chain	Res	Type
80	6	1315	U
80	6	1316	G
80	6	1321	A
80	6	1335	U
80	6	1343	U
80	6	1345	A
80	6	1346	A
80	6	1353	U
80	6	1354	G
80	6	1361	U
80	6	1362	U
80	6	1363	U
80	6	1364	G
80	6	1367	G
80	6	1370	U
80	6	1371	A
80	6	1388	A
80	6	1390	U
80	6	1398	U
80	6	1399	C
80	6	1400	A
80	6	1401	A
80	6	1402	G
80	6	1412	G
80	6	1413	U
80	6	1415	U
80	6	1427	A
80	6	1428	G
80	6	1445	G
80	6	1446	A
80	6	1448	G
80	6	1458	G
80	6	1459	C
80	6	1460	A
80	6	1461	C
80	6	1471	A
80	6	1482	C
80	6	1486	G
80	6	1490	C
80	6	1491	U
80	6	1492	A
80	6	1493	A

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Mol	Chain	Res	Type
80	6	1494	C
80	6	1506	G
80	6	1514	U
80	6	1515	A
80	6	1516	A
80	6	1521	G
80	6	1523	G
80	6	1524	A
80	6	1535	U
80	6	1536	G
80	6	1537	C
80	6	1538	U
80	6	1540	G
80	6	1554	U
80	6	1557	U
80	6	1559	A
80	6	1569	A
80	6	1573	A
80	6	1574	G
80	6	1584	G
80	6	1590	G
80	6	1601	G
80	6	1621	U
80	6	1626	U
80	6	1634	C
80	6	1636	C
80	6	1637	C
80	6	1638	G
80	6	1639	C
80	6	1650	U
80	6	1651	A
80	6	1657	U
80	6	1658	G
80	6	1683	C
80	6	1697	G
80	6	1698	G
80	6	1699	G
80	6	1700	C
80	6	1701	A
80	6	1702	A
80	6	1703	C
80	6	1704	U

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Mol	Chain	Res	Type
80	6	1712	A
80	6	1713	G
80	6	1716	C
80	6	1717	G
80	6	1730	A
80	6	1731	A
80	6	1736	G
80	6	1755	A
80	6	1760	G
80	6	1762	A
80	6	1766	A
80	6	1767	G
80	6	1769	U
80	6	1780	G
80	6	1782	A
80	6	1783	C
80	6	1792	G
80	6	1794	A
80	6	1795	U
80	6	1796	C
80	6	1799	U
80	6	1800	A
85	5	15	C
85	5	17	G
85	5	26	A
85	5	30	G
85	5	31	C
85	5	40	A
85	5	43	A
85	5	49	A
85	5	57	A
85	5	59	G
85	5	60	A
85	5	63	A
85	5	65	A
85	5	66	A
85	5	68	C
85	5	73	C
85	5	76	G
85	5	84	U
85	5	89	A
85	5	92	G

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Mol	Chain	Res	Type
85	5	93	C
85	5	96	G
85	5	105	C
85	5	109	A
85	5	110	G
85	5	113	C
85	5	116	A
85	5	117	U
85	5	121	A
85	5	122	A
85	5	133	U
85	5	134	U
85	5	135	C
85	5	136	G
85	5	152	U
85	5	155	G
85	5	156	G
85	5	157	A
85	5	165	A
85	5	169	U
85	5	170	G
85	5	171	G
85	5	172	G
85	5	173	G
85	5	174	C
85	5	178	U
85	5	182	U
85	5	183	G
85	5	187	A
85	5	190	U
85	5	191	U
85	5	192	C
85	5	200	C
85	5	203	G
85	5	210	U
85	5	211	A
85	5	213	A
85	5	218	G
85	5	219	A
85	5	221	A
85	5	231	G
85	5	234	G

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Mol	Chain	Res	Type
85	5	235	A
85	5	237	G
85	5	239	G
85	5	240	U
85	5	244	G
85	5	246	U
85	5	248	U
85	5	249	U
85	5	250	U
85	5	251	G
85	5	252	U
85	5	253	A
85	5	254	A
85	5	263	C
85	5	269	G
85	5	282	G
85	5	283	G
85	5	284	A
85	5	285	A
85	5	286	U
85	5	295	A
85	5	297	G
85	5	298	U
85	5	315	C
85	5	316	U
85	5	323	A
85	5	329	U
85	5	334	A
85	5	339	C
85	5	349	A
85	5	350	C
85	5	351	A
85	5	352	A
85	5	354	U
85	5	366	A
85	5	370	U
85	5	372	A
85	5	375	A
85	5	376	G
85	5	382	U
85	5	388	G
85	5	395	A

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Mol	Chain	Res	Type
85	5	398	A
85	5	399	A
85	5	401	U
85	5	402	A
85	5	403	C
85	5	417	A
85	5	421	G
85	5	422	A
85	5	429	U
85	5	436	A
85	5	437	G
85	5	438	A
85	5	439	C
85	5	440	A
85	5	441	U
85	5	442	G
85	5	492	U
85	5	495	G
85	5	503	C
85	5	520	U
85	5	521	A
85	5	531	G
85	5	535	G
85	5	538	G
85	5	542	G
85	5	546	C
85	5	547	G
85	5	548	G
85	5	557	A
85	5	559	A
85	5	578	A
85	5	579	G
85	5	581	U
85	5	592	A
85	5	594	U
85	5	602	A
85	5	604	G
85	5	609	G
85	5	610	G
85	5	611	A
85	5	619	A
85	5	620	U

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Mol	Chain	Res	Type
85	5	636	C
85	5	637	C
85	5	649	A
85	5	651	G
85	5	660	A
85	5	662	U
85	5	677	A
85	5	681	U
85	5	691	A
85	5	692	A
85	5	705	A
85	5	709	A
85	5	712	G
85	5	715	A
85	5	716	A
85	5	719	U
85	5	726	G
85	5	727	G
85	5	758	C
85	5	762	U
85	5	765	C
85	5	766	U
85	5	767	U
85	5	768	C
85	5	776	U
85	5	777	U
85	5	780	A
85	5	781	G
85	5	785	G
85	5	786	A
85	5	806	A
85	5	816	A
85	5	817	A
85	5	821	U
85	5	826	G
85	5	830	A
85	5	837	A
85	5	861	C
85	5	867	G
85	5	874	U
85	5	875	G
85	5	879	U

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Mol	Chain	Res	Type
85	5	881	C
85	5	882	A
85	5	883	A
85	5	890	C
85	5	896	A
85	5	907	G
85	5	908	G
85	5	910	G
85	5	914	A
85	5	916	G
85	5	917	A
85	5	921	A
85	5	922	U
85	5	923	C
85	5	924	G
85	5	937	G
85	5	943	U
85	5	944	C
85	5	948	C
85	5	953	G
85	5	959	C
85	5	960	U
85	5	963	G
85	5	974	G
85	5	979	U
85	5	984	G
85	5	993	G
85	5	994	G
85	5	1001	G
85	5	1002	A
85	5	1006	A
85	5	1010	G
85	5	1015	U
85	5	1016	C
85	5	1017	C
85	5	1018	G
85	5	1021	G
85	5	1024	G
85	5	1025	A
85	5	1026	A
85	5	1027	A
85	5	1028	U

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Mol	Chain	Res	Type
85	5	1029	G
85	5	1032	C
85	5	1033	U
85	5	1034	U
85	5	1035	G
85	5	1036	A
85	5	1047	A
85	5	1048	A
85	5	1049	C
85	5	1064	A
85	5	1065	A
85	5	1072	G
85	5	1081	U
85	5	1082	U
85	5	1085	A
85	5	1087	G
85	5	1088	U
85	5	1093	A
85	5	1094	U
85	5	1095	U
85	5	1096	U
85	5	1098	A
85	5	1103	A
85	5	1104	G
85	5	1117	G
85	5	1129	A
85	5	1131	G
85	5	1143	A
85	5	1144	U
85	5	1152	G
85	5	1153	A
85	5	1159	A
85	5	1160	C
85	5	1161	G
85	5	1179	A
85	5	1180	A
85	5	1181	U
85	5	1182	A
85	5	1190	A
85	5	1191	U
85	5	1192	C
85	5	1201	C

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Mol	Chain	Res	Type
85	5	1209	G
85	5	1212	A
85	5	1221	A
85	5	1222	G
85	5	1223	A
85	5	1232	C
85	5	1235	U
85	5	1236	G
85	5	1237	G
85	5	1239	C
85	5	1241	U
85	5	1242	G
85	5	1243	G
85	5	1245	A
85	5	1246	G
85	5	1251	A
85	5	1252	A
85	5	1253	U
85	5	1258	U
85	5	1262	G
85	5	1263	A
85	5	1264	G
85	5	1265	U
85	5	1266	G
85	5	1284	C
85	5	1285	G
85	5	1304	A
85	5	1305	U
85	5	1308	A
85	5	1309	U
85	5	1313	G
85	5	1314	C
85	5	1324	U
85	5	1330	A
85	5	1331	U
85	5	1332	A
85	5	1337	A
85	5	1342	C
85	5	1348	U
85	5	1349	G
85	5	1351	U
85	5	1352	A

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Mol	Chain	Res	Type
85	5	1353	U
85	5	1355	A
85	5	1356	U
85	5	1357	G
85	5	1370	G
85	5	1385	C
85	5	1386	A
85	5	1399	A
85	5	1400	G
85	5	1407	A
85	5	1408	G
85	5	1416	C
85	5	1419	A
85	5	1431	G
85	5	1432	C
85	5	1433	A
85	5	1434	G
85	5	1437	C
85	5	1446	A
85	5	1450	G
85	5	1465	A
85	5	1471	U
85	5	1472	U
85	5	1481	A
85	5	1482	A
85	5	1484	U
85	5	1490	A
85	5	1495	U
85	5	1508	C
85	5	1511	U
85	5	1515	A
85	5	1525	G
85	5	1527	C
85	5	1536	G
85	5	1547	G
85	5	1554	U
85	5	1555	U
85	5	1556	C
85	5	1560	G
85	5	1561	G
85	5	1562	C
85	5	1566	A

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Mol	Chain	Res	Type
85	5	1567	U
85	5	1569	U
85	5	1570	U
85	5	1571	A
85	5	1572	U
85	5	1574	C
85	5	1575	A
85	5	1576	G
85	5	1577	G
85	5	1578	C
85	5	1579	C
85	5	1581	C
85	5	1582	C
85	5	1583	A
85	5	1587	A
85	5	1589	A
85	5	1593	A
85	5	1603	A
85	5	1607	U
85	5	1608	C
85	5	1620	U
85	5	1629	U
85	5	1639	C
85	5	1641	U
85	5	1642	A
85	5	1643	A
85	5	1644	C
85	5	1645	U
85	5	1655	G
85	5	1658	G
85	5	1673	G
85	5	1677	G
85	5	1683	A
85	5	1684	U
85	5	1687	U
85	5	1694	U
85	5	1704	A
85	5	1716	U
85	5	1717	U
85	5	1724	U
85	5	1735	G
85	5	1750	A

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Mol	Chain	Res	Type
85	5	1751	G
85	5	1760	A
85	5	1762	C
85	5	1764	U
85	5	1765	U
85	5	1766	G
85	5	1770	G
85	5	1778	G
85	5	1780	G
85	5	1793	C
85	5	1797	A
85	5	1810	A
85	5	1813	A
85	5	1814	A
85	5	1815	U
85	5	1816	A
85	5	1817	G
85	5	1818	U
85	5	1821	U
85	5	1829	G
85	5	1839	A
85	5	1841	A
85	5	1842	A
85	5	1846	C
85	5	1849	C
85	5	1850	A
85	5	1851	G
85	5	1863	G
85	5	1866	C
85	5	1878	G
85	5	1879	A
85	5	1880	U
85	5	1881	A
85	5	1886	A
85	5	1888	U
85	5	1890	U
85	5	1895	A
85	5	1906	G
85	5	1908	A
85	5	1923	C
85	5	1935	G
85	5	1953	G

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Mol	Chain	Res	Type
85	5	2100	A
85	5	2101	C
85	5	2102	U
85	5	2112	U
85	5	2113	A
85	5	2121	G
85	5	2122	G
85	5	2129	U
85	5	2131	A
85	5	2134	G
85	5	2140	U
85	5	2144	A
85	5	2149	A
85	5	2158	A
85	5	2169	G
85	5	2170	U
85	5	2176	U
85	5	2178	A
85	5	2187	G
85	5	2188	A
85	5	2192	C
85	5	2198	A
85	5	2204	C
85	5	2205	U
85	5	2206	G
85	5	2208	A
85	5	2210	G
85	5	2213	A
85	5	2225	U
85	5	2229	A
85	5	2244	A
85	5	2249	G
85	5	2250	G
85	5	2253	G
85	5	2255	A
85	5	2256	A
85	5	2257	C
85	5	2258	U
85	5	2270	A
85	5	2273	G
85	5	2276	G
85	5	2279	A

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Mol	Chain	Res	Type
85	5	2281	A
85	5	2286	U
85	5	2288	G
85	5	2298	U
85	5	2304	C
85	5	2307	G
85	5	2308	C
85	5	2310	U
85	5	2313	A
85	5	2315	G
85	5	2334	U
85	5	2335	G
85	5	2336	U
85	5	2356	A
85	5	2357	A
85	5	2370	G
85	5	2373	A
85	5	2374	C
85	5	2375	G
85	5	2383	C
85	5	2385	G
85	5	2392	C
85	5	2393	G
85	5	2396	G
85	5	2397	A
85	5	2401	A
85	5	2402	A
85	5	2403	G
85	5	2404	A
85	5	2406	C
85	5	2411	U
85	5	2413	A
85	5	2414	G
85	5	2418	G
85	5	2419	A
85	5	2425	G
85	5	2436	U
85	5	2438	A
85	5	2439	A
85	5	2441	A
85	5	2443	A
85	5	2444	C

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Mol	Chain	Res	Type
85	5	2505	U
85	5	2508	U
85	5	2510	U
85	5	2511	A
85	5	2512	C
85	5	2514	U
85	5	2515	A
85	5	2520	A
85	5	2523	A
85	5	2524	A
85	5	2525	G
85	5	2526	C
85	5	2529	A
85	5	2531	C
85	5	2535	A
85	5	2538	U
85	5	2539	C
85	5	2540	A
85	5	2543	U
85	5	2549	G
85	5	2552	C
85	5	2555	G
85	5	2559	U
85	5	2560	C
85	5	2566	C
85	5	2567	C
85	5	2568	C
85	5	2569	A
85	5	2570	U
85	5	2571	U
85	5	2572	C
85	5	2573	G
85	5	2574	G
85	5	2580	A
85	5	2584	G
85	5	2585	G
85	5	2589	G
85	5	2593	A
85	5	2594	C
85	5	2599	U
85	5	2600	C
85	5	2606	G

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Mol	Chain	Res	Type
85	5	2607	G
85	5	2614	G
85	5	2615	G
85	5	2619	G
85	5	2622	C
85	5	2626	A
85	5	2629	U
85	5	2637	A
85	5	2647	A
85	5	2652	U
85	5	2656	A
85	5	2662	G
85	5	2663	G
85	5	2674	A
85	5	2676	A
85	5	2677	G
85	5	2683	U
85	5	2689	A
85	5	2691	A
85	5	2694	A
85	5	2696	A
85	5	2703	A
85	5	2705	A
85	5	2714	G
85	5	2727	A
85	5	2728	G
85	5	2729	U
85	5	2734	A
85	5	2752	U
85	5	2753	G
85	5	2755	C
85	5	2762	A
85	5	2771	U
85	5	2772	C
85	5	2773	C
85	5	2777	G
85	5	2778	G
85	5	2779	A
85	5	2783	U
85	5	2795	U
85	5	2796	G
85	5	2797	C

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Mol	Chain	Res	Type
85	5	2799	A
85	5	2800	G
85	5	2801	A
85	5	2802	A
85	5	2804	A
85	5	2810	C
85	5	2814	G
85	5	2817	A
85	5	2818	U
85	5	2821	C
85	5	2838	A
85	5	2839	G
85	5	2844	C
85	5	2845	A
85	5	2846	U
85	5	2847	A
85	5	2848	G
85	5	2849	C
85	5	2851	A
85	5	2852	C
85	5	2853	A
85	5	2855	U
85	5	2860	U
85	5	2869	U
85	5	2871	G
85	5	2872	A
85	5	2873	U
85	5	2875	U
85	5	2876	C
85	5	2880	U
85	5	2887	A
85	5	2898	G
85	5	2899	C
85	5	2904	U
85	5	2914	G
85	5	2915	U
85	5	2922	G
85	5	2923	U
85	5	2935	U
85	5	2936	A
85	5	2942	C
85	5	2945	G

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Mol	Chain	Res	Type
85	5	2956	A
85	5	2957	G
85	5	2971	A
85	5	2972	G
85	5	2979	U
85	5	2983	C
85	5	2989	U
85	5	2992	U
85	5	2996	U
85	5	2997	G
85	5	3012	A
85	5	3018	C
85	5	3028	G
85	5	3049	A
85	5	3056	U
85	5	3059	G
85	5	3069	G
85	5	3074	G
85	5	3078	U
85	5	3079	U
85	5	3086	A
85	5	3092	C
85	5	3093	C
85	5	3098	G
85	5	3122	A
85	5	3130	A
85	5	3131	U
85	5	3142	A
85	5	3143	C
85	5	3144	G
85	5	3145	C
85	5	3150	A
85	5	3153	U
85	5	3155	U
85	5	3156	U
85	5	3157	U
85	5	3158	G
85	5	3164	C
85	5	3165	A
85	5	3168	A
85	5	3170	A
85	5	3172	A

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Mol	Chain	Res	Type
85	5	3173	G
85	5	3174	A
85	5	3176	G
85	5	3179	U
85	5	3181	C
85	5	3187	A
85	5	3195	U
85	5	3196	U
85	5	3198	U
85	5	3207	U
85	5	3213	A
85	5	3215	A
85	5	3217	C
85	5	3218	A
85	5	3219	G
85	5	3223	A
85	5	3224	G
85	5	3227	A
85	5	3229	G
85	5	3239	G
85	5	3242	G
85	5	3243	A
85	5	3245	A
85	5	3246	G
85	5	3247	G
85	5	3253	G
85	5	3259	U
85	5	3261	C
85	5	3270	U
85	5	3272	C
85	5	3273	A
85	5	3275	U
85	5	3276	G
85	5	3277	U
85	5	3279	A
85	5	3280	U
85	5	3281	U
85	5	3282	U
85	5	3285	C
85	5	3286	G
85	5	3288	G
85	5	3289	G

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Mol	Chain	Res	Type
85	5	3290	G
85	5	3294	A
85	5	3295	A
85	5	3304	U
85	5	3305	A
85	5	3306	U
85	5	3309	G
85	5	3311	C
85	5	3313	U
85	5	3317	U
85	5	3318	G
85	5	3319	U
85	5	3341	U
85	5	3342	A
85	5	3345	G
85	5	3350	C
85	5	3351	U
85	5	3352	U
85	5	3354	U
85	5	3355	U
85	5	3356	G
85	5	3358	U
85	5	3362	A
85	5	3363	U
85	5	3367	C
85	5	3368	U
85	5	3369	G
85	5	3378	C
85	5	3383	G
85	5	3389	U
85	5	3390	G
85	5	3393	U
85	5	3396	U
37	7	7	G
37	7	11	A
37	7	22	A
37	7	27	A
37	7	33	U
37	7	51	A
37	7	54	U
37	7	55	A
37	7	58	C

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Mol	Chain	Res	Type
37	7	60	G
37	7	65	G
37	7	73	C
37	7	74	C
37	7	75	G
37	7	76	A
37	7	84	A
37	7	93	C
37	7	99	G
37	7	102	A
37	7	103	A
37	7	112	G
38	8	20	U
38	8	21	C
38	8	23	U
38	8	34	U
38	8	35	C
38	8	48	A
38	8	50	C
38	8	51	G
38	8	52	A
38	8	54	A
38	8	59	A
38	8	60	U
38	8	62	C
38	8	63	G
38	8	79	A
38	8	80	A
38	8	81	U
38	8	82	U
38	8	83	C
38	8	84	C
38	8	86	U
38	8	87	G
38	8	88	A
38	8	90	U
38	8	95	G
38	8	97	A
38	8	104	A
38	8	106	C
38	8	111	A
38	8	113	U

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Mol	Chain	Res	Type
38	8	122	U
38	8	125	U
38	8	126	A
38	8	127	U
38	8	146	U
38	8	152	G
38	8	156	U
38	8	157	U
38	8	158	U

All (268) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	2	25	C
1	2	45	U
1	2	68	A
1	2	130	C
1	2	131	C
1	2	136	C
1	2	139	C
1	2	158	U
1	2	187	G
1	2	218	A
1	2	240	U
1	2	278	U
1	2	280	U
1	2	417	A
1	2	497	G
1	2	499	U
1	2	501	U
1	2	503	G
1	2	512	A
1	2	555	A
1	2	558	U
1	2	668	A
1	2	687	C
1	2	703	G
1	2	704	U
1	2	717	A
1	2	738	A
1	2	764	U
1	2	812	A

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Mol	Chain	Res	Type
1	2	896	G
1	2	1041	U
1	2	1064	A
1	2	1140	A
1	2	1179	A
1	2	1190	C
1	2	1227	A
1	2	1233	U
1	2	1327	A
1	2	1353	U
1	2	1464	C
1	2	1551	C
1	2	1556	A
1	2	1583	A
1	2	1598	C
1	2	1640	U
1	2	1744	U
1	2	1794	G
36	1	13	A
36	1	65	A
36	1	93	C
36	1	109	A
36	1	239	G
36	1	282	G
36	1	374	A
36	1	547	G
36	1	637	C
36	1	715	A
36	1	719	U
36	1	763	G
36	1	873	C
36	1	916	G
36	1	939	U
36	1	979	U
36	1	981	U
36	1	993	G
36	1	1064	A
36	1	1094	U
36	1	1097	G
36	1	1103	A
36	1	1196	C
36	1	1273	A

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Mol	Chain	Res	Type
36	1	1307	G
36	1	1323	G
36	1	1329	U
36	1	1352	A
36	1	1355	A
36	1	1484	U
36	1	1562	C
36	1	1568	U
36	1	1582	C
36	1	1641	U
36	1	1716	U
36	1	1751	G
36	1	1815	U
36	1	1820	U
36	1	1842	A
36	1	2101	C
36	1	2112	U
36	1	2116	G
36	1	2209	U
36	1	2227	C
36	1	2249	G
36	1	2372	A
36	1	2373	A
36	1	2418	G
36	1	2434	U
36	1	2537	U
36	1	2541	U
36	1	2580	A
36	1	2585	G
36	1	2593	A
36	1	2685	C
36	1	2772	C
36	1	2801	A
36	1	2802	A
36	1	2818	U
36	1	3078	U
36	1	3121	U
36	1	3157	U
36	1	3195	U
36	1	3218	A
36	1	3228	C
36	1	3259	U

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Mol	Chain	Res	Type
36	1	3269	U
36	1	3317	U
36	1	3350	C
36	1	3351	U
36	1	3353	G
36	1	3375	A
37	3	13	A
37	3	49	G
37	3	52	G
38	4	80	A
38	4	85	G
38	4	126	A
80	6	25	C
80	6	66	U
80	6	75	U
80	6	76	A
80	6	103	A
80	6	114	C
80	6	136	C
80	6	139	C
80	6	145	A
80	6	158	U
80	6	187	G
80	6	217	A
80	6	240	U
80	6	259	U
80	6	272	U
80	6	400	A
80	6	417	A
80	6	423	G
80	6	512	A
80	6	542	A
80	6	555	A
80	6	558	U
80	6	606	A
80	6	651	G
80	6	678	A
80	6	697	C
80	6	717	C
80	6	755	A
80	6	829	A
80	6	834	G

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Mol	Chain	Res	Type
80	6	1051	G
80	6	1058	U
80	6	1070	C
80	6	1081	A
80	6	1097	U
80	6	1098	U
80	6	1196	A
80	6	1227	A
80	6	1244	A
80	6	1255	G
80	6	1344	A
80	6	1481	C
80	6	1490	C
80	6	1491	U
80	6	1535	U
80	6	1568	C
80	6	1573	A
80	6	1600	A
80	6	1620	C
80	6	1636	C
80	6	1657	U
80	6	1696	G
80	6	1698	G
80	6	1700	C
85	5	65	A
85	5	135	C
85	5	151	A
85	5	238	A
85	5	282	G
85	5	437	G
85	5	610	G
85	5	715	A
85	5	765	C
85	5	786	A
85	5	873	C
85	5	896	A
85	5	916	G
85	5	993	G
85	5	1000	C
85	5	1027	A
85	5	1064	A
85	5	1081	U

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Mol	Chain	Res	Type
85	5	1152	G
85	5	1160	C
85	5	1196	C
85	5	1222	G
85	5	1235	U
85	5	1238	C
85	5	1241	U
85	5	1284	C
85	5	1307	G
85	5	1329	U
85	5	1331	U
85	5	1350	A
85	5	1352	A
85	5	1355	A
85	5	1481	A
85	5	1514	G
85	5	1554	U
85	5	1560	G
85	5	1574	C
85	5	1580	A
85	5	1607	U
85	5	1716	U
85	5	1815	U
85	5	1816	A
85	5	1841	A
85	5	1878	G
85	5	2101	C
85	5	2112	U
85	5	2116	G
85	5	2204	C
85	5	2209	U
85	5	2249	G
85	5	2255	A
85	5	2257	C
85	5	2281	A
85	5	2373	A
85	5	2401	A
85	5	2404	A
85	5	2440	G
85	5	2507	C
85	5	2513	U
85	5	2539	C

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Mol	Chain	Res	Type
85	5	2662	G
85	5	2682	C
85	5	2728	G
85	5	2772	C
85	5	2801	A
85	5	2803	A
85	5	2818	U
85	5	2875	U
85	5	2956	A
85	5	2971	A
85	5	3055	U
85	5	3078	U
85	5	3121	U
85	5	3154	C
85	5	3167	A
85	5	3195	U
85	5	3218	A
85	5	3228	C
85	5	3269	U
85	5	3275	U
85	5	3289	G
85	5	3317	U
85	5	3340	G
85	5	3341	U
85	5	3357	U
37	7	49	G
37	7	111	U
38	8	80	A
38	8	126	A

## 5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

## 5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

## 5.6 Ligand geometry [i](#)

Of 2310 ligands modelled in this entry, 1207 are monoatomic - leaving 1103 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with  $|Z| > 2$  is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# $ Z  > 2$	Counts	RMSZ	# $ Z  > 2$
95	PHE	1	3401	-	9,11,12	1.33	2 (22%)	11,13,15	0.78	0
96	LEU	1	3402	-	5,7,8	0.42	0	6,8,10	0.85	0
97	SPS	1	3403	93	19,23,23	3.41	9 (47%)	16,30,30	4.98	11 (68%)
92	OHX	1	3404	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3405	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3406	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3407	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3408	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3409	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3410	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3411	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3412	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3413	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3414	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3415	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3416	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3417	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3418	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3419	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3420	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3421	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3422	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3423	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3424	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3425	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3426	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3427	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3428	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3429	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3430	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3431	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3432	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3433	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3434	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3435	-	0,6,6	0.00	-	0,15,15	0.00	-



Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
92	OHX	1	3436	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3437	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3438	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3439	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3440	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3441	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3442	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3443	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3444	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3445	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3446	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3447	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3448	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3449	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3450	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3451	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3452	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3453	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3454	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3455	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3456	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3457	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3458	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3459	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3460	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3461	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3462	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3463	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3464	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3465	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3466	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3467	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3468	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3469	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3470	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3471	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3472	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3473	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3474	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3475	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3476	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3477	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3478	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
92	OHX	1	3479	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3480	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3481	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3482	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3483	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3484	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3485	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3486	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3487	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3488	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3489	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3490	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3491	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3492	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3493	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3494	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3495	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3496	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3497	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3498	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3499	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3500	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3501	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3502	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3503	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3504	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3505	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3506	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3507	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3508	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3509	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3510	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3511	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3512	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3513	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3514	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3515	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3516	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3517	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3518	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3519	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3520	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3521	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
92	OHX	1	3522	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3523	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3524	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3525	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3526	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3527	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3528	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3529	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3530	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3531	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3532	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3533	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3534	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3535	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3536	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3537	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3538	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3539	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3540	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3541	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3542	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3543	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3544	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3545	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3546	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3547	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3548	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3549	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3550	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3551	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3552	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3553	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3554	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3555	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3556	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3557	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3558	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3559	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3560	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3561	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3562	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3563	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3564	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
92	OHX	1	3565	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3566	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3567	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3568	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3569	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3570	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3571	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3572	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3573	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3574	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3575	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3576	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3577	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3578	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3579	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3580	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3581	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3582	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3583	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3584	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3585	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3586	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3587	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3588	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3589	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3590	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3591	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3592	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3593	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3594	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3595	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3596	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3597	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3598	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3599	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3600	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3601	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3602	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3603	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3604	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3605	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3606	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3607	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
92	OHX	1	3608	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3609	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3610	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3611	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3612	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3613	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3614	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3615	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3616	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3617	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3618	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3619	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3620	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3621	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3622	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3623	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3624	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3625	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3626	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3627	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3628	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3629	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3630	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3631	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3632	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3633	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3634	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3635	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3636	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3637	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3638	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3639	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3640	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3641	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3642	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3643	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3644	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3645	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3646	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3647	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3648	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3649	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3650	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
92	OHX	1	3651	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3652	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3653	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3654	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3655	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3656	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3657	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3658	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3659	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3660	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3661	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3662	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3663	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3664	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3665	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3666	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3667	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3668	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3669	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3670	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3671	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3672	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3673	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3674	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3675	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3676	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3677	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3678	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3679	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3680	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3681	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3682	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3683	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3684	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3685	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3686	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3687	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3688	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3689	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3690	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3691	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3692	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3693	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
92	OHX	1	3694	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3695	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3696	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3697	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3698	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3699	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3700	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3701	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3702	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3703	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3704	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3705	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3706	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3707	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3708	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3709	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3710	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3711	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3712	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3713	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3714	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3715	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3716	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3717	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3718	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3719	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3720	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3721	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3722	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3723	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3724	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3725	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3726	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3727	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3728	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3729	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3730	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	1	3731	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1901	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1902	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1903	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1904	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1905	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
92	OHX	2	1906	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1907	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1908	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1909	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1910	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1911	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1912	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1913	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1914	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1915	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1916	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1917	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1918	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1919	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1920	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1921	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1922	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1923	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1924	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1925	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1926	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1927	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1928	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1929	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1930	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1931	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1932	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1933	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1934	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1935	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1936	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1937	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1938	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1939	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1940	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1941	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1942	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1943	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1944	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1945	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1946	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1947	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1948	-	0,6,6	0.00	-	0,15,15	0.00	-



Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
92	OHX	2	1949	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1950	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1951	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1952	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1953	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1954	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1955	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1956	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1957	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1958	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1959	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1960	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1961	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1962	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1963	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1964	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1965	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1966	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1967	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1968	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1969	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1970	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1971	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1972	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1973	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1974	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1975	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1976	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1977	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1978	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1979	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1980	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1981	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1982	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1983	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1984	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1985	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1986	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1987	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1988	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1989	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1990	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1991	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
92	OHX	2	1992	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1993	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1994	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1995	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1996	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1997	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1998	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	1999	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2000	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2001	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2002	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2003	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2004	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2005	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2006	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2007	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2008	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2009	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2010	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2011	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2012	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2013	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2014	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2015	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2016	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2017	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2018	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2019	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2020	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2021	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2022	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2023	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2024	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2025	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2026	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2027	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2028	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2029	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2030	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2031	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2032	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2033	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2034	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
92	OHX	2	2035	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2036	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2037	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2038	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2039	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2040	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2041	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2042	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2043	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2044	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2045	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2046	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2047	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2048	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2049	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2050	1	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	2	2051	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	3	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	3	202	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	3	203	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	3	204	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	3	205	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	3	206	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	3	207	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	3	208	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	3	209	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	3	210	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	4	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	4	202	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	4	203	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	4	204	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	4	205	38	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	4	206	38	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	4	207	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	4	208	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	4	209	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	4	210	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	4	211	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	4	212	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	4	213	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	4	214	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	4	215	38	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	4	216	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
92	OHX	4	217	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	4	218	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	4	219	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	4	220	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	4	221	-	0,6,6	0.00	-	0,15,15	0.00	-
95	PHE	5	3401	-	9,11,12	1.34	2 (22%)	11,13,15	0.78	0
96	LEU	5	3402	-	5,7,8	0.42	0	6,8,10	0.85	0
97	SPS	5	3403	93	19,23,23	3.57	11 (57%)	16,30,30	4.86	13 (81%)
92	OHX	5	3404	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3405	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3406	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3407	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3408	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3409	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3410	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3411	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3412	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3413	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3414	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3415	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3416	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3417	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3418	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3419	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3420	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3421	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3422	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3423	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3424	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3425	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3426	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3427	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3428	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3429	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3430	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3431	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3432	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3433	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3434	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3435	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3436	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3437	85	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
92	OHX	5	3438	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3439	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3440	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3441	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3442	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3443	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3444	37	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3445	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3446	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3447	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3448	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3449	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3450	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3451	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3452	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3453	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3454	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3455	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3456	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3457	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3458	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3459	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3460	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3461	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3462	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3463	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3464	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3465	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3466	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3467	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3468	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3469	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3470	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3471	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3472	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3473	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3474	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3475	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3476	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3477	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3478	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3479	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3480	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
92	OHX	5	3481	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3482	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3483	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3484	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3485	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3486	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3487	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3488	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3489	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3490	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3491	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3492	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3493	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3494	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3495	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3496	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3497	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3498	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3499	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3500	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3501	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3502	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3503	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3504	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3505	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3506	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3507	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3508	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3509	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3510	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3511	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3512	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3513	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3514	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3515	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3516	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3517	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3518	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3519	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3520	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3521	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3522	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3523	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
92	OHX	5	3524	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3525	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3526	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3527	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3528	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3529	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3530	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3531	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3532	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3533	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3534	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3535	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3536	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3537	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3538	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3539	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3540	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3541	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3542	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3543	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3544	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3545	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3546	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3547	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3548	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3549	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3550	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3551	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3552	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3553	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3554	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3555	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3556	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3557	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3558	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3559	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3560	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3561	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3562	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3563	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3564	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3565	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3566	85	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
92	OHX	5	3567	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3568	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3569	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3570	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3571	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3572	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3573	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3574	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3575	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3576	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3577	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3578	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3579	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3580	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3581	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3582	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3583	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3584	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3585	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3586	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3587	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3588	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3589	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3590	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3591	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3592	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3593	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3594	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3595	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3596	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3597	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3598	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3599	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3600	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3601	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3602	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3603	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3604	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3605	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3606	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3607	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3608	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3609	-	0,6,6	0.00	-	0,15,15	0.00	-



Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
92	OHX	5	3610	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3611	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3612	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3613	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3614	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3615	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3616	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3617	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3618	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3619	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3620	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3621	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3622	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3623	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3624	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3625	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3626	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3627	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3628	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3629	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3630	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3631	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3632	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3633	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3634	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3635	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3636	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3637	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3638	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3639	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3640	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3641	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3642	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3643	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3644	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3645	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3646	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3647	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3648	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3649	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3650	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3651	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3652	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
92	OHX	5	3653	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3654	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3655	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3656	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3657	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3658	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3659	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3660	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3661	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3662	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3663	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3664	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3665	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3666	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3667	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3668	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3669	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3670	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3671	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3672	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3673	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3674	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3675	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3676	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3677	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3678	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3679	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3680	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3681	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3682	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3683	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3684	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3685	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3686	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3687	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3688	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3689	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3690	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3691	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3692	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3693	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3694	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3695	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
92	OHX	5	3696	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3697	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3698	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3699	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3700	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3701	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3702	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3703	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3704	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3705	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3706	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3707	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3708	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3709	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3710	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3711	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3712	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3713	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3714	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3715	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3716	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3717	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3718	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3719	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3720	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3721	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3722	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3723	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3724	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3725	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3726	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3727	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3728	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3729	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3730	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3731	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3732	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3733	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3734	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3735	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3736	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3737	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3738	85	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
92	OHX	5	3739	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3740	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3741	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3742	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3743	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3744	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3745	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3746	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3747	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3748	85	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	5	3749	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1901	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1902	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1903	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1904	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1905	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1906	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1907	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1908	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1909	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1910	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1911	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1912	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1913	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1914	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1915	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1916	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1917	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1918	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1919	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1920	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1921	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1922	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1923	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1924	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1925	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1926	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1927	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1928	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1929	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1930	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1931	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1932	80	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
92	OHX	6	1933	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1934	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1935	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1936	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1937	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1938	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1939	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1940	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1941	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1942	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1943	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1944	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1945	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1946	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1947	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1948	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1949	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1950	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1951	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1952	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1953	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1954	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1955	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1956	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1957	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1958	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1959	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1960	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1961	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1962	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1963	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1964	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1965	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1966	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1967	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1968	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1969	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1970	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1971	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1972	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1973	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1974	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1975	-	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
92	OHX	6	1976	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1977	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1978	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1979	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1980	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1981	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1982	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1983	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1984	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1985	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1986	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1987	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1988	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1989	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1990	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1991	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1992	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1993	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1994	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1995	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1996	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1997	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1998	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	1999	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2000	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2001	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2002	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2003	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2004	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2005	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2006	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2007	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2008	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2009	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2010	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2011	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2012	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2013	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2014	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2015	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2016	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2017	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2018	80	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
92	OHX	6	2019	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2020	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2021	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2022	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2023	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2024	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2025	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2026	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2027	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2028	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2029	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2030	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2031	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2032	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2033	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2034	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2035	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2036	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2037	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2038	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2039	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2040	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2041	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2042	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2043	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2044	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2045	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2046	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2047	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2048	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2049	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2050	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2051	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2052	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2053	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2054	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2055	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2056	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2057	80	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2058	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	6	2059	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	7	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	7	202	37	0,6,6	0.00	-	0,15,15	0.00	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
92	OHX	7	203	37	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	7	204	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	7	205	37	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	7	206	37	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	7	207	37	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	7	208	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	7	209	37	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	7	210	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	7	211	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	8	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	8	202	38	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	8	203	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	8	204	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	8	205	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	8	206	38	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	8	207	38	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	8	208	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	8	209	38	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	8	210	38	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	8	211	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	8	212	38	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	8	213	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	8	214	38	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	8	215	38	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	8	216	38	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	C3	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	C5	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	C7	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	C8	201	36	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	D9	102	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	L3	401	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	L3	402	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	L4	401	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	L6	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	L6	202	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	M0	301	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	M5	301	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	M5	302	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	M6	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	M7	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	M8	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	M9	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	N9	101	-	0,6,6	0.00	-	0,15,15	0.00	-



Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
92	OHX	O3	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	O4	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	O7	102	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	O9	101	-	0,6,6	0.00	-	0,15,15	0.00	-
98	8AN	P	101	91,93	18,24,25	1.10	1 (5%)	10,35,38	2.36	1 (10%)
92	OHX	Q2	502	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	S8	301	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	S9	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	SR	401	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	c3	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	c5	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	c8	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	d4	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	l3	401	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	l3	402	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	l5	301	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	l5	302	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	l9	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	m0	301	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	m0	302	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	m0	303	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	m5	301	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	m5	302	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	m6	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	m8	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	m9	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	n9	101	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	o3	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	o7	502	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	o7	503	-	0,6,6	0.00	-	0,15,15	0.00	-
98	8AN	p	101	91,93	18,24,25	1.10	1 (5%)	10,35,38	2.39	2 (20%)
92	OHX	q2	502	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	s1	301	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	s4	301	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	s8	301	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	s9	201	-	0,6,6	0.00	-	0,15,15	0.00	-
92	OHX	sR	401	-	0,6,6	0.00	-	0,15,15	0.00	-

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the chemical component dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
95	PHE	1	3401	-	-	0/4/6/8	0/1/1/1
96	LEU	1	3402	-	-	0/4/6/8	0/0/0/0
97	SPS	1	3403	93	-	0/15/18/18	0/1/1/1
92	OHX	1	3404	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3405	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3406	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3407	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3408	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3409	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3410	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3411	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3412	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3413	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3414	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3415	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3416	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3417	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3418	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3419	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3420	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3421	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3422	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3423	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3424	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3425	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3426	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3427	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3428	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3429	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3430	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3431	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3432	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3433	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3434	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3435	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3436	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3437	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3438	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3439	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3440	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3441	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3442	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3443	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	1	3444	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3445	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3446	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3447	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3448	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3449	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3450	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3451	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3452	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3453	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3454	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3455	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3456	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3457	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3458	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3459	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3460	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3461	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3462	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3463	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3464	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3465	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3466	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3467	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3468	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3469	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3470	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3471	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3472	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3473	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3474	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3475	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3476	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3477	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3478	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3479	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3480	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3481	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3482	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3483	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3484	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3485	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	1	3486	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3487	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3488	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3489	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3490	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3491	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3492	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3493	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3494	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3495	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3496	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3497	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3498	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3499	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3500	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3501	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3502	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3503	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3504	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3505	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3506	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3507	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3508	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3509	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3510	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3511	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3512	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3513	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3514	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3515	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3516	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3517	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3518	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3519	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3520	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3521	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3522	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3523	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3524	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3525	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3526	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3527	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	1	3528	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3529	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3530	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3531	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3532	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3533	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3534	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3535	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3536	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3537	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3538	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3539	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3540	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3541	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3542	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3543	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3544	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3545	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3546	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3547	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3548	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3549	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3550	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3551	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3552	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3553	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3554	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3555	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3556	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3557	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3558	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3559	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3560	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3561	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3562	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3563	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3564	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3565	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3566	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3567	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3568	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3569	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	1	3570	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3571	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3572	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3573	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3574	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3575	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3576	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3577	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3578	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3579	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3580	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3581	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3582	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3583	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3584	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3585	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3586	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3587	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3588	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3589	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3590	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3591	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3592	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3593	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3594	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3595	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3596	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3597	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3598	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3599	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3600	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3601	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3602	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3603	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3604	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3605	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3606	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3607	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3608	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3609	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3610	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3611	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	1	3612	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3613	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3614	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3615	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3616	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3617	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3618	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3619	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3620	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3621	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3622	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3623	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3624	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3625	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3626	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3627	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3628	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3629	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3630	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3631	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3632	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3633	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3634	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3635	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3636	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3637	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3638	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3639	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3640	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3641	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3642	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3643	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3644	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3645	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3646	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3647	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3648	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3649	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3650	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3651	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3652	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3653	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	1	3654	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3655	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3656	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3657	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3658	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3659	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3660	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3661	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3662	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3663	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3664	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3665	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3666	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3667	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3668	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3669	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3670	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3671	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3672	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3673	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3674	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3675	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3676	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3677	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3678	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3679	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3680	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3681	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3682	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3683	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3684	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3685	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3686	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3687	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3688	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3689	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3690	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3691	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3692	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3693	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3694	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3695	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	1	3696	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3697	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3698	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3699	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3700	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3701	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3702	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3703	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3704	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3705	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3706	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3707	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3708	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3709	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3710	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3711	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3712	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3713	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3714	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3715	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3716	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3717	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3718	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3719	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3720	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3721	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3722	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3723	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3724	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3725	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3726	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3727	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3728	36	-	0/0/0/0	0/0/0/0
92	OHX	1	3729	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3730	-	-	0/0/0/0	0/0/0/0
92	OHX	1	3731	36	-	0/0/0/0	0/0/0/0
92	OHX	2	1901	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1902	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1903	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1904	1	-	0/0/0/0	0/0/0/0
92	OHX	2	1905	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1906	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	2	1907	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1908	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1909	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1910	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1911	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1912	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1913	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1914	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1915	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1916	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1917	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1918	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1919	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1920	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1921	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1922	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1923	1	-	0/0/0/0	0/0/0/0
92	OHX	2	1924	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1925	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1926	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1927	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1928	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1929	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1930	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1931	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1932	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1933	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1934	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1935	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1936	1	-	0/0/0/0	0/0/0/0
92	OHX	2	1937	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1938	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1939	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1940	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1941	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1942	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1943	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1944	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1945	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1946	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1947	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1948	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	2	1949	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1950	1	-	0/0/0/0	0/0/0/0
92	OHX	2	1951	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1952	1	-	0/0/0/0	0/0/0/0
92	OHX	2	1953	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1954	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1955	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1956	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1957	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1958	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1959	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1960	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1961	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1962	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1963	1	-	0/0/0/0	0/0/0/0
92	OHX	2	1964	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1965	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1966	1	-	0/0/0/0	0/0/0/0
92	OHX	2	1967	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1968	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1969	1	-	0/0/0/0	0/0/0/0
92	OHX	2	1970	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1971	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1972	1	-	0/0/0/0	0/0/0/0
92	OHX	2	1973	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1974	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1975	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1976	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1977	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1978	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1979	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1980	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1981	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1982	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1983	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1984	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1985	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1986	1	-	0/0/0/0	0/0/0/0
92	OHX	2	1987	1	-	0/0/0/0	0/0/0/0
92	OHX	2	1988	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1989	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1990	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	2	1991	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1992	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1993	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1994	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1995	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1996	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1997	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1998	-	-	0/0/0/0	0/0/0/0
92	OHX	2	1999	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2000	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2001	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2002	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2003	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2004	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2005	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2006	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2007	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2008	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2009	1	-	0/0/0/0	0/0/0/0
92	OHX	2	2010	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2011	1	-	0/0/0/0	0/0/0/0
92	OHX	2	2012	1	-	0/0/0/0	0/0/0/0
92	OHX	2	2013	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2014	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2015	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2016	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2017	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2018	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2019	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2020	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2021	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2022	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2023	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2024	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2025	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2026	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2027	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2028	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2029	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2030	1	-	0/0/0/0	0/0/0/0
92	OHX	2	2031	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2032	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	2	2033	1	-	0/0/0/0	0/0/0/0
92	OHX	2	2034	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2035	1	-	0/0/0/0	0/0/0/0
92	OHX	2	2036	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2037	1	-	0/0/0/0	0/0/0/0
92	OHX	2	2038	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2039	1	-	0/0/0/0	0/0/0/0
92	OHX	2	2040	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2041	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2042	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2043	1	-	0/0/0/0	0/0/0/0
92	OHX	2	2044	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2045	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2046	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2047	1	-	0/0/0/0	0/0/0/0
92	OHX	2	2048	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2049	-	-	0/0/0/0	0/0/0/0
92	OHX	2	2050	1	-	0/0/0/0	0/0/0/0
92	OHX	2	2051	-	-	0/0/0/0	0/0/0/0
92	OHX	3	201	-	-	0/0/0/0	0/0/0/0
92	OHX	3	202	-	-	0/0/0/0	0/0/0/0
92	OHX	3	203	-	-	0/0/0/0	0/0/0/0
92	OHX	3	204	-	-	0/0/0/0	0/0/0/0
92	OHX	3	205	-	-	0/0/0/0	0/0/0/0
92	OHX	3	206	-	-	0/0/0/0	0/0/0/0
92	OHX	3	207	-	-	0/0/0/0	0/0/0/0
92	OHX	3	208	-	-	0/0/0/0	0/0/0/0
92	OHX	3	209	-	-	0/0/0/0	0/0/0/0
92	OHX	3	210	-	-	0/0/0/0	0/0/0/0
92	OHX	4	201	-	-	0/0/0/0	0/0/0/0
92	OHX	4	202	-	-	0/0/0/0	0/0/0/0
92	OHX	4	203	-	-	0/0/0/0	0/0/0/0
92	OHX	4	204	-	-	0/0/0/0	0/0/0/0
92	OHX	4	205	38	-	0/0/0/0	0/0/0/0
92	OHX	4	206	38	-	0/0/0/0	0/0/0/0
92	OHX	4	207	-	-	0/0/0/0	0/0/0/0
92	OHX	4	208	-	-	0/0/0/0	0/0/0/0
92	OHX	4	209	-	-	0/0/0/0	0/0/0/0
92	OHX	4	210	-	-	0/0/0/0	0/0/0/0
92	OHX	4	211	-	-	0/0/0/0	0/0/0/0
92	OHX	4	212	-	-	0/0/0/0	0/0/0/0
92	OHX	4	213	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	4	214	-	-	0/0/0/0	0/0/0/0
92	OHX	4	215	38	-	0/0/0/0	0/0/0/0
92	OHX	4	216	-	-	0/0/0/0	0/0/0/0
92	OHX	4	217	-	-	0/0/0/0	0/0/0/0
92	OHX	4	218	-	-	0/0/0/0	0/0/0/0
92	OHX	4	219	-	-	0/0/0/0	0/0/0/0
92	OHX	4	220	-	-	0/0/0/0	0/0/0/0
92	OHX	4	221	-	-	0/0/0/0	0/0/0/0
95	PHE	5	3401	-	-	0/4/6/8	0/1/1/1
96	LEU	5	3402	-	-	0/4/6/8	0/0/0/0
97	SPS	5	3403	93	-	0/15/18/18	0/1/1/1
92	OHX	5	3404	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3405	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3406	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3407	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3408	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3409	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3410	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3411	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3412	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3413	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3414	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3415	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3416	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3417	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3418	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3419	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3420	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3421	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3422	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3423	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3424	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3425	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3426	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3427	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3428	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3429	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3430	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3431	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3432	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3433	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3434	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	5	3435	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3436	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3437	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3438	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3439	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3440	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3441	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3442	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3443	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3444	37	-	0/0/0/0	0/0/0/0
92	OHX	5	3445	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3446	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3447	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3448	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3449	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3450	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3451	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3452	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3453	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3454	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3455	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3456	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3457	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3458	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3459	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3460	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3461	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3462	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3463	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3464	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3465	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3466	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3467	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3468	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3469	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3470	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3471	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3472	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3473	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3474	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3475	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3476	85	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	5	3477	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3478	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3479	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3480	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3481	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3482	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3483	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3484	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3485	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3486	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3487	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3488	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3489	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3490	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3491	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3492	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3493	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3494	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3495	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3496	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3497	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3498	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3499	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3500	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3501	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3502	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3503	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3504	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3505	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3506	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3507	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3508	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3509	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3510	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3511	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3512	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3513	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3514	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3515	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3516	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3517	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3518	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	5	3519	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3520	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3521	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3522	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3523	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3524	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3525	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3526	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3527	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3528	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3529	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3530	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3531	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3532	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3533	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3534	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3535	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3536	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3537	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3538	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3539	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3540	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3541	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3542	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3543	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3544	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3545	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3546	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3547	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3548	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3549	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3550	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3551	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3552	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3553	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3554	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3555	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3556	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3557	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3558	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3559	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3560	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	5	3561	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3562	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3563	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3564	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3565	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3566	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3567	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3568	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3569	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3570	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3571	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3572	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3573	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3574	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3575	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3576	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3577	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3578	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3579	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3580	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3581	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3582	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3583	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3584	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3585	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3586	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3587	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3588	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3589	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3590	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3591	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3592	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3593	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3594	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3595	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3596	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3597	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3598	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3599	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3600	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3601	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3602	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	5	3603	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3604	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3605	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3606	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3607	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3608	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3609	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3610	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3611	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3612	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3613	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3614	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3615	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3616	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3617	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3618	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3619	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3620	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3621	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3622	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3623	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3624	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3625	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3626	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3627	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3628	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3629	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3630	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3631	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3632	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3633	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3634	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3635	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3636	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3637	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3638	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3639	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3640	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3641	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3642	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3643	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3644	85	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	5	3645	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3646	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3647	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3648	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3649	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3650	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3651	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3652	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3653	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3654	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3655	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3656	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3657	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3658	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3659	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3660	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3661	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3662	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3663	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3664	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3665	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3666	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3667	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3668	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3669	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3670	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3671	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3672	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3673	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3674	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3675	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3676	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3677	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3678	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3679	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3680	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3681	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3682	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3683	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3684	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3685	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3686	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	5	3687	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3688	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3689	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3690	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3691	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3692	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3693	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3694	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3695	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3696	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3697	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3698	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3699	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3700	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3701	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3702	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3703	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3704	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3705	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3706	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3707	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3708	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3709	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3710	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3711	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3712	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3713	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3714	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3715	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3716	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3717	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3718	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3719	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3720	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3721	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3722	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3723	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3724	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3725	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3726	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3727	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3728	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	5	3729	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3730	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3731	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3732	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3733	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3734	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3735	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3736	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3737	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3738	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3739	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3740	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3741	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3742	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3743	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3744	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3745	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3746	-	-	0/0/0/0	0/0/0/0
92	OHX	5	3747	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3748	85	-	0/0/0/0	0/0/0/0
92	OHX	5	3749	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1901	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1902	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1903	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1904	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1905	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1906	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1907	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1908	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1909	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1910	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1911	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1912	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1913	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1914	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1915	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1916	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1917	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1918	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1919	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1920	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1921	80	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	6	1922	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1923	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1924	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1925	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1926	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1927	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1928	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1929	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1930	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1931	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1932	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1933	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1934	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1935	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1936	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1937	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1938	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1939	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1940	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1941	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1942	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1943	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1944	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1945	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1946	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1947	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1948	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1949	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1950	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1951	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1952	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1953	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1954	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1955	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1956	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1957	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1958	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1959	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1960	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1961	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1962	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1963	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	6	1964	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1965	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1966	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1967	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1968	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1969	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1970	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1971	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1972	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1973	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1974	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1975	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1976	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1977	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1978	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1979	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1980	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1981	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1982	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1983	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1984	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1985	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1986	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1987	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1988	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1989	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1990	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1991	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1992	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1993	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1994	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1995	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1996	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1997	-	-	0/0/0/0	0/0/0/0
92	OHX	6	1998	80	-	0/0/0/0	0/0/0/0
92	OHX	6	1999	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2000	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2001	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2002	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2003	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2004	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2005	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	6	2006	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2007	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2008	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2009	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2010	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2011	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2012	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2013	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2014	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2015	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2016	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2017	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2018	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2019	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2020	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2021	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2022	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2023	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2024	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2025	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2026	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2027	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2028	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2029	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2030	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2031	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2032	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2033	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2034	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2035	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2036	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2037	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2038	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2039	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2040	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2041	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2042	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2043	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2044	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2045	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2046	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2047	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	6	2048	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2049	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2050	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2051	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2052	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2053	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2054	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2055	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2056	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2057	80	-	0/0/0/0	0/0/0/0
92	OHX	6	2058	-	-	0/0/0/0	0/0/0/0
92	OHX	6	2059	-	-	0/0/0/0	0/0/0/0
92	OHX	7	201	-	-	0/0/0/0	0/0/0/0
92	OHX	7	202	37	-	0/0/0/0	0/0/0/0
92	OHX	7	203	37	-	0/0/0/0	0/0/0/0
92	OHX	7	204	-	-	0/0/0/0	0/0/0/0
92	OHX	7	205	37	-	0/0/0/0	0/0/0/0
92	OHX	7	206	37	-	0/0/0/0	0/0/0/0
92	OHX	7	207	37	-	0/0/0/0	0/0/0/0
92	OHX	7	208	-	-	0/0/0/0	0/0/0/0
92	OHX	7	209	37	-	0/0/0/0	0/0/0/0
92	OHX	7	210	-	-	0/0/0/0	0/0/0/0
92	OHX	7	211	-	-	0/0/0/0	0/0/0/0
92	OHX	8	201	-	-	0/0/0/0	0/0/0/0
92	OHX	8	202	38	-	0/0/0/0	0/0/0/0
92	OHX	8	203	-	-	0/0/0/0	0/0/0/0
92	OHX	8	204	-	-	0/0/0/0	0/0/0/0
92	OHX	8	205	-	-	0/0/0/0	0/0/0/0
92	OHX	8	206	38	-	0/0/0/0	0/0/0/0
92	OHX	8	207	38	-	0/0/0/0	0/0/0/0
92	OHX	8	208	-	-	0/0/0/0	0/0/0/0
92	OHX	8	209	38	-	0/0/0/0	0/0/0/0
92	OHX	8	210	38	-	0/0/0/0	0/0/0/0
92	OHX	8	211	-	-	0/0/0/0	0/0/0/0
92	OHX	8	212	38	-	0/0/0/0	0/0/0/0
92	OHX	8	213	-	-	0/0/0/0	0/0/0/0
92	OHX	8	214	38	-	0/0/0/0	0/0/0/0
92	OHX	8	215	38	-	0/0/0/0	0/0/0/0
92	OHX	8	216	38	-	0/0/0/0	0/0/0/0
92	OHX	C3	201	-	-	0/0/0/0	0/0/0/0
92	OHX	C5	201	-	-	0/0/0/0	0/0/0/0
92	OHX	C7	201	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	C8	201	36	-	0/0/0/0	0/0/0/0
92	OHX	D9	102	-	-	0/0/0/0	0/0/0/0
92	OHX	L3	401	-	-	0/0/0/0	0/0/0/0
92	OHX	L3	402	-	-	0/0/0/0	0/0/0/0
92	OHX	L4	401	-	-	0/0/0/0	0/0/0/0
92	OHX	L6	201	-	-	0/0/0/0	0/0/0/0
92	OHX	L6	202	-	-	0/0/0/0	0/0/0/0
92	OHX	M0	301	-	-	0/0/0/0	0/0/0/0
92	OHX	M5	301	-	-	0/0/0/0	0/0/0/0
92	OHX	M5	302	-	-	0/0/0/0	0/0/0/0
92	OHX	M6	201	-	-	0/0/0/0	0/0/0/0
92	OHX	M7	201	-	-	0/0/0/0	0/0/0/0
92	OHX	M8	201	-	-	0/0/0/0	0/0/0/0
92	OHX	M9	201	-	-	0/0/0/0	0/0/0/0
92	OHX	N9	101	-	-	0/0/0/0	0/0/0/0
92	OHX	O3	201	-	-	0/0/0/0	0/0/0/0
92	OHX	O4	201	-	-	0/0/0/0	0/0/0/0
92	OHX	O7	102	-	-	0/0/0/0	0/0/0/0
92	OHX	O9	101	-	-	0/0/0/0	0/0/0/0
98	8AN	P	101	91,93	-	0/3/25/26	0/3/3/3
92	OHX	Q2	502	-	-	0/0/0/0	0/0/0/0
92	OHX	S8	301	-	-	0/0/0/0	0/0/0/0
92	OHX	S9	201	-	-	0/0/0/0	0/0/0/0
92	OHX	SR	401	-	-	0/0/0/0	0/0/0/0
92	OHX	c3	201	-	-	0/0/0/0	0/0/0/0
92	OHX	c5	201	-	-	0/0/0/0	0/0/0/0
92	OHX	c8	201	-	-	0/0/0/0	0/0/0/0
92	OHX	d4	201	-	-	0/0/0/0	0/0/0/0
92	OHX	l3	401	-	-	0/0/0/0	0/0/0/0
92	OHX	l3	402	-	-	0/0/0/0	0/0/0/0
92	OHX	l5	301	-	-	0/0/0/0	0/0/0/0
92	OHX	l5	302	-	-	0/0/0/0	0/0/0/0
92	OHX	l9	201	-	-	0/0/0/0	0/0/0/0
92	OHX	m0	301	-	-	0/0/0/0	0/0/0/0
92	OHX	m0	302	-	-	0/0/0/0	0/0/0/0
92	OHX	m0	303	-	-	0/0/0/0	0/0/0/0
92	OHX	m5	301	-	-	0/0/0/0	0/0/0/0
92	OHX	m5	302	-	-	0/0/0/0	0/0/0/0
92	OHX	m6	201	-	-	0/0/0/0	0/0/0/0
92	OHX	m8	201	-	-	0/0/0/0	0/0/0/0
92	OHX	m9	201	-	-	0/0/0/0	0/0/0/0
92	OHX	n9	101	-	-	0/0/0/0	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
92	OHX	o3	201	-	-	0/0/0/0	0/0/0/0
92	OHX	o7	502	-	-	0/0/0/0	0/0/0/0
92	OHX	o7	503	-	-	0/0/0/0	0/0/0/0
98	8AN	p	101	91,93	-	0/3/25/26	0/3/3/3
92	OHX	q2	502	-	-	0/0/0/0	0/0/0/0
92	OHX	s1	301	-	-	0/0/0/0	0/0/0/0
92	OHX	s4	301	-	-	0/0/0/0	0/0/0/0
92	OHX	s8	301	-	-	0/0/0/0	0/0/0/0
92	OHX	s9	201	-	-	0/0/0/0	0/0/0/0
92	OHX	sR	401	-	-	0/0/0/0	0/0/0/0

All (26) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
97	5	3403	SPS	C9-C10	-7.84	1.32	1.48
97	1	3403	SPS	C9-C10	-6.32	1.35	1.48
97	1	3403	SPS	O13-C13	-4.90	1.21	1.42
97	5	3403	SPS	O13-C13	-4.79	1.21	1.42
97	5	3403	SPS	C6-C5	-4.46	1.33	1.40
97	5	3403	SPS	C1-C6	-3.76	1.36	1.44
97	5	3403	SPS	C14-S15	-3.48	1.77	1.81
97	5	3403	SPS	O10-C10	-3.46	1.17	1.24
97	1	3403	SPS	C1-C6	-2.97	1.37	1.44
97	1	3403	SPS	C3-N4	-2.93	1.32	1.38
97	5	3403	SPS	O1-C1	-2.55	1.18	1.24
97	5	3403	SPS	C3-N4	-2.43	1.33	1.38
95	1	3401	PHE	CE1-CD1	2.05	1.42	1.38
95	5	3401	PHE	CE1-CD1	2.09	1.43	1.38
97	5	3403	SPS	C6-C8	2.59	1.53	1.47
95	1	3401	PHE	CZ-CE1	2.63	1.44	1.38
95	5	3401	PHE	CZ-CE1	2.63	1.44	1.38
98	p	101	8AN	C5-C4	3.14	1.47	1.40
98	P	101	8AN	C5-C4	3.15	1.47	1.40
97	5	3403	SPS	C10-N11	3.34	1.44	1.34
97	1	3403	SPS	C13-C12	3.36	1.58	1.52
97	1	3403	SPS	C6-C8	4.05	1.56	1.47
97	1	3403	SPS	C10-N11	4.15	1.46	1.34
97	1	3403	SPS	O15-S15	4.41	1.64	1.50
97	5	3403	SPS	C9-C8	7.24	1.53	1.32
97	1	3403	SPS	C9-C8	7.78	1.54	1.32

All (27) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
97	5	3403	SPS	C7-C5-C6	-9.00	112.86	123.63
97	1	3403	SPS	N2-C3-N4	-6.84	116.17	127.69
97	5	3403	SPS	N2-C3-N4	-6.72	116.38	127.69
98	p	101	8AN	N3-C2-N1	-6.62	123.67	128.87
97	1	3403	SPS	C7-C5-C6	-6.59	115.75	123.63
98	P	101	8AN	N3-C2-N1	-6.52	123.75	128.87
97	1	3403	SPS	C12-N11-C10	-5.12	115.65	122.57
97	5	3403	SPS	O10-C10-N11	-4.28	115.60	122.34
97	5	3403	SPS	C6-C8-C9	-3.27	116.45	127.08
97	1	3403	SPS	O10-C10-N11	-2.64	118.18	122.34
97	5	3403	SPS	C5-C6-C8	-2.37	114.86	120.02
97	5	3403	SPS	C12-N11-C10	-2.08	119.76	122.57
97	5	3403	SPS	C14-C12-C13	2.02	115.89	111.85
98	p	101	8AN	C4'-O4'-C1'	2.03	111.80	109.64
97	1	3403	SPS	C7-C5-N4	2.13	119.56	116.32
97	5	3403	SPS	C6-C5-N4	2.20	123.49	121.23
97	1	3403	SPS	C14-C12-C13	2.55	116.95	111.85
97	1	3403	SPS	C8-C9-C10	2.73	127.01	121.56
97	1	3403	SPS	C6-C5-N4	3.38	124.70	121.23
97	5	3403	SPS	C9-C10-N11	3.80	122.63	114.14
97	5	3403	SPS	C7-C5-N4	4.83	123.64	116.32
97	1	3403	SPS	C13-C12-N11	4.88	118.25	109.58
97	5	3403	SPS	C18-S17-C16	5.20	116.05	100.14
97	5	3403	SPS	O13-C13-C12	5.78	128.28	112.24
97	1	3403	SPS	O13-C13-C12	6.85	131.24	112.24
97	5	3403	SPS	C1-N2-C3	10.08	123.57	115.16
97	1	3403	SPS	C1-N2-C3	12.94	125.96	115.16

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

500 monomers are involved in 860 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
96	1	3402	LEU	3	0
97	1	3403	SPS	13	0
92	1	3407	OHX	1	0
92	1	3408	OHX	2	0
92	1	3414	OHX	1	0
92	1	3415	OHX	2	0
92	1	3417	OHX	1	0
92	1	3418	OHX	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
92	1	3419	OHX	2	0
92	1	3420	OHX	1	0
92	1	3422	OHX	1	0
92	1	3425	OHX	1	0
92	1	3429	OHX	1	0
92	1	3430	OHX	1	0
92	1	3431	OHX	1	0
92	1	3438	OHX	1	0
92	1	3441	OHX	1	0
92	1	3443	OHX	2	0
92	1	3446	OHX	2	0
92	1	3447	OHX	1	0
92	1	3449	OHX	2	0
92	1	3451	OHX	1	0
92	1	3455	OHX	1	0
92	1	3458	OHX	1	0
92	1	3460	OHX	1	0
92	1	3463	OHX	1	0
92	1	3464	OHX	1	0
92	1	3466	OHX	1	0
92	1	3467	OHX	1	0
92	1	3468	OHX	1	0
92	1	3470	OHX	1	0
92	1	3471	OHX	1	0
92	1	3474	OHX	1	0
92	1	3475	OHX	1	0
92	1	3476	OHX	1	0
92	1	3477	OHX	1	0
92	1	3479	OHX	1	0
92	1	3480	OHX	1	0
92	1	3484	OHX	2	0
92	1	3487	OHX	1	0
92	1	3489	OHX	1	0
92	1	3490	OHX	1	0
92	1	3493	OHX	1	0
92	1	3494	OHX	6	0
92	1	3496	OHX	1	0
92	1	3500	OHX	3	0
92	1	3501	OHX	2	0
92	1	3502	OHX	2	0
92	1	3507	OHX	8	0
92	1	3508	OHX	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
92	1	3511	OHX	6	0
92	1	3513	OHX	3	0
92	1	3515	OHX	2	0
92	1	3516	OHX	1	0
92	1	3517	OHX	1	0
92	1	3518	OHX	2	0
92	1	3521	OHX	1	0
92	1	3523	OHX	1	0
92	1	3525	OHX	4	0
92	1	3526	OHX	2	0
92	1	3528	OHX	1	0
92	1	3531	OHX	1	0
92	1	3532	OHX	2	0
92	1	3534	OHX	3	0
92	1	3536	OHX	1	0
92	1	3537	OHX	2	0
92	1	3540	OHX	1	0
92	1	3542	OHX	1	0
92	1	3543	OHX	1	0
92	1	3547	OHX	1	0
92	1	3552	OHX	1	0
92	1	3558	OHX	1	0
92	1	3560	OHX	2	0
92	1	3562	OHX	1	0
92	1	3563	OHX	6	0
92	1	3565	OHX	7	0
92	1	3566	OHX	2	0
92	1	3568	OHX	2	0
92	1	3571	OHX	2	0
92	1	3572	OHX	2	0
92	1	3574	OHX	1	0
92	1	3575	OHX	1	0
92	1	3576	OHX	4	0
92	1	3577	OHX	3	0
92	1	3578	OHX	5	0
92	1	3580	OHX	2	0
92	1	3583	OHX	4	0
92	1	3585	OHX	4	0
92	1	3586	OHX	2	0
92	1	3589	OHX	4	0
92	1	3590	OHX	4	0
92	1	3591	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
92	1	3597	OHX	1	0
92	1	3599	OHX	1	0
92	1	3600	OHX	6	0
92	1	3603	OHX	2	0
92	1	3604	OHX	1	0
92	1	3605	OHX	2	0
92	1	3606	OHX	1	0
92	1	3607	OHX	1	0
92	1	3609	OHX	1	0
92	1	3611	OHX	1	0
92	1	3612	OHX	5	0
92	1	3616	OHX	4	0
92	1	3620	OHX	1	0
92	1	3624	OHX	1	0
92	1	3626	OHX	2	0
92	1	3627	OHX	1	0
92	1	3631	OHX	1	0
92	1	3635	OHX	1	0
92	1	3638	OHX	2	0
92	1	3640	OHX	1	0
92	1	3641	OHX	1	0
92	1	3644	OHX	1	0
92	1	3648	OHX	7	0
92	1	3651	OHX	2	0
92	1	3652	OHX	2	0
92	1	3654	OHX	2	0
92	1	3655	OHX	1	0
92	1	3657	OHX	1	0
92	1	3660	OHX	1	0
92	1	3662	OHX	4	0
92	1	3665	OHX	2	0
92	1	3668	OHX	2	0
92	1	3670	OHX	3	0
92	1	3671	OHX	1	0
92	1	3674	OHX	2	0
92	1	3675	OHX	1	0
92	1	3677	OHX	1	0
92	1	3679	OHX	1	0
92	1	3683	OHX	1	0
92	1	3684	OHX	4	0
92	1	3687	OHX	1	0
92	1	3689	OHX	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
92	1	3690	OHX	6	0
92	1	3691	OHX	7	0
92	1	3694	OHX	6	0
92	1	3697	OHX	1	0
92	1	3698	OHX	1	0
92	1	3699	OHX	2	0
92	1	3702	OHX	5	0
92	1	3703	OHX	1	0
92	1	3705	OHX	2	0
92	1	3707	OHX	1	0
92	1	3709	OHX	1	0
92	1	3710	OHX	4	0
92	1	3711	OHX	5	0
92	1	3713	OHX	2	0
92	1	3714	OHX	1	0
92	1	3715	OHX	1	0
92	1	3720	OHX	1	0
92	1	3721	OHX	1	0
92	1	3728	OHX	2	0
92	1	3729	OHX	3	0
92	1	3731	OHX	1	0
92	2	1909	OHX	1	0
92	2	1911	OHX	1	0
92	2	1912	OHX	1	0
92	2	1913	OHX	2	0
92	2	1914	OHX	4	0
92	2	1916	OHX	1	0
92	2	1917	OHX	2	0
92	2	1919	OHX	1	0
92	2	1920	OHX	2	0
92	2	1921	OHX	6	0
92	2	1922	OHX	1	0
92	2	1924	OHX	1	0
92	2	1928	OHX	1	0
92	2	1929	OHX	1	0
92	2	1931	OHX	1	0
92	2	1938	OHX	3	0
92	2	1940	OHX	2	0
92	2	1942	OHX	1	0
92	2	1944	OHX	2	0
92	2	1949	OHX	2	0
92	2	1952	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
92	2	1955	OHX	2	0
92	2	1956	OHX	2	0
92	2	1960	OHX	2	0
92	2	1961	OHX	2	0
92	2	1962	OHX	1	0
92	2	1966	OHX	3	0
92	2	1967	OHX	3	0
92	2	1969	OHX	1	0
92	2	1970	OHX	5	0
92	2	1971	OHX	1	0
92	2	1972	OHX	3	0
92	2	1973	OHX	1	0
92	2	1974	OHX	1	0
92	2	1976	OHX	1	0
92	2	1977	OHX	1	0
92	2	1980	OHX	1	0
92	2	1982	OHX	2	0
92	2	1983	OHX	1	0
92	2	1985	OHX	5	0
92	2	1986	OHX	2	0
92	2	1988	OHX	2	0
92	2	1989	OHX	3	0
92	2	1993	OHX	1	0
92	2	1994	OHX	1	0
92	2	1997	OHX	1	0
92	2	1999	OHX	1	0
92	2	2005	OHX	2	0
92	2	2006	OHX	1	0
92	2	2009	OHX	2	0
92	2	2013	OHX	2	0
92	2	2020	OHX	1	0
92	2	2023	OHX	2	0
92	2	2026	OHX	1	0
92	2	2027	OHX	1	0
92	2	2028	OHX	1	0
92	2	2029	OHX	2	0
92	2	2035	OHX	2	0
92	2	2038	OHX	2	0
92	2	2040	OHX	7	0
92	2	2043	OHX	1	0
92	2	2046	OHX	1	0
92	2	2050	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
92	2	2051	OHX	1	0
92	3	203	OHX	1	0
92	3	204	OHX	8	0
92	3	206	OHX	1	0
92	3	207	OHX	1	0
92	4	201	OHX	1	0
92	4	202	OHX	1	0
92	4	203	OHX	1	0
92	4	204	OHX	1	0
92	4	206	OHX	1	0
92	4	207	OHX	1	0
92	4	208	OHX	2	0
92	4	209	OHX	1	0
92	4	210	OHX	2	0
92	4	211	OHX	1	0
92	4	213	OHX	1	0
92	4	215	OHX	1	0
92	4	216	OHX	1	0
92	4	217	OHX	2	0
92	4	218	OHX	2	0
92	4	220	OHX	1	0
95	5	3401	PHE	5	0
96	5	3402	LEU	3	0
97	5	3403	SPS	7	0
92	5	3404	OHX	2	0
92	5	3406	OHX	2	0
92	5	3407	OHX	1	0
92	5	3412	OHX	1	0
92	5	3413	OHX	1	0
92	5	3415	OHX	1	0
92	5	3422	OHX	1	0
92	5	3428	OHX	1	0
92	5	3430	OHX	1	0
92	5	3431	OHX	1	0
92	5	3433	OHX	2	0
92	5	3435	OHX	1	0
92	5	3437	OHX	1	0
92	5	3438	OHX	1	0
92	5	3440	OHX	1	0
92	5	3446	OHX	1	0
92	5	3447	OHX	1	0
92	5	3450	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
92	5	3453	OHX	1	0
92	5	3456	OHX	3	0
92	5	3457	OHX	2	0
92	5	3459	OHX	1	0
92	5	3460	OHX	2	0
92	5	3463	OHX	1	0
92	5	3464	OHX	1	0
92	5	3465	OHX	2	0
92	5	3467	OHX	1	0
92	5	3470	OHX	1	0
92	5	3472	OHX	2	0
92	5	3475	OHX	3	0
92	5	3477	OHX	1	0
92	5	3479	OHX	1	0
92	5	3480	OHX	1	0
92	5	3481	OHX	4	0
92	5	3485	OHX	1	0
92	5	3487	OHX	1	0
92	5	3488	OHX	1	0
92	5	3489	OHX	1	0
92	5	3493	OHX	1	0
92	5	3498	OHX	1	0
92	5	3500	OHX	1	0
92	5	3503	OHX	6	0
92	5	3505	OHX	1	0
92	5	3506	OHX	8	0
92	5	3509	OHX	1	0
92	5	3511	OHX	2	0
92	5	3512	OHX	2	0
92	5	3518	OHX	1	0
92	5	3519	OHX	1	0
92	5	3521	OHX	1	0
92	5	3522	OHX	6	0
92	5	3524	OHX	4	0
92	5	3525	OHX	1	0
92	5	3527	OHX	1	0
92	5	3528	OHX	1	0
92	5	3529	OHX	1	0
92	5	3530	OHX	2	0
92	5	3531	OHX	1	0
92	5	3532	OHX	1	0
92	5	3533	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
92	5	3534	OHX	6	0
92	5	3539	OHX	1	0
92	5	3541	OHX	1	0
92	5	3542	OHX	1	0
92	5	3544	OHX	1	0
92	5	3545	OHX	1	0
92	5	3550	OHX	1	0
92	5	3551	OHX	1	0
92	5	3555	OHX	11	0
92	5	3565	OHX	4	0
92	5	3566	OHX	5	0
92	5	3570	OHX	1	0
92	5	3571	OHX	1	0
92	5	3572	OHX	1	0
92	5	3574	OHX	4	0
92	5	3576	OHX	5	0
92	5	3578	OHX	1	0
92	5	3579	OHX	1	0
92	5	3580	OHX	7	0
92	5	3583	OHX	1	0
92	5	3588	OHX	2	0
92	5	3589	OHX	1	0
92	5	3590	OHX	1	0
92	5	3591	OHX	4	0
92	5	3592	OHX	1	0
92	5	3594	OHX	1	0
92	5	3600	OHX	2	0
92	5	3601	OHX	2	0
92	5	3602	OHX	1	0
92	5	3604	OHX	2	0
92	5	3605	OHX	2	0
92	5	3606	OHX	2	0
92	5	3608	OHX	1	0
92	5	3609	OHX	2	0
92	5	3612	OHX	1	0
92	5	3617	OHX	1	0
92	5	3622	OHX	1	0
92	5	3625	OHX	3	0
92	5	3627	OHX	3	0
92	5	3628	OHX	2	0
92	5	3633	OHX	1	0
92	5	3634	OHX	4	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
92	5	3635	OHX	1	0
92	5	3637	OHX	2	0
92	5	3638	OHX	1	0
92	5	3640	OHX	4	0
92	5	3641	OHX	1	0
92	5	3643	OHX	3	0
92	5	3645	OHX	1	0
92	5	3646	OHX	2	0
92	5	3649	OHX	2	0
92	5	3652	OHX	1	0
92	5	3653	OHX	1	0
92	5	3655	OHX	1	0
92	5	3656	OHX	1	0
92	5	3658	OHX	2	0
92	5	3659	OHX	1	0
92	5	3660	OHX	1	0
92	5	3662	OHX	2	0
92	5	3663	OHX	1	0
92	5	3670	OHX	1	0
92	5	3671	OHX	6	0
92	5	3675	OHX	2	0
92	5	3677	OHX	1	0
92	5	3681	OHX	1	0
92	5	3683	OHX	2	0
92	5	3686	OHX	2	0
92	5	3687	OHX	2	0
92	5	3688	OHX	2	0
92	5	3692	OHX	5	0
92	5	3694	OHX	5	0
92	5	3696	OHX	1	0
92	5	3698	OHX	1	0
92	5	3700	OHX	2	0
92	5	3702	OHX	8	0
92	5	3703	OHX	7	0
92	5	3705	OHX	3	0
92	5	3706	OHX	5	0
92	5	3712	OHX	1	0
92	5	3718	OHX	3	0
92	5	3721	OHX	8	0
92	5	3724	OHX	4	0
92	5	3725	OHX	1	0
92	5	3727	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
92	5	3729	OHX	2	0
92	5	3730	OHX	3	0
92	5	3731	OHX	1	0
92	5	3732	OHX	1	0
92	5	3733	OHX	1	0
92	5	3734	OHX	1	0
92	5	3738	OHX	1	0
92	5	3740	OHX	3	0
92	5	3742	OHX	1	0
92	5	3744	OHX	1	0
92	5	3745	OHX	1	0
92	5	3746	OHX	1	0
92	5	3747	OHX	2	0
92	6	1906	OHX	1	0
92	6	1908	OHX	1	0
92	6	1910	OHX	1	0
92	6	1911	OHX	2	0
92	6	1913	OHX	1	0
92	6	1914	OHX	4	0
92	6	1915	OHX	1	0
92	6	1916	OHX	1	0
92	6	1917	OHX	1	0
92	6	1920	OHX	3	0
92	6	1921	OHX	3	0
92	6	1923	OHX	1	0
92	6	1925	OHX	1	0
92	6	1927	OHX	3	0
92	6	1929	OHX	2	0
92	6	1934	OHX	1	0
92	6	1938	OHX	4	0
92	6	1939	OHX	1	0
92	6	1943	OHX	1	0
92	6	1944	OHX	1	0
92	6	1948	OHX	2	0
92	6	1949	OHX	1	0
92	6	1950	OHX	1	0
92	6	1951	OHX	3	0
92	6	1952	OHX	2	0
92	6	1953	OHX	1	0
92	6	1955	OHX	3	0
92	6	1956	OHX	2	0
92	6	1957	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
92	6	1960	OHX	1	0
92	6	1962	OHX	3	0
92	6	1965	OHX	1	0
92	6	1968	OHX	1	0
92	6	1970	OHX	2	0
92	6	1973	OHX	1	0
92	6	1976	OHX	2	0
92	6	1978	OHX	4	0
92	6	1982	OHX	1	0
92	6	1988	OHX	1	0
92	6	1990	OHX	1	0
92	6	1994	OHX	2	0
92	6	1995	OHX	1	0
92	6	1996	OHX	2	0
92	6	1998	OHX	4	0
92	6	1999	OHX	1	0
92	6	2000	OHX	1	0
92	6	2001	OHX	4	0
92	6	2005	OHX	3	0
92	6	2007	OHX	1	0
92	6	2012	OHX	2	0
92	6	2016	OHX	3	0
92	6	2017	OHX	1	0
92	6	2018	OHX	3	0
92	6	2022	OHX	1	0
92	6	2023	OHX	1	0
92	6	2030	OHX	2	0
92	6	2031	OHX	2	0
92	6	2032	OHX	1	0
92	6	2033	OHX	2	0
92	6	2034	OHX	2	0
92	6	2038	OHX	2	0
92	6	2039	OHX	3	0
92	6	2046	OHX	1	0
92	6	2048	OHX	4	0
92	6	2049	OHX	3	0
92	6	2052	OHX	1	0
92	6	2053	OHX	1	0
92	6	2058	OHX	4	0
92	7	202	OHX	1	0
92	7	205	OHX	2	0
92	7	208	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
92	7	209	OHX	6	0
92	8	201	OHX	2	0
92	8	202	OHX	1	0
92	8	203	OHX	1	0
92	8	205	OHX	1	0
92	8	206	OHX	1	0
92	8	208	OHX	2	0
92	8	210	OHX	3	0
92	8	216	OHX	1	0
92	C3	201	OHX	6	0
92	C5	201	OHX	4	0
92	C7	201	OHX	2	0
92	D9	102	OHX	1	0
92	L3	402	OHX	3	0
92	L4	401	OHX	3	0
92	L6	202	OHX	2	0
92	M0	301	OHX	2	0
92	M5	301	OHX	1	0
92	M5	302	OHX	1	0
92	M6	201	OHX	1	0
92	M7	201	OHX	1	0
92	M8	201	OHX	1	0
92	M9	201	OHX	2	0
92	O3	201	OHX	3	0
92	O7	102	OHX	7	0
92	O9	101	OHX	2	0
98	P	101	8AN	28	0
92	Q2	502	OHX	4	0
92	S8	301	OHX	3	0
92	S9	201	OHX	4	0

## 5.7 Other polymers [i](#)

There are no such residues in this entry.

## 5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
36	1	3

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Mol	Chain	Number of breaks
85	5	3
87	m2	2
84	sM	2
41	l4	2
1	2	2
35	SM	1
10	S8	1
68	O2	1
89	p0	1
19	C7	1
81	c0	1
40	l3	1
13	C1	1
6	S4	1
57	n1	1
82	c7	1
10	s8	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	2	1781:U	O3'	1782:C	P	145.43
1	sM	85:SER	C	119:UNK	N	43.83
1	sM	139:UNK	C	155:UNK	N	38.91
1	1	1955:U	O3'	2093:A	P	25.58
1	SM	141:ALA	C	151:UNK	N	25.40
1	s8	123:LYS	C	135:LYS	N	21.59
1	S8	123:LYS	C	135:LYS	N	19.74
1	5	2444:C	O3'	2503:G	P	19.59
1	2	658:C	O3'	659:G	P	18.47
1	5	1953:G	O3'	2093:A	P	16.42
1	5	443:G	O3'	491:C	P	16.33
1	1	2445:A	O3'	2501:U	P	14.71
1	1	440:A	O3'	494:G	P	13.75
1	p0	107:ALA	C	184:GLY	N	8.24
1	c0	84:UNK	C	87:UNK	N	7.95
1	C7	89:SER	C	95:ARG	N	4.01
1	m2	52:UNK	C	54:UNK	N	3.57
1	m2	23:UNK	C	28:UNK	N	3.35
1	c7	90:ALA	C	95:ARG	N	2.92
1	C1	15:LYS	C	16:GLN	N	1.20
1	l4	222:VAL	C	223:PRO	N	1.20
1	n1	51:GLY	C	52:MET	N	1.20

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	O2	3:SER	C	4:LEU	N	1.19
1	I3	168:LYS	C	169:THR	N	1.14
1	I4	299:ILE	C	300:ARG	N	1.12
1	S4	82:TYR	C	83:PRO	N	1.03

## 6 Fit of model and data ⓘ

### 6.1 Protein, DNA and RNA chains ⓘ

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95<sup>th</sup> percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
1	2	1781/1812 (98%)	0.53	124 (6%) 19 15	60, 89, 120, 149	0
2	S0	206/206 (100%)	1.31	51 (24%) 1 1	93, 99, 105, 107	0
2	s0	206/206 (100%)	0.53	18 (8%) 13 12	77, 83, 89, 90	0
3	S1	214/216 (99%)	0.52	10 (4%) 35 28	95, 106, 113, 113	0
3	s1	216/216 (100%)	0.56	11 (5%) 32 24	70, 75, 81, 84	0
4	S2	217/217 (100%)	1.26	54 (24%) 1 1	81, 88, 96, 99	0
4	s2	217/217 (100%)	0.85	30 (13%) 4 4	67, 73, 79, 81	0
5	S3	223/223 (100%)	1.27	50 (22%) 1 1	85, 96, 110, 115	0
5	s3	223/223 (100%)	1.37	62 (27%) 1 1	91, 102, 113, 114	0
6	S4	260/260 (100%)	0.85	24 (9%) 11 10	75, 88, 91, 93	0
6	s4	260/260 (100%)	0.42	7 (2%) 58 47	59, 73, 78, 80	0
7	S5	206/206 (100%)	1.35	54 (26%) 1 1	97, 105, 111, 113	0
7	s5	206/206 (100%)	0.87	42 (20%) 1 2	90, 95, 101, 103	0
8	S6	226/226 (100%)	0.82	32 (14%) 4 4	62, 76, 96, 101	0
8	s6	218/226 (96%)	0.90	37 (16%) 2 2	55, 63, 82, 86	0
9	S7	184/186 (98%)	0.49	13 (7%) 19 15	92, 102, 108, 109	0
9	s7	186/186 (100%)	0.02	3 (1%) 74 65	75, 90, 101, 104	0
10	S8	188/188 (100%)	1.02	26 (13%) 4 4	72, 78, 92, 95	0
10	s8	188/188 (100%)	0.66	18 (9%) 10 9	57, 68, 89, 95	0
11	S9	185/185 (100%)	1.02	32 (17%) 2 2	81, 89, 99, 103	0
11	s9	185/185 (100%)	0.10	3 (1%) 74 65	63, 74, 82, 84	0
12	C0	83/96 (86%)	0.60	7 (8%) 14 12	94, 100, 105, 107	0
13	C1	146/155 (94%)	1.15	27 (18%) 2 2	75, 79, 85, 89	0
13	c1	146/155 (94%)	0.39	6 (4%) 41 32	62, 67, 81, 92	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
14	C2	119/124 (95%)	1.43	35 (29%) 1 1	111, 116, 118, 119	0
14	c2	119/124 (95%)	1.46	32 (26%) 1 1	133, 142, 148, 149	0
15	C3	150/150 (100%)	0.38	8 (5%) 30 23	80, 88, 92, 94	0
15	c3	150/150 (100%)	-0.01	2 (1%) 79 70	65, 75, 80, 82	0
16	C4	127/128 (99%)	0.34	10 (7%) 15 13	82, 105, 111, 112	0
16	c4	128/128 (100%)	0.78	13 (10%) 9 8	63, 74, 79, 80	0
17	C5	122/135 (90%)	0.43	4 (3%) 50 41	80, 90, 96, 101	0
17	c5	125/135 (92%)	0.29	7 (5%) 28 22	65, 91, 98, 100	0
18	C6	141/142 (99%)	2.04	70 (49%) 0 0	88, 105, 109, 110	0
18	c6	142/142 (100%)	1.40	38 (26%) 1 1	90, 98, 102, 104	0
19	C7	120/120 (100%)	1.42	38 (31%) 1 1	98, 104, 108, 109	0
20	C8	145/145 (100%)	0.56	8 (5%) 29 22	83, 95, 107, 110	0
20	c8	145/145 (100%)	0.36	8 (5%) 29 22	69, 86, 93, 97	0
21	C9	143/143 (100%)	1.25	31 (21%) 1 1	92, 101, 106, 108	0
21	c9	143/143 (100%)	0.42	9 (6%) 23 18	87, 92, 96, 98	0
22	D0	107/110 (97%)	0.95	19 (17%) 2 2	87, 100, 105, 106	0
22	d0	110/110 (100%)	1.87	43 (39%) 0 0	92, 104, 110, 111	0
23	D1	87/87 (100%)	0.79	16 (18%) 2 2	90, 94, 102, 106	0
23	d1	87/87 (100%)	0.54	5 (5%) 27 21	74, 78, 86, 89	0
24	D2	129/129 (100%)	1.23	27 (20%) 1 1	82, 88, 92, 98	0
24	d2	129/129 (100%)	0.22	0 100 100	67, 73, 75, 76	0
25	D3	144/144 (100%)	0.29	5 (3%) 48 38	71, 76, 79, 80	0
25	d3	144/144 (100%)	0.07	2 (1%) 78 68	57, 59, 64, 66	0
26	D4	134/134 (100%)	0.27	3 (2%) 65 55	76, 88, 92, 94	0
26	d4	134/134 (100%)	0.04	4 (2%) 54 43	60, 71, 74, 76	0
27	D5	70/70 (100%)	0.67	10 (14%) 4 4	104, 108, 111, 112	0
27	d5	69/70 (98%)	0.45	5 (7%) 18 15	93, 97, 100, 101	0
28	D6	97/97 (100%)	1.75	38 (39%) 0 0	84, 91, 112, 113	0
28	d6	97/97 (100%)	1.68	34 (35%) 0 0	65, 72, 81, 83	0
29	D7	81/81 (100%)	1.13	14 (17%) 2 2	90, 94, 99, 100	0
29	d7	81/81 (100%)	0.66	4 (4%) 33 25	74, 80, 88, 89	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
30	D8	63/63 (100%)	2.13	34 (53%) 0 0	98, 107, 112, 113	0
30	d8	63/63 (100%)	2.21	33 (52%) 0 0	90, 95, 99, 100	0
31	D9	53/53 (100%)	0.33	2 (3%) 44 36	89, 91, 96, 97	0
31	d9	53/53 (100%)	1.23	14 (26%) 1 1	93, 97, 113, 120	0
32	E0	60/62 (96%)	0.85	8 (13%) 4 5	72, 87, 97, 101	0
32	e0	62/62 (100%)	0.24	5 (8%) 15 12	58, 72, 77, 80	0
33	E1	71/76 (93%)	0.60	8 (11%) 7 7	92, 108, 113, 113	0
33	e1	76/76 (100%)	1.03	16 (21%) 1 1	99, 127, 139, 140	0
34	SR	318/318 (100%)	1.24	78 (24%) 1 1	104, 111, 118, 122	0
35	SM	121/159 (76%)	1.02	18 (14%) 3 3	55, 83, 96, 98	0
36	1	3149/3149 (100%)	0.08	53 (1%) 73 64	31, 49, 82, 154	0
37	3	121/121 (100%)	-0.23	0 100 100	41, 59, 64, 65	0
37	7	121/121 (100%)	-0.30	1 (0%) 87 80	36, 47, 51, 54	0
38	4	158/158 (100%)	-0.09	1 (0%) 90 85	33, 45, 63, 84	0
38	8	158/158 (100%)	-0.05	1 (0%) 90 85	37, 49, 68, 76	0
39	L2	252/252 (100%)	0.24	3 (1%) 81 72	40, 52, 61, 73	0
39	l2	252/252 (100%)	0.08	4 (1%) 74 65	39, 53, 62, 66	0
40	L3	386/386 (100%)	-0.25	2 (0%) 91 88	38, 50, 58, 62	0
40	l3	386/386 (100%)	-0.37	1 (0%) 94 91	32, 39, 47, 58	0
41	L4	361/361 (100%)	-0.35	0 100 100	31, 37, 47, 51	0
41	l4	361/361 (100%)	-0.30	0 100 100	33, 41, 48, 58	0
42	L5	296/296 (100%)	0.56	27 (9%) 11 10	50, 60, 67, 69	0
42	l5	294/296 (99%)	-0.03	3 (1%) 84 76	43, 49, 57, 66	0
43	L6	156/175 (89%)	-0.38	0 100 100	38, 46, 49, 55	0
43	l6	157/175 (89%)	-0.34	0 100 100	40, 46, 49, 52	0
44	L7	222/223 (99%)	-0.16	0 100 100	36, 40, 48, 50	0
44	l7	223/223 (100%)	-0.34	0 100 100	34, 38, 48, 54	0
45	L8	233/233 (100%)	0.20	5 (2%) 67 58	54, 60, 74, 77	0
46	L9	191/191 (100%)	0.20	5 (2%) 59 49	48, 51, 53, 59	0
46	l9	191/191 (100%)	0.12	2 (1%) 84 76	39, 44, 52, 63	0
47	M0	211/220 (95%)	-0.16	0 100 100	39, 48, 61, 66	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
47	m0	213/220 (96%)	0.08	6 (2%) 56 46	36, 42, 57, 67	0
48	M1	169/169 (100%)	0.71	15 (8%) 12 10	57, 67, 73, 76	0
48	m1	169/169 (100%)	-0.30	0 100 100	44, 54, 59, 63	0
49	M3	193/194 (99%)	-0.06	1 (0%) 91 88	33, 46, 59, 74	0
49	m3	194/194 (100%)	-0.11	2 (1%) 84 76	35, 50, 61, 70	0
50	M4	136/137 (99%)	-0.27	2 (1%) 76 67	45, 49, 54, 56	0
50	m4	137/137 (100%)	-0.40	0 100 100	39, 43, 53, 60	0
51	M5	203/203 (100%)	0.04	0 100 100	35, 46, 54, 56	0
51	m5	203/203 (100%)	-0.03	1 (0%) 91 88	38, 50, 57, 59	0
52	M6	197/197 (100%)	-0.17	1 (0%) 91 88	39, 42, 50, 52	0
52	m6	197/197 (100%)	-0.37	0 100 100	32, 36, 49, 50	0
53	M7	183/183 (100%)	0.00	9 (4%) 33 25	38, 43, 58, 62	0
53	m7	155/183 (84%)	-0.37	0 100 100	34, 37, 40, 43	0
54	M8	185/185 (100%)	0.00	0 100 100	36, 44, 54, 61	0
54	m8	185/185 (100%)	-0.05	0 100 100	35, 44, 48, 50	0
55	M9	188/188 (100%)	0.13	7 (3%) 45 36	49, 61, 103, 111	0
55	m9	188/188 (100%)	-0.09	0 100 100	43, 55, 98, 106	0
56	N0	172/172 (100%)	0.58	16 (9%) 11 10	42, 46, 51, 53	0
56	n0	172/172 (100%)	-0.17	1 (0%) 90 85	36, 39, 44, 48	0
57	N1	159/159 (100%)	0.31	4 (2%) 61 50	40, 47, 56, 57	0
57	n1	159/159 (100%)	0.28	1 (0%) 90 85	36, 42, 53, 55	0
58	N2	100/100 (100%)	0.35	6 (6%) 25 19	65, 69, 72, 73	0
58	n2	98/100 (98%)	0.14	2 (2%) 68 59	56, 59, 60, 61	0
59	N3	136/136 (100%)	-0.01	2 (1%) 76 67	43, 49, 52, 54	0
59	n3	136/136 (100%)	-0.04	0 100 100	33, 37, 41, 43	0
60	N4	98/98 (100%)	1.74	31 (31%) 1 1	49, 59, 89, 91	0
61	N5	121/121 (100%)	0.12	1 (0%) 87 80	43, 45, 62, 72	0
61	n5	120/121 (99%)	0.02	1 (0%) 87 80	44, 48, 65, 67	0
62	N6	126/126 (100%)	-0.10	1 (0%) 87 80	35, 41, 44, 45	0
62	n6	126/126 (100%)	-0.25	0 100 100	38, 45, 49, 50	0
63	N7	135/135 (100%)	0.48	7 (5%) 31 24	62, 67, 76, 79	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
63	n7	135/135 (100%)	0.40	6 (4%) 38 29	65, 71, 78, 83	0
64	N8	148/148 (100%)	-0.07	0 100 100	31, 43, 50, 57	0
64	n8	148/148 (100%)	-0.04	1 (0%) 89 82	31, 45, 48, 50	0
65	N9	58/58 (100%)	0.14	0 100 100	36, 49, 66, 71	0
65	n9	58/58 (100%)	0.17	2 (3%) 49 40	34, 45, 52, 53	0
66	O0	97/100 (97%)	0.05	3 (3%) 52 43	60, 64, 70, 71	0
66	o0	100/100 (100%)	0.36	3 (3%) 54 43	61, 66, 73, 75	0
67	O1	109/109 (100%)	0.17	0 100 100	51, 55, 59, 67	0
67	o1	109/109 (100%)	0.08	2 (1%) 71 62	41, 43, 47, 49	0
68	O2	127/127 (100%)	-0.28	0 100 100	32, 39, 41, 43	0
68	o2	127/127 (100%)	-0.26	0 100 100	31, 40, 43, 45	0
69	O3	106/106 (100%)	-0.26	0 100 100	37, 42, 50, 52	0
69	o3	106/106 (100%)	-0.15	0 100 100	34, 40, 50, 51	0
70	O4	112/112 (100%)	0.45	3 (2%) 58 47	47, 60, 70, 73	0
70	o4	112/112 (100%)	0.45	2 (1%) 71 62	46, 62, 70, 72	0
71	O5	119/119 (100%)	-0.07	0 100 100	42, 44, 56, 58	0
71	o5	119/119 (100%)	-0.25	0 100 100	46, 48, 60, 64	0
72	O6	99/99 (100%)	-0.19	2 (2%) 68 59	44, 54, 62, 66	0
72	o6	99/99 (100%)	-0.32	0 100 100	48, 57, 62, 66	0
73	O7	87/87 (100%)	0.02	1 (1%) 82 73	35, 41, 46, 49	0
73	o7	87/87 (100%)	0.14	2 (2%) 64 54	37, 42, 51, 58	0
74	O8	77/77 (100%)	-0.40	0 100 100	57, 60, 66, 66	0
74	o8	77/77 (100%)	0.49	3 (3%) 43 35	59, 63, 66, 68	0
75	O9	50/50 (100%)	-0.03	0 100 100	40, 42, 44, 45	0
75	o9	50/50 (100%)	0.12	0 100 100	40, 44, 46, 49	0
76	Q0	52/52 (100%)	-0.16	1 (1%) 70 60	46, 49, 50, 52	0
76	q0	52/52 (100%)	-0.35	0 100 100	38, 39, 43, 45	0
77	Q1	25/25 (100%)	-0.14	0 100 100	60, 70, 78, 78	0
77	q1	25/25 (100%)	-0.39	0 100 100	49, 56, 59, 60	0
78	Q2	105/105 (100%)	0.56	9 (8%) 13 12	38, 49, 58, 66	0
78	q2	105/105 (100%)	0.56	7 (6%) 21 16	37, 44, 49, 57	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
79	Q3	91/91 (100%)	0.22	2 (2%) 65 55	49, 53, 57, 58	0
79	q3	91/91 (100%)	0.04	2 (2%) 65 55	45, 53, 60, 64	0
80	6	1795/1800 (99%)	0.40	116 (6%) 22 17	46, 75, 111, 134	0
81	c0	79/96 (82%)	1.22	17 (21%) 1 1	105, 116, 121, 122	0
82	c7	117/121 (96%)	0.73	15 (12%) 5 5	86, 94, 99, 100	0
83	sR	318/318 (100%)	1.40	92 (28%) 1 1	90, 107, 111, 114	0
84	sM	63/104 (60%)	0.46	6 (9%) 10 10	45, 78, 89, 91	0
85	5	3150/3150 (100%)	0.08	44 (1%) 78 68	31, 45, 82, 107	0
86	l8	225/231 (97%)	0.18	9 (4%) 42 33	58, 64, 78, 81	0
87	m2	0/150	-	-	-	-
88	n4	135/135 (100%)	0.85	29 (21%) 1 1	37, 62, 81, 82	0
89	p0	120/143 (83%)	1.19	25 (20%) 1 1	78, 91, 98, 104	0
90	p1	0/47	-	-	-	-
90	p2	0/47	-	-	-	-
91	P	2/5 (40%)	-0.07	0 100 100	38, 38, 38, 40	0
91	p	2/5 (40%)	0.80	0 100 100	34, 34, 34, 38	0
All	All	32929/33525 (98%)	0.33	2128 (6%) 22 17	31, 60, 107, 154	0

All (2128) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
60	N4	88	ASP	11.4
1	2	1807	C	11.2
1	2	1805	C	10.2
1	2	1789	A	9.6
60	N4	75	THR	9.5
1	2	1782	C	9.5
1	2	1804	U	9.3
60	N4	70	LYS	8.8
13	C1	147	ALA	8.7
1	2	1795	G	8.6
1	2	1794	G	8.6
80	6	662	U	8.5
7	S5	37	GLN	8.2
60	N4	76	VAL	7.7
7	S5	152	GLY	7.6
80	6	663	U	7.6

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Mol	Chain	Res	Type	RSRZ
1	2	1790	A	7.5
1	2	1806	U	7.5
60	N4	90	ILE	7.4
1	2	1796	C	7.3
5	s3	151	LYS	7.3
13	C1	146	ALA	7.3
4	s2	92	ALA	7.2
14	c2	30	VAL	7.1
36	1	1568	U	7.1
7	s5	37	GLN	7.1
4	s2	90	THR	7.0
7	S5	71	ALA	6.9
83	sR	121	MET	6.9
14	c2	123	VAL	6.9
1	2	1798	A	6.7
1	2	1793	G	6.7
32	E0	53	LYS	6.6
21	C9	5	SER	6.6
14	c2	114	LYS	6.5
1	2	1808	A	6.5
1	2	1788	G	6.5
60	N4	87	LEU	6.5
2	S0	97	PRO	6.5
1	2	698	U	6.4
13	C1	145	ALA	6.4
30	D8	21	SER	6.3
8	s6	169	TYR	6.3
80	6	664	U	6.2
56	N0	1	MET	6.2
83	sR	168	THR	6.2
5	s3	118	ALA	6.2
18	c6	19	VAL	6.2
18	C6	20	ALA	6.1
1	2	1783	U	6.0
60	N4	81	PRO	6.0
5	s3	148	LYS	6.0
80	6	678	A	6.0
80	6	656	G	6.0
47	m0	221	ALA	5.9
1	2	1809	G	5.9
35	SM	88	ARG	5.8
28	D6	94	ASN	5.8

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Mol	Chain	Res	Type	RSRZ
5	s3	153	ALA	5.8
85	5	1567	U	5.8
60	N4	86	SER	5.8
1	2	1800	U	5.7
36	1	1571	A	5.7
80	6	676	G	5.7
32	e0	63	GLN	5.7
60	N4	95	SER	5.6
80	6	668	C	5.6
18	c6	17	THR	5.6
1	2	1792	G	5.6
34	SR	262	VAL	5.6
5	s3	145	ALA	5.6
18	C6	17	THR	5.6
85	5	1569	U	5.6
1	2	1778	U	5.6
5	s3	144	ALA	5.5
6	s4	184	THR	5.5
1	2	1801	C	5.5
35	SM	85	SER	5.5
7	s5	68	ILE	5.5
14	c2	63	VAL	5.5
18	C6	21	HIS	5.5
1	2	697	G	5.4
14	C2	57	ALA	5.4
60	N4	82	ILE	5.4
80	6	658	C	5.4
1	2	1803	A	5.4
22	d0	64	LYS	5.4
5	S3	88	ALA	5.3
16	C4	15	GLY	5.3
22	d0	115	GLU	5.3
60	N4	74	LYS	5.3
8	s6	167	LYS	5.3
60	N4	77	LYS	5.3
80	6	1711	C	5.3
1	2	135	A	5.2
80	6	659	C	5.2
28	D6	49	ALA	5.2
22	d0	100	VAL	5.2
2	S0	98	ILE	5.2
32	E0	54	ARG	5.2

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
36	1	1567	U	5.2
7	S5	153	GLY	5.2
5	S3	148	LYS	5.2
35	SM	22	PRO	5.2
11	S9	181	ALA	5.2
34	SR	81	LEU	5.2
14	c2	136	ILE	5.1
78	Q2	106	PHE	5.1
1	2	1791	G	5.1
88	n4	68	ALA	5.1
83	sR	253	ALA	5.1
2	S0	196	SER	5.1
1	2	696	A	5.1
36	1	1570	U	5.1
83	sR	245	PHE	5.0
1	2	896	G	5.0
1	2	1786	G	5.0
1	2	1787	A	5.0
83	sR	82	SER	5.0
1	2	1799	C	5.0
14	C2	141	SER	5.0
29	D7	49	HIS	5.0
80	6	1700	C	5.0
83	sR	186	PHE	5.0
80	6	675	U	4.9
5	s3	33	GLY	4.9
11	S9	97	LEU	4.9
2	S0	131	GLN	4.9
13	C1	2	SER	4.9
18	C6	66	ARG	4.9
21	C9	6	VAL	4.9
85	5	2539	C	4.9
14	C2	62	LEU	4.9
30	D8	43	ASN	4.9
80	6	1710	U	4.8
9	s7	52	ALA	4.8
4	s2	87	GLN	4.8
28	D6	93	LYS	4.8
18	C6	28	LEU	4.8
33	e1	145	HIS	4.8
78	Q2	102	GLN	4.8
1	2	701	U	4.8

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Mol	Chain	Res	Type	RSRZ
88	n4	83	THR	4.8
30	D8	16	LEU	4.8
85	5	2503	G	4.7
1	2	238	U	4.7
18	C6	11	GLY	4.7
53	M7	166	VAL	4.7
14	c2	29	LYS	4.7
13	C1	72	THR	4.7
28	d6	98	PRO	4.7
7	S5	86	GLN	4.7
18	C6	16	ALA	4.7
83	sR	46	LYS	4.7
80	6	1712	A	4.6
80	6	1800	A	4.6
9	S7	80	GLU	4.6
60	N4	93	ARG	4.6
8	s6	147	LEU	4.6
34	SR	106	HIS	4.6
19	C7	71	PHE	4.6
5	s3	136	VAL	4.6
34	SR	212	ALA	4.5
80	6	1702	A	4.5
60	N4	67	VAL	4.5
5	S3	143	ARG	4.5
28	d6	69	ASN	4.5
18	C6	54	LEU	4.5
36	1	1572	U	4.5
84	sM	23	LYS	4.5
18	C6	70	THR	4.5
30	D8	15	VAL	4.5
83	sR	72	THR	4.5
7	S5	151	GLY	4.5
5	s3	123	VAL	4.5
5	s3	137	VAL	4.5
83	sR	202	LEU	4.5
28	D6	85	ARG	4.5
22	d0	18	GLN	4.5
83	sR	205	SER	4.5
8	S6	170	THR	4.5
36	1	252	U	4.5
4	s2	96	THR	4.5
7	S5	70	VAL	4.5

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
55	M9	186	LYS	4.5
89	p0	3	GLY	4.4
34	SR	196	ASN	4.4
7	S5	150	GLY	4.4
6	S4	54	TYR	4.4
53	M7	167	ARG	4.4
14	c2	124	LYS	4.4
13	c1	3	THR	4.4
88	n4	87	LEU	4.4
30	d8	61	ARG	4.4
7	S5	222	LYS	4.4
4	S2	223	GLY	4.4
1	2	239	C	4.4
60	N4	78	ALA	4.4
4	S2	64	LYS	4.4
2	S0	166	GLY	4.4
7	S5	41	LYS	4.4
34	SR	79	TYR	4.4
18	c6	114	ARG	4.4
60	N4	94	ARG	4.4
14	C2	49	THR	4.3
18	C6	8	GLN	4.3
80	6	1707	A	4.3
88	n4	84	GLY	4.3
18	C6	26	LYS	4.3
30	d8	65	ARG	4.3
30	D8	67	ARG	4.3
80	6	718	U	4.3
14	C2	138	GLU	4.3
21	C9	71	VAL	4.3
36	1	1569	U	4.3
2	S0	199	PRO	4.3
36	1	2539	C	4.3
5	S3	87	TYR	4.3
18	C6	39	VAL	4.3
27	D5	48	ASP	4.3
28	D6	2	PRO	4.3
18	C6	29	ILE	4.3
42	L5	146	LEU	4.3
1	2	1779	C	4.3
83	sR	104	VAL	4.3
5	s3	134	CYS	4.2

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Mol	Chain	Res	Type	RSRZ
18	c6	7	VAL	4.2
5	s3	152	PHE	4.2
28	D6	80	HIS	4.2
83	sR	252	LEU	4.2
26	d4	133	ASN	4.2
14	C2	85	LYS	4.2
34	SR	254	ALA	4.2
5	S3	142	LEU	4.2
80	6	669	G	4.2
24	D2	73	GLY	4.2
28	d6	84	VAL	4.2
80	6	665	U	4.2
5	S3	190	ARG	4.2
33	E1	151	ASN	4.2
1	2	656	G	4.2
13	C1	3	THR	4.2
30	D8	48	VAL	4.2
2	S0	198	MET	4.2
30	d8	67	ARG	4.2
35	SM	89	ARG	4.2
34	SR	284	ALA	4.2
30	D8	44	VAL	4.2
36	1	1259	A	4.2
19	C7	123	ASN	4.1
36	1	1955	U	4.1
5	S3	54	ARG	4.1
11	S9	105	LEU	4.1
1	2	261	U	4.1
19	C7	60	ARG	4.1
83	sR	134	TRP	4.1
7	S5	164	PRO	4.1
36	1	1762	C	4.1
6	s4	183	VAL	4.1
5	s3	176	LEU	4.1
5	s3	208	ILE	4.1
22	d0	121	ASN	4.1
80	6	677	G	4.1
81	c0	22	VAL	4.1
80	6	232	U	4.1
29	D7	38	PRO	4.1
24	D2	85	ASP	4.1
1	2	260	U	4.0

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Mol	Chain	Res	Type	RSRZ
30	D8	45	LYS	4.0
5	s3	150	MET	4.0
31	d9	52	PHE	4.0
1	2	134	U	4.0
23	D1	34	ILE	4.0
60	N4	92	GLU	4.0
22	d0	102	ARG	4.0
80	6	679	U	4.0
20	c8	18	LEU	4.0
34	SR	146	GLY	4.0
80	6	655	G	4.0
32	e0	62	VAL	4.0
83	sR	106	HIS	4.0
16	C4	16	VAL	4.0
18	C6	7	VAL	4.0
80	6	239	C	4.0
83	sR	24	ALA	4.0
80	6	1686	C	4.0
5	S3	149	ALA	4.0
80	6	666	U	4.0
22	d0	57	ARG	3.9
4	S2	86	VAL	3.9
30	d8	26	THR	3.9
7	S5	68	ILE	3.9
89	p0	81	LYS	3.9
28	d6	80	HIS	3.9
18	C6	3	ALA	3.9
60	N4	68	ALA	3.9
29	D7	51	GLN	3.9
81	c0	64	TYR	3.9
28	D6	69	ASN	3.9
7	s5	151	GLY	3.9
30	D8	27	GLN	3.9
36	1	1581	C	3.9
18	c6	20	ALA	3.9
28	D6	90	GLU	3.9
11	S9	95	TYR	3.9
2	S0	18	LEU	3.9
14	C2	32	LEU	3.9
4	s2	64	LYS	3.9
19	C7	38	ILE	3.9
30	d8	43	ASN	3.9

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Mol	Chain	Res	Type	RSRZ
34	SR	59	ARG	3.9
4	s2	84	LYS	3.9
11	S9	96	VAL	3.9
80	6	1693	A	3.9
85	5	1566	A	3.9
13	C1	144	ALA	3.9
18	C6	52	LEU	3.9
85	5	2538	U	3.9
1	2	1812	C	3.9
35	SM	21	PRO	3.9
24	D2	70	ASN	3.9
27	d5	105	THR	3.9
35	SM	110	TRP	3.9
88	n4	65	GLU	3.9
28	d6	45	VAL	3.9
46	l9	191	LEU	3.9
8	S6	149	LYS	3.9
19	C7	86	PRO	3.9
28	D6	98	PRO	3.9
83	sR	180	ALA	3.9
14	c2	105	LYS	3.9
18	C6	96	TYR	3.9
5	s3	135	GLU	3.8
5	S3	139	SER	3.8
14	C2	41	LEU	3.8
33	e1	85	TYR	3.8
1	2	702	U	3.8
2	S0	107	PHE	3.8
14	C2	111	ASN	3.8
88	n4	82	ILE	3.8
28	D6	8	ASN	3.8
56	N0	74	ASN	3.8
83	sR	172	ALA	3.8
60	N4	89	LEU	3.8
11	S9	186	GLU	3.8
30	D8	28	VAL	3.8
88	n4	94	ARG	3.8
58	N2	27	VAL	3.8
28	d6	73	TYR	3.8
33	E1	152	ALA	3.8
8	s6	164	LYS	3.8
11	S9	60	LEU	3.8

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Mol	Chain	Res	Type	RSRZ
30	d8	15	VAL	3.8
80	6	719	U	3.8
7	s5	62	VAL	3.8
83	sR	303	ALA	3.8
11	S9	5	PRO	3.8
1	2	143	G	3.8
29	D7	33	LEU	3.8
58	N2	89	LEU	3.8
78	Q2	104	LEU	3.8
31	d9	56	ARG	3.8
18	C6	6	SER	3.8
80	6	1694	A	3.8
1	2	1781	U	3.8
28	D6	55	GLU	3.8
22	D0	92	ASP	3.8
53	M7	174	GLY	3.8
1	2	1780	A	3.8
34	SR	35	SER	3.8
34	SR	36	ALA	3.8
34	SR	45	TRP	3.7
60	N4	84	GLY	3.7
7	s5	165	LEU	3.7
18	C6	57	LEU	3.7
7	S5	66	GLN	3.7
19	C7	8	THR	3.7
80	6	661	A	3.7
5	S3	150	MET	3.7
22	d0	67	THR	3.7
28	D6	52	ASP	3.7
14	C2	112	ALA	3.7
1	2	1797	A	3.7
18	C6	95	LYS	3.7
4	s2	97	ARG	3.7
1	2	1271	G	3.7
34	SR	44	SER	3.7
8	s6	170	THR	3.7
18	C6	14	LYS	3.7
80	6	1799	U	3.7
1	2	699	C	3.7
22	d0	93	LEU	3.7
78	Q2	99	GLN	3.7
20	c8	146	ALA	3.7

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Mol	Chain	Res	Type	RSRZ
83	sR	83	ALA	3.7
22	d0	114	VAL	3.7
8	s6	158	ILE	3.7
83	sR	123	ILE	3.7
21	C9	141	GLU	3.7
34	SR	115	ILE	3.7
83	sR	36	ALA	3.7
14	C2	86	VAL	3.7
19	C7	85	VAL	3.7
28	D6	44	ILE	3.7
17	c5	50	THR	3.7
80	6	1699	G	3.7
5	S3	116	ARG	3.7
5	S3	153	ALA	3.7
66	o0	105	ALA	3.7
31	d9	4	GLU	3.7
60	N4	69	LYS	3.7
18	C6	51	PRO	3.7
5	s3	209	ILE	3.6
32	E0	49	LEU	3.6
83	sR	10	ARG	3.6
4	s2	88	LYS	3.6
17	c5	85	ILE	3.6
17	c5	132	GLY	3.6
21	C9	4	VAL	3.6
2	S0	201	LEU	3.6
28	d6	49	ALA	3.6
4	s2	91	ARG	3.6
30	d8	9	LEU	3.6
88	n4	85	ALA	3.6
19	C7	59	LYS	3.6
19	C7	53	TYR	3.6
81	c0	71	GLU	3.6
5	s3	187	LYS	3.6
30	d8	55	VAL	3.6
5	s3	195	SER	3.6
8	s6	33	GLY	3.6
18	C6	55	VAL	3.6
2	S0	203	PHE	3.6
7	s5	152	GLY	3.6
35	SM	84	LYS	3.6
13	c1	2	SER	3.6

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Mol	Chain	Res	Type	RSRZ
85	5	1349	G	3.6
22	d0	81	THR	3.6
19	C7	24	LEU	3.6
34	SR	7	LEU	3.6
80	6	1059	U	3.6
11	S9	184	SER	3.6
23	D1	65	SER	3.6
1	2	136	C	3.6
5	S3	50	ILE	3.6
83	sR	183	LEU	3.6
28	D6	92	ARG	3.6
18	C6	64	ASP	3.6
4	S2	97	ARG	3.5
5	S3	184	ILE	3.5
5	s3	114	ALA	3.5
18	C6	44	LEU	3.5
30	d8	56	LEU	3.5
1	2	194	U	3.5
80	6	240	U	3.5
2	S0	28	ASN	3.5
8	S6	77	LEU	3.5
88	n4	66	GLU	3.5
4	s2	208	GLU	3.5
5	s3	159	HIS	3.5
13	c1	5	LEU	3.5
24	D2	37	PHE	3.5
7	s5	43	PHE	3.5
18	c6	29	ILE	3.5
88	n4	67	VAL	3.5
21	C9	2	PRO	3.5
18	c6	11	GLY	3.5
30	d8	27	GLN	3.5
36	1	1579	C	3.5
83	sR	55	GLY	3.5
80	6	1687	U	3.5
34	SR	2	ALA	3.5
88	n4	95	SER	3.5
60	N4	98	PRO	3.5
81	c0	25	LYS	3.5
18	C6	116	LEU	3.5
18	c6	36	ILE	3.5
8	s6	131	LYS	3.5

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Mol	Chain	Res	Type	RSRZ
6	s4	124	GLY	3.5
7	S5	161	ASP	3.5
1	2	131	C	3.5
1	2	1664	A	3.5
4	S2	66	PHE	3.5
22	D0	87	HIS	3.5
4	S2	190	LEU	3.5
11	S9	185	GLY	3.5
5	s3	157	LEU	3.5
33	e1	95	HIS	3.5
30	d8	63	ALA	3.5
35	SM	105	LYS	3.5
88	n4	90	ILE	3.5
1	2	1802	C	3.5
2	S0	138	TYR	3.5
4	S2	90	THR	3.5
5	S3	217	ILE	3.5
80	6	667	U	3.5
30	D8	62	GLU	3.5
4	S2	151	PRO	3.5
4	S2	154	LEU	3.5
16	c4	83	ILE	3.5
28	D6	95	ARG	3.5
14	C2	26	ASP	3.5
80	6	794	U	3.5
5	s3	185	LYS	3.5
4	s2	95	ARG	3.5
8	s6	157	VAL	3.5
14	C2	88	LEU	3.5
21	C9	105	LEU	3.5
30	D8	26	THR	3.5
6	S4	123	LEU	3.4
34	SR	252	LEU	3.4
42	L5	131	LEU	3.4
85	5	1562	C	3.4
8	S6	78	THR	3.4
53	M7	161	ALA	3.4
4	S2	145	GLY	3.4
5	S3	37	VAL	3.4
88	n4	79	GLN	3.4
46	l9	190	ASP	3.4
85	5	252	U	3.4

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Mol	Chain	Res	Type	RSRZ
23	D1	23	ILE	3.4
10	S8	2	GLY	3.4
18	C6	49	TYR	3.4
11	s9	184	SER	3.4
80	6	1708	U	3.4
4	s2	85	PRO	3.4
7	S5	69	PHE	3.4
7	s5	122	ASN	3.4
6	s4	146	THR	3.4
8	s6	168	THR	3.4
34	SR	23	LEU	3.4
17	C5	13	LYS	3.4
82	c7	42	GLN	3.4
8	S6	180	THR	3.4
18	C6	67	VAL	3.4
4	S2	57	PHE	3.4
31	d9	37	ASN	3.4
8	S6	175	ILE	3.4
18	c6	88	GLY	3.4
19	C7	7	LYS	3.4
33	e1	89	LYS	3.4
60	N4	85	ALA	3.4
83	sR	244	ALA	3.4
5	S3	132	LYS	3.4
10	S8	37	LYS	3.4
28	D6	86	VAL	3.4
22	d0	99	ILE	3.4
28	D6	79	ILE	3.4
10	s8	46	VAL	3.4
60	N4	73	ARG	3.4
34	SR	263	PHE	3.4
10	S8	167	ALA	3.4
73	o7	87	SER	3.4
80	6	673	A	3.4
81	c0	23	ALA	3.4
1	2	700	C	3.4
48	M1	60	ARG	3.4
22	d0	19	ILE	3.3
18	C6	30	LYS	3.3
30	d8	5	THR	3.3
19	C7	80	ARG	3.3
89	p0	187	VAL	3.3

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
30	D8	9	LEU	3.3
28	D6	96	ALA	3.3
83	sR	92	TRP	3.3
18	C6	56	GLY	3.3
13	C1	92	HIS	3.3
22	D0	93	LEU	3.3
7	s5	84	LYS	3.3
18	C6	92	TYR	3.3
14	c2	28	LEU	3.3
17	C5	50	THR	3.3
22	d0	107	THR	3.3
85	5	1570	U	3.3
4	s2	93	GLY	3.3
36	1	1764	U	3.3
18	c6	37	THR	3.3
5	s3	147	ALA	3.3
34	SR	221	MET	3.3
5	s3	143	ARG	3.3
13	C1	59	PRO	3.3
36	1	1952	G	3.3
39	L2	72	ARG	3.3
14	c2	121	VAL	3.3
29	D7	47	PHE	3.3
80	6	1426	C	3.3
18	C6	88	GLY	3.3
32	E0	55	ARG	3.3
15	C3	61	THR	3.3
60	N4	83	THR	3.3
8	s6	161	GLU	3.3
14	C2	80	ASN	3.3
81	c0	78	GLU	3.3
18	C6	105	LEU	3.3
85	5	1103	A	3.3
80	6	235	G	3.3
18	C6	93	HIS	3.3
34	SR	236	ALA	3.3
13	C1	143	SER	3.3
1	2	1784	U	3.3
34	SR	43	ILE	3.3
28	D6	81	ALA	3.3
1	2	712	G	3.3
60	N4	66	GLU	3.3

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Mol	Chain	Res	Type	RSRZ
83	sR	107	LYS	3.2
84	sM	28	SER	3.2
18	C6	117	LEU	3.2
34	SR	99	THR	3.2
82	c7	25	THR	3.2
22	d0	85	ARG	3.2
2	S0	49	ASN	3.2
56	N0	76	GLY	3.2
14	C2	78	LEU	3.2
4	S2	224	PHE	3.2
7	S5	149	VAL	3.2
89	p0	31	ASP	3.2
4	S2	76	LEU	3.2
80	6	652	G	3.2
29	D7	75	GLU	3.2
34	SR	211	ILE	3.2
7	S5	96	SER	3.2
18	c6	80	ALA	3.2
5	S3	135	GLU	3.2
85	5	1574	C	3.2
8	s6	116	LYS	3.2
22	d0	34	LEU	3.2
18	c6	3	ALA	3.2
5	S3	221	SER	3.2
6	S4	199	GLU	3.2
7	S5	77	TYR	3.2
53	M7	160	ALA	3.2
80	6	754	A	3.2
19	C7	70	SER	3.2
88	n4	92	GLU	3.2
2	S0	104	PRO	3.2
2	S0	152	PRO	3.2
12	C0	40	LEU	3.2
18	c6	68	ARG	3.2
34	SR	285	ALA	3.2
36	1	2205	U	3.2
5	S3	22	ASN	3.2
8	S6	140	ASN	3.2
11	S9	3	ARG	3.2
22	D0	121	ASN	3.2
4	S2	215	PHE	3.2
80	6	506	A	3.2

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Mol	Chain	Res	Type	RSRZ
83	sR	66	HIS	3.2
14	c2	40	GLY	3.2
2	s0	149	LEU	3.2
83	sR	116	ASP	3.2
4	s2	86	VAL	3.2
83	sR	25	THR	3.2
7	S5	91	GLU	3.2
88	n4	93	ARG	3.2
83	sR	17	ASN	3.2
80	6	75	U	3.2
7	S5	94	THR	3.2
83	sR	125	GLY	3.2
7	S5	20	PHE	3.2
6	S4	124	GLY	3.2
19	C7	18	GLU	3.2
34	SR	32	LEU	3.2
85	5	1581	C	3.2
30	d8	17	GLY	3.2
88	n4	81	PRO	3.2
2	S0	22	THR	3.2
3	s1	114	VAL	3.2
1	2	776	A	3.1
14	c2	64	SER	3.1
21	C9	9	VAL	3.1
83	sR	310	ILE	3.1
18	C6	65	ILE	3.1
5	S3	216	PRO	3.1
21	C9	72	GLY	3.1
28	D6	11	ASN	3.1
36	1	3275	U	3.1
6	S4	208	VAL	3.1
4	S2	222	TYR	3.1
21	C9	132	LEU	3.1
4	S2	144	TRP	3.1
14	c2	115	VAL	3.1
18	C6	50	GLU	3.1
42	L5	130	GLU	3.1
27	d5	87	GLY	3.1
28	d6	44	ILE	3.1
1	2	1667	U	3.1
18	C6	123	ARG	3.1
19	C7	74	GLN	3.1

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Mol	Chain	Res	Type	RSRZ
30	d8	7	VAL	3.1
18	c6	44	LEU	3.1
89	p0	86	PHE	3.1
30	d8	64	ARG	3.1
55	M9	181	ARG	3.1
1	2	777	U	3.1
10	S8	123	LYS	3.1
80	6	229	U	3.1
10	S8	148	ALA	3.1
80	6	1692	G	3.1
83	sR	302	PHE	3.1
7	S5	181	GLU	3.1
3	s1	52	THR	3.1
7	S5	25	LEU	3.1
7	s5	38	THR	3.1
17	c5	104	GLN	3.1
85	5	1571	A	3.1
18	c6	51	PRO	3.1
74	o8	73	LEU	3.1
24	D2	53	ILE	3.1
2	S0	205	ARG	3.1
4	S2	95	ARG	3.1
34	SR	266	ASP	3.1
83	sR	294	TRP	3.1
22	d0	58	LEU	3.1
22	d0	87	HIS	3.1
22	d0	98	GLN	3.1
80	6	660	G	3.1
28	D6	91	ASP	3.1
1	2	493	U	3.1
2	S0	164	ASN	3.1
4	S2	158	THR	3.1
19	C7	65	PRO	3.1
80	6	1420	C	3.1
6	S4	22	LYS	3.1
21	C9	119	LYS	3.1
1	2	1668	G	3.1
1	2	1700	G	3.1
7	S5	60	ASP	3.1
11	S9	94	ASP	3.1
82	c7	57	LEU	3.1
36	1	1580	A	3.1

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Mol	Chain	Res	Type	RSRZ
32	e0	51	ASN	3.1
9	s7	93	LEU	3.1
7	S5	137	ILE	3.1
24	D2	33	VAL	3.1
48	M1	122	ILE	3.1
83	sR	309	VAL	3.0
24	D2	71	LYS	3.0
18	C6	12	LYS	3.0
63	n7	11	ALA	3.0
3	S1	47	LEU	3.0
14	C2	82	PRO	3.0
80	6	194	U	3.0
80	6	1698	G	3.0
26	D4	58	PHE	3.0
29	D7	67	THR	3.0
85	5	1555	U	3.0
28	d6	46	GLU	3.0
40	l3	387	LEU	3.0
33	E1	87	THR	3.0
18	C6	112	TYR	3.0
85	5	1352	A	3.0
7	s5	34	GLN	3.0
32	E0	45	VAL	3.0
42	L5	127	GLY	3.0
83	sR	105	GLY	3.0
4	S2	236	PRO	3.0
23	D1	10	GLU	3.0
8	S6	162	VAL	3.0
22	d0	113	ASP	3.0
83	sR	129	LYS	3.0
5	S3	183	GLY	3.0
16	c4	101	ALA	3.0
18	C6	121	SER	3.0
18	c6	34	SER	3.0
34	SR	253	ALA	3.0
7	S5	129	PRO	3.0
10	s8	200	LYS	3.0
70	O4	21	LYS	3.0
85	5	2506	U	3.0
5	s3	188	ILE	3.0
22	d0	22	ILE	3.0
60	N4	91	LYS	3.0

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Mol	Chain	Res	Type	RSRZ
34	SR	33	LEU	3.0
56	N0	134	ASP	3.0
13	C1	68	GLY	3.0
36	1	2522	G	3.0
37	7	73	C	3.0
80	6	654	C	3.0
30	D8	41	VAL	3.0
7	s5	82	PHE	3.0
33	E1	116	LYS	3.0
16	c4	48	VAL	3.0
19	C7	41	ILE	3.0
30	d8	19	THR	3.0
34	SR	130	THR	3.0
42	L5	126	GLU	3.0
1	2	1282	G	3.0
80	6	1696	G	3.0
24	D2	129	VAL	3.0
80	6	1491	U	3.0
88	n4	99	GLU	3.0
2	S0	78	SER	3.0
15	C3	13	SER	3.0
30	d8	59	SER	3.0
14	c2	126	TRP	3.0
31	d9	16	LYS	3.0
83	sR	127	ARG	3.0
55	M9	185	LEU	3.0
83	sR	61	PHE	3.0
1	2	183	U	3.0
16	c4	112	ILE	3.0
34	SR	178	VAL	3.0
2	S0	206	ASP	3.0
14	c2	107	ASP	3.0
36	1	1547	G	3.0
36	1	1576	G	3.0
36	1	1577	G	3.0
63	n7	135	ARG	3.0
5	S3	44	THR	3.0
28	D6	41	ILE	3.0
83	sR	122	ILE	3.0
10	S8	21	PHE	3.0
7	S5	154	ALA	2.9
34	SR	60	SER	2.9

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Mol	Chain	Res	Type	RSRZ
48	M1	27	GLY	2.9
82	c7	3	ARG	2.9
30	D8	30	VAL	2.9
34	SR	69	GLN	2.9
1	2	942	U	2.9
30	D8	31	GLU	2.9
80	6	1058	U	2.9
83	sR	88	THR	2.9
16	c4	41	ARG	2.9
7	s5	48	PHE	2.9
14	c2	26	ASP	2.9
14	c2	102	GLY	2.9
59	N3	5	GLY	2.9
28	d6	70	LYS	2.9
83	sR	81	LEU	2.9
5	S3	206	VAL	2.9
13	c1	146	ALA	2.9
2	s0	24	LEU	2.9
20	c8	22	VAL	2.9
18	c6	8	GLN	2.9
5	s3	189	MET	2.9
36	1	1349	G	2.9
83	sR	32	LEU	2.9
85	5	1268	G	2.9
30	D8	47	PRO	2.9
14	c2	34	THR	2.9
21	C9	104	VAL	2.9
34	SR	117	LYS	2.9
31	d9	5	ASN	2.9
32	E0	46	ASN	2.9
34	SR	308	ASN	2.9
34	SR	213	SER	2.9
16	c4	135	ARG	2.9
83	sR	311	ARG	2.9
6	S4	105	VAL	2.9
7	S5	156	ARG	2.9
3	S1	92	GLN	2.9
23	d1	82	VAL	2.9
30	D8	25	VAL	2.9
82	c7	66	VAL	2.9
3	s1	152	ARG	2.9
5	s3	11	LEU	2.9

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Mol	Chain	Res	Type	RSRZ
31	d9	34	TYR	2.9
80	6	1709	C	2.9
4	S2	164	SER	2.9
24	D2	27	ILE	2.9
85	5	2505	U	2.9
4	s2	63	VAL	2.9
30	D8	19	THR	2.9
24	D2	104	LEU	2.9
80	6	1713	G	2.9
27	D5	60	VAL	2.9
4	S2	94	GLN	2.9
83	sR	62	LYS	2.9
4	S2	156	THR	2.9
34	SR	102	ARG	2.9
1	2	506	A	2.9
2	s0	156	VAL	2.9
8	S6	157	VAL	2.9
5	s3	146	ARG	2.9
28	d6	10	ARG	2.9
16	c4	59	ALA	2.9
36	1	1573	G	2.9
1	2	1665	U	2.9
28	D6	97	PRO	2.9
85	5	1582	C	2.9
83	sR	124	SER	2.9
83	sR	169	ILE	2.9
85	5	1580	A	2.9
14	C2	83	GLU	2.9
73	O7	84	SER	2.9
16	c4	60	ALA	2.9
7	s5	156	ARG	2.8
21	C9	83	ALA	2.8
29	d7	53	ALA	2.8
30	d8	10	ALA	2.8
8	S6	168	THR	2.8
19	C7	101	ASN	2.8
28	d6	94	ASN	2.8
42	L5	162	ALA	2.8
56	N0	2	ALA	2.8
80	6	1193	A	2.8
19	C7	58	MET	2.8
4	S2	161	LYS	2.8

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Mol	Chain	Res	Type	RSRZ
85	5	1568	U	2.8
4	S2	155	ALA	2.8
9	S7	74	GLN	2.8
24	D2	39	GLN	2.8
34	SR	237	GLN	2.8
21	C9	108	LEU	2.8
7	s5	159	ALA	2.8
18	C6	90	VAL	2.8
28	D6	5	ARG	2.8
28	D6	40	ALA	2.8
21	C9	35	ASP	2.8
11	S9	2	PRO	2.8
17	C5	10	ARG	2.8
19	C7	105	GLN	2.8
20	c8	71	GLN	2.8
22	d0	101	LYS	2.8
53	M7	162	GLU	2.8
83	sR	150	TRP	2.8
5	s3	158	ILE	2.8
30	d8	13	ILE	2.8
36	1	3287	U	2.8
34	SR	114	ASP	2.8
81	c0	79	TYR	2.8
11	s9	181	ALA	2.8
16	c4	97	GLY	2.8
2	S0	170	ILE	2.8
10	S8	72	ILE	2.8
18	C6	48	VAL	2.8
33	e1	102	VAL	2.8
2	s0	25	GLY	2.8
22	D0	101	LYS	2.8
33	e1	77	GLY	2.8
20	C8	17	LEU	2.8
46	L9	44	THR	2.8
80	6	1695	G	2.8
18	c6	81	ILE	2.8
6	S4	77	ARG	2.8
18	c6	142	TYR	2.8
19	C7	67	ARG	2.8
4	S2	249	ALA	2.8
6	S4	134	LYS	2.8
30	D8	20	GLY	2.8

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Mol	Chain	Res	Type	RSRZ
33	e1	94	LYS	2.8
1	2	491	C	2.8
1	2	1061	C	2.8
20	c8	17	LEU	2.8
80	6	1796	C	2.8
7	s5	44	ASN	2.8
22	D0	84	MET	2.8
7	S5	223	SER	2.8
28	d6	76	SER	2.8
4	s2	99	LYS	2.8
83	sR	132	LYS	2.8
2	S0	80	THR	2.8
4	s2	94	GLN	2.8
5	S3	137	VAL	2.8
8	S6	179	VAL	2.8
14	c2	143	GLN	2.8
28	D6	3	LYS	2.8
82	c7	53	TYR	2.8
1	2	132	U	2.8
30	D8	42	ARG	2.8
19	C7	126	ALA	2.8
20	C8	10	SER	2.8
21	C9	41	SER	2.8
33	e1	146	SER	2.8
4	S2	85	PRO	2.8
2	S0	101	ARG	2.8
2	s0	41	ARG	2.8
2	s0	101	ARG	2.8
5	S3	75	LYS	2.8
5	s3	120	TYR	2.8
36	1	1578	C	2.8
80	6	653	C	2.8
80	6	1398	U	2.8
6	S4	65	LEU	2.8
58	n2	14	THR	2.8
15	c3	14	SER	2.7
5	s3	173	ARG	2.7
7	s5	29	ILE	2.7
22	D0	20	ILE	2.7
53	M7	163	LYS	2.7
88	n4	88	ASP	2.7
7	S5	165	LEU	2.7

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Mol	Chain	Res	Type	RSRZ
39	L2	71	LEU	2.7
83	sR	214	ALA	2.7
4	S2	88	LYS	2.7
8	s6	166	GLU	2.7
36	1	1563	C	2.7
24	D2	46	TYR	2.7
14	C2	58	LEU	2.7
28	D6	89	ARG	2.7
60	N4	65	GLU	2.7
80	6	238	U	2.7
4	S2	89	GLN	2.7
4	S2	188	LEU	2.7
34	SR	181	TRP	2.7
83	sR	212	ALA	2.7
7	S5	83	ARG	2.7
11	S9	113	VAL	2.7
30	d8	29	ARG	2.7
30	d8	53	ILE	2.7
89	p0	188	VAL	2.7
10	s8	116	HIS	2.7
88	n4	89	LEU	2.7
2	s0	98	ILE	2.7
85	5	249	U	2.7
27	d5	102	THR	2.7
59	N3	4	ASN	2.7
20	C8	22	VAL	2.7
22	D0	69	LYS	2.7
82	c7	67	ARG	2.7
36	1	1217	A	2.7
18	C6	60	PHE	2.7
28	d6	57	SER	2.7
28	D6	6	ALA	2.7
28	d6	3	LYS	2.7
80	6	657	U	2.7
82	c7	56	HIS	2.7
2	s0	170	ILE	2.7
34	SR	19	TRP	2.7
3	s1	96	LEU	2.7
5	s3	191	ASP	2.7
9	S7	153	LEU	2.7
89	p0	192	ASP	2.7
1	2	723	A	2.7

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Mol	Chain	Res	Type	RSRZ
10	S8	103	GLN	2.7
7	S5	52	GLU	2.7
29	d7	57	GLU	2.7
16	C4	41	ARG	2.7
10	s8	36	THR	2.7
48	M1	66	ALA	2.7
34	SR	73	LEU	2.7
40	L3	387	LEU	2.7
78	Q2	92	GLU	2.7
83	sR	103	PHE	2.7
21	c9	80	TYR	2.7
18	c6	4	VAL	2.7
30	D8	17	GLY	2.7
80	6	260	U	2.7
83	sR	126	SER	2.7
83	sR	213	SER	2.7
7	s5	83	ARG	2.7
14	C2	68	GLU	2.7
14	c2	56	GLU	2.7
20	C8	40	ARG	2.7
27	D5	94	LYS	2.7
33	e1	90	LYS	2.7
19	C7	69	ILE	2.7
30	D8	24	GLY	2.7
22	D0	81	THR	2.7
29	D7	30	SER	2.7
23	d1	87	ARG	2.7
29	d7	24	LEU	2.7
42	L5	92	LEU	2.7
78	q2	100	LYS	2.7
5	s3	186	VAL	2.7
33	e1	148	TYR	2.7
7	S5	75	GLY	2.7
28	D6	56	ALA	2.7
5	S3	173	ARG	2.7
8	S6	143	LYS	2.7
18	C6	143	ARG	2.7
20	c8	100	THR	2.7
65	n9	25	LYS	2.7
5	S3	189	MET	2.7
16	c4	28	VAL	2.7
21	C9	37	VAL	2.7

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Mol	Chain	Res	Type	RSRZ
19	C7	68	GLY	2.7
35	SM	90	ALA	2.7
38	4	158	U	2.7
66	O0	105	ALA	2.7
80	6	1191	U	2.7
7	S5	84	LYS	2.7
31	d9	30	LEU	2.7
84	sM	85	SER	2.7
35	SM	87	THR	2.7
35	SM	106	VAL	2.7
6	s4	185	GLY	2.7
8	S6	139	ASN	2.7
28	d6	66	LYS	2.7
1	2	1602	C	2.7
80	6	1397	U	2.7
4	S2	77	GLN	2.7
1	2	695	G	2.7
8	s6	143	LYS	2.7
19	C7	14	LYS	2.7
8	s6	88	ARG	2.6
58	N2	94	ARG	2.6
35	SM	54	PRO	2.6
24	D2	55	ASP	2.6
2	S0	25	GLY	2.6
23	D1	19	ALA	2.6
6	S4	44	LEU	2.6
17	c5	127	ARG	2.6
42	L5	185	PHE	2.6
80	6	1390	U	2.6
2	s0	97	PRO	2.6
4	S2	138	PRO	2.6
2	S0	15	GLN	2.6
6	S4	88	ASP	2.6
1	2	713	G	2.6
5	S3	124	ARG	2.6
8	s6	50	PHE	2.6
14	C2	42	ALA	2.6
80	6	1228	G	2.6
2	S0	21	ASN	2.6
20	c8	67	GLU	2.6
22	d0	36	ASN	2.6
1	2	1289	C	2.6

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
22	d0	30	LYS	2.6
5	s3	131	ALA	2.6
25	D3	106	GLY	2.6
30	D8	10	ALA	2.6
11	S9	101	VAL	2.6
4	s2	82	ASN	2.6
5	s3	115	ILE	2.6
9	S7	108	GLN	2.6
27	D5	98	GLN	2.6
34	SR	24	ALA	2.6
36	1	3288	G	2.6
80	6	714	G	2.6
1	2	1297	U	2.6
89	p0	24	SER	2.6
22	d0	51	VAL	2.6
28	d6	19	LYS	2.6
28	d6	93	LYS	2.6
86	l8	161	GLU	2.6
25	D3	6	PRO	2.6
7	s5	86	GLN	2.6
34	SR	34	LEU	2.6
83	sR	210	LEU	2.6
19	C7	13	SER	2.6
60	N4	72	SER	2.6
18	C6	9	THR	2.6
1	2	708	U	2.6
19	C7	28	PHE	2.6
85	5	547	G	2.6
8	S6	146	GLY	2.6
27	D5	65	LEU	2.6
28	d6	64	LEU	2.6
14	c2	96	GLN	2.6
2	S0	128	SER	2.6
1	2	1383	A	2.6
2	S0	197	ILE	2.6
36	1	1352	A	2.6
10	S8	65	PHE	2.6
32	E0	48	THR	2.6
7	S5	22	PRO	2.6
7	s5	58	LEU	2.6
18	C6	5	PRO	2.6
20	C8	39	GLY	2.6

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Mol	Chain	Res	Type	RSRZ
18	C6	77	GLN	2.6
36	1	3156	U	2.6
6	S4	41	SER	2.6
7	S5	138	THR	2.6
20	c8	15	LEU	2.6
7	S5	133	VAL	2.6
33	e1	80	ARG	2.6
1	2	1380	U	2.6
29	D7	37	CYS	2.6
11	S9	180	LYS	2.6
21	c9	17	ALA	2.6
30	d8	12	VAL	2.6
10	S8	22	ARG	2.6
12	C0	34	GLU	2.6
14	C2	126	TRP	2.6
18	C6	85	ILE	2.6
11	S9	148	VAL	2.6
21	C9	114	VAL	2.6
42	L5	203	HIS	2.6
14	c2	142	GLN	2.6
24	D2	28	ARG	2.6
46	L9	9	GLN	2.6
80	6	727	U	2.6
85	5	1572	U	2.6
23	D1	8	LEU	2.6
83	sR	67	ILE	2.6
34	SR	121	MET	2.6
27	d5	60	VAL	2.6
83	sR	227	ALA	2.6
34	SR	206	PRO	2.6
7	s5	69	PHE	2.6
48	M1	123	PHE	2.6
16	C4	102	LEU	2.6
1	2	133	U	2.6
74	o8	26	LYS	2.6
14	C2	28	LEU	2.6
6	S4	70	VAL	2.6
24	D2	74	VAL	2.6
45	L8	122	LYS	2.6
70	o4	21	LYS	2.6
79	q3	66	GLY	2.6
1	2	1810	A	2.6

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Mol	Chain	Res	Type	RSRZ
7	s5	30	PRO	2.6
5	S3	185	LYS	2.6
8	s6	52	ILE	2.6
4	s2	101	VAL	2.6
78	Q2	22	GLN	2.6
2	S0	127	ARG	2.6
56	N0	75	PHE	2.6
5	S3	141	LYS	2.5
10	S8	165	LEU	2.5
24	D2	125	ILE	2.5
30	D8	56	LEU	2.5
42	l5	290	ILE	2.5
57	n1	86	GLU	2.5
86	l8	245	LYS	2.5
13	C1	134	THR	2.5
14	C2	91	VAL	2.5
19	C7	54	THR	2.5
81	c0	21	VAL	2.5
8	S6	79	LYS	2.5
14	C2	50	LYS	2.5
30	d8	16	LEU	2.5
78	q2	15	LYS	2.5
19	C7	66	VAL	2.5
33	e1	98	VAL	2.5
64	n8	44	ASN	2.5
8	S6	186	ARG	2.5
10	S8	56	ARG	2.5
21	C9	7	ARG	2.5
21	C9	50	ALA	2.5
50	M4	6	ILE	2.5
42	L5	144	VAL	2.5
83	sR	315	VAL	2.5
8	S6	1	MET	2.5
14	C2	51	ALA	2.5
10	S8	104	ILE	2.5
16	c4	102	LEU	2.5
47	m0	184	LYS	2.5
16	C4	11	SER	2.5
55	M9	187	GLU	2.5
7	S5	35	GLN	2.5
10	s8	177	GLY	2.5
14	C2	84	ASN	2.5

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Mol	Chain	Res	Type	RSRZ
20	C8	44	ASN	2.5
26	D4	22	GLN	2.5
83	sR	28	GLY	2.5
3	S1	25	THR	2.5
8	s6	78	THR	2.5
21	C9	84	LYS	2.5
28	d6	90	GLU	2.5
36	1	1350	A	2.5
80	6	1284	C	2.5
81	c0	63	TYR	2.5
83	sR	108	SER	2.5
1	2	703	G	2.5
13	C1	141	LYS	2.5
25	D3	114	LYS	2.5
32	E0	52	GLY	2.5
80	6	1199	G	2.5
8	S6	147	LEU	2.5
4	s2	146	THR	2.5
22	d0	20	ILE	2.5
46	L9	191	LEU	2.5
83	sR	301	LEU	2.5
7	s5	81	ARG	2.5
23	D1	53	TYR	2.5
86	l8	246	MET	2.5
2	S0	155	PHE	2.5
7	s5	164	PRO	2.5
23	D1	54	ALA	2.5
34	SR	180	ALA	2.5
80	6	172	C	2.5
2	S0	129	ASP	2.5
13	C1	140	VAL	2.5
18	c6	48	VAL	2.5
21	C9	66	TYR	2.5
10	S8	181	GLY	2.5
10	s8	57	ALA	2.5
14	c2	65	SER	2.5
48	M1	49	LYS	2.5
89	p0	107	ALA	2.5
28	D6	84	VAL	2.5
34	SR	52	GLN	2.5
24	D2	82	LYS	2.5
30	d8	8	THR	2.5

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Mol	Chain	Res	Type	RSRZ
88	n4	69	LYS	2.5
15	c3	15	ALA	2.5
38	8	80	A	2.5
66	o0	67	VAL	2.5
4	S2	59	HIS	2.5
18	c6	49	TYR	2.5
22	d0	80	GLU	2.5
1	2	558	U	2.5
21	C9	67	MET	2.5
2	S0	76	ILE	2.5
5	s3	142	LEU	2.5
14	c2	59	LEU	2.5
88	n4	96	LEU	2.5
8	S6	74	LYS	2.5
18	c6	93	HIS	2.5
33	e1	81	LYS	2.5
62	N6	127	GLU	2.5
82	c7	35	CYS	2.5
21	c9	32	GLY	2.5
33	E1	115	THR	2.5
39	L2	79	ASN	2.5
8	S6	73	ILE	2.5
24	D2	89	TRP	2.5
1	2	704	U	2.5
1	2	1290	U	2.5
45	L8	121	SER	2.5
80	6	1688	U	2.5
83	sR	187	GLN	2.5
18	C6	58	ASP	2.5
28	d6	63	ALA	2.5
1	2	490	C	2.5
19	C7	40	THR	2.5
19	C7	120	SER	2.5
48	M1	85	LYS	2.5
80	6	1227	A	2.5
80	6	1421	A	2.5
5	S3	39	VAL	2.5
5	s3	201	ALA	2.5
10	s8	44	HIS	2.5
18	c6	117	LEU	2.5
26	d4	18	LEU	2.5
8	S6	89	ASP	2.5

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Mol	Chain	Res	Type	RSRZ
8	S6	158	ILE	2.5
8	S6	177	ARG	2.5
42	L5	122	VAL	2.5
14	c2	125	ASN	2.5
22	d0	82	TYR	2.5
57	N1	127	GLN	2.5
1	2	680	C	2.5
6	S4	25	GLY	2.5
15	C3	59	GLY	2.5
19	C7	100	LEU	2.5
8	S6	154	ARG	2.5
30	D8	40	ILE	2.5
6	S4	78	THR	2.5
80	6	670	U	2.5
14	C2	48	SER	2.5
31	d9	36	LEU	2.5
4	s2	118	ALA	2.5
5	s3	149	ALA	2.5
83	sR	90	ARG	2.5
42	L5	145	PHE	2.5
80	6	712	G	2.4
7	s5	28	PRO	2.4
7	s5	35	GLN	2.4
29	D7	48	SER	2.4
66	O0	101	LEU	2.4
18	c6	130	GLY	2.4
22	d0	103	ILE	2.4
22	d0	119	ALA	2.4
81	c0	19	GLY	2.4
18	C6	74	HIS	2.4
30	D8	50	GLU	2.4
34	SR	144	LEU	2.4
8	s6	129	VAL	2.4
83	sR	177	MET	2.4
1	2	1392	G	2.4
10	S8	166	TYR	2.4
19	C7	56	HIS	2.4
8	s6	36	VAL	2.4
14	c2	113	ARG	2.4
23	D1	32	VAL	2.4
28	D6	87	ARG	2.4
23	D1	35	ASN	2.4

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
25	D3	51	GLY	2.4
30	d8	48	VAL	2.4
17	c5	134	THR	2.4
26	d4	134	ALA	2.4
34	SR	4	ASN	2.4
49	M3	191	ALA	2.4
5	S3	122	VAL	2.4
9	S7	101	LYS	2.4
13	C1	4	GLU	2.4
18	C6	89	LEU	2.4
2	s0	20	ALA	2.4
39	l2	252	THR	2.4
67	o1	112	ASP	2.4
42	L5	167	SER	2.4
83	sR	130	THR	2.4
85	5	1565	G	2.4
5	S3	117	ARG	2.4
5	s3	128	GLU	2.4
7	S5	31	GLU	2.4
21	C9	57	ARG	2.4
28	D6	82	ARG	2.4
30	d8	31	GLU	2.4
31	d9	33	LYS	2.4
33	e1	111	GLU	2.4
78	q2	72	LEU	2.4
48	M1	127	PHE	2.4
56	n0	2	ALA	2.4
78	q2	79	THR	2.4
1	2	1353	U	2.4
4	S2	157	LYS	2.4
4	S2	187	LEU	2.4
42	L5	236	LEU	2.4
84	sM	49	LYS	2.4
3	S1	121	ILE	2.4
28	d6	72	HIS	2.4
85	5	544	C	2.4
85	5	1573	G	2.4
5	S3	169	ASP	2.4
2	S0	113	ARG	2.4
2	S0	147	THR	2.4
2	s0	165	ARG	2.4
8	s6	217	SER	2.4

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
83	sR	34	LEU	2.4
7	s5	137	ILE	2.4
8	S6	66	GLY	2.4
27	D5	100	ILE	2.4
5	S3	21	LEU	2.4
13	C1	69	LYS	2.4
70	o4	33	GLN	2.4
24	D2	11	LEU	2.4
83	sR	167	VAL	2.4
7	s5	202	ALA	2.4
14	c2	27	ALA	2.4
14	c2	92	ALA	2.4
36	1	3286	G	2.4
2	S0	175	TYR	2.4
5	s3	41	VAL	2.4
35	SM	96	ARG	2.4
19	C7	125	SER	2.4
10	S8	113	PHE	2.4
34	SR	25	THR	2.4
30	D8	22	ARG	2.4
81	c0	58	GLN	2.4
82	c7	60	ARG	2.4
7	S5	24	VAL	2.4
7	s5	153	GLY	2.4
21	C9	103	LYS	2.4
89	p0	186	THR	2.4
6	S4	50	ASN	2.4
7	s5	155	ALA	2.4
22	D0	26	LEU	2.4
22	D0	97	VAL	2.4
30	D8	54	LEU	2.4
49	m3	182	ILE	2.4
8	s6	115	LYS	2.4
25	d3	145	SER	2.4
13	C1	38	ALA	2.4
28	D6	10	ARG	2.4
56	N0	95	ARG	2.4
60	N4	96	LEU	2.4
7	s5	158	GLN	2.4
16	C4	29	HIS	2.4
86	l8	77	GLN	2.4
22	d0	83	GLU	2.4

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Mol	Chain	Res	Type	RSRZ
1	2	137	U	2.4
11	S9	138	LYS	2.4
80	6	261	U	2.4
50	M4	138	ALA	2.4
4	S2	111	VAL	2.4
22	d0	78	THR	2.4
55	M9	188	ASP	2.4
83	sR	300	THR	2.4
18	c6	79	TYR	2.4
36	1	1219	C	2.4
36	1	1260	A	2.4
60	N4	79	GLN	2.4
85	5	2540	A	2.4
22	d0	111	GLY	2.4
34	SR	306	THR	2.4
7	S5	139	ASN	2.4
8	s6	113	ILE	2.4
13	C1	66	ILE	2.4
24	D2	124	LYS	2.4
56	N0	114	HIS	2.4
7	s5	154	ALA	2.4
8	S6	172	ALA	2.4
13	C1	139	VAL	2.4
4	S2	84	LYS	2.4
18	C6	81	ILE	2.3
80	6	1632	C	2.4
89	p0	4	ILE	2.3
12	C0	13	GLN	2.3
78	Q2	105	GLN	2.3
1	2	280	U	2.3
5	S3	159	HIS	2.3
14	C2	127	GLY	2.3
36	1	1763	U	2.3
48	M1	40	LEU	2.3
80	6	1276	U	2.3
79	q3	65	ALA	2.3
89	p0	80	VAL	2.3
2	S0	116	LYS	2.3
16	c4	70	LYS	2.3
22	D0	64	LYS	2.3
2	S0	125	ASP	2.3
14	c2	93	ASP	2.3

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Mol	Chain	Res	Type	RSRZ
34	SR	193	ILE	2.3
80	6	1288	G	2.3
80	6	1697	G	2.3
9	S7	42	GLN	2.3
1	2	1785	A	2.3
8	s6	102	VAL	2.3
36	1	1566	A	2.3
80	6	1399	C	2.3
1	2	494	U	2.3
1	2	775	U	2.3
21	c9	18	TYR	2.3
72	O6	99	ARG	2.3
88	n4	86	SER	2.3
3	s1	97	LEU	2.3
9	S7	22	GLN	2.3
34	SR	41	THR	2.3
56	N0	138	GLN	2.3
13	c1	145	ALA	2.3
83	sR	226	ALA	2.3
3	s1	95	ASN	2.3
6	S4	197	HIS	2.3
12	C0	12	HIS	2.3
23	D1	21	ASN	2.3
2	S0	84	ARG	2.3
21	C9	40	SER	2.3
30	D8	65	ARG	2.3
47	m0	186	GLU	2.3
56	N0	128	GLU	2.3
76	Q0	106	ARG	2.3
83	sR	102	ARG	2.3
28	D6	9	GLY	2.3
42	L5	194	LEU	2.3
57	N1	148	PRO	2.3
18	c6	30	LYS	2.3
22	d0	32	LYS	2.3
82	c7	59	LYS	2.3
84	sM	84	LYS	2.3
24	D2	128	PHE	2.3
24	D2	72	CYS	2.3
81	c0	28	ASN	2.3
8	s6	156	PHE	2.3
8	s6	32	ILE	2.3

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Mol	Chain	Res	Type	RSRZ
8	s6	159	ARG	2.3
22	D0	82	TYR	2.3
55	M9	50	ILE	2.3
80	6	1715	G	2.3
1	2	1403	C	2.3
10	S8	64	ASN	2.3
14	C2	52	LEU	2.3
85	5	1579	C	2.3
18	C6	15	SER	2.3
18	C6	22	VAL	2.3
21	C9	61	VAL	2.3
5	S3	144	ALA	2.3
8	s6	144	PHE	2.3
16	C4	27	PHE	2.3
63	N7	70	PRO	2.3
4	S2	69	ILE	2.3
6	s4	203	GLY	2.3
15	C3	107	LYS	2.3
1	2	1344	U	2.3
1	2	1408	A	2.3
1	2	1566	A	2.3
7	s5	85	ALA	2.3
30	d8	21	SER	2.3
1	2	1510	C	2.3
5	S3	168	ILE	2.3
12	C0	67	THR	2.3
80	6	1703	C	2.3
83	sR	43	ILE	2.3
2	S0	143	VAL	2.3
3	s1	153	HIS	2.3
5	s3	103	GLU	2.3
5	s3	175	VAL	2.3
34	SR	113	VAL	2.3
42	L5	189	GLU	2.3
28	d6	39	MET	2.3
83	sR	138	GLY	2.3
15	C3	14	SER	2.3
18	C6	122	ARG	2.3
18	c6	16	ALA	2.3
21	C9	101	ASN	2.3
6	S4	159	THR	2.3
8	s6	162	VAL	2.3

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Mol	Chain	Res	Type	RSRZ
28	d6	18	VAL	2.3
1	2	217	A	2.3
5	s3	171	ALA	2.3
85	5	442	G	2.3
4	S2	189	GLN	2.3
5	s3	43	PRO	2.3
6	S4	245	LYS	2.3
8	S6	67	VAL	2.3
18	c6	12	LYS	2.3
24	D2	19	LYS	2.3
81	c0	65	TYR	2.3
9	S7	87	ASP	2.3
10	S8	61	GLU	2.3
18	C6	27	GLY	2.3
45	L8	114	ALA	2.3
5	s3	200	LYS	2.3
9	S7	38	LEU	2.3
21	c9	119	LYS	2.3
23	D1	25	LYS	2.3
30	d8	11	LYS	2.3
33	e1	150	VAL	2.3
34	SR	174	ASN	2.3
36	1	621	A	2.3
89	p0	59	VAL	2.3
42	L5	133	GLU	2.3
7	s5	145	ASP	2.3
12	C0	59	PHE	2.3
35	SM	36	ASP	2.3
1	2	1347	G	2.3
79	Q3	36	ARG	2.3
85	5	2522	G	2.3
5	s3	125	TYR	2.3
12	C0	66	TYR	2.3
18	c6	53	LEU	2.3
47	m0	111	LEU	2.3
81	c0	66	TYR	2.3
36	1	3351	U	2.3
42	L5	117	GLU	2.3
42	L5	200	PHE	2.3
7	S5	221	ALA	2.3
22	D0	27	THR	2.3
3	S1	45	LYS	2.3

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Mol	Chain	Res	Type	RSRZ
34	SR	129	LYS	2.3
66	O0	104	LEU	2.3
83	sR	243	LEU	2.3
80	6	674	C	2.3
83	sR	60	SER	2.3
86	l8	121	SER	2.3
1	2	1137	G	2.3
8	S6	90	GLY	2.3
80	6	720	G	2.3
80	6	723	G	2.3
3	S1	96	LEU	2.3
4	s2	117	THR	2.3
8	S6	152	ASP	2.3
4	S2	63	VAL	2.3
11	S9	76	LEU	2.3
82	c7	38	ILE	2.3
4	S2	87	GLN	2.3
26	d4	106	GLN	2.3
29	D7	68	GLY	2.3
61	N5	33	ARG	2.3
36	1	551	A	2.3
80	6	579	A	2.3
11	S9	156	ILE	2.3
80	6	726	C	2.3
15	C3	5	HIS	2.3
47	m0	217	PHE	2.3
83	sR	263	PHE	2.3
1	2	488	G	2.2
8	S6	148	SER	2.2
36	1	1765	U	2.2
80	6	234	G	2.2
89	p0	47	GLY	2.2
15	C3	66	ILE	2.2
17	c5	86	VAL	2.2
21	c9	36	ILE	2.2
24	D2	6	VAL	2.2
7	S5	55	ASP	2.2
84	sM	82	THR	2.2
4	s2	177	GLY	2.2
16	C4	96	PRO	2.2
29	d7	82	LYS	2.2
35	SM	23	LYS	2.2

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Mol	Chain	Res	Type	RSRZ
2	S0	19	ALA	2.2
5	s3	109	LEU	2.2
21	c9	19	ALA	2.2
81	c0	48	SER	2.2
5	s3	9	ARG	2.2
9	S7	76	LYS	2.2
30	d8	39	THR	2.2
31	D9	54	LYS	2.2
33	E1	129	GLY	2.2
78	q2	99	GLN	2.2
83	sR	87	LYS	2.2
18	c6	39	VAL	2.2
42	L5	65	ILE	2.2
66	o0	100	ILE	2.2
4	S2	65	GLU	2.2
27	d5	86	GLU	2.2
32	e0	52	GLY	2.2
5	S3	136	VAL	2.2
5	s3	105	MET	2.2
34	SR	310	ILE	2.2
45	L8	116	VAL	2.2
73	o7	12	HIS	2.2
31	d9	22	ARG	2.2
48	M1	167	TYR	2.2
78	q2	106	PHE	2.2
79	Q3	37	TYR	2.2
89	p0	22	TYR	2.2
2	s0	21	ASN	2.2
11	S9	29	LYS	2.2
18	C6	103	ASN	2.2
88	n4	70	LYS	2.2
1	2	1509	A	2.2
5	S3	179	GLN	2.2
5	S3	201	ALA	2.2
5	s3	86	LEU	2.2
11	S9	116	LEU	2.2
18	C6	83	GLN	2.2
18	c6	83	GLN	2.2
31	d9	38	ILE	2.2
33	e1	86	THR	2.2
13	C1	13	PHE	2.2
18	c6	121	SER	2.2

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Mol	Chain	Res	Type	RSRZ
49	m3	190	LYS	2.2
88	n4	107	GLU	2.2
89	p0	44	GLU	2.2
11	S9	86	LEU	2.2
21	C9	120	GLY	2.2
34	SR	312	VAL	2.2
8	s6	163	THR	2.2
35	SM	141	ALA	2.2
42	L5	151	GLN	2.2
10	s8	59	ARG	2.2
82	c7	54	THR	2.2
7	S5	106	LYS	2.2
18	C6	87	LYS	2.2
34	SR	65	SER	2.2
46	L9	3	TYR	2.2
56	N0	78	TRP	2.2
63	N7	22	LYS	2.2
3	s1	90	GLU	2.2
13	c1	4	GLU	2.2
36	1	1287	A	2.2
78	Q2	96	GLU	2.2
1	2	146	U	2.2
4	S2	115	ILE	2.2
8	s6	133	LEU	2.2
18	c6	52	LEU	2.2
23	d1	34	ILE	2.2
42	L5	195	LEU	2.2
1	2	1409	C	2.2
5	s3	127	MET	2.2
18	C6	62	ASN	2.2
80	6	73	U	2.2
5	S3	214	GLU	2.2
8	s6	148	SER	2.2
9	s7	187	SER	2.2
10	s8	179	CYS	2.2
28	D6	7	SER	2.2
88	n4	106	GLU	2.2
2	s0	173	ILE	2.2
4	S2	218	ILE	2.2
34	SR	199	ILE	2.2
35	SM	131	ILE	2.2
2	S0	40	ALA	2.2

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Mol	Chain	Res	Type	RSRZ
4	S2	98	PHE	2.2
34	SR	192	PHE	2.2
89	p0	38	MET	2.2
6	S4	127	LYS	2.2
2	S0	23	HIS	2.2
2	s0	46	HIS	2.2
34	SR	72	THR	2.2
80	6	71	A	2.2
80	6	1701	A	2.2
1	2	658	C	2.2
5	s3	65	ARG	2.2
10	s8	60	ILE	2.2
14	C2	89	ILE	2.2
22	D0	80	GLU	2.2
28	d6	27	SER	2.2
29	D7	74	SER	2.2
34	SR	3	SER	2.2
34	SR	6	VAL	2.2
34	SR	296	ALA	2.2
86	l8	32	LYS	2.2
58	N2	33	TYR	2.2
4	S2	221	THR	2.2
9	S7	105	THR	2.2
3	S1	20	VAL	2.2
14	C2	55	GLY	2.2
14	C2	71	ILE	2.2
28	D6	88	SER	2.2
31	d9	50	ILE	2.2
83	sR	157	VAL	2.2
1	2	277	U	2.2
10	s8	79	ALA	2.2
18	C6	18	ALA	2.2
80	6	241	U	2.2
80	6	493	U	2.2
80	6	680	U	2.2
1	2	1567	G	2.2
23	d1	33	GLN	2.2
7	S5	175	LEU	2.2
11	s9	148	VAL	2.2
22	d0	26	LEU	2.2
36	1	1562	C	2.2
85	5	1277	C	2.2

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Mol	Chain	Res	Type	RSRZ
28	d6	33	ASP	2.2
34	SR	18	GLY	2.2
34	SR	261	LYS	2.2
34	SR	288	HIS	2.2
89	p0	87	VAL	2.2
13	C1	136	ARG	2.2
22	D0	88	LYS	2.2
57	N1	87	LYS	2.2
21	c9	33	TYR	2.2
2	S0	181	VAL	2.2
4	S2	146	THR	2.2
8	S6	156	PHE	2.2
13	C1	115	PHE	2.2
52	M6	42	ASN	2.2
56	N0	96	ASP	2.2
11	S9	147	MET	2.2
20	C8	2	SER	2.2
11	S9	118	LEU	2.2
14	c2	74	LEU	2.2
4	S2	171	PRO	2.2
4	s2	205	ARG	2.2
7	S5	172	ILE	2.2
10	S8	152	ILE	2.2
16	C4	14	PHE	2.2
1	2	657	U	2.2
4	s2	247	ALA	2.2
7	S5	56	ALA	2.2
10	S8	4	SER	2.2
85	5	620	U	2.2
10	s8	117	TYR	2.2
10	s8	111	GLN	2.2
22	d0	63	LEU	2.2
80	6	1217	A	2.2
85	5	1350	A	2.2
88	n4	91	LYS	2.2
47	m0	204	GLY	2.2
48	M1	73	GLY	2.2
89	p0	82	GLY	2.2
1	2	1701	G	2.2
80	6	230	C	2.2
80	6	405	C	2.2
85	5	1561	G	2.2

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Mol	Chain	Res	Type	RSRZ
6	S4	220	THR	2.2
28	d6	8	ASN	2.2
5	S3	138	VAL	2.2
14	C2	121	VAL	2.2
27	D5	61	SER	2.2
33	E1	106	TYR	2.2
3	S1	93	GLY	2.1
10	S8	70	GLU	2.2
11	S9	106	GLU	2.2
21	C9	70	GLN	2.2
89	p0	75	LYS	2.2
56	N0	143	PHE	2.2
7	S5	155	ALA	2.1
53	M7	156	ALA	2.1
1	2	737	A	2.1
4	S2	141	ARG	2.1
22	d0	90	TYR	2.1
23	D1	22	ARG	2.1
32	e0	53	LYS	2.1
34	SR	225	LEU	2.1
56	N0	92	LYS	2.1
10	S8	43	ILE	2.1
2	s0	100	GLY	2.1
18	C6	94	GLN	2.1
42	L5	193	GLU	2.1
36	1	1256	G	2.1
85	5	251	G	2.1
85	5	1354	G	2.1
28	d6	40	ALA	2.1
1	2	231	U	2.1
10	s8	41	LYS	2.1
89	p0	76	LEU	2.1
4	S2	153	SER	2.1
13	C1	138	ASN	2.1
45	L8	59	GLN	2.1
56	N0	93	GLU	2.1
18	C6	80	ALA	2.1
24	D2	111	MET	2.1
36	1	2207	A	2.1
4	S2	140	ARG	2.1
42	L5	159	VAL	2.1
1	2	1042	U	2.1

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Mol	Chain	Res	Type	RSRZ
1	2	1346	U	2.1
2	S0	54	TRP	2.1
8	s6	35	GLU	2.1
14	C2	130	THR	2.1
22	d0	25	THR	2.1
80	6	1285	U	2.1
82	c7	87	GLU	2.1
14	c2	128	ALA	2.1
5	S3	146	ARG	2.1
7	s5	160	VAL	2.1
18	C6	140	LYS	2.1
83	sR	296	ALA	2.1
19	C7	99	VAL	2.1
2	S0	81	PHE	2.1
58	N2	93	ILE	2.1
8	s6	11	GLY	2.1
14	C2	129	GLU	2.1
30	d8	36	THR	2.1
27	D5	97	LYS	2.1
74	o8	32	ASN	2.1
3	S1	135	LEU	2.1
5	s3	182	LEU	2.1
10	s8	42	ARG	2.1
10	s8	58	LEU	2.1
30	D8	49	ARG	2.1
34	SR	214	ALA	2.1
1	2	259	U	2.1
7	s5	77	TYR	2.1
24	D2	79	PHE	2.1
34	SR	186	PHE	2.1
63	N7	118	PHE	2.1
80	6	1798	U	2.1
85	5	2537	U	2.1
86	l8	49	TYR	2.1
1	2	234	G	2.1
1	2	706	G	2.1
80	6	1265	G	2.1
28	d6	7	SER	2.1
42	l5	295	GLY	2.1
83	sR	251	TRP	2.1
2	s0	124	THR	2.1
7	s5	161	ASP	2.1

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Mol	Chain	Res	Type	RSRZ
13	C1	142	VAL	2.1
18	c6	139	GLN	2.1
18	c6	89	LEU	2.1
46	L9	49	ASN	2.1
5	S3	209	ILE	2.1
36	1	440	A	2.1
1	2	678	U	2.1
5	s3	194	LYS	2.1
10	S8	174	GLY	2.1
14	c2	132	GLU	2.1
31	d9	29	GLY	2.1
18	C6	68	ARG	2.1
27	D5	81	ARG	2.1
70	O4	34	HIS	2.1
85	5	1597	C	2.1
83	sR	120	SER	2.1
28	d6	20	PRO	2.1
65	n9	27	TYR	2.1
78	q2	91	PHE	2.1
85	5	443	G	2.1
4	S2	208	GLU	2.1
22	D0	54	GLY	2.1
39	l2	36	GLU	2.1
2	S0	146	LEU	2.1
53	M7	184	ALA	2.1
55	M9	175	GLN	2.1
56	N0	135	VAL	2.1
7	s5	47	SER	2.1
1	2	504	U	2.1
36	1	1351	U	2.1
15	C3	25	TRP	2.1
34	SR	208	GLY	2.1
5	s3	101	GLN	2.1
83	sR	111	MET	2.1
7	S5	163	SER	2.1
19	C7	21	TYR	2.1
22	d0	41	ILE	2.1
63	n7	21	LYS	2.1
80	6	1433	G	2.1
3	s1	91	VAL	2.1
5	s3	124	ARG	2.1
5	s3	165	ASN	2.1

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Mol	Chain	Res	Type	RSRZ
7	s5	42	LEU	2.1
8	S6	33	GLY	2.1
23	d1	75	ASN	2.1
25	D3	124	VAL	2.1
30	d8	49	ARG	2.1
33	E1	120	GLU	2.1
63	n7	75	VAL	2.1
80	6	1422	A	2.1
88	n4	76	VAL	2.1
83	sR	54	PHE	2.1
1	2	1601	C	2.1
21	C9	138	GLN	2.1
4	s2	166	THR	2.1
11	S9	36	LEU	2.1
58	n2	105	LEU	2.1
88	n4	128	ALA	2.1
4	s2	89	GLN	2.1
8	s6	51	LYS	2.1
9	S7	86	GLN	2.1
22	d0	53	LYS	2.1
36	1	3290	G	2.1
81	c0	54	TYR	2.1
80	6	1425	A	2.1
83	sR	29	GLN	2.1
4	s2	158	THR	2.1
7	S5	140	THR	2.1
10	S8	63	GLY	2.1
83	sR	5	GLU	2.1
83	sR	47	LEU	2.1
89	p0	25	LEU	2.1
5	s3	25	PHE	2.1
28	D6	48	ALA	2.1
36	1	3285	C	2.1
80	6	490	C	2.1
5	s3	8	LYS	2.1
13	C1	57	LYS	2.1
31	D9	50	ILE	2.1
48	M1	65	ILE	2.1
78	Q2	9	LYS	2.1
5	S3	27	ARG	2.1
2	S0	139	VAL	2.1
3	s1	217	LEU	2.1

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Mol	Chain	Res	Type	RSRZ
19	C7	46	LEU	2.1
39	l2	167	GLY	2.1
42	L5	175	HIS	2.1
3	S1	132	ASP	2.1
5	S3	205	ALA	2.1
58	N2	28	PHE	2.1
80	6	231	U	2.1
86	l8	247	ASP	2.1
85	5	1246	G	2.1
85	5	1592	G	2.1
86	l8	120	LYS	2.1
21	c9	55	TYR	2.1
88	n4	101	ARG	2.1
4	S2	225	LEU	2.1
9	S7	17	GLU	2.1
11	S9	87	SER	2.1
11	S9	102	GLU	2.1
36	1	3360	C	2.1
70	O4	72	VAL	2.1
48	M1	45	PRO	2.1
83	sR	112	SER	2.1
10	s8	162	ALA	2.1
18	C6	43	ILE	2.1
18	C6	120	ASP	2.1
23	D1	52	THR	2.1
61	n5	23	ALA	2.1
63	n7	2	ALA	2.1
4	s2	201	ASN	2.1
7	S5	79	ASN	2.1
18	C6	45	ARG	2.1
6	S4	207	LEU	2.1
22	D0	31	VAL	2.1
85	5	1564	U	2.1
11	S9	121	SER	2.0
1	2	854	G	2.0
7	S5	210	ALA	2.0
22	D0	96	PRO	2.0
28	d6	65	PRO	2.0
29	D7	70	LYS	2.0
80	6	1256	A	2.0
36	1	251	G	2.0
5	s3	122	VAL	2.0

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Mol	Chain	Res	Type	RSRZ
7	s5	127	GLN	2.0
25	d3	10	ASN	2.0
63	N7	95	VAL	2.0
8	s6	218	GLU	2.0
10	S8	39	GLY	2.0
67	o1	82	GLU	2.0
4	S2	83	ILE	2.0
8	s6	175	ILE	2.0
11	S9	12	TYR	2.0
30	D8	18	ARG	2.0
30	d8	42	ARG	2.0
83	sR	135	THR	2.0
6	S4	183	VAL	2.0
63	n7	74	VAL	2.0
34	SR	17	ASN	2.0
57	N1	159	PHE	2.0
63	N7	4	PHE	2.0
63	N7	52	LYS	2.0
89	p0	103	ASN	2.0
2	S0	132	ALA	2.0
80	6	1718	G	2.0
1	2	1382	C	2.0
27	D5	88	ILE	2.0
36	1	1582	C	2.0
48	M1	162	TRP	2.0
6	s4	208	VAL	2.0
11	S9	30	LEU	2.0
30	D8	66	LEU	2.0
10	s8	103	GLN	2.0
16	c4	98	GLY	2.0
36	1	1028	U	2.0
40	L3	94	GLU	2.0
2	S0	75	ALA	2.0
13	C1	82	ARG	2.0
18	c6	86	ALA	2.0
28	d6	96	ALA	2.0
19	C7	89	SER	2.0
23	D1	51	VAL	2.0
35	SM	28	SER	2.0
4	S2	169	LEU	2.0
28	d6	71	LEU	2.0
2	s0	112	THR	2.0

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Mol	Chain	Res	Type	RSRZ
5	S3	154	ASP	2.0
7	S5	21	THR	2.0
17	C5	27	GLU	2.0
22	d0	33	GLN	2.0
26	D4	67	GLY	2.0
80	6	199	G	2.0
2	S0	144	ILE	2.0
13	C1	122	ILE	2.0
22	d0	95	ALA	2.0
24	D2	80	ASN	2.0
72	O6	98	ARG	2.0
1	2	1345	U	2.0
4	s2	81	MET	2.0
7	s5	61	TYR	2.0
82	c7	65	PRO	2.0
89	p0	53	MET	2.0
23	D1	36	VAL	2.0
28	d6	17	HIS	2.0
83	sR	3	SER	2.0
30	d8	58	GLU	2.0
18	c6	134	ALA	2.0
30	D8	53	ILE	2.0
89	p0	49	ALA	2.0
28	D6	75	VAL	2.0
34	SR	62	LYS	2.0
42	L5	49	TYR	2.0
42	l5	135	VAL	2.0
48	M1	80	LEU	2.0
51	m5	129	TYR	2.0
1	2	1666	C	2.0
3	s1	101	HIS	2.0
7	S5	72	HIS	2.0
16	C4	98	GLY	2.0
39	l2	73	GLU	2.0
80	6	495	C	2.0
2	s0	157	ASP	2.0
5	S3	204	ASP	2.0
5	s3	204	ASP	2.0
22	d0	65	ILE	2.0
29	D7	77	THR	2.0
34	SR	122	ILE	2.0
34	SR	233	THR	2.0

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Mol	Chain	Res	Type	RSRZ
81	c0	37	THR	2.0
83	sR	109	ASP	2.0
83	sR	140	CYS	2.0
10	S8	193	LEU	2.0
18	C6	132	LYS	2.0
20	C8	105	VAL	2.0
42	L5	180	PHE	2.0
1	2	1393	A	2.0
7	s5	91	GLU	2.0
63	N7	132	SER	2.0
80	6	1794	A	2.0
83	sR	35	SER	2.0

## 6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

## 6.3 Carbohydrates [i](#)

There are no carbohydrates in this entry.

## 6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. The B-factors column lists the minimum, median, 95<sup>th</sup> percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
93	MG	1	3897	1/1	0.94	0.67	63.91	44,44,44,44	0
93	MG	5	4100	1/1	0.94	1.47	61.12	32,32,32,32	0
93	MG	1	3921	1/1	0.95	0.91	58.03	34,34,34,34	0
93	MG	5	3847	1/1	0.97	0.64	44.76	32,32,32,32	0
93	MG	1	3876	1/1	0.96	0.63	42.09	45,45,45,45	0
93	MG	1	4056	1/1	0.88	0.97	39.88	32,32,32,32	0
93	MG	5	3928	1/1	0.97	0.73	39.47	32,32,32,32	0
93	MG	1	4102	1/1	0.93	0.94	38.69	43,43,43,43	0
93	MG	5	3911	1/1	0.92	0.58	37.19	31,31,31,31	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
93	MG	6	2083	1/1	0.92	0.76	37.01	56,56,56,56	0
93	MG	6	2074	1/1	0.84	0.63	36.62	88,88,88,88	0
93	MG	1	3898	1/1	0.98	0.67	34.96	30,30,30,30	0
93	MG	5	3903	1/1	0.96	0.75	32.11	39,39,39,39	0
93	MG	5	3974	1/1	0.90	0.43	32.01	37,37,37,37	0
93	MG	1	3852	1/1	0.95	0.63	31.21	36,36,36,36	0
93	MG	5	3918	1/1	0.93	0.72	29.78	44,44,44,44	0
93	MG	5	3874	1/1	0.98	0.56	28.75	31,31,31,31	0
93	MG	1	4027	1/1	0.82	0.69	28.69	39,39,39,39	0
93	MG	1	3859	1/1	0.95	0.62	28.69	32,32,32,32	0
93	MG	5	4082	1/1	0.95	0.88	27.14	40,40,40,40	0
93	MG	5	4023	1/1	0.73	0.78	26.85	33,33,33,33	0
93	MG	6	2109	1/1	0.89	0.82	25.86	90,90,90,90	0
93	MG	1	3784	1/1	0.85	0.76	25.78	39,39,39,39	0
93	MG	5	3906	1/1	0.96	0.65	25.16	32,32,32,32	0
93	MG	5	3990	1/1	0.66	0.79	24.95	35,35,35,35	0
93	MG	1	3983	1/1	0.85	0.57	24.88	48,48,48,48	0
93	MG	1	3889	1/1	0.97	0.75	24.82	39,39,39,39	0
93	MG	5	3895	1/1	0.88	0.61	24.81	47,47,47,47	0
93	MG	1	3877	1/1	0.91	0.70	24.61	43,43,43,43	0
93	MG	5	3908	1/1	0.90	0.62	24.50	33,33,33,33	0
93	MG	6	2100	1/1	0.94	0.84	24.29	45,45,45,45	0
93	MG	N8	203	1/1	0.88	0.89	24.27	32,32,32,32	0
93	MG	5	3929	1/1	0.97	0.54	24.08	34,34,34,34	0
93	MG	1	3911	1/1	0.95	0.43	23.45	38,38,38,38	0
93	MG	5	3913	1/1	0.97	0.69	23.38	37,37,37,37	0
92	OHX	1	3710	7/7	0.96	0.45	23.31	47,47,47,47	0
93	MG	1	3912	1/1	0.91	0.81	22.86	52,52,52,52	0
93	MG	5	3898	1/1	0.96	0.63	22.65	44,44,44,44	0
93	MG	5	4115	1/1	0.97	0.57	22.48	35,35,35,35	0
93	MG	1	3840	1/1	0.92	0.55	22.43	42,42,42,42	0
93	MG	5	3945	1/1	0.70	0.60	22.40	44,44,44,44	0
93	MG	1	4055	1/1	0.95	0.51	22.25	38,38,38,38	0
93	MG	5	4170	1/1	0.96	0.50	22.20	33,33,33,33	0
93	MG	5	3853	1/1	0.98	0.85	22.09	40,40,40,40	0
93	MG	1	3825	1/1	0.90	0.60	22.06	38,38,38,38	0
93	MG	5	3759	1/1	0.89	0.54	21.42	43,43,43,43	0
93	MG	1	3836	1/1	0.90	0.73	20.76	32,32,32,32	0
93	MG	o3	203	1/1	0.90	0.65	20.68	36,36,36,36	0
93	MG	5	3917	1/1	0.97	0.55	20.45	36,36,36,36	0
93	MG	1	3790	1/1	0.91	0.50	20.45	33,33,33,33	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
93	MG	6	2131	1/1	0.94	0.47	20.26	60,60,60,60	0
93	MG	1	3984	1/1	0.98	0.47	20.09	37,37,37,37	0
93	MG	5	3811	1/1	0.70	0.48	19.87	39,39,39,39	0
93	MG	5	3865	1/1	0.91	0.54	19.35	38,38,38,38	0
93	MG	5	3851	1/1	0.88	0.62	19.30	31,31,31,31	0
93	MG	5	3942	1/1	0.88	0.44	19.21	34,34,34,34	0
93	MG	1	3909	1/1	0.93	0.58	19.17	41,41,41,41	0
93	MG	1	4036	1/1	0.94	0.56	19.10	37,37,37,37	0
93	MG	1	3914	1/1	0.97	0.56	18.28	49,49,49,49	0
93	MG	5	4034	1/1	0.97	0.61	18.20	34,34,34,34	0
93	MG	2	2126	1/1	0.89	0.57	17.78	78,78,78,78	0
93	MG	1	3989	1/1	0.94	0.70	17.74	59,59,59,59	0
93	MG	1	4072	1/1	0.93	0.65	17.49	34,34,34,34	0
93	MG	L4	406	1/1	0.96	0.74	17.24	33,33,33,33	0
95	PHE	5	3401	11/12	0.68	0.49	17.21	31,31,41,41	0
93	MG	1	3739	1/1	0.86	0.47	17.18	37,37,37,37	0
93	MG	5	3962	1/1	0.97	0.48	16.96	39,39,39,39	0
93	MG	5	3840	1/1	0.69	0.50	16.55	45,45,45,45	0
93	MG	1	3919	1/1	0.97	0.50	16.14	32,32,32,32	0
93	MG	1	3845	1/1	0.94	0.64	16.09	39,39,39,39	0
93	MG	1	3896	1/1	0.96	0.62	15.89	37,37,37,37	0
93	MG	5	3755	1/1	0.71	0.53	15.83	45,45,45,45	0
93	MG	5	3912	1/1	0.99	0.42	15.61	34,34,34,34	0
93	MG	1	4104	1/1	0.94	0.40	15.56	39,39,39,39	0
93	MG	1	3851	1/1	0.95	0.45	15.53	33,33,33,33	0
93	MG	5	3820	1/1	0.97	0.49	15.29	31,31,31,31	0
93	MG	1	4045	1/1	0.97	0.40	14.96	35,35,35,35	0
93	MG	N3	201	1/1	0.94	0.50	14.64	41,41,41,41	0
93	MG	1	3894	1/1	0.95	0.50	14.26	46,46,46,46	0
93	MG	5	3894	1/1	0.88	0.60	14.25	43,43,43,43	0
93	MG	1	3971	1/1	0.96	0.52	14.16	37,37,37,37	0
93	MG	1	3867	1/1	0.99	0.54	14.10	40,40,40,40	0
92	OHX	5	3718	7/7	0.97	0.39	13.69	48,48,48,48	0
93	MG	5	3858	1/1	0.84	0.45	13.60	42,42,42,42	0
93	MG	1	4077	1/1	0.78	0.52	13.51	51,51,51,51	0
93	MG	5	4094	1/1	0.79	0.38	13.28	34,34,34,34	0
92	OHX	1	3727	7/7	0.95	0.37	13.22	69,69,69,69	0
93	MG	N0	201	1/1	0.93	0.93	13.15	43,43,43,43	0
93	MG	5	3930	1/1	0.98	0.58	13.04	29,29,29,29	0
93	MG	6	2084	1/1	0.83	0.42	12.93	60,60,60,60	0
93	MG	5	3754	1/1	0.93	0.38	12.76	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
92	OHX	5	3658	7/7	0.96	0.27	12.61	50,50,50,50	0
92	OHX	1	3729	7/7	0.97	0.35	12.60	55,55,55,55	0
92	OHX	5	3617	7/7	0.97	0.34	12.32	63,63,63,63	0
93	MG	1	3786	1/1	0.77	0.49	12.25	51,51,51,51	0
93	MG	5	3934	1/1	0.97	0.72	12.12	41,41,41,41	0
93	MG	5	3766	1/1	0.95	0.49	12.00	31,31,31,31	0
93	MG	1	3844	1/1	0.99	0.45	11.94	36,36,36,36	0
92	OHX	1	3703	7/7	0.98	0.33	11.92	49,49,49,49	0
93	MG	2	2060	1/1	0.92	0.71	11.89	74,74,74,74	0
93	MG	5	3937	1/1	0.96	0.50	11.87	34,34,34,34	0
93	MG	5	3868	1/1	0.82	0.40	11.82	33,33,33,33	0
93	MG	5	4013	1/1	0.91	0.46	11.60	32,32,32,32	0
93	MG	5	3925	1/1	0.92	0.48	11.58	38,38,38,38	0
92	OHX	4	215	7/7	0.98	0.32	11.53	48,48,48,48	0
92	OHX	1	3599	7/7	0.98	0.32	11.43	50,50,50,50	0
93	MG	5	3844	1/1	0.92	0.61	11.40	38,38,38,38	0
93	MG	2	2076	1/1	0.73	0.43	11.36	86,86,86,86	0
92	OHX	5	3707	7/7	0.98	0.44	11.24	76,76,76,76	0
93	MG	5	3941	1/1	0.86	0.53	11.21	38,38,38,38	0
93	MG	5	4071	1/1	0.93	0.41	11.12	33,33,33,33	0
93	MG	1	3944	1/1	0.84	0.34	11.11	47,47,47,47	0
93	MG	L3	405	1/1	0.93	0.80	10.98	41,41,41,41	0
93	MG	5	4140	1/1	0.93	0.45	10.96	38,38,38,38	0
93	MG	5	4169	1/1	0.93	1.01	10.84	44,44,44,44	0
93	MG	1	4074	1/1	0.96	0.60	10.76	41,41,41,41	0
93	MG	2	2071	1/1	0.96	0.51	10.75	79,79,79,79	0
93	MG	1	4014	1/1	0.92	0.38	10.75	37,37,37,37	0
92	OHX	5	3609	7/7	0.99	0.36	10.69	67,67,67,67	0
93	MG	1	3853	1/1	0.89	0.63	10.60	52,52,52,52	0
93	MG	5	3933	1/1	0.96	0.39	10.55	31,31,31,31	0
92	OHX	1	3712	7/7	0.99	0.30	10.47	58,58,58,58	0
93	MG	5	3854	1/1	0.96	0.59	10.44	31,31,31,31	0
93	MG	5	4119	1/1	0.73	0.44	10.42	43,43,43,43	0
93	MG	1	3949	1/1	0.94	0.45	10.08	48,48,48,48	0
93	MG	6	2068	1/1	0.90	0.45	9.98	105,105,105,105	0
93	MG	1	4123	1/1	0.98	0.27	9.94	37,37,37,37	0
93	MG	5	4078	1/1	0.98	0.32	9.86	61,61,61,61	0
93	MG	6	2079	1/1	0.85	0.42	9.76	72,72,72,72	0
93	MG	5	4110	1/1	0.95	0.39	9.71	32,32,32,32	0
93	MG	1	3824	1/1	0.97	0.31	9.67	37,37,37,37	0
93	MG	5	4025	1/1	0.93	0.55	9.62	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
92	OHX	6	2029	7/7	0.97	0.44	9.57	69,69,69,69	0
93	MG	l3	406	1/1	0.92	0.77	9.55	34,34,34,34	0
93	MG	1	3918	1/1	0.98	0.56	9.51	32,32,32,32	0
93	MG	1	3907	1/1	0.91	0.45	9.46	49,49,49,49	0
93	MG	1	3800	1/1	0.96	0.41	9.29	39,39,39,39	0
93	MG	1	3966	1/1	0.90	0.35	9.20	44,44,44,44	0
93	MG	d3	201	1/1	0.79	0.50	9.16	55,55,55,55	0
93	MG	6	2105	1/1	0.83	0.56	9.14	65,65,65,65	0
93	MG	5	3893	1/1	0.73	0.28	8.90	43,43,43,43	0
92	OHX	5	3661	7/7	0.97	0.39	8.85	58,58,58,58	0
93	MG	1	3737	1/1	0.87	0.36	8.84	47,47,47,47	0
93	MG	1	3835	1/1	0.94	0.38	8.74	35,35,35,35	0
93	MG	5	3916	1/1	0.94	0.50	8.72	48,48,48,48	0
93	MG	5	3932	1/1	0.96	0.57	8.66	37,37,37,37	0
93	MG	2	2110	1/1	0.74	0.45	8.54	76,76,76,76	0
92	OHX	1	3648	7/7	0.99	0.33	8.44	55,55,55,55	0
92	OHX	1	3646	7/7	0.95	0.33	8.42	57,57,57,57	0
93	MG	5	3768	1/1	0.97	0.55	8.29	36,36,36,36	0
93	MG	6	2128	1/1	0.82	0.36	8.27	88,88,88,88	0
93	MG	1	3937	1/1	0.90	0.34	8.20	40,40,40,40	0
93	MG	1	3841	1/1	0.96	0.39	8.17	41,41,41,41	0
93	MG	5	3867	1/1	0.90	0.46	8.11	44,44,44,44	0
93	MG	M7	204	1/1	0.91	0.45	8.08	38,38,38,38	0
92	OHX	5	3689	7/7	0.98	0.40	8.04	59,59,59,59	0
93	MG	5	3837	1/1	0.98	0.40	7.99	34,34,34,34	0
93	MG	1	3868	1/1	0.96	0.39	7.97	44,44,44,44	0
93	MG	5	4159	1/1	0.93	0.32	7.90	39,39,39,39	0
93	MG	5	3901	1/1	0.96	0.34	7.84	32,32,32,32	0
92	OHX	1	3685	7/7	0.94	0.37	7.83	65,65,65,65	0
93	MG	2	2141	1/1	0.61	0.57	7.82	79,79,79,79	0
92	OHX	1	3699	7/7	0.98	0.28	7.75	60,60,60,60	0
93	MG	1	3916	1/1	0.97	0.50	7.65	34,34,34,34	0
92	OHX	5	3698	7/7	0.98	0.36	7.64	59,59,59,59	0
92	OHX	1	3654	7/7	0.98	0.31	7.63	60,60,60,60	0
92	OHX	7	211	7/7	0.96	0.30	7.49	69,69,69,69	0
93	MG	1	3882	1/1	0.98	0.30	7.46	33,33,33,33	0
93	MG	l3	405	1/1	0.87	0.37	7.46	38,38,38,38	0
92	OHX	1	3728	7/7	0.92	0.35	7.43	50,50,50,50	0
92	OHX	1	3642	7/7	0.97	0.25	7.42	64,64,64,64	0
93	MG	1	3932	1/1	0.76	0.25	7.41	37,37,37,37	0
92	OHX	8	210	7/7	0.98	0.30	7.38	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
93	MG	5	3983	1/1	0.90	0.35	7.35	35,35,35,35	0
92	OHX	1	3579	7/7	0.97	0.30	7.35	59,59,59,59	0
93	MG	1	4097	1/1	0.82	0.30	7.33	49,49,49,49	0
93	MG	1	4088	1/1	0.90	0.98	7.33	34,34,34,34	0
92	OHX	5	3662	7/7	0.98	0.37	7.27	51,51,51,51	0
93	MG	5	3961	1/1	0.94	0.32	7.25	41,41,41,41	0
92	OHX	5	3551	7/7	0.98	0.26	7.24	49,49,49,49	0
92	OHX	5	3740	7/7	0.96	0.35	7.21	55,55,55,55	0
92	OHX	1	3665	7/7	0.98	0.27	7.19	66,66,66,66	0
93	MG	5	3801	1/1	0.91	0.33	7.14	31,31,31,31	0
93	MG	8	218	1/1	0.94	0.34	6.96	37,37,37,37	0
93	MG	2	2123	1/1	0.87	0.49	6.96	96,96,96,96	0
93	MG	5	3859	1/1	0.96	0.44	6.93	32,32,32,32	0
93	MG	1	3826	1/1	0.78	0.33	6.91	49,49,49,49	0
92	OHX	1	3688	7/7	0.98	0.36	6.81	58,58,58,58	0
93	MG	1	4100	1/1	0.94	0.82	6.76	45,45,45,45	0
92	OHX	5	3670	7/7	0.97	0.31	6.71	50,50,50,50	0
92	OHX	4	212	7/7	0.98	0.25	6.67	50,50,50,50	0
92	OHX	5	3623	7/7	0.95	0.24	6.66	59,59,59,59	0
93	MG	1	3812	1/1	0.98	0.35	6.62	40,40,40,40	0
92	OHX	6	2037	7/7	0.93	0.38	6.61	77,77,77,77	0
92	OHX	1	3597	7/7	0.98	0.28	6.61	56,56,56,56	0
93	MG	1	3899	1/1	0.97	0.44	6.60	34,34,34,34	0
93	MG	m5	303	1/1	0.90	0.38	6.59	37,37,37,37	0
92	OHX	8	211	7/7	0.96	0.27	6.59	60,60,60,60	0
93	MG	5	4113	1/1	0.94	0.29	6.59	35,35,35,35	0
93	MG	2	2062	1/1	0.77	0.29	6.53	98,98,98,98	0
92	OHX	1	3721	7/7	0.95	0.30	6.50	61,61,61,61	0
93	MG	5	3813	1/1	0.96	0.42	6.48	44,44,44,44	0
92	OHX	6	2051	7/7	0.96	0.36	6.45	84,84,84,84	0
92	OHX	5	3684	7/7	0.98	0.44	6.40	72,72,72,72	0
93	MG	5	4112	1/1	0.86	0.93	6.36	45,45,45,45	0
92	OHX	5	3565	7/7	0.98	0.26	6.33	59,59,59,59	0
93	MG	6	2069	1/1	0.95	0.35	6.32	61,61,61,61	0
92	OHX	5	3721	7/7	0.98	0.26	6.32	49,49,49,49	0
92	OHX	5	3664	7/7	0.97	0.30	6.27	71,71,71,71	0
93	MG	n3	201	1/1	0.90	0.39	6.20	32,32,32,32	0
92	OHX	4	218	7/7	0.96	0.34	6.19	67,67,67,67	0
92	OHX	8	213	7/7	0.96	0.31	6.18	62,62,62,62	0
92	OHX	5	3573	7/7	0.98	0.22	6.10	54,54,54,54	0
93	MG	2	2099	1/1	0.89	0.60	6.10	80,80,80,80	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
93	MG	5	4145	1/1	0.98	0.36	6.09	34,34,34,34	0
93	MG	6	2080	1/1	0.69	0.63	6.08	63,63,63,63	0
92	OHX	1	3626	7/7	0.96	0.34	6.06	70,70,70,70	0
92	OHX	5	3632	7/7	0.96	0.31	6.05	51,51,51,51	0
93	MG	1	3801	1/1	0.97	0.37	6.05	32,32,32,32	0
92	OHX	1	3621	7/7	0.96	0.25	6.05	70,70,70,70	0
93	MG	1	3969	1/1	0.97	0.27	6.00	42,42,42,42	0
93	MG	4	227	1/1	0.97	0.36	5.99	36,36,36,36	0
93	MG	2	2095	1/1	0.81	0.39	5.97	80,80,80,80	0
92	OHX	5	3671	7/7	0.95	0.33	5.96	40,40,40,40	0
92	OHX	2	2025	7/7	0.94	0.36	5.96	85,85,85,85	0
96	LEU	5	3402	8/9	0.79	0.36	5.95	36,36,36,36	0
93	MG	5	3785	1/1	0.97	0.27	5.95	33,33,33,33	0
93	MG	5	3780	1/1	0.71	0.32	5.94	57,57,57,57	0
92	OHX	5	3705	7/7	0.98	0.34	5.92	59,59,59,59	0
92	OHX	5	3647	7/7	0.98	0.41	5.91	63,63,63,63	0
93	MG	5	3773	1/1	0.98	0.31	5.74	38,38,38,38	0
92	OHX	5	3716	7/7	0.96	0.36	5.73	59,59,59,59	0
93	MG	1	3952	1/1	0.80	0.27	5.72	32,32,32,32	0
93	MG	7	222	1/1	0.95	0.31	5.69	35,35,35,35	0
93	MG	5	4022	1/1	0.76	0.38	5.67	65,65,65,65	0
92	OHX	5	3643	7/7	0.98	0.31	5.63	49,49,49,49	0
93	MG	1	4073	1/1	0.88	0.75	5.62	37,37,37,37	0
92	OHX	5	3694	7/7	0.98	0.25	5.61	63,63,63,63	0
92	OHX	1	3614	7/7	0.95	0.34	5.61	58,58,58,58	0
92	OHX	5	3636	7/7	0.98	0.27	5.51	46,46,46,46	0
93	MG	1	3883	1/1	0.93	0.34	5.49	44,44,44,44	0
92	OHX	5	3659	7/7	0.96	0.30	5.45	58,58,58,58	0
92	OHX	1	3560	7/7	0.95	0.31	5.42	54,54,54,54	0
93	MG	1	3892	1/1	0.98	0.45	5.37	33,33,33,33	0
93	MG	n0	202	1/1	0.97	0.60	5.36	37,37,37,37	0
93	MG	5	4070	1/1	0.87	0.70	5.35	40,40,40,40	0
92	OHX	1	3590	7/7	0.98	0.30	5.34	53,53,53,53	0
92	OHX	5	3720	7/7	0.97	0.28	5.32	67,67,67,67	0
93	MG	2	2065	1/1	0.91	0.39	5.29	88,88,88,88	0
93	MG	2	2089	1/1	0.72	0.39	5.26	85,85,85,85	0
92	OHX	1	3667	7/7	0.94	0.32	5.16	81,81,81,81	0
93	MG	4	228	1/1	0.93	0.27	5.16	32,32,32,32	0
93	MG	5	3793	1/1	0.92	0.26	5.14	42,42,42,42	0
93	MG	N5	201	1/1	0.95	0.37	5.10	43,43,43,43	0
93	MG	5	3890	1/1	0.92	0.41	5.09	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
93	MG	1	4108	1/1	0.96	0.36	5.08	48,48,48,48	0
93	MG	O5	201	1/1	0.92	0.55	5.06	42,42,42,42	0
92	OHX	1	3594	7/7	0.93	0.32	5.06	66,66,66,66	0
92	OHX	5	3739	7/7	0.93	0.44	5.04	69,69,69,69	0
92	OHX	5	3695	7/7	0.98	0.30	5.03	55,55,55,55	0
93	MG	5	4069	1/1	0.95	0.43	5.02	35,35,35,35	0
93	MG	5	3789	1/1	0.98	0.33	5.00	32,32,32,32	0
92	OHX	5	3688	7/7	0.96	0.38	4.97	66,66,66,66	0
93	MG	P	102	1/1	0.96	0.40	4.97	39,39,39,39	0
92	OHX	5	3700	7/7	0.94	0.33	4.94	63,63,63,63	0
92	OHX	1	3718	7/7	0.98	0.32	4.90	64,64,64,64	0
93	MG	M7	206	1/1	0.98	0.58	4.87	37,37,37,37	0
92	OHX	5	3570	7/7	0.97	0.23	4.82	63,63,63,63	0
93	MG	1	4098	1/1	0.94	0.32	4.78	41,41,41,41	0
93	MG	l2	303	1/1	0.98	0.93	4.78	44,44,44,44	0
93	MG	1	3922	1/1	0.87	0.23	4.74	42,42,42,42	0
92	OHX	5	3645	7/7	0.97	0.31	4.72	53,53,53,53	0
92	OHX	1	3649	7/7	0.98	0.30	4.72	65,65,65,65	0
93	MG	5	4053	1/1	0.94	0.37	4.70	34,34,34,34	0
93	MG	1	3814	1/1	0.98	0.29	4.70	44,44,44,44	0
93	MG	2	2115	1/1	0.87	0.62	4.68	84,84,84,84	0
92	OHX	2	1995	7/7	0.94	0.27	4.67	103,103,103,103	0
93	MG	1	4071	1/1	0.97	0.25	4.66	35,35,35,35	0
93	MG	1	4099	1/1	0.84	0.55	4.65	58,58,58,58	0
93	MG	n8	203	1/1	0.95	0.80	4.64	34,34,34,34	0
92	OHX	7	209	7/7	0.98	0.25	4.62	46,46,46,46	0
93	MG	5	4098	1/1	0.82	0.37	4.61	45,45,45,45	0
92	OHX	1	3671	7/7	0.97	0.32	4.60	65,65,65,65	0
93	MG	5	3869	1/1	0.87	0.27	4.60	40,40,40,40	0
93	MG	1	3977	1/1	0.83	0.51	4.58	36,36,36,36	0
92	OHX	1	3675	7/7	0.96	0.32	4.55	61,61,61,61	0
93	MG	1	4082	1/1	0.96	0.27	4.45	38,38,38,38	0
92	OHX	1	3653	7/7	0.98	0.26	4.45	57,57,57,57	0
93	MG	1	3822	1/1	0.96	0.31	4.44	40,40,40,40	0
93	MG	5	4168	1/1	0.97	0.23	4.44	32,32,32,32	0
92	OHX	5	3729	7/7	0.96	0.33	4.44	49,49,49,49	0
93	MG	1	4091	1/1	0.97	0.55	4.41	42,42,42,42	0
92	OHX	5	3531	7/7	0.97	0.25	4.35	55,55,55,55	0
92	OHX	6	2035	7/7	0.96	0.41	4.34	84,84,84,84	0
92	OHX	5	3660	7/7	0.97	0.30	4.29	70,70,70,70	0
92	OHX	5	3630	7/7	0.97	0.31	4.28	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
92	OHX	1	3660	7/7	0.98	0.32	4.26	70,70,70,70	0
92	OHX	5	3687	7/7	0.98	0.37	4.24	58,58,58,58	0
93	MG	5	4079	1/1	0.94	0.46	4.24	43,43,43,43	0
92	OHX	1	3687	7/7	0.97	0.27	4.24	67,67,67,67	0
92	OHX	5	3554	7/7	0.95	0.31	4.19	50,50,50,50	0
93	MG	5	3892	1/1	0.85	0.32	4.18	40,40,40,40	0
93	MG	4	233	1/1	0.89	0.35	4.16	45,45,45,45	0
92	OHX	2	2029	7/7	0.97	0.29	4.13	79,79,79,79	0
92	OHX	1	3662	7/7	0.98	0.32	4.12	50,50,50,50	0
92	OHX	5	3693	7/7	0.96	0.27	4.08	70,70,70,70	0
92	OHX	5	3681	7/7	0.98	0.31	4.08	45,45,45,45	0
93	MG	sM	202	1/1	0.97	0.61	4.04	45,45,45,45	0
93	MG	1	3925	1/1	0.98	0.26	4.03	42,42,42,42	0
92	OHX	5	3599	7/7	0.96	0.28	4.01	68,68,68,68	0
93	MG	L3	403	1/1	0.90	0.57	3.99	51,51,51,51	0
93	MG	5	3752	1/1	0.75	0.32	3.98	45,45,45,45	0
92	OHX	1	3576	7/7	0.97	0.28	3.94	47,47,47,47	0
92	OHX	1	3508	7/7	0.99	0.20	3.93	51,51,51,51	0
93	MG	1	3809	1/1	0.66	0.32	3.93	37,37,37,37	0
93	MG	1	3745	1/1	0.95	0.37	3.90	41,41,41,41	0
93	MG	5	4174	1/1	0.81	0.45	3.86	31,31,31,31	0
93	MG	5	3944	1/1	0.94	0.37	3.85	40,40,40,40	0
92	OHX	1	3537	7/7	0.98	0.25	3.84	61,61,61,61	0
92	OHX	1	3525	7/7	0.98	0.24	3.81	57,57,57,57	0
92	OHX	1	3655	7/7	0.97	0.29	3.78	55,55,55,55	0
92	OHX	2	2031	7/7	0.93	0.31	3.78	103,103,103,103	0
92	OHX	5	3706	7/7	0.98	0.36	3.78	54,54,54,54	0
93	MG	L7	302	1/1	0.90	0.61	3.77	39,39,39,39	0
92	OHX	5	3549	7/7	0.98	0.24	3.73	49,49,49,49	0
92	OHX	6	2033	7/7	0.96	0.37	3.73	78,78,78,78	0
98	8AN	P	101	22/23	0.91	0.25	3.71	37,38,38,38	0
93	MG	O7	105	1/1	0.73	0.54	3.70	42,42,42,42	0
92	OHX	6	2032	7/7	0.95	0.26	3.70	92,92,92,92	0
93	MG	1	4002	1/1	0.92	0.28	3.69	52,52,52,52	0
92	OHX	5	3590	7/7	0.98	0.28	3.68	47,47,47,47	0
93	MG	1	4093	1/1	0.96	0.59	3.68	33,33,33,33	0
93	MG	7	221	1/1	0.82	0.51	3.67	47,47,47,47	0
93	MG	M7	205	1/1	0.90	0.31	3.66	38,38,38,38	0
93	MG	2	2069	1/1	0.97	0.35	3.64	79,79,79,79	0
92	OHX	2	2047	7/7	0.94	0.44	3.64	105,105,105,105	0
93	MG	N3	203	1/1	0.96	0.34	3.63	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
92	OHX	5	3578	7/7	0.96	0.30	3.58	50,50,50,50	0
92	OHX	5	3527	7/7	0.97	0.24	3.57	47,47,47,47	0
93	MG	1	3767	1/1	0.98	0.33	3.55	36,36,36,36	0
92	OHX	m0	303	7/7	0.98	0.32	3.54	53,53,53,53	0
92	OHX	5	3607	7/7	0.98	0.31	3.53	59,59,59,59	0
92	OHX	5	3606	7/7	0.98	0.25	3.49	61,61,61,61	0
92	OHX	5	3652	7/7	0.95	0.37	3.48	48,48,48,48	0
92	OHX	1	3714	7/7	0.96	0.36	3.46	72,72,72,72	0
92	OHX	1	3674	7/7	0.97	0.40	3.43	73,73,73,73	0
93	MG	6	2118	1/1	0.92	0.30	3.43	96,96,96,96	0
92	OHX	1	3643	7/7	0.98	0.27	3.42	77,77,77,77	0
92	OHX	1	3702	7/7	0.93	0.27	3.41	38,38,38,38	0
92	OHX	5	3644	7/7	0.96	0.26	3.40	48,48,48,48	0
92	OHX	6	2024	7/7	0.96	0.38	3.37	103,103,103,103	0
92	OHX	8	212	7/7	0.97	0.34	3.37	76,76,76,76	0
92	OHX	1	3670	7/7	0.98	0.26	3.36	60,60,60,60	0
92	OHX	1	3684	7/7	0.99	0.25	3.35	56,56,56,56	0
92	OHX	5	3724	7/7	0.95	0.30	3.35	36,36,36,36	0
93	MG	1	3875	1/1	0.93	0.49	3.34	44,44,44,44	0
92	OHX	1	3645	7/7	0.98	0.32	3.30	61,61,61,61	0
93	MG	6	2071	1/1	0.81	0.55	3.30	63,63,63,63	0
92	OHX	5	3582	7/7	0.99	0.23	3.29	56,56,56,56	0
92	OHX	5	3709	7/7	0.98	0.31	3.28	68,68,68,68	0
92	OHX	1	3605	7/7	0.93	0.37	3.27	43,43,43,43	0
92	OHX	3	208	7/7	0.97	0.21	3.24	81,81,81,81	0
93	MG	d6	102	1/1	0.91	0.59	3.23	64,64,64,64	0
92	OHX	1	3678	7/7	0.97	0.32	3.22	54,54,54,54	0
92	OHX	5	3641	7/7	0.99	0.27	3.22	59,59,59,59	0
93	MG	1	4107	1/1	0.84	0.27	3.20	39,39,39,39	0
93	MG	1	4034	1/1	0.92	0.25	3.19	34,34,34,34	0
93	MG	2	2080	1/1	0.96	0.31	3.19	82,82,82,82	0
92	OHX	1	3693	7/7	0.98	0.26	3.18	69,69,69,69	0
93	MG	6	2090	1/1	0.97	0.26	3.11	56,56,56,56	0
93	MG	M7	202	1/1	0.63	0.78	3.10	52,52,52,52	0
92	OHX	6	2058	7/7	0.96	0.29	3.08	100,100,100,100	0
93	MG	17	301	1/1	0.98	0.42	3.06	34,34,34,34	0
93	MG	5	4054	1/1	0.92	0.52	3.04	65,65,65,65	0
92	OHX	2	2021	7/7	0.96	0.31	3.03	110,110,110,110	0
93	MG	6	2113	1/1	0.90	0.42	3.02	55,55,55,55	0
92	OHX	5	3648	7/7	0.91	0.34	3.01	64,64,64,64	0
93	MG	2	2131	1/1	0.82	0.35	3.00	80,80,80,80	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
93	MG	1	3832	1/1	0.75	0.39	2.94	31,31,31,31	0
92	OHX	1	3726	7/7	0.96	0.39	2.91	87,87,87,87	0
92	OHX	6	2009	7/7	0.97	0.26	2.90	88,88,88,88	0
93	MG	6	2175	1/1	0.77	0.30	2.89	64,64,64,64	0
93	MG	1	3763	1/1	0.93	0.26	2.89	34,34,34,34	0
92	OHX	5	3602	7/7	0.94	0.24	2.82	84,84,84,84	0
93	MG	7	223	1/1	0.84	0.25	2.80	36,36,36,36	0
93	MG	1	3807	1/1	0.96	0.28	2.79	41,41,41,41	0
92	OHX	8	214	7/7	0.96	0.33	2.77	59,59,59,59	0
92	OHX	1	3663	7/7	0.98	0.25	2.75	71,71,71,71	0
93	MG	6	2134	1/1	0.97	0.28	2.73	57,57,57,57	0
93	MG	1	3816	1/1	0.95	0.29	2.73	41,41,41,41	0
92	OHX	6	1992	7/7	0.98	0.26	2.72	88,88,88,88	0
92	OHX	2	2049	7/7	0.91	0.37	2.70	108,108,108,108	0
93	MG	1	3923	1/1	0.96	0.28	2.70	34,34,34,34	0
92	OHX	6	2012	7/7	0.97	0.29	2.68	76,76,76,76	0
92	OHX	5	3611	7/7	0.99	0.26	2.68	45,45,45,45	0
93	MG	5	3775	1/1	0.98	0.28	2.64	33,33,33,33	0
93	MG	1	3741	1/1	0.92	0.27	2.64	48,48,48,48	0
92	OHX	5	3598	7/7	0.96	0.30	2.63	51,51,51,51	0
92	OHX	1	3569	7/7	0.97	0.29	2.61	63,63,63,63	0
93	MG	5	3753	1/1	0.88	0.29	2.60	32,32,32,32	0
92	OHX	5	3591	7/7	0.98	0.28	2.60	60,60,60,60	0
93	MG	1	4052	1/1	0.97	0.38	2.57	33,33,33,33	0
92	OHX	5	3580	7/7	0.97	0.30	2.55	53,53,53,53	0
92	OHX	S9	201	7/7	0.94	0.46	2.55	93,93,93,93	0
92	OHX	6	2057	7/7	0.93	0.41	2.55	92,92,92,92	0
93	MG	6	2171	1/1	0.89	0.90	2.52	68,68,68,68	0
93	MG	2	2061	1/1	0.83	0.47	2.51	83,83,83,83	0
93	MG	5	3804	1/1	0.87	0.32	2.49	38,38,38,38	0
93	MG	1	4030	1/1	0.96	0.52	2.47	44,44,44,44	0
92	OHX	2	1976	7/7	0.93	0.40	2.47	110,110,110,110	0
93	MG	6	2064	1/1	0.81	0.42	2.44	68,68,68,68	0
92	OHX	5	3737	7/7	0.98	0.26	2.43	85,85,85,85	0
92	OHX	1	3538	7/7	0.96	0.28	2.43	66,66,66,66	0
93	MG	2	2109	1/1	0.93	0.27	2.42	80,80,80,80	0
92	OHX	6	2054	7/7	0.96	0.28	2.38	89,89,89,89	0
93	MG	1	3904	1/1	0.85	0.41	2.38	48,48,48,48	0
93	MG	5	4030	1/1	0.88	0.36	2.37	36,36,36,36	0
92	OHX	1	3607	7/7	0.98	0.21	2.35	62,62,62,62	0
93	MG	6	2126	1/1	0.98	0.46	2.34	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
92	OHX	5	3638	7/7	0.98	0.26	2.32	41,41,41,41	0
93	MG	L4	405	1/1	0.97	0.36	2.31	37,37,37,37	0
92	OHX	5	3601	7/7	0.95	0.25	2.31	44,44,44,44	0
93	MG	s6	301	1/1	0.56	0.95	2.31	67,67,67,67	0
93	MG	1	3864	1/1	0.91	0.26	2.30	30,30,30,30	0
92	OHX	1	3629	7/7	0.98	0.22	2.28	79,79,79,79	0
92	OHX	1	3603	7/7	0.97	0.23	2.27	74,74,74,74	0
92	OHX	6	1990	7/7	0.97	0.21	2.24	79,79,79,79	0
92	OHX	2	1979	7/7	0.98	0.24	2.24	82,82,82,82	0
93	MG	1	3831	1/1	0.96	0.34	2.24	38,38,38,38	0
93	MG	1	3820	1/1	0.98	0.21	2.21	43,43,43,43	0
93	MG	N6	201	1/1	0.80	0.39	2.20	40,40,40,40	0
93	MG	6	2107	1/1	0.86	0.37	2.19	63,63,63,63	0
93	MG	1	4033	1/1	0.98	0.26	2.17	47,47,47,47	0
92	OHX	5	3597	7/7	0.95	0.22	2.16	68,68,68,68	0
92	OHX	2	2043	7/7	0.97	0.33	2.14	85,85,85,85	0
92	OHX	5	3576	7/7	0.98	0.30	2.11	65,65,65,65	0
93	MG	2	2087	1/1	0.90	0.29	2.11	77,77,77,77	0
93	MG	6	2139	1/1	0.89	0.50	2.07	57,57,57,57	0
93	MG	m7	201	1/1	0.91	0.32	2.06	34,34,34,34	0
92	OHX	1	3620	7/7	0.98	0.26	2.05	41,41,41,41	0
92	OHX	6	2042	7/7	0.94	0.26	2.03	94,94,94,94	0
93	MG	5	4005	1/1	0.96	0.23	2.02	36,36,36,36	0
92	OHX	5	3624	7/7	0.98	0.23	2.02	58,58,58,58	0
93	MG	8	217	1/1	0.90	0.21	2.01	36,36,36,36	0
92	OHX	1	3631	7/7	0.96	0.26	1.99	59,59,59,59	0
93	MG	1	4031	1/1	0.97	0.26	1.98	40,40,40,40	0
93	MG	6	2063	1/1	0.88	0.24	1.97	89,89,89,89	0
92	OHX	2	1985	7/7	0.96	0.32	1.96	98,98,98,98	0
92	OHX	1	3658	7/7	0.97	0.34	1.95	65,65,65,65	0
93	MG	5	3998	1/1	0.95	0.32	1.94	35,35,35,35	0
92	OHX	5	3676	7/7	0.98	0.25	1.93	59,59,59,59	0
93	MG	6	2092	1/1	0.60	0.18	1.93	88,88,88,88	0
92	OHX	O4	201	7/7	0.97	0.45	1.93	73,73,73,73	0
92	OHX	5	3542	7/7	0.97	0.21	1.93	57,57,57,57	0
93	MG	5	3986	1/1	0.95	0.19	1.92	49,49,49,49	0
93	MG	m5	304	1/1	0.82	0.35	1.92	47,47,47,47	0
92	OHX	6	1977	7/7	0.97	0.21	1.92	97,97,97,97	0
92	OHX	5	3710	7/7	0.94	0.36	1.90	57,57,57,57	0
92	OHX	1	3683	7/7	0.91	0.36	1.88	87,87,87,87	0
92	OHX	5	3604	7/7	0.98	0.26	1.88	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
93	MG	1	3803	1/1	0.88	0.36	1.87	36,36,36,36	0
93	MG	5	3914	1/1	0.97	0.32	1.87	35,35,35,35	0
92	OHX	2	2035	7/7	0.94	0.26	1.87	107,107,107,107	0
93	MG	d4	202	1/1	0.75	0.26	1.85	65,65,65,65	0
92	OHX	6	1969	7/7	0.97	0.19	1.85	99,99,99,99	0
92	OHX	5	3528	7/7	0.97	0.23	1.84	46,46,46,46	0
93	MG	6	2170	1/1	0.85	0.46	1.84	64,64,64,64	0
92	OHX	3	210	7/7	0.96	0.40	1.84	85,85,85,85	0
93	MG	1	3752	1/1	0.81	0.30	1.83	38,38,38,38	0
92	OHX	1	3640	7/7	0.98	0.34	1.79	63,63,63,63	0
92	OHX	1	3669	7/7	0.97	0.27	1.79	63,63,63,63	0
93	MG	5	3838	1/1	0.92	0.36	1.79	37,37,37,37	0
92	OHX	1	3657	7/7	0.97	0.25	1.79	50,50,50,50	0
92	OHX	4	211	7/7	0.98	0.23	1.78	63,63,63,63	0
93	MG	5	3897	1/1	0.76	0.42	1.76	48,48,48,48	0
92	OHX	4	209	7/7	0.98	0.27	1.75	56,56,56,56	0
92	OHX	6	2013	7/7	0.96	0.28	1.75	72,72,72,72	0
92	OHX	6	2025	7/7	0.95	0.34	1.73	70,70,70,70	0
92	OHX	5	3562	7/7	0.98	0.22	1.72	60,60,60,60	0
93	MG	5	3885	1/1	0.97	0.41	1.71	32,32,32,32	0
92	OHX	1	3676	7/7	0.96	0.26	1.69	64,64,64,64	0
92	OHX	4	221	7/7	0.97	0.30	1.67	61,61,61,61	0
93	MG	6	2168	1/1	0.96	0.24	1.66	57,57,57,57	0
93	MG	6	2094	1/1	0.83	0.27	1.65	77,77,77,77	0
92	OHX	1	3566	7/7	0.98	0.23	1.63	57,57,57,57	0
93	MG	C1	201	1/1	0.47	0.61	1.62	76,76,76,76	0
92	OHX	1	3713	7/7	0.98	0.38	1.62	58,58,58,58	0
92	OHX	2	2023	7/7	0.95	0.28	1.62	91,91,91,91	0
92	OHX	1	3542	7/7	0.97	0.22	1.60	60,60,60,60	0
92	OHX	5	3619	7/7	0.97	0.30	1.59	68,68,68,68	0
92	OHX	5	3585	7/7	0.97	0.29	1.59	58,58,58,58	0
92	OHX	2	2011	7/7	0.93	0.35	1.56	104,104,104,104	0
92	OHX	5	3587	7/7	0.97	0.25	1.56	47,47,47,47	0
92	OHX	6	1965	7/7	0.98	0.24	1.55	77,77,77,77	0
92	OHX	5	3628	7/7	0.97	0.17	1.54	60,60,60,60	0
93	MG	5	4049	1/1	0.88	0.27	1.54	36,36,36,36	0
92	OHX	2	1988	7/7	0.97	0.26	1.51	87,87,87,87	0
92	OHX	5	3743	7/7	0.97	0.29	1.49	70,70,70,70	0
93	MG	5	3953	1/1	0.94	0.34	1.47	39,39,39,39	0
92	OHX	1	3591	7/7	0.96	0.21	1.46	92,92,92,92	0
92	OHX	2	1999	7/7	0.95	0.36	1.46	106,106,106,106	0
92	OHX	5	3634	7/7	0.97	0.45	1.46	70,70,70,70	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
93	MG	l2	302	1/1	0.92	0.34	1.43	41,41,41,41	0
92	OHX	6	1976	7/7	0.99	0.21	1.41	58,58,58,58	0
92	OHX	4	220	7/7	0.97	0.32	1.37	66,66,66,66	0
92	OHX	2	2048	7/7	0.88	0.25	1.37	100,100,100,100	0
92	OHX	5	3536	7/7	0.96	0.18	1.36	65,65,65,65	0
92	OHX	1	3589	7/7	0.95	0.23	1.36	45,45,45,45	0
92	OHX	1	3644	7/7	0.97	0.27	1.35	48,48,48,48	0
92	OHX	2	2032	7/7	0.94	0.36	1.34	106,106,106,106	0
92	OHX	2	1970	7/7	0.96	0.35	1.33	98,98,98,98	0
93	MG	5	3871	1/1	0.91	0.42	1.32	59,59,59,59	0
93	MG	m7	203	1/1	0.89	0.29	1.29	33,33,33,33	0
93	MG	2	2122	1/1	0.93	0.26	1.28	74,74,74,74	0
92	OHX	5	3646	7/7	0.96	0.32	1.28	56,56,56,56	0
93	MG	1	3931	1/1	0.92	0.39	1.28	60,60,60,60	0
92	OHX	5	3618	7/7	0.97	0.33	1.28	74,74,74,74	0
92	OHX	6	2002	7/7	0.94	0.27	1.27	71,71,71,71	0
93	MG	5	4043	1/1	0.84	0.30	1.27	41,41,41,41	0
92	OHX	1	3524	7/7	0.98	0.21	1.27	59,59,59,59	0
93	MG	5	3888	1/1	0.94	0.32	1.26	61,61,61,61	0
92	OHX	6	2044	7/7	0.95	0.29	1.25	63,63,63,63	0
93	MG	n6	202	1/1	0.90	0.31	1.25	42,42,42,42	0
92	OHX	6	1988	7/7	0.95	0.30	1.25	82,82,82,82	0
92	OHX	2	1941	7/7	0.98	0.25	1.23	93,93,93,93	0
92	OHX	5	3589	7/7	0.97	0.24	1.23	46,46,46,46	0
92	OHX	1	3528	7/7	0.98	0.28	1.21	52,52,52,52	0
92	OHX	8	216	7/7	0.97	0.38	1.17	60,60,60,60	0
93	MG	2	2092	1/1	0.74	0.37	1.17	80,80,80,80	0
93	MG	5	3899	1/1	0.95	0.34	1.16	37,37,37,37	0
93	MG	6	2116	1/1	0.93	0.33	1.15	63,63,63,63	0
92	OHX	6	1970	7/7	0.92	0.52	1.13	105,105,105,105	0
92	OHX	6	1984	7/7	0.98	0.36	1.12	87,87,87,87	0
92	OHX	s9	201	7/7	0.95	0.34	1.12	77,77,77,77	0
93	MG	1	3817	1/1	0.94	0.23	1.11	34,34,34,34	0
93	MG	6	2121	1/1	0.93	0.32	1.11	62,62,62,62	0
93	MG	2	2130	1/1	0.89	0.20	1.11	85,85,85,85	0
92	OHX	1	3587	7/7	0.98	0.21	1.11	46,46,46,46	0
92	OHX	2	1986	7/7	0.93	0.33	1.10	107,107,107,107	0
92	OHX	O9	101	7/7	0.97	0.38	1.10	49,49,49,49	0
93	MG	1	3893	1/1	0.94	0.30	1.09	32,32,32,32	0
93	MG	2	2086	1/1	0.87	0.29	1.09	71,71,71,71	0
92	OHX	1	3696	7/7	0.94	0.31	1.06	64,64,64,64	0
92	OHX	6	2040	7/7	0.93	0.34	1.06	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
92	OHX	1	3623	7/7	0.99	0.27	1.04	54,54,54,54	0
92	OHX	1	3694	7/7	0.94	0.31	1.03	80,80,80,80	0
92	OHX	2	2046	7/7	0.94	0.39	1.02	100,100,100,100	0
92	OHX	5	3669	7/7	0.96	0.30	1.02	60,60,60,60	0
92	OHX	5	3544	7/7	0.98	0.21	1.01	45,45,45,45	0
93	MG	1	3775	1/1	0.94	0.34	1.00	44,44,44,44	0
92	OHX	6	2048	7/7	0.93	0.29	0.99	77,77,77,77	0
92	OHX	1	3716	7/7	0.95	0.29	0.99	51,51,51,51	0
92	OHX	1	3611	7/7	0.98	0.29	0.99	64,64,64,64	0
92	OHX	6	1998	7/7	0.94	0.24	0.98	65,65,65,65	0
93	MG	1	4086	1/1	0.97	0.37	0.98	39,39,39,39	0
92	OHX	1	3711	7/7	0.98	0.24	0.98	56,56,56,56	0
92	OHX	2	1963	7/7	0.97	0.24	0.96	73,73,73,73	0
92	OHX	5	3574	7/7	0.99	0.19	0.95	60,60,60,60	0
93	MG	1	3891	1/1	0.92	0.32	0.95	40,40,40,40	0
92	OHX	2	2015	7/7	0.93	0.30	0.95	92,92,92,92	0
92	OHX	1	3575	7/7	0.98	0.24	0.95	57,57,57,57	0
92	OHX	1	3723	7/7	0.95	0.37	0.94	76,76,76,76	0
92	OHX	5	3496	7/7	0.99	0.25	0.93	47,47,47,47	0
92	OHX	1	3668	7/7	0.95	0.34	0.93	92,92,92,92	0
92	OHX	1	3616	7/7	0.98	0.19	0.92	64,64,64,64	0
92	OHX	5	3675	7/7	0.98	0.23	0.91	43,43,43,43	0
92	OHX	6	1993	7/7	0.96	0.20	0.90	99,99,99,99	0
92	OHX	D9	102	7/7	0.96	0.37	0.88	98,98,98,98	0
93	MG	5	3819	1/1	0.96	0.26	0.87	43,43,43,43	0
93	MG	5	4074	1/1	0.98	0.30	0.87	37,37,37,37	0
93	MG	2	2096	1/1	0.87	0.22	0.87	75,75,75,75	0
92	OHX	1	3543	7/7	0.97	0.21	0.86	69,69,69,69	0
92	OHX	1	3689	7/7	0.97	0.32	0.86	65,65,65,65	0
93	MG	N0	202	1/1	0.82	0.37	0.86	44,44,44,44	0
92	OHX	1	3489	7/7	0.96	0.20	0.84	47,47,47,47	0
92	OHX	5	3654	7/7	0.99	0.31	0.84	54,54,54,54	0
92	OHX	1	3635	7/7	0.98	0.22	0.81	57,57,57,57	0
93	MG	C9	201	1/1	0.82	0.49	0.80	96,96,96,96	0
92	OHX	2	1931	7/7	0.98	0.28	0.80	95,95,95,95	0
92	OHX	5	3605	7/7	0.97	0.26	0.78	46,46,46,46	0
92	OHX	6	2028	7/7	0.98	0.23	0.78	62,62,62,62	0
93	MG	5	3846	1/1	0.99	0.22	0.77	45,45,45,45	0
93	MG	5	4132	1/1	0.99	0.22	0.76	32,32,32,32	0
92	OHX	5	3745	7/7	0.96	0.18	0.74	59,59,59,59	0
93	MG	5	3765	1/1	0.94	0.23	0.74	34,34,34,34	0
93	MG	5	4105	1/1	0.92	0.31	0.73	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
93	MG	1	3813	1/1	0.99	0.23	0.73	47,47,47,47	0
92	OHX	1	3619	7/7	0.97	0.28	0.73	59,59,59,59	0
92	OHX	2	1978	7/7	0.96	0.25	0.72	103,103,103,103	0
93	MG	1	3732	1/1	0.96	0.22	0.72	47,47,47,47	0
92	OHX	6	1978	7/7	0.98	0.24	0.70	90,90,90,90	0
93	MG	1	4057	1/1	0.98	0.22	0.69	34,34,34,34	0
92	OHX	2	2020	7/7	0.95	0.27	0.69	96,96,96,96	0
92	OHX	3	206	7/7	0.97	0.15	0.68	69,69,69,69	0
92	OHX	5	3642	7/7	0.96	0.23	0.67	72,72,72,72	0
92	OHX	1	3571	7/7	0.98	0.24	0.67	58,58,58,58	0
93	MG	L2	302	1/1	0.97	0.29	0.66	42,42,42,42	0
93	MG	5	4008	1/1	0.93	0.23	0.66	33,33,33,33	0
92	OHX	d4	201	7/7	0.96	0.39	0.66	84,84,84,84	0
93	MG	L2	301	1/1	0.95	0.29	0.65	42,42,42,42	0
92	OHX	1	3551	7/7	0.96	0.23	0.65	75,75,75,75	0
92	OHX	6	2019	7/7	0.94	0.34	0.63	75,75,75,75	0
92	OHX	6	2008	7/7	0.96	0.26	0.62	100,100,100,100	0
92	OHX	1	3679	7/7	0.97	0.26	0.60	84,84,84,84	0
93	MG	5	3936	1/1	0.88	0.33	0.60	31,31,31,31	0
92	OHX	6	1996	7/7	0.97	0.31	0.60	78,78,78,78	0
93	MG	5	3750	1/1	0.96	0.22	0.60	36,36,36,36	0
92	OHX	L6	202	7/7	0.99	0.32	0.59	62,62,62,62	0
92	OHX	6	2049	7/7	0.97	0.40	0.58	81,81,81,81	0
92	OHX	1	3695	7/7	0.96	0.27	0.57	73,73,73,73	0
92	OHX	5	3656	7/7	0.97	0.20	0.57	71,71,71,71	0
92	OHX	6	2026	7/7	0.97	0.49	0.56	90,90,90,90	0
92	OHX	1	3612	7/7	0.98	0.25	0.55	57,57,57,57	0
92	OHX	5	3563	7/7	0.97	0.19	0.54	70,70,70,70	0
92	OHX	5	3663	7/7	0.99	0.22	0.54	47,47,47,47	0
92	OHX	2	2012	7/7	0.90	0.26	0.53	108,108,108,108	0
92	OHX	M8	201	7/7	0.97	0.33	0.52	65,65,65,65	0
92	OHX	6	1985	7/7	0.98	0.30	0.52	91,91,91,91	0
92	OHX	5	3730	7/7	0.96	0.26	0.52	74,74,74,74	0
92	OHX	m8	201	7/7	0.97	0.30	0.51	60,60,60,60	0
92	OHX	5	3616	7/7	0.98	0.21	0.51	54,54,54,54	0
93	MG	D9	104	1/1	0.96	0.29	0.50	89,89,89,89	0
92	OHX	2	1994	7/7	0.90	0.30	0.49	98,98,98,98	0
93	MG	1	3908	1/1	0.97	0.22	0.49	53,53,53,53	0
92	OHX	l3	402	7/7	0.94	0.46	0.48	67,67,67,67	0
92	OHX	1	3507	7/7	0.99	0.20	0.47	50,50,50,50	0
92	OHX	2	1932	7/7	0.96	0.23	0.47	76,76,76,76	0
92	OHX	1	3608	7/7	0.97	0.20	0.46	63,63,63,63	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
93	MG	5	4151	1/1	0.98	0.21	0.45	34,34,34,34	0
92	OHX	L4	401	7/7	0.97	0.30	0.43	54,54,54,54	0
93	MG	1	3924	1/1	0.98	0.23	0.43	41,41,41,41	0
93	MG	o2	202	1/1	0.88	0.32	0.42	32,32,32,32	0
92	OHX	5	3692	7/7	0.98	0.27	0.42	64,64,64,64	0
92	OHX	2	1982	7/7	0.95	0.24	0.42	94,94,94,94	0
92	OHX	1	3637	7/7	0.97	0.19	0.42	75,75,75,75	0
92	OHX	5	3560	7/7	0.97	0.17	0.39	79,79,79,79	0
92	OHX	6	1966	7/7	0.97	0.25	0.38	69,69,69,69	0
92	OHX	7	207	7/7	0.98	0.17	0.37	59,59,59,59	0
92	OHX	2	1957	7/7	0.98	0.28	0.36	85,85,85,85	0
92	OHX	2	1972	7/7	0.97	0.26	0.36	105,105,105,105	0
92	OHX	1	3548	7/7	0.99	0.17	0.35	58,58,58,58	0
92	OHX	5	3507	7/7	0.99	0.21	0.35	52,52,52,52	0
92	OHX	5	3557	7/7	0.97	0.22	0.34	83,83,83,83	0
92	OHX	2	1962	7/7	0.98	0.20	0.33	86,86,86,86	0
92	OHX	1	3601	7/7	0.99	0.23	0.33	63,63,63,63	0
93	MG	1	4092	1/1	0.96	0.20	0.31	33,33,33,33	0
92	OHX	M0	301	7/7	0.97	0.25	0.31	55,55,55,55	0
93	MG	6	2077	1/1	0.86	0.29	0.30	55,55,55,55	0
93	MG	N6	202	1/1	0.97	0.23	0.30	37,37,37,37	0
93	MG	1	3811	1/1	0.94	0.18	0.29	40,40,40,40	0
93	MG	c6	201	1/1	0.73	0.43	0.28	90,90,90,90	0
92	OHX	2	1993	7/7	0.97	0.24	0.28	96,96,96,96	0
93	MG	5	3852	1/1	0.98	0.27	0.28	41,41,41,41	0
93	MG	1	4076	1/1	0.78	0.29	0.28	59,59,59,59	0
92	OHX	6	1991	7/7	0.97	0.20	0.27	81,81,81,81	0
92	OHX	1	3650	7/7	0.98	0.19	0.27	64,64,64,64	0
92	OHX	6	2027	7/7	0.96	0.37	0.25	91,91,91,91	0
93	MG	N8	204	1/1	0.86	0.25	0.24	44,44,44,44	0
92	OHX	5	3651	7/7	0.98	0.23	0.24	50,50,50,50	0
93	MG	L4	404	1/1	0.98	0.20	0.23	33,33,33,33	0
92	OHX	m0	302	7/7	0.99	0.26	0.22	49,49,49,49	0
92	OHX	1	3554	7/7	0.98	0.21	0.22	63,63,63,63	0
92	OHX	8	204	7/7	0.98	0.19	0.22	58,58,58,58	0
92	OHX	L3	401	7/7	0.98	0.20	0.21	65,65,65,65	0
92	OHX	2	2038	7/7	0.94	0.32	0.19	95,95,95,95	0
92	OHX	5	3579	7/7	0.98	0.17	0.16	63,63,63,63	0
93	MG	l3	404	1/1	0.86	0.25	0.15	32,32,32,32	0
92	OHX	2	2001	7/7	0.97	0.21	0.15	99,99,99,99	0
93	MG	1	3785	1/1	0.86	0.31	0.14	57,57,57,57	0
92	OHX	1	3427	7/7	0.99	0.15	0.13	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
98	8AN	p	101	22/23	0.91	0.24	0.12	33,34,35,35	0
97	SPS	1	3403	23/23	0.93	0.22	0.11	37,37,48,51	0
93	MG	5	3909	1/1	0.98	0.20	0.11	31,31,31,31	0
92	OHX	8	208	7/7	0.98	0.17	0.10	66,66,66,66	0
92	OHX	2	1943	7/7	0.96	0.29	0.10	101,101,101,101	0
92	OHX	6	2014	7/7	0.97	0.25	0.10	64,64,64,64	0
92	OHX	5	3685	7/7	0.98	0.22	0.09	73,73,73,73	0
92	OHX	6	1957	7/7	0.96	0.20	0.08	72,72,72,72	0
93	MG	6	2104	1/1	0.89	0.28	0.08	90,90,90,90	0
92	OHX	6	1980	7/7	0.94	0.18	0.06	112,112,112,112	0
92	OHX	19	201	7/7	0.98	0.20	0.05	60,60,60,60	0
92	OHX	6	2023	7/7	0.94	0.43	0.04	91,91,91,91	0
93	MG	7	220	1/1	0.95	0.14	0.04	48,48,48,48	0
92	OHX	2	2006	7/7	0.98	0.27	0.03	98,98,98,98	0
93	MG	1	4029	1/1	0.89	0.20	0.03	43,43,43,43	0
93	MG	N8	206	1/1	0.94	0.31	0.03	37,37,37,37	0
92	OHX	5	3712	7/7	0.98	0.29	0.01	48,48,48,48	0
93	MG	2	2105	1/1	0.90	0.22	-0.00	96,96,96,96	0
92	OHX	5	3506	7/7	0.99	0.22	-0.01	39,39,39,39	0
92	OHX	1	3656	7/7	0.98	0.23	-0.01	74,74,74,74	0
93	MG	2	2098	1/1	0.71	0.21	-0.01	87,87,87,87	0
93	MG	2	2073	1/1	0.85	0.29	-0.01	93,93,93,93	0
92	OHX	5	3530	7/7	0.97	0.23	-0.01	42,42,42,42	0
92	OHX	15	302	7/7	0.96	0.35	-0.04	70,70,70,70	0
92	OHX	1	3526	7/7	0.98	0.17	-0.04	77,77,77,77	0
92	OHX	M5	302	7/7	0.98	0.22	-0.04	61,61,61,61	0
92	OHX	5	3501	7/7	0.98	0.17	-0.05	63,63,63,63	0
92	OHX	5	3603	7/7	0.99	0.22	-0.06	64,64,64,64	0
92	OHX	6	1987	7/7	0.94	0.25	-0.07	89,89,89,89	0
93	MG	5	3770	1/1	0.94	0.20	-0.07	51,51,51,51	0
92	OHX	2	2004	7/7	0.96	0.30	-0.08	96,96,96,96	0
93	MG	1	3738	1/1	0.90	0.21	-0.08	48,48,48,48	0
92	OHX	5	3524	7/7	0.98	0.20	-0.08	50,50,50,50	0
92	OHX	6	1973	7/7	0.94	0.21	-0.08	68,68,68,68	0
92	OHX	1	3523	7/7	0.98	0.16	-0.09	58,58,58,58	0
92	OHX	1	3588	7/7	0.96	0.17	-0.10	81,81,81,81	0
93	MG	sM	201	1/1	0.71	0.30	-0.11	45,45,45,45	0
92	OHX	5	3593	7/7	0.98	0.18	-0.12	54,54,54,54	0
92	OHX	5	3673	7/7	0.97	0.23	-0.12	76,76,76,76	0
93	MG	1	3878	1/1	0.98	0.24	-0.12	39,39,39,39	0
92	OHX	4	214	7/7	0.99	0.20	-0.13	70,70,70,70	0
92	OHX	6	2006	7/7	0.96	0.24	-0.13	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
92	OHX	5	3552	7/7	0.97	0.20	-0.14	46,46,46,46	0
92	OHX	6	1971	7/7	0.98	0.21	-0.14	55,55,55,55	0
97	SPS	5	3403	23/23	0.93	0.24	-0.14	33,34,45,47	0
92	OHX	2	1942	7/7	0.98	0.24	-0.15	84,84,84,84	0
93	MG	s4	302	1/1	0.91	0.26	-0.17	63,63,63,63	0
93	MG	1	4010	1/1	0.97	0.19	-0.18	37,37,37,37	0
92	OHX	6	1944	7/7	0.99	0.18	-0.18	71,71,71,71	0
92	OHX	5	3514	7/7	0.98	0.19	-0.19	52,52,52,52	0
92	OHX	4	208	7/7	0.98	0.21	-0.20	69,69,69,69	0
93	MG	5	3967	1/1	0.96	0.21	-0.20	35,35,35,35	0
92	OHX	6	1952	7/7	0.97	0.17	-0.22	80,80,80,80	0
93	MG	4	236	1/1	0.68	0.22	-0.22	43,43,43,43	0
92	OHX	5	3555	7/7	0.99	0.18	-0.23	52,52,52,52	0
92	OHX	3	207	7/7	0.98	0.14	-0.23	68,68,68,68	0
93	MG	1	4012	1/1	0.96	0.16	-0.23	50,50,50,50	0
93	MG	5	3763	1/1	0.85	0.18	-0.23	50,50,50,50	0
93	MG	1	3755	1/1	0.89	0.25	-0.24	35,35,35,35	0
92	OHX	1	3574	7/7	0.98	0.17	-0.25	73,73,73,73	0
92	OHX	6	1989	7/7	0.96	0.34	-0.26	97,97,97,97	0
92	OHX	2	2003	7/7	0.95	0.23	-0.27	100,100,100,100	0
92	OHX	6	1979	7/7	0.98	0.23	-0.28	62,62,62,62	0
92	OHX	2	2000	7/7	0.97	0.23	-0.28	95,95,95,95	0
92	OHX	6	1997	7/7	0.96	0.29	-0.29	83,83,83,83	0
93	MG	O7	104	1/1	0.93	0.20	-0.29	42,42,42,42	0
92	OHX	6	2039	7/7	0.94	0.22	-0.29	94,94,94,94	0
92	OHX	4	205	7/7	0.99	0.19	-0.29	46,46,46,46	0
92	OHX	5	3627	7/7	0.96	0.16	-0.30	84,84,84,84	0
93	MG	5	3756	1/1	0.94	0.18	-0.30	34,34,34,34	0
92	OHX	1	3532	7/7	0.99	0.20	-0.30	55,55,55,55	0
92	OHX	6	1981	7/7	0.97	0.20	-0.30	87,87,87,87	0
93	MG	6	2060	1/1	0.96	0.22	-0.30	63,63,63,63	0
92	OHX	1	3520	7/7	0.99	0.21	-0.30	53,53,53,53	0
92	OHX	5	3546	7/7	0.98	0.22	-0.31	49,49,49,49	0
92	OHX	5	3508	7/7	0.98	0.21	-0.32	61,61,61,61	0
92	OHX	5	3517	7/7	0.99	0.17	-0.34	51,51,51,51	0
92	OHX	1	3563	7/7	0.98	0.19	-0.34	58,58,58,58	0
92	OHX	5	3621	7/7	0.98	0.18	-0.35	76,76,76,76	0
92	OHX	1	3530	7/7	0.97	0.21	-0.35	60,60,60,60	0
92	OHX	5	3566	7/7	0.99	0.16	-0.36	55,55,55,55	0
93	MG	6	2122	1/1	0.95	0.16	-0.36	74,74,74,74	0
92	OHX	1	3535	7/7	0.98	0.13	-0.37	70,70,70,70	0
92	OHX	5	3409	7/7	0.99	0.17	-0.37	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
92	OHX	1	3496	7/7	0.97	0.14	-0.38	56,56,56,56	0
92	OHX	5	3408	7/7	1.00	0.20	-0.38	44,44,44,44	0
93	MG	5	3878	1/1	0.96	0.15	-0.40	45,45,45,45	0
93	MG	6	2112	1/1	0.96	0.22	-0.40	63,63,63,63	0
93	MG	6	2149	1/1	0.94	0.20	-0.41	73,73,73,73	0
92	OHX	L3	402	7/7	0.97	0.19	-0.41	62,62,62,62	0
92	OHX	5	3495	7/7	0.97	0.17	-0.41	57,57,57,57	0
93	MG	1	4020	1/1	0.91	0.14	-0.41	49,49,49,49	0
92	OHX	O7	102	7/7	0.96	0.20	-0.41	52,52,52,52	0
92	OHX	C7	201	7/7	0.96	0.25	-0.42	106,106,106,106	0
92	OHX	5	3444	7/7	0.97	0.16	-0.42	51,51,51,51	0
92	OHX	1	3503	7/7	0.98	0.19	-0.42	46,46,46,46	0
92	OHX	2	2022	7/7	0.97	0.24	-0.43	105,105,105,105	0
92	OHX	5	3497	7/7	0.99	0.19	-0.43	71,71,71,71	0
92	OHX	2	1934	7/7	0.99	0.24	-0.43	94,94,94,94	0
92	OHX	1	3690	7/7	0.97	0.20	-0.44	57,57,57,57	0
92	OHX	1	3572	7/7	0.98	0.18	-0.44	64,64,64,64	0
92	OHX	2	1974	7/7	0.93	0.23	-0.44	112,112,112,112	0
92	OHX	1	3502	7/7	0.94	0.16	-0.46	66,66,66,66	0
92	OHX	1	3581	7/7	0.98	0.14	-0.47	79,79,79,79	0
92	OHX	5	3543	7/7	0.96	0.20	-0.49	53,53,53,53	0
92	OHX	s4	301	7/7	0.97	0.29	-0.49	90,90,90,90	0
92	OHX	O3	201	7/7	0.99	0.20	-0.49	55,55,55,55	0
93	MG	O4	202	1/1	0.85	0.20	-0.50	61,61,61,61	0
92	OHX	1	3580	7/7	0.99	0.15	-0.50	67,67,67,67	0
92	OHX	5	3714	7/7	0.96	0.18	-0.50	39,39,39,39	0
92	OHX	2	2050	7/7	0.93	0.20	-0.52	115,115,115,115	0
92	OHX	5	3586	7/7	0.99	0.18	-0.52	51,51,51,51	0
92	OHX	3	205	7/7	0.99	0.12	-0.53	69,69,69,69	0
92	OHX	5	3612	7/7	0.97	0.21	-0.53	49,49,49,49	0
92	OHX	2	1983	7/7	0.98	0.20	-0.53	81,81,81,81	0
93	MG	6	2146	1/1	0.92	0.18	-0.57	75,75,75,75	0
92	OHX	5	3498	7/7	0.96	0.17	-0.58	62,62,62,62	0
92	OHX	5	3534	7/7	0.98	0.20	-0.58	51,51,51,51	0
92	OHX	5	3476	7/7	0.96	0.20	-0.59	42,42,42,42	0
92	OHX	5	3550	7/7	0.98	0.14	-0.59	79,79,79,79	0
92	OHX	1	3562	7/7	0.98	0.20	-0.59	64,64,64,64	0
92	OHX	5	3584	7/7	0.99	0.16	-0.59	52,52,52,52	0
93	MG	6	2110	1/1	0.94	0.21	-0.59	91,91,91,91	0
92	OHX	5	3672	7/7	0.94	0.22	-0.60	103,103,103,103	0
94	ZN	D7	101	1/1	0.71	0.28	-0.62	100,100,100,100	0
93	MG	1	3746	1/1	0.96	0.17	-0.62	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
92	OHX	2	2010	7/7	0.98	0.21	-0.63	85,85,85,85	0
92	OHX	1	3568	7/7	0.98	0.20	-0.63	45,45,45,45	0
92	OHX	2	1956	7/7	0.97	0.21	-0.63	92,92,92,92	0
92	OHX	1	3518	7/7	0.97	0.19	-0.64	57,57,57,57	0
93	MG	2	2090	1/1	0.95	0.17	-0.65	83,83,83,83	0
92	OHX	2	1987	7/7	0.98	0.17	-0.65	94,94,94,94	0
92	OHX	3	202	7/7	0.99	0.19	-0.65	54,54,54,54	0
92	OHX	1	3549	7/7	0.95	0.17	-0.65	91,91,91,91	0
92	OHX	5	3521	7/7	0.99	0.16	-0.65	60,60,60,60	0
93	MG	6	2140	1/1	0.70	0.11	-0.66	71,71,71,71	0
92	OHX	5	3595	7/7	0.97	0.17	-0.66	76,76,76,76	0
92	OHX	2	2040	7/7	0.97	0.22	-0.67	97,97,97,97	0
92	OHX	1	3506	7/7	0.98	0.19	-0.69	66,66,66,66	0
92	OHX	1	3407	7/7	0.99	0.14	-0.69	52,52,52,52	0
93	MG	c9	201	1/1	0.85	0.16	-0.69	90,90,90,90	0
92	OHX	5	3456	7/7	0.98	0.20	-0.69	41,41,41,41	0
92	OHX	sR	401	7/7	0.95	0.21	-0.70	116,116,116,116	0
92	OHX	1	3409	7/7	0.99	0.12	-0.70	41,41,41,41	0
92	OHX	5	3588	7/7	0.99	0.18	-0.70	44,44,44,44	0
92	OHX	6	2018	7/7	0.94	0.20	-0.70	114,114,114,114	0
92	OHX	1	3585	7/7	0.98	0.19	-0.71	80,80,80,80	0
92	OHX	5	3722	7/7	0.95	0.26	-0.71	99,99,99,99	0
92	OHX	2	1946	7/7	0.96	0.17	-0.72	99,99,99,99	0
92	OHX	3	204	7/7	0.98	0.19	-0.72	49,49,49,49	0
92	OHX	4	204	7/7	0.98	0.15	-0.73	51,51,51,51	0
92	OHX	1	3730	7/7	0.98	0.13	-0.74	60,60,60,60	0
93	MG	5	4051	1/1	0.98	0.14	-0.75	48,48,48,48	0
92	OHX	2	1967	7/7	0.97	0.16	-0.76	85,85,85,85	0
93	MG	5	3960	1/1	0.96	0.19	-0.77	39,39,39,39	0
92	OHX	2	1950	7/7	0.95	0.27	-0.77	101,101,101,101	0
92	OHX	1	3517	7/7	0.98	0.13	-0.78	73,73,73,73	0
92	OHX	5	3696	7/7	0.96	0.22	-0.78	92,92,92,92	0
92	OHX	5	3715	7/7	0.97	0.24	-0.78	95,95,95,95	0
92	OHX	C5	201	7/7	0.93	0.24	-0.78	105,105,105,105	0
92	OHX	6	1962	7/7	0.99	0.17	-0.80	69,69,69,69	0
93	MG	5	4014	1/1	0.98	0.18	-0.81	35,35,35,35	0
92	OHX	6	2059	7/7	0.94	0.28	-0.81	103,103,103,103	0
92	OHX	6	1960	7/7	0.96	0.17	-0.82	77,77,77,77	0
93	MG	6	2089	1/1	0.91	0.24	-0.83	70,70,70,70	0
93	MG	6	2173	1/1	0.96	0.23	-0.83	70,70,70,70	0
93	MG	5	3979	1/1	0.91	0.15	-0.84	48,48,48,48	0
93	MG	1	3995	1/1	0.99	0.19	-0.85	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
92	OHX	1	3539	7/7	0.99	0.15	-0.85	54,54,54,54	0
92	OHX	5	3538	7/7	0.98	0.18	-0.86	73,73,73,73	0
93	MG	6	2097	1/1	0.89	0.18	-0.86	92,92,92,92	0
93	MG	2	2137	1/1	0.96	0.11	-0.86	85,85,85,85	0
92	OHX	1	3433	7/7	0.98	0.15	-0.86	55,55,55,55	0
94	ZN	d7	101	1/1	0.86	0.21	-0.86	89,89,89,89	0
92	OHX	1	3552	7/7	0.97	0.20	-0.87	60,60,60,60	0
92	OHX	5	3486	7/7	0.99	0.17	-0.87	52,52,52,52	0
92	OHX	6	1958	7/7	0.96	0.19	-0.90	89,89,89,89	0
92	OHX	7	206	7/7	0.99	0.13	-0.91	56,56,56,56	0
92	OHX	6	1919	7/7	0.97	0.16	-0.91	74,74,74,74	0
92	OHX	2	2005	7/7	0.98	0.21	-0.92	84,84,84,84	0
92	OHX	1	3565	7/7	0.99	0.16	-0.92	50,50,50,50	0
92	OHX	2	1955	7/7	0.98	0.20	-0.94	96,96,96,96	0
93	MG	5	4072	1/1	0.95	0.18	-0.94	40,40,40,40	0
93	MG	2	2129	1/1	0.95	0.14	-0.94	80,80,80,80	0
92	OHX	3	203	7/7	0.97	0.16	-0.95	59,59,59,59	0
92	OHX	2	1971	7/7	0.95	0.17	-0.95	108,108,108,108	0
92	OHX	5	3483	7/7	0.98	0.14	-0.95	57,57,57,57	0
93	MG	2	2116	1/1	0.91	0.14	-0.96	85,85,85,85	0
92	OHX	5	3540	7/7	0.98	0.18	-0.96	55,55,55,55	0
92	OHX	1	3522	7/7	0.99	0.13	-0.98	62,62,62,62	0
93	MG	o4	201	1/1	0.89	0.14	-0.98	63,63,63,63	0
92	OHX	1	3545	7/7	0.98	0.12	-0.98	77,77,77,77	0
92	OHX	5	3608	7/7	0.99	0.19	-0.99	40,40,40,40	0
92	OHX	5	3553	7/7	0.98	0.17	-0.99	54,54,54,54	0
92	OHX	5	3414	7/7	0.99	0.15	-1.00	47,47,47,47	0
92	OHX	2	1925	7/7	0.96	0.15	-1.00	85,85,85,85	0
92	OHX	6	1953	7/7	0.96	0.14	-1.00	109,109,109,109	0
92	OHX	6	1949	7/7	0.96	0.19	-1.01	81,81,81,81	0
93	MG	5	3776	1/1	0.93	0.19	-1.02	33,33,33,33	0
93	MG	5	4036	1/1	0.76	0.23	-1.03	89,89,89,89	0
92	OHX	1	3405	7/7	0.99	0.18	-1.04	43,43,43,43	0
92	OHX	1	3586	7/7	0.98	0.16	-1.06	74,74,74,74	0
92	OHX	2	1945	7/7	0.95	0.16	-1.06	90,90,90,90	0
94	ZN	q3	501	1/1	0.99	0.12	-1.09	55,55,55,55	0
92	OHX	1	3534	7/7	0.97	0.21	-1.09	55,55,55,55	0
93	MG	1	3821	1/1	0.95	0.19	-1.09	49,49,49,49	0
92	OHX	5	3520	7/7	0.99	0.19	-1.10	48,48,48,48	0
92	OHX	S8	301	7/7	0.94	0.31	-1.10	96,96,96,96	0
92	OHX	o7	503	7/7	0.97	0.12	-1.10	59,59,59,59	0
92	OHX	2	1938	7/7	0.97	0.21	-1.11	79,79,79,79	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
92	OHX	l5	301	7/7	0.98	0.17	-1.11	77,77,77,77	0
92	OHX	2	1901	7/7	0.99	0.19	-1.11	78,78,78,78	0
92	OHX	2	1926	7/7	0.95	0.14	-1.11	91,91,91,91	0
92	OHX	2	1921	7/7	0.98	0.22	-1.11	97,97,97,97	0
92	OHX	5	3532	7/7	0.97	0.15	-1.12	84,84,84,84	0
92	OHX	8	203	7/7	0.98	0.15	-1.12	56,56,56,56	0
92	OHX	1	3686	7/7	0.98	0.20	-1.12	65,65,65,65	0
92	OHX	o7	502	7/7	0.99	0.13	-1.15	54,54,54,54	0
92	OHX	5	3469	7/7	0.97	0.11	-1.15	63,63,63,63	0
92	OHX	2	1948	7/7	0.96	0.18	-1.16	80,80,80,80	0
93	MG	2	2102	1/1	0.93	0.20	-1.16	98,98,98,98	0
92	OHX	1	3484	7/7	0.99	0.11	-1.17	72,72,72,72	0
92	OHX	6	1908	7/7	0.99	0.13	-1.17	65,65,65,65	0
94	ZN	d9	101	1/1	0.99	0.10	-1.18	97,97,97,97	0
92	OHX	5	3404	7/7	0.99	0.13	-1.18	43,43,43,43	0
92	OHX	1	3536	7/7	0.96	0.18	-1.18	50,50,50,50	0
92	OHX	1	3511	7/7	0.98	0.20	-1.18	58,58,58,58	0
92	OHX	6	1912	7/7	0.99	0.10	-1.19	74,74,74,74	0
92	OHX	1	3513	7/7	0.98	0.19	-1.20	48,48,48,48	0
92	OHX	6	1938	7/7	0.98	0.12	-1.20	76,76,76,76	0
92	OHX	m0	301	7/7	0.96	0.21	-1.20	68,68,68,68	0
93	MG	8	223	1/1	0.98	0.13	-1.23	47,47,47,47	0
92	OHX	2	1913	7/7	0.99	0.14	-1.24	84,84,84,84	0
93	MG	1	3972	1/1	0.98	0.22	-1.24	44,44,44,44	0
92	OHX	1	3457	7/7	0.98	0.11	-1.24	73,73,73,73	0
92	OHX	1	3638	7/7	0.94	0.18	-1.24	145,145,145,145	0
92	OHX	s8	301	7/7	0.97	0.27	-1.25	96,96,96,96	0
92	OHX	1	3531	7/7	0.99	0.15	-1.25	89,89,89,89	0
92	OHX	5	3478	7/7	0.97	0.13	-1.25	56,56,56,56	0
92	OHX	5	3519	7/7	0.96	0.14	-1.25	78,78,78,78	0
92	OHX	M5	301	7/7	0.99	0.12	-1.25	46,46,46,46	0
93	MG	1	3901	1/1	0.90	0.19	-1.25	31,31,31,31	0
92	OHX	6	1921	7/7	0.98	0.17	-1.26	64,64,64,64	0
92	OHX	5	3430	7/7	0.99	0.14	-1.27	47,47,47,47	0
92	OHX	6	1956	7/7	0.98	0.12	-1.27	79,79,79,79	0
92	OHX	6	1920	7/7	0.96	0.15	-1.28	95,95,95,95	0
92	OHX	5	3504	7/7	0.96	0.14	-1.28	61,61,61,61	0
93	MG	M0	302	1/1	0.86	0.12	-1.30	46,46,46,46	0
92	OHX	2	1910	7/7	0.98	0.10	-1.30	89,89,89,89	0
92	OHX	2	1915	7/7	0.95	0.13	-1.31	99,99,99,99	0
92	OHX	1	3582	7/7	0.98	0.18	-1.32	53,53,53,53	0
93	MG	2	2113	1/1	0.78	0.26	-1.34	101,101,101,101	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
92	OHX	7	202	7/7	0.98	0.12	-1.34	52,52,52,52	0
93	MG	6	2099	1/1	0.94	0.21	-1.35	65,65,65,65	0
93	MG	1	3754	1/1	0.97	0.14	-1.38	45,45,45,45	0
92	OHX	1	3533	7/7	0.99	0.14	-1.39	48,48,48,48	0
94	ZN	Q3	501	1/1	0.99	0.07	-1.40	55,55,55,55	0
92	OHX	5	3411	7/7	0.99	0.15	-1.40	45,45,45,45	0
92	OHX	1	3472	7/7	0.98	0.10	-1.40	62,62,62,62	0
92	OHX	5	3738	7/7	0.95	0.15	-1.42	56,56,56,56	0
92	OHX	1	3443	7/7	0.99	0.12	-1.45	58,58,58,58	0
92	OHX	6	1939	7/7	0.95	0.14	-1.46	102,102,102,102	0
92	OHX	1	3463	7/7	0.98	0.10	-1.46	80,80,80,80	0
93	MG	2	2093	1/1	0.88	0.14	-1.47	81,81,81,81	0
92	OHX	4	206	7/7	0.98	0.13	-1.49	49,49,49,49	0
92	OHX	6	2000	7/7	0.99	0.19	-1.50	69,69,69,69	0
92	OHX	1	3460	7/7	0.99	0.11	-1.50	44,44,44,44	0
92	OHX	1	3606	7/7	0.98	0.12	-1.51	63,63,63,63	0
92	OHX	2	1924	7/7	0.99	0.08	-1.55	103,103,103,103	0
93	MG	6	2179	1/1	0.99	0.12	-1.55	93,93,93,93	0
94	ZN	d6	101	1/1	0.99	0.07	-1.56	67,67,67,67	0
93	MG	C8	202	1/1	0.91	0.06	-1.56	94,94,94,94	0
92	OHX	2	2039	7/7	0.93	0.21	-1.59	133,133,133,133	0
94	ZN	Q0	500	1/1	0.98	0.10	-1.59	47,47,47,47	0
93	MG	5	4153	1/1	1.00	0.13	-1.60	37,37,37,37	0
94	ZN	D9	101	1/1	0.98	0.07	-1.61	90,90,90,90	0
92	OHX	1	3512	7/7	0.99	0.13	-1.61	45,45,45,45	0
92	OHX	6	1972	7/7	0.99	0.12	-1.61	67,67,67,67	0
93	MG	5	3769	1/1	0.92	0.16	-1.61	43,43,43,43	0
92	OHX	2	1966	7/7	0.98	0.17	-1.62	65,65,65,65	0
92	OHX	1	3697	7/7	0.98	0.14	-1.62	46,46,46,46	0
92	OHX	5	3541	7/7	0.97	0.10	-1.63	93,93,93,93	0
93	MG	1	3776	1/1	0.98	0.12	-1.64	44,44,44,44	0
92	OHX	m5	302	7/7	0.99	0.17	-1.65	66,66,66,66	0
92	OHX	1	3529	7/7	0.98	0.12	-1.65	79,79,79,79	0
92	OHX	1	3498	7/7	0.98	0.15	-1.67	74,74,74,74	0
92	OHX	6	1926	7/7	0.99	0.17	-1.68	67,67,67,67	0
92	OHX	6	1975	7/7	0.96	0.15	-1.68	93,93,93,93	0
92	OHX	1	3441	7/7	0.98	0.17	-1.69	44,44,44,44	0
92	OHX	5	3450	7/7	0.99	0.11	-1.69	58,58,58,58	0
92	OHX	1	3482	7/7	0.97	0.15	-1.69	66,66,66,66	0
92	OHX	6	1927	7/7	0.95	0.11	-1.70	109,109,109,109	0
92	OHX	2	1917	7/7	0.98	0.15	-1.71	83,83,83,83	0
93	MG	5	3842	1/1	0.98	0.17	-1.71	35,35,35,35	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
92	OHX	6	1907	7/7	0.98	0.14	-1.71	77,77,77,77	0
92	OHX	5	3443	7/7	0.99	0.12	-1.71	59,59,59,59	0
92	OHX	l3	401	7/7	0.99	0.11	-1.73	52,52,52,52	0
92	OHX	2	1973	7/7	0.96	0.13	-1.74	112,112,112,112	0
92	OHX	1	3493	7/7	0.97	0.21	-1.74	61,61,61,61	0
93	MG	1	3747	1/1	0.94	0.13	-1.74	48,48,48,48	0
92	OHX	6	2056	7/7	0.94	0.16	-1.75	99,99,99,99	0
92	OHX	5	3516	7/7	0.98	0.17	-1.75	47,47,47,47	0
92	OHX	5	3525	7/7	0.97	0.12	-1.76	75,75,75,75	0
92	OHX	5	3600	7/7	0.97	0.15	-1.77	83,83,83,83	0
93	MG	O7	106	1/1	0.97	0.12	-1.77	46,46,46,46	0
92	OHX	2	1923	7/7	0.98	0.11	-1.79	84,84,84,84	0
92	OHX	o3	201	7/7	0.98	0.16	-1.80	54,54,54,54	0
92	OHX	1	3426	7/7	0.99	0.10	-1.82	50,50,50,50	0
94	ZN	O7	101	1/1	0.99	0.07	-1.83	39,39,39,39	0
92	OHX	1	3428	7/7	0.98	0.09	-1.83	52,52,52,52	0
93	MG	6	2159	1/1	0.80	0.15	-1.83	88,88,88,88	0
93	MG	5	4012	1/1	0.74	0.12	-1.86	44,44,44,44	0
93	MG	5	3985	1/1	0.87	0.14	-1.86	41,41,41,41	0
92	OHX	7	201	7/7	0.99	0.07	-1.86	49,49,49,49	0
92	OHX	6	1951	7/7	0.96	0.14	-1.86	119,119,119,119	0
93	MG	n8	201	1/1	0.90	0.12	-1.87	43,43,43,43	0
92	OHX	L6	201	7/7	0.99	0.15	-1.87	44,44,44,44	0
92	OHX	6	1931	7/7	0.94	0.18	-1.88	86,86,86,86	0
92	OHX	2	1949	7/7	0.98	0.10	-1.88	94,94,94,94	0
92	OHX	5	3512	7/7	0.98	0.17	-1.89	42,42,42,42	0
93	MG	L7	301	1/1	0.98	0.16	-1.90	37,37,37,37	0
92	OHX	1	3453	7/7	0.98	0.12	-1.90	46,46,46,46	0
92	OHX	5	3464	7/7	0.99	0.09	-1.91	50,50,50,50	0
92	OHX	6	1902	7/7	0.97	0.14	-1.92	91,91,91,91	0
93	MG	5	3826	1/1	0.97	0.16	-1.95	45,45,45,45	0
92	OHX	5	3436	7/7	0.99	0.10	-1.96	64,64,64,64	0
92	OHX	1	3486	7/7	0.98	0.12	-1.97	69,69,69,69	0
94	ZN	q2	501	1/1	0.95	0.09	-2.00	47,47,47,47	0
93	MG	2	2120	1/1	0.96	0.05	-2.02	95,95,95,95	0
92	OHX	5	3458	7/7	0.98	0.13	-2.03	57,57,57,57	0
92	OHX	6	1955	7/7	0.99	0.08	-2.04	108,108,108,108	0
92	OHX	1	3577	7/7	0.98	0.13	-2.04	60,60,60,60	0
92	OHX	1	3540	7/7	0.99	0.16	-2.06	52,52,52,52	0
94	ZN	o7	501	1/1	0.99	0.09	-2.06	41,41,41,41	0
92	OHX	s1	301	7/7	0.98	0.14	-2.07	77,77,77,77	0
92	OHX	1	3494	7/7	0.99	0.14	-2.07	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
92	OHX	6	1901	7/7	0.99	0.15	-2.08	59,59,59,59	0
92	OHX	m5	301	7/7	0.99	0.13	-2.09	48,48,48,48	0
92	OHX	2	1907	7/7	0.98	0.12	-2.09	93,93,93,93	0
92	OHX	7	205	7/7	0.98	0.12	-2.09	55,55,55,55	0
92	OHX	2	1911	7/7	0.98	0.10	-2.10	98,98,98,98	0
94	ZN	q0	500	1/1	0.99	0.13	-2.10	37,37,37,37	0
92	OHX	5	3417	7/7	0.99	0.11	-2.11	43,43,43,43	0
92	OHX	1	3418	7/7	0.99	0.18	-2.11	52,52,52,52	0
93	MG	5	4044	1/1	0.98	0.15	-2.16	35,35,35,35	0
92	OHX	2	1903	7/7	0.96	0.14	-2.17	95,95,95,95	0
92	OHX	6	1945	7/7	0.98	0.15	-2.18	72,72,72,72	0
92	OHX	1	3731	7/7	0.95	0.16	-2.20	94,94,94,94	0
92	OHX	2	1975	7/7	0.95	0.13	-2.21	77,77,77,77	0
92	OHX	6	1922	7/7	0.99	0.14	-2.22	60,60,60,60	0
92	OHX	5	3472	7/7	0.98	0.10	-2.23	66,66,66,66	0
92	OHX	5	3515	7/7	0.98	0.11	-2.23	85,85,85,85	0
92	OHX	5	3500	7/7	0.98	0.11	-2.24	72,72,72,72	0
92	OHX	Q2	502	7/7	1.00	0.05	-2.24	41,41,41,41	0
92	OHX	2	1902	7/7	0.99	0.13	-2.25	81,81,81,81	0
92	OHX	2	1914	7/7	0.99	0.09	-2.26	78,78,78,78	0
92	OHX	6	1923	7/7	0.97	0.12	-2.27	81,81,81,81	0
92	OHX	5	3482	7/7	0.99	0.08	-2.30	49,49,49,49	0
92	OHX	1	3471	7/7	0.99	0.12	-2.30	48,48,48,48	0
92	OHX	6	1946	7/7	0.98	0.14	-2.31	79,79,79,79	0
93	MG	5	3943	1/1	0.98	0.16	-2.31	41,41,41,41	0
93	MG	6	2177	1/1	0.93	0.10	-2.32	94,94,94,94	0
92	OHX	6	1950	7/7	0.99	0.14	-2.33	90,90,90,90	0
92	OHX	6	2052	7/7	0.97	0.13	-2.34	65,65,65,65	0
92	OHX	5	3490	7/7	0.99	0.11	-2.35	53,53,53,53	0
92	OHX	5	3529	7/7	0.99	0.14	-2.36	42,42,42,42	0
94	ZN	E1	501	1/1	0.93	0.06	-2.36	109,109,109,109	0
92	OHX	1	3422	7/7	0.99	0.13	-2.37	57,57,57,57	0
93	MG	5	3812	1/1	0.95	0.14	-2.38	89,89,89,89	0
92	OHX	5	3433	7/7	0.99	0.17	-2.39	45,45,45,45	0
92	OHX	5	3418	7/7	0.99	0.12	-2.40	41,41,41,41	0
92	OHX	1	3516	7/7	0.99	0.14	-2.41	39,39,39,39	0
92	OHX	m6	201	7/7	0.98	0.10	-2.41	48,48,48,48	0
94	ZN	Q2	501	1/1	0.99	0.03	-2.44	51,51,51,51	0
92	OHX	6	1918	7/7	0.99	0.08	-2.45	49,49,49,49	0
92	OHX	6	1911	7/7	0.99	0.08	-2.49	57,57,57,57	0
92	OHX	2	1951	7/7	0.97	0.13	-2.51	82,82,82,82	0
92	OHX	5	3452	7/7	0.98	0.11	-2.52	63,63,63,63	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
92	OHX	5	3460	7/7	0.99	0.08	-2.53	46,46,46,46	0
92	OHX	M6	201	7/7	0.99	0.12	-2.55	54,54,54,54	0
92	OHX	5	3457	7/7	0.98	0.09	-2.56	58,58,58,58	0
92	OHX	5	3465	7/7	0.99	0.06	-2.57	57,57,57,57	0
92	OHX	5	3575	7/7	0.98	0.16	-2.58	55,55,55,55	0
92	OHX	5	3451	7/7	0.99	0.10	-2.59	65,65,65,65	0
92	OHX	5	3502	7/7	0.96	0.13	-2.61	59,59,59,59	0
92	OHX	1	3500	7/7	0.99	0.10	-2.62	40,40,40,40	0
93	MG	5	4093	1/1	1.00	0.12	-2.62	32,32,32,32	0
92	OHX	1	3573	7/7	0.98	0.19	-2.66	60,60,60,60	0
92	OHX	1	3514	7/7	0.99	0.14	-2.66	52,52,52,52	0
92	OHX	5	3503	7/7	0.98	0.16	-2.69	44,44,44,44	0
92	OHX	1	3411	7/7	0.99	0.14	-2.69	48,48,48,48	0
92	OHX	SR	401	7/7	0.92	0.21	-2.70	121,121,121,121	0
92	OHX	6	1906	7/7	0.99	0.13	-2.71	60,60,60,60	0
92	OHX	1	3447	7/7	0.97	0.15	-2.71	53,53,53,53	0
92	OHX	5	3748	7/7	0.97	0.14	-2.72	92,92,92,92	0
92	OHX	1	3416	7/7	0.99	0.11	-2.72	53,53,53,53	0
92	OHX	5	3474	7/7	0.98	0.15	-2.74	46,46,46,46	0
92	OHX	1	3404	7/7	1.00	0.14	-2.76	37,37,37,37	0
92	OHX	6	1954	7/7	0.98	0.10	-2.77	116,116,116,116	0
92	OHX	5	3511	7/7	0.99	0.07	-2.80	35,35,35,35	0
93	MG	c8	203	1/1	0.98	0.07	-2.82	86,86,86,86	0
92	OHX	1	3434	7/7	0.98	0.14	-2.84	52,52,52,52	0
92	OHX	5	3475	7/7	0.97	0.14	-2.88	47,47,47,47	0
92	OHX	2	1969	7/7	0.98	0.08	-2.92	87,87,87,87	0
92	OHX	5	3494	7/7	0.99	0.12	-2.95	51,51,51,51	0
92	OHX	2	1916	7/7	0.98	0.10	-2.95	84,84,84,84	0
92	OHX	6	1943	7/7	0.98	0.11	-2.95	102,102,102,102	0
92	OHX	5	3412	7/7	0.99	0.10	-2.96	44,44,44,44	0
92	OHX	6	1904	7/7	0.99	0.09	-2.99	68,68,68,68	0
92	OHX	1	3449	7/7	0.99	0.06	-3.01	54,54,54,54	0
93	MG	M5	303	1/1	0.94	0.13	-3.01	37,37,37,37	0
93	MG	5	3955	1/1	0.96	0.16	-3.01	41,41,41,41	0
93	MG	1	3927	1/1	0.95	0.12	-3.03	38,38,38,38	0
92	OHX	5	3462	7/7	0.98	0.10	-3.05	44,44,44,44	0
92	OHX	1	3448	7/7	0.99	0.13	-3.07	54,54,54,54	0
92	OHX	2	2008	7/7	0.98	0.12	-3.09	106,106,106,106	0
92	OHX	6	1928	7/7	0.97	0.15	-3.10	105,105,105,105	0
92	OHX	6	1947	7/7	0.98	0.15	-3.11	71,71,71,71	0
92	OHX	5	3561	7/7	0.99	0.12	-3.14	41,41,41,41	0
92	OHX	5	3406	7/7	0.99	0.18	-3.15	36,36,36,36	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
92	OHX	5	3415	7/7	1.00	0.10	-3.16	42,42,42,42	0
92	OHX	1	3452	7/7	0.98	0.09	-3.17	65,65,65,65	0
92	OHX	N9	101	7/7	0.99	0.11	-3.18	42,42,42,42	0
92	OHX	5	3422	7/7	0.99	0.09	-3.19	44,44,44,44	0
92	OHX	1	3432	7/7	0.98	0.18	-3.19	46,46,46,46	0
92	OHX	7	203	7/7	0.98	0.12	-3.22	48,48,48,48	0
92	OHX	6	1913	7/7	0.99	0.07	-3.22	80,80,80,80	0
92	OHX	1	3490	7/7	0.98	0.16	-3.24	51,51,51,51	0
92	OHX	1	3455	7/7	0.98	0.10	-3.27	65,65,65,65	0
92	OHX	2	1909	7/7	0.95	0.13	-3.28	97,97,97,97	0
92	OHX	5	3461	7/7	0.98	0.09	-3.32	48,48,48,48	0
94	ZN	e1	501	1/1	0.80	0.06	-3.35	130,130,130,130	0
92	OHX	1	3473	7/7	0.99	0.09	-3.36	62,62,62,62	0
92	OHX	5	3702	7/7	0.98	0.15	-3.39	50,50,50,50	0
92	OHX	2	1981	7/7	0.98	0.16	-3.40	75,75,75,75	0
92	OHX	5	3442	7/7	0.99	0.07	-3.40	57,57,57,57	0
92	OHX	1	3466	7/7	0.98	0.12	-3.41	70,70,70,70	0
92	OHX	4	201	7/7	1.00	0.13	-3.41	41,41,41,41	0
92	OHX	2	1905	7/7	0.99	0.14	-3.48	76,76,76,76	0
92	OHX	1	3479	7/7	0.99	0.15	-3.48	51,51,51,51	0
92	OHX	2	1964	7/7	0.98	0.14	-3.49	97,97,97,97	0
92	OHX	5	3505	7/7	0.99	0.09	-3.49	52,52,52,52	0
92	OHX	7	204	7/7	0.99	0.14	-3.52	45,45,45,45	0
92	OHX	1	3488	7/7	0.98	0.11	-3.53	68,68,68,68	0
92	OHX	1	3470	7/7	0.99	0.16	-3.55	82,82,82,82	0
92	OHX	1	3435	7/7	0.99	0.12	-3.57	58,58,58,58	0
92	OHX	6	1924	7/7	0.98	0.09	-3.58	63,63,63,63	0
92	OHX	1	3515	7/7	0.98	0.16	-3.59	56,56,56,56	0
92	OHX	6	1910	7/7	0.99	0.12	-3.60	62,62,62,62	0
92	OHX	5	3484	7/7	0.99	0.13	-3.60	43,43,43,43	0
92	OHX	1	3481	7/7	0.98	0.10	-3.61	48,48,48,48	0
92	OHX	1	3406	7/7	0.99	0.13	-3.61	43,43,43,43	0
92	OHX	1	3419	7/7	0.99	0.16	-3.64	52,52,52,52	0
92	OHX	n9	101	7/7	0.99	0.07	-3.64	41,41,41,41	0
92	OHX	1	3412	7/7	0.99	0.09	-3.66	43,43,43,43	0
92	OHX	5	3480	7/7	0.98	0.09	-3.66	52,52,52,52	0
92	OHX	1	3478	7/7	0.99	0.14	-3.67	51,51,51,51	0
92	OHX	1	3430	7/7	0.99	0.10	-3.67	55,55,55,55	0
92	OHX	5	3454	7/7	0.99	0.07	-3.68	91,91,91,91	0
92	OHX	1	3485	7/7	0.98	0.10	-3.71	78,78,78,78	0
92	OHX	1	3501	7/7	0.98	0.14	-3.71	62,62,62,62	0
92	OHX	5	3405	7/7	0.99	0.14	-3.72	36,36,36,36	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
92	OHX	2	1904	7/7	0.98	0.08	-3.73	83,83,83,83	0
92	OHX	5	3499	7/7	0.98	0.15	-3.75	50,50,50,50	0
92	OHX	1	3461	7/7	0.98	0.10	-3.75	58,58,58,58	0
92	OHX	6	1932	7/7	0.97	0.14	-3.76	59,59,59,59	0
92	OHX	1	3425	7/7	0.99	0.12	-3.76	55,55,55,55	0
92	OHX	5	3446	7/7	0.99	0.12	-3.81	45,45,45,45	0
92	OHX	2	1940	7/7	0.98	0.08	-3.81	94,94,94,94	0
92	OHX	5	3407	7/7	1.00	0.13	-3.83	38,38,38,38	0
92	OHX	2	1908	7/7	0.97	0.10	-3.84	95,95,95,95	0
92	OHX	2	1918	7/7	0.96	0.14	-3.85	83,83,83,83	0
94	ZN	D6	500	1/1	0.98	0.03	-3.86	87,87,87,87	0
92	OHX	5	3610	7/7	0.99	0.14	-3.89	57,57,57,57	0
92	OHX	6	1914	7/7	0.97	0.12	-3.91	61,61,61,61	0
92	OHX	2	1935	7/7	0.97	0.12	-3.98	82,82,82,82	0
92	OHX	5	3439	7/7	0.99	0.08	-4.07	46,46,46,46	0
92	OHX	1	3444	7/7	0.99	0.07	-4.08	53,53,53,53	0
92	OHX	2	1936	7/7	0.97	0.12	-4.14	102,102,102,102	0
92	OHX	1	3408	7/7	1.00	0.10	-4.16	41,41,41,41	0
92	OHX	1	3439	7/7	0.99	0.11	-4.16	56,56,56,56	0
92	OHX	8	202	7/7	0.99	0.11	-4.17	40,40,40,40	0
92	OHX	5	3489	7/7	0.99	0.11	-4.20	41,41,41,41	0
92	OHX	2	1912	7/7	0.99	0.07	-4.21	93,93,93,93	0
92	OHX	5	3426	7/7	1.00	0.06	-4.21	52,52,52,52	0
92	OHX	1	3544	7/7	0.99	0.14	-4.23	72,72,72,72	0
92	OHX	6	1929	7/7	0.98	0.11	-4.27	63,63,63,63	0
93	MG	1	4060	1/1	0.97	0.09	-4.28	46,46,46,46	0
92	OHX	5	3438	7/7	0.99	0.09	-4.40	46,46,46,46	0
92	OHX	1	3417	7/7	1.00	0.07	-4.40	38,38,38,38	0
92	OHX	1	3483	7/7	0.98	0.12	-4.44	57,57,57,57	0
92	OHX	1	3415	7/7	0.99	0.07	-4.47	47,47,47,47	0
92	OHX	1	3424	7/7	0.99	0.10	-4.48	61,61,61,61	0
92	OHX	1	3465	7/7	0.96	0.12	-4.49	66,66,66,66	0
92	OHX	5	3424	7/7	0.99	0.10	-4.59	54,54,54,54	0
92	OHX	1	3630	7/7	0.99	0.12	-4.61	50,50,50,50	0
92	OHX	5	3427	7/7	0.99	0.14	-4.65	51,51,51,51	0
92	OHX	6	1903	7/7	0.99	0.12	-4.69	61,61,61,61	0
92	OHX	5	3440	7/7	0.99	0.09	-4.71	43,43,43,43	0
92	OHX	1	3446	7/7	0.98	0.09	-4.72	47,47,47,47	0
92	OHX	1	3429	7/7	1.00	0.07	-4.72	47,47,47,47	0
92	OHX	1	3469	7/7	0.98	0.11	-4.72	56,56,56,56	0
92	OHX	5	3445	7/7	0.99	0.08	-4.79	51,51,51,51	0
92	OHX	1	3431	7/7	0.99	0.08	-4.81	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
92	OHX	5	3463	7/7	0.97	0.13	-4.81	48,48,48,48	0
92	OHX	2	1922	7/7	0.99	0.06	-4.88	83,83,83,83	0
92	OHX	5	3615	7/7	0.99	0.11	-4.93	47,47,47,47	0
92	OHX	q2	502	7/7	0.99	0.08	-4.98	45,45,45,45	0
93	MG	1	3802	1/1	0.99	0.13	-5.02	37,37,37,37	0
92	OHX	1	3462	7/7	0.99	0.08	-5.03	43,43,43,43	0
92	OHX	5	3420	7/7	0.99	0.10	-5.05	50,50,50,50	0
92	OHX	1	3438	7/7	0.99	0.06	-5.05	47,47,47,47	0
93	MG	6	2158	1/1	0.96	0.05	-5.08	54,54,54,54	0
92	OHX	5	3487	7/7	0.98	0.12	-5.09	53,53,53,53	0
92	OHX	5	3453	7/7	0.99	0.09	-5.10	55,55,55,55	0
92	OHX	6	1933	7/7	0.98	0.11	-5.15	98,98,98,98	0
92	OHX	2	1919	7/7	0.99	0.07	-5.18	73,73,73,73	0
92	OHX	5	3493	7/7	0.99	0.10	-5.21	48,48,48,48	0
92	OHX	4	203	7/7	0.98	0.10	-5.30	49,49,49,49	0
92	OHX	5	3577	7/7	0.99	0.13	-5.31	50,50,50,50	0
92	OHX	1	3421	7/7	0.99	0.10	-5.33	59,59,59,59	0
92	OHX	5	3432	7/7	0.99	0.10	-5.56	46,46,46,46	0
92	OHX	1	3499	7/7	0.98	0.12	-5.61	50,50,50,50	0
92	OHX	5	3523	7/7	0.99	0.12	-5.64	61,61,61,61	0
93	MG	1	3764	1/1	0.98	0.07	-5.65	50,50,50,50	0
92	OHX	5	3481	7/7	0.98	0.10	-5.75	49,49,49,49	0
92	OHX	5	3485	7/7	0.99	0.11	-5.79	48,48,48,48	0
92	OHX	1	3451	7/7	0.98	0.10	-5.80	62,62,62,62	0
92	OHX	1	3527	7/7	0.98	0.14	-5.82	69,69,69,69	0
92	OHX	5	3421	7/7	0.98	0.14	-5.85	44,44,44,44	0
92	OHX	5	3467	7/7	0.99	0.10	-5.88	45,45,45,45	0
92	OHX	1	3475	7/7	0.97	0.11	-6.07	51,51,51,51	0
92	OHX	5	3466	7/7	0.99	0.08	-6.09	56,56,56,56	0
92	OHX	1	3467	7/7	0.99	0.11	-6.41	43,43,43,43	0
92	OHX	5	3434	7/7	1.00	0.06	-6.51	39,39,39,39	0
92	OHX	6	1909	7/7	0.99	0.09	-6.55	91,91,91,91	0
92	OHX	5	3522	7/7	0.99	0.15	-6.67	47,47,47,47	0
92	OHX	1	3420	7/7	1.00	0.06	-6.85	38,38,38,38	0
92	OHX	6	1917	7/7	0.99	0.07	-6.87	55,55,55,55	0
92	OHX	1	3487	7/7	0.99	0.09	-6.88	57,57,57,57	0
92	OHX	5	3429	7/7	1.00	0.06	-6.93	37,37,37,37	0
92	OHX	5	3419	7/7	1.00	0.12	-7.07	40,40,40,40	0
92	OHX	1	3414	7/7	0.99	0.09	-7.13	45,45,45,45	0
92	OHX	6	1915	7/7	0.99	0.09	-7.17	62,62,62,62	0
93	MG	1	3928	1/1	0.94	0.15	-7.34	56,56,56,56	0
92	OHX	5	3488	7/7	0.99	0.10	-7.40	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
92	OHX	5	3441	7/7	0.99	0.06	-7.80	45,45,45,45	0
92	OHX	1	3413	7/7	0.99	0.09	-7.89	51,51,51,51	0
92	OHX	5	3416	7/7	0.99	0.09	-7.98	42,42,42,42	0
92	OHX	5	3492	7/7	1.00	0.06	-8.11	46,46,46,46	0
92	OHX	5	3428	7/7	0.99	0.05	-8.17	41,41,41,41	0
92	OHX	5	3410	7/7	0.99	0.13	-8.61	43,43,43,43	0
92	OHX	5	3473	7/7	0.98	0.09	-9.49	63,63,63,63	0
92	OHX	1	3474	7/7	0.99	0.09	-9.71	55,55,55,55	0
92	OHX	1	3423	7/7	0.99	0.10	-10.68	55,55,55,55	0
92	OHX	5	3431	7/7	1.00	0.08	-10.82	53,53,53,53	0
93	MG	5	3751	1/1	0.88	0.70	-	60,60,60,60	0
92	OHX	1	3584	7/7	0.98	0.36	-	78,78,78,78	0
93	MG	6	2157	1/1	0.96	0.29	-	57,57,57,57	0
93	MG	5	4136	1/1	0.93	0.24	-	36,36,36,36	0
93	MG	3	214	1/1	0.96	0.42	-	59,59,59,59	0
93	MG	2	2106	1/1	0.63	0.24	-	96,96,96,96	0
92	OHX	2	1997	7/7	0.97	0.22	-	96,96,96,96	0
92	OHX	2	2013	7/7	0.95	0.22	-	104,104,104,104	0
93	MG	N3	202	1/1	0.96	0.16	-	51,51,51,51	0
92	OHX	5	3614	7/7	0.96	0.17	-	71,71,71,71	0
92	OHX	5	3708	7/7	0.97	0.41	-	67,67,67,67	0
92	OHX	5	3728	7/7	0.97	0.30	-	71,71,71,71	0
92	OHX	1	3595	7/7	0.94	0.39	-	68,68,68,68	0
92	OHX	5	3677	7/7	0.98	0.25	-	66,66,66,66	0
93	MG	1	3926	1/1	0.94	0.35	-	39,39,39,39	0
93	MG	1	3973	1/1	0.92	0.34	-	43,43,43,43	0
93	MG	5	3880	1/1	0.93	0.86	-	37,37,37,37	0
92	OHX	6	2020	7/7	0.97	0.28	-	94,94,94,94	0
93	MG	1	3963	1/1	0.91	0.63	-	54,54,54,54	0
92	OHX	6	1982	7/7	0.97	0.18	-	96,96,96,96	0
93	MG	5	4137	1/1	0.88	0.46	-	38,38,38,38	0
93	MG	1	4122	1/1	0.90	0.31	-	39,39,39,39	0
93	MG	6	2138	1/1	0.88	0.12	-	82,82,82,82	0
92	OHX	1	3553	7/7	0.95	0.26	-	58,58,58,58	0
93	MG	1	3871	1/1	0.89	0.46	-	52,52,52,52	0
92	OHX	5	3572	7/7	0.98	0.22	-	61,61,61,61	0
93	MG	5	4121	1/1	0.95	0.14	-	41,41,41,41	0
93	MG	2	2097	1/1	0.94	0.17	-	118,118,118,118	0
93	MG	1	3818	1/1	0.75	0.42	-	51,51,51,51	0
93	MG	5	3907	1/1	0.95	0.82	-	38,38,38,38	0
93	MG	1	3771	1/1	0.94	0.49	-	41,41,41,41	0
93	MG	1	4058	1/1	0.94	0.79	-	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
92	OHX	4	202	7/7	0.99	0.13	-	47,47,47,47	0
93	MG	5	3841	1/1	0.95	0.24	-	35,35,35,35	0
92	OHX	1	3632	7/7	0.98	0.28	-	88,88,88,88	0
93	MG	5	4154	1/1	0.83	0.26	-	46,46,46,46	0
92	OHX	1	3567	7/7	0.99	0.15	-	71,71,71,71	0
92	OHX	5	3448	7/7	0.99	0.08	-	41,41,41,41	0
92	OHX	1	3541	7/7	0.96	0.22	-	66,66,66,66	0
92	OHX	6	2001	7/7	0.96	0.26	-	93,93,93,93	0
93	MG	5	3919	1/1	0.86	0.59	-	32,32,32,32	0
93	MG	O7	103	1/1	0.94	0.20	-	40,40,40,40	0
93	MG	5	3843	1/1	0.97	0.53	-	43,43,43,43	0
93	MG	1	3873	1/1	0.94	0.48	-	41,41,41,41	0
93	MG	5	3795	1/1	0.94	0.27	-	62,62,62,62	0
93	MG	5	4144	1/1	0.94	0.15	-	38,38,38,38	0
93	MG	1	3756	1/1	0.95	0.42	-	54,54,54,54	0
93	MG	1	3953	1/1	0.64	0.37	-	48,48,48,48	0
93	MG	1	4050	1/1	0.92	0.37	-	47,47,47,47	0
93	MG	1	3895	1/1	0.96	0.64	-	42,42,42,42	0
92	OHX	2	1958	7/7	0.96	0.19	-	109,109,109,109	0
92	OHX	5	3731	7/7	0.95	0.29	-	97,97,97,97	0
93	MG	5	3977	1/1	0.97	0.32	-	35,35,35,35	0
92	OHX	1	3666	7/7	0.97	0.25	-	87,87,87,87	0
93	MG	6	2086	1/1	0.41	0.26	-	75,75,75,75	0
93	MG	5	4065	1/1	0.97	0.16	-	38,38,38,38	0
93	MG	M3	1000	1/1	0.87	0.35	-	64,64,64,64	0
92	OHX	6	2022	7/7	0.97	0.39	-	91,91,91,91	0
93	MG	2	2112	1/1	0.80	0.58	-	83,83,83,83	0
93	MG	5	4046	1/1	0.95	0.52	-	47,47,47,47	0
93	MG	1	3744	1/1	0.69	0.41	-	52,52,52,52	0
93	MG	1	3805	1/1	0.88	0.14	-	58,58,58,58	0
93	MG	5	4109	1/1	0.81	0.70	-	42,42,42,42	0
92	OHX	5	3736	7/7	0.97	0.37	-	81,81,81,81	0
93	MG	5	3891	1/1	0.91	0.51	-	39,39,39,39	0
93	MG	5	4149	1/1	0.91	0.22	-	37,37,37,37	0
92	OHX	2	1989	7/7	0.96	0.17	-	93,93,93,93	0
93	MG	4	226	1/1	0.89	0.54	-	40,40,40,40	0
92	OHX	1	3708	7/7	0.95	0.24	-	114,114,114,114	0
93	MG	2	2066	1/1	0.93	0.75	-	72,72,72,72	0
93	MG	2	2094	1/1	0.29	0.71	-	81,81,81,81	0
93	MG	1	4094	1/1	0.70	0.64	-	55,55,55,55	0
93	MG	1	3862	1/1	0.96	0.72	-	38,38,38,38	0
92	OHX	1	3557	7/7	0.99	0.16	-	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
93	MG	5	4095	1/1	0.92	0.37	-	35,35,35,35	0
96	LEU	1	3402	8/9	0.95	0.29	-	39,40,40,40	0
93	MG	1	3860	1/1	0.86	0.65	-	41,41,41,41	0
93	MG	1	4084	1/1	0.92	0.25	-	56,56,56,56	0
93	MG	1	3934	1/1	0.93	0.20	-	51,51,51,51	0
93	MG	5	4058	1/1	0.87	0.21	-	40,40,40,40	0
93	MG	1	4112	1/1	0.94	0.32	-	45,45,45,45	0
93	MG	5	3848	1/1	0.84	0.43	-	50,50,50,50	0
93	MG	5	4009	1/1	0.81	0.60	-	48,48,48,48	0
92	OHX	6	2010	7/7	0.95	0.24	-	91,91,91,91	0
93	MG	5	4047	1/1	0.88	0.35	-	41,41,41,41	0
93	MG	1	3869	1/1	0.78	0.41	-	41,41,41,41	0
92	OHX	1	3647	7/7	0.96	0.27	-	93,93,93,93	0
93	MG	6	2167	1/1	0.60	0.95	-	55,55,55,55	0
92	OHX	1	3459	7/7	0.99	0.08	-	72,72,72,72	0
93	MG	5	4117	1/1	0.68	0.28	-	63,63,63,63	0
93	MG	4	230	1/1	0.86	0.34	-	46,46,46,46	0
93	MG	5	4171	1/1	0.72	0.51	-	41,41,41,41	0
93	MG	5	3882	1/1	0.93	0.39	-	37,37,37,37	0
92	OHX	5	3437	7/7	0.99	0.11	-	41,41,41,41	0
93	MG	n8	202	1/1	0.93	0.18	-	34,34,34,34	0
92	OHX	1	3476	7/7	0.98	0.16	-	62,62,62,62	0
93	MG	1	3976	1/1	0.98	0.14	-	53,53,53,53	0
93	MG	1	3819	1/1	0.81	0.31	-	62,62,62,62	0
92	OHX	1	3715	7/7	0.98	0.25	-	82,82,82,82	0
93	MG	5	4131	1/1	0.91	0.27	-	40,40,40,40	0
93	MG	1	4096	1/1	0.97	0.11	-	52,52,52,52	0
93	MG	5	4084	1/1	0.88	0.55	-	42,42,42,42	0
93	MG	1	3843	1/1	0.94	0.57	-	38,38,38,38	0
93	MG	4	225	1/1	0.83	0.47	-	47,47,47,47	0
92	OHX	5	3639	7/7	0.96	0.27	-	56,56,56,56	0
93	MG	5	3999	1/1	0.94	0.23	-	31,31,31,31	0
92	OHX	1	3546	7/7	0.98	0.19	-	68,68,68,68	0
93	MG	6	2148	1/1	0.89	0.23	-	58,58,58,58	0
92	OHX	1	3442	7/7	0.97	0.12	-	55,55,55,55	0
93	MG	1	3750	1/1	0.87	0.52	-	55,55,55,55	0
93	MG	1	4101	1/1	0.87	0.19	-	37,37,37,37	0
93	MG	1	3829	1/1	0.97	0.59	-	43,43,43,43	0
93	MG	1	4049	1/1	0.90	0.16	-	44,44,44,44	0
93	MG	5	3884	1/1	0.96	0.25	-	30,30,30,30	0
92	OHX	5	3479	7/7	0.99	0.10	-	58,58,58,58	0
93	MG	5	3954	1/1	0.97	0.33	-	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
93	MG	5	3762	1/1	0.92	0.43	-	33,33,33,33	0
92	OHX	2	2037	7/7	0.96	0.26	-	98,98,98,98	0
93	MG	5	4160	1/1	0.98	0.34	-	33,33,33,33	0
92	OHX	5	3449	7/7	0.98	0.14	-	48,48,48,48	0
93	MG	6	2101	1/1	0.89	0.40	-	53,53,53,53	0
92	OHX	5	3526	7/7	0.98	0.15	-	58,58,58,58	0
93	MG	2	2053	1/1	0.94	0.81	-	70,70,70,70	0
93	MG	5	4102	1/1	0.97	0.20	-	40,40,40,40	0
93	MG	n0	201	1/1	0.95	0.31	-	37,37,37,37	0
93	MG	1	4035	1/1	0.95	0.27	-	47,47,47,47	0
92	OHX	1	3725	7/7	0.96	0.30	-	75,75,75,75	0
93	MG	1	3804	1/1	0.86	0.38	-	46,46,46,46	0
93	MG	5	4018	1/1	0.97	0.19	-	31,31,31,31	0
93	MG	6	2165	1/1	0.90	0.25	-	69,69,69,69	0
93	MG	7	225	1/1	0.64	1.51	-	44,44,44,44	0
93	MG	5	4130	1/1	0.87	0.29	-	33,33,33,33	0
92	OHX	5	3690	7/7	0.94	0.30	-	79,79,79,79	0
93	MG	5	3778	1/1	0.98	0.47	-	40,40,40,40	0
92	OHX	5	3744	7/7	0.98	0.30	-	72,72,72,72	0
93	MG	5	4163	1/1	0.94	0.20	-	44,44,44,44	0
92	OHX	2	2051	7/7	0.93	0.35	-	105,105,105,105	0
93	MG	8	227	1/1	0.85	0.18	-	51,51,51,51	0
93	MG	1	4019	1/1	0.98	0.17	-	36,36,36,36	0
92	OHX	1	3510	7/7	0.97	0.17	-	60,60,60,60	0
93	MG	2	2085	1/1	0.93	0.64	-	76,76,76,76	0
93	MG	6	2067	1/1	0.80	0.35	-	57,57,57,57	0
92	OHX	5	3447	7/7	0.99	0.07	-	56,56,56,56	0
92	OHX	2	2027	7/7	0.95	0.29	-	93,93,93,93	0
92	OHX	5	3723	7/7	0.97	0.32	-	62,62,62,62	0
93	MG	4	235	1/1	0.96	0.35	-	42,42,42,42	0
93	MG	1	4039	1/1	0.87	0.68	-	52,52,52,52	0
92	OHX	6	1941	7/7	0.97	0.19	-	96,96,96,96	0
92	OHX	5	3674	7/7	0.98	0.34	-	56,56,56,56	0
93	MG	l3	403	1/1	0.95	0.70	-	31,31,31,31	0
93	MG	1	3903	1/1	0.87	0.46	-	40,40,40,40	0
93	MG	5	4076	1/1	0.95	0.50	-	47,47,47,47	0
93	MG	1	3781	1/1	0.96	0.44	-	52,52,52,52	0
92	OHX	1	3691	7/7	0.99	0.18	-	52,52,52,52	0
93	MG	5	3920	1/1	0.90	0.48	-	42,42,42,42	0
92	OHX	1	3578	7/7	0.98	0.21	-	51,51,51,51	0
93	MG	5	4165	1/1	0.84	0.65	-	49,49,49,49	0
93	MG	1	4106	1/1	0.82	0.29	-	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
93	MG	2	2111	1/1	0.90	0.38	-	78,78,78,78	0
93	MG	6	2070	1/1	0.87	0.30	-	94,94,94,94	0
93	MG	1	3945	1/1	0.74	0.55	-	45,45,45,45	0
93	MG	5	3815	1/1	0.76	0.31	-	40,40,40,40	0
92	OHX	5	3735	7/7	0.97	0.35	-	70,70,70,70	0
92	OHX	5	3631	7/7	0.99	0.20	-	65,65,65,65	0
92	OHX	5	3622	7/7	0.98	0.17	-	73,73,73,73	0
93	MG	4	229	1/1	0.99	0.09	-	46,46,46,46	0
93	MG	6	2085	1/1	0.85	0.53	-	58,58,58,58	0
93	MG	1	3993	1/1	0.98	0.29	-	44,44,44,44	0
93	MG	6	2117	1/1	0.91	0.48	-	55,55,55,55	0
93	MG	5	3938	1/1	0.85	0.52	-	38,38,38,38	0
92	OHX	M7	201	7/7	0.97	0.32	-	62,62,62,62	0
92	OHX	2	1944	7/7	0.98	0.15	-	83,83,83,83	0
93	MG	5	3824	1/1	0.90	0.33	-	42,42,42,42	0
93	MG	5	3866	1/1	0.97	0.52	-	39,39,39,39	0
92	OHX	2	2024	7/7	0.94	0.23	-	103,103,103,103	0
93	MG	6	2183	1/1	0.77	0.41	-	72,72,72,72	0
93	MG	q1	101	1/1	0.92	0.32	-	58,58,58,58	0
92	OHX	5	3459	7/7	0.98	0.15	-	64,64,64,64	0
92	OHX	5	3699	7/7	0.97	0.25	-	70,70,70,70	0
93	MG	5	3924	1/1	0.85	0.41	-	36,36,36,36	0
93	MG	5	3951	1/1	0.94	0.50	-	33,33,33,33	0
93	MG	1	4032	1/1	0.61	0.49	-	34,34,34,34	0
93	MG	1	4015	1/1	0.87	0.34	-	36,36,36,36	0
93	MG	5	4120	1/1	0.88	0.47	-	35,35,35,35	0
92	OHX	1	3570	7/7	0.98	0.18	-	75,75,75,75	0
93	MG	2	2103	1/1	0.90	0.54	-	74,74,74,74	0
93	MG	6	2145	1/1	0.73	0.13	-	89,89,89,89	0
93	MG	c8	202	1/1	0.57	0.38	-	84,84,84,84	0
93	MG	6	2180	1/1	0.58	0.90	-	98,98,98,98	0
93	MG	1	3858	1/1	0.87	0.46	-	35,35,35,35	0
93	MG	5	4124	1/1	0.66	0.40	-	37,37,37,37	0
93	MG	8	228	1/1	0.94	0.21	-	47,47,47,47	0
92	OHX	6	2046	7/7	0.97	0.30	-	93,93,93,93	0
93	MG	1	4067	1/1	0.96	0.77	-	38,38,38,38	0
92	OHX	2	2030	7/7	0.92	0.40	-	95,95,95,95	0
93	MG	1	3938	1/1	0.78	0.19	-	57,57,57,57	0
93	MG	1	4078	1/1	0.68	0.45	-	40,40,40,40	0
92	OHX	1	3698	7/7	0.94	0.27	-	58,58,58,58	0
92	OHX	6	1968	7/7	0.96	0.31	-	74,74,74,74	0
93	MG	5	3947	1/1	0.84	0.67	-	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
93	MG	1	4044	1/1	0.29	0.32	-	52,52,52,52	0
92	OHX	1	3547	7/7	0.98	0.22	-	65,65,65,65	0
93	MG	N8	202	1/1	0.94	0.23	-	31,31,31,31	0
93	MG	1	4080	1/1	0.78	0.34	-	54,54,54,54	0
92	OHX	1	3550	7/7	0.99	0.22	-	63,63,63,63	0
93	MG	1	3890	1/1	0.93	0.90	-	36,36,36,36	0
93	MG	5	3833	1/1	0.66	0.73	-	44,44,44,44	0
92	OHX	5	3509	7/7	0.97	0.21	-	63,63,63,63	0
92	OHX	2	1992	7/7	0.99	0.16	-	95,95,95,95	0
92	OHX	5	3620	7/7	0.93	0.26	-	73,73,73,73	0
93	MG	1	3939	1/1	0.40	0.39	-	54,54,54,54	0
92	OHX	6	1925	7/7	0.97	0.12	-	76,76,76,76	0
92	OHX	5	3678	7/7	0.97	0.28	-	60,60,60,60	0
92	OHX	1	3492	7/7	0.98	0.14	-	66,66,66,66	0
93	MG	1	4064	1/1	0.54	0.45	-	43,43,43,43	0
93	MG	1	3796	1/1	0.89	0.25	-	39,39,39,39	0
93	MG	1	3902	1/1	0.90	0.77	-	37,37,37,37	0
92	OHX	1	3437	7/7	0.99	0.09	-	52,52,52,52	0
92	OHX	6	1959	7/7	0.94	0.20	-	67,67,67,67	0
93	MG	6	2082	1/1	0.62	0.38	-	87,87,87,87	0
93	MG	5	4147	1/1	0.96	0.17	-	33,33,33,33	0
92	OHX	6	1935	7/7	0.98	0.17	-	68,68,68,68	0
92	OHX	1	3707	7/7	0.98	0.08	-	97,97,97,97	0
92	OHX	5	3713	7/7	0.97	0.24	-	53,53,53,53	0
93	MG	6	2153	1/1	0.78	0.30	-	86,86,86,86	0
93	MG	1	3978	1/1	0.91	0.31	-	65,65,65,65	0
93	MG	1	3874	1/1	0.84	0.40	-	33,33,33,33	0
93	MG	2	2078	1/1	0.81	0.44	-	92,92,92,92	0
93	MG	1	3753	1/1	0.95	0.16	-	40,40,40,40	0
92	OHX	1	3440	7/7	0.98	0.10	-	59,59,59,59	0
92	OHX	1	3598	7/7	0.99	0.15	-	78,78,78,78	0
93	MG	5	3959	1/1	0.90	0.28	-	38,38,38,38	0
93	MG	16	201	1/1	0.80	0.38	-	44,44,44,44	0
93	MG	1	3789	1/1	0.94	0.87	-	39,39,39,39	0
92	OHX	1	3596	7/7	0.98	0.39	-	60,60,60,60	0
92	OHX	2	2007	7/7	0.97	0.33	-	88,88,88,88	0
92	OHX	5	3567	7/7	0.99	0.13	-	58,58,58,58	0
92	OHX	5	3665	7/7	0.95	0.27	-	92,92,92,92	0
92	OHX	6	2030	7/7	0.97	0.25	-	74,74,74,74	0
93	MG	5	4048	1/1	0.97	0.20	-	40,40,40,40	0
93	MG	5	4031	1/1	0.88	0.16	-	56,56,56,56	0
93	MG	4	237	1/1	0.87	0.31	-	31,31,31,31	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
92	OHX	M9	201	7/7	0.97	0.33	-	74,74,74,74	0
93	MG	n9	102	1/1	0.97	0.86	-	29,29,29,29	0
93	MG	2	2132	1/1	0.77	0.46	-	76,76,76,76	0
93	MG	5	4032	1/1	0.90	0.39	-	33,33,33,33	0
93	MG	5	3997	1/1	0.90	0.20	-	34,34,34,34	0
93	MG	5	3994	1/1	0.90	0.67	-	40,40,40,40	0
93	MG	5	3818	1/1	0.98	0.27	-	43,43,43,43	0
93	MG	1	3740	1/1	0.96	0.43	-	33,33,33,33	0
93	MG	4	234	1/1	0.88	0.23	-	41,41,41,41	0
93	MG	5	3969	1/1	0.93	0.28	-	40,40,40,40	0
93	MG	1	3815	1/1	0.95	0.38	-	50,50,50,50	0
93	MG	5	3870	1/1	0.93	0.50	-	32,32,32,32	0
92	OHX	6	1986	7/7	0.98	0.24	-	77,77,77,77	0
93	MG	2	2138	1/1	0.75	0.61	-	87,87,87,87	0
93	MG	5	4024	1/1	0.91	0.26	-	37,37,37,37	0
92	OHX	5	3558	7/7	0.98	0.18	-	78,78,78,78	0
93	MG	1	4028	1/1	0.91	0.18	-	41,41,41,41	0
92	OHX	2	2033	7/7	0.95	0.19	-	123,123,123,123	0
93	MG	5	3791	1/1	0.83	0.51	-	36,36,36,36	0
93	MG	1	3970	1/1	0.91	0.63	-	42,42,42,42	0
93	MG	5	4007	1/1	0.96	0.64	-	37,37,37,37	0
92	OHX	4	210	7/7	0.98	0.22	-	53,53,53,53	0
93	MG	1	3910	1/1	0.98	0.54	-	29,29,29,29	0
93	MG	1	4089	1/1	0.92	0.61	-	44,44,44,44	0
93	MG	n6	201	1/1	0.67	0.43	-	46,46,46,46	0
93	MG	1	4048	1/1	0.94	0.52	-	43,43,43,43	0
93	MG	5	3993	1/1	0.92	0.52	-	38,38,38,38	0
93	MG	5	4080	1/1	0.92	0.21	-	32,32,32,32	0
93	MG	1	4070	1/1	0.90	0.20	-	46,46,46,46	0
93	MG	1	3870	1/1	0.82	0.40	-	49,49,49,49	0
93	MG	m6	205	1/1	0.86	0.47	-	36,36,36,36	0
93	MG	5	3790	1/1	0.91	0.79	-	34,34,34,34	0
93	MG	1	3967	1/1	0.89	0.24	-	32,32,32,32	0
93	MG	1	3766	1/1	0.97	0.49	-	47,47,47,47	0
93	MG	2	2070	1/1	0.80	0.72	-	71,71,71,71	0
93	MG	5	4086	1/1	0.51	0.46	-	34,34,34,34	0
93	MG	2	2108	1/1	0.54	0.34	-	92,92,92,92	0
93	MG	1	3872	1/1	0.99	0.23	-	41,41,41,41	0
93	MG	6	2114	1/1	0.55	0.50	-	89,89,89,89	0
93	MG	5	4011	1/1	0.95	0.69	-	43,43,43,43	0
92	OHX	5	3533	7/7	0.98	0.17	-	45,45,45,45	0
93	MG	1	4005	1/1	0.86	0.30	-	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
93	MG	m0	304	1/1	0.98	0.30	-	36,36,36,36	0
93	MG	1	3957	1/1	0.92	0.22	-	56,56,56,56	0
93	MG	1	3940	1/1	0.92	0.33	-	54,54,54,54	0
93	MG	2	2127	1/1	0.92	0.71	-	77,77,77,77	0
93	MG	6	2163	1/1	0.89	0.48	-	66,66,66,66	0
92	OHX	3	209	7/7	0.96	0.27	-	84,84,84,84	0
93	MG	5	3963	1/1	0.96	0.44	-	43,43,43,43	0
93	MG	2	2125	1/1	0.81	0.51	-	78,78,78,78	0
93	MG	6	2150	1/1	0.93	1.11	-	58,58,58,58	0
93	MG	6	2132	1/1	0.91	0.48	-	59,59,59,59	0
92	OHX	1	3583	7/7	0.97	0.22	-	53,53,53,53	0
93	MG	5	3968	1/1	0.99	0.09	-	49,49,49,49	0
92	OHX	1	3627	7/7	0.97	0.28	-	73,73,73,73	0
92	OHX	5	3518	7/7	0.99	0.13	-	55,55,55,55	0
92	OHX	2	1965	7/7	0.97	0.16	-	84,84,84,84	0
92	OHX	1	3680	7/7	0.96	0.27	-	67,67,67,67	0
92	OHX	1	3677	7/7	0.98	0.28	-	67,67,67,67	0
93	MG	5	3797	1/1	0.92	0.25	-	37,37,37,37	0
93	MG	5	3872	1/1	0.99	0.36	-	33,33,33,33	0
93	MG	D9	103	1/1	0.79	0.31	-	92,92,92,92	0
93	MG	1	3770	1/1	0.94	0.46	-	36,36,36,36	0
92	OHX	2	2034	7/7	0.97	0.26	-	87,87,87,87	0
93	MG	m6	203	1/1	0.73	0.32	-	34,34,34,34	0
92	OHX	1	3636	7/7	0.96	0.31	-	59,59,59,59	0
93	MG	5	3946	1/1	0.98	0.46	-	35,35,35,35	0
92	OHX	1	3555	7/7	0.99	0.12	-	70,70,70,70	0
93	MG	1	3865	1/1	0.91	0.69	-	49,49,49,49	0
93	MG	p	102	1/1	0.90	0.31	-	35,35,35,35	0
93	MG	5	4099	1/1	0.78	0.63	-	52,52,52,52	0
93	MG	5	3757	1/1	0.94	0.66	-	44,44,44,44	0
93	MG	6	2166	1/1	0.34	0.43	-	114,114,114,114	0
92	OHX	5	3657	7/7	0.98	0.28	-	64,64,64,64	0
93	MG	1	3964	1/1	0.80	1.10	-	45,45,45,45	0
92	OHX	5	3535	7/7	0.97	0.17	-	53,53,53,53	0
93	MG	5	3821	1/1	0.80	0.27	-	41,41,41,41	0
93	MG	6	2172	1/1	0.94	0.52	-	64,64,64,64	0
92	OHX	1	3706	7/7	0.97	0.27	-	74,74,74,74	0
93	MG	5	4148	1/1	0.86	0.33	-	48,48,48,48	0
93	MG	5	4122	1/1	0.98	0.21	-	34,34,34,34	0
93	MG	2	2104	1/1	0.86	0.47	-	97,97,97,97	0
93	MG	2	2064	1/1	0.88	0.31	-	85,85,85,85	0
93	MG	1	3954	1/1	0.83	0.25	-	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
93	MG	1	3855	1/1	0.79	0.78	-	56,56,56,56	0
93	MG	1	4121	1/1	0.95	0.24	-	38,38,38,38	0
93	MG	5	3774	1/1	0.98	0.86	-	46,46,46,46	0
93	MG	1	3768	1/1	0.87	0.43	-	46,46,46,46	0
93	MG	1	3849	1/1	0.98	0.30	-	34,34,34,34	0
93	MG	1	3990	1/1	0.80	0.45	-	40,40,40,40	0
92	OHX	6	1964	7/7	0.98	0.21	-	62,62,62,62	0
93	MG	3	212	1/1	0.95	0.53	-	59,59,59,59	0
92	OHX	2	2028	7/7	0.93	0.25	-	109,109,109,109	0
93	MG	1	4046	1/1	0.96	0.27	-	40,40,40,40	0
93	MG	5	3787	1/1	0.95	0.33	-	33,33,33,33	0
92	OHX	6	2003	7/7	0.96	0.20	-	89,89,89,89	0
92	OHX	7	208	7/7	0.98	0.23	-	61,61,61,61	0
93	MG	1	4124	1/1	0.95	0.30	-	46,46,46,46	0
92	OHX	5	3668	7/7	0.98	0.20	-	72,72,72,72	0
93	MG	1	3828	1/1	0.92	0.88	-	50,50,50,50	0
92	OHX	5	3564	7/7	0.99	0.20	-	72,72,72,72	0
93	MG	5	3981	1/1	0.85	0.20	-	50,50,50,50	0
93	MG	2	2101	1/1	0.72	0.40	-	79,79,79,79	0
92	OHX	5	3691	7/7	0.97	0.34	-	49,49,49,49	0
93	MG	L4	403	1/1	0.82	0.33	-	31,31,31,31	0
93	MG	2	2107	1/1	0.97	0.34	-	81,81,81,81	0
93	MG	5	4041	1/1	0.69	0.37	-	43,43,43,43	0
93	MG	2	2082	1/1	0.94	0.43	-	74,74,74,74	0
93	MG	m4	201	1/1	0.91	0.29	-	42,42,42,42	0
92	OHX	4	216	7/7	0.97	0.28	-	57,57,57,57	0
93	MG	1	4085	1/1	0.90	0.28	-	33,33,33,33	0
93	MG	6	2125	1/1	0.64	0.88	-	57,57,57,57	0
93	MG	6	2133	1/1	0.57	0.34	-	94,94,94,94	0
93	MG	6	2102	1/1	0.78	0.48	-	96,96,96,96	0
93	MG	1	3782	1/1	0.96	0.36	-	41,41,41,41	0
92	OHX	6	1967	7/7	0.96	0.17	-	78,78,78,78	0
92	OHX	5	3741	7/7	0.98	0.11	-	59,59,59,59	0
93	MG	5	3786	1/1	0.89	0.38	-	37,37,37,37	0
93	MG	2	2117	1/1	0.27	0.55	-	94,94,94,94	0
92	OHX	1	3673	7/7	0.96	0.34	-	67,67,67,67	0
93	MG	1	3936	1/1	0.96	0.45	-	40,40,40,40	0
92	OHX	2	1952	7/7	0.97	0.24	-	104,104,104,104	0
92	OHX	1	3701	7/7	0.95	0.26	-	87,87,87,87	0
93	MG	1	3987	1/1	0.94	0.35	-	43,43,43,43	0
93	MG	5	3800	1/1	0.89	0.44	-	52,52,52,52	0
93	MG	1	3734	1/1	0.92	0.48	-	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
93	MG	5	4101	1/1	0.97	0.43	-	33,33,33,33	0
92	OHX	2	1939	7/7	0.97	0.14	-	92,92,92,92	0
93	MG	5	4060	1/1	0.95	0.26	-	47,47,47,47	0
93	MG	5	4108	1/1	0.85	0.51	-	37,37,37,37	0
93	MG	5	3814	1/1	0.90	0.23	-	42,42,42,42	0
92	OHX	6	1934	7/7	0.99	0.12	-	68,68,68,68	0
93	MG	5	3881	1/1	0.94	0.71	-	36,36,36,36	0
92	OHX	2	2026	7/7	0.95	0.28	-	109,109,109,109	0
93	MG	5	3828	1/1	0.89	0.28	-	43,43,43,43	0
92	OHX	1	3564	7/7	0.98	0.21	-	70,70,70,70	0
93	MG	5	3964	1/1	0.91	0.53	-	46,46,46,46	0
92	OHX	1	3600	7/7	0.99	0.30	-	58,58,58,58	0
93	MG	M7	203	1/1	0.97	0.20	-	38,38,38,38	0
92	OHX	1	3558	7/7	0.98	0.19	-	74,74,74,74	0
92	OHX	1	3458	7/7	0.99	0.10	-	53,53,53,53	0
93	MG	3	211	1/1	0.96	0.28	-	60,60,60,60	0
93	MG	1	4110	1/1	0.79	0.25	-	43,43,43,43	0
92	OHX	1	3561	7/7	0.95	0.22	-	60,60,60,60	0
92	OHX	8	205	7/7	0.98	0.12	-	75,75,75,75	0
93	MG	5	3995	1/1	0.90	0.37	-	41,41,41,41	0
93	MG	1	4113	1/1	0.99	0.19	-	59,59,59,59	0
93	MG	5	3975	1/1	0.94	0.12	-	46,46,46,46	0
93	MG	5	3764	1/1	0.77	0.38	-	34,34,34,34	0
92	OHX	2	2014	7/7	0.95	0.17	-	107,107,107,107	0
93	MG	6	2164	1/1	0.91	0.25	-	57,57,57,57	0
93	MG	1	3863	1/1	0.96	0.34	-	36,36,36,36	0
92	OHX	1	3436	7/7	0.98	0.09	-	63,63,63,63	0
93	MG	5	4026	1/1	0.93	0.28	-	49,49,49,49	0
92	OHX	2	1998	7/7	0.97	0.38	-	95,95,95,95	0
93	MG	8	221	1/1	0.94	0.51	-	39,39,39,39	0
93	MG	5	3836	1/1	0.87	0.27	-	41,41,41,41	0
93	MG	3	213	1/1	0.98	0.68	-	39,39,39,39	0
92	OHX	2	1928	7/7	0.98	0.15	-	79,79,79,79	0
92	OHX	5	3733	7/7	0.98	0.25	-	74,74,74,74	0
93	MG	6	2141	1/1	0.70	0.51	-	95,95,95,95	0
93	MG	5	3807	1/1	0.81	0.41	-	36,36,36,36	0
93	MG	5	3876	1/1	0.76	0.63	-	35,35,35,35	0
93	MG	7	224	1/1	0.95	0.17	-	36,36,36,36	0
93	MG	1	3774	1/1	0.71	0.63	-	51,51,51,51	0
92	OHX	1	3480	7/7	0.98	0.11	-	67,67,67,67	0
92	OHX	1	3652	7/7	0.98	0.25	-	64,64,64,64	0
93	MG	5	4138	1/1	0.88	0.45	-	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
93	MG	1	3847	1/1	0.96	0.30	-	33,33,33,33	0
93	MG	5	3856	1/1	0.94	0.52	-	53,53,53,53	0
93	MG	1	3961	1/1	0.77	0.35	-	40,40,40,40	0
92	OHX	5	3697	7/7	0.97	0.31	-	70,70,70,70	0
93	MG	5	4088	1/1	0.76	0.40	-	41,41,41,41	0
92	OHX	8	201	7/7	0.99	0.11	-	41,41,41,41	0
92	OHX	5	3701	7/7	0.95	0.37	-	53,53,53,53	0
93	MG	1	4111	1/1	0.89	0.61	-	41,41,41,41	0
93	MG	5	4135	1/1	0.91	0.48	-	47,47,47,47	0
93	MG	5	3989	1/1	0.97	0.14	-	38,38,38,38	0
93	MG	2	2077	1/1	0.91	1.23	-	59,59,59,59	0
93	MG	6	2154	1/1	0.85	0.30	-	94,94,94,94	0
92	OHX	m9	201	7/7	0.96	0.42	-	89,89,89,89	0
93	MG	2	2091	1/1	0.95	0.36	-	77,77,77,77	0
92	OHX	2	1927	7/7	0.98	0.12	-	85,85,85,85	0
92	OHX	5	3470	7/7	0.99	0.12	-	48,48,48,48	0
93	MG	l2	301	1/1	0.96	0.62	-	42,42,42,42	0
93	MG	5	3956	1/1	0.90	0.11	-	48,48,48,48	0
92	OHX	1	3618	7/7	0.98	0.31	-	68,68,68,68	0
93	MG	5	4004	1/1	0.95	0.29	-	43,43,43,43	0
93	MG	1	3997	1/1	0.88	0.41	-	40,40,40,40	0
93	MG	2	2136	1/1	0.91	0.17	-	90,90,90,90	0
93	MG	1	3827	1/1	0.83	0.36	-	33,33,33,33	0
93	MG	1	3850	1/1	0.88	0.50	-	39,39,39,39	0
93	MG	1	3956	1/1	0.67	0.29	-	50,50,50,50	0
93	MG	5	4087	1/1	0.97	0.59	-	49,49,49,49	0
93	MG	1	3748	1/1	0.84	0.86	-	49,49,49,49	0
93	MG	5	4068	1/1	0.81	0.25	-	42,42,42,42	0
93	MG	5	3825	1/1	0.89	0.59	-	50,50,50,50	0
93	MG	5	3835	1/1	0.72	0.35	-	40,40,40,40	0
92	OHX	1	3464	7/7	0.99	0.09	-	54,54,54,54	0
93	MG	5	3796	1/1	0.97	0.31	-	37,37,37,37	0
93	MG	1	3751	1/1	0.94	0.45	-	39,39,39,39	0
93	MG	m7	202	1/1	0.89	0.27	-	36,36,36,36	0
92	OHX	2	2045	7/7	0.95	0.45	-	100,100,100,100	0
93	MG	1	3959	1/1	0.90	0.33	-	36,36,36,36	0
93	MG	5	3861	1/1	0.96	0.45	-	30,30,30,30	0
93	MG	1	3788	1/1	0.98	0.41	-	49,49,49,49	0
93	MG	1	4004	1/1	0.96	0.23	-	39,39,39,39	0
93	MG	2	2075	1/1	0.76	0.21	-	96,96,96,96	0
93	MG	N8	205	1/1	0.94	0.24	-	35,35,35,35	0
92	OHX	6	2045	7/7	0.96	0.34	-	94,94,94,94	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
92	OHX	1	3602	7/7	0.94	0.34	-	62,62,62,62	0
93	MG	5	3902	1/1	0.86	0.20	-	49,49,49,49	0
93	MG	6	2103	1/1	0.94	0.59	-	62,62,62,62	0
93	MG	5	3832	1/1	0.98	0.24	-	35,35,35,35	0
92	OHX	5	3539	7/7	0.99	0.23	-	47,47,47,47	0
92	OHX	2	1980	7/7	0.95	0.18	-	140,140,140,140	0
92	OHX	8	206	7/7	0.97	0.18	-	57,57,57,57	0
92	OHX	c8	201	7/7	0.97	0.19	-	96,96,96,96	0
93	MG	1	3778	1/1	0.87	0.32	-	31,31,31,31	0
93	MG	1	3975	1/1	0.94	0.47	-	35,35,35,35	0
92	OHX	2	1947	7/7	0.93	0.22	-	106,106,106,106	0
93	MG	6	2174	1/1	0.93	0.24	-	60,60,60,60	0
93	MG	1	3733	1/1	0.78	0.86	-	48,48,48,48	0
93	MG	1	3848	1/1	0.45	1.16	-	36,36,36,36	0
92	OHX	6	2004	7/7	0.98	0.21	-	84,84,84,84	0
93	MG	l5	303	1/1	0.82	0.14	-	50,50,50,50	0
93	MG	1	3839	1/1	0.92	0.45	-	46,46,46,46	0
93	MG	5	4061	1/1	0.81	0.64	-	33,33,33,33	0
92	OHX	5	3423	7/7	0.99	0.11	-	51,51,51,51	0
92	OHX	6	1994	7/7	0.97	0.27	-	98,98,98,98	0
92	OHX	5	3683	7/7	0.98	0.27	-	83,83,83,83	0
93	MG	5	4129	1/1	0.88	0.52	-	36,36,36,36	0
93	MG	5	4042	1/1	0.91	0.15	-	54,54,54,54	0
92	OHX	8	207	7/7	0.98	0.29	-	56,56,56,56	0
92	OHX	1	3628	7/7	0.99	0.21	-	62,62,62,62	0
93	MG	5	3799	1/1	0.94	0.18	-	38,38,38,38	0
93	MG	5	4059	1/1	0.94	0.38	-	35,35,35,35	0
92	OHX	1	3504	7/7	0.98	0.14	-	75,75,75,75	0
93	MG	5	4150	1/1	0.66	0.31	-	41,41,41,41	0
92	OHX	5	3435	7/7	0.98	0.08	-	46,46,46,46	0
93	MG	5	3830	1/1	0.88	0.30	-	35,35,35,35	0
92	OHX	5	3727	7/7	0.96	0.42	-	60,60,60,60	0
92	OHX	c3	201	7/7	0.94	0.24	-	89,89,89,89	0
93	MG	5	4073	1/1	0.93	0.29	-	35,35,35,35	0
93	MG	2	2118	1/1	0.68	0.42	-	92,92,92,92	0
93	MG	N8	201	1/1	0.91	0.21	-	31,31,31,31	0
93	MG	1	3994	1/1	0.88	0.47	-	45,45,45,45	0
93	MG	8	229	1/1	0.88	0.23	-	40,40,40,40	0
93	MG	1	4024	1/1	0.90	0.36	-	60,60,60,60	0
93	MG	1	3830	1/1	0.99	0.60	-	38,38,38,38	0
93	MG	1	3999	1/1	0.95	0.51	-	43,43,43,43	0
92	OHX	1	3624	7/7	0.98	0.21	-	81,81,81,81	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
92	OHX	6	2055	7/7	0.92	0.27	-	118,118,118,118	0
93	MG	5	4116	1/1	0.85	0.23	-	44,44,44,44	0
92	OHX	1	3659	7/7	0.97	0.26	-	73,73,73,73	0
92	OHX	1	3491	7/7	0.99	0.17	-	53,53,53,53	0
93	MG	5	3845	1/1	0.89	0.29	-	34,34,34,34	0
93	MG	7	217	1/1	0.96	0.47	-	33,33,33,33	0
93	MG	6	2144	1/1	0.93	0.23	-	94,94,94,94	0
93	MG	1	4006	1/1	0.93	0.42	-	45,45,45,45	0
93	MG	1	3736	1/1	0.67	0.46	-	125,125,125,125	0
92	OHX	5	3596	7/7	0.98	0.27	-	48,48,48,48	0
93	MG	5	3805	1/1	0.96	0.31	-	34,34,34,34	0
92	OHX	4	217	7/7	0.97	0.33	-	69,69,69,69	0
93	MG	1	4053	1/1	0.84	0.41	-	59,59,59,59	0
92	OHX	5	3633	7/7	0.96	0.31	-	65,65,65,65	0
93	MG	1	3886	1/1	0.98	0.19	-	53,53,53,53	0
92	OHX	1	3719	7/7	0.95	0.37	-	83,83,83,83	0
93	MG	5	4064	1/1	0.60	0.34	-	59,59,59,59	0
92	OHX	6	2011	7/7	0.98	0.30	-	72,72,72,72	0
93	MG	5	4038	1/1	0.91	0.32	-	41,41,41,41	0
93	MG	5	3779	1/1	0.87	0.29	-	48,48,48,48	0
93	MG	1	3793	1/1	0.92	0.42	-	38,38,38,38	0
92	OHX	5	3568	7/7	0.99	0.23	-	53,53,53,53	0
93	MG	5	3965	1/1	0.96	0.13	-	36,36,36,36	0
92	OHX	5	3592	7/7	0.98	0.23	-	62,62,62,62	0
92	OHX	8	209	7/7	0.96	0.26	-	78,78,78,78	0
93	MG	8	219	1/1	0.86	0.25	-	49,49,49,49	0
93	MG	1	3808	1/1	0.93	0.27	-	48,48,48,48	0
93	MG	5	3952	1/1	0.96	0.41	-	34,34,34,34	0
92	OHX	6	1940	7/7	0.98	0.13	-	59,59,59,59	0
93	MG	1	4043	1/1	0.74	0.46	-	43,43,43,43	0
93	MG	1	4054	1/1	0.62	0.41	-	34,34,34,34	0
93	MG	5	3875	1/1	0.93	0.38	-	51,51,51,51	0
92	OHX	1	3633	7/7	0.99	0.19	-	72,72,72,72	0
93	MG	5	3923	1/1	0.94	0.56	-	31,31,31,31	0
93	MG	5	4089	1/1	0.96	0.12	-	41,41,41,41	0
92	OHX	2	1937	7/7	0.98	0.14	-	84,84,84,84	0
93	MG	5	3935	1/1	0.98	0.59	-	31,31,31,31	0
93	MG	2	2134	1/1	0.92	0.97	-	59,59,59,59	0
93	MG	1	3905	1/1	0.78	0.62	-	38,38,38,38	0
93	MG	4	223	1/1	0.87	0.50	-	49,49,49,49	0
93	MG	1	3906	1/1	0.97	0.35	-	35,35,35,35	0
93	MG	2	2133	1/1	0.87	0.26	-	85,85,85,85	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
93	MG	5	4103	1/1	0.96	0.71	-	60,60,60,60	0
93	MG	5	4143	1/1	0.90	0.64	-	39,39,39,39	0
92	OHX	5	3725	7/7	0.96	0.37	-	55,55,55,55	0
93	MG	1	3759	1/1	0.90	1.04	-	41,41,41,41	0
93	MG	8	225	1/1	0.86	0.36	-	62,62,62,62	0
92	OHX	6	1905	7/7	0.98	0.11	-	73,73,73,73	0
93	MG	2	2100	1/1	0.74	0.29	-	102,102,102,102	0
93	MG	6	2182	1/1	0.59	0.31	-	66,66,66,66	0
93	MG	5	3782	1/1	0.91	0.24	-	35,35,35,35	0
93	MG	1	4013	1/1	0.82	0.40	-	50,50,50,50	0
92	OHX	5	3468	7/7	0.99	0.12	-	70,70,70,70	0
93	MG	5	4081	1/1	0.88	0.56	-	43,43,43,43	0
93	MG	1	3749	1/1	0.83	0.38	-	69,69,69,69	0
92	OHX	2	1977	7/7	0.97	0.21	-	99,99,99,99	0
93	MG	1	3968	1/1	0.85	0.54	-	51,51,51,51	0
93	MG	1	4018	1/1	0.86	0.29	-	61,61,61,61	0
93	MG	1	3861	1/1	0.91	0.68	-	44,44,44,44	0
92	OHX	5	3711	7/7	0.96	0.25	-	89,89,89,89	0
92	OHX	5	3653	7/7	0.98	0.27	-	59,59,59,59	0
93	MG	5	4175	1/1	0.72	0.19	-	81,81,81,81	0
93	MG	5	3834	1/1	0.97	0.76	-	41,41,41,41	0
93	MG	5	3976	1/1	0.91	0.36	-	38,38,38,38	0
93	MG	5	4066	1/1	0.97	1.00	-	31,31,31,31	0
93	MG	1	4075	1/1	0.82	0.30	-	54,54,54,54	0
93	MG	1	3955	1/1	0.86	0.22	-	57,57,57,57	0
92	OHX	1	3456	7/7	0.99	0.09	-	50,50,50,50	0
93	MG	5	4000	1/1	0.80	0.31	-	39,39,39,39	0
93	MG	1	3783	1/1	0.61	0.53	-	41,41,41,41	0
93	MG	5	4152	1/1	0.84	0.42	-	34,34,34,34	0
93	MG	5	4050	1/1	0.73	0.38	-	57,57,57,57	0
93	MG	2	2063	1/1	0.93	0.28	-	74,74,74,74	0
93	MG	19	202	1/1	0.81	0.33	-	41,41,41,41	0
92	OHX	6	1963	7/7	0.98	0.14	-	78,78,78,78	0
93	MG	1	3933	1/1	0.80	0.44	-	37,37,37,37	0
93	MG	5	3784	1/1	0.97	0.38	-	42,42,42,42	0
93	MG	5	4085	1/1	0.95	0.54	-	35,35,35,35	0
93	MG	5	4006	1/1	0.86	0.69	-	29,29,29,29	0
93	MG	5	4002	1/1	0.87	0.37	-	40,40,40,40	0
93	MG	5	3973	1/1	0.75	0.23	-	84,84,84,84	0
93	MG	n9	103	1/1	0.95	0.46	-	34,34,34,34	0
93	MG	1	3866	1/1	0.97	0.43	-	31,31,31,31	0
92	OHX	1	3521	7/7	0.98	0.15	-	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
93	MG	5	4172	1/1	0.94	0.46	-	47,47,47,47	0
92	OHX	5	3704	7/7	0.95	0.19	-	57,57,57,57	0
93	MG	1	4061	1/1	0.82	0.27	-	37,37,37,37	0
92	OHX	5	3746	7/7	0.99	0.10	-	70,70,70,70	0
93	MG	2	2074	1/1	0.93	0.68	-	80,80,80,80	0
92	OHX	1	3692	7/7	0.98	0.25	-	80,80,80,80	0
92	OHX	5	3425	7/7	0.99	0.09	-	41,41,41,41	0
92	OHX	2	1930	7/7	0.97	0.12	-	95,95,95,95	0
93	MG	6	2184	1/1	0.98	0.17	-	57,57,57,57	0
92	OHX	1	3509	7/7	0.98	0.10	-	67,67,67,67	0
93	MG	2	2079	1/1	0.98	0.37	-	85,85,85,85	0
93	MG	5	4128	1/1	0.66	0.55	-	57,57,57,57	0
93	MG	5	3926	1/1	0.90	0.54	-	36,36,36,36	0
93	MG	1	3946	1/1	0.99	0.11	-	39,39,39,39	0
93	MG	1	4069	1/1	0.91	0.23	-	43,43,43,43	0
93	MG	1	3838	1/1	0.99	0.56	-	39,39,39,39	0
93	MG	1	3930	1/1	0.94	0.49	-	51,51,51,51	0
93	MG	1	3986	1/1	0.91	0.20	-	42,42,42,42	0
93	MG	5	3817	1/1	0.77	0.29	-	46,46,46,46	0
93	MG	5	3863	1/1	0.96	0.59	-	39,39,39,39	0
93	MG	7	214	1/1	0.95	0.39	-	47,47,47,47	0
93	MG	6	2066	1/1	0.92	0.10	-	89,89,89,89	0
92	OHX	5	3547	7/7	0.98	0.19	-	68,68,68,68	0
93	MG	5	3883	1/1	0.92	0.93	-	35,35,35,35	0
93	MG	1	3943	1/1	0.87	0.26	-	33,33,33,33	0
92	OHX	5	3650	7/7	0.99	0.23	-	71,71,71,71	0
95	PHE	1	3401	11/12	0.92	0.26	-	34,34,44,44	0
93	MG	6	2152	1/1	0.20	1.10	-	62,62,62,62	0
93	MG	1	4081	1/1	0.98	0.48	-	33,33,33,33	0
92	OHX	5	3679	7/7	0.97	0.34	-	55,55,55,55	0
93	MG	5	3873	1/1	0.94	0.22	-	33,33,33,33	0
92	OHX	2	1960	7/7	0.97	0.21	-	100,100,100,100	0
93	MG	5	4083	1/1	0.84	0.36	-	32,32,32,32	0
92	OHX	6	2021	7/7	0.97	0.34	-	84,84,84,84	0
92	OHX	1	3724	7/7	0.97	0.30	-	65,65,65,65	0
92	OHX	C8	201	7/7	0.98	0.11	-	80,80,80,80	0
92	OHX	1	3704	7/7	0.94	0.33	-	82,82,82,82	0
93	MG	2	2083	1/1	0.97	0.62	-	83,83,83,83	0
93	MG	6	2178	1/1	0.63	0.29	-	67,67,67,67	0
92	OHX	1	3559	7/7	0.98	0.12	-	69,69,69,69	0
93	MG	5	3987	1/1	0.73	0.62	-	42,42,42,42	0
92	OHX	5	3655	7/7	0.98	0.39	-	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
93	MG	6	2075	1/1	0.96	0.44	-	71,71,71,71	0
93	MG	1	3980	1/1	0.75	0.45	-	48,48,48,48	0
92	OHX	2	1929	7/7	0.98	0.14	-	83,83,83,83	0
93	MG	5	3927	1/1	0.95	0.47	-	38,38,38,38	0
93	MG	4	232	1/1	0.96	0.20	-	44,44,44,44	0
93	MG	1	4021	1/1	0.96	0.29	-	39,39,39,39	0
93	MG	6	2143	1/1	0.85	0.48	-	75,75,75,75	0
93	MG	5	4126	1/1	0.95	0.40	-	40,40,40,40	0
93	MG	5	4156	1/1	0.83	0.59	-	52,52,52,52	0
93	MG	6	2176	1/1	0.91	0.36	-	58,58,58,58	0
93	MG	8	230	1/1	0.84	0.45	-	56,56,56,56	0
93	MG	5	4127	1/1	0.88	0.26	-	41,41,41,41	0
93	MG	6	2151	1/1	0.87	0.48	-	64,64,64,64	0
93	MG	5	4029	1/1	0.91	0.18	-	40,40,40,40	0
92	OHX	1	3450	7/7	0.98	0.12	-	56,56,56,56	0
93	MG	1	4051	1/1	0.92	0.97	-	53,53,53,53	0
93	MG	5	4010	1/1	0.88	0.30	-	56,56,56,56	0
92	OHX	2	2044	7/7	0.89	0.44	-	88,88,88,88	0
93	MG	1	3929	1/1	0.95	0.31	-	51,51,51,51	0
93	MG	1	3951	1/1	0.91	0.40	-	44,44,44,44	0
92	OHX	5	3477	7/7	0.97	0.12	-	56,56,56,56	0
92	OHX	5	3513	7/7	0.99	0.12	-	60,60,60,60	0
93	MG	6	2111	1/1	0.60	0.46	-	69,69,69,69	0
92	OHX	6	2043	7/7	0.97	0.40	-	81,81,81,81	0
93	MG	5	3971	1/1	0.62	0.66	-	73,73,73,73	0
92	OHX	6	1936	7/7	0.99	0.11	-	74,74,74,74	0
93	MG	1	4003	1/1	0.95	0.25	-	41,41,41,41	0
92	OHX	1	3722	7/7	0.92	0.45	-	62,62,62,62	0
93	MG	5	3849	1/1	0.94	0.42	-	33,33,33,33	0
93	MG	5	4033	1/1	0.81	0.51	-	54,54,54,54	0
92	OHX	5	3635	7/7	0.98	0.26	-	57,57,57,57	0
93	MG	1	3950	1/1	0.93	0.48	-	36,36,36,36	0
93	MG	5	3857	1/1	0.98	0.51	-	31,31,31,31	0
93	MG	7	219	1/1	0.91	0.35	-	45,45,45,45	0
93	MG	5	3816	1/1	0.94	0.54	-	38,38,38,38	0
93	MG	5	4146	1/1	0.94	0.37	-	32,32,32,32	0
93	MG	6	2076	1/1	0.63	0.32	-	70,70,70,70	0
92	OHX	1	3445	7/7	0.99	0.10	-	66,66,66,66	0
93	MG	1	4119	1/1	0.82	0.25	-	44,44,44,44	0
93	MG	1	3913	1/1	0.79	0.53	-	43,43,43,43	0
93	MG	4	224	1/1	0.88	0.61	-	49,49,49,49	0
93	MG	5	4166	1/1	0.93	0.63	-	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
93	MG	1	3757	1/1	0.77	0.43	-	43,43,43,43	0
93	MG	1	3998	1/1	0.90	0.34	-	43,43,43,43	0
92	OHX	5	3649	7/7	0.97	0.30	-	50,50,50,50	0
93	MG	5	4096	1/1	1.00	0.12	-	32,32,32,32	0
93	MG	5	4040	1/1	0.95	0.38	-	37,37,37,37	0
92	OHX	2	1953	7/7	0.98	0.21	-	83,83,83,83	0
92	OHX	1	3700	7/7	0.97	0.41	-	80,80,80,80	0
93	MG	5	3915	1/1	0.93	0.62	-	30,30,30,30	0
93	MG	1	3962	1/1	0.91	0.41	-	31,31,31,31	0
93	MG	2	2135	1/1	0.88	0.58	-	68,68,68,68	0
93	MG	6	2137	1/1	0.77	0.45	-	85,85,85,85	0
93	MG	5	4015	1/1	0.91	0.40	-	38,38,38,38	0
93	MG	5	4111	1/1	0.96	0.19	-	49,49,49,49	0
92	OHX	6	2017	7/7	0.95	0.32	-	99,99,99,99	0
93	MG	6	2119	1/1	0.96	0.31	-	59,59,59,59	0
92	OHX	2	2041	7/7	0.95	0.35	-	83,83,83,83	0
93	MG	6	2162	1/1	0.93	0.31	-	55,55,55,55	0
93	MG	5	3803	1/1	0.98	0.20	-	32,32,32,32	0
93	MG	1	4083	1/1	0.94	0.47	-	54,54,54,54	0
93	MG	6	2091	1/1	0.64	0.73	-	66,66,66,66	0
93	MG	5	4021	1/1	0.74	0.54	-	50,50,50,50	0
93	MG	6	2065	1/1	0.96	0.32	-	61,61,61,61	0
93	MG	1	3791	1/1	0.95	0.43	-	32,32,32,32	0
92	OHX	6	1937	7/7	0.96	0.15	-	81,81,81,81	0
93	MG	6	2169	1/1	0.69	0.44	-	97,97,97,97	0
93	MG	1	3935	1/1	0.86	0.41	-	37,37,37,37	0
93	MG	5	3940	1/1	0.97	0.70	-	34,34,34,34	0
93	MG	5	4035	1/1	0.81	0.32	-	47,47,47,47	0
93	MG	2	2058	1/1	0.92	0.23	-	81,81,81,81	0
93	MG	6	2078	1/1	0.85	0.23	-	58,58,58,58	0
93	MG	5	3855	1/1	0.89	0.23	-	36,36,36,36	0
93	MG	5	3887	1/1	0.89	0.32	-	34,34,34,34	0
93	MG	5	3831	1/1	0.95	0.25	-	41,41,41,41	0
93	MG	5	4055	1/1	0.94	0.28	-	43,43,43,43	0
92	OHX	1	3593	7/7	0.98	0.17	-	86,86,86,86	0
92	OHX	5	3510	7/7	0.99	0.10	-	90,90,90,90	0
93	MG	6	2087	1/1	0.87	0.29	-	66,66,66,66	0
93	MG	5	3991	1/1	0.91	0.20	-	44,44,44,44	0
92	OHX	4	213	7/7	0.97	0.22	-	72,72,72,72	0
93	MG	3	217	1/1	0.97	0.49	-	39,39,39,39	0
92	OHX	5	3640	7/7	0.99	0.25	-	58,58,58,58	0
93	MG	1	4062	1/1	0.86	0.34	-	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
93	MG	1	4001	1/1	0.75	0.39	-	61,61,61,61	0
92	OHX	5	3455	7/7	0.98	0.12	-	58,58,58,58	0
93	MG	1	3991	1/1	0.95	0.31	-	39,39,39,39	0
92	OHX	1	3604	7/7	0.96	0.33	-	62,62,62,62	0
93	MG	5	4003	1/1	0.94	0.27	-	37,37,37,37	0
93	MG	5	4142	1/1	0.67	0.25	-	60,60,60,60	0
93	MG	5	4133	1/1	0.86	0.41	-	35,35,35,35	0
93	MG	5	4125	1/1	0.98	0.21	-	39,39,39,39	0
93	MG	5	3823	1/1	0.96	0.48	-	55,55,55,55	0
93	MG	1	3773	1/1	0.95	0.16	-	57,57,57,57	0
92	OHX	1	3454	7/7	0.98	0.11	-	59,59,59,59	0
93	MG	5	3798	1/1	0.85	0.60	-	42,42,42,42	0
93	MG	o3	202	1/1	0.92	0.42	-	44,44,44,44	0
93	MG	5	4118	1/1	0.88	0.56	-	44,44,44,44	0
92	OHX	1	3622	7/7	0.98	0.24	-	79,79,79,79	0
92	OHX	4	219	7/7	0.96	0.30	-	65,65,65,65	0
92	OHX	5	3545	7/7	0.99	0.18	-	66,66,66,66	0
93	MG	5	3980	1/1	0.90	0.28	-	56,56,56,56	0
92	OHX	2	2002	7/7	0.98	0.34	-	86,86,86,86	0
93	MG	5	4067	1/1	0.76	0.60	-	37,37,37,37	0
93	MG	1	3743	1/1	0.88	0.48	-	41,41,41,41	0
93	MG	5	3862	1/1	0.80	0.52	-	32,32,32,32	0
92	OHX	5	3734	7/7	0.98	0.25	-	91,91,91,91	0
93	MG	2	2067	1/1	0.88	0.59	-	78,78,78,78	0
92	OHX	1	3641	7/7	0.98	0.27	-	70,70,70,70	0
93	MG	5	4134	1/1	0.80	0.34	-	50,50,50,50	0
93	MG	6	2161	1/1	0.89	0.38	-	59,59,59,59	0
92	OHX	2	1961	7/7	0.97	0.24	-	103,103,103,103	0
93	MG	5	4161	1/1	0.96	0.20	-	57,57,57,57	0
92	OHX	1	3661	7/7	0.97	0.22	-	77,77,77,77	0
93	MG	2	2056	1/1	0.83	0.31	-	74,74,74,74	0
93	MG	5	3957	1/1	0.90	0.61	-	35,35,35,35	0
93	MG	5	4016	1/1	0.95	0.35	-	42,42,42,42	0
93	MG	5	3810	1/1	0.87	0.34	-	37,37,37,37	0
93	MG	1	3982	1/1	0.88	0.21	-	58,58,58,58	0
93	MG	1	3787	1/1	0.93	0.39	-	33,33,33,33	0
93	MG	5	4057	1/1	0.80	0.21	-	48,48,48,48	0
92	OHX	6	1983	7/7	0.98	0.17	-	89,89,89,89	0
92	OHX	2	1920	7/7	0.99	0.08	-	76,76,76,76	0
93	MG	6	2093	1/1	0.61	0.48	-	90,90,90,90	0
93	MG	5	3760	1/1	0.90	0.20	-	32,32,32,32	0
93	MG	1	4117	1/1	0.97	0.18	-	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
92	OHX	1	3651	7/7	0.97	0.19	-	57,57,57,57	0
93	MG	5	3996	1/1	0.95	0.45	-	31,31,31,31	0
93	MG	1	4022	1/1	0.86	0.19	-	83,83,83,83	0
93	MG	3	216	1/1	0.90	0.12	-	59,59,59,59	0
93	MG	6	2127	1/1	0.87	0.25	-	54,54,54,54	0
92	OHX	1	3497	7/7	0.99	0.10	-	53,53,53,53	0
92	OHX	5	3626	7/7	0.96	0.31	-	79,79,79,79	0
93	MG	5	4063	1/1	0.92	0.47	-	39,39,39,39	0
93	MG	1	4095	1/1	0.95	0.44	-	37,37,37,37	0
92	OHX	1	3634	7/7	0.98	0.24	-	66,66,66,66	0
93	MG	6	2115	1/1	0.84	0.37	-	69,69,69,69	0
93	MG	1	3799	1/1	0.93	0.26	-	34,34,34,34	0
93	MG	1	4065	1/1	0.90	1.04	-	54,54,54,54	0
93	MG	1	3837	1/1	0.93	0.63	-	34,34,34,34	0
93	MG	5	4123	1/1	0.94	0.24	-	33,33,33,33	0
93	MG	6	2062	1/1	0.76	0.73	-	61,61,61,61	0
93	MG	1	3735	1/1	0.96	0.48	-	53,53,53,53	0
93	MG	5	4056	1/1	0.91	0.24	-	36,36,36,36	0
93	MG	1	4120	1/1	0.93	0.31	-	58,58,58,58	0
92	OHX	5	3667	7/7	0.97	0.24	-	51,51,51,51	0
92	OHX	5	3682	7/7	0.95	0.29	-	61,61,61,61	0
93	MG	5	4155	1/1	0.93	0.32	-	40,40,40,40	0
92	OHX	2	1984	7/7	0.98	0.24	-	83,83,83,83	0
93	MG	1	3846	1/1	0.86	0.53	-	38,38,38,38	0
93	MG	1	3797	1/1	0.91	0.32	-	35,35,35,35	0
92	OHX	6	2053	7/7	0.96	0.32	-	87,87,87,87	0
93	MG	2	2088	1/1	0.92	0.39	-	77,77,77,77	0
93	MG	1	3960	1/1	0.94	0.17	-	41,41,41,41	0
93	MG	4	222	1/1	0.88	0.50	-	48,48,48,48	0
93	MG	6	2129	1/1	0.74	0.66	-	61,61,61,61	0
92	OHX	6	2036	7/7	0.95	0.33	-	73,73,73,73	0
93	MG	1	3981	1/1	0.95	1.02	-	63,63,63,63	0
92	OHX	5	3471	7/7	0.98	0.12	-	53,53,53,53	0
93	MG	1	3834	1/1	0.93	0.44	-	39,39,39,39	0
93	MG	o9	101	1/1	0.69	0.51	-	41,41,41,41	0
93	MG	6	2185	1/1	0.94	0.39	-	92,92,92,92	0
93	MG	5	3829	1/1	0.95	0.58	-	31,31,31,31	0
93	MG	1	3885	1/1	0.95	0.55	-	35,35,35,35	0
93	MG	6	2130	1/1	0.73	0.52	-	67,67,67,67	0
93	MG	8	226	1/1	0.93	0.52	-	53,53,53,53	0
93	MG	5	4173	1/1	0.96	0.20	-	42,42,42,42	0
93	MG	1	3965	1/1	0.61	0.62	-	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
93	MG	5	3808	1/1	0.66	0.24	-	50,50,50,50	0
93	MG	1	3992	1/1	0.97	0.26	-	45,45,45,45	0
93	MG	6	2120	1/1	0.68	0.54	-	102,102,102,102	0
92	OHX	1	3495	7/7	0.99	0.12	-	67,67,67,67	0
93	MG	5	4091	1/1	0.90	0.22	-	51,51,51,51	0
93	MG	2	2068	1/1	0.83	0.83	-	75,75,75,75	0
92	OHX	1	3609	7/7	0.98	0.26	-	71,71,71,71	0
93	MG	L4	402	1/1	0.94	0.35	-	50,50,50,50	0
92	OHX	1	3613	7/7	0.95	0.28	-	87,87,87,87	0
93	MG	1	3795	1/1	0.92	0.52	-	58,58,58,58	0
93	MG	5	3982	1/1	0.92	0.50	-	43,43,43,43	0
92	OHX	5	3749	7/7	0.96	0.29	-	87,87,87,87	0
93	MG	1	3915	1/1	0.67	0.85	-	50,50,50,50	0
93	MG	5	4001	1/1	0.91	0.29	-	45,45,45,45	0
93	MG	1	3948	1/1	0.92	0.49	-	43,43,43,43	0
93	MG	2	2140	1/1	0.91	0.30	-	83,83,83,83	0
93	MG	5	4162	1/1	0.90	0.35	-	45,45,45,45	0
93	MG	6	2136	1/1	-0.02	0.45	-	75,75,75,75	0
93	MG	5	3904	1/1	0.94	0.69	-	37,37,37,37	0
93	MG	1	3760	1/1	0.86	0.58	-	45,45,45,45	0
92	OHX	1	3505	7/7	0.98	0.14	-	64,64,64,64	0
92	OHX	6	1942	7/7	0.97	0.12	-	73,73,73,73	0
93	MG	1	3947	1/1	0.67	0.57	-	98,98,98,98	0
93	MG	1	3988	1/1	0.85	0.37	-	35,35,35,35	0
93	MG	1	3857	1/1	0.92	0.67	-	36,36,36,36	0
92	OHX	2	1933	7/7	0.98	0.10	-	91,91,91,91	0
93	MG	1	4115	1/1	0.93	0.34	-	34,34,34,34	0
93	MG	5	3966	1/1	0.91	0.26	-	55,55,55,55	0
92	OHX	5	3732	7/7	0.97	0.30	-	65,65,65,65	0
93	MG	1	3772	1/1	0.99	0.23	-	30,30,30,30	0
92	OHX	1	3556	7/7	0.98	0.21	-	81,81,81,81	0
93	MG	1	4008	1/1	0.87	0.15	-	51,51,51,51	0
93	MG	1	3856	1/1	0.94	0.27	-	32,32,32,32	0
92	OHX	5	3625	7/7	0.98	0.29	-	53,53,53,53	0
93	MG	5	3806	1/1	0.95	0.47	-	39,39,39,39	0
93	MG	5	3802	1/1	0.91	0.32	-	48,48,48,48	0
92	OHX	5	3717	7/7	0.96	0.25	-	84,84,84,84	0
93	MG	6	2081	1/1	0.96	0.22	-	70,70,70,70	0
92	OHX	6	2015	7/7	0.96	0.32	-	79,79,79,79	0
93	MG	6	2123	1/1	0.93	0.06	-	93,93,93,93	0
93	MG	1	4114	1/1	0.89	0.35	-	39,39,39,39	0
93	MG	d7	102	1/1	0.52	0.51	-	74,74,74,74	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
93	MG	1	3742	1/1	0.91	0.52	-	35,35,35,35	0
93	MG	5	3972	1/1	0.90	0.39	-	32,32,32,32	0
93	MG	5	4104	1/1	0.79	0.56	-	43,43,43,43	0
92	OHX	7	210	7/7	0.93	0.30	-	91,91,91,91	0
92	OHX	2	2042	7/7	0.94	0.21	-	126,126,126,126	0
93	MG	1	3780	1/1	0.92	0.51	-	37,37,37,37	0
93	MG	5	3761	1/1	0.93	0.21	-	42,42,42,42	0
93	MG	5	3900	1/1	0.82	0.48	-	39,39,39,39	0
92	OHX	5	3726	7/7	0.98	0.29	-	90,90,90,90	0
93	MG	1	3777	1/1	0.82	0.47	-	47,47,47,47	0
93	MG	1	4011	1/1	0.97	0.15	-	47,47,47,47	0
92	OHX	1	3672	7/7	0.97	0.15	-	60,60,60,60	0
92	OHX	C3	201	7/7	0.95	0.20	-	96,96,96,96	0
93	MG	1	3917	1/1	0.91	0.55	-	35,35,35,35	0
92	OHX	6	2050	7/7	0.96	0.41	-	68,68,68,68	0
93	MG	2	2084	1/1	0.76	0.62	-	88,88,88,88	0
93	MG	1	4118	1/1	0.62	0.30	-	43,43,43,43	0
92	OHX	1	3610	7/7	0.98	0.25	-	66,66,66,66	0
93	MG	5	3889	1/1	0.97	0.19	-	36,36,36,36	0
93	MG	1	4042	1/1	0.92	0.51	-	53,53,53,53	0
93	MG	1	4026	1/1	0.88	0.37	-	49,49,49,49	0
93	MG	5	4106	1/1	0.73	0.11	-	93,93,93,93	0
93	MG	5	3772	1/1	0.84	0.30	-	41,41,41,41	0
93	MG	1	3779	1/1	0.88	0.42	-	37,37,37,37	0
93	MG	1	3823	1/1	0.93	0.46	-	44,44,44,44	0
93	MG	5	4097	1/1	0.96	0.78	-	34,34,34,34	0
93	MG	1	3854	1/1	0.94	0.76	-	43,43,43,43	0
93	MG	1	3881	1/1	0.87	0.62	-	41,41,41,41	0
93	MG	5	3905	1/1	0.99	0.39	-	32,32,32,32	0
93	MG	1	3900	1/1	0.77	0.37	-	33,33,33,33	0
93	MG	7	215	1/1	0.92	0.42	-	36,36,36,36	0
93	MG	5	3860	1/1	0.96	0.40	-	39,39,39,39	0
92	OHX	5	3491	7/7	0.97	0.17	-	64,64,64,64	0
93	MG	1	3758	1/1	0.88	0.14	-	42,42,42,42	0
93	MG	7	213	1/1	0.89	0.73	-	33,33,33,33	0
92	OHX	6	2047	7/7	0.94	0.36	-	87,87,87,87	0
93	MG	5	4045	1/1	0.96	0.54	-	41,41,41,41	0
93	MG	5	3822	1/1	0.96	0.28	-	54,54,54,54	0
93	MG	6	2106	1/1	0.79	0.51	-	60,60,60,60	0
93	MG	1	4087	1/1	0.81	0.28	-	41,41,41,41	0
93	MG	6	2098	1/1	0.72	0.85	-	99,99,99,99	0
93	MG	5	3771	1/1	0.93	0.37	-	35,35,35,35	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
93	MG	4	231	1/1	0.84	0.26	-	72,72,72,72	0
93	MG	1	3798	1/1	0.88	0.23	-	51,51,51,51	0
93	MG	5	3794	1/1	0.81	0.50	-	39,39,39,39	0
92	OHX	5	3742	7/7	0.96	0.34	-	56,56,56,56	0
93	MG	1	4017	1/1	0.98	0.37	-	52,52,52,52	0
93	MG	6	2181	1/1	0.92	0.15	-	77,77,77,77	0
93	MG	1	3810	1/1	0.83	0.45	-	49,49,49,49	0
92	OHX	1	3410	7/7	1.00	0.09	-	39,39,39,39	0
92	OHX	2	2009	7/7	0.93	0.21	-	117,117,117,117	0
92	OHX	5	3413	7/7	1.00	0.11	-	33,33,33,33	0
93	MG	4	238	1/1	0.88	0.40	-	42,42,42,42	0
93	MG	5	4017	1/1	0.90	0.70	-	66,66,66,66	0
92	OHX	2	1991	7/7	0.98	0.32	-	96,96,96,96	0
93	MG	5	3948	1/1	0.71	0.34	-	61,61,61,61	0
93	MG	5	3921	1/1	0.91	0.50	-	34,34,34,34	0
92	OHX	5	3666	7/7	0.97	0.25	-	55,55,55,55	0
92	OHX	5	3637	7/7	0.96	0.25	-	63,63,63,63	0
93	MG	5	3992	1/1	0.95	0.14	-	50,50,50,50	0
93	MG	5	3939	1/1	0.89	0.37	-	43,43,43,43	0
92	OHX	6	1916	7/7	0.99	0.07	-	70,70,70,70	0
93	MG	1	3761	1/1	0.94	0.47	-	45,45,45,45	0
92	OHX	5	3581	7/7	0.98	0.36	-	55,55,55,55	0
93	MG	5	4157	1/1	0.72	0.41	-	50,50,50,50	0
92	OHX	1	3717	7/7	0.97	0.32	-	65,65,65,65	0
93	MG	5	3984	1/1	0.83	0.45	-	41,41,41,41	0
92	OHX	6	2005	7/7	0.97	0.20	-	79,79,79,79	0
93	MG	2	2052	1/1	0.91	0.84	-	69,69,69,69	0
93	MG	5	4020	1/1	0.87	0.27	-	38,38,38,38	0
93	MG	1	3762	1/1	0.97	0.46	-	46,46,46,46	0
93	MG	2	2057	1/1	0.86	0.42	-	73,73,73,73	0
93	MG	5	3879	1/1	0.93	0.41	-	37,37,37,37	0
92	OHX	1	3720	7/7	0.96	0.33	-	65,65,65,65	0
93	MG	1	3879	1/1	0.94	0.58	-	33,33,33,33	0
93	MG	5	3777	1/1	0.90	0.28	-	32,32,32,32	0
92	OHX	5	3719	7/7	0.95	0.22	-	102,102,102,102	0
93	MG	6	2142	1/1	0.90	0.78	-	48,48,48,48	0
93	MG	1	4007	1/1	0.83	0.47	-	61,61,61,61	0
92	OHX	2	2016	7/7	0.97	0.26	-	84,84,84,84	0
93	MG	1	3974	1/1	0.95	0.53	-	47,47,47,47	0
93	MG	1	4068	1/1	0.92	0.37	-	39,39,39,39	0
93	MG	5	4077	1/1	0.86	0.37	-	49,49,49,49	0
93	MG	1	4000	1/1	0.80	0.44	-	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
92	OHX	2	2017	7/7	0.95	0.27	-	88,88,88,88	0
93	MG	1	4009	1/1	0.84	0.49	-	34,34,34,34	0
93	MG	5	4158	1/1	0.96	0.27	-	72,72,72,72	0
93	MG	1	4023	1/1	0.90	0.25	-	34,34,34,34	0
93	MG	1	4066	1/1	0.97	0.52	-	44,44,44,44	0
93	MG	6	2156	1/1	0.78	0.46	-	68,68,68,68	0
93	MG	1	4059	1/1	0.85	0.32	-	38,38,38,38	0
93	MG	1	4025	1/1	0.74	0.46	-	49,49,49,49	0
93	MG	1	3880	1/1	0.97	0.34	-	41,41,41,41	0
93	MG	1	4063	1/1	0.75	0.33	-	105,105,105,105	0
93	MG	1	4116	1/1	0.93	0.25	-	63,63,63,63	0
93	MG	1	3769	1/1	0.98	0.76	-	36,36,36,36	0
92	OHX	1	3625	7/7	0.97	0.22	-	69,69,69,69	0
93	MG	1	4079	1/1	0.90	0.38	-	36,36,36,36	0
92	OHX	c5	201	7/7	0.94	0.24	-	99,99,99,99	0
93	MG	1	3884	1/1	0.89	0.73	-	42,42,42,42	0
93	MG	1	3887	1/1	0.93	0.63	-	38,38,38,38	0
92	OHX	1	3681	7/7	0.98	0.27	-	76,76,76,76	0
93	MG	2	2059	1/1	0.39	0.30	-	86,86,86,86	0
93	MG	1	3920	1/1	0.98	0.53	-	36,36,36,36	0
92	OHX	5	3583	7/7	0.98	0.16	-	71,71,71,71	0
93	MG	7	218	1/1	0.95	0.20	-	37,37,37,37	0
93	MG	5	3850	1/1	0.93	0.98	-	41,41,41,41	0
93	MG	1	4125	1/1	0.91	0.91	-	49,49,49,49	0
93	MG	5	3809	1/1	0.55	0.21	-	88,88,88,88	0
92	OHX	1	3682	7/7	0.96	0.24	-	84,84,84,84	0
93	MG	1	3979	1/1	0.90	0.61	-	43,43,43,43	0
93	MG	1	3996	1/1	0.90	0.49	-	47,47,47,47	0
93	MG	5	3839	1/1	0.90	0.48	-	34,34,34,34	0
93	MG	5	3788	1/1	0.93	0.21	-	33,33,33,33	0
92	OHX	6	1948	7/7	0.97	0.23	-	82,82,82,82	0
93	MG	6	2147	1/1	0.60	0.43	-	66,66,66,66	0
93	MG	S4	301	1/1	0.57	0.73	-	83,83,83,83	0
92	OHX	2	2036	7/7	0.96	0.38	-	112,112,112,112	0
92	OHX	5	3594	7/7	0.97	0.30	-	74,74,74,74	0
93	MG	6	2095	1/1	0.94	0.42	-	55,55,55,55	0
93	MG	6	2072	1/1	0.89	0.48	-	59,59,59,59	0
93	MG	6	2160	1/1	0.98	0.51	-	73,73,73,73	0
93	MG	2	2121	1/1	0.88	0.48	-	68,68,68,68	0
93	MG	L3	404	1/1	0.95	0.12	-	41,41,41,41	0
93	MG	5	3896	1/1	0.86	0.74	-	33,33,33,33	0
92	OHX	6	2031	7/7	0.93	0.36	-	106,106,106,106	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
93	MG	1	3942	1/1	0.93	0.46	-	42,42,42,42	0
92	OHX	5	3629	7/7	0.96	0.23	-	90,90,90,90	0
92	OHX	6	2041	7/7	0.98	0.28	-	79,79,79,79	0
93	MG	5	3910	1/1	0.86	0.59	-	44,44,44,44	0
92	OHX	6	1930	7/7	0.99	0.11	-	64,64,64,64	0
93	MG	p	103	1/1	0.93	0.70	-	40,40,40,40	0
93	MG	2	2128	1/1	0.79	0.37	-	89,89,89,89	0
93	MG	2	2114	1/1	0.75	0.70	-	77,77,77,77	0
93	MG	6	2108	1/1	0.84	0.45	-	63,63,63,63	0
93	MG	5	4052	1/1	0.95	0.90	-	24,24,24,24	0
93	MG	8	222	1/1	0.94	0.34	-	43,43,43,43	0
92	OHX	1	3519	7/7	0.99	0.19	-	46,46,46,46	0
93	MG	1	3842	1/1	0.98	0.36	-	33,33,33,33	0
93	MG	1	4016	1/1	0.92	0.89	-	49,49,49,49	0
93	MG	1	4041	1/1	0.90	0.27	-	49,49,49,49	0
92	OHX	2	2018	7/7	0.97	0.32	-	84,84,84,84	0
93	MG	2	2139	1/1	0.45	0.34	-	93,93,93,93	0
93	MG	2	2055	1/1	0.90	0.75	-	75,75,75,75	0
92	OHX	6	2038	7/7	0.95	0.22	-	105,105,105,105	0
93	MG	m6	202	1/1	0.91	0.71	-	29,29,29,29	0
92	OHX	5	3569	7/7	0.98	0.20	-	62,62,62,62	0
93	MG	1	4040	1/1	0.94	0.20	-	49,49,49,49	0
92	OHX	1	3664	7/7	0.94	0.37	-	73,73,73,73	0
93	MG	5	4090	1/1	0.96	0.20	-	42,42,42,42	0
93	MG	1	3958	1/1	0.92	0.25	-	39,39,39,39	0
92	OHX	2	1996	7/7	0.95	0.22	-	103,103,103,103	0
93	MG	o2	201	1/1	0.74	0.46	-	32,32,32,32	0
92	OHX	2	1968	7/7	0.97	0.32	-	86,86,86,86	0
93	MG	Q2	503	1/1	0.93	0.23	-	48,48,48,48	0
93	MG	5	4062	1/1	0.92	0.19	-	48,48,48,48	0
93	MG	1	3941	1/1	0.87	0.28	-	51,51,51,51	0
92	OHX	6	1974	7/7	0.97	0.24	-	106,106,106,106	0
93	MG	5	3767	1/1	0.95	0.36	-	46,46,46,46	0
93	MG	5	4039	1/1	0.84	0.36	-	39,39,39,39	0
93	MG	2	2054	1/1	0.80	0.39	-	81,81,81,81	0
93	MG	1	3765	1/1	0.58	0.69	-	42,42,42,42	0
93	MG	1	4037	1/1	0.84	0.22	-	56,56,56,56	0
93	MG	1	3888	1/1	0.83	0.42	-	35,35,35,35	0
92	OHX	6	1999	7/7	0.97	0.30	-	75,75,75,75	0
92	OHX	1	3617	7/7	0.97	0.10	-	131,131,131,131	0
93	MG	5	3781	1/1	0.95	0.54	-	33,33,33,33	0
92	OHX	5	3747	7/7	0.95	0.23	-	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
93	MG	5	4167	1/1	0.91	0.22	-	33,33,33,33	0
93	MG	7	226	1/1	0.94	0.11	-	46,46,46,46	0
93	MG	5	4139	1/1	0.63	0.31	-	39,39,39,39	0
93	MG	5	3877	1/1	0.97	0.37	-	34,34,34,34	0
92	OHX	1	3639	7/7	0.98	0.27	-	67,67,67,67	0
93	MG	5	3950	1/1	0.51	0.76	-	43,43,43,43	0
93	MG	8	220	1/1	0.88	0.69	-	46,46,46,46	0
93	MG	5	3783	1/1	0.95	0.18	-	37,37,37,37	0
92	OHX	6	1995	7/7	0.98	0.31	-	79,79,79,79	0
93	MG	1	4038	1/1	0.89	0.89	-	46,46,46,46	0
93	MG	5	4028	1/1	0.88	0.32	-	33,33,33,33	0
92	OHX	6	1961	7/7	0.97	0.29	-	75,75,75,75	0
93	MG	5	3958	1/1	0.90	0.39	-	33,33,33,33	0
93	MG	m6	204	1/1	0.97	0.85	-	35,35,35,35	0
93	MG	6	2124	1/1	0.76	0.17	-	89,89,89,89	0
93	MG	6	2073	1/1	0.31	0.46	-	91,91,91,91	0
93	MG	6	2135	1/1	0.94	0.40	-	64,64,64,64	0
93	MG	5	3758	1/1	0.89	0.45	-	42,42,42,42	0
93	MG	7	216	1/1	0.96	0.70	-	34,34,34,34	0
92	OHX	1	3705	7/7	0.97	0.37	-	49,49,49,49	0
93	MG	1	3806	1/1	0.90	0.43	-	52,52,52,52	0
92	OHX	2	1954	7/7	0.97	0.12	-	89,89,89,89	0
93	MG	5	4037	1/1	0.95	0.32	-	40,40,40,40	0
93	MG	6	2096	1/1	0.88	0.60	-	59,59,59,59	0
92	OHX	1	3709	7/7	0.98	0.28	-	60,60,60,60	0
93	MG	5	4176	1/1	0.89	0.50	-	30,30,30,30	0
93	MG	5	3949	1/1	0.88	0.25	-	40,40,40,40	0
93	MG	5	3922	1/1	0.94	0.67	-	44,44,44,44	0
93	MG	1	4103	1/1	0.78	0.41	-	39,39,39,39	0
93	MG	1	3794	1/1	0.81	0.36	-	39,39,39,39	0
93	MG	5	4141	1/1	0.97	0.17	-	43,43,43,43	0
93	MG	5	3970	1/1	0.93	0.26	-	40,40,40,40	0
92	OHX	6	2007	7/7	0.97	0.36	-	82,82,82,82	0
93	MG	1	4047	1/1	0.90	0.58	-	43,43,43,43	0
92	OHX	5	3680	7/7	0.97	0.31	-	67,67,67,67	0
92	OHX	5	3548	7/7	0.97	0.25	-	61,61,61,61	0
92	OHX	8	215	7/7	0.91	0.41	-	55,55,55,55	0
93	MG	2	2119	1/1	0.89	0.12	-	87,87,87,87	0
93	MG	6	2155	1/1	0.86	0.21	-	76,76,76,76	0
93	MG	3	215	1/1	0.88	0.13	-	59,59,59,59	0
93	MG	2	2124	1/1	0.87	0.19	-	87,87,87,87	0
93	MG	8	224	1/1	0.87	0.33	-	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
93	MG	5	3864	1/1	0.96	0.45	-	35,35,35,35	0
93	MG	6	2088	1/1	0.85	0.35	-	65,65,65,65	0
92	OHX	5	3686	7/7	0.96	0.29	-	73,73,73,73	0
93	MG	1	4090	1/1	0.97	0.51	-	31,31,31,31	0
92	OHX	5	3613	7/7	0.98	0.25	-	54,54,54,54	0
92	OHX	5	3703	7/7	0.97	0.23	-	52,52,52,52	0
92	OHX	5	3556	7/7	0.98	0.26	-	55,55,55,55	0
92	OHX	5	3559	7/7	0.98	0.24	-	59,59,59,59	0
93	MG	5	4114	1/1	0.82	0.70	-	62,62,62,62	0
92	OHX	4	207	7/7	0.99	0.14	-	55,55,55,55	0
92	OHX	5	3537	7/7	0.97	0.21	-	73,73,73,73	0
93	MG	5	3886	1/1	0.97	0.39	-	39,39,39,39	0
92	OHX	1	3615	7/7	0.97	0.26	-	77,77,77,77	0
92	OHX	1	3592	7/7	0.97	0.24	-	65,65,65,65	0
93	MG	5	4027	1/1	0.94	0.38	-	39,39,39,39	0
93	MG	1	4109	1/1	0.89	0.38	-	44,44,44,44	0
93	MG	5	4019	1/1	0.86	0.21	-	42,42,42,42	0
93	MG	5	4075	1/1	0.94	0.27	-	34,34,34,34	0
92	OHX	3	201	7/7	0.99	0.08	-	60,60,60,60	0
92	OHX	2	1906	7/7	0.97	0.12	-	89,89,89,89	0
92	OHX	6	2034	7/7	0.97	0.26	-	99,99,99,99	0
93	MG	6	2061	1/1	0.93	0.17	-	69,69,69,69	0
93	MG	5	3827	1/1	0.91	0.61	-	35,35,35,35	0
93	MG	5	3978	1/1	0.97	0.66	-	40,40,40,40	0
93	MG	2	2081	1/1	0.87	0.41	-	87,87,87,87	0
92	OHX	1	3477	7/7	0.98	0.15	-	59,59,59,59	0
92	OHX	2	1990	7/7	0.98	0.26	-	99,99,99,99	0
93	MG	5	3792	1/1	0.99	0.39	-	31,31,31,31	0
92	OHX	6	2016	7/7	0.93	0.32	-	95,95,95,95	0
93	MG	1	3985	1/1	0.71	0.83	-	42,42,42,42	0
93	MG	5	4092	1/1	0.97	0.18	-	37,37,37,37	0
93	MG	2	2072	1/1	0.82	0.33	-	83,83,83,83	0
93	MG	5	3988	1/1	0.83	0.39	-	60,60,60,60	0
93	MG	5	4164	1/1	0.90	0.21	-	39,39,39,39	0
93	MG	5	4107	1/1	0.97	0.29	-	34,34,34,34	0
93	MG	1	4105	1/1	0.98	0.43	-	54,54,54,54	0
92	OHX	1	3468	7/7	0.99	0.09	-	54,54,54,54	0
93	MG	7	212	1/1	0.81	0.51	-	46,46,46,46	0
92	OHX	2	1959	7/7	0.95	0.19	-	98,98,98,98	0
93	MG	1	3833	1/1	0.86	0.48	-	39,39,39,39	0
92	OHX	2	2019	7/7	0.97	0.37	-	91,91,91,91	0
92	OHX	5	3571	7/7	0.96	0.26	-	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
93	MG	5	3931	1/1	0.94	0.71	-	32,32,32,32	0
93	MG	1	3792	1/1	0.98	0.32	-	35,35,35,35	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.