



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 10:06 PM GMT

PDB ID : 4V63
Title : Structural basis for translation termination on the 70S ribosome.
Authors : Laurberg, M.; Asahara, H.; Korostelev, A.; Zhu, J.; Trakhanov, S.; Noller, H.F.
Deposited on : 2008-05-16
Resolution : 3.21 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.
We welcome your comments at validation@mail.wwpdb.org
A user guide is available at
<http://wwpdb.org/validation/2016/XrayValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467
Mogul : 1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20026688
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk26865

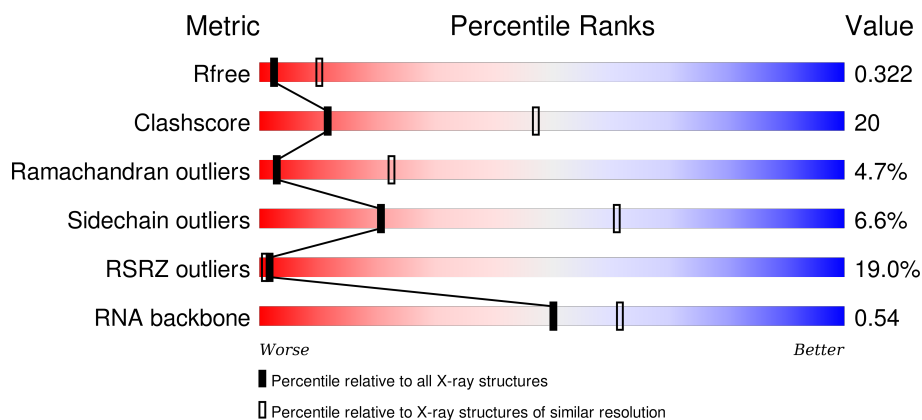
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.21 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	91344	1124 (3.24-3.16)
Clashscore	102246	1024 (3.22-3.18)
Ramachandran outliers	100387	1004 (3.22-3.18)
Sidechain outliers	100360	1003 (3.22-3.18)
RSRZ outliers	91569	1129 (3.24-3.16)
RNA backbone	2183	1079 (3.70-2.70)

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

Mol	Chain	Length	Quality of chain
1	AA	1525	<div> <div>5%</div> <div>41%</div> <div>48%</div> <div>9%</div> <div>..</div> </div>
1	CA	1525	<div> <div>9%</div> <div>42%</div> <div>47%</div> <div>9%</div> <div>..</div> </div>
2	AY	77	<div> <div>47%</div> <div>44%</div> <div>8%</div> <div>.</div> </div>
2	AZ	77	<div> <div>14%</div> <div>43%</div> <div>49%</div> <div>8%</div> </div>

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Mol	Chain	Length	Quality of chain
2	CY	77	
2	CZ	77	
3	AV	27	
3	CV	27	
4	AB	256	
4	CB	256	
5	AC	239	
5	CC	239	
6	AD	209	
6	CD	209	
7	AE	162	
7	CE	162	
8	AF	101	
8	CF	101	
9	AG	156	
9	CG	156	
10	AH	138	
10	CH	138	
11	AI	128	
11	CI	128	
12	AJ	105	
12	CJ	105	
13	AK	129	
13	CK	129	
14	AL	134	

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Mol	Chain	Length	Quality of chain
14	CL	134	
15	AM	126	
15	CM	126	
16	AN	61	
16	CN	61	
17	AO	89	
17	CO	89	
18	AP	88	
18	CP	88	
19	AQ	105	
19	CQ	105	
20	AR	88	
20	CR	88	
21	AS	93	
21	CS	93	
22	AT	106	
22	CT	106	
23	AU	27	
23	CU	27	
24	AX	354	
24	CX	354	
25	BA	2894	
25	DA	2894	
26	BB	124	
26	DB	124	

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Mol	Chain	Length	Quality of chain
27	BD	276	
27	DD	276	
28	BE	206	
28	DE	206	
29	BF	210	
29	DF	210	
30	BG	182	
30	DG	182	
31	BH	180	
31	DH	180	
32	BI	148	
32	DI	148	
33	BJ	173	
33	DJ	173	
34	BN	163	
34	DN	163	
35	BO	122	
35	DO	122	
36	BP	150	
36	DP	150	
37	BQ	141	
37	DQ	141	
38	BR	118	
38	DR	118	
39	BS	112	

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Mol	Chain	Length	Quality of chain
39	DS	112	
40	BT	146	
40	DT	146	
41	BU	118	
41	DU	118	
42	BV	101	
42	DV	101	
43	BW	113	
43	DW	113	
44	BX	96	
44	DX	96	
45	BY	110	
45	DY	110	
46	BZ	206	
46	DZ	206	
47	B0	85	
47	D0	85	
48	B1	98	
48	D1	98	
49	B2	72	
49	D2	72	
50	B3	60	
50	D3	60	
51	B4	97	
51	D4	97	

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Mol	Chain	Length	Quality of chain
52	B5	60	
52	D5	60	
53	B6	54	
53	D6	54	
54	B7	49	
54	D7	49	
55	B8	65	
55	D8	65	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
56	MG	AA	1645	-	-	-	X
56	MG	AA	1756	-	-	-	X
56	MG	AA	1802	-	-	-	X
56	MG	AA	1834	-	-	-	X
56	MG	AA	1844	-	-	-	X
56	MG	AA	1861	-	-	-	X
56	MG	AD	304	-	-	-	X
56	MG	AY	105	-	-	-	X
56	MG	BA	3011	-	-	-	X
56	MG	BA	3169	-	-	-	X
56	MG	BA	3380	-	-	-	X
56	MG	BA	3481	-	-	-	X
56	MG	BA	3597	-	-	-	X
56	MG	BA	3708	-	-	-	X
56	MG	BA	3762	-	-	-	X
56	MG	BA	3775	-	-	-	X
56	MG	BA	3796	-	-	-	X
56	MG	BR	202	-	-	-	X
56	MG	CA	1615	-	-	-	X
56	MG	CA	1624	-	-	-	X
56	MG	CA	1800	-	-	-	X
56	MG	CA	1930	-	-	-	X
56	MG	CA	1941	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
56	MG	CA	1963	-	-	-	X
56	MG	CA	1982	-	-	-	X
56	MG	CA	1983	-	-	-	X
56	MG	CA	2008	-	-	-	X
56	MG	CX	406	-	-	-	X
56	MG	CY	113	-	-	-	X
56	MG	DA	3254	-	-	-	X
56	MG	DA	3256	-	-	-	X
56	MG	DA	3283	-	-	-	X
56	MG	DA	3417	-	-	-	X
56	MG	DA	3430	-	-	-	X
56	MG	DA	3637	-	-	-	X
56	MG	DA	3661	-	-	-	X
56	MG	DA	3673	-	-	-	X
56	MG	DA	3679	-	-	-	X
56	MG	DA	3688	-	-	-	X
56	MG	DA	3721	-	-	-	X
56	MG	DA	3726	-	-	-	X
56	MG	DA	3729	-	-	-	X

2 Entry composition

There are 57 unique types of molecules in this entry. The entry contains 299961 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a RNA chain called 16S RRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	AA	1504	Total	C	N	O	P	0	0	0
			32332	14391	5994	10444	1503			
1	CA	1504	Total	C	N	O	P	0	0	0
			32332	14391	5994	10444	1503			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AA	466	G	C	CONFLICT	GB 155076
CA	466	G	C	CONFLICT	GB 155076

- Molecule 2 is a RNA chain called P and E-site tRNA(fMet).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	AZ	77	Total	C	N	O	P	0	0	0
			1640	732	297	535	76			
2	AY	77	Total	C	N	O	P	0	0	0
			1640	732	297	535	76			
2	CZ	77	Total	C	N	O	P	0	0	0
			1640	732	297	535	76			
2	CY	77	Total	C	N	O	P	0	0	0
			1640	732	297	535	76			

- Molecule 3 is a RNA chain called mRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	AV	12	Total	C	N	O	P	0	0	0
			258	118	54	75	11			
3	CV	12	Total	C	N	O	P	0	0	0
			258	118	54	75	11			

- Molecule 4 is a protein called 30S ribosomal protein S2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	AB	234	Total	C	N	O	S	0	0	0
			1900	1213	341	341	5			
4	CB	234	Total	C	N	O	S	0	0	0
			1900	1213	341	341	5			

- Molecule 5 is a protein called 30S ribosomal protein S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	AC	206	Total	C	N	O	S	0	0	0
			1612	1016	314	281	1			
5	CC	206	Total	C	N	O	S	0	0	0
			1612	1016	314	281	1			

- Molecule 6 is a protein called 30S ribosomal protein S4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	AD	208	Total	C	N	O	S	0	0	0
			1703	1066	339	291	7			
6	CD	208	Total	C	N	O	S	0	0	0
			1703	1066	339	291	7			

- Molecule 7 is a protein called 30S ribosomal protein S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	AE	151	Total	C	N	O	S	0	0	0
			1155	729	218	204	4			
7	CE	151	Total	C	N	O	S	0	0	0
			1155	729	218	204	4			

- Molecule 8 is a protein called 30S ribosomal protein S6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	AF	101	Total	C	N	O	S	0	0	0
			843	531	155	154	3			
8	CF	101	Total	C	N	O	S	0	0	0
			843	531	155	154	3			

- Molecule 9 is a protein called 30S ribosomal protein S7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	AG	155	Total	C	N	O	S	0	0	0
			1257	781	252	218	6			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	CG	155	Total	C	N	O	S	0	0	0
			1257	781	252	218	6			

- Molecule 10 is a protein called 30S ribosomal protein S8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	AH	138	Total	C	N	O	S	0	0	0
			1116	705	215	193	3			
10	CH	138	Total	C	N	O	S	0	0	0
			1116	705	215	193	3			

- Molecule 11 is a protein called 30S ribosomal protein S9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	AI	127	Total	C	N	O	S	0	0	0
			1011	639	198	174				
11	CI	127	Total	C	N	O	S	0	0	0
			1011	639	198	174				

- Molecule 12 is a protein called 30S ribosomal protein S10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	AJ	98	Total	C	N	O	S	0	0	0
			794	499	156	138	1			
12	CJ	98	Total	C	N	O	S	0	0	0
			794	499	156	138	1			

- Molecule 13 is a protein called 30S ribosomal protein S11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	AK	119	Total	C	N	O	S	0	0	0
			885	549	168	165	3			
13	CK	119	Total	C	N	O	S	0	0	0
			885	549	168	165	3			

- Molecule 14 is a protein called 30S ribosomal protein S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	AL	124	Total	C	N	O	S	0	0	0
			970	611	195	163	1			
14	CL	124	Total	C	N	O	S	0	0	0
			970	611	195	163	1			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AL	2	ALA	-	INSERTION	UNP P61941
AL	3	LEU	-	INSERTION	UNP P61941
CL	2	ALA	-	INSERTION	UNP P61941
CL	3	LEU	-	INSERTION	UNP P61941

- Molecule 15 is a protein called 30S ribosomal protein S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	AM	117	Total	C	N	O	S	0	0	0
			933	577	192	162	2			
15	CM	117	Total	C	N	O	S	0	0	0
			933	577	192	162	2			

- Molecule 16 is a protein called 30S ribosomal protein S14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	AN	60	Total	C	N	O	S	0	0	0
			492	312	104	72	4			
16	CN	60	Total	C	N	O	S	0	0	0
			492	312	104	72	4			

- Molecule 17 is a protein called 30S ribosomal protein S15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	AO	88	Total	C	N	O	S	0	0	0
			734	459	147	126	2			
17	CO	88	Total	C	N	O	S	0	0	0
			734	459	147	126	2			

- Molecule 18 is a protein called 30S ribosomal protein S16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
18	AP	83	Total	C	N	O	S	0	0	0
			700	443	139	117	1			
18	CP	83	Total	C	N	O	S	0	0	0
			700	443	139	117	1			

- Molecule 19 is a protein called 30S ribosomal protein S17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	AQ	99	Total	C	N	O	S	0	0	0
			823	528	152	141	2			
19	CQ	99	Total	C	N	O	S	0	0	0
			823	528	152	141	2			

- Molecule 20 is a protein called 30S ribosomal protein S18.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	AR	70	Total	C	N	O		0	0	0
			574	367	112	95				
20	CR	70	Total	C	N	O		0	0	0
			574	367	112	95				

- Molecule 21 is a protein called 30S ribosomal protein S19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
21	AS	78	Total	C	N	O	S	0	0	0
			629	403	114	110	2			
21	CS	78	Total	C	N	O	S	0	0	0
			629	403	114	110	2			

- Molecule 22 is a protein called 30S ribosomal protein S20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	AT	99	Total	C	N	O	S	0	0	0
			762	469	162	129	2			
22	CT	99	Total	C	N	O	S	0	0	0
			762	469	162	129	2			

- Molecule 23 is a protein called 30S ribosomal protein Thx.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	AU	24	Total	C	N	O		0	0	0
			208	128	50	30				
23	CU	24	Total	C	N	O		0	0	0
			208	128	50	30				

- Molecule 24 is a protein called Peptide chain release factor 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	AX	354	Total	C	N	O	S	0	0	0
			2813	1743	509	549	12			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	CX	354	Total	C	N	O	S	0	0	0
			2813	1743	509	549	12			

- Molecule 25 is a RNA chain called 23S rRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	BA	2879	Total	C	N	O	P	0	0	0
			61997	27594	11582	19943	2878			
25	DA	2879	Total	C	N	O	P	0	0	0
			61997	27594	11582	19943	2878			

- Molecule 26 is a RNA chain called 5S rRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	BB	119	Total	C	N	O	P	0	0	0
			2551	1136	471	826	118			
26	DB	119	Total	C	N	O	P	0	0	0
			2551	1136	471	826	118			

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
BB	-1	A	-	INSERTION	GB 48271
BB	120	U	-	INSERTION	GB 48271
BB	121	U	-	INSERTION	GB 48271
DB	-1	A	-	INSERTION	GB 48271
DB	120	U	-	INSERTION	GB 48271
DB	121	U	-	INSERTION	GB 48271

- Molecule 27 is a protein called 50S ribosomal protein L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	BD	271	Total	C	N	O	S	0	0	0
			2104	1329	416	356	3			
27	DD	271	Total	C	N	O	S	0	0	0
			2104	1329	416	356	3			

- Molecule 28 is a protein called 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	BE	204	Total	C	N	O	S	0	0	0
			1563	988	299	270	6			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	DE	204	Total	C	N	O	S	0	0	0
			1563	988	299	270	6			

- Molecule 29 is a protein called 50S ribosomal protein L4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	BF	202	Total	C	N	O	S	0	0	0
			1586	1011	297	275	3			
29	DF	202	Total	C	N	O	S	0	0	0
			1586	1011	297	275	3			

There are 10 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
BF	1	MET	-	INSERTION	UNP Q72I05
BF	2	LYS	-	INSERTION	UNP Q72I05
BF	3	GLU	-	INSERTION	UNP Q72I05
BF	4	VAL	-	INSERTION	UNP Q72I05
BF	5	ALA	-	INSERTION	UNP Q72I05
DF	1	MET	-	INSERTION	UNP Q72I05
DF	2	LYS	-	INSERTION	UNP Q72I05
DF	3	GLU	-	INSERTION	UNP Q72I05
DF	4	VAL	-	INSERTION	UNP Q72I05
DF	5	ALA	-	INSERTION	UNP Q72I05

- Molecule 30 is a protein called 50S ribosomal protein L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	BG	181	Total	C	N	O	S	0	0	0
			1475	943	268	260	4			
30	DG	181	Total	C	N	O	S	0	0	0
			1475	943	268	260	4			

- Molecule 31 is a protein called 50S ribosomal protein L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	BH	159	Total	C	N	O	S	0	0	0
			1222	773	228	220	1			
31	DH	159	Total	C	N	O	S	0	0	0
			1222	773	228	220	1			

- Molecule 32 is a protein called 50S ribosomal protein L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	BI	145	Total	C	N	O	S	0	0	0
			1132	724	200	207	1			
32	DI	145	Total	C	N	O	S	0	0	0
			1132	724	200	207	1			

- Molecule 33 is a protein called 50S ribosomal protein L10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	BJ	32	Total	C	N	O	S	0	0	0
			253	157	49	47				
33	DJ	32	Total	C	N	O	S	0	0	0
			253	157	49	47				

- Molecule 34 is a protein called 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	BN	137	Total	C	N	O	S	0	0	0
			1096	707	205	181	3			
34	DN	137	Total	C	N	O	S	0	0	0
			1096	707	205	181	3			

There are 46 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
BN	2	VAL	-	INSERTION	UNP Q72IN1
BN	3	LYS	-	INSERTION	UNP Q72IN1
BN	4	SER	-	INSERTION	UNP Q72IN1
BN	5	SER	-	INSERTION	UNP Q72IN1
BN	6	LEU	-	INSERTION	UNP Q72IN1
BN	7	ALA	-	INSERTION	UNP Q72IN1
BN	8	PHE	-	INSERTION	UNP Q72IN1
BN	9	LEU	-	INSERTION	UNP Q72IN1
BN	10	ARG	-	INSERTION	UNP Q72IN1
BN	11	GLY	-	INSERTION	UNP Q72IN1
BN	12	PRO	-	INSERTION	UNP Q72IN1
BN	13	PRO	-	INSERTION	UNP Q72IN1
BN	14	ILE	-	INSERTION	UNP Q72IN1
BN	15	PRO	-	INSERTION	UNP Q72IN1
BN	16	ARG	-	INSERTION	UNP Q72IN1
BN	17	GLN	-	INSERTION	UNP Q72IN1
BN	18	GLU	-	INSERTION	UNP Q72IN1
BN	19	GLN	-	INSERTION	UNP Q72IN1
BN	20	ARG	-	INSERTION	UNP Q72IN1

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Chain	Residue	Modelled	Actual	Comment	Reference
BN	21	ARG	-	INSERTION	UNP Q72IN1
BN	22	ALA	-	INSERTION	UNP Q72IN1
BN	23	LEU	-	INSERTION	UNP Q72IN1
BN	24	VAL	-	INSERTION	UNP Q72IN1
DN	2	VAL	-	INSERTION	UNP Q72IN1
DN	3	LYS	-	INSERTION	UNP Q72IN1
DN	4	SER	-	INSERTION	UNP Q72IN1
DN	5	SER	-	INSERTION	UNP Q72IN1
DN	6	LEU	-	INSERTION	UNP Q72IN1
DN	7	ALA	-	INSERTION	UNP Q72IN1
DN	8	PHE	-	INSERTION	UNP Q72IN1
DN	9	LEU	-	INSERTION	UNP Q72IN1
DN	10	ARG	-	INSERTION	UNP Q72IN1
DN	11	GLY	-	INSERTION	UNP Q72IN1
DN	12	PRO	-	INSERTION	UNP Q72IN1
DN	13	PRO	-	INSERTION	UNP Q72IN1
DN	14	ILE	-	INSERTION	UNP Q72IN1
DN	15	PRO	-	INSERTION	UNP Q72IN1
DN	16	ARG	-	INSERTION	UNP Q72IN1
DN	17	GLN	-	INSERTION	UNP Q72IN1
DN	18	GLU	-	INSERTION	UNP Q72IN1
DN	19	GLN	-	INSERTION	UNP Q72IN1
DN	20	ARG	-	INSERTION	UNP Q72IN1
DN	21	ARG	-	INSERTION	UNP Q72IN1
DN	22	ALA	-	INSERTION	UNP Q72IN1
DN	23	LEU	-	INSERTION	UNP Q72IN1
DN	24	VAL	-	INSERTION	UNP Q72IN1

- Molecule 35 is a protein called 50S ribosomal protein L14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	BO	122	Total	C	N	O	S	0	0	0
			932	587	171	170	4			
35	DO	122	Total	C	N	O	S	0	0	0
			932	587	171	170	4			

- Molecule 36 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	BP	146	Total	C	N	O	S	0	0	0
			1114	692	227	193	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	DP	146	Total	C	N	O	S	0	0	0
			1114	692	227	193	2			

- Molecule 37 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	BQ	136	Total	C	N	O	S	0	0	0
			1079	688	204	182	5			
37	DQ	136	Total	C	N	O	S	0	0	0
			1079	688	204	182	5			

- Molecule 38 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	BR	117	Total	C	N	O		0	0	0
			960	599	202	159				
38	DR	117	Total	C	N	O		0	0	0
			960	599	202	159				

- Molecule 39 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	BS	98	Total	C	N	O		0	0	0
			770	486	154	130				
39	DS	98	Total	C	N	O		0	0	0
			770	486	154	130				

- Molecule 40 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
40	BT	137	Total	C	N	O	S	0	0	0
			1143	713	234	195	1			
40	DT	137	Total	C	N	O	S	0	0	0
			1143	713	234	195	1			

- Molecule 41 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	BU	117	Total	C	N	O	S	0	0	0
			964	610	202	151	1			
41	DU	117	Total	C	N	O	S	0	0	0
			964	610	202	151	1			

- Molecule 42 is a protein called 50S ribosomal protein L21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	BV	101	Total	C	N	O	S	0	0	0
			779	501	142	135	1			
42	DV	101	Total	C	N	O	S	0	0	0
			779	501	142	135	1			

- Molecule 43 is a protein called 50S ribosomal protein L22.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	BW	112	Total	C	N	O	S	0	0	0
			890	560	175	153	2			
43	DW	112	Total	C	N	O	S	0	0	0
			890	560	175	153	2			

- Molecule 44 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
44	BX	92	Total	C	N	O	0	0	0
			725	471	131	123			
44	DX	92	Total	C	N	O	0	0	0
			725	471	131	123			

- Molecule 45 is a protein called 50S ribosomal protein L24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	BY	100	Total	C	N	O	S	0	0	0
			775	500	148	123	4			
45	DY	100	Total	C	N	O	S	0	0	0
			775	500	148	123	4			

- Molecule 46 is a protein called 50S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	BZ	188	Total	C	N	O	S	0	0	0
			1491	950	265	274	2			
46	DZ	188	Total	C	N	O	S	0	0	0
			1491	950	265	274	2			

- Molecule 47 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	B0	76	Total	C	N	O	S	0	0	0
			605	376	126	102	1			
47	D0	76	Total	C	N	O	S	0	0	0
			605	376	126	102	1			

- Molecule 48 is a protein called 50S ribosomal protein L28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	B1	88	Total	C	N	O		0	0	0
			694	435	141	118				
48	D1	88	Total	C	N	O		0	0	0
			694	435	141	118				

- Molecule 49 is a protein called 50S ribosomal protein L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	B2	72	Total	C	N	O	S	0	0	0
			605	375	122	106	2			
49	D2	72	Total	C	N	O	S	0	0	0
			605	375	122	106	2			

- Molecule 50 is a protein called 50S ribosomal protein L30.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	B3	59	Total	C	N	O	S	0	0	0
			467	298	90	78	1			
50	D3	59	Total	C	N	O	S	0	0	0
			467	298	90	78	1			

- Molecule 51 is a protein called 50S ribosomal protein L31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	B4	30	Total	C	N	O	S	0	0	0
			225	142	36	43	4			
51	D4	30	Total	C	N	O	S	0	0	0
			225	142	36	43	4			

There are 52 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B4	2	PRO	-	INSERTION	UNP Q72JR0
B4	3	LEU	-	INSERTION	UNP Q72JR0
B4	4	GLY	-	INSERTION	UNP Q72JR0

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Chain	Residue	Modelled	Actual	Comment	Reference
B4	5	VAL	-	INSERTION	UNP Q72JR0
B4	6	HIS	-	INSERTION	UNP Q72JR0
B4	7	PRO	-	INSERTION	UNP Q72JR0
B4	8	LEU	-	INSERTION	UNP Q72JR0
B4	9	TYR	-	INSERTION	UNP Q72JR0
B4	10	THR	-	INSERTION	UNP Q72JR0
B4	11	LYS	-	INSERTION	UNP Q72JR0
B4	12	ARG	-	INSERTION	UNP Q72JR0
B4	13	TRP	-	INSERTION	UNP Q72JR0
B4	14	LEU	-	INSERTION	UNP Q72JR0
B4	15	ALA	-	INSERTION	UNP Q72JR0
B4	16	HIS	-	INSERTION	UNP Q72JR0
B4	17	GLY	-	INSERTION	UNP Q72JR0
B4	18	GLN	-	INSERTION	UNP Q72JR0
B4	19	ASP	-	INSERTION	UNP Q72JR0
B4	20	ARG	-	INSERTION	UNP Q72JR0
B4	21	ALA	-	INSERTION	UNP Q72JR0
B4	22	LYS	-	INSERTION	UNP Q72JR0
B4	23	LYS	-	INSERTION	UNP Q72JR0
B4	24	GLU	-	INSERTION	UNP Q72JR0
B4	25	ALA	-	INSERTION	UNP Q72JR0
B4	26	ASN	-	INSERTION	UNP Q72JR0
B4	27	VAL	-	INSERTION	UNP Q72JR0
D4	2	PRO	-	INSERTION	UNP Q72JR0
D4	3	LEU	-	INSERTION	UNP Q72JR0
D4	4	GLY	-	INSERTION	UNP Q72JR0
D4	5	VAL	-	INSERTION	UNP Q72JR0
D4	6	HIS	-	INSERTION	UNP Q72JR0
D4	7	PRO	-	INSERTION	UNP Q72JR0
D4	8	LEU	-	INSERTION	UNP Q72JR0
D4	9	TYR	-	INSERTION	UNP Q72JR0
D4	10	THR	-	INSERTION	UNP Q72JR0
D4	11	LYS	-	INSERTION	UNP Q72JR0
D4	12	ARG	-	INSERTION	UNP Q72JR0
D4	13	TRP	-	INSERTION	UNP Q72JR0
D4	14	LEU	-	INSERTION	UNP Q72JR0
D4	15	ALA	-	INSERTION	UNP Q72JR0
D4	16	HIS	-	INSERTION	UNP Q72JR0
D4	17	GLY	-	INSERTION	UNP Q72JR0
D4	18	GLN	-	INSERTION	UNP Q72JR0
D4	19	ASP	-	INSERTION	UNP Q72JR0
D4	20	ARG	-	INSERTION	UNP Q72JR0

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Chain	Residue	Modelled	Actual	Comment	Reference
D4	21	ALA	-	INSERTION	UNP Q72JR0
D4	22	LYS	-	INSERTION	UNP Q72JR0
D4	23	LYS	-	INSERTION	UNP Q72JR0
D4	24	GLU	-	INSERTION	UNP Q72JR0
D4	25	ALA	-	INSERTION	UNP Q72JR0
D4	26	ASN	-	INSERTION	UNP Q72JR0
D4	27	VAL	-	INSERTION	UNP Q72JR0

- Molecule 52 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	B5	52	Total	C	N	O	S	0	0	0
			404	255	79	65	5			
52	D5	52	Total	C	N	O	S	0	0	0
			404	255	79	65	5			

- Molecule 53 is a protein called 50S ribosomal protein L33.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	B6	44	Total	C	N	O	S	0	0	0
			380	235	77	64	4			
53	D6	44	Total	C	N	O	S	0	0	0
			380	235	77	64	4			

- Molecule 54 is a protein called 50S ribosomal protein L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
54	B7	48	Total	C	N	O	S	0	0	0
			418	257	104	55	2			
54	D7	48	Total	C	N	O	S	0	0	0
			418	257	104	55	2			

- Molecule 55 is a protein called 50S ribosomal protein L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
55	B8	63	Total	C	N	O	S	0	0	0
			507	326	101	78	2			
55	D8	63	Total	C	N	O	S	0	0	0
			507	326	101	78	2			

- Molecule 56 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	AP	1	Total 1 Mg 1	0	0
56	CZ	19	Total 19 Mg 19	0	0
56	BA	806	Total 806 Mg 806	0	0
56	AK	1	Total 1 Mg 1	0	0
56	DQ	1	Total 1 Mg 1	0	0
56	AB	2	Total 2 Mg 2	0	0
56	DF	1	Total 1 Mg 1	0	0
56	CV	4	Total 4 Mg 4	0	0
56	CI	2	Total 2 Mg 2	0	0
56	BE	1	Total 1 Mg 1	0	0
56	D8	1	Total 1 Mg 1	0	0
56	B1	2	Total 2 Mg 2	0	0
56	CD	2	Total 2 Mg 2	0	0
56	BP	1	Total 1 Mg 1	0	0
56	AX	6	Total 6 Mg 6	0	0
56	DN	1	Total 1 Mg 1	0	0
56	BI	3	Total 3 Mg 3	0	0
56	CY	21	Total 21 Mg 21	0	0
56	CA	414	Total 414 Mg 414	0	0
56	B5	1	Total 1 Mg 1	0	0
56	BB	26	Total 26 Mg 26	0	0
56	AJ	1	Total 1 Mg 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	BT	2	Total 2	Mg 2	0	0
56	DO	2	Total 2	Mg 2	0	0
56	AE	1	Total 1	Mg 1	0	0
56	DG	1	Total 1	Mg 1	0	0
56	CF	1	Total 1	Mg 1	0	0
56	DT	1	Total 1	Mg 1	0	0
56	D3	1	Total 1	Mg 1	0	0
56	BF	5	Total 5	Mg 5	0	0
56	AV	1	Total 1	Mg 1	0	0
56	DR	1	Total 1	Mg 1	0	0
56	B2	3	Total 3	Mg 3	0	0
56	AA	310	Total 310	Mg 310	0	0
56	BQ	3	Total 3	Mg 3	0	0
56	D7	2	Total 2	Mg 2	0	0
56	BJ	1	Total 1	Mg 1	0	0
56	CX	9	Total 9	Mg 9	0	0
56	DV	1	Total 1	Mg 1	0	0
56	CH	1	Total 1	Mg 1	0	0
56	DI	2	Total 2	Mg 2	0	0
56	AM	1	Total 1	Mg 1	0	0
56	BU	1	Total 1	Mg 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	CC	7	Total 7	Mg 7	0	0
56	AD	8	Total 8	Mg 8	0	0
56	BN	2	Total 2	Mg 2	0	0
56	DH	4	Total 4	Mg 4	0	0
56	CG	1	Total 1	Mg 1	0	0
56	BG	3	Total 3	Mg 3	0	0
56	AI	2	Total 2	Mg 2	0	0
56	BY	1	Total 1	Mg 1	0	0
56	CJ	1	Total 1	Mg 1	0	0
56	BR	3	Total 3	Mg 3	0	0
56	AZ	6	Total 6	Mg 6	0	0
56	D4	3	Total 3	Mg 3	0	0
56	DA	758	Total 758	Mg 758	0	0
56	CE	1	Total 1	Mg 1	0	0
56	DW	3	Total 3	Mg 3	0	0
56	B7	3	Total 3	Mg 3	0	0
56	D2	2	Total 2	Mg 2	0	0
56	AL	2	Total 2	Mg 2	0	0
56	BV	1	Total 1	Mg 1	0	0
56	AG	1	Total 1	Mg 1	0	0
56	BO	3	Total 3	Mg 3	0	0

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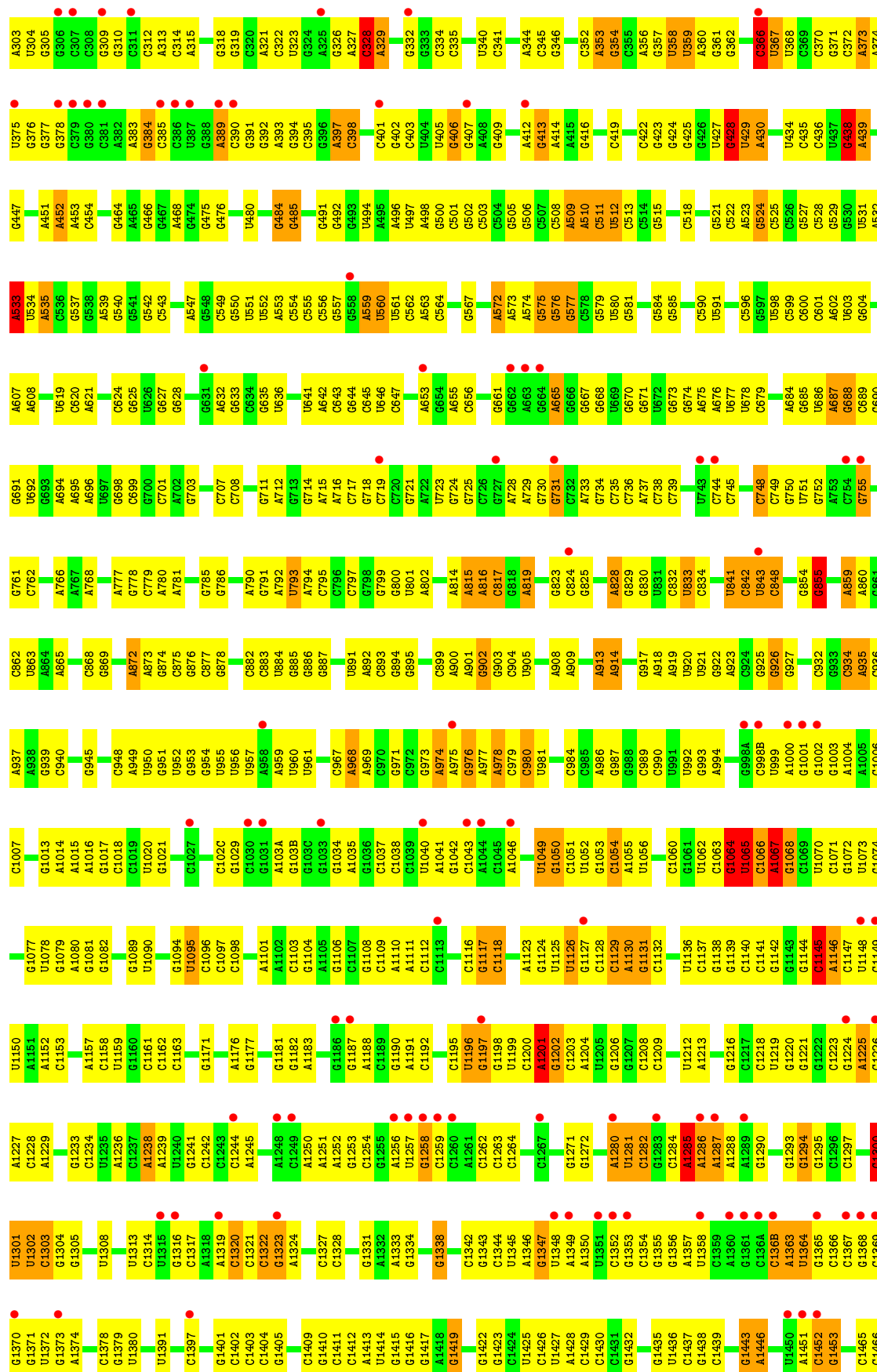
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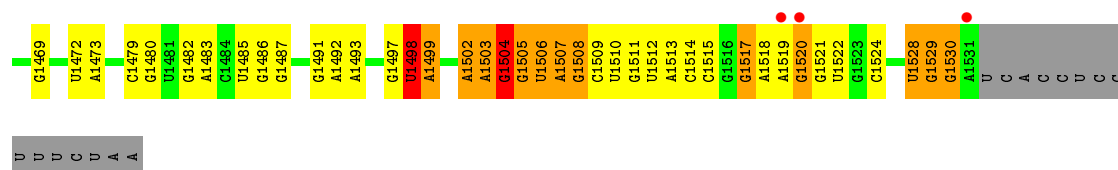
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
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56	DX	1	Total 1	Mg 1	0	0
56	AH	2	Total 2	Mg 2	0	0
56	BZ	1	Total 1	Mg 1	0	0
56	CO	2	Total 2	Mg 2	0	0
56	DZ	4	Total 4	Mg 4	0	0
56	AC	6	Total 6	Mg 6	0	0
56	DB	28	Total 28	Mg 28	0	0
56	CB	2	Total 2	Mg 2	0	0
56	D5	1	Total 1	Mg 1	0	0
56	BD	2	Total 2	Mg 2	0	0
56	CL	1	Total 1	Mg 1	0	0
56	DP	6	Total 6	Mg 6	0	0
56	CP	1	Total 1	Mg 1	0	0
56	AO	3	Total 3	Mg 3	0	0
56	BW	2	Total 2	Mg 2	0	0
56	AY	25	Total 25	Mg 25	0	0
56	DD	1	Total 1	Mg 1	0	0
56	CK	2	Total 2	Mg 2	0	0
56	AF	2	Total 2	Mg 2	0	0
56	BH	2	Total 2	Mg 2	0	0

- Molecule 57 is ZINC ION (three-letter code: ZN) (formula: Zn).

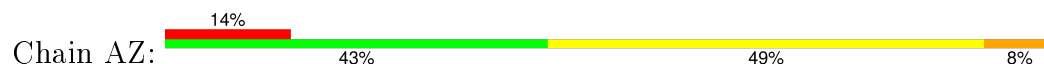
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
57	CN	1	Total 1	Zn 1	0	0
57	AD	1	Total 1	Zn 1	0	0
57	CD	1	Total 1	Zn 1	0	0
57	AN	1	Total 1	Zn 1	0	0







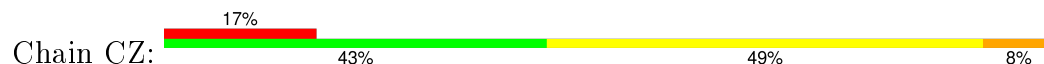
- Molecule 2: P and E-site tRNA(fMet)



- Molecule 2: P and E-site tRNA(fMet)



- Molecule 2: P and E-site tRNA(fMet)



- Molecule 2: P and E-site tRNA(fMet)



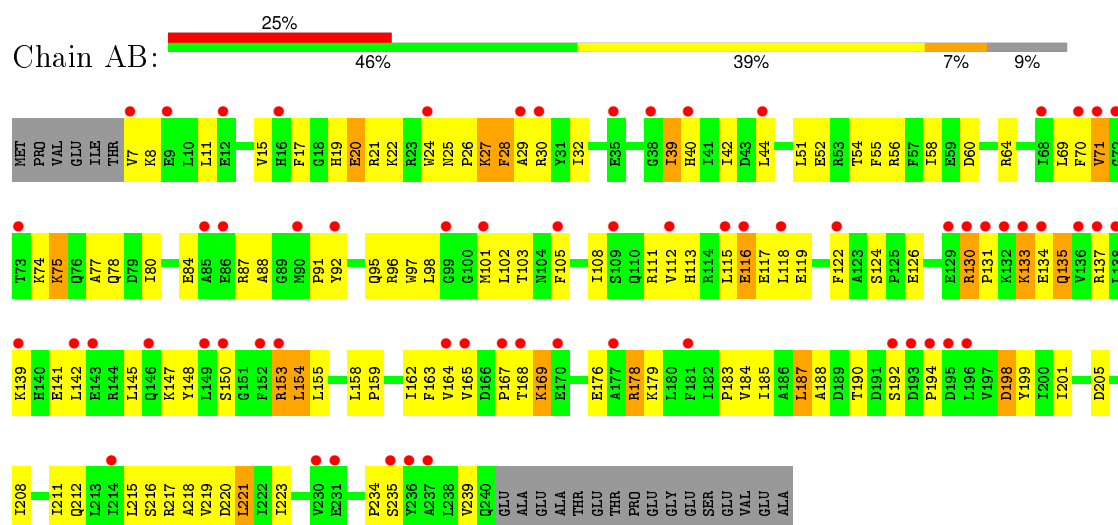
- Molecule 3: mRNA



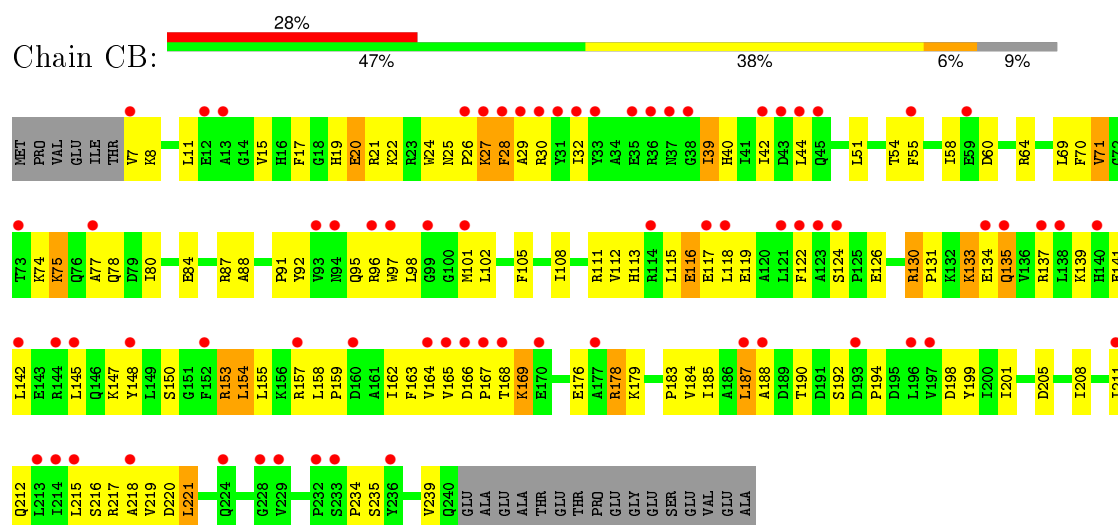
- Molecule 3: mRNA



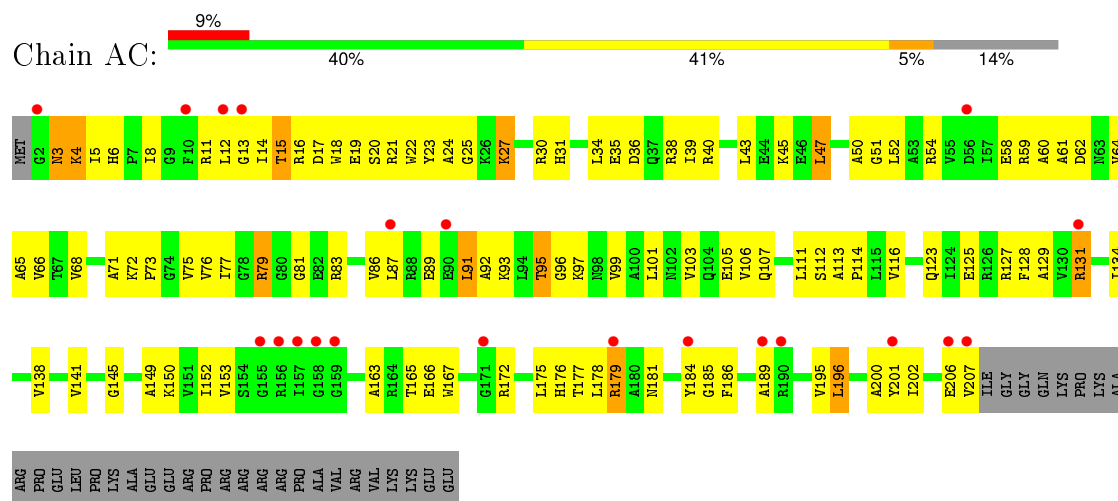
- Molecule 4: 30S ribosomal protein S2



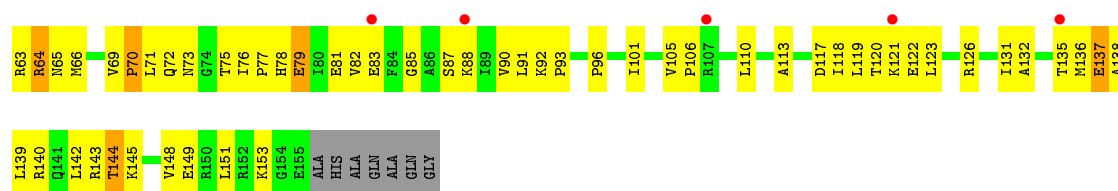
• Molecule 4: 30S ribosomal protein S2



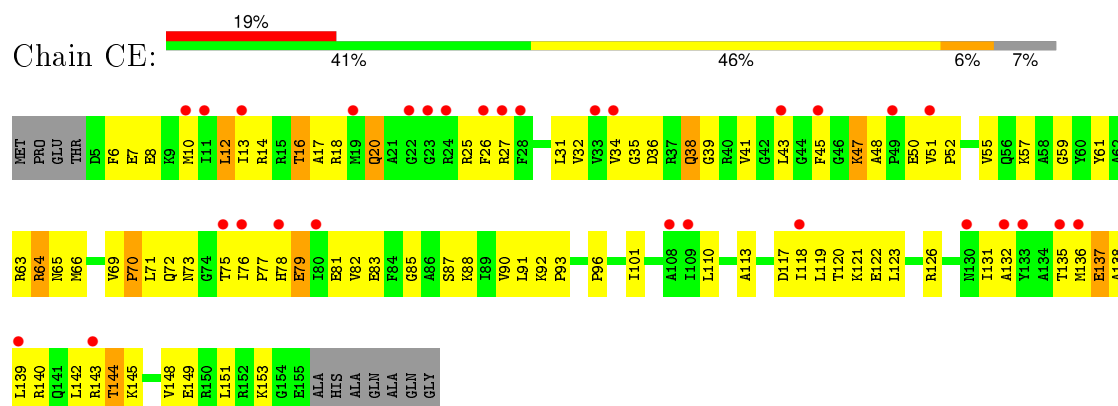
• Molecule 5: 30S ribosomal protein S3



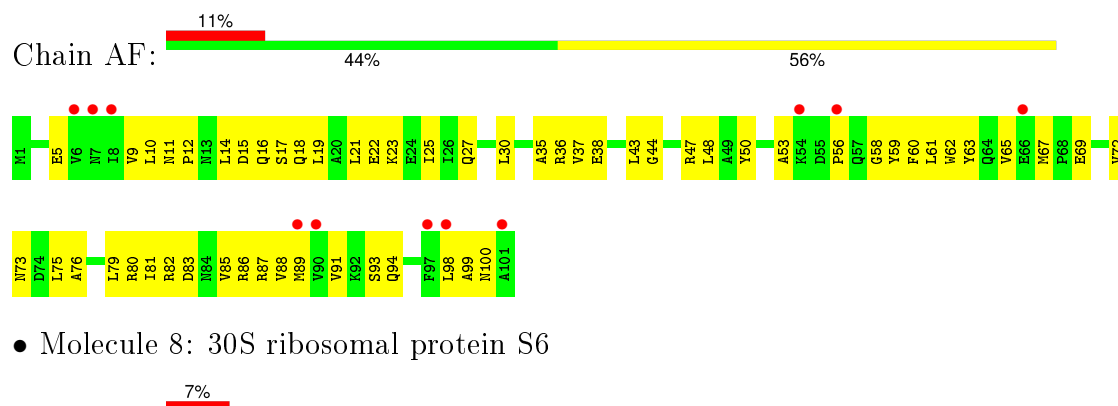
• Molecule 5: 30S ribosomal protein S3



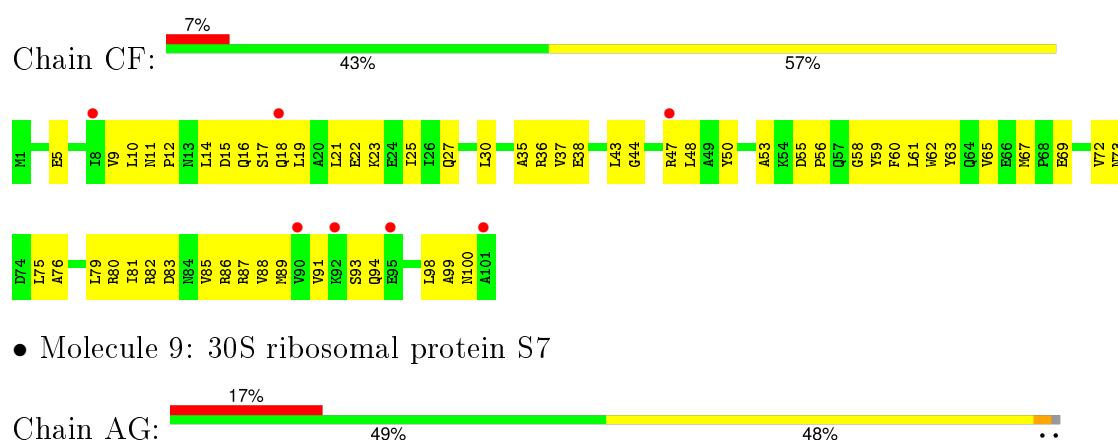
• Molecule 7: 30S ribosomal protein S5



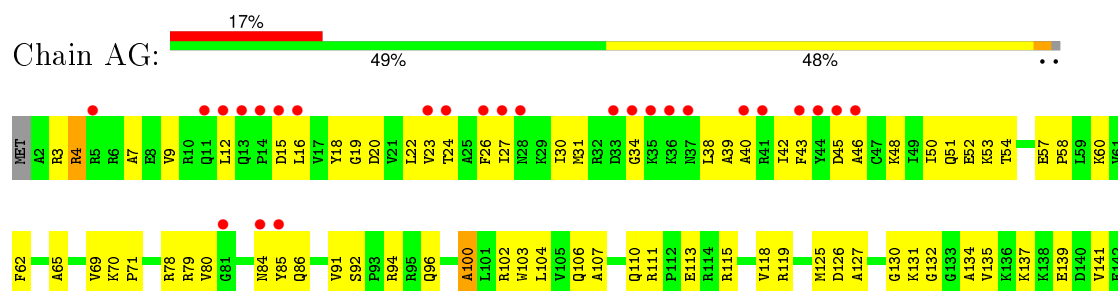
• Molecule 8: 30S ribosomal protein S6



• Molecule 8: 30S ribosomal protein S6



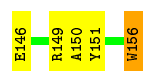
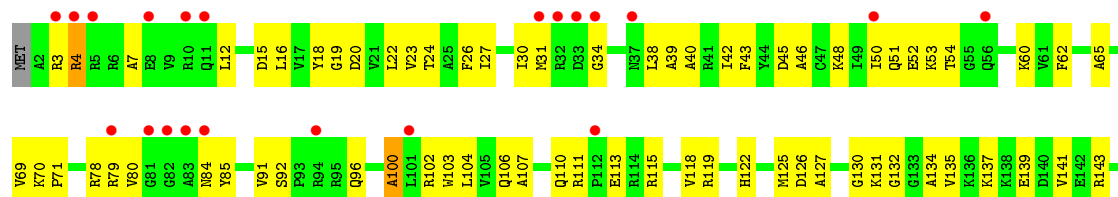
• Molecule 9: 30S ribosomal protein S7





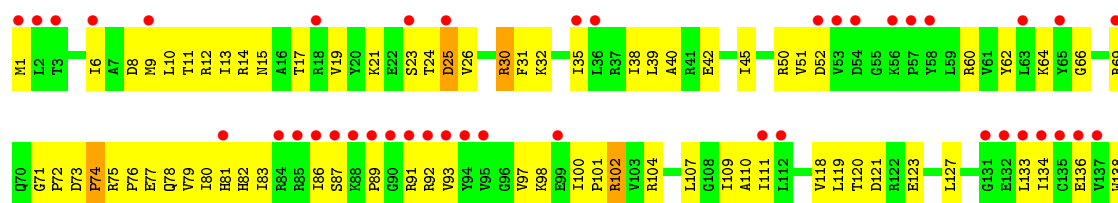
• Molecule 9: 30S ribosomal protein S7

Chain CG: 13% 52% 46% ..



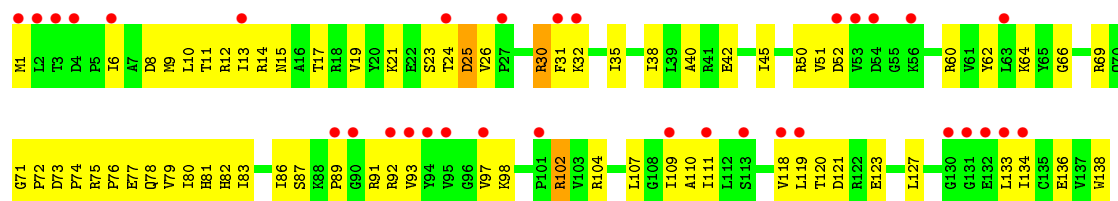
• Molecule 10: 30S ribosomal protein S8

Chain AH: 30% 47% 50% .



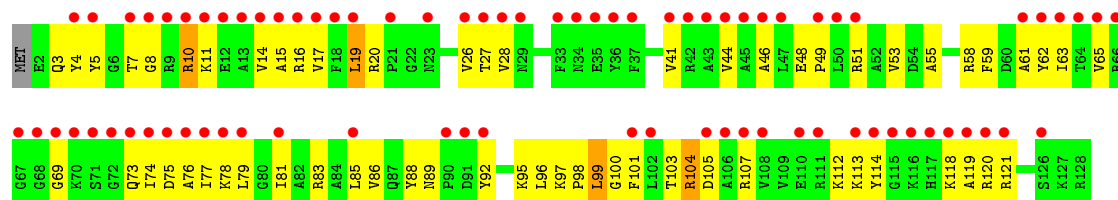
• Molecule 10: 30S ribosomal protein S8

Chain CH: 24% 49% 49% .

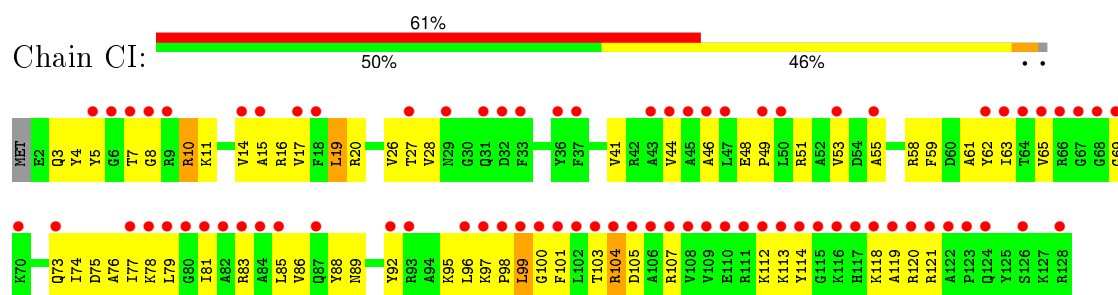


• Molecule 11: 30S ribosomal protein S9

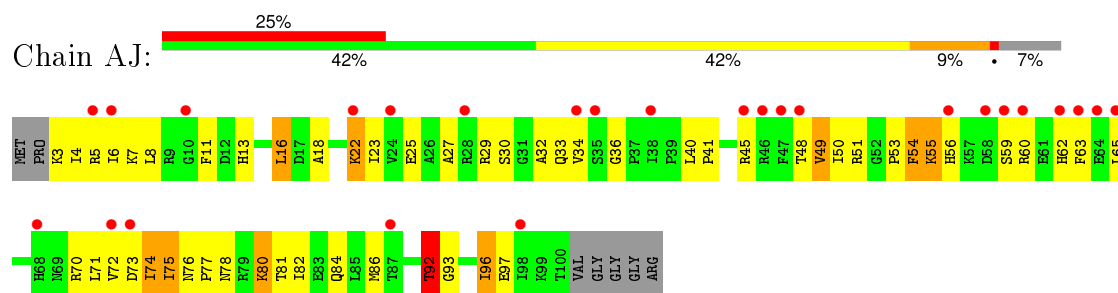
Chain AI: 61% 50% 46% ..



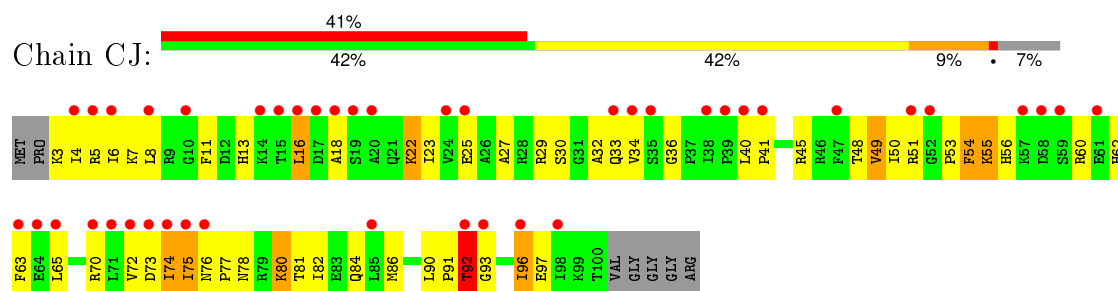
• Molecule 11: 30S ribosomal protein S9



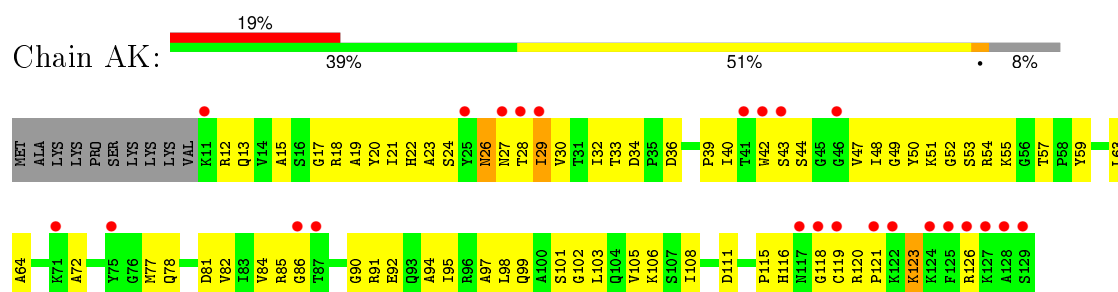
- Molecule 12: 30S ribosomal protein S10



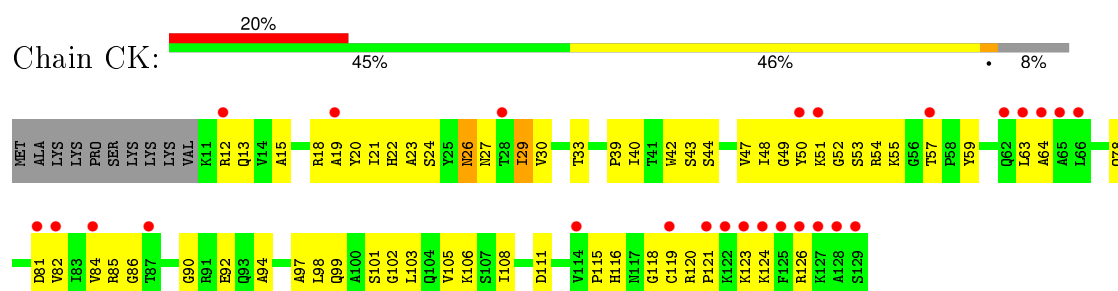
- Molecule 12: 30S ribosomal protein S10



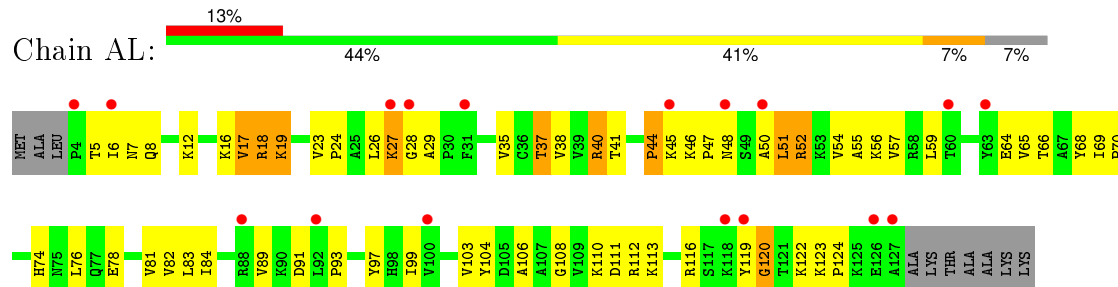
- Molecule 13: 30S ribosomal protein S11



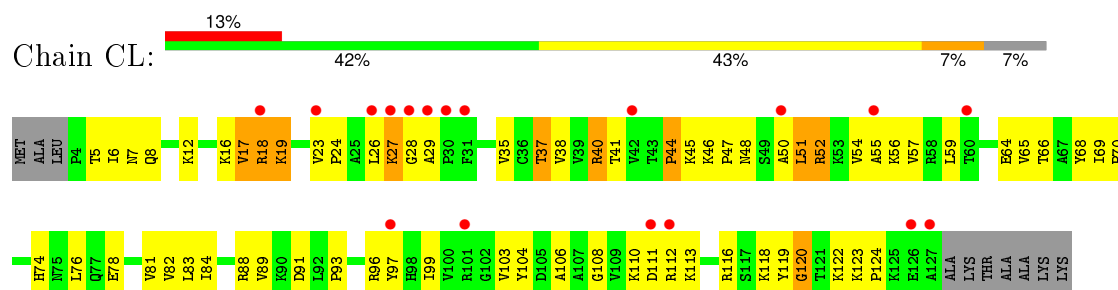
- Molecule 13: 30S ribosomal protein S11



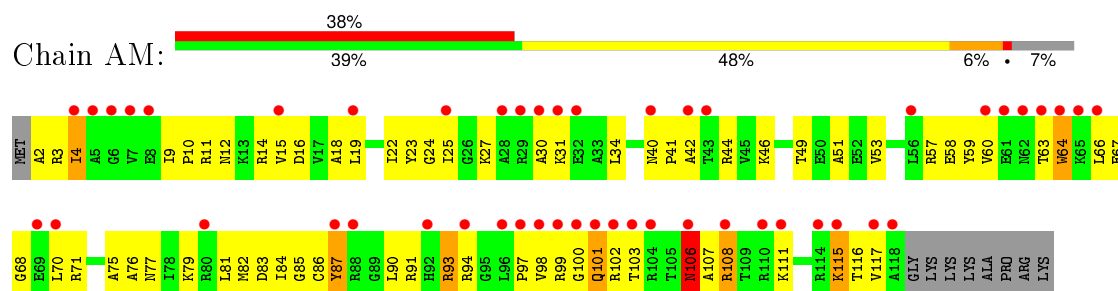
- Molecule 14: 30S ribosomal protein S12



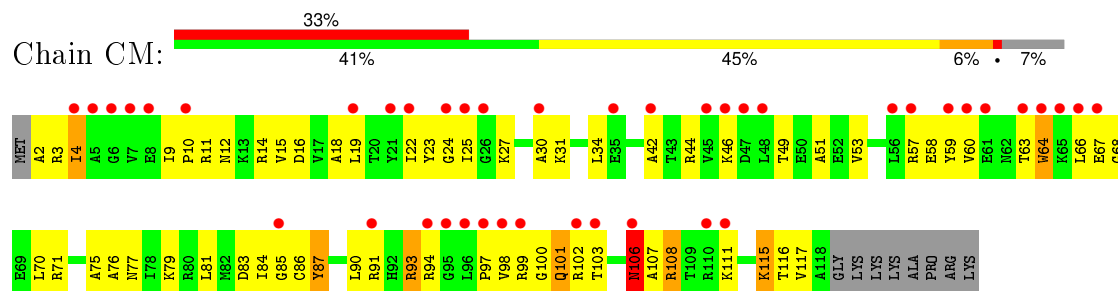
- Molecule 14: 30S ribosomal protein S12



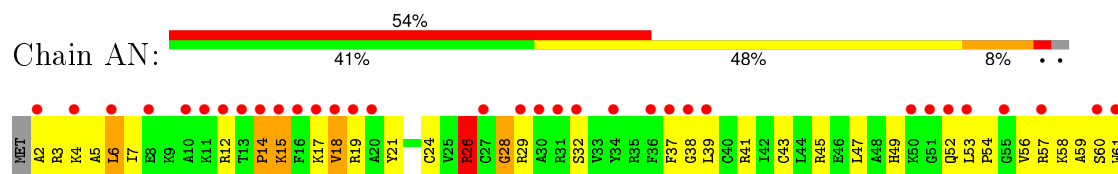
- Molecule 15: 30S ribosomal protein S13



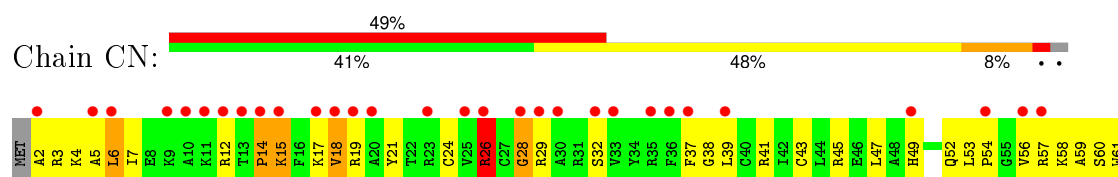
- Molecule 15: 30S ribosomal protein S13



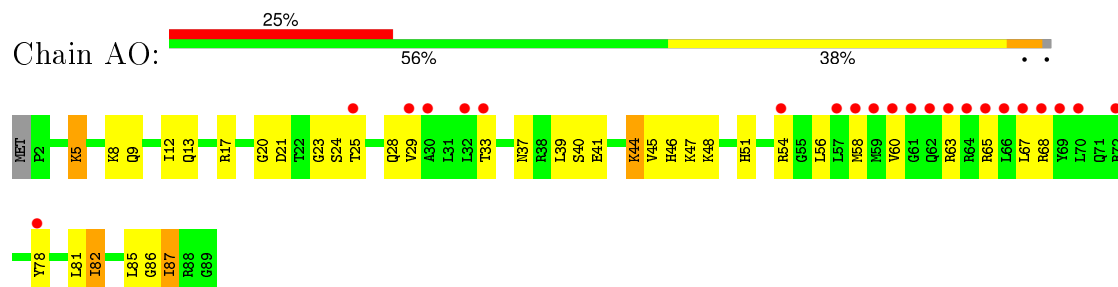
- Molecule 16: 30S ribosomal protein S14



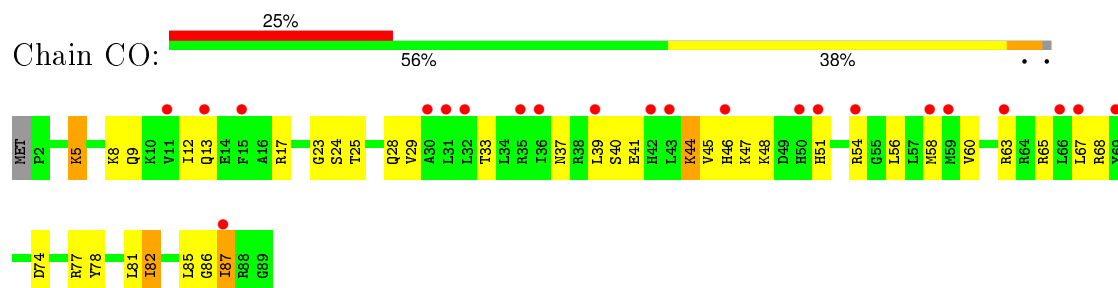
- Molecule 16: 30S ribosomal protein S14



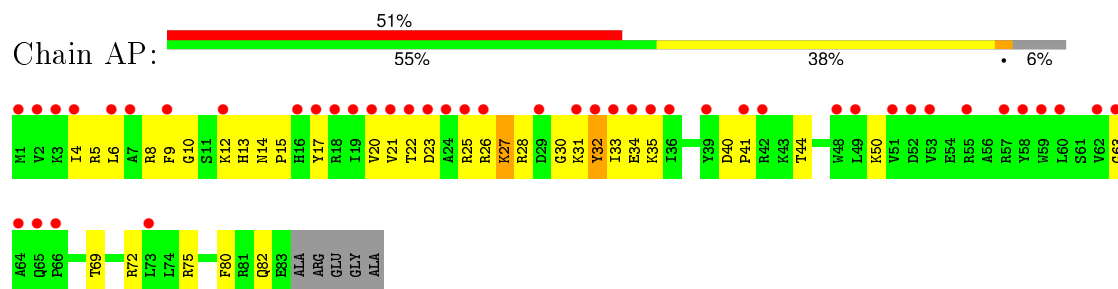
- Molecule 17: 30S ribosomal protein S15



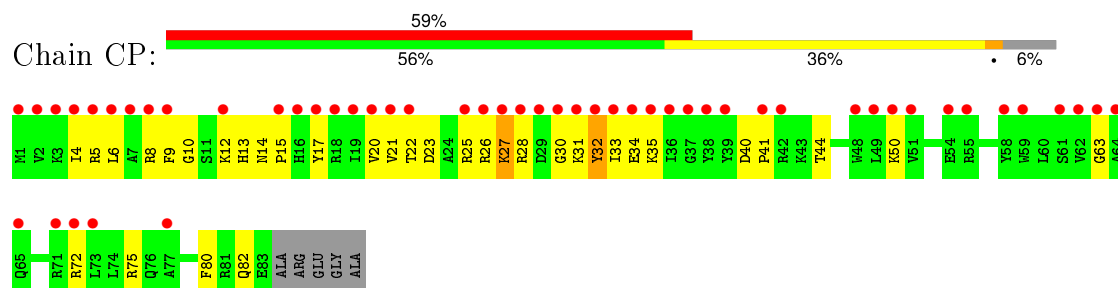
- Molecule 17: 30S ribosomal protein S15



- Molecule 18: 30S ribosomal protein S16

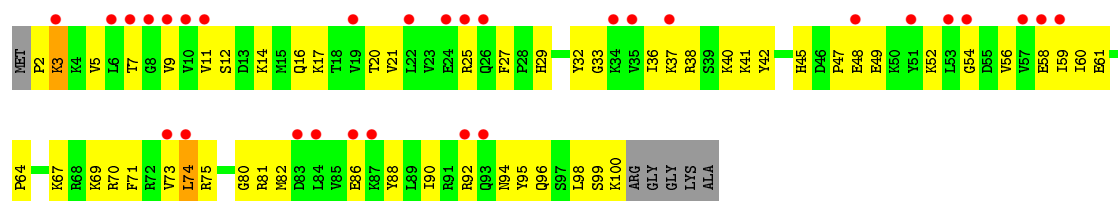


- Molecule 18: 30S ribosomal protein S16

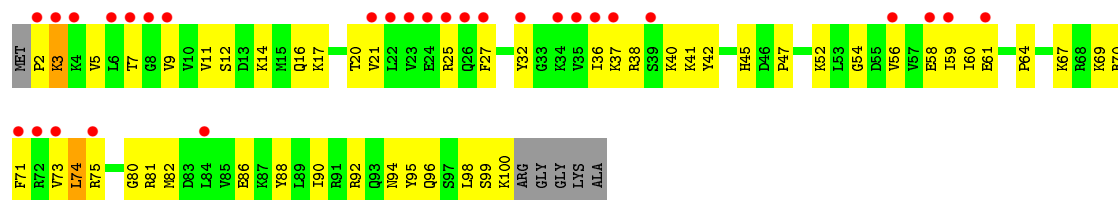


- Molecule 19: 30S ribosomal protein S17

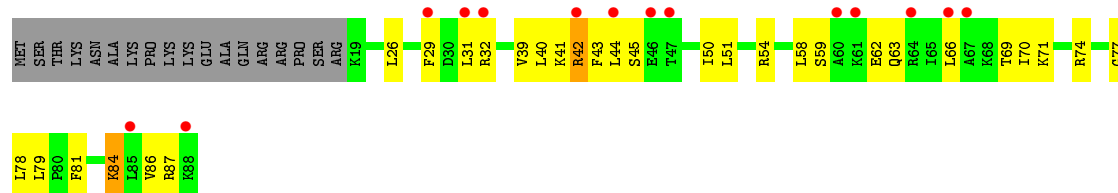




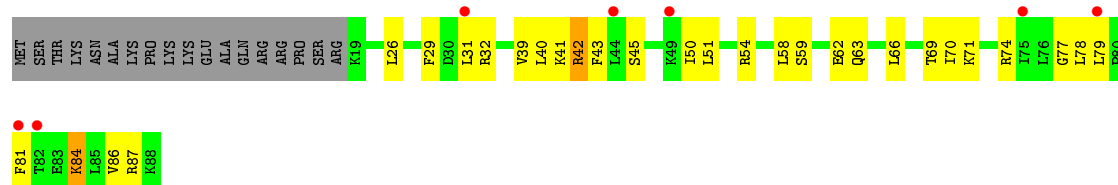
- Molecule 19: 30S ribosomal protein S17



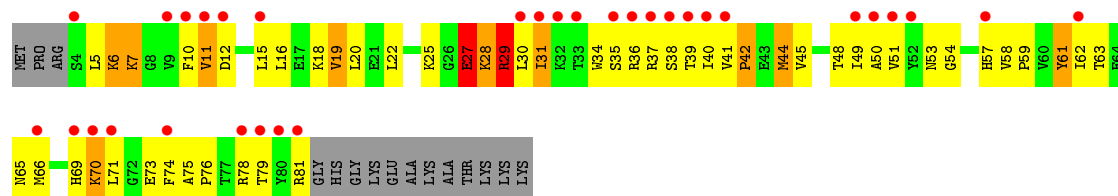
- Molecule 20: 30S ribosomal protein S18



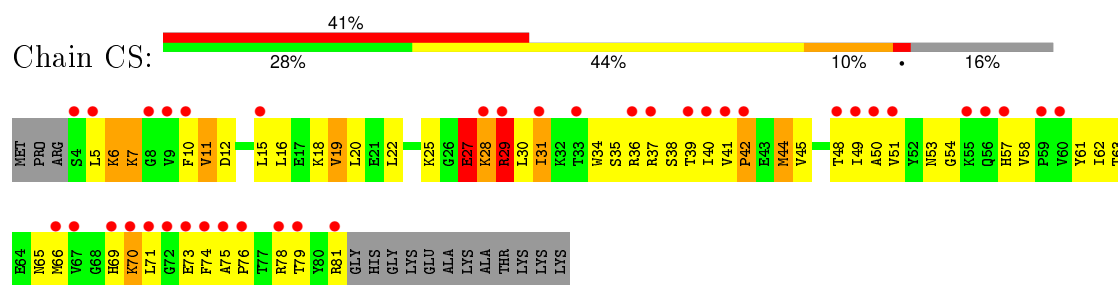
- Molecule 20: 30S ribosomal protein S18



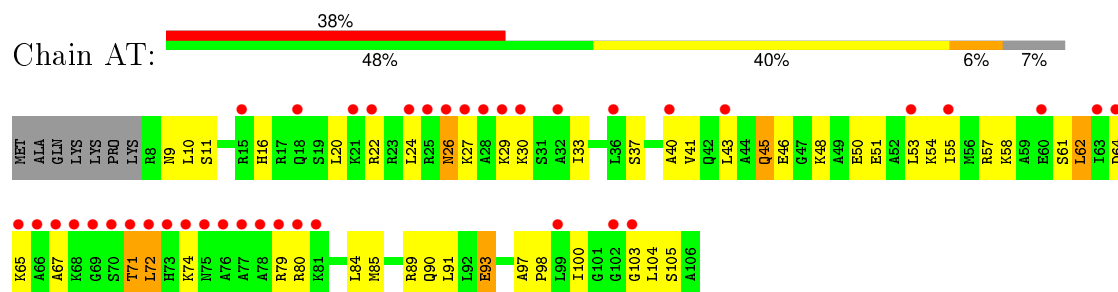
- Molecule 21: 30S ribosomal protein S19



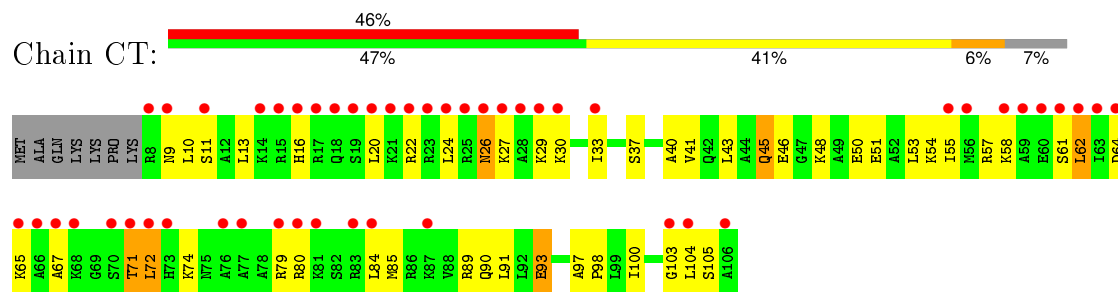
- Molecule 21: 30S ribosomal protein S19



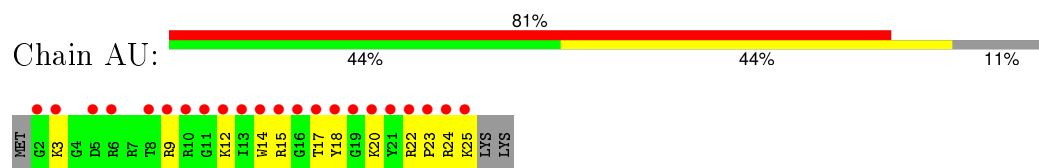
- Molecule 22: 30S ribosomal protein S20



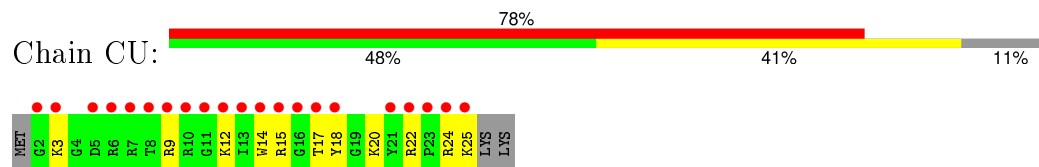
- Molecule 22: 30S ribosomal protein S20



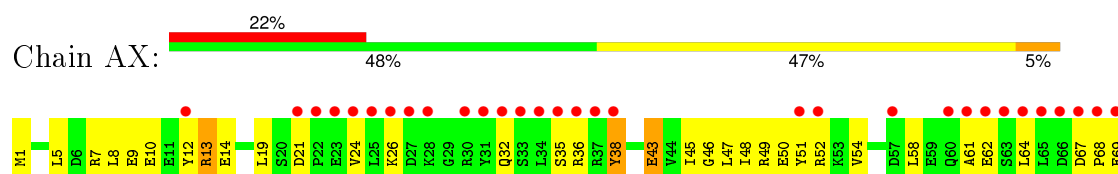
- Molecule 23: 30S ribosomal protein Thx

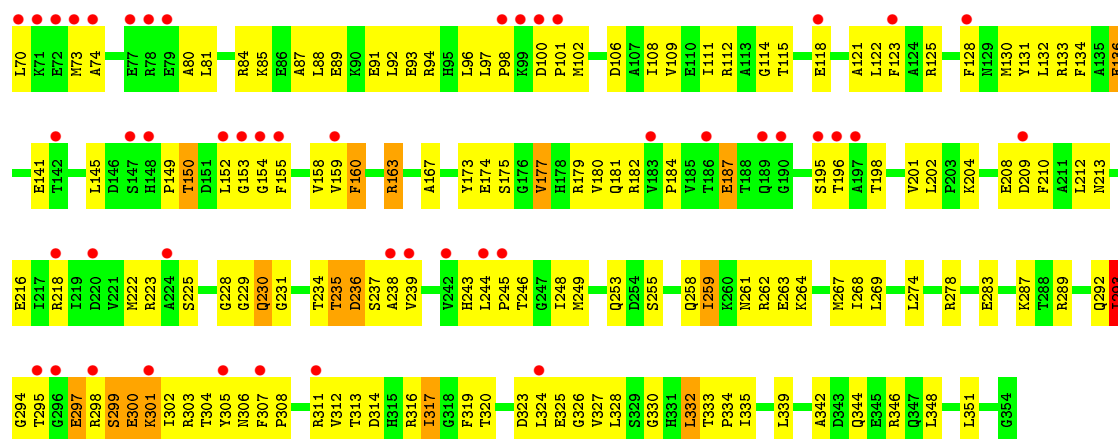


- Molecule 23: 30S ribosomal protein Thx

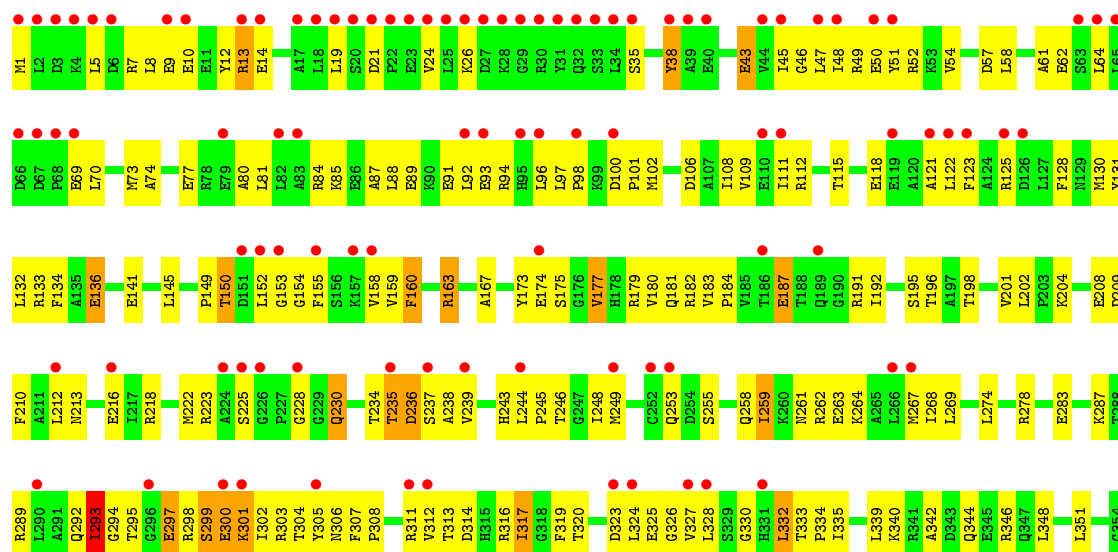


- Molecule 24: Peptide chain release factor 1

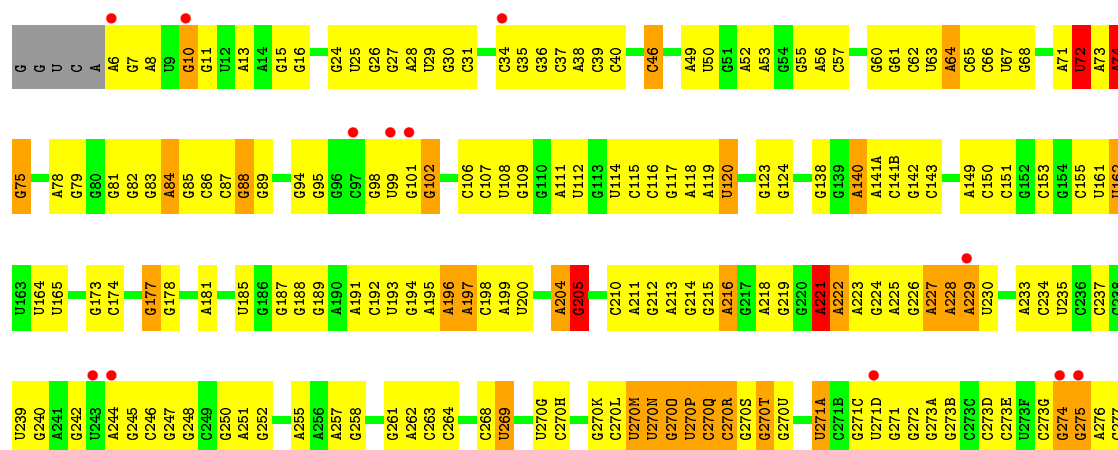




• Molecule 24: Peptide chain release factor 1

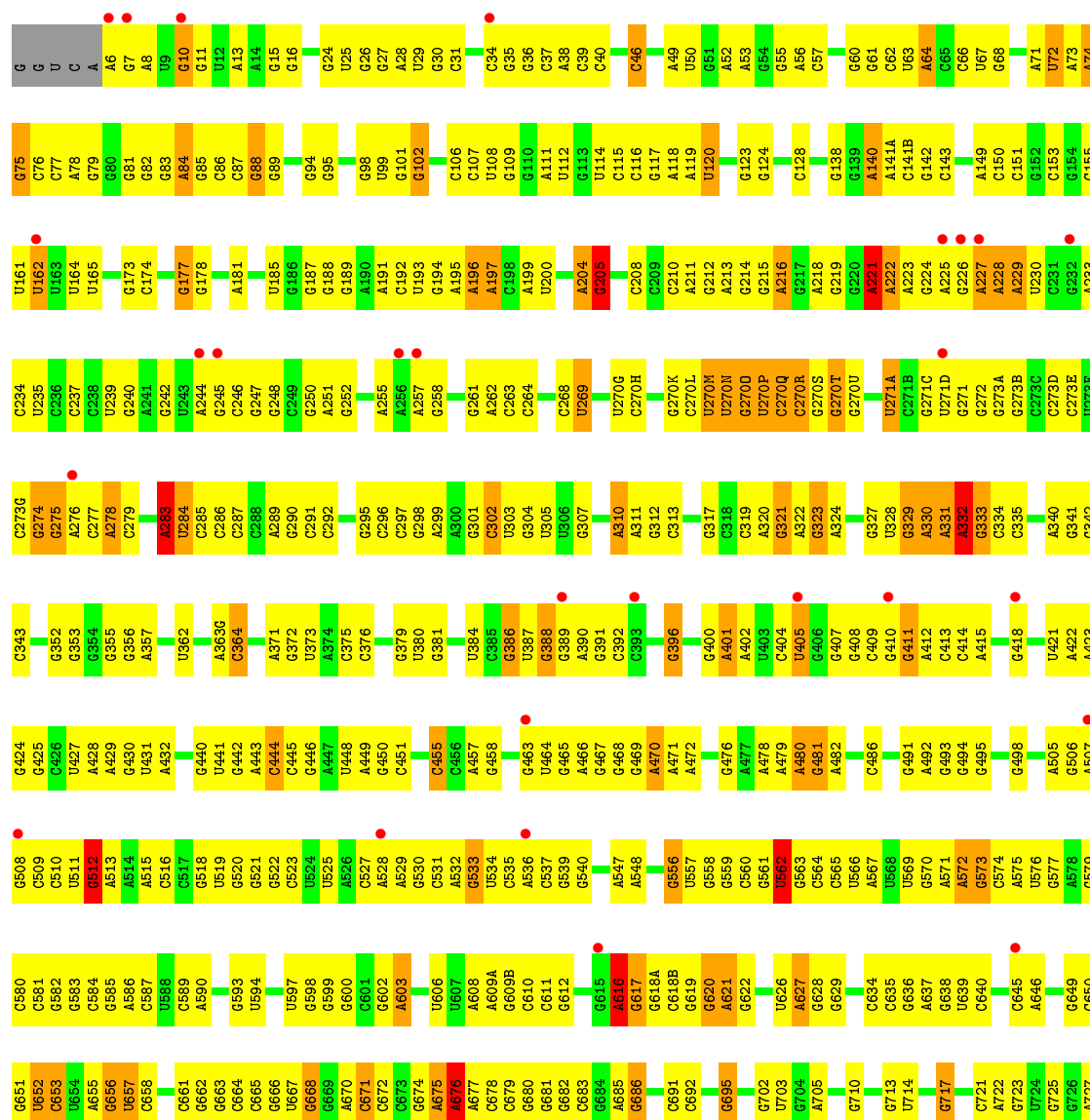


• Molecule 25: 23S RRNA

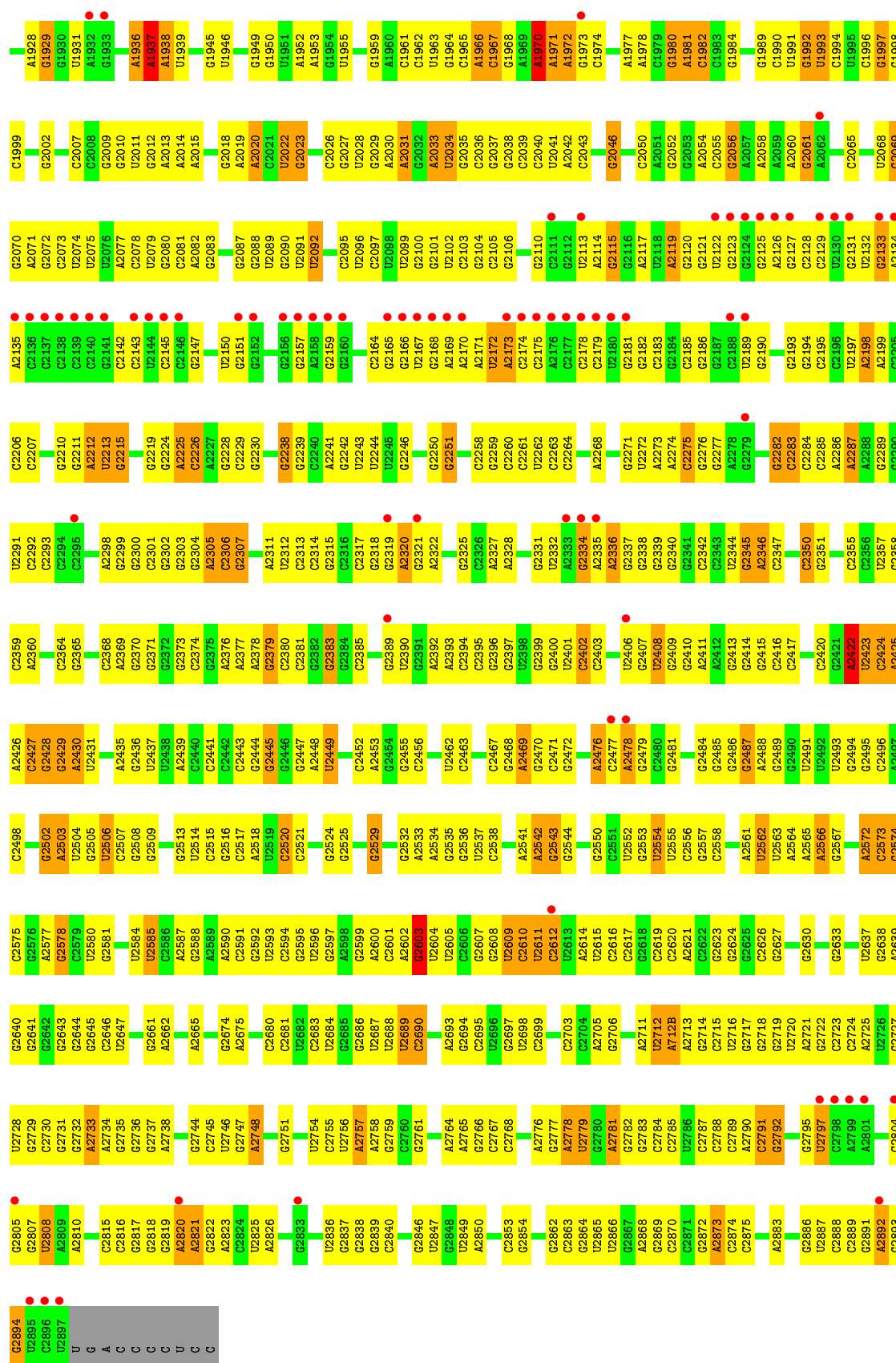


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C1333	C1334	G1265	A1266	U1188	G1106	G1045	G969	C893	C814	U740	G662	A586	A514	U431	A357	C279
A1336	A1337	G1267	G1268	G1190	U1107	A1046	C970	C894	C815	G741	G663	C587	A515	A432	U359	A282
G1338	G1339	U1267	A1268	G1191	G1108	G1047	C971	U895	C816	G742	C664	U588	C516	G440	U362	U284
U1340	U1341	G1269	A1269	G1192	A1111	A1050	A973	A896	A819	G743	C665	C589	C517	U441	U363	C285
A1342	A1343	G1270	G1271	G1193	G1112	A1051	G974A	C897	U820	U744	U667	A590	U519	U442	A363G	C286
G1348	G1349	G1272	G1273	G1194	U1113	G1052	C974B	C904	G823	U747	G668	G593	G520	U443	C364	C287
A1353	A1354	G1274	G1275	G1195	G1120	A1054	G979	U905	A824		G669	U597	G521	A444	A363G	C288
G1356	G1357	G1276	A1277	G1196	G1121	A1055	G980	U906	U825	C755	A670	U598	G522	U445	A371	A289
U1358	U1359	G1278	G1279	G1197	G1122	G1056	C982	C908	U826	C756	C671	G598	G523	U446	G372	G290
A1361	A1362	G1280	A1281	U1198	G1123	A1057	A983	U909	U827	U757	C672	G599	U524	U447	U373	C291
G1364	G1365	G1282	G1283	G1200	G1125	G1058	A984	A910	A829	U762	C673	G600	A526	U448	A374	C292
A1368	A1369	G1284	A1285	G1201	G1126	G1059	C985	A911	G830	G763	A675	A603	C527	U449	C376	G295
G1371	G1372	G1286	G1287	G1202	A1127	U1060	A990	C914	G831	A764	A676	U606	A528	C451	C375	C296
A1373	A1374	G1288	A1289	G1203	A1128	U1061	A991	C915	G832	G765	A677	U607	A529	C452	U380	C297
G1376	G1377	G1290	G1291	G1204	A1129	G1062	A992	C916	U833	C766	C678	A608	C531	C453	G381	G298
A1379	A1380	G1292	G1293	G1205	G1130	G1063	C994	U917	C834	U767	C679	A609A	A532	A457	U384	A299
G1380	G1381	G1294	G1295	G1206	G1131	C1064	C995	A918	A835	G768	G680	A609B	G533	A458	C385	G300
G1382	G1383	G1296	G1297	G1207	A1132	U1065	A996	C919	G836	G769	G681	G609B	C534	G459	C386	G301
A1384	A1385	G1298	G1299	G1208	C1133	U1066	C997	G919	U837	G770	G682	C610	C535	G463	U387	C302
G1386	G1387	G1300	G1301	G1209	C1135	A1067	C998	G920	U839	G771	C683	C611	C536	G464	U388	G303
U1394	U1395	G1302	G1303	G1210	G1136	G1068	U999	C923	C840	C772	G684	G612	C537	G465	G389	G304
U1396	U1397	G1304	G1305	G1211	G1137	A1069	A1000	C924	G845	U773	A685	G615	C538	G466	U390	G305
C1398	C1399	G1306	G1307	G1212	G1138	A1070	A1001	G929	G846	A774	G686	A616	C539	G467	A390	U306
G1404	G1405	G1308	G1309	G1213	G1139	G1071	G1002	U930	U847	G775	C691	G617	C540	G468	C392	G307
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C1408	C1409	G1312	G1313	G1215	U1141	U1073	G1004	U932	A849	A777	C693	G619	A548	G470	A471	A311
U1410	U1411	G1314	G1315	G1216	G1142	U1074	C1005	U933	C850	A782	G695	G620	G556	A472	G312	G313
C1412	C1413	G1316	G1317	G1217	A1143	C1075	G1006	U934	U851	A783	G696	G621	G557	A473	G314	
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		C1426	C1427	G1326	G1149	U1082	C1013	A941	U858	C791	G635	C635	C563	A480	G406	A322
		U1428	U1429	G1327	G1150	U1083	U1014	U942	U859	G792	G636	A637	C565	A481	G407	G323
		G1430	G1431	G1328	G1151	U1084	G1015	U943	G861	G793	G638	U639	U566	A482	G408	A324
		C1432	C1433	G1329	G1152	U1085	A1020	U944	G862	C796	A716	C640	U568	C486	G410	G329
		U1434	U1435	G1330	G1153	U1086	A1021	U945	G863	C797	G717	C641	U569	C491	G411	A330
		G1436	G1437	G1331	G1154	U1087	G1022	U946	G864	G798	G721	A646	G570	A492	A412	A331
		C1438	C1439	G1332	G1155	U1088	U1023	G950	C865	G799	A722	G645	A571	C493	C413	G332
		U1440	U1441	G1333	G1156	U1089	G1024	C951	C866	U800	G723	A646	A572	C494	A415	G333
		G1442	G1443	G1334	G1157	U1090	G1025	U952	C867	G801	G724	G649	C574	G495	G418	C334
		C1444	C1445	G1335	G1158	U1091	U1026	U953	A870	A802	U725	C650	A575	C496	C335	G335
		U1446	U1447	G1336	G1159	U1092	U1027	U954	U871	U803	G726	C651	U576	A505	U421	A340
		G1448	G1449	G1337	G1160	U1093	A1028	C955	C876	G805	A727	U652	A578	C506	A422	G341
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		U1458	U1459	G1342	G1165	U1098	U1035	C961	C888	U810	G734	G657	G583	C510	U427	G354
		G1460	G1461	G1343	G1166	U1099	U1036	U962	C889	U811	G735	C658	C584	U511	A428	G355
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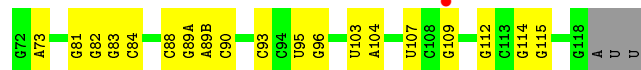
• Molecule 26: 5S rRNA

Chain BB:



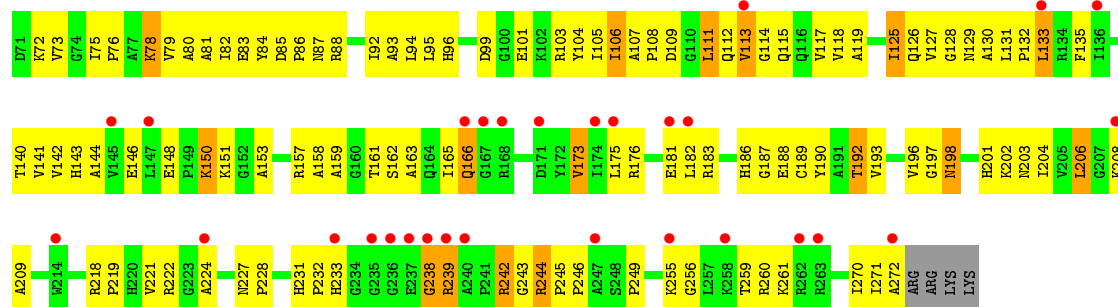
- Molecule 26: 5S rRNA

Chain DB:



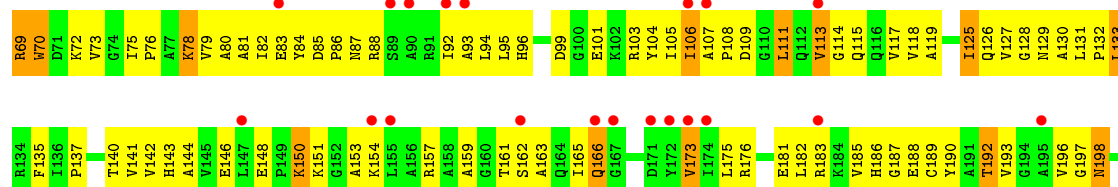
- Molecule 27: 50S ribosomal protein L2

Chain BD:



- Molecule 27: 50S ribosomal protein L2

Chain DD:





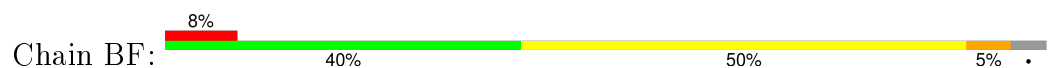
• Molecule 28: 50S ribosomal protein L3



• Molecule 28: 50S ribosomal protein L3

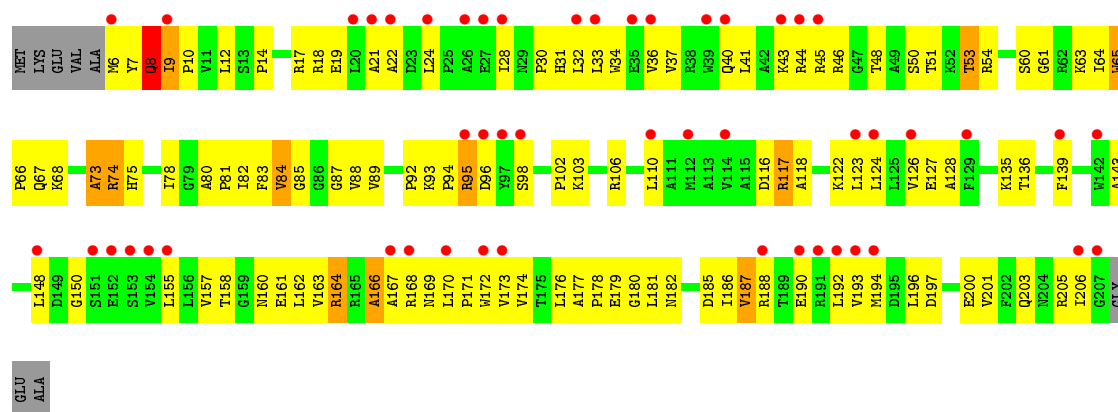


• Molecule 29: 50S ribosomal protein L4



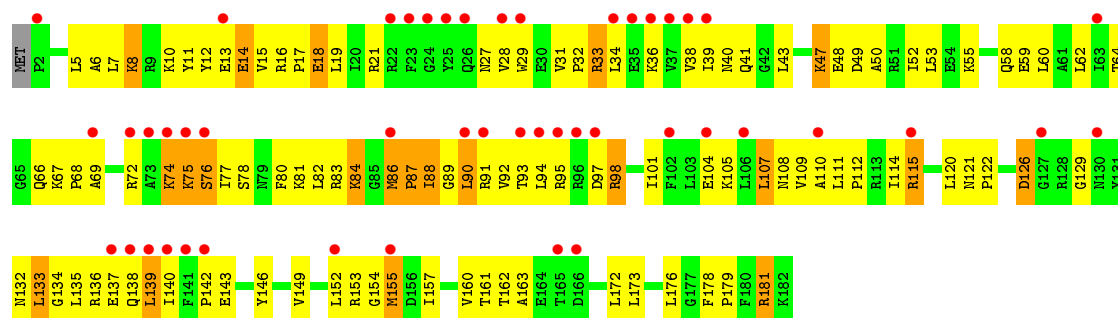
• Molecule 29: 50S ribosomal protein L4





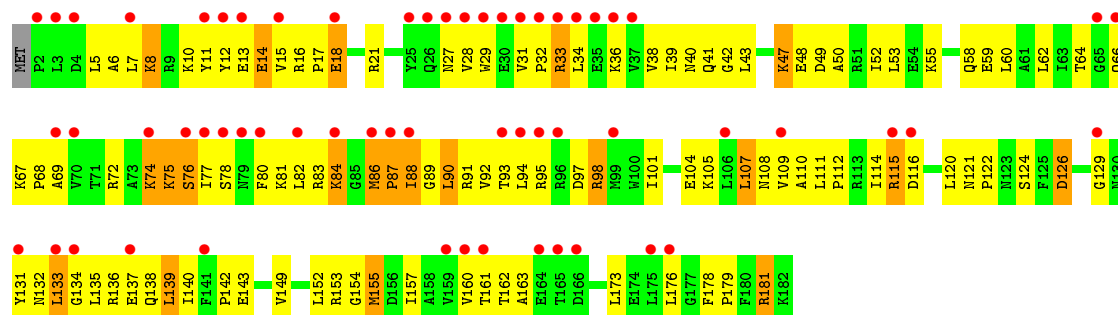
• Molecule 30: 50S ribosomal protein L5

Chain BG: 26% 38% 49% 12%



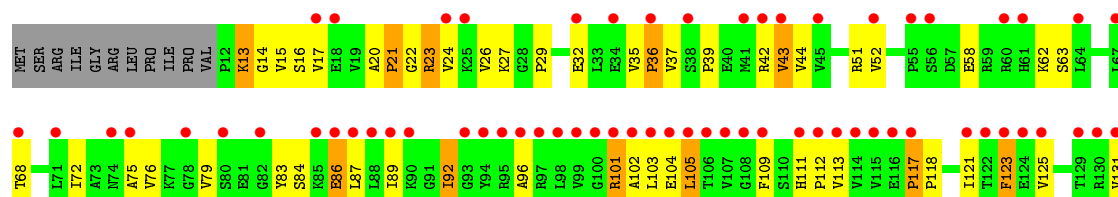
• Molecule 30: 50S ribosomal protein L5

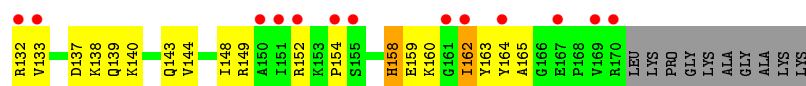
Chain DG: 33% 38% 50% 12%



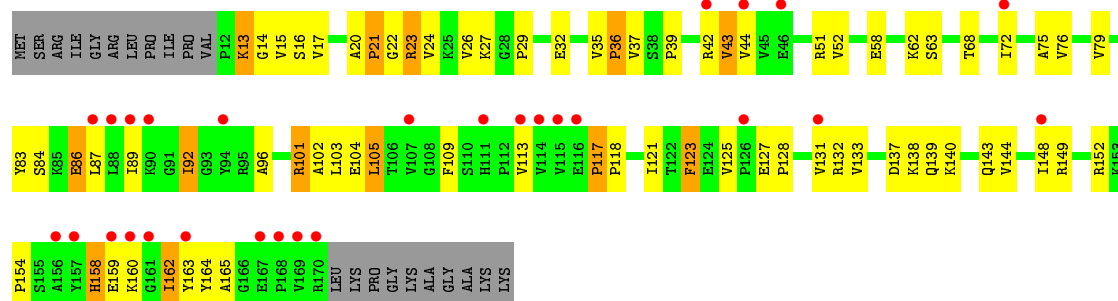
• Molecule 31: 50S ribosomal protein L6

Chain BH: 43% 48% 33% 7% 12%

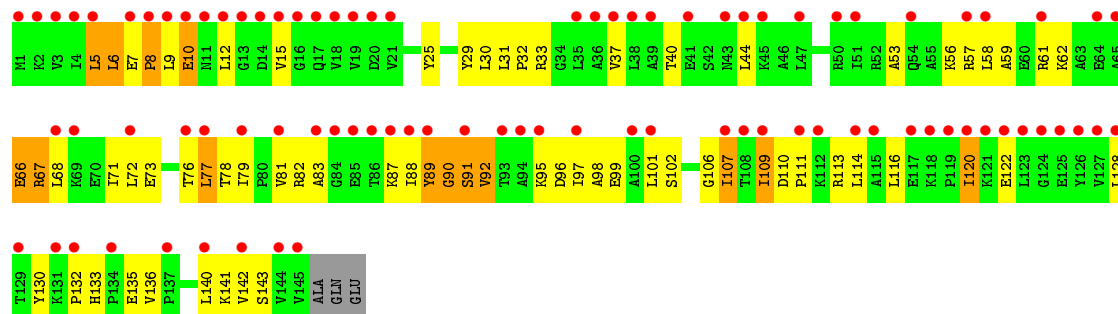




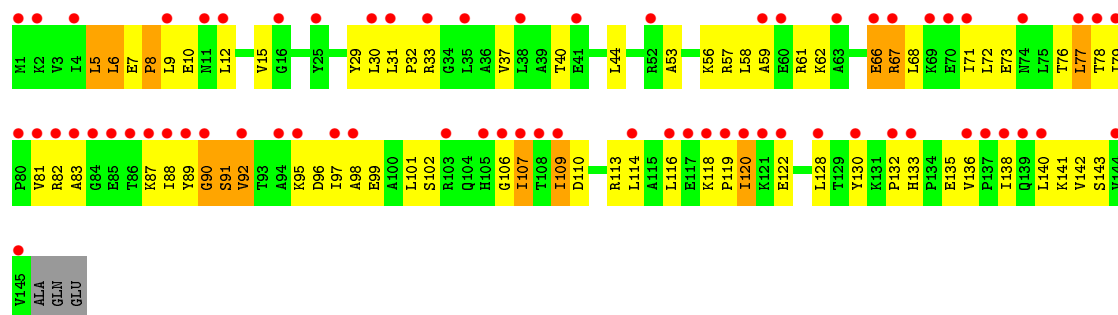
• Molecule 31: 50S ribosomal protein L6



• Molecule 32: 50S ribosomal protein L9

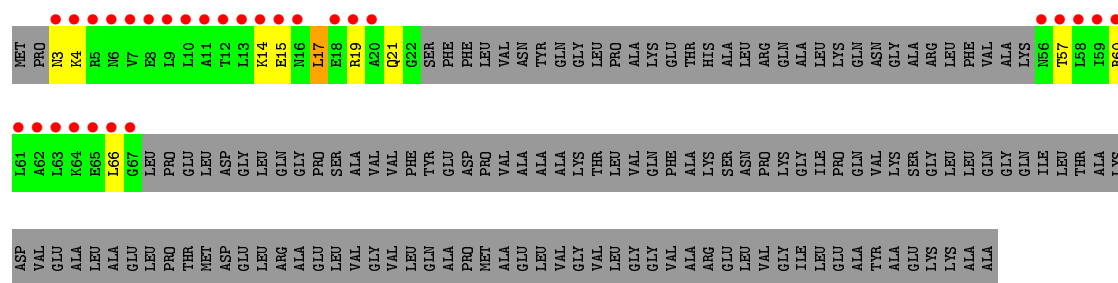


• Molecule 32: 50S ribosomal protein L9

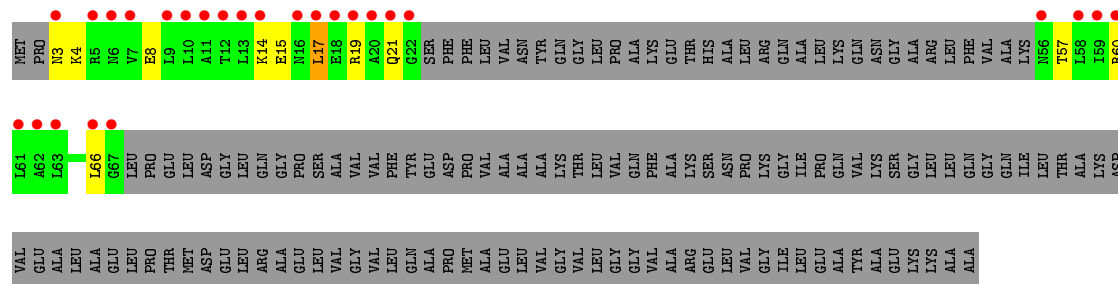


• Molecule 33: 50S ribosomal protein L10

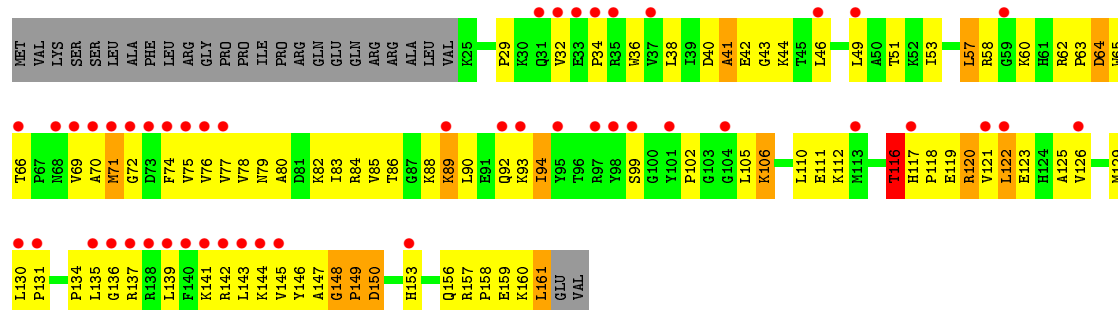




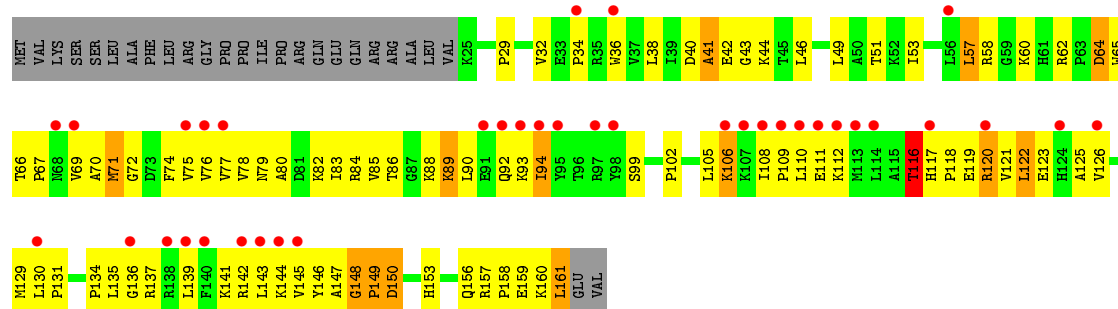
• Molecule 33: 50S ribosomal protein L10



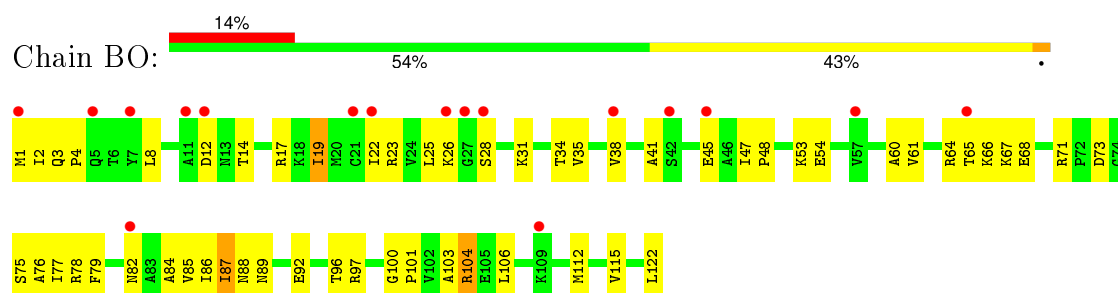
• Molecule 34: 50S ribosomal protein L13



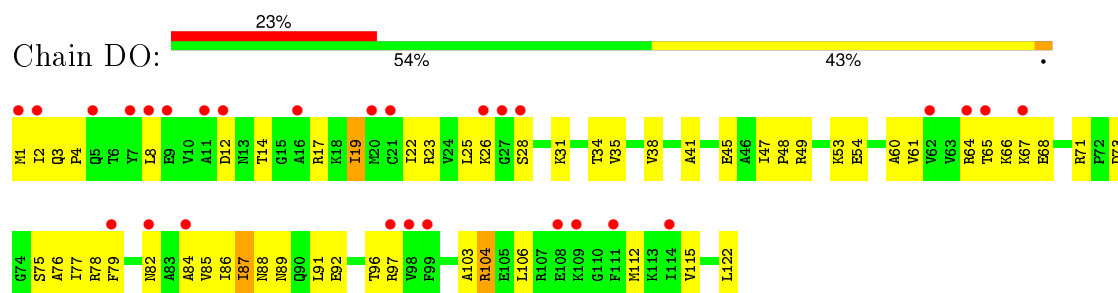
• Molecule 34: 50S ribosomal protein L13



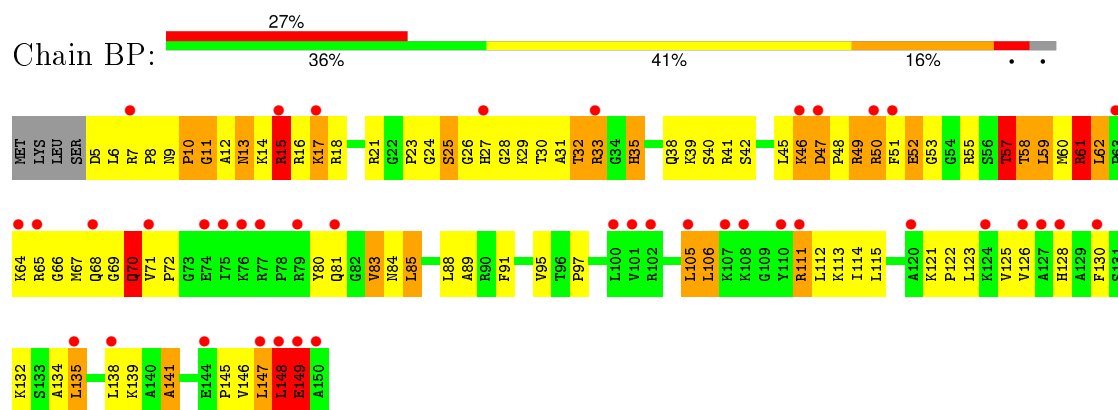
• Molecule 35: 50S ribosomal protein L14



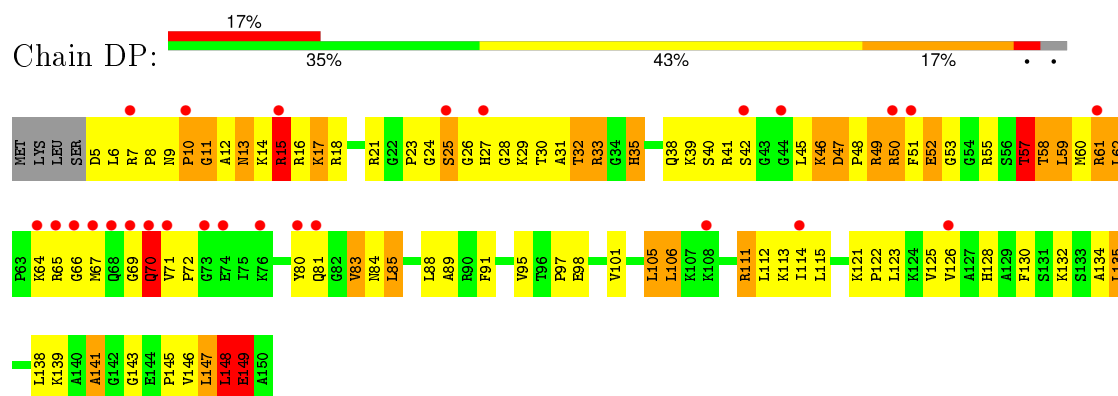
- Molecule 35: 50S ribosomal protein L14



- Molecule 36: 50S ribosomal protein L15

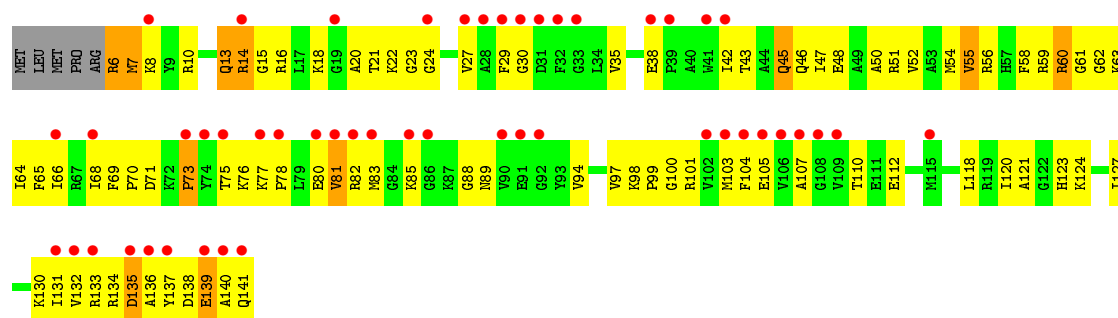


- Molecule 36: 50S ribosomal protein L15

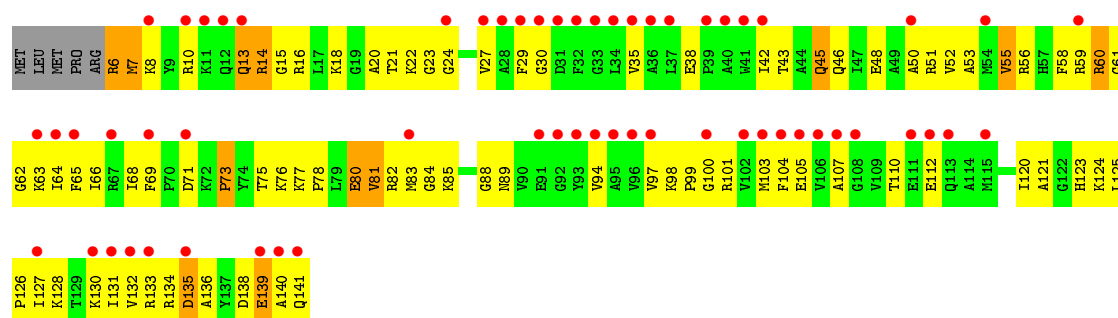
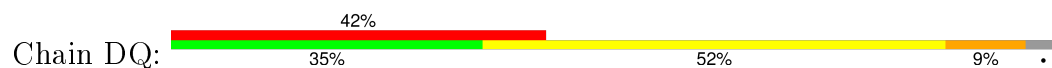


- Molecule 37: 50S ribosomal protein L16

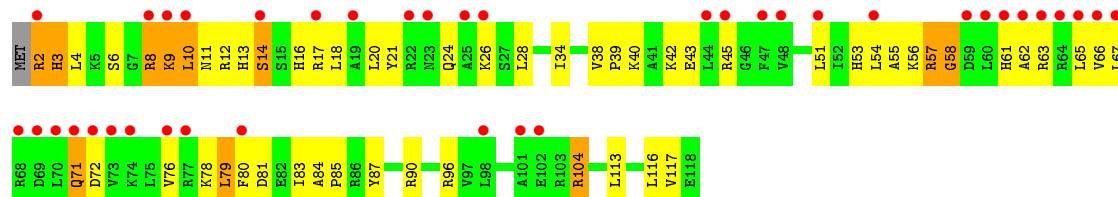




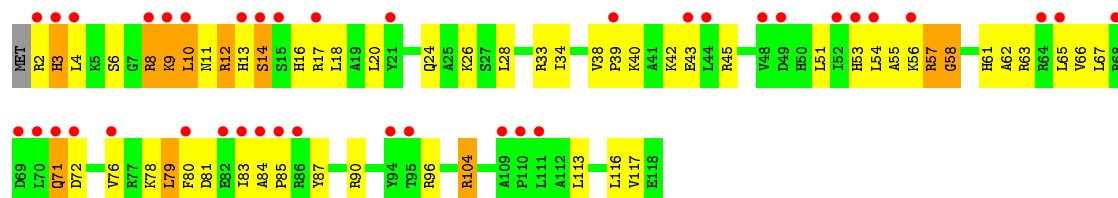
- Molecule 37: 50S ribosomal protein L16



- Molecule 38: 50S ribosomal protein L17

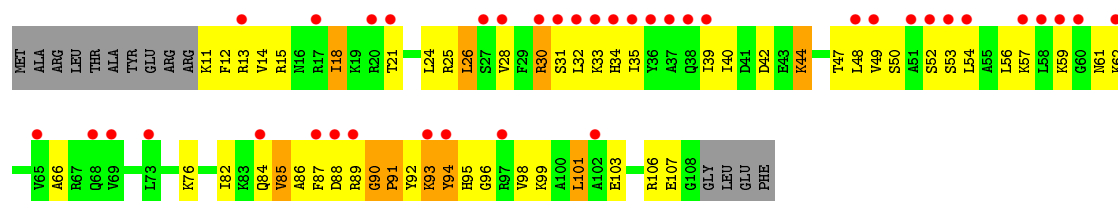


- Molecule 38: 50S ribosomal protein L17

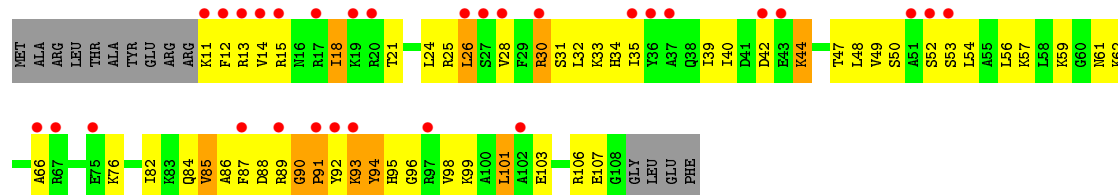


- Molecule 39: 50S ribosomal protein L18

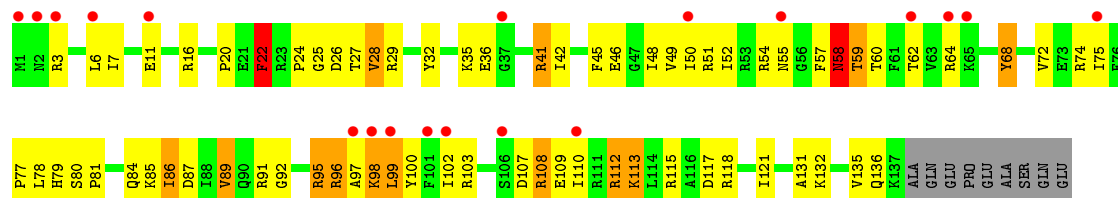




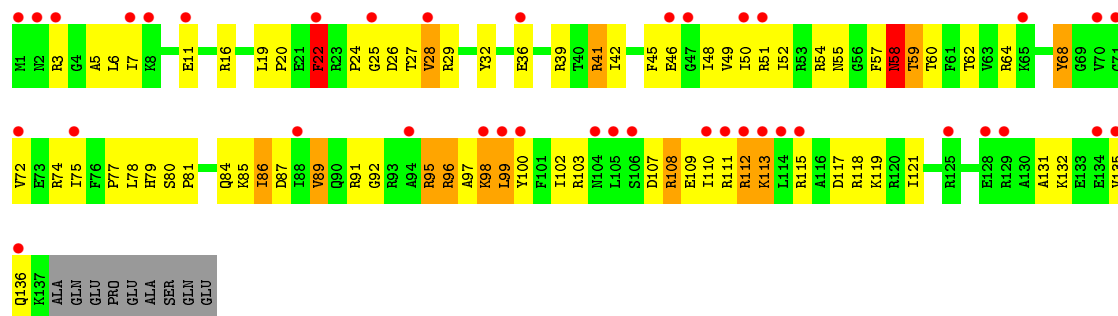
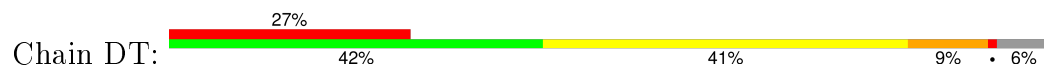
• Molecule 39: 50S ribosomal protein L18



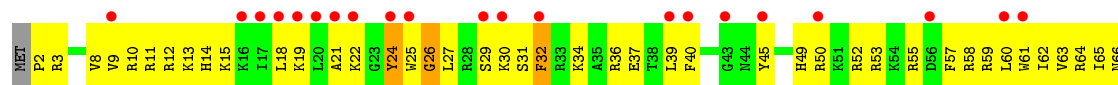
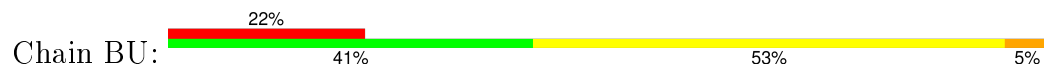
• Molecule 40: 50S ribosomal protein L19

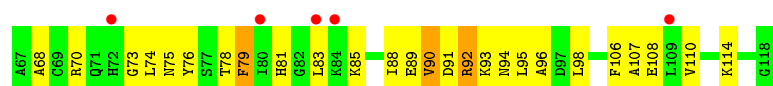


• Molecule 40: 50S ribosomal protein L19

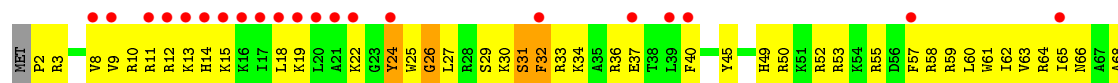
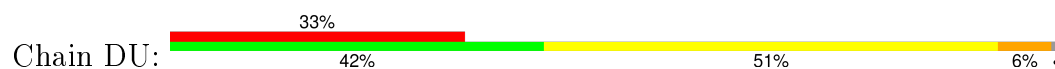


• Molecule 41: 50S ribosomal protein L20

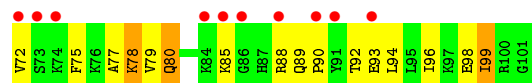
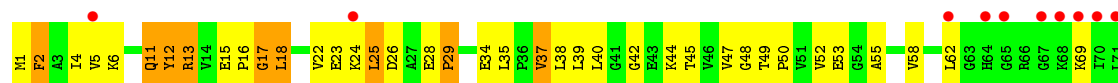




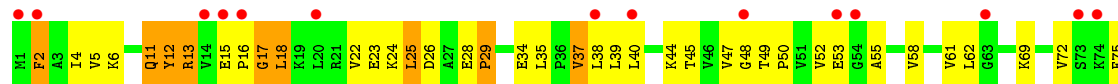
- Molecule 41: 50S ribosomal protein L20



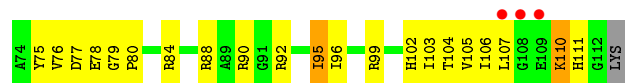
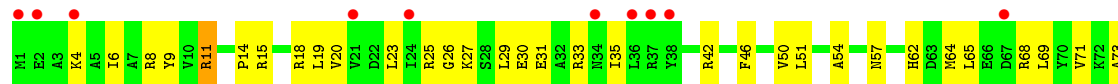
- Molecule 42: 50S ribosomal protein L21



- Molecule 42: 50S ribosomal protein L21

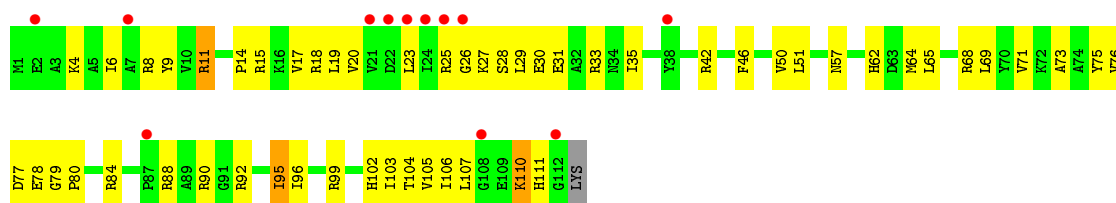


- Molecule 43: 50S ribosomal protein L22

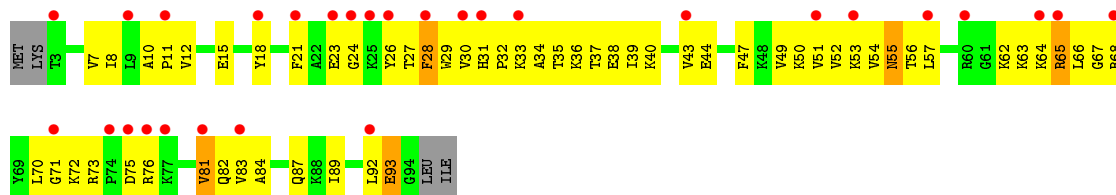


- Molecule 43: 50S ribosomal protein L22

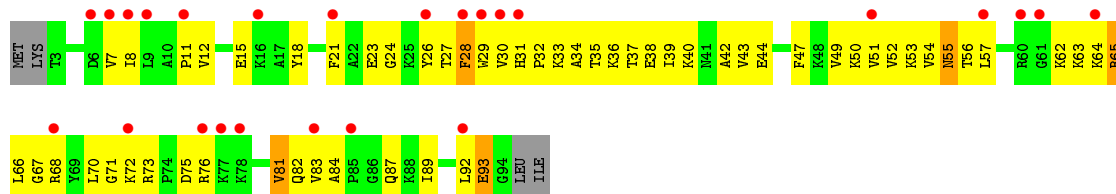




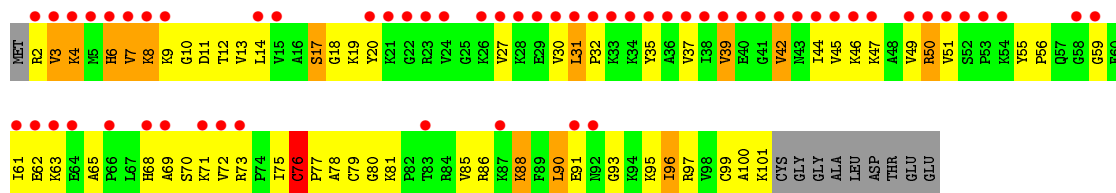
• Molecule 44: 50S ribosomal protein L23



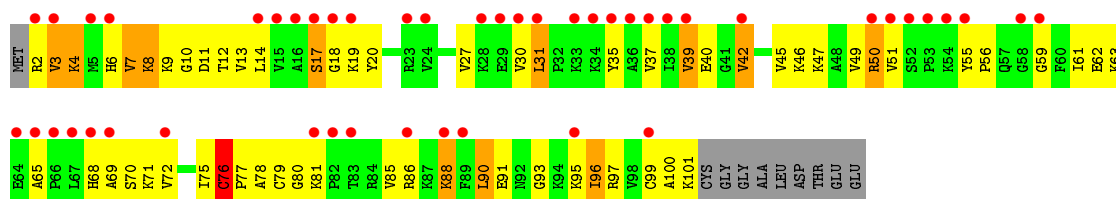
• Molecule 44: 50S ribosomal protein L23



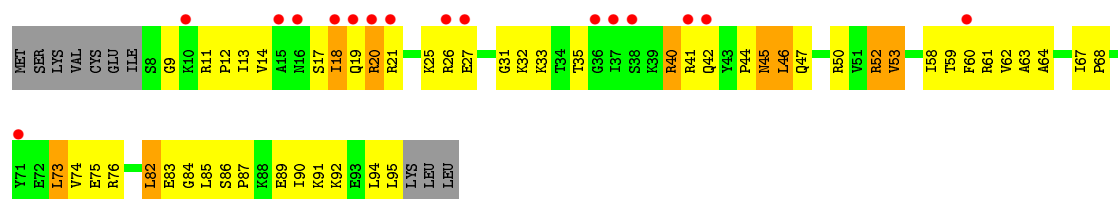
• Molecule 45: 50S ribosomal protein L24



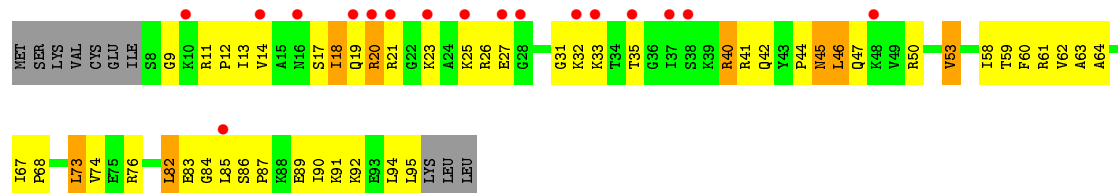
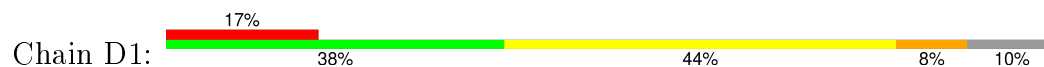
• Molecule 45: 50S ribosomal protein L24



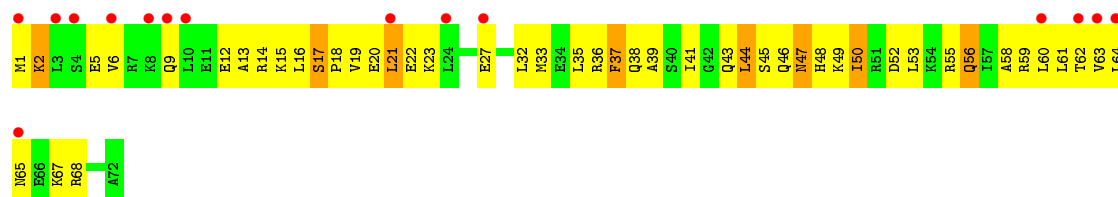
• Molecule 46: 50S ribosomal protein L25



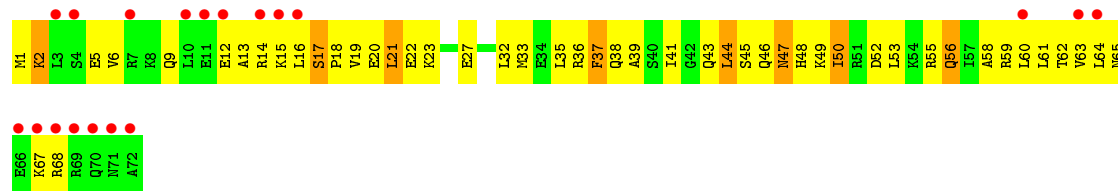
• Molecule 48: 50S ribosomal protein L28



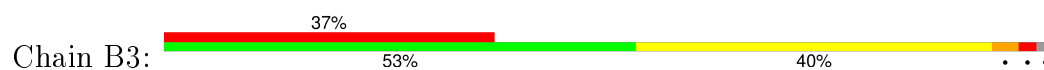
• Molecule 49: 50S ribosomal protein L29



• Molecule 49: 50S ribosomal protein L29

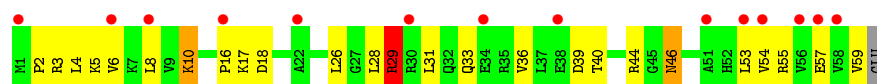


• Molecule 50: 50S ribosomal protein L30

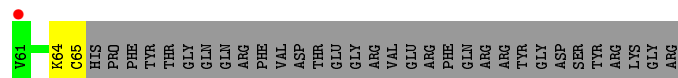
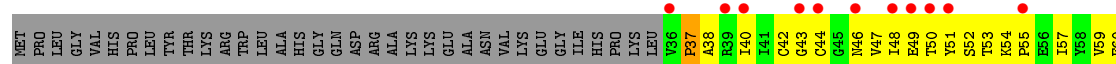


• Molecule 50: 50S ribosomal protein L30

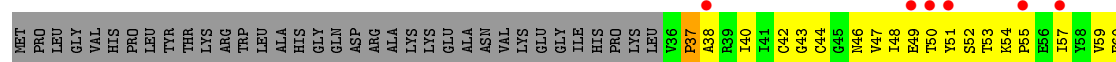




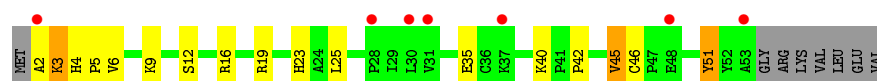
- Molecule 51: 50S ribosomal protein L31



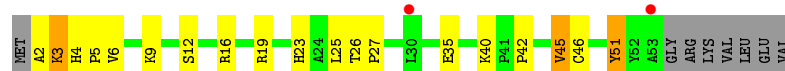
- Molecule 51: 50S ribosomal protein L31



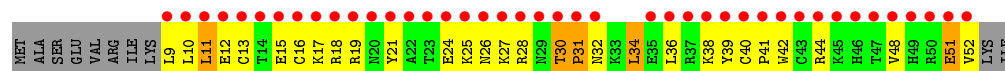
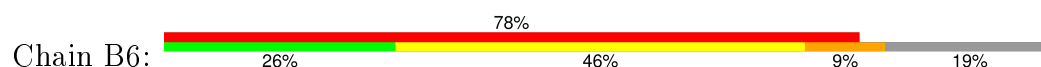
- Molecule 52: 50S ribosomal protein L32



- Molecule 52: 50S ribosomal protein L32



- Molecule 53: 50S ribosomal protein L33

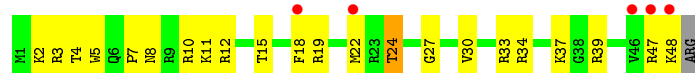


- Molecule 53: 50S ribosomal protein L33





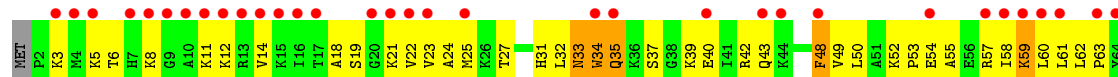
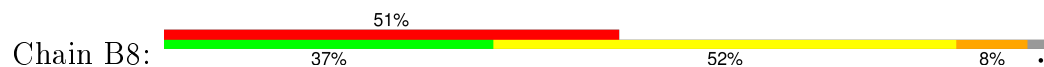
- Molecule 54: 50S ribosomal protein L34



- Molecule 54: 50S ribosomal protein L34

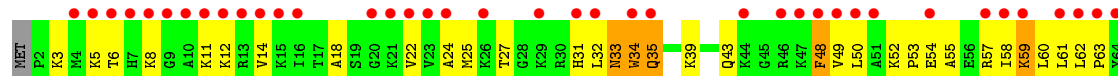


- Molecule 55: 50S ribosomal protein L35



GLU

- Molecule 55: 50S ribosomal protein L35



GLU

4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	210.13Å 454.39Å 616.45Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	49.90 – 3.21 87.17 – 3.20	Depositor EDS
% Data completeness (in resolution range)	95.1 (49.90-3.21) 95.1 (87.17-3.20)	Depositor EDS
R_{merge}	0.27	Depositor
R_{sym}	0.27	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.69 (at 3.19Å)	Xtriage
Refinement program	PHENIX (phenix.refine)	Depositor
R, R_{free}	0.292 , 0.319 0.292 , 0.322	Depositor DCC
R_{free} test set	8276 reflections (0.91%)	DCC
Wilson B-factor (Å ²)	54.0	Xtriage
Anisotropy	0.069	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.17 , 71.8	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.26$, $\langle L^2 \rangle = 0.11$	Xtriage
Outliers	0 of 952768 reflections	Xtriage
F_o, F_c correlation	0.82	EDS
Total number of atoms	299961	wwPDB-VP
Average B, all atoms (Å ²)	143.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.17% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	AA	0.42	0/36194	0.85	27/56493 (0.0%)
1	CA	0.41	0/36194	0.85	24/56493 (0.0%)
2	AY	0.42	0/1832	0.81	1/2855 (0.0%)
2	AZ	0.39	0/1832	0.80	0/2855
2	CY	0.43	0/1832	0.82	1/2855 (0.0%)
2	CZ	0.40	0/1832	0.80	0/2855
3	AV	0.43	0/291	0.81	0/452
3	CV	0.42	0/291	0.82	0/452
4	AB	0.21	0/1935	0.38	0/2609
4	CB	0.21	0/1935	0.38	0/2609
5	AC	0.21	0/1636	0.36	0/2205
5	CC	0.21	0/1636	0.36	0/2205
6	AD	0.22	0/1733	0.38	0/2318
6	CD	0.22	0/1733	0.37	0/2318
7	AE	0.22	0/1171	0.39	0/1576
7	CE	0.22	0/1171	0.39	0/1576
8	AF	0.22	0/856	0.39	0/1154
8	CF	0.23	0/856	0.40	0/1154
9	AG	0.21	0/1276	0.36	0/1709
9	CG	0.21	0/1276	0.36	0/1709
10	AH	0.22	0/1136	0.40	0/1527
10	CH	0.21	0/1136	0.40	0/1527
11	AI	0.21	0/1029	0.37	0/1378
11	CI	0.21	0/1029	0.37	0/1378
12	AJ	0.21	0/807	0.39	0/1085
12	CJ	0.21	0/807	0.39	0/1085
13	AK	0.21	0/900	0.39	0/1213
13	CK	0.22	0/900	0.39	0/1213
14	AL	0.23	0/986	0.42	0/1320
14	CL	0.23	0/986	0.42	0/1320
15	AM	0.19	0/943	0.39	0/1265
15	CM	0.19	0/943	0.39	0/1265

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
16	AN	0.22	0/501	0.36	0/664
16	CN	0.22	0/501	0.36	0/664
17	AO	0.22	0/745	0.36	0/992
17	CO	0.21	0/745	0.36	0/992
18	AP	0.22	0/716	0.40	0/963
18	CP	0.21	0/716	0.39	0/963
19	AQ	0.22	0/836	0.38	0/1117
19	CQ	0.23	0/836	0.38	0/1117
20	AR	0.22	0/579	0.39	0/768
20	CR	0.22	0/579	0.39	0/768
21	AS	0.21	0/642	0.38	0/865
21	CS	0.21	0/642	0.38	0/865
22	AT	0.22	0/764	0.36	0/1006
22	CT	0.21	0/764	0.36	0/1006
23	AU	0.20	0/212	0.36	0/277
23	CU	0.19	0/212	0.36	0/277
24	AX	0.23	0/2850	0.40	0/3829
24	CX	0.22	0/2850	0.40	0/3829
25	BA	0.44	0/69437	0.88	51/108401 (0.0%)
25	DA	0.44	0/69437	0.89	55/108401 (0.1%)
26	BB	0.41	0/2853	0.85	1/4451 (0.0%)
26	DB	0.41	0/2853	0.84	1/4451 (0.0%)
27	BD	0.25	0/2154	0.44	0/2905
27	DD	0.26	0/2154	0.44	0/2905
28	BE	0.24	0/1596	0.44	0/2153
28	DE	0.23	0/1596	0.44	0/2153
29	BF	0.23	0/1621	0.40	0/2194
29	DF	0.23	0/1621	0.40	0/2194
30	BG	0.21	0/1500	0.40	0/2017
30	DG	0.21	0/1500	0.40	0/2017
31	BH	0.20	0/1245	0.40	0/1682
31	DH	0.20	0/1245	0.40	0/1682
32	BI	0.21	0/1147	0.41	0/1552
32	DI	0.21	0/1147	0.41	0/1552
33	BJ	0.21	0/251	0.38	0/333
33	DJ	0.21	0/251	0.38	0/333
34	BN	0.22	0/1123	0.44	0/1515
34	DN	0.22	0/1123	0.44	0/1515
35	BO	0.25	0/942	0.42	0/1268
35	DO	0.24	0/942	0.42	0/1268
36	BP	0.24	0/1131	0.45	0/1504
36	DP	0.24	0/1131	0.46	0/1504
37	BQ	0.24	0/1099	0.44	0/1468

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
37	DQ	0.24	0/1099	0.44	0/1468
38	BR	0.23	0/974	0.45	1/1302 (0.1%)
38	DR	0.22	0/974	0.41	0/1302
39	BS	0.21	0/778	0.38	0/1036
39	DS	0.21	0/778	0.38	0/1036
40	BT	0.23	0/1157	0.40	0/1544
40	DT	0.22	0/1157	0.39	0/1544
41	BU	0.26	0/982	0.41	0/1306
41	DU	0.28	0/982	0.42	0/1306
42	BV	0.23	0/790	0.40	0/1057
42	DV	0.23	0/790	0.40	0/1057
43	BW	0.23	0/901	0.40	0/1209
43	DW	0.24	0/901	0.39	0/1209
44	BX	0.24	0/739	0.41	0/993
44	DX	0.24	0/739	0.41	0/993
45	BY	0.24	0/788	0.44	0/1051
45	DY	0.24	0/788	0.43	0/1051
46	BZ	0.22	0/1523	0.42	0/2068
46	DZ	0.22	0/1523	0.42	0/2068
47	B0	0.22	0/613	0.39	0/816
47	D0	0.22	0/613	0.39	0/816
48	B1	0.25	0/701	0.47	0/932
48	D1	0.25	0/701	0.47	0/932
49	B2	0.24	0/607	0.48	0/803
49	D2	0.24	0/607	0.48	0/803
50	B3	0.22	0/472	0.40	0/634
50	D3	0.22	0/472	0.40	0/634
51	B4	0.20	0/228	0.41	0/309
51	D4	0.21	0/228	0.41	0/309
52	B5	0.22	0/418	0.43	0/567
52	D5	0.22	0/418	0.43	0/567
53	B6	0.23	0/387	0.43	0/518
53	D6	0.23	0/387	0.43	0/518
54	B7	0.23	0/426	0.41	0/561
54	D7	0.25	0/426	0.41	0/561
55	B8	0.24	0/515	0.41	0/679
55	D8	0.24	0/515	0.41	0/679
All	All	0.38	0/323000	0.77	162/482646 (0.0%)

There are no bond length outliers.

All (162) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	DA	1379	A	C1'-O4'-C4'	-11.90	100.38	109.90
25	BA	1379	A	C1'-O4'-C4'	-11.49	100.71	109.90
25	DA	1091	G	P-O3'-C3'	10.71	132.56	119.70
25	BA	1091	G	P-O3'-C3'	10.65	132.48	119.70
25	DA	1786	A	C1'-O4'-C4'	-9.82	102.04	109.90
25	BA	1786	A	C1'-O4'-C4'	-9.75	102.10	109.90
25	BA	1786	A	C3'-C2'-C1'	-8.72	94.53	101.50
25	DA	1786	A	C3'-C2'-C1'	-8.49	94.70	101.50
25	DA	1071	G	P-O3'-C3'	-8.41	109.61	119.70
25	BA	1071	G	P-O3'-C3'	-8.37	109.65	119.70
25	BA	1913	A	C1'-O4'-C4'	-8.10	103.42	109.90
25	DA	1069	A	P-O3'-C3'	8.08	129.39	119.70
25	BA	1069	A	P-O3'-C3'	8.03	129.34	119.70
25	BA	1786	A	O4'-C1'-N9	8.02	114.61	108.20
25	DA	1786	A	O4'-C1'-N9	7.79	114.43	108.20
25	BA	1098	A	P-O3'-C3'	-7.75	110.40	119.70
25	DA	1098	A	P-O3'-C3'	-7.72	110.43	119.70
25	DA	1913	A	C1'-O4'-C4'	-7.67	103.76	109.90
25	DA	1022	G	P-O3'-C3'	7.57	128.79	119.70
25	DA	2603	G	C4'-C3'-C2'	-7.50	95.10	102.60
25	DA	1558	A	P-O3'-C3'	7.35	128.52	119.70
25	BA	1558	A	P-O3'-C3'	7.26	128.41	119.70
25	BA	1022	G	P-O3'-C3'	7.25	128.40	119.70
25	BA	2603	G	C4'-C3'-C2'	-7.25	95.36	102.60
1	CA	115	G	P-O3'-C3'	7.11	128.23	119.70
1	AA	115	G	P-O3'-C3'	7.06	128.17	119.70
25	DA	1266	G	C3'-C2'-C1'	-7.02	95.89	101.50
1	AA	1300	G	P-O3'-C3'	6.98	128.08	119.70
25	DA	2603	G	C1'-O4'-C4'	-6.85	104.42	109.90
1	CA	1498	U	P-O3'-C3'	6.77	127.83	119.70
1	AA	1201	A	P-O3'-C3'	6.72	127.77	119.70
25	BA	1069	A	O4'-C1'-N9	6.71	113.56	108.20
25	DA	1069	A	O4'-C1'-N9	6.70	113.56	108.20
1	CA	1201	A	P-O3'-C3'	6.66	127.69	119.70
1	CA	1300	G	P-O3'-C3'	6.62	127.65	119.70
25	BA	221	A	P-O3'-C3'	6.59	127.61	119.70
25	DA	512	G	C1'-O4'-C4'	-6.57	104.64	109.90
1	AA	1285	A	P-O3'-C3'	6.57	127.58	119.70
25	BA	1365	A	C4'-C3'-C2'	-6.56	96.04	102.60
25	BA	1266	G	C3'-C2'-C1'	-6.56	96.25	101.50
25	DA	221	A	P-O3'-C3'	6.55	127.56	119.70
25	DA	945	A	C1'-O4'-C4'	-6.51	104.69	109.90
25	BA	1300	U	P-O3'-C3'	6.51	127.51	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	DA	1300	U	P-O3'-C3'	6.50	127.50	119.70
1	AA	1498	U	P-O3'-C3'	6.49	127.49	119.70
25	BA	2603	G	C1'-O4'-C4'	-6.49	104.70	109.90
1	CA	1064	G	P-O3'-C3'	6.49	127.49	119.70
25	DA	676	A	C1'-O4'-C4'	-6.49	104.71	109.90
25	BA	512	G	C1'-O4'-C4'	-6.45	104.74	109.90
1	CA	1285	A	P-O3'-C3'	6.43	127.42	119.70
25	BA	676	A	C1'-O4'-C4'	-6.38	104.80	109.90
25	BA	945	A	C1'-O4'-C4'	-6.37	104.80	109.90
25	DA	1937	A	P-O3'-C3'	6.33	127.29	119.70
1	AA	1064	G	P-O3'-C3'	6.28	127.24	119.70
25	DA	2603	G	O4'-C1'-N9	6.27	113.22	108.20
25	DA	1786	A	O4'-C1'-C2'	-6.16	99.64	105.80
1	CA	855	G	C4'-C3'-C2'	-6.15	96.45	102.60
1	AA	855	G	C4'-C3'-C2'	-6.05	96.55	102.60
25	BA	2346	A	C1'-O4'-C4'	-6.04	105.06	109.90
25	DA	2422	A	P-O3'-C3'	6.03	126.94	119.70
25	DA	1365	A	C4'-C3'-C2'	-5.97	96.62	102.60
1	AA	438	G	P-O3'-C3'	5.93	126.82	119.70
25	BA	1937	A	P-O3'-C3'	5.92	126.81	119.70
25	BA	2422	A	P-O3'-C3'	5.89	126.77	119.70
1	CA	1065	U	P-O3'-C3'	5.87	126.74	119.70
25	BA	205	G	C3'-C2'-C1'	-5.87	96.81	101.50
25	DA	2346	A	C1'-O4'-C4'	-5.84	105.23	109.90
1	CA	438	G	P-O3'-C3'	5.84	126.70	119.70
1	CA	1504	G	P-O3'-C3'	5.80	126.66	119.70
25	DA	1698	A	C3'-C2'-C1'	-5.71	96.93	101.50
1	AA	266	G	P-O3'-C3'	5.70	126.54	119.70
25	BA	387	U	C3'-C2'-C1'	-5.69	96.95	101.50
25	DA	205	G	C3'-C2'-C1'	-5.67	96.96	101.50
1	AA	51	A	C3'-C2'-C1'	-5.66	96.97	101.50
25	BA	1786	A	O4'-C1'-C2'	-5.66	100.14	105.80
1	CA	266	G	P-O3'-C3'	5.66	126.49	119.70
1	AA	250	A	P-O3'-C3'	5.63	126.46	119.70
25	DA	616	A	P-O3'-C3'	5.62	126.45	119.70
25	DA	1913	A	O4'-C1'-N9	5.62	112.69	108.20
25	BA	1241	A	C1'-O4'-C4'	-5.60	105.42	109.90
1	CA	428	G	P-O3'-C3'	5.60	126.42	119.70
1	AA	1145	C	P-O3'-C3'	5.56	126.37	119.70
25	BA	1195	G	C4'-C3'-C2'	-5.56	97.04	102.60
1	AA	366	C	P-O3'-C3'	5.55	126.36	119.70
1	CA	366	C	P-O3'-C3'	5.54	126.35	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	428	G	P-O3'-C3'	5.54	126.34	119.70
1	AA	30	U	P-O3'-C3'	5.52	126.33	119.70
1	CA	533	A	P-O3'-C3'	5.50	126.31	119.70
1	CA	250	A	P-O3'-C3'	5.50	126.30	119.70
1	AA	1065	U	P-O3'-C3'	5.49	126.28	119.70
25	BA	2225	A	P-O3'-C3'	5.48	126.28	119.70
25	DA	2225	A	P-O3'-C3'	5.47	126.26	119.70
25	BA	2092	U	P-O3'-C3'	-5.46	113.15	119.70
25	DA	387	U	C3'-C2'-C1'	-5.44	97.15	101.50
25	BA	1698	A	C3'-C2'-C1'	-5.43	97.15	101.50
25	BA	2603	G	O4'-C1'-N9	5.43	112.55	108.20
25	DA	283	A	P-O3'-C3'	5.43	126.22	119.70
25	DA	1195	G	C4'-C3'-C2'	-5.42	97.18	102.60
25	DA	1241	A	C1'-O4'-C4'	-5.41	105.57	109.90
1	CA	1145	C	P-O3'-C3'	5.40	126.18	119.70
25	BA	1913	A	O4'-C1'-N9	5.37	112.49	108.20
25	BA	332	A	P-O3'-C3'	5.36	126.13	119.70
1	AA	498	A	C3'-C2'-C1'	-5.33	97.24	101.50
1	AA	1504	G	P-O3'-C3'	5.33	126.09	119.70
25	DA	1204	A	C3'-C2'-C1'	-5.33	97.24	101.50
25	BA	283	A	P-O3'-C3'	5.32	126.08	119.70
1	CA	748	C	P-O3'-C3'	5.31	126.08	119.70
25	DA	332	A	P-O3'-C3'	5.30	126.07	119.70
25	BA	974(B)	C	C3'-C2'-C1'	-5.29	97.27	101.50
1	CA	1067	A	P-O3'-C3'	5.28	126.04	119.70
25	DA	401	A	C1'-O4'-C4'	-5.28	105.68	109.90
25	DA	128	C	P-O3'-C3'	-5.27	113.38	119.70
25	BA	2346	A	C3'-C2'-C1'	-5.25	97.30	101.50
25	BA	1211	U	C1'-O4'-C4'	-5.25	105.70	109.90
1	AA	748	C	P-O3'-C3'	5.23	125.98	119.70
2	AY	21	A	C3'-C2'-C1'	5.23	105.69	101.50
1	CA	498	A	C3'-C2'-C1'	-5.23	97.31	101.50
25	DA	1970	A	C1'-O4'-C4'	-5.23	105.72	109.90
1	CA	328	C	P-O3'-C3'	5.22	125.97	119.70
25	BA	401	A	C1'-O4'-C4'	-5.21	105.73	109.90
25	BA	627	A	C3'-C2'-C1'	-5.21	97.33	101.50
1	CA	30	U	P-O3'-C3'	5.21	125.95	119.70
25	BA	1494	A	P-O3'-C3'	5.20	125.94	119.70
25	DA	907	U	C4'-C3'-C2'	-5.20	97.40	102.60
25	BA	1204	A	C3'-C2'-C1'	-5.19	97.35	101.50
1	CA	246	A	C1'-O4'-C4'	-5.19	105.75	109.90
25	DA	317	G	C4'-C3'-C2'	-5.18	97.42	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	533	A	P-O3'-C3'	5.18	125.91	119.70
25	BA	1970	A	C1'-O4'-C4'	-5.17	105.76	109.90
25	DA	562	U	C3'-C2'-C1'	5.17	105.64	101.50
25	DA	2609	U	C3'-C2'-C1'	-5.17	97.36	101.50
1	AA	246	A	C1'-O4'-C4'	-5.17	105.77	109.90
25	DA	627	A	C3'-C2'-C1'	-5.16	97.37	101.50
1	CA	51	A	C3'-C2'-C1'	-5.16	97.37	101.50
25	DA	1098	A	OP1-P-O3'	5.15	116.53	105.20
25	BA	1098	A	OP1-P-O3'	5.14	116.51	105.20
1	AA	533	A	C3'-C2'-C1'	5.13	105.60	101.50
1	AA	1067	A	P-O3'-C3'	5.12	125.85	119.70
25	DA	1494	A	P-O3'-C3'	5.12	125.85	119.70
25	BA	616	A	P-O3'-C3'	5.10	125.82	119.70
25	DA	1378	A	P-O3'-C3'	5.10	125.82	119.70
2	CY	21	A	C3'-C2'-C1'	5.09	105.58	101.50
25	DA	974(B)	C	C3'-C2'-C1'	-5.09	97.42	101.50
25	DA	1071	G	N9-C1'-C2'	-5.09	106.40	112.00
25	BA	317	G	C4'-C3'-C2'	-5.09	97.51	102.60
25	DA	2595	G	C4'-C3'-C2'	-5.08	97.52	102.60
1	AA	1067	A	C3'-C2'-C1'	5.08	105.57	101.50
26	DB	84	C	C4'-C3'-C2'	-5.08	97.53	102.60
25	DA	2092	U	P-O3'-C3'	5.07	125.79	119.70
25	DA	2035	G	C1'-O4'-C4'	-5.07	105.85	109.90
25	BA	72	U	C3'-C2'-C1'	-5.06	97.45	101.50
1	AA	913	A	P-O3'-C3'	5.05	125.76	119.70
1	AA	60	A	P-O3'-C3'	5.04	125.75	119.70
25	DA	2346	A	C3'-C2'-C1'	-5.03	97.47	101.50
25	BA	1071	G	N9-C1'-C2'	-5.02	106.47	112.00
26	BB	84	C	C4'-C3'-C2'	-5.02	97.58	102.60
25	DA	1617	C	C4'-C3'-C2'	-5.02	97.58	102.60
38	BR	2	ARG	NE-CZ-NH1	-5.02	117.79	120.30
25	BA	1742	C	C4'-C3'-C2'	-5.01	97.59	102.60
1	CA	60	A	P-O3'-C3'	5.01	125.72	119.70
1	AA	328	C	P-O3'-C3'	5.01	125.71	119.70
25	BA	74	A	P-O3'-C3'	5.00	125.70	119.70

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts ⓘ

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AA	32332	0	16318	788	0
1	CA	32332	0	16318	782	0
2	AY	1640	0	837	31	0
2	AZ	1640	0	837	34	0
2	CY	1640	0	837	32	0
2	CZ	1640	0	837	32	0
3	AV	258	0	132	4	0
3	CV	258	0	132	6	0
4	AB	1900	0	1951	109	0
4	CB	1900	0	1951	109	0
5	AC	1612	0	1677	92	0
5	CC	1612	0	1677	88	0
6	AD	1703	0	1765	74	0
6	CD	1703	0	1765	72	0
7	AE	1155	0	1213	74	0
7	CE	1155	0	1213	70	0
8	AF	843	0	857	44	0
8	CF	843	0	857	45	0
9	AG	1257	0	1296	64	0
9	CG	1257	0	1296	59	0
10	AH	1116	0	1177	64	0
10	CH	1116	0	1177	62	0
11	AI	1011	0	1043	62	0
11	CI	1011	0	1043	60	0
12	AJ	794	0	840	61	0
12	CJ	794	0	840	61	0
13	AK	885	0	904	60	0
13	CK	885	0	904	55	0
14	AL	970	0	1057	74	0
14	CL	970	0	1057	78	0
15	AM	933	0	992	55	0
15	CM	933	0	992	56	0
16	AN	492	0	531	42	0
16	CN	492	0	532	40	0
17	AO	734	0	771	33	0
17	CO	734	0	771	31	0
18	AP	700	0	720	36	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
18	CP	700	0	720	36	0
19	AQ	823	0	893	44	0
19	CQ	823	0	893	43	0
20	AR	574	0	644	28	0
20	CR	574	0	644	27	0
21	AS	629	0	652	61	0
21	CS	629	0	652	59	0
22	AT	762	0	859	39	0
22	CT	762	0	859	40	0
23	AU	208	0	221	8	0
23	CU	208	0	221	7	0
24	AX	2813	0	2823	159	0
24	CX	2813	0	2823	155	0
25	BA	61997	0	31250	1569	0
25	DA	61997	0	31250	1579	0
26	BB	2551	0	1295	54	0
26	DB	2551	0	1295	58	0
27	BD	2104	0	2182	166	0
27	DD	2104	0	2182	170	0
28	BE	1563	0	1629	110	0
28	DE	1563	0	1629	111	0
29	BF	1586	0	1632	128	0
29	DF	1586	0	1632	124	0
30	BG	1475	0	1537	115	0
30	DG	1475	0	1537	114	0
31	BH	1222	0	1282	59	0
31	DH	1222	0	1282	58	0
32	BI	1132	0	1220	60	0
32	DI	1132	0	1220	57	0
33	BJ	253	0	275	8	0
33	DJ	253	0	275	10	0
34	BN	1096	0	1168	83	0
34	DN	1096	0	1168	85	0
35	BO	932	0	994	52	0
35	DO	932	0	994	56	0
36	BP	1114	0	1187	148	0
36	DP	1114	0	1187	150	0
37	BQ	1079	0	1127	85	0
37	DQ	1079	0	1127	89	0
38	BR	960	0	1021	60	0
38	DR	960	0	1021	57	0
39	BS	770	0	832	57	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
39	DS	770	0	832	57	0
40	BT	1143	0	1211	77	0
40	DT	1143	0	1211	82	0
41	BU	964	0	1022	84	0
41	DU	964	0	1022	80	0
42	BV	779	0	852	57	0
42	DV	779	0	852	57	0
43	BW	890	0	951	51	0
43	DW	890	0	951	55	0
44	BX	725	0	778	68	0
44	DX	725	0	778	68	0
45	BY	775	0	870	76	0
45	DY	775	0	870	71	0
46	BZ	1491	0	1513	79	0
46	DZ	1491	0	1513	83	0
47	B0	605	0	628	31	0
47	D0	605	0	628	34	0
48	B1	694	0	764	64	0
48	D1	694	0	764	66	0
49	B2	605	0	665	61	0
49	D2	605	0	665	62	0
50	B3	467	0	523	20	0
50	D3	467	0	523	18	0
51	B4	225	0	225	18	0
51	D4	225	0	225	20	0
52	B5	404	0	420	27	0
52	D5	404	0	420	28	0
53	B6	380	0	391	32	0
53	D6	380	0	391	28	0
54	B7	418	0	467	18	0
54	D7	418	0	467	17	0
55	B8	507	0	576	39	0
55	D8	507	0	576	38	0
56	AA	310	0	0	0	0
56	AB	2	0	0	0	0
56	AC	6	0	0	0	0
56	AD	8	0	0	0	0
56	AE	1	0	0	0	0
56	AF	2	0	0	0	0
56	AG	1	0	0	0	0
56	AH	2	0	0	0	0
56	AI	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
56	AJ	1	0	0	0	0
56	AK	1	0	0	0	0
56	AL	2	0	0	0	0
56	AM	1	0	0	0	0
56	AO	3	0	0	0	0
56	AP	1	0	0	0	0
56	AQ	1	0	0	0	0
56	AV	1	0	0	0	0
56	AX	6	0	0	0	0
56	AY	25	0	0	0	0
56	AZ	6	0	0	0	0
56	B1	2	0	0	0	0
56	B2	3	0	0	0	0
56	B5	1	0	0	0	0
56	B7	3	0	0	0	0
56	BA	806	0	0	0	0
56	BB	26	0	0	0	0
56	BD	2	0	0	0	0
56	BE	1	0	0	0	0
56	BF	5	0	0	0	0
56	BG	3	0	0	0	0
56	BH	2	0	0	0	0
56	BI	3	0	0	0	0
56	BJ	1	0	0	0	0
56	BN	2	0	0	0	0
56	BO	3	0	0	0	0
56	BP	1	0	0	0	0
56	BQ	3	0	0	0	0
56	BR	3	0	0	0	0
56	BT	2	0	0	0	0
56	BU	1	0	0	0	0
56	BV	1	0	0	0	0
56	BW	2	0	0	0	0
56	BY	1	0	0	0	0
56	BZ	1	0	0	0	0
56	CA	414	0	0	0	0
56	CB	2	0	0	0	0
56	CC	7	0	0	0	0
56	CD	2	0	0	0	0
56	CE	1	0	0	0	0
56	CF	1	0	0	0	0
56	CG	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
56	CH	1	0	0	0	0
56	CI	2	0	0	0	0
56	CJ	1	0	0	0	0
56	CK	2	0	0	0	0
56	CL	1	0	0	0	0
56	CO	2	0	0	0	0
56	CP	1	0	0	0	0
56	CV	4	0	0	0	0
56	CX	9	0	0	0	0
56	CY	21	0	0	0	0
56	CZ	19	0	0	0	0
56	D2	2	0	0	0	0
56	D3	1	0	0	0	0
56	D4	3	0	0	0	0
56	D5	1	0	0	0	0
56	D7	2	0	0	0	0
56	D8	1	0	0	0	0
56	DA	758	0	0	0	0
56	DB	28	0	0	0	0
56	DD	1	0	0	0	0
56	DF	1	0	0	0	0
56	DG	1	0	0	0	0
56	DH	4	0	0	0	0
56	DI	2	0	0	0	0
56	DN	1	0	0	0	0
56	DO	2	0	0	0	0
56	DP	6	0	0	0	0
56	DQ	1	0	0	0	0
56	DR	1	0	0	0	0
56	DT	1	0	0	0	0
56	DV	1	0	0	0	0
56	DW	3	0	0	0	0
56	DX	1	0	0	0	0
56	DZ	4	0	0	0	0
57	AD	1	0	0	0	0
57	AN	1	0	0	0	0
57	CD	1	0	0	0	0
57	CN	1	0	0	0	0
All	All	299961	0	202995	10201	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 20.

All (10201) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DF:40:GLN:HE22	29:DF:182:ASN:HB2	1.10	1.14
37:DQ:23:GLY:HA3	37:DQ:98:LYS:HG3	1.31	1.13
37:BQ:23:GLY:HA3	37:BQ:98:LYS:HG3	1.31	1.12
29:BF:40:GLN:HE22	29:BF:182:ASN:HB2	1.10	1.07
37:BQ:14:ARG:HG2	37:BQ:14:ARG:HH11	1.20	1.06
37:DQ:14:ARG:HH11	37:DQ:14:ARG:HG2	1.20	1.06
27:DD:242:ARG:HE	25:DA:1826:G:H4'	1.23	1.04
11:CI:19:LEU:HD21	11:CI:59:PHE:HB3	1.44	1.00
37:DQ:55:VAL:HG12	37:DQ:64:ILE:HD12	1.41	0.99
11:AI:19:LEU:HD21	11:AI:59:PHE:HB3	1.44	0.98
49:D2:39:ALA:HA	49:D2:45:SER:HB3	1.44	0.98
28:DE:119:ARG:HH11	28:DE:119:ARG:HG3	1.29	0.98
9:CG:113:GLU:HB2	9:CG:119:ARG:HG2	1.46	0.97
25:BA:1813:G:H1'	27:BD:50:THR:HG21	1.46	0.97
48:D1:19:GLN:HE21	48:D1:41:ARG:HB2	1.30	0.97
27:DD:50:THR:HG21	25:DA:1813:G:H1'	1.47	0.97
45:DY:75:ILE:HG13	45:DY:80:GLY:H	1.29	0.97
28:BE:119:ARG:HH11	28:BE:119:ARG:HG3	1.28	0.97
44:DX:11:PRO:HA	44:DX:28:PHE:HB3	1.46	0.96
25:DA:1899:G:H21	25:DA:1902:C:H42	0.97	0.96
42:BV:4:ILE:HB	42:BV:39:LEU:HB2	1.48	0.96
25:BA:1826:G:H4'	27:BD:242:ARG:HE	1.24	0.96
49:B2:39:ALA:HA	49:B2:45:SER:HB3	1.44	0.96
45:BY:75:ILE:HG13	45:BY:80:GLY:H	1.28	0.96
36:DP:128:HIS:HA	36:DP:147:LEU:HB3	1.48	0.95
44:BX:11:PRO:HA	44:BX:28:PHE:HB3	1.46	0.95
25:DA:1541:U:H3'	25:DA:1542:G:H3'	1.49	0.94
49:D2:16:LEU:HB2	49:D2:20:GLU:HG2	1.49	0.94
45:DY:90:LEU:HG	45:DY:91:GLU:HG2	1.49	0.94
5:CC:30:ARG:HD3	16:CN:38:GLY:HA3	1.50	0.94
36:BP:128:HIS:HA	36:BP:147:LEU:HB3	1.48	0.94
48:B1:19:GLN:HE21	48:B1:41:ARG:HB2	1.30	0.94
1:AA:1128:C:H1'	1:AA:1146:A:H61	1.33	0.94
9:AG:113:GLU:HB2	9:AG:119:ARG:HG2	1.46	0.93
48:D1:45:ASN:HD21	48:D1:47:GLN:HE21	1.14	0.93
37:BQ:55:VAL:HG12	37:BQ:64:ILE:HD12	1.50	0.93
25:BA:1541:U:H3'	25:BA:1542:G:H3'	1.48	0.93
52:D5:2:ALA:HA	25:DA:2015:A:H1'	1.51	0.93
45:BY:90:LEU:HG	45:BY:91:GLU:HG2	1.51	0.93
42:DV:4:ILE:HB	42:DV:39:LEU:HB2	1.48	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:B2:16:LEU:HB2	49:B2:20:GLU:HG2	1.49	0.92
4:AB:185:ILE:HG22	4:AB:199:TYR:HB2	1.51	0.92
25:BA:2781:A:H5'	25:BA:2782:G:H5'	1.50	0.92
5:AC:30:ARG:HD3	16:AN:38:GLY:HA3	1.49	0.92
39:BS:24:LEU:HD12	39:BS:84:GLN:HB3	1.52	0.92
48:B1:45:ASN:HD21	48:B1:47:GLN:HE21	1.16	0.92
6:CD:189:PRO:HB2	6:CD:194:LEU:HD21	1.51	0.92
25:BA:273(G):C:H3'	25:BA:274:G:H5''	1.52	0.91
4:CB:185:ILE:HG22	4:CB:199:TYR:HB2	1.52	0.91
25:DA:273(G):C:H3'	25:DA:274:G:H5''	1.52	0.91
1:CA:1128:C:H1'	1:CA:1146:A:H61	1.33	0.91
48:B1:11:ARG:HB3	48:B1:12:PRO:HD2	1.51	0.91
13:CK:22:HIS:HB3	13:CK:29:ILE:HG13	1.52	0.91
48:D1:11:ARG:HB3	48:D1:12:PRO:HD2	1.50	0.91
25:DA:2426:A:H3'	25:DA:2427:C:H5''	1.52	0.90
25:BA:1899:G:H21	25:BA:1902:C:H42	0.97	0.90
25:BA:2015:A:H1'	52:B5:2:ALA:HA	1.51	0.90
29:DF:89:VAL:HG11	25:DA:586:A:H5'	1.54	0.90
25:BA:2426:A:H3'	25:BA:2427:C:H5''	1.50	0.90
6:AD:189:PRO:HB2	6:AD:194:LEU:HD21	1.51	0.90
6:AD:108:LEU:HD21	6:AD:183:GLY:HA3	1.53	0.90
6:CD:108:LEU:HD21	6:CD:183:GLY:HA3	1.54	0.90
25:DA:2781:A:H5'	25:DA:2782:G:H5'	1.51	0.89
46:DZ:77:ASP:HB2	46:DZ:84:GLU:HG3	1.54	0.89
50:B3:8:LEU:HA	50:B3:54:VAL:HG12	1.54	0.89
1:CA:1056:U:H5''	5:CC:163:ALA:HB2	1.54	0.89
1:AA:1056:U:H5''	5:AC:163:ALA:HB2	1.55	0.89
25:BA:142:G:H4'	44:BX:35:THR:HG21	1.55	0.89
41:BU:50:ARG:HH22	42:BV:72:VAL:HG12	1.38	0.89
7:AE:78:HIS:HE1	7:AE:143:ARG:H	1.21	0.89
45:DY:2:ARG:HE	25:DA:106:C:H1'	1.38	0.89
36:DP:126:VAL:HA	36:DP:145:PRO:HB2	1.55	0.89
25:BA:586:A:H5'	29:BF:89:VAL:HG11	1.53	0.88
37:DQ:30:GLY:HA2	37:DQ:107:ALA:HB2	1.56	0.88
39:DS:24:LEU:HD12	39:DS:84:GLN:HB3	1.52	0.88
5:CC:150:LYS:HB3	5:CC:201:TYR:HB2	1.55	0.88
47:D0:23:VAL:HG21	25:DA:857:C:H4'	1.56	0.88
13:AK:22:HIS:HB3	13:AK:29:ILE:HG13	1.52	0.88
37:BQ:43:THR:HB	37:BQ:45:GLN:HE21	1.39	0.88
29:BF:63:LYS:HZ1	29:BF:67:GLN:HE21	1.22	0.88
37:DQ:43:THR:HB	37:DQ:45:GLN:HE21	1.39	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BQ:30:GLY:HA2	37:BQ:107:ALA:HB2	1.56	0.87
29:DF:63:LYS:HZ1	29:DF:67:GLN:HE21	1.22	0.87
1:AA:922:G:H4'	7:AE:20:GLN:HA	1.54	0.87
1:CA:922:G:H4'	7:CE:20:GLN:HA	1.53	0.87
41:BU:88:ILE:HB	41:BU:90:VAL:HG12	1.56	0.87
10:CH:51:VAL:HG12	10:CH:52:ASP:H	1.39	0.87
50:D3:8:LEU:HA	50:D3:54:VAL:HG12	1.54	0.87
25:BA:106:C:H1'	45:BY:2:ARG:HE	1.39	0.87
29:DF:139:PHE:HB2	29:DF:166:ALA:HB1	1.55	0.87
25:DA:2777:G:H5''	25:DA:2778:A:H5'	1.56	0.87
25:DA:1899:G:N2	25:DA:1902:C:H42	1.73	0.87
41:DU:50:ARG:HH22	42:DV:72:VAL:HG12	1.37	0.87
25:BA:1899:G:N2	25:BA:1902:C:H42	1.72	0.87
41:DU:88:ILE:HB	41:DU:90:VAL:HG12	1.56	0.86
25:DA:1378:A:O2'	25:DA:1379:A:H5''	1.75	0.86
21:AS:6:LYS:HG2	21:AS:7:LYS:HD3	1.57	0.86
25:BA:1378:A:O2'	25:BA:1379:A:H5''	1.76	0.86
1:AA:522:C:H41	14:AL:52:ARG:HH22	1.23	0.86
1:AA:1427:U:H2'	1:AA:1428:A:H8	1.39	0.86
36:BP:126:VAL:HA	36:BP:145:PRO:HB2	1.55	0.86
18:AP:28:ARG:HG2	18:AP:28:ARG:HH11	1.41	0.86
10:AH:51:VAL:HG12	10:AH:52:ASP:H	1.39	0.86
25:BA:857:C:H4'	47:B0:23:VAL:HG21	1.56	0.86
44:DX:35:THR:HG21	25:DA:142:G:H4'	1.54	0.86
46:BZ:77:ASP:HB2	46:BZ:84:GLU:HG3	1.55	0.86
21:CS:6:LYS:HG2	21:CS:7:LYS:HD3	1.56	0.86
32:BI:92:VAL:HG13	32:BI:120:ILE:HB	1.58	0.86
25:DA:1578:U:H2'	25:DA:1579:A:H5''	1.57	0.86
25:BA:1578:U:H2'	25:BA:1579:A:H5''	1.58	0.85
49:D2:2:LYS:HA	49:D2:5:GLU:CD	1.97	0.85
25:BA:2777:G:H5''	25:BA:2778:A:H5'	1.56	0.85
4:CB:84:GLU:HB3	4:CB:219:VAL:HG21	1.58	0.85
5:AC:150:LYS:HB3	5:AC:201:TYR:HB2	1.55	0.85
1:CA:522:C:H41	14:CL:52:ARG:HH22	1.23	0.85
1:CA:1427:U:H2'	1:CA:1428:A:H8	1.40	0.85
7:CE:78:HIS:HE1	7:CE:143:ARG:H	1.21	0.85
4:AB:84:GLU:HB3	4:AB:219:VAL:HG21	1.59	0.85
24:AX:93:GLU:HG3	24:AX:96:LEU:HD12	1.59	0.85
24:CX:93:GLU:HG3	24:CX:96:LEU:HD12	1.59	0.85
29:BF:139:PHE:HB2	29:BF:166:ALA:HB1	1.55	0.84
45:DY:2:ARG:HG2	45:DY:3:VAL:HG23	1.58	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1075:C:H2'	25:DA:1076:C:C6	2.13	0.84
49:B2:2:LYS:HA	49:B2:5:GLU:CD	1.98	0.84
24:AX:93:GLU:HA	24:AX:96:LEU:HB3	1.59	0.84
25:BA:1075:C:H2'	25:BA:1076:C:C6	2.13	0.84
1:AA:1123:A:H4'	12:AJ:36:GLY:HA3	1.59	0.84
27:BD:8:PRO:HB3	27:BD:14:ARG:HB3	1.60	0.84
25:DA:140:A:H8	25:DA:1408:C:HO2'	1.23	0.84
30:BG:83:ARG:HG3	30:BG:84:LYS:H	1.43	0.84
29:DF:40:GLN:NE2	29:DF:182:ASN:HB2	1.91	0.84
12:CJ:45:ARG:HB2	12:CJ:65:LEU:HB3	1.59	0.84
32:DI:92:VAL:HG13	32:DI:120:ILE:HB	1.58	0.83
7:CE:76:ILE:HG12	7:CE:77:PRO:HD2	1.60	0.83
45:BY:96:ILE:HD11	45:BY:99:CYS:HB2	1.60	0.83
30:DG:83:ARG:HG3	30:DG:84:LYS:H	1.42	0.83
19:AQ:9:VAL:HG12	19:AQ:56:VAL:HG22	1.60	0.83
1:CA:979:C:H3'	1:CA:980:C:H5''	1.61	0.83
1:AA:979:C:H3'	1:AA:980:C:H5''	1.61	0.83
36:DP:59:LEU:HA	36:DP:61:ARG:NE	1.94	0.83
45:BY:2:ARG:HG2	45:BY:3:VAL:HG23	1.59	0.83
40:DT:62:THR:HG22	40:DT:75:ILE:HG13	1.60	0.83
30:DG:77:ILE:HG22	30:DG:80:PHE:H	1.43	0.83
25:DA:1348:G:H2'	25:DA:1349:A:H5''	1.61	0.83
17:AO:33:THR:HA	17:AO:63:ARG:HH12	1.43	0.83
25:BA:1899:G:H21	25:BA:1902:C:N4	1.75	0.83
7:AE:76:ILE:HG12	7:AE:77:PRO:HD2	1.61	0.83
25:DA:2681:C:H5	25:DA:2725:A:H62	1.24	0.82
27:DD:8:PRO:HB3	27:DD:14:ARG:HB3	1.60	0.82
2:AZ:71:C:H4'	25:BA:1851:U:H4'	1.59	0.82
17:CO:33:THR:HA	17:CO:63:ARG:HH12	1.44	0.82
29:BF:40:GLN:NE2	29:BF:182:ASN:HB2	1.91	0.82
45:BY:76:CYS:HB3	45:BY:77:PRO:HD2	1.62	0.82
36:BP:59:LEU:HA	36:BP:61:ARG:NE	1.94	0.82
19:CQ:9:VAL:HG12	19:CQ:56:VAL:HG22	1.60	0.82
1:CA:1123:A:H4'	12:CJ:36:GLY:HA3	1.59	0.82
5:AC:105:GLU:HG2	5:AC:106:VAL:H	1.44	0.82
25:DA:1899:G:H21	25:DA:1902:C:N4	1.76	0.82
12:AJ:45:ARG:HB2	12:AJ:65:LEU:HB3	1.58	0.82
18:CP:28:ARG:HH11	18:CP:28:ARG:HG2	1.43	0.82
51:D4:50:THR:HG22	51:D4:51:TYR:H	1.44	0.82
5:CC:105:GLU:HG2	5:CC:106:VAL:H	1.44	0.82
5:AC:47:LEU:HD21	5:AC:68:VAL:HG11	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:77:ILE:HG22	30:BG:80:PHE:H	1.43	0.82
4:AB:101:MET:HA	4:AB:108:ILE:HG13	1.62	0.82
25:BA:2681:C:H5	25:BA:2725:A:H62	1.24	0.82
25:DA:1028:A:H1'	25:DA:2487:G:H5'	1.62	0.82
40:BT:62:THR:HG22	40:BT:75:ILE:HG13	1.62	0.82
25:DA:1189:A:H3'	25:DA:1190:G:H5''	1.62	0.82
45:DY:96:ILE:HD11	45:DY:99:CYS:HB2	1.61	0.82
38:BR:104:ARG:HG2	38:BR:104:ARG:HH11	1.45	0.82
51:B4:50:THR:HG22	51:B4:51:TYR:H	1.44	0.81
24:CX:93:GLU:HA	24:CX:96:LEU:HB3	1.60	0.81
1:CA:1412:C:H2'	1:CA:1413:A:H8	1.45	0.81
5:AC:189:ALA:HB3	5:AC:196:LEU:HB3	1.63	0.81
40:DT:95:ARG:HH11	40:DT:95:ARG:HG3	1.45	0.81
25:BA:2478:A:H3'	25:BA:2479:G:H8	1.46	0.81
25:BA:273(G):C:H3'	25:BA:274:G:C5'	2.10	0.81
5:CC:47:LEU:HD21	5:CC:68:VAL:HG11	1.61	0.81
7:CE:6:PHE:HD2	7:CE:36:ASP:HB3	1.45	0.81
14:CL:56:LYS:HG2	14:CL:66:THR:HG22	1.62	0.81
45:BY:88:LYS:HE2	45:BY:93:GLY:HA3	1.63	0.81
5:CC:59:ARG:HG2	5:CC:64:VAL:HG22	1.63	0.81
41:DU:92:ARG:HB2	41:DU:92:ARG:HH11	1.46	0.81
25:DA:1794:U:H2'	25:DA:1795:C:H6	1.44	0.81
45:DY:88:LYS:HE2	45:DY:93:GLY:HA3	1.62	0.81
29:BF:170:LEU:HD12	29:BF:171:PRO:HD2	1.63	0.81
8:AF:99:ALA:HB2	20:AR:31:LEU:HD22	1.61	0.81
12:CJ:50:ILE:HA	12:CJ:60:ARG:HB2	1.63	0.81
25:DA:273(G):C:H3'	25:DA:274:G:C5'	2.11	0.80
1:CA:1220:G:H21	21:CS:54:GLY:HA2	1.46	0.80
39:DS:35:ILE:HG12	39:DS:101:LEU:HD21	1.63	0.80
12:AJ:50:ILE:HB	16:AN:41:ARG:HH21	1.45	0.80
25:BA:2056:G:H22	52:B5:4:HIS:HA	1.47	0.80
25:BA:1794:U:H2'	25:BA:1795:C:H6	1.44	0.80
14:AL:56:LYS:HG2	14:AL:66:THR:HG22	1.62	0.80
25:DA:141(A):A:H5''	25:DA:141(B):C:H5	1.45	0.80
7:AE:6:PHE:HD2	7:AE:36:ASP:HB3	1.45	0.80
4:CB:101:MET:HA	4:CB:108:ILE:HG13	1.61	0.80
40:DT:84:GLN:HG3	40:DT:85:LYS:HG3	1.64	0.80
36:DP:66:GLY:HA3	25:DA:2415:G:H4'	1.62	0.80
1:CA:922:G:H2'	1:CA:923:A:C8	2.17	0.80
29:BF:103:LYS:HA	29:BF:106:ARG:HG3	1.63	0.80
25:BA:1348:G:H2'	25:BA:1349:A:H5''	1.62	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:D2:21:LEU:HD22	49:D2:22:GLU:HG3	1.62	0.80
1:AA:1412:C:H2'	1:AA:1413:A:H8	1.46	0.80
1:AA:1412:C:H2'	1:AA:1413:A:C8	2.17	0.80
45:DY:76:CYS:CB	45:DY:77:PRO:HD2	2.12	0.80
25:BA:2415:G:H4'	36:BP:66:GLY:HA3	1.63	0.80
45:DY:76:CYS:HB3	45:DY:77:PRO:HD2	1.62	0.79
25:BA:1028:A:H1'	25:BA:2487:G:H5'	1.62	0.79
1:CA:1412:C:H2'	1:CA:1413:A:C8	2.17	0.79
1:AA:1220:G:H21	21:AS:54:GLY:HA2	1.46	0.79
40:BT:84:GLN:HG3	40:BT:85:LYS:HG3	1.65	0.79
27:DD:125:ILE:H	27:DD:125:ILE:HD12	1.47	0.79
13:CK:12:ARG:HG2	13:CK:13:GLN:H	1.47	0.79
25:DA:2478:A:H3'	25:DA:2479:G:H8	1.47	0.79
1:AA:922:G:H2'	1:AA:923:A:C8	2.17	0.79
39:BS:35:ILE:HG12	39:BS:101:LEU:HD21	1.63	0.79
31:BH:89:ILE:HG12	31:BH:162:ILE:HG22	1.63	0.79
25:BA:1050:A:H2'	25:BA:1051:G:C8	2.17	0.79
40:BT:95:ARG:HH11	40:BT:95:ARG:HG3	1.45	0.79
5:CC:189:ALA:HB3	5:CC:196:LEU:HB3	1.63	0.79
25:BA:1189:A:H3'	25:BA:1190:G:H5''	1.63	0.79
25:BA:1466:G:H2'	25:BA:1547:C:H41	1.48	0.79
8:CF:99:ALA:HB2	20:CR:31:LEU:HD22	1.63	0.79
5:AC:59:ARG:HG2	5:AC:64:VAL:HG22	1.63	0.79
1:CA:1117:G:H4'	11:CI:104:ARG:HH21	1.47	0.79
38:DR:104:ARG:HG2	38:DR:104:ARG:HH11	1.47	0.79
25:BA:942:G:H5'	36:BP:35:HIS:HB2	1.63	0.79
28:DE:84:PHE:CZ	28:DE:86:PRO:HG3	2.17	0.79
6:AD:188:LEU:HD12	6:AD:188:LEU:H	1.48	0.79
36:DP:146:VAL:HG22	36:DP:147:LEU:H	1.48	0.79
1:AA:244:U:H5'	1:AA:244:U:H6	1.47	0.79
28:BE:84:PHE:CZ	28:BE:86:PRO:HG3	2.18	0.79
25:BA:587:C:C4	36:BP:33:ARG:HG2	2.18	0.79
52:D5:4:HIS:HA	25:DA:2056:G:H22	1.47	0.79
7:CE:148:VAL:HG21	10:CH:107:LEU:HD22	1.65	0.79
49:B2:21:LEU:HD22	49:B2:22:GLU:HG3	1.65	0.79
7:AE:148:VAL:HG21	10:AH:107:LEU:HD22	1.64	0.78
31:DH:89:ILE:HG12	31:DH:162:ILE:HG22	1.63	0.78
1:AA:1432:G:OP1	40:BT:108:ARG:HG3	1.81	0.78
25:BA:141(A):A:H5''	25:BA:141(B):C:H5	1.46	0.78
36:DP:33:ARG:HG2	25:DA:587:C:C4	2.19	0.78
43:DW:84:ARG:HB2	43:DW:96:ILE:HG22	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:244:U:H6	1:CA:244:U:H5'	1.48	0.78
28:DE:52:LEU:H	28:DE:52:LEU:HD12	1.48	0.78
49:B2:36:ARG:HA	49:B2:39:ALA:HB3	1.65	0.78
45:BY:76:CYS:CB	45:BY:77:PRO:HD2	2.12	0.78
25:BA:2621:A:O2'	28:BE:159:HIS:HB3	1.84	0.78
1:AA:390:C:H2'	1:AA:391:G:C8	2.19	0.78
29:DF:103:LYS:HA	29:DF:106:ARG:HG3	1.64	0.78
28:BE:52:LEU:HD12	28:BE:52:LEU:H	1.48	0.78
48:D1:45:ASN:ND2	48:D1:47:GLN:HE21	1.81	0.78
1:CA:1427:U:H2'	1:CA:1428:A:C8	2.19	0.78
24:CX:141:GLU:HB3	24:CX:163:ARG:HB3	1.66	0.78
7:AE:78:HIS:CE1	7:AE:143:ARG:H	2.01	0.78
1:AA:1427:U:H2'	1:AA:1428:A:C8	2.18	0.78
7:CE:78:HIS:CE1	7:CE:143:ARG:H	2.01	0.78
25:BA:1651:G:H5''	38:BR:39:PRO:HG2	1.66	0.78
43:BW:84:ARG:HB2	43:BW:96:ILE:HG22	1.66	0.78
13:AK:12:ARG:HG2	13:AK:13:GLN:H	1.47	0.78
41:BU:92:ARG:HH11	41:BU:92:ARG:HB2	1.46	0.78
7:CE:50:GLU:HG3	7:CE:52:PRO:HD2	1.64	0.78
28:DE:159:HIS:HB3	25:DA:2621:A:O2'	1.84	0.78
25:DA:1102:C:H2'	25:DA:1103:A:C8	2.20	0.77
32:DI:5:LEU:H	32:DI:5:LEU:HD23	1.49	0.77
28:BE:119:ARG:NH1	28:BE:119:ARG:HG3	1.96	0.77
12:CJ:50:ILE:HB	16:CN:41:ARG:HH21	1.46	0.77
12:AJ:50:ILE:HA	12:AJ:60:ARG:HB2	1.65	0.77
25:BA:2415:G:H4'	36:BP:66:GLY:CA	2.14	0.77
24:AX:255:SER:HB3	24:AX:261:ASN:HD21	1.49	0.77
25:BA:2030:A:H4'	25:BA:2031:A:H8	1.49	0.77
24:CX:237:SER:HB3	24:CX:258:GLN:HB2	1.66	0.77
25:DA:695:G:OP1	25:DA:1380:G:H4'	1.85	0.77
25:BA:1841:U:H1'	27:BD:244:ARG:HH22	1.50	0.77
15:AM:9:ILE:HG22	15:AM:11:ARG:HG3	1.67	0.77
31:DH:101:ARG:HE	31:DH:101:ARG:H	1.32	0.77
25:DA:2030:A:H4'	25:DA:2031:A:H8	1.49	0.77
32:BI:5:LEU:H	32:BI:5:LEU:HD23	1.49	0.77
38:BR:10:LEU:HD22	38:BR:17:ARG:HD3	1.66	0.77
38:DR:39:PRO:HG2	25:DA:1651:G:H5''	1.67	0.77
24:AX:237:SER:HB3	24:AX:258:GLN:HB2	1.64	0.77
48:B1:17:SER:HB3	48:B1:44:PRO:HD3	1.66	0.77
25:DA:686:G:N2	25:DA:788:A:H61	1.82	0.77
36:BP:95:VAL:HG23	36:BP:125:VAL:HA	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DO:47:ILE:HG13	35:DO:48:PRO:HD2	1.66	0.77
35:BO:47:ILE:HG13	35:BO:48:PRO:HD2	1.66	0.77
36:BP:146:VAL:HG22	36:BP:147:LEU:H	1.48	0.77
42:DV:38:LEU:HD13	42:DV:55:ALA:HB1	1.67	0.77
36:DP:95:VAL:HG23	36:DP:125:VAL:HA	1.66	0.77
36:DP:66:GLY:CA	25:DA:2415:G:H4'	2.13	0.77
1:AA:1251:A:H2'	1:AA:1252:A:C8	2.19	0.77
1:AA:1117:G:H4'	11:AI:104:ARG:HH21	1.49	0.77
39:DS:34:HIS:HA	39:DS:54:LEU:HD23	1.67	0.77
7:AE:50:GLU:HG3	7:AE:52:PRO:HD2	1.65	0.77
1:CA:1251:A:H2'	1:CA:1252:A:C8	2.20	0.77
29:DF:170:LEU:HD12	29:DF:171:PRO:HD2	1.64	0.77
31:BH:35:VAL:HG21	31:BH:75:ALA:HB2	1.67	0.77
37:BQ:6:ARG:N	37:BQ:6:ARG:HE	1.83	0.77
49:B2:17:SER:HB3	49:B2:18:PRO:CD	2.15	0.76
6:AD:28:SER:HB3	6:AD:29:PRO:HD2	1.67	0.76
36:DP:39:LYS:HD2	36:DP:40:SER:H	1.50	0.76
27:BD:125:ILE:HD12	27:BD:125:ILE:H	1.48	0.76
10:CH:10:LEU:HD22	10:CH:83:ILE:HD11	1.67	0.76
6:CD:188:LEU:HD12	6:CD:188:LEU:H	1.49	0.76
44:DX:23:GLU:HG3	44:DX:24:GLY:H	1.50	0.76
30:BG:60:LEU:HD11	30:BG:92:VAL:HG11	1.67	0.76
34:BN:42:GLU:HA	34:BN:82:LYS:HB3	1.68	0.76
6:CD:28:SER:HB3	6:CD:29:PRO:HD2	1.67	0.76
38:BR:104:ARG:HH11	38:BR:104:ARG:CG	1.97	0.76
49:D2:17:SER:HB3	49:D2:18:PRO:CD	2.14	0.76
2:AZ:4:G:HO2'	2:AZ:5:G:H8	1.33	0.76
25:BA:1102:C:H2'	25:BA:1103:A:C8	2.20	0.76
25:BA:1434:A:H61	25:BA:1558:A:H62	1.32	0.76
38:DR:79:LEU:HD23	38:DR:83:ILE:HB	1.67	0.76
25:BA:498:G:H21	45:BY:47:LYS:HE3	1.51	0.76
1:AA:1236:A:H4'	1:AA:1304:G:H4'	1.67	0.76
25:BA:729:G:C5	27:BD:208:LYS:HB2	2.21	0.76
36:DP:35:HIS:HB2	25:DA:942:G:H5'	1.65	0.76
44:BX:23:GLU:HG3	44:BX:24:GLY:H	1.51	0.76
41:BU:90:VAL:HG13	41:BU:91:ASP:H	1.50	0.76
41:DU:90:VAL:HG13	41:DU:91:ASP:H	1.50	0.76
25:DA:1466:G:H2'	25:DA:1547:C:H41	1.49	0.76
24:AX:141:GLU:HB3	24:AX:163:ARG:HB3	1.66	0.76
27:DD:242:ARG:NE	25:DA:1826:G:H4'	1.99	0.76
1:AA:1507:A:H2'	1:AA:1508:G:C8	2.21	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BS:34:HIS:HA	39:BS:54:LEU:HD23	1.67	0.76
15:CM:9:ILE:HG22	15:CM:11:ARG:HG3	1.67	0.76
24:CX:259:ILE:H	24:CX:259:ILE:HD13	1.51	0.76
4:AB:168:THR:OG1	4:AB:192:SER:HA	1.86	0.76
49:D2:36:ARG:HA	49:D2:39:ALA:HB3	1.66	0.76
1:AA:1346:A:H5'	11:AI:120:ARG:HH12	1.50	0.76
12:AJ:49:VAL:HG22	12:AJ:50:ILE:H	1.50	0.76
25:BA:695:G:OP1	25:BA:1380:G:H4'	1.86	0.76
10:AH:89:PRO:HA	10:AH:92:ARG:HH11	1.50	0.76
1:CA:390:C:H2'	1:CA:391:G:C8	2.20	0.76
1:AA:148:G:H2'	1:AA:149:A:H8	1.50	0.76
45:DY:47:LYS:HE3	25:DA:498:G:H21	1.51	0.76
32:DI:90:GLY:O	32:DI:91:SER:HB2	1.86	0.76
1:CA:1236:A:H4'	1:CA:1304:G:H4'	1.66	0.76
11:CI:49:PRO:HD3	11:CI:101:PHE:HE1	1.51	0.76
30:BG:41:GLN:HG2	30:BG:155:MET:HB3	1.68	0.76
1:CA:148:G:H2'	1:CA:149:A:H8	1.50	0.76
24:AX:259:ILE:HD13	24:AX:259:ILE:H	1.50	0.76
30:DG:60:LEU:HD11	30:DG:92:VAL:HG11	1.67	0.76
31:BH:149:ARG:HH21	31:BH:163:TYR:HA	1.50	0.75
25:BA:1639:U:H2'	25:BA:1640:C:H5''	1.68	0.75
27:DD:244:ARG:HH22	25:DA:1841:U:H1'	1.51	0.75
20:CR:26:LEU:HD13	20:CR:39:VAL:HG13	1.67	0.75
46:DZ:10:ARG:HG2	46:DZ:11:GLU:H	1.50	0.75
25:BA:1024:G:H3'	25:BA:1025:G:H5''	1.67	0.75
1:AA:1228:C:H2'	1:AA:1229:A:H8	1.51	0.75
22:CT:26:ASN:HD22	22:CT:27:LYS:N	1.84	0.75
36:BP:39:LYS:HD2	36:BP:40:SER:H	1.48	0.75
24:CX:255:SER:HB3	24:CX:261:ASN:HD21	1.50	0.75
25:DA:404:C:H4'	25:DA:405:U:H5'	1.69	0.75
1:CA:1346:A:H5'	11:CI:120:ARG:HH12	1.50	0.75
51:B4:59:VAL:HG12	51:B4:60:GLU:H	1.51	0.75
25:DA:2426:A:H3'	25:DA:2427:C:C5'	2.16	0.75
31:DH:149:ARG:HH21	31:DH:163:TYR:HA	1.50	0.75
38:DR:78:LYS:HE2	38:DR:83:ILE:HD11	1.69	0.75
10:CH:89:PRO:HA	10:CH:92:ARG:HH11	1.51	0.75
25:BA:1826:G:H4'	27:BD:242:ARG:NE	2.01	0.75
48:B1:45:ASN:ND2	48:B1:47:GLN:HE21	1.83	0.75
25:BA:2426:A:H3'	25:BA:2427:C:C5'	2.16	0.75
4:CB:77:ALA:HB2	4:CB:211:ILE:HD13	1.68	0.75
48:D1:17:SER:HB3	48:D1:44:PRO:HD3	1.66	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:D7:12:ARG:HG3	25:DA:686:G:O6	1.87	0.75
10:CH:42:GLU:HG3	10:CH:109:ILE:HD12	1.68	0.75
25:BA:404:C:H4'	25:BA:405:U:H5'	1.69	0.75
28:DE:119:ARG:HG3	28:DE:119:ARG:NH1	1.96	0.75
27:BD:242:ARG:HD3	27:BD:242:ARG:H	1.52	0.75
25:BA:1676:A:H2	25:BA:1993:U:H5'	1.51	0.75
38:DR:10:LEU:HD22	38:DR:17:ARG:HD3	1.67	0.75
30:DG:41:GLN:HG2	30:DG:155:MET:HB3	1.68	0.75
10:AH:10:LEU:HD22	10:AH:83:ILE:HD11	1.67	0.75
25:BA:2593:U:H2'	25:BA:2594:C:C6	2.22	0.75
37:DQ:6:ARG:HE	37:DQ:6:ARG:N	1.84	0.75
25:DA:1434:A:H61	25:DA:1558:A:H62	1.32	0.75
1:CA:1507:A:H2'	1:CA:1508:G:C8	2.21	0.75
25:BA:2722:G:H5''	25:BA:2820:A:H2	1.52	0.75
12:CJ:49:VAL:HG22	12:CJ:50:ILE:H	1.50	0.75
1:AA:892:A:H2'	1:AA:893:C:C6	2.22	0.75
27:BD:79:VAL:HG21	27:BD:111:LEU:HD11	1.69	0.75
31:DH:87:LEU:HD13	31:DH:148:ILE:HG21	1.69	0.75
25:BA:1652:A:OP1	38:BR:9:LYS:HE3	1.87	0.75
1:CA:892:A:H2'	1:CA:893:C:C6	2.22	0.75
22:AT:26:ASN:HD22	22:AT:27:LYS:N	1.83	0.75
38:BR:79:LEU:HD23	38:BR:83:ILE:HB	1.67	0.75
42:BV:22:VAL:HG12	42:BV:23:GLU:H	1.51	0.74
38:DR:104:ARG:CG	38:DR:104:ARG:HH11	1.98	0.74
25:DA:1639:U:H2'	25:DA:1640:C:H5''	1.69	0.74
45:BY:31:LEU:HD23	45:BY:31:LEU:H	1.52	0.74
49:D2:16:LEU:HB3	49:D2:19:VAL:HB	1.70	0.74
42:DV:22:VAL:HG12	42:DV:23:GLU:H	1.50	0.74
27:DD:208:LYS:HB2	25:DA:729:G:C5	2.22	0.74
21:CS:18:LYS:HG2	21:CS:31:ILE:HD13	1.70	0.74
46:BZ:10:ARG:HG2	46:BZ:11:GLU:H	1.51	0.74
34:DN:42:GLU:HA	34:DN:82:LYS:HB3	1.69	0.74
44:DX:63:LYS:HD2	44:DX:72:LYS:HA	1.68	0.74
40:DT:27:THR:HG23	40:DT:89:VAL:HG13	1.69	0.74
42:BV:38:LEU:HD13	42:BV:55:ALA:HB1	1.68	0.74
20:AR:26:LEU:HD13	20:AR:39:VAL:HG13	1.68	0.74
44:BX:63:LYS:HD2	44:BX:72:LYS:HA	1.67	0.74
35:BO:60:ALA:HA	35:BO:87:ILE:HG13	1.69	0.74
19:CQ:64:PRO:HA	19:CQ:70:ARG:HG3	1.69	0.74
11:AI:49:PRO:HD3	11:AI:101:PHE:HE1	1.51	0.74
32:BI:90:GLY:O	32:BI:91:SER:HB2	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2593:U:H2'	25:DA:2594:C:C6	2.22	0.74
5:CC:11:ARG:HB3	5:CC:15:THR:HB	1.68	0.74
49:B2:16:LEU:HB3	49:B2:19:VAL:HB	1.69	0.74
28:DE:36:ARG:HH12	28:DE:86:PRO:HD2	1.52	0.74
1:CA:1507:A:H2'	1:CA:1508:G:H8	1.52	0.74
15:CM:76:ALA:HA	15:CM:79:LYS:HE2	1.69	0.74
4:AB:54:THR:HG21	4:AB:201:ILE:HD11	1.70	0.74
29:DF:41:LEU:HA	29:DF:44:ARG:HD3	1.70	0.74
25:BA:2850:A:H5'	25:BA:2868:A:H2	1.52	0.74
31:BH:101:ARG:HE	31:BH:101:ARG:H	1.32	0.74
29:DF:10:PRO:HA	29:DF:19:GLU:HG2	1.68	0.74
1:CA:1128:C:H4'	11:CI:16:ARG:HH12	1.53	0.74
34:BN:126:VAL:HG12	34:BN:130:LEU:HD11	1.70	0.74
9:AG:69:VAL:HG22	9:AG:135:VAL:HG22	1.69	0.74
15:CM:90:LEU:HA	15:CM:93:ARG:HD2	1.70	0.74
29:BF:10:PRO:HA	29:BF:19:GLU:HG2	1.69	0.74
1:CA:1228:C:H2'	1:CA:1229:A:H8	1.50	0.74
37:BQ:14:ARG:HH11	37:BQ:14:ARG:CG	2.00	0.74
10:AH:42:GLU:HG3	10:AH:109:ILE:HD12	1.69	0.74
15:CM:57:ARG:HH12	51:D4:60:GLU:HB2	1.52	0.74
4:CB:168:THR:OG1	4:CB:192:SER:HA	1.87	0.74
4:AB:77:ALA:HB2	4:AB:211:ILE:HD13	1.68	0.74
31:BH:87:LEU:HD13	31:BH:148:ILE:HG21	1.70	0.74
9:CG:102:ARG:HG2	9:CG:106:GLN:HE21	1.52	0.74
24:AX:212:LEU:HD12	24:AX:212:LEU:H	1.53	0.74
45:BY:81:LYS:HE2	45:BY:97:ARG:HD3	1.68	0.74
50:D3:5:LYS:HB3	50:D3:57:GLU:HB2	1.69	0.74
9:AG:102:ARG:HG2	9:AG:106:GLN:HE21	1.53	0.74
25:BA:221:A:H4'	25:BA:222:A:O5'	1.88	0.74
50:B3:5:LYS:HB3	50:B3:57:GLU:HB2	1.69	0.74
25:BA:1540:G:C2	25:BA:1541:U:H1'	2.23	0.74
52:D5:40:LYS:HE2	52:D5:46:CYS:HB3	1.70	0.74
46:BZ:69:THR:HG22	46:BZ:90:VAL:HG22	1.68	0.74
18:AP:4:ILE:HG13	18:AP:21:VAL:HG12	1.70	0.74
15:AM:90:LEU:HA	15:AM:93:ARG:HD2	1.70	0.74
45:DY:81:LYS:HE2	45:DY:97:ARG:HD3	1.70	0.73
1:AA:1128:C:H4'	11:AI:16:ARG:HH12	1.53	0.73
35:DO:3:GLN:HB2	35:DO:4:PRO:HD2	1.70	0.73
27:BD:21:PHE:O	27:BD:24:ILE:HG22	1.88	0.73
40:BT:27:THR:HG23	40:BT:89:VAL:HG13	1.70	0.73
36:DP:45:LEU:HD23	36:DP:46:LYS:N	2.03	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1024:G:H3'	25:DA:1025:G:H5''	1.68	0.73
35:BO:3:GLN:HB2	35:BO:4:PRO:HD2	1.69	0.73
37:DQ:55:VAL:HG12	37:DQ:64:ILE:CD1	2.18	0.73
38:BR:78:LYS:HE2	38:BR:83:ILE:HD11	1.68	0.73
14:AL:17:VAL:HG23	14:AL:18:ARG:H	1.53	0.73
36:BP:45:LEU:HD23	36:BP:46:LYS:N	2.02	0.73
2:CZ:1:C:H2'	2:CZ:2:G:H8	1.53	0.73
24:CX:212:LEU:HD12	24:CX:212:LEU:H	1.53	0.73
28:DE:179:GLU:HB3	28:DE:181:LEU:HD23	1.69	0.73
52:B5:40:LYS:HE2	52:B5:46:CYS:HB3	1.69	0.73
51:D4:59:VAL:HG12	51:D4:60:GLU:H	1.50	0.73
9:CG:69:VAL:HG22	9:CG:135:VAL:HG22	1.69	0.73
46:DZ:69:THR:HG22	46:DZ:90:VAL:HG22	1.68	0.73
21:AS:18:LYS:HG2	21:AS:31:ILE:HD13	1.69	0.73
27:DD:79:VAL:HG21	27:DD:111:LEU:HD11	1.70	0.73
31:DH:35:VAL:HG21	31:DH:75:ALA:HB2	1.69	0.73
25:DA:1540:G:C2	25:DA:1541:U:H1'	2.23	0.73
1:AA:1182:G:H4'	1:AA:1183:A:H5''	1.71	0.73
4:CB:54:THR:HG21	4:CB:201:ILE:HD11	1.70	0.73
32:BI:71:ILE:HG23	32:BI:72:LEU:HD22	1.69	0.73
10:CH:102:ARG:HE	10:CH:102:ARG:N	1.87	0.73
27:DD:31:LYS:HE3	27:DD:33:LEU:HD21	1.71	0.73
25:DA:1542:G:H4'	25:DA:1543:A:O5'	1.89	0.73
41:DU:95:LEU:HD11	42:DV:12:TYR:HA	1.70	0.73
7:CE:6:PHE:HB2	7:CE:34:VAL:HG12	1.70	0.73
28:BE:36:ARG:HH12	28:BE:86:PRO:HD2	1.51	0.73
32:BI:116:LEU:HD22	32:BI:128:LEU:HD21	1.71	0.73
7:AE:6:PHE:HB2	7:AE:34:VAL:HG12	1.70	0.73
30:DG:43:LEU:HD22	30:DG:90:LEU:HB2	1.70	0.73
25:BA:686:G:O6	54:B7:12:ARG:HG3	1.89	0.73
45:DY:31:LEU:H	45:DY:31:LEU:HD23	1.52	0.73
25:BA:140:A:H8	25:BA:1408:C:HO2'	1.34	0.73
35:DO:60:ALA:HA	35:DO:87:ILE:HG13	1.69	0.73
36:BP:115:LEU:HA	36:BP:134:ALA:HB2	1.71	0.73
41:BU:95:LEU:HD11	42:BV:12:TYR:HA	1.71	0.73
25:DA:221:A:H4'	25:DA:222:A:O5'	1.88	0.73
25:DA:2722:G:H5''	25:DA:2820:A:H2	1.53	0.73
5:CC:141:VAL:HG11	5:CC:202:ILE:HD12	1.70	0.73
40:BT:26:ASP:CB	40:BT:91:ARG:HA	2.18	0.73
1:AA:390:C:H2'	1:AA:391:G:H8	1.53	0.73
25:BA:686:G:N2	25:BA:788:A:H61	1.85	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CF:50:TYR:HE2	8:CF:87:ARG:HH21	1.36	0.73
47:B0:49:LYS:HB2	47:B0:80:HIS:HB3	1.71	0.73
25:BA:1210:A:H4'	25:BA:1211:U:O5'	1.88	0.73
43:BW:110:LYS:HG3	43:BW:111:HIS:ND1	2.03	0.73
34:BN:90:LEU:H	34:BN:90:LEU:HD12	1.54	0.72
15:AM:76:ALA:HA	15:AM:79:LYS:HE2	1.69	0.72
8:CF:30:LEU:HB3	8:CF:35:ALA:HB3	1.71	0.72
25:DA:519:U:H2'	25:DA:520:G:H8	1.54	0.72
25:DA:1676:A:H2	25:DA:1993:U:H5'	1.52	0.72
27:BD:31:LYS:HE3	27:BD:33:LEU:HD21	1.70	0.72
40:DT:26:ASP:CB	40:DT:91:ARG:HA	2.18	0.72
38:DR:9:LYS:HE3	25:DA:1652:A:OP1	1.89	0.72
11:AI:48:GLU:N	11:AI:49:PRO:HD2	2.04	0.72
48:D1:58:ILE:HD11	48:D1:91:LYS:HG2	1.70	0.72
27:DD:62:TYR:HA	27:DD:87:ASN:HD21	1.53	0.72
28:BE:179:GLU:HB3	28:BE:181:LEU:HD23	1.69	0.72
1:AA:975:A:H4'	1:AA:976:G:H5''	1.72	0.72
5:AC:11:ARG:HB3	5:AC:15:THR:HB	1.69	0.72
27:DD:21:PHE:O	27:DD:24:ILE:HG22	1.89	0.72
29:BF:143:ALA:HB1	29:BF:148:LEU:HB2	1.71	0.72
29:BF:41:LEU:HA	29:BF:44:ARG:HD3	1.71	0.72
25:DA:2850:A:H5'	25:DA:2868:A:H2	1.52	0.72
41:BU:55:ARG:HA	41:BU:58:ARG:HD2	1.70	0.72
25:BA:2420:C:OP1	55:B8:34:TRP:HA	1.90	0.72
1:CA:390:C:H2'	1:CA:391:G:H8	1.54	0.72
10:CH:102:ARG:H	10:CH:102:ARG:HE	1.37	0.72
1:CA:1356:G:H2'	1:CA:1357:A:C8	2.25	0.72
8:AF:30:LEU:HB3	8:AF:35:ALA:HB3	1.71	0.72
1:AA:1356:G:H2'	1:AA:1357:A:C8	2.24	0.72
37:DQ:14:ARG:HH11	37:DQ:14:ARG:CG	2.00	0.72
11:CI:28:VAL:HG22	11:CI:63:ILE:HB	1.72	0.72
49:D2:18:PRO:O	49:D2:21:LEU:HB3	1.89	0.72
11:AI:85:LEU:HD11	11:AI:96:LEU:HD22	1.72	0.72
27:DD:83:GLU:HB2	27:DD:92:ILE:HD11	1.72	0.72
25:BA:848:G:H2'	25:BA:849:A:C8	2.24	0.72
25:DA:848:G:H2'	25:DA:849:A:C8	2.25	0.72
36:DP:50:ARG:HB2	55:D8:60:LEU:HD11	1.72	0.72
27:DD:242:ARG:H	27:DD:242:ARG:HD3	1.52	0.72
1:CA:17:U:H2'	1:CA:18:C:C6	2.24	0.72
18:CP:4:ILE:HG13	18:CP:21:VAL:HG12	1.70	0.72
41:BU:24:TYR:HB2	41:BU:29:SER:HB3	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CK:18:ARG:HB3	13:CK:33:THR:HG23	1.72	0.72
37:DQ:141:GLN:HB3	46:DZ:70:LEU:HD12	1.71	0.72
45:BY:45:VAL:HG22	45:BY:62:GLU:HB3	1.71	0.72
1:CA:891:U:H2'	1:CA:892:A:H8	1.55	0.72
29:DF:8:GLN:HA	29:DF:21:ALA:HA	1.72	0.72
43:DW:110:LYS:HG3	43:DW:111:HIS:ND1	2.04	0.72
45:DY:45:VAL:HG22	45:DY:62:GLU:HB3	1.72	0.72
27:BD:62:TYR:HA	27:BD:87:ASN:HD21	1.55	0.72
32:DI:71:ILE:HG23	32:DI:72:LEU:HD22	1.69	0.72
44:BX:8:ILE:HD12	44:BX:8:ILE:H	1.53	0.72
4:AB:91:PRO:HA	4:AB:154:LEU:HD11	1.72	0.72
40:DT:107:ASP:O	40:DT:110:ILE:HG22	1.89	0.72
48:B1:58:ILE:HD11	48:B1:91:LYS:HG2	1.71	0.72
24:CX:300:GLU:HG3	24:CX:301:LYS:H	1.53	0.72
37:BQ:141:GLN:HB3	46:BZ:70:LEU:HD12	1.70	0.72
27:BD:28:GLU:HB3	27:BD:29:PRO:HD3	1.69	0.72
25:DA:2422:A:H4'	25:DA:2423:U:OP1	1.89	0.72
25:BA:1542:G:H4'	25:BA:1543:A:O5'	1.90	0.72
1:AA:1507:A:H2'	1:AA:1508:G:H8	1.53	0.72
8:AF:50:TYR:HE2	8:AF:87:ARG:HH21	1.36	0.72
36:DP:115:LEU:HA	36:DP:134:ALA:HB2	1.72	0.72
32:DI:78:THR:HA	32:DI:143:SER:HB3	1.72	0.71
25:DA:972:G:H3'	25:DA:973:A:H2'	1.72	0.71
25:DA:886:C:H2'	25:DA:887:A:H4'	1.71	0.71
24:AX:300:GLU:HG3	24:AX:301:LYS:H	1.54	0.71
25:BA:2422:A:H4'	25:BA:2423:U:OP1	1.89	0.71
25:DA:38:A:H2'	25:DA:39:C:C6	2.25	0.71
26:BB:8:U:H5''	39:BS:15:ARG:HH22	1.55	0.71
47:D0:49:LYS:HB2	47:D0:80:HIS:HB3	1.71	0.71
25:DA:1210:A:H4'	25:DA:1211:U:O5'	1.89	0.71
11:CI:48:GLU:N	11:CI:49:PRO:HD2	2.04	0.71
1:AA:891:U:H2'	1:AA:892:A:H8	1.55	0.71
2:AZ:1:C:H2'	2:AZ:2:G:H8	1.53	0.71
1:AA:1504:G:H4'	1:AA:1505:G:O5'	1.90	0.71
29:DF:143:ALA:HB1	29:DF:148:LEU:HB2	1.71	0.71
25:BA:996:A:H4'	41:BU:92:ARG:NH1	2.05	0.71
45:BY:76:CYS:HB3	45:BY:77:PRO:CD	2.20	0.71
36:BP:125:VAL:HG11	36:BP:138:LEU:HD22	1.72	0.71
30:DG:98:ARG:H	30:DG:98:ARG:HD2	1.55	0.71
15:CM:57:ARG:NH1	51:D4:60:GLU:HB2	2.05	0.71
1:AA:17:U:H2'	1:AA:18:C:C6	2.26	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:B0:23:VAL:HA	47:B0:38:VAL:HG22	1.72	0.71
40:BT:107:ASP:O	40:BT:110:ILE:HG22	1.90	0.71
24:CX:255:SER:HB3	24:CX:261:ASN:ND2	2.06	0.71
5:AC:141:VAL:HG11	5:AC:202:ILE:HD12	1.71	0.71
46:BZ:163:LEU:HD23	46:BZ:163:LEU:H	1.55	0.71
10:AH:102:ARG:N	10:AH:102:ARG:HE	1.87	0.71
31:BH:92:ILE:H	31:BH:92:ILE:HD12	1.55	0.71
29:DF:160:ASN:HD21	29:DF:162:LEU:HD13	1.56	0.71
1:CA:537:G:H5''	14:CL:112:ARG:NH2	2.06	0.71
4:AB:178:ARG:HE	10:AH:74:PRO:HD3	1.55	0.71
46:DZ:163:LEU:H	46:DZ:163:LEU:HD23	1.55	0.71
1:CA:1504:G:H4'	1:CA:1505:G:O5'	1.90	0.71
42:DV:22:VAL:HG12	42:DV:23:GLU:N	2.05	0.71
4:CB:91:PRO:HA	4:CB:154:LEU:HD11	1.72	0.71
1:CA:1182:G:H4'	1:CA:1183:A:H5''	1.71	0.71
14:CL:17:VAL:HG23	14:CL:18:ARG:H	1.53	0.71
1:CA:1104:G:H5'	4:CB:111:ARG:HD2	1.73	0.71
34:DN:90:LEU:H	34:DN:90:LEU:HD12	1.54	0.71
41:DU:55:ARG:HA	41:DU:58:ARG:HD2	1.71	0.71
11:CI:85:LEU:HD11	11:CI:96:LEU:HD22	1.73	0.71
48:D1:90:ILE:O	48:D1:94:LEU:HB2	1.90	0.71
13:CK:52:GLY:H	13:CK:55:LYS:NZ	1.89	0.71
31:DH:92:ILE:HD12	31:DH:92:ILE:H	1.55	0.71
25:BA:886:C:H2'	25:BA:887:A:H4'	1.71	0.71
25:DA:1786:A:H3'	25:DA:1787:A:H8	1.55	0.71
44:DX:8:ILE:HD12	44:DX:8:ILE:H	1.54	0.71
27:DD:28:GLU:HB3	27:DD:29:PRO:HD3	1.71	0.71
42:BV:25:LEU:HD23	42:BV:26:ASP:H	1.56	0.71
55:D8:34:TRP:HA	25:DA:2420:C:OP1	1.91	0.71
19:AQ:12:SER:HB3	19:AQ:20:THR:HB	1.71	0.71
42:BV:22:VAL:HG12	42:BV:23:GLU:N	2.06	0.71
47:D0:23:VAL:HA	47:D0:38:VAL:HG22	1.73	0.71
32:DI:116:LEU:HD22	32:DI:128:LEU:HD21	1.71	0.71
4:CB:178:ARG:HE	10:CH:74:PRO:HD3	1.56	0.71
42:BV:34:GLU:HG3	42:BV:58:VAL:HG22	1.73	0.71
24:AX:13:ARG:HD2	24:AX:13:ARG:H	1.55	0.71
25:BA:204:A:OP1	25:BA:204:A:H8	1.73	0.71
25:DA:1858:G:HO2'	25:DA:1859:A:H8	1.37	0.71
41:BU:90:VAL:HG23	42:BV:39:LEU:HB3	1.72	0.71
25:DA:1050:A:H2'	25:DA:1051:G:C8	2.26	0.71
25:BA:972:G:H3'	25:BA:973:A:H2'	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:64:THR:HG23	30:BG:66:GLN:H	1.56	0.70
40:DT:26:ASP:HB3	40:DT:91:ARG:HA	1.73	0.70
19:AQ:64:PRO:HA	19:AQ:70:ARG:HG3	1.71	0.70
31:DH:16:SER:HB2	31:DH:27:LYS:HB2	1.73	0.70
1:CA:736:C:H2'	1:CA:737:A:C8	2.26	0.70
39:DS:15:ARG:HH22	26:DB:8:U:H5''	1.54	0.70
1:CA:344:A:H4'	40:DT:39:ARG:HH22	1.56	0.70
35:DO:86:ILE:H	35:DO:86:ILE:HD12	1.55	0.70
19:CQ:12:SER:HB3	19:CQ:20:THR:HB	1.71	0.70
49:B2:18:PRO:O	49:B2:21:LEU:HB3	1.90	0.70
36:BP:52:GLU:HG3	36:BP:53:GLY:H	1.56	0.70
15:AM:10:PRO:HB2	15:AM:18:ALA:HB1	1.73	0.70
37:BQ:38:GLU:HB2	37:BQ:127:ILE:HG23	1.74	0.70
25:BA:189:G:H2'	25:BA:205:G:N2	2.07	0.70
48:D1:11:ARG:HH11	48:D1:61:ARG:H	1.40	0.70
38:DR:38:VAL:HB	38:DR:39:PRO:HD3	1.73	0.70
30:BG:98:ARG:H	30:BG:98:ARG:HD2	1.55	0.70
30:BG:43:LEU:HD22	30:BG:90:LEU:HB2	1.71	0.70
15:CM:99:ARG:HB2	15:CM:101:GLN:HE21	1.55	0.70
6:CD:162:LEU:HD13	6:CD:181:MET:HG2	1.74	0.70
25:DA:204:A:H8	25:DA:204:A:OP1	1.73	0.70
51:D4:46:ASN:HB2	51:D4:64:LYS:HB2	1.73	0.70
25:BA:519:U:H2'	25:BA:520:G:H8	1.55	0.70
41:DU:90:VAL:HG23	42:DV:39:LEU:HB3	1.72	0.70
36:BP:64:LYS:HB2	55:B8:25:MET:HG3	1.73	0.70
27:BD:33:LEU:O	27:BD:36:PRO:HD2	1.92	0.70
13:AK:18:ARG:HB3	13:AK:33:THR:HG23	1.73	0.70
1:AA:687:A:H2'	1:AA:701:C:H41	1.56	0.70
20:CR:50:ILE:HD12	20:CR:70:ILE:HG21	1.74	0.70
32:DI:62:LYS:HB2	32:DI:133:HIS:CE1	2.26	0.70
24:CX:13:ARG:H	24:CX:13:ARG:HD2	1.54	0.70
48:B1:90:ILE:O	48:B1:94:LEU:HB2	1.91	0.70
7:CE:51:VAL:HB	7:CE:52:PRO:HD3	1.74	0.70
25:BA:1183:G:H2'	25:BA:1184:G:H8	1.56	0.70
42:DV:25:LEU:HD23	42:DV:26:ASP:H	1.57	0.70
41:DU:24:TYR:HB2	41:DU:29:SER:HB3	1.73	0.70
11:AI:28:VAL:HG22	11:AI:63:ILE:HB	1.72	0.70
6:AD:162:LEU:HD13	6:AD:181:MET:HG2	1.74	0.70
27:BD:148:GLU:HB2	27:BD:151:LYS:HD2	1.74	0.70
1:AA:1104:G:H5'	4:AB:111:ARG:HD2	1.72	0.70
35:BO:86:ILE:HD12	35:BO:86:ILE:H	1.55	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AX:255:SER:HB3	24:AX:261:ASN:ND2	2.05	0.70
10:AH:102:ARG:H	10:AH:102:ARG:HE	1.38	0.70
36:BP:50:ARG:HB2	55:B8:60:LEU:HD11	1.73	0.70
45:BY:27:VAL:HG12	45:BY:39:VAL:HG22	1.74	0.70
27:BD:83:GLU:HB2	27:BD:92:ILE:HD11	1.73	0.70
25:DA:107:C:H2'	25:DA:108:U:C6	2.27	0.70
54:B7:5:TRP:NE1	54:B7:7:PRO:HG3	2.07	0.70
13:AK:52:GLY:H	13:AK:55:LYS:NZ	1.89	0.70
1:AA:537:G:H5''	14:AL:112:ARG:NH2	2.07	0.70
40:BT:26:ASP:HB3	40:BT:91:ARG:HA	1.73	0.70
1:AA:673:G:H5''	8:AF:87:ARG:NH1	2.07	0.70
45:DY:76:CYS:HB3	45:DY:77:PRO:CD	2.20	0.69
48:D1:62:VAL:HG22	48:D1:63:ALA:H	1.57	0.69
13:AK:21:ILE:HB	13:AK:84:VAL:HG12	1.74	0.69
33:BJ:14:LYS:HA	33:BJ:14:LYS:HE2	1.74	0.69
25:BA:1786:A:H3'	25:BA:1787:A:H8	1.57	0.69
1:CA:975:A:H4'	1:CA:976:G:H5''	1.73	0.69
17:AO:33:THR:HG23	17:AO:63:ARG:HH22	1.57	0.69
25:BA:2103:C:H2'	25:BA:2104:G:C8	2.27	0.69
37:DQ:38:GLU:HB2	37:DQ:127:ILE:HG23	1.74	0.69
36:DP:52:GLU:HG3	36:DP:53:GLY:H	1.57	0.69
24:AX:293:ILE:HG13	24:AX:294:GLY:N	2.07	0.69
15:AM:99:ARG:HB2	15:AM:101:GLN:HE21	1.54	0.69
32:DI:83:ALA:HB2	32:DI:88:ILE:HD13	1.74	0.69
41:DU:92:ARG:NH1	25:DA:996:A:H4'	2.06	0.69
22:CT:26:ASN:HD22	22:CT:27:LYS:H	1.38	0.69
5:CC:15:THR:HG21	5:CC:181:ASN:HA	1.75	0.69
27:DD:33:LEU:O	27:DD:36:PRO:HD2	1.92	0.69
1:AA:736:C:H2'	1:AA:737:A:C8	2.27	0.69
1:AA:1065:U:H4'	1:AA:1066:C:O5'	1.91	0.69
8:AF:16:GLN:CD	8:AF:16:GLN:H	1.95	0.69
25:DA:2103:C:H2'	25:DA:2104:G:C8	2.27	0.69
25:DA:1183:G:H2'	25:DA:1184:G:H8	1.57	0.69
54:D7:7:PRO:HB2	25:DA:1309:G:H4'	1.75	0.69
1:CA:67:C:H2'	1:CA:68:G:C8	2.27	0.69
31:DH:121:ILE:HD11	31:DH:140:LYS:HD3	1.74	0.69
25:BA:691:C:H2'	25:BA:692:C:C6	2.27	0.69
14:AL:23:VAL:HG13	14:AL:97:TYR:CE2	2.28	0.69
7:AE:51:VAL:HB	7:AE:52:PRO:HD3	1.74	0.69
8:CF:72:VAL:HG13	8:CF:73:ASN:H	1.57	0.69
27:DD:148:GLU:HB2	27:DD:151:LYS:HD2	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BF:8:GLN:HA	29:BF:21:ALA:HA	1.73	0.69
37:DQ:23:GLY:HA3	37:DQ:98:LYS:CG	2.18	0.69
36:DP:64:LYS:HB2	55:D8:25:MET:HG3	1.74	0.69
8:AF:72:VAL:HG13	8:AF:73:ASN:H	1.57	0.69
51:B4:46:ASN:HB2	51:B4:64:LYS:HB2	1.74	0.69
44:DX:64:LYS:HG2	44:DX:65:ARG:H	1.57	0.69
5:CC:138:VAL:HG13	5:CC:149:ALA:HB3	1.75	0.69
12:CJ:49:VAL:HG21	16:CN:41:ARG:HB2	1.75	0.69
38:BR:38:VAL:HB	38:BR:39:PRO:HD3	1.73	0.69
11:CI:89:ASN:HB3	11:CI:92:TYR:HB2	1.74	0.69
22:AT:26:ASN:HD22	22:AT:27:LYS:H	1.38	0.69
14:AL:74:HIS:CD2	14:AL:76:LEU:H	2.11	0.69
33:DJ:14:LYS:HE2	33:DJ:14:LYS:HA	1.75	0.69
36:DP:125:VAL:HG11	36:DP:138:LEU:HD22	1.73	0.69
30:BG:66:GLN:HG2	30:BG:67:LYS:H	1.58	0.69
11:AI:79:LEU:HD23	11:AI:101:PHE:O	1.92	0.69
25:BA:197:A:H8	25:BA:197:A:H5'	1.56	0.69
27:BD:33:LEU:HD23	27:BD:33:LEU:H	1.57	0.69
27:DD:25:THR:CG2	27:DD:82:ILE:H	2.06	0.69
27:BD:25:THR:CG2	27:BD:82:ILE:H	2.06	0.69
25:DA:1858:G:H1'	25:DA:1884:A:N6	2.08	0.69
1:AA:684:A:H2'	1:AA:685:G:C8	2.28	0.69
24:AX:198:THR:HB	24:AX:293:ILE:HD13	1.75	0.69
25:DA:27:G:HO2'	25:DA:28:A:H8	1.41	0.69
25:BA:2698:U:H2'	25:BA:2699:C:C6	2.28	0.69
38:DR:12:ARG:HD3	38:DR:16:HIS:ND1	2.08	0.69
6:CD:13:ARG:HB2	6:CD:40:PRO:HD3	1.75	0.69
1:AA:668:G:H1'	17:AO:46:HIS:HD2	1.58	0.69
29:BF:78:ILE:HD12	29:BF:78:ILE:H	1.58	0.69
1:CA:134:A:H61	18:CP:25:ARG:NH1	1.91	0.69
12:CJ:92:THR:HG23	12:CJ:93:GLY:H	1.58	0.69
13:CK:21:ILE:HB	13:CK:84:VAL:HG12	1.75	0.69
27:DD:159:ALA:HB1	27:DD:198:ASN:O	1.93	0.69
1:AA:505:G:H2'	1:AA:506:G:H8	1.58	0.69
10:CH:50:ARG:HD2	10:CH:50:ARG:H	1.58	0.69
42:DV:47:VAL:HG12	42:DV:49:THR:O	1.93	0.69
48:B1:11:ARG:HG3	48:B1:62:VAL:HA	1.75	0.69
48:B1:11:ARG:HH11	48:B1:61:ARG:H	1.39	0.69
5:AC:138:VAL:HG13	5:AC:149:ALA:HB3	1.75	0.69
32:BI:78:THR:HA	32:BI:143:SER:HB3	1.73	0.69
20:AR:50:ILE:HD12	20:AR:70:ILE:HG21	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:DD:146:GLU:HA	27:DD:153:ALA:HA	1.75	0.69
12:CJ:54:PHE:HD2	12:CJ:55:LYS:HG3	1.58	0.69
25:DA:189:G:H2'	25:DA:205:G:N2	2.07	0.69
42:DV:34:GLU:HG3	42:DV:58:VAL:HG22	1.74	0.69
12:AJ:49:VAL:HG21	16:AN:41:ARG:HB2	1.75	0.69
30:DG:64:THR:HG23	30:DG:66:GLN:H	1.56	0.69
30:DG:66:GLN:HG2	30:DG:67:LYS:H	1.58	0.69
11:AI:89:ASN:HB3	11:AI:92:TYR:HB2	1.75	0.69
42:BV:18:LEU:H	42:BV:96:ILE:HB	1.57	0.69
1:CA:950:U:H2'	1:CA:951:G:H8	1.58	0.69
53:D6:21:TYR:HE1	25:DA:2399:G:H1'	1.58	0.69
25:BA:1858:G:H1'	25:BA:1884:A:N6	2.07	0.69
32:BI:62:LYS:HB2	32:BI:133:HIS:CE1	2.27	0.69
31:BH:16:SER:HB2	31:BH:27:LYS:HB2	1.73	0.69
37:BQ:14:ARG:HG2	37:BQ:14:ARG:NH1	2.00	0.68
48:B1:62:VAL:HG22	48:B1:63:ALA:H	1.59	0.68
14:CL:23:VAL:HG13	14:CL:97:TYR:CE2	2.28	0.68
27:DD:25:THR:HG23	27:DD:27:THR:HG22	1.74	0.68
1:CA:684:A:H2'	1:CA:685:G:C8	2.27	0.68
45:DY:27:VAL:HG12	45:DY:39:VAL:HG22	1.74	0.68
34:DN:126:VAL:HG12	34:DN:130:LEU:HD11	1.73	0.68
42:DV:18:LEU:H	42:DV:96:ILE:HB	1.57	0.68
24:CX:111:ILE:HD12	24:CX:111:ILE:H	1.57	0.68
5:AC:43:LEU:O	5:AC:47:LEU:HB3	1.94	0.68
1:AA:505:G:H2'	1:AA:506:G:C8	2.28	0.68
25:BA:811:U:H2'	36:BP:25:SER:HA	1.75	0.68
25:DA:2698:U:H2'	25:DA:2699:C:C6	2.28	0.68
25:BA:107:C:H2'	25:BA:108:U:C6	2.28	0.68
11:CI:79:LEU:HD23	11:CI:101:PHE:O	1.92	0.68
27:BD:25:THR:HG23	27:BD:27:THR:HG22	1.75	0.68
54:D7:5:TRP:NE1	54:D7:7:PRO:HG3	2.08	0.68
11:CI:44:VAL:HB	11:CI:51:ARG:HH22	1.58	0.68
25:BA:2331:G:H4'	47:B0:43:THR:H	1.57	0.68
24:AX:111:ILE:H	24:AX:111:ILE:HD12	1.57	0.68
29:DF:78:ILE:HD12	29:DF:78:ILE:H	1.58	0.68
14:CL:113:LYS:O	14:CL:116:ARG:HG3	1.93	0.68
9:AG:103:TRP:HB3	9:AG:134:ALA:HB1	1.75	0.68
4:CB:84:GLU:HG3	4:CB:215:LEU:HB3	1.75	0.68
35:DO:76:ALA:HB3	40:DT:75:ILE:HB	1.76	0.68
25:DA:1131:G:H4'	25:DA:1132:A:OP1	1.94	0.68
25:BA:38:A:H2'	25:BA:39:C:C6	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1483:G:H2'	25:BA:1484:G:C8	2.29	0.68
1:AA:134:A:H61	18:AP:25:ARG:NH1	1.90	0.68
47:D0:43:THR:H	25:DA:2331:G:H4'	1.58	0.68
17:CO:33:THR:HG23	17:CO:63:ARG:HH22	1.58	0.68
24:AX:85:LYS:O	24:AX:89:GLU:HG2	1.94	0.68
1:CA:250:A:H4'	1:CA:251:G:O5'	1.93	0.68
29:BF:160:ASN:HD21	29:BF:162:LEU:HD13	1.57	0.68
25:BA:1050:A:H2'	25:BA:1051:G:H8	1.56	0.68
25:DA:1105:U:H2'	25:DA:1106:G:C8	2.28	0.68
25:DA:2564:A:C2	25:DA:2647:U:H4'	2.29	0.68
1:AA:67:C:H2'	1:AA:68:G:C8	2.28	0.68
31:BH:121:ILE:HD11	31:BH:140:LYS:HD3	1.74	0.68
15:CM:10:PRO:HB2	15:CM:18:ALA:HB1	1.73	0.68
48:B1:50:ARG:HG2	48:B1:59:THR:HG22	1.76	0.68
25:BA:2564:A:C2	25:BA:2647:U:H4'	2.29	0.68
48:D1:11:ARG:HG3	48:D1:62:VAL:HA	1.75	0.68
24:CX:163:ARG:HH12	24:CX:204:LYS:HD3	1.58	0.68
5:AC:15:THR:HG21	5:AC:181:ASN:HA	1.75	0.68
36:DP:25:SER:HA	25:DA:811:U:H2'	1.75	0.68
24:CX:293:ILE:HG13	24:CX:294:GLY:N	2.08	0.68
1:CA:668:G:H1'	17:CO:46:HIS:HD2	1.58	0.68
25:DA:2275:C:H5'	25:DA:2275:C:H6	1.59	0.68
24:AX:61:ALA:HB3	24:AX:74:ALA:HB2	1.76	0.68
8:CF:16:GLN:CD	8:CF:16:GLN:H	1.95	0.68
25:BA:1105:U:H2'	25:BA:1106:G:C8	2.29	0.68
32:BI:83:ALA:HB2	32:BI:88:ILE:HD13	1.76	0.68
6:AD:123:HIS:HB2	6:AD:125:HIS:CD2	2.29	0.68
1:CA:687:A:H2'	1:CA:701:C:H41	1.57	0.68
5:CC:185:GLY:HA3	5:CC:200:ALA:HB3	1.76	0.68
42:BV:47:VAL:HG12	42:BV:49:THR:O	1.94	0.68
2:AY:56:C:O2'	30:BG:78:SER:HB3	1.93	0.68
25:BA:195:A:OP1	36:BP:46:LYS:HE2	1.94	0.68
43:BW:14:PRO:O	43:BW:18:ARG:HG3	1.94	0.68
34:BN:148:GLY:HA3	34:BN:149:PRO:O	1.94	0.68
9:AG:146:GLU:OE1	9:AG:149:ARG:HD2	1.94	0.68
52:D5:19:ARG:HA	25:DA:2046:G:H5'	1.76	0.68
15:CM:44:ARG:HB2	15:CM:46:LYS:HG2	1.76	0.68
25:BA:1766:U:H2'	25:BA:1767:C:H6	1.59	0.68
43:BW:29:LEU:HD22	43:BW:69:LEU:HD11	1.76	0.68
49:D2:38:GLN:O	49:D2:41:ILE:HG12	1.94	0.68
35:BO:76:ALA:HB3	40:BT:75:ILE:HB	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:250:A:H4'	1:AA:251:G:O5'	1.93	0.68
24:AX:48:ILE:HA	24:AX:51:TYR:CD1	2.28	0.68
5:CC:43:LEU:O	5:CC:47:LEU:HB3	1.94	0.67
36:DP:45:LEU:HD23	36:DP:46:LYS:H	1.59	0.67
36:BP:45:LEU:HD23	36:BP:46:LYS:H	1.58	0.67
27:DD:33:LEU:HD23	27:DD:33:LEU:H	1.58	0.67
25:BA:2298:A:H2'	25:BA:2299:G:O4'	1.94	0.67
25:BA:2046:G:H5'	52:B5:19:ARG:HA	1.76	0.67
6:AD:13:ARG:HB2	6:AD:40:PRO:HD3	1.76	0.67
6:CD:123:HIS:HB2	6:CD:125:HIS:CD2	2.28	0.67
14:AL:113:LYS:O	14:AL:116:ARG:HG3	1.93	0.67
12:AJ:54:PHE:HD2	12:AJ:55:LYS:HG3	1.58	0.67
45:BY:81:LYS:HD3	45:BY:97:ARG:HB3	1.76	0.67
4:AB:84:GLU:HG3	4:AB:215:LEU:HB3	1.75	0.67
1:CA:1117:G:H4'	11:CI:104:ARG:NH2	2.09	0.67
32:DI:101:LEU:HG	32:DI:107:ILE:HG23	1.76	0.67
27:BD:159:ALA:HB1	27:BD:198:ASN:O	1.94	0.67
25:DA:2287:A:H62	25:DA:2344:U:H3	1.41	0.67
25:BA:2314:C:H2'	25:BA:2315:G:H8	1.60	0.67
36:DP:27:HIS:CD2	25:DA:814:C:H41	2.12	0.67
28:DE:132:HIS:CG	28:DE:135:HIS:HE2	2.12	0.67
25:DA:2502:G:H5'	25:DA:2503:A:H5''	1.75	0.67
44:BX:64:LYS:HG2	44:BX:65:ARG:H	1.58	0.67
29:BF:117:ARG:HG3	29:BF:122:LYS:HB2	1.77	0.67
1:CA:1271:G:H2'	1:CA:1272:G:H8	1.60	0.67
9:CG:103:TRP:HB3	9:CG:134:ALA:HB1	1.76	0.67
10:AH:50:ARG:HD2	10:AH:50:ARG:H	1.58	0.67
27:BD:201:HIS:O	27:BD:204:ILE:HG13	1.94	0.67
48:D1:50:ARG:HG2	48:D1:59:THR:HG22	1.75	0.67
1:CA:505:G:H2'	1:CA:506:G:C8	2.29	0.67
52:D5:45:VAL:HG12	52:D5:46:CYS:H	1.59	0.67
18:AP:21:VAL:HG23	18:AP:33:ILE:HB	1.76	0.67
52:B5:45:VAL:HG12	52:B5:46:CYS:H	1.58	0.67
32:BI:101:LEU:HG	32:BI:107:ILE:HG23	1.75	0.67
24:AX:112:ARG:HB2	24:AX:198:THR:HG23	1.77	0.67
1:AA:1271:G:H2'	1:AA:1272:G:H8	1.59	0.67
25:DA:2164:C:H2'	25:DA:2165:G:H8	1.60	0.67
24:CX:48:ILE:HA	24:CX:51:TYR:CD1	2.29	0.67
1:CA:1065:U:H4'	1:CA:1066:C:O5'	1.93	0.67
32:DI:31:LEU:HD13	32:DI:37:VAL:HA	1.76	0.67
9:CG:80:VAL:HG21	9:CG:85:TYR:CE1	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AF:36:ARG:HH21	8:AF:38:GLU:HG2	1.59	0.67
9:CG:15:ASP:HB3	9:CG:20:ASP:H	1.59	0.67
1:CA:1224:G:H4'	15:CM:102:ARG:HH22	1.59	0.67
28:DE:51:PHE:H	28:DE:75:VAL:HB	1.60	0.67
1:CA:673:G:H5''	8:CF:87:ARG:NH1	2.09	0.67
9:CG:15:ASP:HA	9:CG:24:THR:HG23	1.77	0.67
27:DD:201:HIS:O	27:DD:204:ILE:HG13	1.95	0.67
9:AG:80:VAL:HG21	9:AG:85:TYR:CE1	2.29	0.67
30:DG:36:LYS:HB3	30:DG:160:VAL:HB	1.77	0.67
25:BA:1548:C:H2'	25:BA:1549:C:H6	1.59	0.67
48:B1:25:LYS:HG2	48:B1:35:THR:HG22	1.75	0.67
55:D8:8:LYS:HE3	25:DA:245:G:O6	1.95	0.67
12:AJ:92:THR:HG23	12:AJ:93:GLY:H	1.57	0.67
48:B1:11:ARG:NH1	48:B1:61:ARG:H	1.93	0.67
24:CX:198:THR:HB	24:CX:293:ILE:HD13	1.76	0.67
15:CM:16:ASP:HB3	15:CM:34:LEU:HD11	1.77	0.67
25:BA:814:C:H41	36:BP:27:HIS:CD2	2.12	0.67
24:CX:61:ALA:HB3	24:CX:74:ALA:HB2	1.76	0.67
34:DN:148:GLY:HA3	34:DN:149:PRO:O	1.94	0.67
28:BE:118:LYS:HE2	38:BR:2:ARG:NH1	2.10	0.67
45:DY:8:LYS:HZ2	45:DY:8:LYS:N	1.93	0.67
18:AP:13:HIS:C	18:AP:15:PRO:HD3	2.15	0.67
1:AA:1508:G:H2'	1:AA:1509:C:H6	1.59	0.67
25:DA:107:C:H2'	25:DA:108:U:H6	1.60	0.67
24:CX:112:ARG:HB2	24:CX:198:THR:HG23	1.77	0.67
24:CX:283:GLU:HG3	24:CX:287:LYS:HE3	1.77	0.67
25:BA:441:U:H2'	25:BA:442:G:C8	2.29	0.67
43:DW:29:LEU:HD22	43:DW:69:LEU:HD11	1.77	0.67
25:BA:833:U:H2'	25:BA:834:C:C6	2.30	0.67
1:AA:279:A:H2'	19:AQ:95:TYR:HE2	1.60	0.67
1:AA:950:U:H2'	1:AA:951:G:H8	1.59	0.67
44:BX:34:ALA:HB1	44:BX:39:ILE:HD11	1.77	0.67
16:CN:32:SER:HB3	16:CN:41:ARG:HG2	1.77	0.67
25:BA:1309:G:H4'	54:B7:7:PRO:HB2	1.77	0.67
28:BE:132:HIS:CG	28:BE:135:HIS:HE2	2.12	0.67
15:AM:27:LYS:HG3	15:AM:31:LYS:HE3	1.77	0.67
24:CX:85:LYS:O	24:CX:89:GLU:HG2	1.94	0.67
15:AM:44:ARG:HB2	15:AM:46:LYS:HG2	1.77	0.67
2:CZ:71:C:H4'	25:DA:1851:U:H4'	1.77	0.67
1:AA:168:G:H2'	1:AA:169:C:H5''	1.77	0.67
15:CM:49:THR:HG22	15:CM:51:ALA:H	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BI:6:LEU:HA	32:BI:15:VAL:HG13	1.77	0.67
25:DA:1056:G:H4'	25:DA:1086:A:H8	1.59	0.67
12:AJ:75:ILE:HG13	12:AJ:76:ASN:H	1.59	0.67
38:DR:51:LEU:HD22	38:DR:66:VAL:HG13	1.77	0.67
25:BA:1131:G:H4'	25:BA:1132:A:OP1	1.95	0.67
48:D1:11:ARG:NH1	48:D1:61:ARG:H	1.93	0.67
25:DA:197:A:H5'	25:DA:197:A:H8	1.58	0.67
55:B8:14:VAL:HG22	55:B8:24:ALA:HB2	1.77	0.67
27:BD:146:GLU:HA	27:BD:153:ALA:HA	1.75	0.67
1:CA:304:U:H2'	1:CA:305:G:C8	2.30	0.67
25:DA:1483:G:H2'	25:DA:1484:G:C8	2.29	0.67
2:AY:23:C:H2'	2:AY:24:U:C6	2.29	0.67
25:BA:2275:C:H5'	25:BA:2275:C:H6	1.60	0.67
49:D2:33:MET:O	49:D2:37:PHE:HB2	1.95	0.67
25:BA:729:G:N7	27:BD:208:LYS:HB2	2.09	0.66
24:AX:163:ARG:HH12	24:AX:204:LYS:HD3	1.59	0.66
25:BA:2747:G:O6	25:BA:2755:C:H5''	1.96	0.66
25:DA:2298:A:H2'	25:DA:2299:G:O4'	1.94	0.66
28:BE:173:VAL:HG12	28:BE:174:ASP:H	1.60	0.66
5:AC:185:GLY:HA3	5:AC:200:ALA:HB3	1.76	0.66
7:AE:43:LEU:HD11	7:AE:132:ALA:HB1	1.76	0.66
38:BR:12:ARG:HD3	38:BR:16:HIS:ND1	2.09	0.66
44:BX:83:VAL:HB	44:BX:87:GLN:HE21	1.60	0.66
13:CK:44:SER:H	13:CK:47:VAL:HB	1.60	0.66
18:CP:13:HIS:C	18:CP:15:PRO:HD3	2.15	0.66
25:DA:1658:C:H42	25:DA:2002:G:H1	1.43	0.66
25:DA:691:C:H2'	25:DA:692:C:C6	2.29	0.66
35:DO:8:LEU:HB2	35:DO:19:ILE:HD11	1.77	0.66
1:CA:829:G:H2'	1:CA:830:G:H8	1.61	0.66
9:AG:15:ASP:HB3	9:AG:20:ASP:H	1.59	0.66
25:DA:2314:C:H2'	25:DA:2315:G:H8	1.60	0.66
14:CL:74:HIS:CD2	14:CL:76:LEU:H	2.12	0.66
36:DP:46:LYS:HE2	25:DA:195:A:OP1	1.94	0.66
1:CA:684:A:H1'	13:CK:39:PRO:HD2	1.76	0.66
6:AD:169:LYS:HE2	8:CF:21:LEU:HD12	1.78	0.66
48:D1:25:LYS:HG2	48:D1:35:THR:HG22	1.78	0.66
45:BY:50:ARG:HD3	45:BY:51:VAL:H	1.60	0.66
1:CA:900:A:H2'	1:CA:901:A:C8	2.30	0.66
25:DA:806:C:O2'	25:DA:2445:G:H4'	1.96	0.66
25:DA:2661:G:H2'	25:DA:2662:A:C8	2.30	0.66
1:AA:1224:G:H4'	15:AM:102:ARG:HH22	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1766:U:H2'	25:DA:1767:C:H6	1.60	0.66
1:AA:900:A:H2'	1:AA:901:A:C8	2.30	0.66
44:DX:51:VAL:HG12	44:DX:52:VAL:H	1.59	0.66
25:BA:1161:C:O2'	42:BV:23:GLU:HG2	1.96	0.66
1:AA:1117:G:H4'	11:AI:104:ARG:NH2	2.10	0.66
1:CA:1505:G:H4'	1:CA:1506:U:H5'	1.78	0.66
1:AA:829:G:H2'	1:AA:830:G:H8	1.61	0.66
8:CF:76:ALA:O	8:CF:80:ARG:HG2	1.95	0.66
45:DY:50:ARG:HD3	45:DY:51:VAL:H	1.61	0.66
1:AA:304:U:H2'	1:AA:305:G:C8	2.31	0.66
25:BA:2502:G:H5'	25:BA:2503:A:H5''	1.77	0.66
53:B6:11:LEU:HD11	53:B6:51:GLU:HG3	1.76	0.66
25:BA:2287:A:H62	25:BA:2344:U:H3	1.41	0.66
1:CA:986:A:H1'	21:CS:54:GLY:O	1.96	0.66
1:CA:1508:G:H2'	1:CA:1509:C:H6	1.59	0.66
5:CC:14:ILE:HG23	5:CC:15:THR:H	1.61	0.66
30:DG:7:LEU:HD23	30:DG:10:LYS:HD2	1.77	0.66
11:AI:44:VAL:HB	11:AI:51:ARG:HH22	1.60	0.66
53:D6:11:LEU:HD11	53:D6:51:GLU:HG3	1.76	0.66
1:AA:559:A:H4'	1:AA:560:U:H5''	1.78	0.66
39:DS:13:ARG:HH22	25:DA:2335:A:H2'	1.61	0.66
1:AA:194:C:H2'	1:AA:195:A:H5''	1.78	0.66
25:BA:2399:G:H1'	53:B6:21:TYR:HE1	1.58	0.66
29:DF:117:ARG:HG3	29:DF:122:LYS:HB2	1.78	0.66
15:CM:27:LYS:HG3	15:CM:31:LYS:HE3	1.77	0.66
44:BX:51:VAL:HG12	44:BX:52:VAL:H	1.60	0.66
32:DI:72:LEU:HD12	32:DI:140:LEU:HD13	1.77	0.66
1:AA:1505:G:H4'	1:AA:1506:U:H5'	1.76	0.66
1:AA:684:A:H1'	13:AK:39:PRO:HD2	1.75	0.66
15:AM:16:ASP:HB3	15:AM:34:LEU:HD11	1.77	0.66
25:DA:833:U:H2'	25:DA:834:C:C6	2.31	0.66
25:BA:1791:A:H3'	25:BA:1792:G:C8	2.31	0.66
7:CE:70:PRO:HB3	7:CE:144:THR:HG22	1.78	0.66
25:BA:1056:G:H4'	25:BA:1086:A:H8	1.59	0.66
18:CP:21:VAL:HG23	18:CP:33:ILE:HB	1.77	0.66
13:CK:21:ILE:HG13	13:CK:30:VAL:HG12	1.78	0.66
12:CJ:75:ILE:HG13	12:CJ:76:ASN:H	1.59	0.66
34:BN:70:ALA:HB2	34:BN:135:LEU:HD12	1.78	0.66
32:DI:76:THR:HG22	32:DI:141:LYS:HD3	1.78	0.66
25:BA:94:G:H21	49:B2:47:ASN:ND2	1.94	0.66
25:BA:1060:U:H4'	25:BA:1061:U:H3'	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DX:26:TYR:O	44:DX:81:VAL:HG22	1.96	0.66
1:AA:1144:G:H21	1:AA:1146:A:H62	1.43	0.66
27:BD:243:GLY:O	27:BD:244:ARG:HB2	1.96	0.66
25:BA:295:G:H4'	45:BY:2:ARG:NH1	2.11	0.66
12:AJ:50:ILE:HB	16:AN:41:ARG:NH2	2.11	0.66
1:CA:244:U:H5'	1:CA:244:U:C6	2.29	0.66
28:BE:51:PHE:H	28:BE:75:VAL:HB	1.60	0.66
27:DD:81:ALA:HB3	27:DD:94:LEU:HB3	1.78	0.66
1:CA:505:G:H2'	1:CA:506:G:H8	1.59	0.66
38:BR:51:LEU:HD22	38:BR:66:VAL:HG13	1.76	0.66
24:AX:316:ARG:HE	24:AX:346:ARG:HH22	1.44	0.66
25:BA:2074:U:H2'	25:BA:2075:U:C6	2.31	0.66
25:BA:245:G:O6	55:B8:8:LYS:HE3	1.95	0.66
6:CD:98:GLU:HA	6:CD:103:ASN:ND2	2.11	0.66
48:D1:32:LYS:HG2	48:D1:33:LYS:H	1.61	0.66
42:DV:23:GLU:HG2	25:DA:1161:C:O2'	1.96	0.66
48:B1:11:ARG:HB3	48:B1:12:PRO:CD	2.26	0.66
13:AK:44:SER:H	13:AK:47:VAL:HB	1.61	0.66
43:DW:14:PRO:O	43:DW:18:ARG:HG3	1.95	0.66
8:AF:76:ALA:O	8:AF:80:ARG:HG2	1.96	0.66
7:CE:43:LEU:HD11	7:CE:132:ALA:HB1	1.77	0.66
20:CR:45:SER:HB3	20:CR:51:LEU:HG	1.78	0.66
49:B2:33:MET:O	49:B2:37:PHE:HB2	1.96	0.66
8:AF:12:PRO:HD3	8:AF:58:GLY:HA2	1.76	0.66
31:BH:162:ILE:H	31:BH:162:ILE:HD13	1.61	0.66
25:BA:581:C:H2'	25:BA:582:G:C8	2.30	0.66
1:CA:523:A:N1	14:CL:91:ASP:HB2	2.11	0.66
25:DA:441:U:H2'	25:DA:442:G:C8	2.31	0.66
25:DA:2747:G:O6	25:DA:2755:C:H5''	1.96	0.66
27:DD:67:PHE:HE1	27:DD:157:ARG:NH1	1.94	0.66
25:BA:1681:G:O2'	25:BA:1762:A:H2'	1.96	0.66
9:CG:146:GLU:OE1	9:CG:149:ARG:HD2	1.96	0.66
45:DY:81:LYS:HD3	45:DY:97:ARG:HB3	1.78	0.65
44:DX:83:VAL:HB	44:DX:87:GLN:HE21	1.61	0.65
42:BV:5:VAL:HG23	42:BV:37:VAL:HG23	1.78	0.65
44:BX:35:THR:HG22	44:BX:37:THR:H	1.61	0.65
1:CA:1313:U:OP1	21:CS:6:LYS:HG3	1.97	0.65
32:BI:31:LEU:HD13	32:BI:37:VAL:HA	1.76	0.65
1:CA:168:G:H2'	1:CA:169:C:H5''	1.77	0.65
48:B1:32:LYS:HG2	48:B1:33:LYS:H	1.60	0.65
15:AM:49:THR:HG22	15:AM:51:ALA:H	1.60	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AD:98:GLU:HA	6:AD:103:ASN:ND2	2.11	0.65
30:DG:136:ARG:O	30:DG:154:GLY:HA2	1.96	0.65
1:AA:523:A:N1	14:AL:91:ASP:HB2	2.11	0.65
25:DA:1111:A:N3	25:DA:1112:G:H1'	2.11	0.65
35:BO:8:LEU:HB2	35:BO:19:ILE:HD11	1.77	0.65
27:DD:243:GLY:O	27:DD:244:ARG:HB2	1.95	0.65
7:AE:91:LEU:HB3	7:AE:118:ILE:HD11	1.78	0.65
1:CA:1413:A:H2	1:CA:1487:G:H22	1.45	0.65
49:D2:21:LEU:HA	49:D2:64:LEU:HD13	1.78	0.65
25:DA:671:C:H42	25:DA:809:G:H1	1.44	0.65
25:BA:1568:G:H5''	27:BD:61:LEU:HD13	1.78	0.65
25:BA:27:G:HO2'	25:BA:28:A:H8	1.42	0.65
27:DD:61:LEU:HD13	25:DA:1568:G:H5''	1.78	0.65
30:BG:136:ARG:O	30:BG:154:GLY:HA2	1.95	0.65
1:CA:194:C:H2'	1:CA:195:A:H5''	1.78	0.65
30:BG:36:LYS:HB3	30:BG:160:VAL:HB	1.77	0.65
35:DO:22:ILE:HG23	25:DA:1952:A:C2	2.31	0.65
2:CY:23:C:H2'	2:CY:24:U:C6	2.31	0.65
50:B3:8:LEU:HD12	50:B3:31:LEU:HA	1.79	0.65
1:CA:1348:U:H4'	11:CI:120:ARG:HD2	1.79	0.65
27:DD:30:GLU:HG3	27:DD:63:ARG:HH21	1.60	0.65
7:CE:72:GLN:O	7:CE:75:THR:HG22	1.97	0.65
43:DW:8:ARG:HA	43:DW:102:HIS:HD2	1.61	0.65
24:AX:283:GLU:HG3	24:AX:287:LYS:HE3	1.77	0.65
28:DE:173:VAL:HG12	28:DE:174:ASP:H	1.59	0.65
30:BG:76:SER:HA	30:BG:83:ARG:HA	1.78	0.65
17:AO:82:ILE:HG12	17:AO:87:ILE:HG13	1.78	0.65
25:BA:661:C:O3'	36:BP:18:ARG:HG2	1.97	0.65
21:AS:29:ARG:HD3	21:AS:48:THR:HB	1.78	0.65
25:DA:519:U:H2'	25:DA:520:G:C8	2.31	0.65
25:BA:1105:U:H2'	25:BA:1106:G:H8	1.62	0.65
25:DA:1060:U:H4'	25:DA:1061:U:H3'	1.78	0.65
21:AS:19:VAL:HG21	21:AS:44:MET:HG3	1.79	0.65
40:BT:41:ARG:HD2	40:BT:42:ILE:H	1.61	0.65
40:BT:59:THR:O	40:BT:78:LEU:HB2	1.95	0.65
25:BA:1316:U:H2'	25:BA:1317:A:C8	2.32	0.65
25:BA:2164:C:H2'	25:BA:2165:G:H8	1.60	0.65
4:CB:169:LYS:HE2	4:CB:169:LYS:O	1.97	0.65
1:CA:279:A:H2'	19:CQ:95:TYR:HE2	1.60	0.65
8:CF:36:ARG:HH21	8:CF:38:GLU:HG2	1.60	0.65
19:CQ:45:HIS:CD2	19:CQ:47:PRO:HD3	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1348:U:H4'	11:AI:120:ARG:HD2	1.79	0.65
25:BA:1658:C:H42	25:BA:2002:G:H1	1.43	0.65
40:DT:59:THR:O	40:DT:78:LEU:HB2	1.95	0.65
32:DI:6:LEU:HA	32:DI:15:VAL:HG13	1.77	0.65
27:BD:78:LYS:HD3	27:BD:114:GLY:HA2	1.79	0.65
1:AA:908:A:H2'	1:AA:909:A:C8	2.31	0.65
31:DH:162:ILE:HD13	31:DH:162:ILE:H	1.61	0.65
13:AK:21:ILE:HG13	13:AK:30:VAL:HG12	1.77	0.65
36:DP:18:ARG:HG2	25:DA:661:C:O3'	1.97	0.65
25:BA:1358:G:O2'	25:BA:1359:A:H5''	1.97	0.65
41:BU:31:SER:O	41:BU:32:PHE:C	2.34	0.65
25:BA:1111:A:N3	25:BA:1112:G:H1'	2.11	0.65
34:DN:157:ARG:N	34:DN:158:PRO:HD3	2.12	0.65
45:DY:81:LYS:HD2	45:DY:96:ILE:HD12	1.77	0.65
44:BX:28:PHE:HE2	44:BX:92:LEU:HD11	1.62	0.65
42:DV:5:VAL:HG23	42:DV:37:VAL:HG23	1.78	0.65
7:CE:76:ILE:CG1	7:CE:77:PRO:HD2	2.26	0.65
25:DA:587:C:C5	25:DA:671:C:H1'	2.31	0.65
1:AA:1520:G:H2'	1:AA:1521:G:C8	2.32	0.65
25:DA:1152:C:H2'	25:DA:1153:C:H6	1.62	0.65
20:AR:45:SER:HB3	20:AR:51:LEU:HG	1.79	0.65
25:BA:2661:G:H2'	25:BA:2662:A:C8	2.31	0.65
1:CA:908:A:H2'	1:CA:909:A:C8	2.31	0.65
16:AN:45:ARG:HG2	16:AN:49:HIS:CD2	2.32	0.65
25:DA:270(T):G:H2'	25:DA:270(U):G:C8	2.31	0.65
25:DA:1548:C:H2'	25:DA:1549:C:H6	1.59	0.65
30:BG:7:LEU:HD23	30:BG:10:LYS:HD2	1.77	0.65
43:BW:8:ARG:HA	43:BW:102:HIS:HD2	1.62	0.65
7:AE:70:PRO:HB3	7:AE:144:THR:HG22	1.78	0.65
14:AL:65:VAL:HG11	14:AL:97:TYR:CE1	2.32	0.65
36:DP:24:GLY:HA3	36:DP:33:ARG:NH1	2.12	0.65
52:D5:45:VAL:HG13	52:D5:51:TYR:HB2	1.79	0.65
44:DX:35:THR:HG22	44:DX:37:THR:H	1.61	0.65
45:BY:81:LYS:HD2	45:BY:96:ILE:HD12	1.77	0.65
1:CA:1144:G:H21	1:CA:1146:A:H62	1.43	0.65
29:BF:63:LYS:NZ	29:BF:67:GLN:HE21	1.92	0.65
27:DD:208:LYS:HB2	25:DA:729:G:N7	2.11	0.65
25:BA:519:U:H2'	25:BA:520:G:C8	2.32	0.65
53:D6:19:ARG:HB2	25:DA:2400:G:H4'	1.79	0.65
43:BW:73:ALA:HB3	43:BW:106:ILE:HD11	1.79	0.65
7:CE:91:LEU:HB3	7:CE:118:ILE:HD11	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:67:PHE:HE1	27:BD:157:ARG:NH1	1.95	0.65
31:DH:20:ALA:HB1	31:DH:21:PRO:HD2	1.79	0.65
15:AM:19:LEU:HD13	15:AM:22:ILE:HG13	1.78	0.65
24:CX:316:ARG:HE	24:CX:346:ARG:HH22	1.44	0.65
27:DD:144:ALA:HB3	27:DD:192:THR:CG2	2.27	0.65
25:DA:1681:G:O2'	25:DA:1762:A:H2'	1.97	0.65
1:AA:986:A:H1'	21:AS:54:GLY:O	1.96	0.65
36:BP:24:GLY:HA3	36:BP:33:ARG:HH11	1.62	0.65
21:CS:29:ARG:HD3	21:CS:48:THR:HB	1.78	0.65
46:BZ:10:ARG:HG2	46:BZ:11:GLU:N	2.12	0.65
33:BJ:17:LEU:HD22	33:BJ:21:GLN:NE2	2.12	0.65
12:CJ:32:ALA:H	12:CJ:78:ASN:HD21	1.45	0.65
1:CA:125:U:H2'	1:CA:126:G:C8	2.31	0.65
25:BA:1952:A:C2	35:BO:22:ILE:HG23	2.32	0.65
49:B2:38:GLN:O	49:B2:41:ILE:HG12	1.96	0.65
47:D0:32:ARG:N	47:D0:35:ASN:HD21	1.95	0.65
15:AM:67:GLU:HG3	15:AM:68:GLY:H	1.61	0.65
1:CA:1520:G:H2'	1:CA:1521:G:C8	2.31	0.65
15:AM:87:TYR:O	15:AM:91:ARG:HG2	1.97	0.65
25:BA:1693:U:H1'	27:BD:14:ARG:HH22	1.62	0.64
25:DA:813:U:H2'	25:DA:814:C:C6	2.33	0.64
33:DJ:17:LEU:HD22	33:DJ:21:GLN:NE2	2.12	0.64
51:D4:48:ILE:H	51:D4:48:ILE:HD12	1.61	0.64
25:DA:581:C:H2'	25:DA:582:G:C8	2.32	0.64
44:BX:26:TYR:O	44:BX:81:VAL:HG22	1.97	0.64
48:D1:45:ASN:C	48:D1:45:ASN:HD22	2.01	0.64
4:AB:88:ALA:HB2	4:AB:219:VAL:HG13	1.79	0.64
36:BP:57:THR:HG23	36:BP:59:LEU:HB3	1.78	0.64
38:DR:104:ARG:HG2	38:DR:104:ARG:NH1	2.09	0.64
28:DE:76:ARG:HG2	28:DE:77:ILE:HG13	1.78	0.64
39:DS:33:LYS:HD3	39:DS:33:LYS:O	1.97	0.64
25:BA:107:C:H2'	25:BA:108:U:H6	1.61	0.64
25:DA:2074:U:H2'	25:DA:2075:U:C6	2.32	0.64
40:DT:41:ARG:HD2	40:DT:42:ILE:H	1.61	0.64
11:AI:103:THR:HG22	11:AI:105:ASP:H	1.61	0.64
34:BN:157:ARG:N	34:BN:158:PRO:HD3	2.12	0.64
27:DD:140:THR:HG22	27:DD:141:VAL:H	1.62	0.64
44:DX:34:ALA:HB1	44:DX:39:ILE:HD11	1.78	0.64
45:BY:75:ILE:HG12	45:BY:76:CYS:H	1.61	0.64
25:BA:691:C:H2'	25:BA:692:C:H6	1.62	0.64
1:AA:579:G:H5'	1:AA:728:A:H1'	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:B4:48:ILE:H	51:B4:48:ILE:HD12	1.61	0.64
25:DA:2134:A:N6	25:DA:2157:G:H1'	2.12	0.64
5:AC:31:HIS:O	5:AC:35:GLU:HG2	1.97	0.64
14:CL:65:VAL:HG11	14:CL:97:TYR:CE1	2.32	0.64
16:AN:32:SER:HB3	16:AN:41:ARG:HG2	1.77	0.64
1:AA:244:U:H5'	1:AA:244:U:C6	2.29	0.64
36:DP:24:GLY:HA3	36:DP:33:ARG:HH11	1.62	0.64
27:BD:30:GLU:HG3	27:BD:63:ARG:HH21	1.60	0.64
25:BA:626:U:H3	36:BP:105:LEU:HB3	1.61	0.64
7:CE:81:GLU:HA	7:CE:90:VAL:HG22	1.78	0.64
25:BA:806:C:O2'	25:BA:2445:G:H4'	1.98	0.64
32:BI:76:THR:HG22	32:BI:141:LYS:HD3	1.79	0.64
11:CI:103:THR:HG22	11:CI:105:ASP:H	1.61	0.64
6:AD:4:TYR:HE1	6:AD:11:LEU:HD11	1.63	0.64
34:DN:70:ALA:HB2	34:DN:135:LEU:HD12	1.79	0.64
31:BH:20:ALA:HB1	31:BH:21:PRO:HD2	1.79	0.64
25:DA:1541:U:H3'	25:DA:1542:G:C3'	2.26	0.64
30:DG:76:SER:HA	30:DG:83:ARG:HA	1.78	0.64
8:CF:12:PRO:HD3	8:CF:58:GLY:HA2	1.77	0.64
25:BA:270(T):G:H2'	25:BA:270(U):G:C8	2.32	0.64
28:DE:201:THR:HG22	28:DE:202:LYS:H	1.61	0.64
31:BH:68:THR:O	31:BH:72:ILE:HG12	1.97	0.64
46:DZ:27:VAL:HA	46:DZ:37:VAL:HG22	1.80	0.64
49:D2:47:ASN:ND2	25:DA:94:G:H21	1.96	0.64
25:BA:1678:G:H2'	25:BA:1679:U:H6	1.63	0.64
25:BA:1541:U:H3'	25:BA:1542:G:C3'	2.27	0.64
39:DS:24:LEU:O	39:DS:86:ALA:HB3	1.96	0.64
25:BA:1496:A:H1'	25:BA:1577:C:O2'	1.98	0.64
25:BA:1693:U:H1'	27:BD:14:ARG:NH2	2.12	0.64
25:DA:1405:U:H2'	25:DA:1406:U:C6	2.33	0.64
25:BA:2010:G:H5''	43:BW:42:ARG:HB2	1.80	0.64
25:BA:1152:C:H2'	25:BA:1153:C:H6	1.62	0.64
27:BD:81:ALA:HB3	27:BD:94:LEU:HB3	1.79	0.64
9:AG:15:ASP:HA	9:AG:24:THR:HG23	1.78	0.64
34:BN:29:PRO:HG3	34:BN:66:THR:OG1	1.96	0.64
47:D0:74:ARG:HG2	26:DB:12:C:O2'	1.97	0.64
27:BD:140:THR:HG22	27:BD:141:VAL:H	1.62	0.64
25:DA:1419:A:O2'	25:DA:1420:U:H5''	1.97	0.64
28:DE:143:ASN:O	25:DA:2052:G:H4'	1.98	0.64
49:D2:48:HIS:CE1	49:D2:49:LYS:HD2	2.33	0.64
1:CA:1128:C:H4'	11:CI:16:ARG:NH1	2.13	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DF:63:LYS:NZ	29:DF:67:GLN:HE21	1.93	0.64
25:DA:1495:A:H2'	25:DA:1495:A:N3	2.13	0.64
2:AY:56:C:H1'	30:BG:76:SER:HB3	1.78	0.64
36:BP:24:GLY:HA3	36:BP:33:ARG:NH1	2.12	0.64
43:DW:42:ARG:HB2	25:DA:2010:G:H5''	1.79	0.64
28:BE:76:ARG:HG2	28:BE:77:ILE:HG13	1.80	0.64
36:DP:40:SER:C	36:DP:41:ARG:HD2	2.18	0.64
25:BA:651:G:H2'	25:BA:652:U:H5''	1.80	0.64
25:DA:1358:G:O2'	25:DA:1359:A:H5''	1.96	0.64
25:DA:1173:G:HO2'	25:DA:1175:U:H6	1.44	0.64
12:AJ:74:ILE:HD13	12:AJ:74:ILE:H	1.61	0.64
1:AA:125:U:H2'	1:AA:126:G:C8	2.32	0.64
24:AX:274:LEU:HD11	24:AX:278:ARG:HE	1.63	0.64
1:CA:392:G:H2'	1:CA:393:A:H8	1.63	0.64
16:CN:37:PHE:HZ	16:CN:56:VAL:HG21	1.63	0.64
27:DD:132:PRO:HD3	27:DD:190:TYR:CE2	2.33	0.64
28:BE:201:THR:HG22	28:BE:202:LYS:H	1.62	0.64
50:B3:6:VAL:HG12	50:B3:54:VAL:HB	1.80	0.64
14:CL:44:PRO:HG2	14:CL:50:ALA:H	1.63	0.64
36:DP:57:THR:HG23	36:DP:59:LEU:HB3	1.79	0.64
5:CC:58:GLU:O	5:CC:64:VAL:HA	1.98	0.64
25:BA:671:C:H42	25:BA:809:G:H1	1.45	0.64
36:DP:23:PRO:HB2	36:DP:33:ARG:HG3	1.80	0.64
1:AA:1227:A:N3	1:AA:1227:A:H2'	2.12	0.64
1:CA:1346:A:H61	1:CA:1374:A:H3'	1.62	0.64
15:CM:4:ILE:HA	15:CM:57:ARG:HG3	1.80	0.64
1:AA:735:C:H2'	1:AA:736:C:C6	2.33	0.64
34:DN:79:ASN:HD21	34:DN:149:PRO:HD3	1.62	0.64
25:BA:2400:G:H4'	53:B6:19:ARG:HB2	1.80	0.64
25:BA:2134:A:N6	25:BA:2157:G:H1'	2.12	0.64
36:DP:105:LEU:HB3	25:DA:626:U:H3	1.61	0.64
20:CR:59:SER:HB3	20:CR:62:GLU:HG3	1.79	0.64
26:BB:12:C:O2'	47:B0:74:ARG:HG2	1.97	0.64
44:BX:35:THR:O	44:BX:39:ILE:HG12	1.97	0.64
45:DY:2:ARG:NH1	25:DA:295:G:H4'	2.13	0.64
50:D3:8:LEU:HD12	50:D3:31:LEU:HA	1.78	0.64
38:BR:104:ARG:HG2	38:BR:104:ARG:NH1	2.07	0.64
24:AX:84:ARG:O	24:AX:88:LEU:HG	1.98	0.64
34:DN:29:PRO:HG3	34:DN:66:THR:OG1	1.97	0.64
25:DA:1437:C:H2'	25:DA:1438:U:C6	2.32	0.64
25:DA:1165:U:H2'	25:DA:1166:C:C6	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:559:A:H4'	1:CA:560:U:H5''	1.78	0.64
25:DA:830:G:H4'	25:DA:831:G:OP2	1.98	0.64
38:BR:84:ALA:HB3	38:BR:85:PRO:HD3	1.80	0.64
24:CX:274:LEU:HD11	24:CX:278:ARG:HE	1.63	0.64
49:B2:21:LEU:HA	49:B2:64:LEU:HD13	1.79	0.64
1:CA:687:A:H1'	1:CA:688:G:O4'	1.98	0.64
43:DW:73:ALA:HB3	43:DW:106:ILE:HD11	1.79	0.64
55:D8:14:VAL:HG22	55:D8:24:ALA:HB2	1.78	0.64
21:CS:19:VAL:HG21	21:CS:44:MET:HG3	1.79	0.64
15:CM:67:GLU:HG3	15:CM:68:GLY:H	1.62	0.64
6:CD:4:TYR:HE1	6:CD:11:LEU:HD11	1.63	0.64
25:BA:1437:C:H2'	25:BA:1438:U:C6	2.32	0.64
29:DF:24:LEU:HD12	29:DF:24:LEU:H	1.63	0.64
25:DA:1542:G:H1'	25:DA:1543:A:C4	2.34	0.63
37:BQ:51:ARG:O	37:BQ:55:VAL:HG13	1.98	0.63
39:BS:24:LEU:O	39:BS:86:ALA:HB3	1.97	0.63
5:CC:195:VAL:HG12	5:CC:196:LEU:H	1.62	0.63
46:DZ:10:ARG:HG2	46:DZ:11:GLU:N	2.12	0.63
25:BA:1676:A:C2	25:BA:1993:U:H5'	2.32	0.63
40:DT:27:THR:HA	40:DT:48:ILE:HA	1.80	0.63
1:CA:537:G:H5''	14:CL:112:ARG:HH22	1.62	0.63
15:CM:68:GLY:HA3	30:DG:116:ASP:OD2	1.98	0.63
14:CL:81:VAL:HG23	14:CL:104:TYR:HB3	1.79	0.63
19:AQ:45:HIS:CD2	19:AQ:47:PRO:HD3	2.32	0.63
12:CJ:74:ILE:H	12:CJ:74:ILE:HD13	1.62	0.63
25:BA:407:G:H2'	25:BA:408:G:H8	1.63	0.63
9:AG:12:LEU:H	9:AG:12:LEU:HD23	1.63	0.63
25:BA:1980:G:H3'	25:BA:1981:A:H5''	1.79	0.63
1:AA:1313:U:OP1	21:AS:6:LYS:HG3	1.97	0.63
36:DP:64:LYS:HD2	55:D8:25:MET:SD	2.39	0.63
5:AC:195:VAL:HG12	5:AC:196:LEU:H	1.62	0.63
39:BS:33:LYS:HD3	39:BS:33:LYS:O	1.96	0.63
32:BI:72:LEU:HD12	32:BI:140:LEU:HD13	1.79	0.63
45:BY:45:VAL:HA	45:BY:62:GLU:HA	1.80	0.63
25:BA:771:G:P	54:B7:10:ARG:HH12	2.21	0.63
45:DY:10:GLY:HA2	45:DY:27:VAL:HG23	1.80	0.63
30:BG:6:ALA:HB1	30:BG:10:LYS:HE3	1.80	0.63
25:BA:1165:U:H2'	25:BA:1166:C:C6	2.34	0.63
41:BU:49:HIS:HA	41:BU:52:ARG:HB2	1.81	0.63
4:AB:112:VAL:O	4:AB:115:LEU:HB3	1.98	0.63
25:DA:284:U:H2'	25:DA:285:C:C6	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:144:ALA:HB3	27:BD:192:THR:CG2	2.28	0.63
36:DP:6:LEU:H	36:DP:6:LEU:HD23	1.63	0.63
4:CB:112:VAL:O	4:CB:115:LEU:HB3	1.99	0.63
27:DD:47:GLY:HA3	25:DA:773:U:C4'	2.29	0.63
44:DX:84:ALA:O	44:DX:87:GLN:HG2	1.99	0.63
41:DU:92:ARG:CD	41:DU:94:ASN:HB3	2.29	0.63
42:BV:72:VAL:HG22	42:BV:85:LYS:O	1.98	0.63
39:DS:24:LEU:HD13	39:DS:82:ILE:HG23	1.81	0.63
4:CB:88:ALA:HB2	4:CB:219:VAL:HG13	1.80	0.63
40:BT:50:ILE:HA	40:BT:99:LEU:HD11	1.81	0.63
43:DW:96:ILE:HD11	25:DA:2012:G:O2'	1.99	0.63
25:BA:2873:A:C2	38:BR:6:SER:HB2	2.34	0.63
25:DA:1796:U:H2'	25:DA:1797:C:C6	2.32	0.63
25:DA:1980:G:H3'	25:DA:1981:A:H5''	1.80	0.63
34:DN:93:LYS:HB3	34:DN:110:LEU:HB2	1.80	0.63
12:CJ:6:ILE:HG12	12:CJ:72:VAL:O	1.98	0.63
20:AR:54:ARG:N	20:AR:54:ARG:HD2	2.14	0.63
25:BA:1419:A:O2'	25:BA:1420:U:H5''	1.98	0.63
30:BG:39:ILE:HG23	30:BG:157:ILE:HG22	1.80	0.63
25:DA:1791:A:H3'	25:DA:1792:G:C8	2.32	0.63
37:BQ:55:VAL:HG12	37:BQ:64:ILE:CD1	2.24	0.63
41:DU:50:ARG:NH2	42:DV:72:VAL:HG12	2.11	0.63
25:BA:1495:A:N3	25:BA:1495:A:H2'	2.12	0.63
7:AE:76:ILE:CG1	7:AE:77:PRO:HD2	2.27	0.63
17:CO:82:ILE:HG12	17:CO:87:ILE:HG13	1.79	0.63
1:AA:1413:A:H2	1:AA:1487:G:H22	1.46	0.63
25:BA:587:C:C5	25:BA:671:C:H1'	2.32	0.63
36:BP:23:PRO:HB2	36:BP:33:ARG:HG3	1.80	0.63
12:CJ:54:PHE:CD2	12:CJ:55:LYS:HG3	2.33	0.63
12:AJ:54:PHE:CD2	12:AJ:55:LYS:HG3	2.32	0.63
25:DA:270(S):G:O2'	25:DA:270(T):G:H5'	1.98	0.63
25:DA:2804:C:H2'	25:DA:2805:G:C8	2.33	0.63
35:BO:68:GLU:HB3	35:BO:78:ARG:HB2	1.79	0.63
25:BA:291:C:H2'	25:BA:292:C:C6	2.33	0.63
15:CM:19:LEU:HD13	15:CM:22:ILE:HG13	1.78	0.63
25:BA:2335:A:H2'	39:BS:13:ARG:HH22	1.61	0.63
45:BY:71:LYS:NZ	45:BY:71:LYS:HB2	2.12	0.63
20:CR:54:ARG:HD2	20:CR:54:ARG:N	2.14	0.63
7:AE:72:GLN:O	7:AE:75:THR:HG22	1.98	0.63
1:AA:1346:A:H61	1:AA:1374:A:H3'	1.63	0.63
25:DA:1496:A:H1'	25:DA:1577:C:O2'	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CC:31:HIS:O	5:CC:35:GLU:HG2	1.98	0.63
1:CA:377:G:H2'	1:CA:378:G:H8	1.63	0.63
25:DA:651:G:H2'	25:DA:652:U:H5''	1.80	0.63
4:AB:169:LYS:HE2	4:AB:169:LYS:O	1.96	0.63
25:DA:1498:C:H2'	25:DA:1499:C:C6	2.34	0.63
16:CN:45:ARG:HG2	16:CN:49:HIS:CD2	2.33	0.63
44:DX:28:PHE:HE2	44:DX:92:LEU:HD11	1.63	0.63
44:BX:84:ALA:O	44:BX:87:GLN:HG2	1.99	0.63
1:AA:1371:G:OP1	11:AI:11:LYS:HB3	1.99	0.63
4:AB:70:PHE:O	4:AB:92:TYR:HA	1.99	0.63
48:B1:45:ASN:C	48:B1:45:ASN:HD22	2.01	0.63
25:BA:2014:A:H2'	25:BA:2015:A:C8	2.34	0.63
25:BA:2012:G:O2'	43:BW:96:ILE:HD11	1.98	0.63
45:BY:10:GLY:HA2	45:BY:27:VAL:HG23	1.80	0.63
25:DA:189:G:H2'	25:DA:205:G:H22	1.62	0.63
25:DA:691:C:H2'	25:DA:692:C:H6	1.63	0.63
46:BZ:27:VAL:HA	46:BZ:37:VAL:HG22	1.80	0.63
36:DP:14:LYS:O	36:DP:15:ARG:HB2	1.97	0.63
1:AA:484:G:H4'	1:AA:485:G:O5'	1.99	0.63
45:BY:86:ARG:HH11	45:BY:95:LYS:HE3	1.63	0.63
31:DH:68:THR:O	31:DH:72:ILE:HG12	1.97	0.63
25:DA:291:C:H2'	25:DA:292:C:C6	2.33	0.63
29:BF:51:THR:HB	29:BF:88:VAL:HG11	1.80	0.63
37:BQ:23:GLY:HA3	37:BQ:98:LYS:CG	2.19	0.63
45:DY:75:ILE:HG12	45:DY:76:CYS:H	1.62	0.63
41:BU:92:ARG:CD	41:BU:94:ASN:HB3	2.27	0.63
11:CI:17:VAL:HA	11:CI:63:ILE:HG13	1.81	0.63
2:CY:56:C:H1'	30:DG:76:SER:HB3	1.80	0.63
36:BP:62:LEU:HD11	55:B8:27:THR:HA	1.81	0.63
5:AC:14:ILE:HG23	5:AC:15:THR:H	1.61	0.63
25:DA:1105:U:H2'	25:DA:1106:G:H8	1.62	0.63
29:BF:117:ARG:HH22	29:BF:187:VAL:HA	1.64	0.63
25:BA:270(S):G:O2'	25:BA:270(T):G:H5'	1.97	0.63
1:AA:833:U:H2'	1:AA:834:C:C6	2.34	0.63
25:BA:919:G:H2'	25:BA:920:G:H8	1.63	0.63
27:DD:78:LYS:HD3	27:DD:114:GLY:HA2	1.81	0.63
1:CA:191(F):U:H2'	1:CA:191(G):G:H8	1.64	0.63
35:DO:68:GLU:HB3	35:DO:78:ARG:HB2	1.79	0.63
46:BZ:76:LEU:H	46:BZ:76:LEU:HD12	1.64	0.63
25:BA:2052:G:H4'	28:BE:143:ASN:O	1.99	0.63
25:BA:773:U:C4'	27:BD:47:GLY:HA3	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2436:G:H2'	25:BA:2437:U:H6	1.63	0.63
36:DP:71:VAL:HG23	25:DA:389:G:O6	1.99	0.63
1:AA:1338:G:H21	2:AY:41:C:H1'	1.62	0.63
25:DA:2014:A:H2'	25:DA:2015:A:C8	2.33	0.63
27:DD:14:ARG:NH2	25:DA:1693:U:H1'	2.14	0.63
5:AC:58:GLU:O	5:AC:64:VAL:HA	1.99	0.63
29:DF:45:ARG:HH12	25:DA:443:A:H2'	1.64	0.63
1:CA:735:C:H2'	1:CA:736:C:C6	2.34	0.63
29:DF:117:ARG:HH22	29:DF:187:VAL:HA	1.64	0.63
45:DY:71:LYS:NZ	45:DY:71:LYS:HB2	2.13	0.63
29:BF:24:LEU:HD12	29:BF:24:LEU:H	1.64	0.63
15:CM:87:TYR:O	15:CM:91:ARG:HG2	1.97	0.63
12:AJ:6:ILE:HG12	12:AJ:72:VAL:O	1.98	0.63
25:BA:830:G:H4'	25:BA:831:G:OP2	1.98	0.63
1:CA:176:C:H5''	22:CT:29:LYS:NZ	2.14	0.63
1:AA:392:G:H2'	1:AA:393:A:H8	1.64	0.63
26:BB:35:U:H2'	26:BB:36:C:H6	1.63	0.63
32:BI:110:ASP:HB2	32:BI:113:ARG:HG2	1.80	0.63
49:B2:48:HIS:CE1	49:B2:49:LYS:HD2	2.33	0.63
1:AA:176:C:H5''	22:AT:29:LYS:NZ	2.14	0.63
36:BP:14:LYS:O	36:BP:15:ARG:HB2	1.98	0.63
41:BU:34:LYS:HE2	41:BU:34:LYS:HA	1.80	0.63
44:DX:35:THR:O	44:DX:39:ILE:HG12	1.98	0.63
44:BX:47:PHE:HB3	44:BX:89:ILE:HD12	1.81	0.63
25:BA:1478:G:H2'	25:BA:1479:G:H8	1.64	0.63
25:BA:1024:G:H3'	25:BA:1025:G:C5'	2.29	0.63
1:AA:687:A:H1'	1:AA:688:G:O4'	1.99	0.63
25:BA:813:U:H2'	25:BA:814:C:C6	2.34	0.63
24:CX:54:VAL:HG11	24:CX:81:LEU:HD22	1.81	0.63
21:CS:40:ILE:HD13	21:CS:62:ILE:HD11	1.81	0.63
14:CL:82:VAL:HG11	14:CL:99:ILE:HD11	1.81	0.63
24:AX:181:GLN:NE2	24:AX:306:ASN:HD22	1.97	0.63
43:BW:26:GLY:HA2	43:BW:71:VAL:O	1.98	0.63
32:DI:110:ASP:HB2	32:DI:113:ARG:HG2	1.81	0.63
25:BA:2804:C:H2'	25:BA:2805:G:C8	2.34	0.63
9:CG:46:ALA:O	9:CG:50:ILE:HG12	1.99	0.63
36:BP:114:ILE:HD11	36:BP:130:PHE:CD1	2.34	0.63
10:AH:91:ARG:HB2	14:AL:6:ILE:HD13	1.81	0.63
25:BA:2150:U:H2'	25:BA:2151:G:C8	2.34	0.63
25:DA:2150:U:H2'	25:DA:2151:G:C8	2.34	0.63
29:BF:54:ARG:HA	29:BF:87:GLY:HA3	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AL:44:PRO:HG2	14:AL:50:ALA:H	1.63	0.62
14:CL:65:VAL:HG12	14:CL:66:THR:H	1.64	0.62
25:BA:661:C:H4'	36:BP:16:ARG:HD3	1.81	0.62
34:BN:79:ASN:HD21	34:BN:149:PRO:HD3	1.63	0.62
43:DW:29:LEU:HD21	43:DW:33:ARG:HH21	1.63	0.62
30:BG:38:VAL:HG22	30:BG:93:THR:HG23	1.80	0.62
44:DX:31:HIS:ND1	44:DX:32:PRO:HD2	2.13	0.62
31:DH:24:VAL:HG23	31:DH:37:VAL:HG21	1.81	0.62
47:B0:32:ARG:N	47:B0:35:ASN:HD21	1.96	0.62
8:AF:37:VAL:HA	8:AF:65:VAL:HG12	1.81	0.62
9:CG:12:LEU:HD23	9:CG:12:LEU:H	1.65	0.62
25:BA:955:C:OP2	37:BQ:14:ARG:HD3	1.99	0.62
27:BD:242:ARG:HD3	27:BD:242:ARG:N	2.14	0.62
12:CJ:50:ILE:HB	16:CN:41:ARG:NH2	2.12	0.62
1:AA:908:A:H2'	1:AA:909:A:H8	1.64	0.62
25:DA:401:A:H2'	25:DA:402:A:C8	2.34	0.62
8:CF:53:ALA:HB3	8:CF:86:ARG:HH11	1.64	0.62
1:AA:191(F):U:H2'	1:AA:191(G):G:H8	1.63	0.62
20:AR:59:SER:HB3	20:AR:62:GLU:HG3	1.80	0.62
28:DE:108:SER:O	28:DE:162:ALA:HA	1.99	0.62
25:BA:2402:C:H5'	25:BA:2403:C:OP2	2.00	0.62
28:BE:108:SER:O	28:BE:162:ALA:HA	1.99	0.62
45:DY:86:ARG:HH11	45:DY:95:LYS:HE3	1.65	0.62
46:DZ:76:LEU:H	46:DZ:76:LEU:HD12	1.64	0.62
24:CX:181:GLN:NE2	24:CX:306:ASN:HD22	1.97	0.62
37:DQ:14:ARG:NH1	37:DQ:14:ARG:HG2	2.00	0.62
37:DQ:51:ARG:O	37:DQ:55:VAL:HG13	1.98	0.62
1:AA:1128:C:H4'	11:AI:16:ARG:NH1	2.13	0.62
4:AB:163:PHE:HA	4:AB:185:ILE:O	2.00	0.62
39:BS:24:LEU:HD13	39:BS:82:ILE:HG23	1.80	0.62
29:DF:84:VAL:HG12	25:DA:1257:C:O2'	1.98	0.62
49:D2:14:ARG:NH2	49:D2:67:LYS:HD2	2.14	0.62
36:DP:35:HIS:CD2	25:DA:941:A:H4'	2.34	0.62
14:AL:81:VAL:HG23	14:AL:104:TYR:HB3	1.81	0.62
24:CX:213:ASN:O	24:CX:216:GLU:HG2	1.99	0.62
5:CC:19:GLU:HG3	5:CC:54:ARG:HD2	1.82	0.62
27:BD:44:ASN:HD21	27:BD:46:GLN:HB2	1.64	0.62
36:DP:114:ILE:HD11	36:DP:130:PHE:CD1	2.34	0.62
1:CA:833:U:H2'	1:CA:834:C:C6	2.34	0.62
27:DD:166:GLN:N	27:DD:166:GLN:HE21	1.97	0.62
25:BA:1405:U:H2'	25:BA:1406:U:C6	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1478:G:H2'	25:DA:1479:G:H8	1.64	0.62
43:BW:29:LEU:HD21	43:BW:33:ARG:HH21	1.65	0.62
1:CA:377:G:H2'	1:CA:378:G:C8	2.34	0.62
25:DA:1316:U:H2'	25:DA:1317:A:C8	2.33	0.62
34:DN:118:PRO:O	34:DN:121:VAL:HG22	1.99	0.62
16:AN:37:PHE:HZ	16:AN:56:VAL:HG21	1.63	0.62
25:BA:1498:C:H2'	25:BA:1499:C:C6	2.35	0.62
5:AC:95:THR:HG22	5:AC:96:GLY:H	1.64	0.62
41:DU:37:GLU:HA	41:DU:40:PHE:HD1	1.63	0.62
34:BN:93:LYS:HB3	34:BN:110:LEU:HB2	1.80	0.62
11:AI:17:VAL:HA	11:AI:63:ILE:HG13	1.81	0.62
36:BP:64:LYS:HD2	55:B8:25:MET:SD	2.38	0.62
5:AC:34:LEU:HD21	5:AC:38:ARG:HH21	1.65	0.62
5:AC:36:ASP:HA	5:AC:39:ILE:HD12	1.82	0.62
14:AL:65:VAL:HG12	14:AL:66:THR:H	1.64	0.62
25:BA:941:A:H4'	36:BP:35:HIS:CD2	2.34	0.62
36:DP:21:ARG:HD2	25:DA:663:G:H5''	1.82	0.62
1:CA:1371:G:OP1	11:CI:11:LYS:HB3	1.99	0.62
40:BT:27:THR:HA	40:BT:48:ILE:HA	1.81	0.62
25:BA:443:A:H2'	29:BF:45:ARG:HH12	1.64	0.62
30:DG:39:ILE:HG23	30:DG:157:ILE:HG22	1.81	0.62
10:CH:91:ARG:HB2	14:CL:6:ILE:HD13	1.81	0.62
26:DB:35:U:H2'	26:DB:36:C:H6	1.63	0.62
25:BA:1796:U:H2'	25:BA:1797:C:C6	2.35	0.62
25:BA:1542:G:H1'	25:BA:1543:A:C4	2.34	0.62
4:CB:163:PHE:HA	4:CB:185:ILE:O	2.00	0.62
25:BA:1257:C:O2'	29:BF:84:VAL:HG12	1.98	0.62
36:DP:62:LEU:HD11	55:D8:27:THR:HA	1.81	0.62
21:CS:29:ARG:HB2	21:CS:48:THR:H	1.64	0.62
25:DA:114(B):A:O2'	25:DA:1143:A:H3'	2.00	0.62
1:AA:974:A:OP1	1:AA:974:A:H8	1.83	0.62
27:BD:132:PRO:HD3	27:BD:190:TYR:CE2	2.34	0.62
25:BA:389:G:O6	36:BP:71:VAL:HG23	1.99	0.62
41:BU:37:GLU:HA	41:BU:40:PHE:HD1	1.64	0.62
1:CA:484:G:H4'	1:CA:485:G:O5'	1.99	0.62
25:BA:401:A:H2'	25:BA:402:A:C8	2.34	0.62
36:BP:6:LEU:H	36:BP:6:LEU:HD23	1.64	0.62
25:BA:2735:G:H2'	25:BA:2736:G:H8	1.65	0.62
44:DX:11:PRO:HA	44:DX:28:PHE:CB	2.25	0.62
25:BA:1639:U:C2'	25:BA:1640:C:H5''	2.30	0.62
1:AA:691:G:O6	13:AK:52:GLY:HA2	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BY:17:SER:HB2	45:BY:71:LYS:HD2	1.81	0.62
25:DA:2436:G:H2'	25:DA:2437:U:H6	1.64	0.62
24:AX:213:ASN:O	24:AX:216:GLU:HG2	1.99	0.62
45:BY:8:LYS:HE2	45:BY:37:VAL:HG11	1.82	0.62
38:DR:6:SER:HB2	25:DA:2873:A:C2	2.34	0.62
25:DA:2455:G:H2'	25:DA:2456:C:C6	2.35	0.62
25:BA:284:U:H2'	25:BA:285:C:C6	2.34	0.62
25:BA:1655:A:H1'	28:BE:113:PHE:CD2	2.35	0.62
25:BA:2886:G:H2'	25:BA:2887:U:C6	2.35	0.62
38:DR:84:ALA:HB3	38:DR:85:PRO:HD3	1.82	0.62
50:D3:6:VAL:HG12	50:D3:54:VAL:HB	1.80	0.62
25:DA:2028:U:H2'	25:DA:2029:G:C8	2.35	0.62
40:BT:24:PRO:HD3	40:BT:52:ILE:HD12	1.82	0.62
21:AS:29:ARG:HB2	21:AS:48:THR:H	1.64	0.62
25:DA:1676:A:C2	25:DA:1993:U:H5'	2.33	0.62
45:DY:45:VAL:HA	45:DY:62:GLU:HA	1.81	0.62
25:BA:189:G:H2'	25:BA:205:G:H22	1.62	0.62
48:B1:86:SER:O	48:B1:90:ILE:HG12	1.99	0.62
1:CA:1223:C:P	21:CS:78:ARG:HH21	2.23	0.62
27:BD:10:THR:O	27:BD:13:ARG:HB3	1.99	0.62
25:DA:1411:C:H2'	25:DA:1412:A:C8	2.35	0.62
1:AA:377:G:H2'	1:AA:378:G:H8	1.65	0.62
2:CZ:39:C:H2'	2:CZ:40:C:C6	2.34	0.62
1:CA:579:G:H5'	1:CA:728:A:H1'	1.80	0.62
39:BS:103:GLU:O	39:BS:107:GLU:HG2	2.00	0.62
27:DD:242:ARG:N	27:DD:242:ARG:HD3	2.14	0.62
42:BV:12:TYR:OH	42:BV:22:VAL:HG13	2.00	0.62
16:CN:6:LEU:HD22	16:CN:21:TYR:OH	2.00	0.62
27:DD:14:ARG:HH22	25:DA:1693:U:H1'	1.64	0.62
1:AA:781:A:H4'	1:AA:1522:U:O2'	2.00	0.62
12:AJ:55:LYS:O	12:AJ:55:LYS:HD2	2.00	0.62
9:CG:39:ALA:HA	9:CG:42:ILE:HD12	1.82	0.62
34:BN:116:THR:HG23	34:BN:117:HIS:H	1.64	0.62
34:BN:118:PRO:O	34:BN:121:VAL:HG22	2.00	0.62
25:BA:721:C:H2'	25:BA:722:A:H8	1.65	0.62
25:BA:2303:G:H1'	30:BG:132:ASN:HD22	1.64	0.62
13:CK:50:TYR:HB3	13:CK:54:ARG:HB2	1.82	0.62
25:BA:2615:U:H2'	25:BA:2616:C:H6	1.65	0.62
8:CF:37:VAL:HA	8:CF:65:VAL:HG12	1.79	0.62
7:AE:81:GLU:HA	7:AE:90:VAL:HG22	1.80	0.62
49:D2:19:VAL:HG12	49:D2:23:LYS:HE3	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AC:131:ARG:NH2	7:AE:52:PRO:HG2	2.15	0.62
52:B5:45:VAL:HG13	52:B5:51:TYR:HB2	1.81	0.62
24:AX:54:VAL:O	24:AX:58:LEU:HG	2.00	0.62
43:DW:29:LEU:HG	43:DW:33:ARG:HE	1.65	0.62
54:D7:10:ARG:HH12	25:DA:771:G:P	2.23	0.62
21:AS:40:ILE:HD13	21:AS:62:ILE:HD11	1.81	0.62
14:AL:82:VAL:HG11	14:AL:99:ILE:HD11	1.82	0.62
5:AC:27:LYS:NZ	5:AC:27:LYS:HA	2.15	0.62
29:BF:155:LEU:HD23	29:BF:186:ILE:HD13	1.82	0.62
29:DF:51:THR:HB	29:DF:88:VAL:HG11	1.82	0.62
29:DF:54:ARG:HA	29:DF:87:GLY:HA3	1.80	0.62
27:DD:227:ASN:HB3	27:DD:228:PRO:HD2	1.82	0.62
25:BA:2693:A:H2'	25:BA:2694:G:C8	2.35	0.62
5:CC:27:LYS:NZ	5:CC:27:LYS:HA	2.14	0.62
12:AJ:32:ALA:H	12:AJ:78:ASN:HD21	1.46	0.62
27:BD:166:GLN:HE21	27:BD:166:GLN:N	1.97	0.62
9:AG:46:ALA:O	9:AG:50:ILE:HG12	1.99	0.62
1:AA:59:A:H1'	1:AA:354:G:N2	2.15	0.62
27:DD:44:ASN:HD21	27:DD:46:GLN:HB2	1.63	0.62
25:DA:1825:A:H2'	25:DA:1826:G:H8	1.65	0.61
25:DA:1189:A:C3'	25:DA:1190:G:H5''	2.29	0.61
25:BA:1794:U:H2'	25:BA:1795:C:C6	2.31	0.61
48:D1:86:SER:O	48:D1:90:ILE:HG12	1.99	0.61
1:CA:690:G:H2'	1:CA:691:G:C8	2.35	0.61
30:DG:6:ALA:HB1	30:DG:10:LYS:HE3	1.80	0.61
40:DT:54:ARG:HA	40:DT:59:THR:OG1	2.00	0.61
12:CJ:16:LEU:HD12	12:CJ:70:ARG:HD2	1.81	0.61
41:DU:2:PRO:HD2	25:DA:1248:G:OP1	2.00	0.61
24:CX:84:ARG:O	24:CX:88:LEU:HG	1.99	0.61
25:BA:1759:A:H1'	25:BA:2711:A:C2	2.35	0.61
25:DA:547:A:H2'	25:DA:548:A:C8	2.35	0.61
4:AB:55:PHE:HE1	4:AB:218:ALA:HA	1.65	0.61
54:D7:37:LYS:HD3	54:D7:39:ARG:HE	1.65	0.61
1:AA:502:G:H4'	1:AA:550:G:H4'	1.82	0.61
25:BA:2455:G:H2'	25:BA:2456:C:C6	2.35	0.61
25:BA:1248:G:OP1	41:BU:2:PRO:HD2	2.00	0.61
44:BX:55:ASN:HD22	44:BX:55:ASN:N	1.98	0.61
44:DX:47:PHE:HB3	44:DX:89:ILE:HD12	1.81	0.61
44:BX:11:PRO:HA	44:BX:28:PHE:CB	2.25	0.61
7:AE:70:PRO:O	7:AE:77:PRO:HD3	2.00	0.61
39:BS:66:ALA:HB1	39:BS:101:LEU:HD22	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CC:131:ARG:NH2	7:CE:52:PRO:HG2	2.14	0.61
15:AM:4:ILE:HA	15:AM:57:ARG:HG3	1.81	0.61
1:CA:1227:A:H2'	1:CA:1227:A:N3	2.13	0.61
40:DT:50:ILE:HA	40:DT:99:LEU:HD11	1.81	0.61
25:BA:2314:C:H2'	25:BA:2315:G:C8	2.35	0.61
53:D6:11:LEU:HB3	53:D6:24:GLU:HB3	1.82	0.61
1:CA:794:A:H4'	1:CA:1521:G:O2'	2.00	0.61
24:CX:307:PHE:N	24:CX:308:PRO:HD2	2.14	0.61
34:DN:116:THR:HG23	34:DN:117:HIS:H	1.64	0.61
44:BX:70:LEU:HD23	44:BX:71:GLY:N	2.15	0.61
22:CT:50:GLU:HB3	22:CT:100:ILE:HD13	1.82	0.61
8:AF:82:ARG:HA	8:AF:82:ARG:HH11	1.65	0.61
27:DD:183:ARG:CB	27:DD:270:ILE:HG22	2.30	0.61
1:CA:1327:C:OP1	23:CU:20:LYS:HB3	2.01	0.61
1:AA:1411:C:H2'	1:AA:1412:C:C6	2.36	0.61
49:B2:14:ARG:NH2	49:B2:67:LYS:HD2	2.15	0.61
41:DU:62:ILE:HD12	41:DU:76:TYR:CE1	2.35	0.61
32:BI:130:TYR:HD2	32:BI:132:PRO:HG3	1.65	0.61
25:DA:2615:U:H2'	25:DA:2616:C:H6	1.65	0.61
25:DA:407:G:H2'	25:DA:408:G:H8	1.64	0.61
29:DF:192:LEU:HD21	29:DF:194:MET:HE3	1.81	0.61
25:BA:547:A:H2'	25:BA:548:A:C8	2.35	0.61
44:DX:55:ASN:HD22	44:DX:55:ASN:N	1.98	0.61
24:AX:134:PHE:HB2	24:AX:332:LEU:HD21	1.83	0.61
25:BA:392:C:H5''	25:BA:409:C:H5''	1.82	0.61
28:BE:170:LEU:HB3	28:BE:184:VAL:HG12	1.82	0.61
25:DA:919:G:H2'	25:DA:920:G:H8	1.64	0.61
29:BF:192:LEU:HD21	29:BF:194:MET:HE3	1.83	0.61
25:DA:2886:G:H2'	25:DA:2887:U:C6	2.35	0.61
2:AZ:39:C:H2'	2:AZ:40:C:C6	2.34	0.61
9:CG:27:ILE:HD12	9:CG:40:ALA:HA	1.83	0.61
37:DQ:14:ARG:HD3	25:DA:955:C:OP2	2.00	0.61
25:DA:1788:C:H2'	25:DA:1789:A:C8	2.35	0.61
42:DV:12:TYR:OH	42:DV:22:VAL:HG13	2.00	0.61
1:AA:980:C:H5'	1:AA:981:U:C5	2.35	0.61
25:BA:2681:C:H5	25:BA:2725:A:N6	1.98	0.61
5:CC:36:ASP:HA	5:CC:39:ILE:HD12	1.82	0.61
25:BA:1189:A:C3'	25:BA:1190:G:H5''	2.30	0.61
27:DD:10:THR:O	27:DD:13:ARG:HB3	2.00	0.61
27:BD:25:THR:HG22	27:BD:82:ILE:H	1.66	0.61
1:AA:829:G:H2'	1:AA:830:G:C8	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:908:A:H2'	1:CA:909:A:H8	1.64	0.61
34:BN:112:LYS:O	34:BN:116:THR:HG22	2.01	0.61
25:DA:2735:G:H2'	25:DA:2736:G:H8	1.65	0.61
1:CA:59:A:H1'	1:CA:354:G:N2	2.14	0.61
9:AG:27:ILE:HD12	9:AG:40:ALA:HA	1.82	0.61
28:DE:154:LYS:HA	28:DE:154:LYS:HE3	1.82	0.61
35:DO:104:ARG:HH11	35:DO:104:ARG:HB3	1.65	0.61
25:DA:1678:G:H2'	25:DA:1679:U:H6	1.64	0.61
4:CB:70:PHE:O	4:CB:92:TYR:HA	1.98	0.61
42:DV:72:VAL:HG22	42:DV:85:LYS:O	2.00	0.61
5:AC:17:ASP:HB2	5:AC:21:ARG:HH22	1.65	0.61
25:DA:1102:C:H2'	25:DA:1103:A:H8	1.64	0.61
25:BA:197:A:C8	25:BA:197:A:H5'	2.34	0.61
28:DE:201:THR:HG22	28:DE:202:LYS:N	2.15	0.61
49:D2:35:LEU:HD11	49:D2:49:LYS:HB3	1.81	0.61
24:AX:307:PHE:N	24:AX:308:PRO:HD2	2.15	0.61
25:DA:2712:U:H1'	25:DA:712(B):A:C8	2.35	0.61
29:DF:136:THR:HG21	25:DA:320:A:H2'	1.81	0.61
25:DA:2467:C:H2'	25:DA:2468:G:O4'	2.00	0.61
25:BA:114(B):A:O2'	25:BA:1143:A:H3'	2.00	0.61
40:BT:92:GLY:HA2	40:BT:117:ASP:H	1.65	0.61
30:DG:74:LYS:HA	30:DG:74:LYS:HE3	1.82	0.61
28:DE:92:THR:HG22	28:DE:93:VAL:H	1.65	0.61
4:CB:55:PHE:HE1	4:CB:218:ALA:HA	1.65	0.61
16:AN:6:LEU:HD22	16:AN:21:TYR:OH	2.00	0.61
1:AA:728:A:H2'	1:AA:729:A:C8	2.35	0.61
38:DR:6:SER:HB2	25:DA:2873:A:N3	2.16	0.61
54:B7:37:LYS:HD3	54:B7:39:ARG:HE	1.65	0.61
6:CD:135:LEU:H	6:CD:135:LEU:HD22	1.66	0.61
22:AT:50:GLU:HB3	22:AT:100:ILE:HD13	1.82	0.61
41:DU:49:HIS:HA	41:DU:52:ARG:HB2	1.81	0.61
43:DW:26:GLY:HA2	43:DW:71:VAL:O	1.99	0.61
29:DF:83:PHE:O	29:DF:84:VAL:C	2.39	0.61
41:BU:50:ARG:NH2	42:BV:72:VAL:HG12	2.11	0.61
1:CA:980:C:H5'	1:CA:981:U:C5	2.36	0.61
49:D2:17:SER:HB3	49:D2:18:PRO:HD2	1.80	0.61
36:DP:23:PRO:HB2	36:DP:33:ARG:NE	2.16	0.61
36:BP:40:SER:C	36:BP:41:ARG:HD2	2.21	0.61
40:DT:24:PRO:HD3	40:DT:52:ILE:HD12	1.82	0.61
20:CR:70:ILE:O	20:CR:74:ARG:HG3	2.01	0.61
1:AA:537:G:H5''	14:AL:112:ARG:HH22	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:825:C:H4'	25:DA:2428:G:N7	2.15	0.61
1:CA:728:A:H2'	1:CA:729:A:C8	2.34	0.61
25:BA:2712:U:H1'	25:BA:712(B):A:C8	2.36	0.61
1:AA:1363:A:H4'	1:AA:1364:U:H5''	1.82	0.61
28:BE:92:THR:HG22	28:BE:93:VAL:H	1.65	0.61
2:CZ:4:G:HO2'	2:CZ:5:G:H8	1.47	0.61
12:AJ:16:LEU:HD12	12:AJ:70:ARG:HD2	1.81	0.61
25:BA:1411:C:H2'	25:BA:1412:A:C8	2.36	0.61
1:CA:576:G:H3'	1:CA:577:G:H5''	1.82	0.61
25:BA:2271:G:OP1	47:B0:18:ALA:HB1	2.00	0.61
31:DH:143:GLN:NE2	25:DA:2761:G:H1'	2.15	0.61
25:BA:13:A:N1	25:BA:525:U:H2'	2.16	0.61
25:BA:663:G:H5''	36:BP:21:ARG:HD2	1.83	0.61
25:BA:2873:A:N3	38:BR:6:SER:HB2	2.15	0.61
25:DA:1024:G:H3'	25:DA:1025:G:C5'	2.30	0.61
25:DA:1759:A:H1'	25:DA:2711:A:C2	2.35	0.61
25:BA:1173:G:HO2'	25:BA:1175:U:H6	1.49	0.61
37:DQ:60:ARG:HB2	37:DQ:60:ARG:HH11	1.66	0.61
34:BN:32:VAL:HG11	34:BN:62:ARG:HH12	1.66	0.61
31:BH:24:VAL:HG23	31:BH:37:VAL:HG21	1.82	0.61
45:BY:75:ILE:HG12	45:BY:76:CYS:N	2.16	0.61
29:BF:83:PHE:O	29:BF:84:VAL:C	2.39	0.61
5:CC:17:ASP:HB2	5:CC:21:ARG:HH22	1.65	0.61
36:DP:23:PRO:HD2	36:DP:33:ARG:HH21	1.66	0.61
1:AA:1499:A:H1'	1:AA:1520:G:H5'	1.83	0.61
49:B2:50:ILE:H	49:B2:50:ILE:HD12	1.66	0.61
21:AS:63:THR:HG22	21:AS:66:MET:HE3	1.83	0.61
36:DP:16:ARG:HD3	25:DA:661:C:H4'	1.83	0.61
1:AA:377:G:H2'	1:AA:378:G:C8	2.35	0.61
25:BA:959:A:H2'	25:BA:960:A:C8	2.36	0.61
25:BA:556:G:H2'	25:BA:557:U:C6	2.35	0.61
1:AA:451:A:N6	1:AA:480:U:H2'	2.15	0.61
45:BY:42:VAL:HG12	45:BY:65:ALA:HB3	1.83	0.61
26:BB:51:G:N2	26:BB:52:A:H62	1.98	0.61
1:CA:451:A:N6	1:CA:480:U:H2'	2.15	0.61
25:BA:746:A:C5	25:BA:2611:U:H5''	2.36	0.61
25:BA:2373:G:H2'	25:BA:2374:C:C6	2.36	0.61
25:DA:1632:A:H8	25:DA:1632:A:O5'	1.84	0.61
48:B1:46:LEU:HD21	48:B1:61:ARG:NE	2.16	0.61
18:AP:28:ARG:HG2	18:AP:28:ARG:NH1	2.14	0.61
25:DA:2402:C:H5'	25:DA:2403:C:OP2	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1466:G:H2'	25:DA:1547:C:N4	2.15	0.61
4:AB:80:ILE:HD11	4:AB:208:ILE:HG23	1.83	0.61
1:AA:1520:G:H2'	1:AA:1521:G:H8	1.66	0.61
1:AA:794:A:H4'	1:AA:1521:G:O2'	2.01	0.61
1:CA:691:G:O6	13:CK:52:GLY:HA2	2.00	0.61
24:CX:54:VAL:O	24:CX:58:LEU:HG	2.01	0.61
28:BE:201:THR:HG22	28:BE:202:LYS:N	2.15	0.61
25:BA:1980:G:H3'	25:BA:1981:A:C5'	2.30	0.61
25:DA:1980:G:H3'	25:DA:1981:A:C5'	2.31	0.61
49:B2:46:GLN:O	49:B2:49:LYS:HD3	2.01	0.61
14:AL:69:ILE:HG13	14:AL:99:ILE:HG21	1.83	0.61
1:CA:1443:G:N7	40:DT:118:ARG:HD2	2.15	0.61
1:CA:777:A:H2'	1:CA:778:G:C8	2.36	0.61
2:CZ:47:U:H3'	2:CZ:48:C:H5'	1.83	0.61
25:DA:13:A:N1	25:DA:525:U:H2'	2.16	0.61
1:CA:1363:A:H4'	1:CA:1364:U:H5''	1.83	0.61
25:DA:634:C:H2'	25:DA:635:C:C6	2.36	0.61
7:CE:70:PRO:O	7:CE:77:PRO:HD3	2.01	0.60
25:BA:2056:G:N2	52:B5:4:HIS:HA	2.14	0.60
52:D5:4:HIS:HA	25:DA:2056:G:N2	2.14	0.60
1:CA:781:A:H4'	1:CA:1522:U:O2'	2.01	0.60
40:DT:92:GLY:HA2	40:DT:117:ASP:H	1.65	0.60
27:BD:227:ASN:HB3	27:BD:228:PRO:HD2	1.82	0.60
25:BA:713:G:H2'	25:BA:714:U:C6	2.36	0.60
44:BX:31:HIS:ND1	44:BX:32:PRO:HD2	2.16	0.60
13:AK:50:TYR:HB3	13:AK:54:ARG:HB2	1.83	0.60
25:BA:742:G:H2'	25:BA:743:G:H8	1.65	0.60
25:DA:721:C:H2'	25:DA:722:A:H8	1.65	0.60
27:BD:183:ARG:CB	27:BD:270:ILE:HG22	2.31	0.60
8:AF:47:ARG:HH12	8:AF:56:PRO:HB2	1.66	0.60
35:BO:104:ARG:HH11	35:BO:104:ARG:HB3	1.66	0.60
30:BG:74:LYS:HE3	30:BG:74:LYS:HA	1.82	0.60
25:DA:491:G:H2'	25:DA:492:A:C8	2.36	0.60
2:AZ:47:U:H3'	2:AZ:48:C:H5'	1.83	0.60
25:BA:1825:A:H2'	25:BA:1826:G:H8	1.65	0.60
41:DU:92:ARG:NH2	42:DV:11:GLN:H	1.99	0.60
25:BA:675:A:H4'	29:BF:67:GLN:HE21	1.66	0.60
25:DA:2553:G:H2'	25:DA:2554:U:O4'	2.01	0.60
24:AX:54:VAL:HG11	24:AX:81:LEU:HD22	1.81	0.60
8:CF:11:ASN:HB3	8:CF:14:LEU:HD12	1.83	0.60
30:DG:38:VAL:HG22	30:DG:93:THR:HG23	1.80	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1152:A:H5''	12:AJ:13:HIS:CD2	2.36	0.60
5:CC:95:THR:HG22	5:CC:96:GLY:H	1.65	0.60
24:AX:149:PRO:HA	24:AX:155:PHE:HA	1.83	0.60
1:AA:707:C:H4'	13:AK:20:TYR:CD1	2.36	0.60
25:DA:255:A:H4'	25:DA:384:U:OP1	2.01	0.60
25:BA:2514:U:H2'	25:BA:2515:C:C6	2.36	0.60
25:DA:2514:U:H2'	25:DA:2515:C:C6	2.36	0.60
25:BA:1789:A:H2'	25:BA:1790:C:O4'	2.02	0.60
44:BX:26:TYR:HB3	44:BX:92:LEU:HD13	1.83	0.60
25:BA:1544:C:H3'	25:BA:1545:A:C5'	2.31	0.60
45:DY:8:LYS:HE2	45:DY:37:VAL:HG11	1.81	0.60
39:DS:66:ALA:HB1	39:DS:101:LEU:HD22	1.82	0.60
32:DI:101:LEU:HG	32:DI:107:ILE:CG2	2.32	0.60
1:CA:829:G:H2'	1:CA:830:G:C8	2.36	0.60
53:B6:11:LEU:HB3	53:B6:24:GLU:HB3	1.82	0.60
40:BT:54:ARG:HA	40:BT:59:THR:OG1	2.00	0.60
25:BA:255:A:H4'	25:BA:384:U:OP1	2.00	0.60
8:CF:47:ARG:HH12	8:CF:56:PRO:HB2	1.67	0.60
1:CA:692:U:H5	13:CK:26:ASN:HD22	1.49	0.60
46:DZ:30:ASN:H	46:DZ:33:LEU:HB3	1.65	0.60
9:CG:150:ALA:HB1	13:CK:57:THR:HG21	1.84	0.60
28:DE:113:PHE:CD2	25:DA:1655:A:H1'	2.36	0.60
39:DS:103:GLU:O	39:DS:107:GLU:HG2	2.00	0.60
44:DX:70:LEU:HD23	44:DX:71:GLY:N	2.16	0.60
8:AF:53:ALA:HB3	8:AF:86:ARG:HH11	1.65	0.60
1:AA:261:U:H5	22:AT:79:ARG:CZ	2.14	0.60
25:BA:2761:G:H1'	31:BH:143:GLN:NE2	2.16	0.60
9:AG:39:ALA:HA	9:AG:42:ILE:HD12	1.82	0.60
12:CJ:30:SER:HB2	12:CJ:80:LYS:CG	2.30	0.60
37:BQ:52:VAL:O	37:BQ:56:ARG:HB2	2.02	0.60
5:CC:34:LEU:HD21	5:CC:38:ARG:HH21	1.65	0.60
49:B2:17:SER:HB3	49:B2:18:PRO:HD2	1.80	0.60
1:CA:1251:A:H2'	1:CA:1252:A:H8	1.66	0.60
36:DP:45:LEU:HD22	36:DP:48:PRO:HG3	1.82	0.60
8:AF:16:GLN:HA	8:AF:19:LEU:HB3	1.83	0.60
30:DG:135:LEU:HD23	30:DG:140:ILE:HD11	1.83	0.60
30:DG:136:ARG:HH22	25:DA:2306:C:H4'	1.66	0.60
34:BN:36:TRP:HB2	34:BN:156:GLN:CB	2.31	0.60
20:CR:58:LEU:HB3	20:CR:62:GLU:HB2	1.82	0.60
2:AZ:53:G:H2'	2:AZ:54:U:C6	2.37	0.60
23:AU:14:TRP:CE3	23:AU:15:ARG:HG2	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:634:C:H2'	25:BA:635:C:C6	2.36	0.60
47:D0:18:ALA:HB1	25:DA:2271:G:OP1	2.00	0.60
29:DF:150:GLY:HA2	29:DF:172:TRP:CE3	2.36	0.60
25:DA:556:G:H2'	25:DA:557:U:C6	2.36	0.60
24:CX:333:THR:N	24:CX:334:PRO:HD2	2.16	0.60
14:CL:46:LYS:HB3	14:CL:47:PRO:HD3	1.82	0.60
26:DB:51:G:N2	26:DB:52:A:H62	1.99	0.60
6:AD:135:LEU:H	6:AD:135:LEU:HD22	1.66	0.60
25:BA:783:A:H8	25:BA:784:A:H4'	1.66	0.60
25:DA:1544:C:H3'	25:DA:1545:A:C5'	2.31	0.60
49:B2:19:VAL:HG12	49:B2:23:LYS:HE3	1.82	0.60
48:B1:11:ARG:HB2	48:B1:13:ILE:HG22	1.82	0.60
1:AA:1251:A:H2'	1:AA:1252:A:H8	1.65	0.60
1:AA:1508:G:H2'	1:AA:1509:C:C6	2.36	0.60
10:AH:110:ALA:HB3	10:AH:121:ASP:HB3	1.83	0.60
25:DA:197:A:H5'	25:DA:197:A:C8	2.36	0.60
36:BP:45:LEU:HD22	36:BP:48:PRO:HG3	1.83	0.60
25:DA:848:G:N3	25:DA:933:A:H1'	2.16	0.60
1:AA:690:G:H2'	1:AA:691:G:C8	2.36	0.60
20:AR:70:ILE:O	20:AR:74:ARG:HG3	2.02	0.60
8:AF:11:ASN:HB3	8:AF:14:LEU:HD12	1.82	0.60
25:BA:2306:C:H4'	30:BG:136:ARG:HH22	1.67	0.60
30:BG:135:LEU:HD23	30:BG:140:ILE:HD11	1.83	0.60
12:AJ:63:PHE:HZ	16:AN:45:ARG:HG3	1.67	0.60
45:DY:17:SER:HB2	45:DY:71:LYS:HD2	1.82	0.60
5:CC:19:GLU:HA	5:CC:54:ARG:HE	1.66	0.60
49:D2:55:ARG:HH21	25:DA:74:A:H5'	1.66	0.60
25:BA:2467:C:H2'	25:BA:2468:G:O4'	2.00	0.60
30:BG:83:ARG:HG3	30:BG:84:LYS:N	2.16	0.60
32:BI:101:LEU:HG	32:BI:107:ILE:CG2	2.31	0.60
1:AA:1223:C:P	21:AS:78:ARG:HH21	2.23	0.60
12:CJ:63:PHE:HZ	16:CN:45:ARG:HG3	1.66	0.60
25:DA:919:G:H2'	25:DA:920:G:C8	2.37	0.60
26:BB:51:G:H21	26:BB:52:A:H62	1.49	0.60
1:CA:715:A:H2'	1:CA:716:A:C8	2.36	0.60
2:CZ:35:A:H2'	2:CZ:36:U:C6	2.37	0.60
25:DA:970:C:H2'	25:DA:971:C:H6	1.67	0.60
25:DA:2693:A:H2'	25:DA:2694:G:H8	1.66	0.60
30:DG:47:LYS:HG3	30:DG:82:LEU:HD22	1.84	0.60
25:BA:320:A:H2'	29:BF:136:THR:HG21	1.82	0.60
25:BA:74:A:H5'	49:B2:55:ARG:HH21	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:DG:132:ASN:HD22	25:DA:2303:G:H1'	1.65	0.60
48:D1:11:ARG:HB3	48:D1:12:PRO:CD	2.26	0.60
42:DV:38:LEU:HD22	42:DV:52:VAL:HG11	1.83	0.60
45:BY:4:LYS:HD3	45:BY:4:LYS:H	1.66	0.60
46:BZ:24:LEU:HB2	46:BZ:41:LEU:HD23	1.84	0.60
20:CR:39:VAL:HG12	20:CR:43:PHE:HE1	1.66	0.60
25:DA:587:C:C6	25:DA:671:C:H1'	2.36	0.60
36:DP:40:SER:O	36:DP:41:ARG:HD2	2.02	0.60
25:DA:1639:U:C2'	25:DA:1640:C:H5''	2.31	0.60
12:CJ:55:LYS:O	12:CJ:55:LYS:HD2	2.01	0.60
34:DN:36:TRP:HB2	34:DN:156:GLN:CB	2.32	0.60
14:CL:69:ILE:HG13	14:CL:99:ILE:HG21	1.84	0.60
25:BA:919:G:H2'	25:BA:920:G:C8	2.36	0.60
25:BA:598:G:H5'	36:BP:15:ARG:HG2	1.84	0.60
25:DA:2693:A:H2'	25:DA:2694:G:C8	2.35	0.60
25:DA:392:C:H5''	25:DA:409:C:H5''	1.83	0.60
4:AB:97:TRP:HZ2	4:AB:102:LEU:HD13	1.66	0.60
37:BQ:130:LYS:HG2	37:BQ:131:ILE:N	2.16	0.60
34:DN:57:LEU:O	34:DN:72:GLY:HA3	2.01	0.60
25:DA:742:G:H2'	25:DA:743:G:H8	1.66	0.60
1:CA:1203:C:H2'	1:CA:1204:A:H8	1.66	0.60
37:DQ:130:LYS:HG2	37:DQ:131:ILE:N	2.16	0.60
1:AA:1429:C:H2'	1:AA:1430:C:C6	2.36	0.60
35:BO:45:GLU:HA	35:BO:54:GLU:HG2	1.84	0.60
25:DA:1788:C:H2'	25:DA:1789:A:H8	1.65	0.60
36:BP:23:PRO:HB2	36:BP:33:ARG:NE	2.16	0.60
4:AB:187:LEU:HA	4:AB:201:ILE:HB	1.84	0.60
27:DD:62:TYR:HA	27:DD:87:ASN:ND2	2.17	0.60
1:CA:974:A:H8	1:CA:974:A:OP1	1.83	0.60
25:BA:1766:U:H2'	25:BA:1767:C:C6	2.37	0.60
28:BE:154:LYS:HE3	28:BE:154:LYS:HA	1.83	0.60
1:AA:777:A:H2'	1:AA:778:G:C8	2.37	0.60
12:AJ:30:SER:HB2	12:AJ:80:LYS:CG	2.31	0.60
24:CX:149:PRO:HA	24:CX:155:PHE:HA	1.82	0.60
2:AZ:35:A:H2'	2:AZ:36:U:C6	2.37	0.60
24:CX:244:LEU:HB2	24:CX:245:PRO:HD3	1.84	0.60
37:BQ:60:ARG:HH11	37:BQ:60:ARG:HB2	1.66	0.60
8:CF:82:ARG:HA	8:CF:82:ARG:HH11	1.65	0.60
25:BA:675:A:H4'	29:BF:67:GLN:NE2	2.16	0.60
25:BA:2393:A:H4'	36:BP:61:ARG:O	2.02	0.60
25:BA:1102:C:H2'	25:BA:1103:A:H8	1.64	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1675:C:H2'	25:BA:1676:A:O4'	2.02	0.60
25:BA:251:A:H5'	36:BP:51:PHE:CE1	2.37	0.60
4:CB:187:LEU:HA	4:CB:201:ILE:HB	1.84	0.60
27:BD:32:SER:HA	27:BD:36:PRO:HG2	1.84	0.60
41:BU:62:ILE:HD12	41:BU:76:TYR:CE1	2.37	0.60
25:BA:848:G:N3	25:BA:933:A:H1'	2.16	0.60
25:DA:1050:A:H2'	25:DA:1051:G:H8	1.64	0.60
1:CA:688:G:H2'	1:CA:689:C:C6	2.37	0.60
27:BD:204:ILE:O	27:BD:204:ILE:HD12	2.02	0.60
1:AA:370:C:H2'	1:AA:371:G:H8	1.67	0.60
1:AA:452:A:H2'	1:AA:453:A:C8	2.37	0.60
5:AC:19:GLU:HG3	5:AC:54:ARG:HD2	1.82	0.60
25:DA:2728:U:H2'	25:DA:2729:G:C8	2.37	0.60
2:CZ:53:G:H2'	2:CZ:54:U:C6	2.36	0.60
25:BA:1751:C:H2'	25:BA:1752:C:C6	2.37	0.60
48:D1:11:ARG:HB2	48:D1:13:ILE:HG22	1.82	0.60
42:DV:39:LEU:HD12	42:DV:47:VAL:HG11	1.83	0.60
25:BA:675:A:O2'	25:BA:676:A:H5'	2.02	0.60
39:BS:35:ILE:O	39:BS:53:SER:HB2	2.02	0.60
20:AR:58:LEU:HB3	20:AR:62:GLU:HB2	1.83	0.60
24:CX:134:PHE:HB2	24:CX:332:LEU:HD21	1.83	0.60
25:BA:481:G:HO2'	25:BA:507:A:N6	2.00	0.60
46:BZ:95:PRO:HB2	46:BZ:127:LYS:HE3	1.83	0.60
16:AN:26:ARG:HD3	16:AN:43:CYS:HB2	1.84	0.60
1:AA:1327:C:OP1	23:AU:20:LYS:HB3	2.02	0.60
25:DA:1923:U:H2'	25:DA:1924:C:C6	2.37	0.60
25:BA:2728:U:H2'	25:BA:2729:G:C8	2.37	0.60
1:CA:502:G:H4'	1:CA:550:G:H4'	1.83	0.60
41:BU:92:ARG:NH2	42:BV:11:GLN:H	2.00	0.59
25:BA:1466:G:H2'	25:BA:1547:C:N4	2.14	0.59
1:CA:1508:G:H2'	1:CA:1509:C:C6	2.37	0.59
5:CC:206:GLU:HG2	5:CC:207:VAL:HG23	1.85	0.59
54:B7:5:TRP:HE1	54:B7:7:PRO:HG3	1.67	0.59
1:AA:692:U:H5	13:AK:26:ASN:HD22	1.51	0.59
25:DA:783:A:H8	25:DA:784:A:H4'	1.67	0.59
1:CA:707:C:H4'	13:CK:20:TYR:CD1	2.37	0.59
4:AB:235:SER:O	4:AB:239:VAL:HG23	2.02	0.59
36:DP:7:ARG:HB3	36:DP:8:PRO:HD3	1.84	0.59
34:BN:57:LEU:O	34:BN:72:GLY:HA3	2.01	0.59
25:DA:1751:C:H2'	25:DA:1752:C:C6	2.37	0.59
1:CA:452:A:H2'	1:CA:453:A:C8	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:CU:14:TRP:CE3	23:CU:15:ARG:HG2	2.37	0.59
1:CA:1281:U:H4'	1:CA:1282:C:OP2	2.02	0.59
45:DY:42:VAL:HG12	45:DY:65:ALA:HB3	1.83	0.59
25:DA:55:G:H2'	25:DA:56:A:H8	1.66	0.59
9:AG:111:ARG:HB3	9:AG:113:GLU:HG2	1.84	0.59
1:CA:1411:C:H2'	1:CA:1412:C:C6	2.37	0.59
40:DT:95:ARG:CG	40:DT:95:ARG:HH11	2.13	0.59
12:AJ:49:VAL:HG22	12:AJ:50:ILE:N	2.17	0.59
1:CA:1347:G:N2	1:CA:1373:G:H2'	2.17	0.59
40:DT:26:ASP:HB2	40:DT:91:ARG:HA	1.84	0.59
25:DA:1021:A:H62	25:DA:1141:U:H3	1.49	0.59
48:B1:73:LEU:HD11	48:B1:94:LEU:HG	1.83	0.59
14:CL:68:TYR:O	14:CL:99:ILE:HG22	2.02	0.59
25:BA:2693:A:H2'	25:BA:2694:G:H8	1.66	0.59
1:AA:715:A:H2'	1:AA:716:A:C8	2.36	0.59
40:DT:132:LYS:O	40:DT:136:GLN:HG3	2.03	0.59
25:DA:953:A:H2'	25:DA:954:G:H8	1.67	0.59
25:DA:2373:G:H2'	25:DA:2374:C:C6	2.37	0.59
14:AL:46:LYS:HB3	14:AL:47:PRO:HD3	1.83	0.59
25:DA:539:G:H2'	25:DA:540:G:H8	1.67	0.59
29:BF:150:GLY:HA2	29:BF:172:TRP:CE3	2.37	0.59
36:BP:28:GLY:C	36:BP:29:LYS:HD2	2.23	0.59
25:BA:953:A:H2'	25:BA:954:G:H8	1.67	0.59
25:DA:746:A:C5	25:DA:2611:U:H5''	2.37	0.59
48:D1:62:VAL:HG22	48:D1:63:ALA:N	2.18	0.59
45:DY:8:LYS:NZ	45:DY:8:LYS:N	2.49	0.59
25:BA:825:C:H4'	25:BA:2428:G:N7	2.17	0.59
45:BY:8:LYS:N	45:BY:8:LYS:NZ	2.50	0.59
34:DN:83:ILE:HD13	34:DN:122:LEU:HD23	1.84	0.59
41:BU:15:LYS:O	41:BU:19:LYS:HG3	2.02	0.59
25:BA:747:U:P	52:B5:3:LYS:HD3	2.42	0.59
25:BA:618(A):G:H5'	29:BF:205:ARG:NH2	2.18	0.59
34:DN:32:VAL:HG11	34:DN:62:ARG:HH12	1.66	0.59
25:BA:1789:A:OP1	27:BD:222:ARG:HG3	2.03	0.59
48:D1:73:LEU:HD11	48:D1:94:LEU:HG	1.84	0.59
34:DN:112:LYS:O	34:DN:116:THR:HG22	2.01	0.59
1:AA:692:U:H5	13:AK:26:ASN:ND2	2.00	0.59
14:AL:37:THR:HG23	14:AL:38:VAL:H	1.67	0.59
25:BA:283:A:H2	25:BA:427:U:H1'	1.67	0.59
25:BA:1923:U:H2'	25:BA:1924:C:C6	2.37	0.59
1:CA:37:U:P	14:CL:122:LYS:HG3	2.42	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DF:155:LEU:HD23	29:DF:186:ILE:HD13	1.83	0.59
25:BA:491:G:H2'	25:BA:492:A:C8	2.37	0.59
25:DA:2119:A:C2	25:DA:2170:A:H2'	2.36	0.59
25:DA:247:G:H4'	25:DA:386:G:C6	2.38	0.59
25:DA:2243:U:H2'	25:DA:2244:U:C6	2.37	0.59
28:DE:30:PRO:HD3	28:DE:180:ASN:ND2	2.18	0.59
37:DQ:52:VAL:O	37:DQ:56:ARG:HB2	2.02	0.59
45:DY:75:ILE:HG12	45:DY:76:CYS:N	2.16	0.59
29:DF:81:PRO:HB3	29:DF:89:VAL:HG22	1.85	0.59
25:BA:2393:A:H5''	36:BP:62:LEU:HB3	1.84	0.59
25:BA:587:C:C6	25:BA:671:C:H1'	2.37	0.59
36:BP:16:ARG:CZ	36:BP:18:ARG:HG3	2.32	0.59
2:CZ:1:C:H2'	2:CZ:2:G:C8	2.37	0.59
8:CF:16:GLN:HA	8:CF:19:LEU:HB3	1.84	0.59
25:DA:2314:C:H2'	25:DA:2315:G:C8	2.36	0.59
41:DU:36:ARG:HG2	41:DU:40:PHE:CE1	2.38	0.59
26:DB:51:G:H21	26:DB:52:A:H62	1.49	0.59
5:AC:19:GLU:HA	5:AC:54:ARG:HE	1.67	0.59
24:AX:244:LEU:HB2	24:AX:245:PRO:HD3	1.83	0.59
25:DA:713:G:H2'	25:DA:714:U:C6	2.37	0.59
1:AA:677:U:H2'	1:AA:678:U:C6	2.37	0.59
25:BA:2119:A:C2	25:BA:2170:A:H2'	2.37	0.59
6:AD:3:ARG:HD3	6:AD:5:ILE:HD11	1.85	0.59
11:CI:113:LYS:HG2	11:CI:119:ALA:HA	1.85	0.59
16:CN:12:ARG:HB3	16:CN:14:PRO:HD3	1.85	0.59
6:CD:57:ARG:HB3	6:CD:206:PHE:HB2	1.84	0.59
46:DZ:24:LEU:HB2	46:DZ:41:LEU:HD23	1.84	0.59
45:DY:7:VAL:HB	45:DY:8:LYS:HZ2	1.67	0.59
11:CI:85:LEU:O	11:CI:89:ASN:HB2	2.02	0.59
25:DA:1675:C:H2'	25:DA:1676:A:O4'	2.02	0.59
27:DD:25:THR:HG22	27:DD:82:ILE:H	1.67	0.59
25:BA:1021:A:H62	25:BA:1141:U:H3	1.50	0.59
36:BP:7:ARG:HB3	36:BP:8:PRO:HD3	1.85	0.59
35:DO:45:GLU:HA	35:DO:54:GLU:HG2	1.84	0.59
25:DA:161:U:H3'	25:DA:162:U:H5''	1.84	0.59
25:BA:242:G:C8	55:B8:5:LYS:HG2	2.38	0.59
25:DA:1833:U:H2'	25:DA:1834:U:H6	1.67	0.59
38:DR:28:LEU:HD11	38:DR:116:LEU:HD21	1.85	0.59
46:BZ:30:ASN:H	46:BZ:33:LEU:HB3	1.67	0.59
16:CN:26:ARG:HD3	16:CN:43:CYS:HB2	1.84	0.59
41:DU:92:ARG:HD2	41:DU:95:LEU:H	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:83:G:N2	25:DA:102:G:H2'	2.18	0.59
25:BA:2591:C:H2'	25:BA:2592:G:C8	2.37	0.59
36:DP:15:ARG:HG2	25:DA:598:G:H5'	1.83	0.59
46:DZ:17:ALA:HA	46:DZ:20:ARG:HD2	1.84	0.59
54:D7:11:LYS:NZ	54:D7:15:THR:HG21	2.17	0.59
29:DF:205:ARG:NH2	25:DA:618(A):G:H5'	2.17	0.59
24:AX:333:THR:N	24:AX:334:PRO:HD2	2.18	0.59
1:CA:677:U:H2'	1:CA:678:U:C6	2.37	0.59
46:DZ:118:GLN:HB2	46:DZ:173:ALA:O	2.03	0.59
25:BA:2243:U:H2'	25:BA:2244:U:C6	2.37	0.59
32:DI:56:LYS:HA	32:DI:59:ALA:HB3	1.85	0.59
46:BZ:17:ALA:HA	46:BZ:20:ARG:HD2	1.84	0.59
54:B7:11:LYS:NZ	54:B7:15:THR:HG21	2.17	0.59
25:DA:2600:A:O2'	25:DA:2601:C:H5'	2.03	0.59
44:DX:89:ILE:HG22	44:DX:92:LEU:H	1.67	0.59
42:BV:38:LEU:HD22	42:BV:52:VAL:HG11	1.83	0.59
42:BV:39:LEU:HD12	42:BV:47:VAL:HG11	1.83	0.59
14:CL:44:PRO:HG3	14:CL:52:ARG:HD3	1.85	0.59
36:DP:61:ARG:O	25:DA:2393:A:H4'	2.03	0.59
2:AZ:71:C:H2'	2:AZ:72:A:C8	2.37	0.59
25:DA:686:G:H21	25:DA:788:A:H61	1.48	0.59
25:DA:2591:C:H2'	25:DA:2592:G:C8	2.37	0.59
1:CA:684:A:H2'	1:CA:685:G:H8	1.66	0.59
25:DA:2061:G:H5''	25:DA:2503:A:C2	2.38	0.59
12:CJ:32:ALA:H	12:CJ:78:ASN:ND2	2.01	0.59
49:D2:50:ILE:HD12	49:D2:50:ILE:H	1.66	0.59
1:CA:692:U:H5	13:CK:26:ASN:ND2	1.99	0.59
34:BN:83:ILE:HD13	34:BN:122:LEU:HD23	1.84	0.59
1:AA:37:U:P	14:AL:122:LYS:HG3	2.43	0.59
25:DA:1970:A:H5''	25:DA:1971:A:OP1	2.02	0.59
36:BP:135:LEU:O	36:BP:139:LYS:HB2	2.02	0.59
55:D8:5:LYS:HG2	25:DA:242:G:C8	2.38	0.59
25:DA:990:A:C6	25:DA:1186:G:H1'	2.38	0.59
36:DP:135:LEU:O	36:DP:139:LYS:HB2	2.02	0.59
25:DA:1348:G:C2'	25:DA:1349:A:H5''	2.31	0.59
20:AR:39:VAL:HG12	20:AR:43:PHE:HE1	1.67	0.59
25:DA:2011:U:H2'	25:DA:2012:G:O4'	2.03	0.59
1:CA:1355:G:H2'	1:CA:1356:G:C8	2.38	0.59
25:DA:1183:G:H2'	25:DA:1184:G:C8	2.37	0.59
44:DX:64:LYS:HG2	44:DX:65:ARG:N	2.17	0.59
9:CG:91:VAL:HG12	9:CG:92:SER:H	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:B2:35:LEU:HD11	49:B2:49:LYS:HB3	1.82	0.59
36:DP:28:GLY:C	36:DP:29:LYS:HD2	2.22	0.59
1:CA:1429:C:H2'	1:CA:1430:C:C6	2.37	0.59
1:AA:576:G:H3'	1:AA:577:G:H5''	1.82	0.59
9:AG:150:ALA:HB1	13:AK:57:THR:HG21	1.83	0.59
36:DP:148:LEU:HD13	36:DP:148:LEU:H	1.67	0.59
6:CD:49:ARG:NH2	6:CD:50:ARG:HB2	2.18	0.59
36:DP:62:LEU:HB3	25:DA:2393:A:H5''	1.83	0.59
36:BP:23:PRO:HD2	36:BP:33:ARG:HH21	1.67	0.59
37:BQ:6:ARG:O	37:BQ:7:MET:HB2	2.03	0.59
25:BA:1434:A:H61	25:BA:1558:A:N6	2.01	0.59
27:DD:140:THR:HG22	27:DD:141:VAL:N	2.18	0.59
24:CX:87:ALA:O	24:CX:91:GLU:HG2	2.03	0.59
1:AA:646:U:H2'	1:AA:647:C:C6	2.38	0.59
43:DW:46:PHE:O	43:DW:50:VAL:HG12	2.03	0.59
47:B0:19:LYS:HB2	47:B0:21:LEU:HD11	1.85	0.59
36:BP:148:LEU:H	36:BP:148:LEU:HD13	1.67	0.59
25:DA:49:A:H4'	25:DA:50:U:H5''	1.83	0.59
5:AC:66:VAL:HB	5:AC:101:LEU:HD23	1.85	0.59
37:DQ:66:ILE:HG22	37:DQ:104:PHE:CD2	2.38	0.59
4:AB:22:LYS:HZ2	4:AB:22:LYS:HA	1.67	0.59
44:BX:15:GLU:H	44:BX:15:GLU:CD	2.06	0.59
1:AA:258:G:H2'	1:AA:259:G:H8	1.68	0.59
26:DB:40:U:H1'	26:DB:45:A:N6	2.18	0.59
28:DE:170:LEU:HB3	28:DE:184:VAL:HG12	1.84	0.59
4:AB:19:HIS:CD2	4:AB:20:GLU:H	2.21	0.59
42:BV:49:THR:HB	42:BV:50:PRO:HD2	1.85	0.58
25:BA:1788:C:H2'	25:BA:1789:A:C8	2.38	0.58
41:DU:92:ARG:CB	41:DU:92:ARG:HH11	2.16	0.58
36:DP:62:LEU:N	36:DP:62:LEU:HD13	2.18	0.58
25:BA:1348:G:C2'	25:BA:1349:A:H5''	2.33	0.58
39:BS:30:ARG:HB3	39:BS:35:ILE:HD13	1.84	0.58
38:DR:10:LEU:HB2	38:DR:17:ARG:HE	1.68	0.58
36:DP:51:PHE:CE1	25:DA:251:A:H5''	2.38	0.58
5:AC:206:GLU:HG2	5:AC:207:VAL:HG23	1.85	0.58
25:DA:270(T):G:H2'	25:DA:270(U):G:H8	1.68	0.58
25:BA:270(T):G:H2'	25:BA:270(U):G:H8	1.68	0.58
1:CA:370:C:H2'	1:CA:371:G:H8	1.68	0.58
32:BI:130:TYR:CD2	32:BI:132:PRO:HG3	2.38	0.58
25:BA:161:U:H3'	25:BA:162:U:H5''	1.85	0.58
1:AA:1281:U:H4'	1:AA:1282:C:OP2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AJ:48:THR:HA	12:AJ:62:HIS:HB3	1.85	0.58
1:AA:475:G:H2'	1:AA:476:G:C8	2.38	0.58
25:BA:2206:C:H2'	25:BA:2207:C:H6	1.68	0.58
32:BI:9:LEU:HB3	32:BI:12:LEU:HD23	1.84	0.58
28:DE:118:LYS:HZ3	38:DR:2:ARG:HH22	1.50	0.58
1:CA:646:U:H2'	1:CA:647:C:C6	2.38	0.58
25:DA:1647:G:H3'	25:DA:1647:G:OP2	2.02	0.58
32:DI:9:LEU:HB3	32:DI:12:LEU:HD23	1.84	0.58
1:AA:603:U:H2'	1:AA:604:G:C8	2.38	0.58
25:DA:1839:G:H5'	25:DA:1839:G:H8	1.68	0.58
46:DZ:95:PRO:HB2	46:DZ:127:LYS:HE3	1.83	0.58
48:D1:46:LEU:HD21	48:D1:61:ARG:NE	2.18	0.58
5:CC:22:TRP:HB3	5:CC:59:ARG:H	1.69	0.58
2:AZ:1:C:H2'	2:AZ:2:G:C8	2.36	0.58
25:DA:1548:C:H2'	25:DA:1549:C:C6	2.38	0.58
1:CA:1520:G:H2'	1:CA:1521:G:H8	1.65	0.58
1:CA:1499:A:H1'	1:CA:1520:G:H5'	1.84	0.58
32:DI:130:TYR:HD2	32:DI:132:PRO:HG3	1.67	0.58
5:CC:20:SER:HB2	5:CC:40:ARG:NH1	2.18	0.58
36:BP:9:ASN:N	36:BP:10:PRO:HD3	2.19	0.58
25:DA:516:C:O2'	25:DA:1262:A:H5'	2.03	0.58
40:DT:16:ARG:H	40:DT:79:HIS:HD2	1.51	0.58
47:D0:24:LYS:HB2	47:D0:37:LEU:O	2.03	0.58
1:CA:475:G:H2'	1:CA:476:G:C8	2.38	0.58
52:D5:3:LYS:HD3	25:DA:747:U:P	2.43	0.58
25:BA:970:C:H2'	25:BA:971:C:H6	1.67	0.58
27:DD:222:ARG:HG3	25:DA:1789:A:OP1	2.03	0.58
44:DX:26:TYR:HB3	44:DX:92:LEU:HD13	1.84	0.58
1:AA:1347:G:N2	1:AA:1373:G:H2'	2.19	0.58
25:BA:1902:C:H5'	27:BD:246:PRO:HD3	1.86	0.58
25:BA:1496:A:H1'	25:BA:1577:C:HO2'	1.68	0.58
25:DA:1794:U:H2'	25:DA:1795:C:C6	2.32	0.58
25:DA:2554:U:H2'	25:DA:2555:U:C6	2.38	0.58
36:BP:39:LYS:CD	36:BP:40:SER:H	2.17	0.58
10:CH:110:ALA:HB3	10:CH:121:ASP:HB3	1.83	0.58
25:DA:1434:A:H61	25:DA:1558:A:N6	1.99	0.58
1:AA:688:G:H2'	1:AA:689:C:C6	2.39	0.58
38:DR:12:ARG:HD3	38:DR:16:HIS:CE1	2.38	0.58
24:CX:5:LEU:HD22	24:CX:48:ILE:HD12	1.85	0.58
14:CL:82:VAL:HG22	14:CL:83:LEU:H	1.68	0.58
32:DI:95:LYS:O	32:DI:99:GLU:HB2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:D1:83:GLU:HG2	48:D1:84:GLY:N	2.18	0.58
25:DA:283:A:H2	25:DA:427:U:H1'	1.68	0.58
30:BG:47:LYS:HG3	30:BG:82:LEU:HD22	1.84	0.58
4:CB:19:HIS:CD2	4:CB:20:GLU:H	2.21	0.58
22:AT:67:ALA:HA	22:AT:72:LEU:O	2.04	0.58
12:CJ:48:THR:HA	12:CJ:62:HIS:HB3	1.84	0.58
25:BA:1632:A:H8	25:BA:1632:A:O5'	1.84	0.58
40:BT:132:LYS:O	40:BT:136:GLN:HG3	2.04	0.58
1:CA:261:U:H5	22:CT:79:ARG:CZ	2.15	0.58
41:BU:92:ARG:CB	41:BU:92:ARG:HH11	2.16	0.58
25:BA:1825:A:H2'	25:BA:1826:G:C8	2.38	0.58
44:BX:89:ILE:HG22	44:BX:92:LEU:H	1.68	0.58
27:BD:34:VAL:O	27:BD:35:LYS:HD3	2.04	0.58
27:BD:140:THR:HG22	27:BD:141:VAL:N	2.18	0.58
24:CX:88:LEU:HA	24:CX:91:GLU:HB2	1.86	0.58
28:BE:151:TYR:HB3	34:BN:102:PRO:HG3	1.85	0.58
5:AC:20:SER:HB2	5:AC:40:ARG:NH1	2.19	0.58
25:BA:516:C:O2'	25:BA:1262:A:H5'	2.04	0.58
25:DA:1230:C:H2'	25:DA:1231:G:H8	1.68	0.58
4:CB:162:ILE:O	4:CB:162:ILE:HD12	2.04	0.58
1:CA:603:U:H2'	1:CA:604:G:C8	2.38	0.58
25:BA:2142:C:H2'	25:BA:2143:C:C6	2.38	0.58
25:BA:1647:G:OP2	25:BA:1647:G:H3'	2.03	0.58
28:BE:119:ARG:HD2	28:BE:120:TRP:NE1	2.19	0.58
25:BA:83:G:N2	25:BA:102:G:H2'	2.18	0.58
14:AL:44:PRO:HG3	14:AL:52:ARG:HD3	1.84	0.58
25:DA:141(A):A:H5''	25:DA:141(B):C:C5	2.34	0.58
39:DS:35:ILE:O	39:DS:53:SER:HB2	2.03	0.58
31:BH:149:ARG:HA	31:BH:162:ILE:HG12	1.86	0.58
4:CB:80:ILE:HD11	4:CB:208:ILE:HG23	1.84	0.58
11:AI:85:LEU:O	11:AI:89:ASN:HB2	2.02	0.58
53:D6:27:LYS:HZ1	25:DA:2285:C:H5	1.48	0.58
2:CZ:71:C:H2'	2:CZ:72:A:C8	2.38	0.58
49:B2:43:GLN:O	49:B2:44:LEU:HG	2.03	0.58
44:DX:31:HIS:CD2	44:DX:33:LYS:H	2.22	0.58
14:AL:82:VAL:HG22	14:AL:83:LEU:H	1.67	0.58
25:DA:407:G:H2'	25:DA:408:G:C8	2.38	0.58
2:AZ:50:U:H2'	2:AZ:51:C:C6	2.39	0.58
26:BB:40:U:H1'	26:BB:45:A:N6	2.18	0.58
6:AD:57:ARG:HB3	6:AD:206:PHE:HB2	1.86	0.58
27:BD:69:ARG:HH21	27:BD:130:ALA:HB2	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:214:G:H1'	25:DA:216:A:O2'	2.02	0.58
25:DA:1825:A:H2'	25:DA:1826:G:C8	2.38	0.58
41:BU:92:ARG:HD2	41:BU:95:LEU:HG	1.86	0.58
41:BU:92:ARG:HD3	41:BU:94:ASN:HB3	1.85	0.58
29:DF:67:GLN:NE2	25:DA:675:A:H4'	2.19	0.58
30:DG:86:MET:N	30:DG:87:PRO:HD2	2.19	0.58
7:AE:6:PHE:CD2	7:AE:36:ASP:HB3	2.34	0.58
30:DG:91:ARG:HG3	25:DA:2313:C:H4'	1.86	0.58
34:BN:126:VAL:O	34:BN:130:LEU:HD12	2.04	0.58
49:D2:46:GLN:O	49:D2:49:LYS:HD3	2.03	0.58
25:BA:407:G:H2'	25:BA:408:G:C8	2.38	0.58
25:BA:2271:G:H2'	25:BA:2272:U:C6	2.38	0.58
28:DE:187:ALA:HB3	25:DA:2729:G:H1'	1.86	0.58
36:DP:9:ASN:N	36:DP:10:PRO:HD3	2.18	0.58
38:BR:28:LEU:HD11	38:BR:116:LEU:HD21	1.85	0.58
1:CA:1513:A:H2'	1:CA:1514:C:C6	2.38	0.58
1:CA:1152:A:H5''	12:CJ:13:HIS:CD2	2.37	0.58
11:AI:15:ALA:HA	11:AI:65:VAL:HA	1.86	0.58
25:BA:539:G:H2'	25:BA:540:G:H8	1.68	0.58
25:BA:55:G:H2'	25:BA:56:A:H8	1.68	0.58
47:D0:19:LYS:HB2	47:D0:21:LEU:HD11	1.85	0.58
41:DU:15:LYS:O	41:DU:19:LYS:HG3	2.02	0.58
25:BA:307:G:H8	25:BA:307:G:O5'	1.87	0.58
25:BA:247:G:H4'	25:BA:386:G:C6	2.39	0.58
40:DT:77:PRO:HB2	40:DT:80:SER:HB2	1.85	0.58
41:BU:92:ARG:HD2	41:BU:95:LEU:H	1.67	0.58
12:CJ:49:VAL:O	12:CJ:60:ARG:HB2	2.04	0.58
25:BA:2554:U:H2'	25:BA:2555:U:C6	2.39	0.58
1:CA:878:G:H5'	10:CH:89:PRO:HG2	1.85	0.58
37:DQ:6:ARG:O	37:DQ:7:MET:HB2	2.03	0.58
32:DI:109:ILE:H	32:DI:109:ILE:HD13	1.69	0.58
9:AG:15:ASP:CB	9:AG:20:ASP:H	2.17	0.58
43:BW:73:ALA:O	43:BW:106:ILE:HG12	2.03	0.58
27:BD:118:VAL:HG22	27:BD:119:ALA:H	1.69	0.58
35:BO:35:VAL:HG23	35:BO:65:THR:HG23	1.86	0.58
4:CB:97:TRP:HZ2	4:CB:102:LEU:HD13	1.67	0.58
1:AA:744:C:H2'	1:AA:745:C:C6	2.39	0.58
21:CS:69:HIS:HB3	21:CS:73:GLU:HG3	1.86	0.58
28:DE:151:TYR:HB3	34:DN:102:PRO:HG3	1.86	0.58
22:CT:67:ALA:HA	22:CT:72:LEU:O	2.04	0.58
1:CA:744:C:H2'	1:CA:745:C:C6	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DX:15:GLU:H	44:DX:15:GLU:CD	2.05	0.58
1:AA:1118:C:H5'	1:AA:1118:C:H6	1.69	0.58
6:CD:3:ARG:HD3	6:CD:5:ILE:HD11	1.85	0.58
41:DU:92:ARG:HD2	41:DU:95:LEU:HG	1.85	0.58
42:DV:49:THR:HB	42:DV:50:PRO:HD2	1.85	0.58
25:DA:1496:A:H1'	25:DA:1577:C:HO2'	1.67	0.58
24:CX:163:ARG:HA	24:CX:163:ARG:HE	1.69	0.58
38:BR:10:LEU:HB2	38:BR:17:ARG:HE	1.68	0.58
1:CA:1285:A:H4'	1:CA:1286:A:O5'	2.04	0.58
1:AA:892:A:H2'	1:AA:893:C:H6	1.67	0.58
18:AP:22:THR:HA	18:AP:33:ILE:HG12	1.86	0.58
27:DD:32:SER:HA	27:DD:36:PRO:HG2	1.84	0.58
27:DD:34:VAL:O	27:DD:35:LYS:HD3	2.04	0.58
18:CP:22:THR:HA	18:CP:33:ILE:HG12	1.86	0.58
25:DA:1786:A:H3'	25:DA:1787:A:C8	2.38	0.58
12:CJ:82:ILE:O	12:CJ:86:MET:HB2	2.04	0.58
25:DA:1175:U:OP1	25:DA:1175:U:H4'	2.04	0.58
26:DB:35:U:H2'	26:DB:36:C:C6	2.39	0.58
25:DA:1230:C:H2'	25:DA:1231:G:C8	2.39	0.58
1:AA:1097:C:H2'	1:AA:1098:C:C6	2.39	0.58
37:BQ:66:ILE:HG22	37:BQ:104:PHE:CD2	2.38	0.58
1:CA:258:G:H2'	1:CA:259:G:H8	1.68	0.58
11:AI:113:LYS:HG2	11:AI:119:ALA:HA	1.85	0.58
32:BI:56:LYS:HA	32:BI:59:ALA:HB3	1.85	0.58
46:DZ:51:ALA:HB1	46:DZ:57:ILE:HD11	1.86	0.58
11:CI:15:ALA:HA	11:CI:65:VAL:HA	1.86	0.58
25:BA:214:G:H1'	25:BA:216:A:O2'	2.03	0.58
27:DD:161:THR:H	27:DD:196:VAL:HB	1.69	0.58
1:AA:1513:A:H2'	1:AA:1514:C:C6	2.39	0.58
43:BW:51:LEU:HD23	43:BW:105:VAL:HG11	1.86	0.58
25:BA:1608:A:H1'	25:BA:1610:A:OP2	2.04	0.58
42:BV:38:LEU:O	42:BV:39:LEU:HD13	2.04	0.58
31:DH:149:ARG:HA	31:DH:162:ILE:HG12	1.86	0.58
25:BA:2011:U:H2'	25:BA:2012:G:O4'	2.03	0.58
39:BS:34:HIS:ND1	39:BS:54:LEU:HB2	2.19	0.58
46:DZ:10:ARG:NH2	46:DZ:26:GLY:H	2.01	0.58
36:BP:40:SER:O	36:BP:41:ARG:HD2	2.04	0.58
25:BA:2590:A:H2'	25:BA:2591:C:C6	2.39	0.58
51:D4:46:ASN:HB2	51:D4:64:LYS:CB	2.34	0.58
15:CM:14:ARG:HG2	15:CM:44:ARG:NH1	2.19	0.58
43:BW:29:LEU:HG	43:BW:33:ARG:HE	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DP:105:LEU:CB	25:DA:626:U:H3	2.17	0.58
25:DA:959:A:H2'	25:DA:960:A:C8	2.37	0.58
41:DU:34:LYS:HA	41:DU:34:LYS:HE2	1.84	0.58
46:BZ:118:GLN:HB2	46:BZ:173:ALA:O	2.03	0.58
1:CA:926:G:H22	3:CV:15:A:H3'	1.69	0.58
40:DT:28:VAL:HG23	40:DT:87:ASP:O	2.03	0.58
25:DA:2142:C:H2'	25:DA:2143:C:C6	2.39	0.58
5:CC:66:VAL:HB	5:CC:101:LEU:HD23	1.85	0.58
45:DY:76:CYS:SG	45:DY:77:PRO:HD2	2.43	0.58
45:BY:76:CYS:CB	45:BY:77:PRO:CD	2.81	0.58
48:B1:62:VAL:HG22	48:B1:63:ALA:N	2.18	0.58
25:BA:2313:C:H4'	30:BG:91:ARG:HG3	1.86	0.58
40:BT:25:GLY:H	40:BT:49:VAL:HG13	1.69	0.58
32:DI:98:ALA:HA	32:DI:109:ILE:HD11	1.86	0.58
1:CA:1199:U:H4'	12:CJ:54:PHE:CE1	2.39	0.58
49:D2:43:GLN:O	49:D2:44:LEU:HG	2.04	0.58
38:BR:12:ARG:HD3	38:BR:16:HIS:CE1	2.38	0.58
30:DG:7:LEU:HA	30:DG:10:LYS:HD2	1.86	0.58
25:BA:1817:G:H3'	27:BD:157:ARG:NH2	2.19	0.58
13:CK:57:THR:HG22	13:CK:59:TYR:H	1.69	0.58
25:DA:2115:G:H1'	25:DA:2171:A:H61	1.69	0.58
46:DZ:180:VAL:HG23	46:DZ:181:GLU:H	1.69	0.58
1:AA:1203:C:H2'	1:AA:1204:A:H8	1.68	0.58
39:BS:14:VAL:HG12	39:BS:18:ILE:HD11	1.86	0.58
27:DD:5:LYS:HD2	27:DD:5:LYS:N	2.19	0.58
25:DA:1789:A:H2'	25:DA:1790:C:O4'	2.02	0.57
45:DY:4:LYS:H	45:DY:4:LYS:HD3	1.69	0.57
29:BF:81:PRO:HB3	29:BF:89:VAL:HG22	1.84	0.57
36:BP:62:LEU:N	36:BP:62:LEU:HD13	2.19	0.57
5:AC:22:TRP:HB3	5:AC:59:ARG:H	1.68	0.57
25:BA:1384:A:N3	25:BA:1405:U:H1'	2.19	0.57
28:DE:51:PHE:HB3	28:DE:52:LEU:HD12	1.86	0.57
4:AB:168:THR:HG1	4:AB:192:SER:HA	1.69	0.57
21:CS:49:ILE:H	21:CS:49:ILE:HD12	1.69	0.57
4:AB:178:ARG:HD2	10:AH:71:GLY:O	2.04	0.57
25:DA:1771:C:H2'	25:DA:1772:G:C8	2.39	0.57
27:DD:204:ILE:O	27:DD:204:ILE:HD12	2.04	0.57
15:AM:14:ARG:HG2	15:AM:44:ARG:NH1	2.19	0.57
25:DA:1766:U:H2'	25:DA:1767:C:C6	2.38	0.57
14:AL:68:TYR:O	14:AL:99:ILE:HG22	2.03	0.57
41:BU:36:ARG:HG2	41:BU:40:PHE:CE1	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BX:31:HIS:CD2	44:BX:33:LYS:H	2.22	0.57
48:D1:82:LEU:O	48:D1:83:GLU:HB2	2.04	0.57
25:BA:990:A:C6	25:BA:1186:G:H1'	2.38	0.57
46:DZ:46:LYS:HD3	25:DA:1040:C:H4'	1.86	0.57
30:BG:55:LYS:O	30:BG:59:GLU:HG3	2.03	0.57
25:BA:2293:C:H4'	39:BS:93:LYS:NZ	2.19	0.57
7:AE:151:LEU:HD13	10:AH:77:GLU:HG2	1.86	0.57
5:AC:89:GLU:O	5:AC:93:LYS:HB2	2.04	0.57
30:DG:28:VAL:O	30:DG:31:VAL:HG12	2.04	0.57
25:BA:910:A:C6	25:BA:911:A:C6	2.92	0.57
25:BA:2600:A:O2'	25:BA:2601:C:H5'	2.04	0.57
1:CA:1097:C:H2'	1:CA:1098:C:C6	2.38	0.57
37:BQ:27:VAL:HG23	46:BZ:81:ARG:NH2	2.19	0.57
40:BT:77:PRO:HB2	40:BT:80:SER:HB2	1.86	0.57
4:AB:17:PHE:HB2	4:AB:42:ILE:HG22	1.86	0.57
28:BE:120:TRP:HB2	28:BE:122:PHE:CE1	2.39	0.57
29:DF:139:PHE:CB	29:DF:166:ALA:HB1	2.31	0.57
25:BA:2028:U:H2'	25:BA:2029:G:C8	2.38	0.57
39:DS:34:HIS:ND1	39:DS:54:LEU:HB2	2.19	0.57
34:BN:40:ASP:CG	34:BN:41:ALA:H	2.08	0.57
1:CA:688:G:H2'	1:CA:689:C:H6	1.68	0.57
9:CG:15:ASP:CB	9:CG:20:ASP:H	2.17	0.57
30:BG:7:LEU:HA	30:BG:10:LYS:HD2	1.86	0.57
25:BA:1175:U:OP1	25:BA:1175:U:H4'	2.03	0.57
22:CT:45:GLN:HG2	22:CT:91:LEU:HD22	1.85	0.57
43:DW:51:LEU:HD23	43:DW:105:VAL:HG11	1.86	0.57
25:BA:1040:C:H4'	46:BZ:46:LYS:HD3	1.85	0.57
6:AD:49:ARG:NH2	6:AD:50:ARG:HB2	2.19	0.57
41:DU:31:SER:O	41:DU:32:PHE:C	2.42	0.57
1:AA:1233:G:H2'	1:AA:1234:C:C6	2.39	0.57
40:BT:28:VAL:HG23	40:BT:87:ASP:O	2.03	0.57
25:DA:2210:G:N3	25:DA:2210:G:H3'	2.19	0.57
1:CA:1233:G:H2'	1:CA:1234:C:C6	2.39	0.57
41:DU:92:ARG:HG2	42:DV:11:GLN:HG3	1.86	0.57
48:B1:11:ARG:HH11	48:B1:61:ARG:N	2.02	0.57
25:DA:675:A:O2'	25:DA:676:A:H5'	2.04	0.57
46:DZ:10:ARG:HH21	46:DZ:26:GLY:H	1.53	0.57
40:BT:26:ASP:HB2	40:BT:91:ARG:HA	1.85	0.57
27:BD:62:TYR:HA	27:BD:87:ASN:ND2	2.19	0.57
41:DU:62:ILE:HG23	41:DU:76:TYR:CE1	2.39	0.57
34:BN:36:TRP:O	34:BN:158:PRO:HG2	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AX:87:ALA:O	24:AX:91:GLU:HG2	2.03	0.57
21:CS:63:THR:HG22	21:CS:66:MET:HE3	1.85	0.57
12:AJ:32:ALA:H	12:AJ:78:ASN:ND2	2.02	0.57
25:DA:1923:U:H2'	25:DA:1924:C:H6	1.69	0.57
26:BB:45:A:H1'	30:BG:95:ARG:NH1	2.19	0.57
17:CO:44:LYS:O	17:CO:47:LYS:HE3	2.04	0.57
5:CC:89:GLU:O	5:CC:93:LYS:HB2	2.05	0.57
4:CB:235:SER:O	4:CB:239:VAL:HG23	2.03	0.57
22:AT:40:ALA:HB2	22:AT:55:ILE:HG22	1.86	0.57
48:B1:83:GLU:HG2	48:B1:84:GLY:N	2.18	0.57
9:CG:111:ARG:HB3	9:CG:113:GLU:HG2	1.85	0.57
27:BD:231:HIS:CG	27:BD:232:PRO:HD2	2.39	0.57
1:AA:1285:A:H4'	1:AA:1286:A:O5'	2.04	0.57
41:DU:92:ARG:HD3	41:DU:94:ASN:HB3	1.86	0.57
32:BI:114:LEU:HD21	32:BI:128:LEU:HD13	1.85	0.57
53:D6:11:LEU:HD21	53:D6:51:GLU:CD	2.25	0.57
25:BA:626:U:H3	36:BP:105:LEU:CB	2.17	0.57
34:DN:135:LEU:HD13	25:DA:558:G:H5'	1.87	0.57
43:DW:73:ALA:O	43:DW:106:ILE:HG12	2.04	0.57
45:BY:7:VAL:HB	45:BY:8:LYS:HZ2	1.68	0.57
1:CA:1327:C:H2'	1:CA:1328:C:C6	2.40	0.57
28:BE:171:GLU:HG2	28:BE:185:LYS:HG2	1.87	0.57
25:DA:1138:G:H2'	25:DA:1139:G:O4'	2.05	0.57
29:DF:110:LEU:HD11	29:DF:181:LEU:HB3	1.86	0.57
35:DO:35:VAL:HG23	35:DO:65:THR:HG23	1.86	0.57
25:DA:1972:A:H2'	25:DA:1973:G:C8	2.39	0.57
25:BA:1833:U:H2'	25:BA:1834:U:H6	1.70	0.57
27:DD:133:LEU:HD13	27:DD:173:VAL:HG13	1.87	0.57
42:DV:38:LEU:O	42:DV:39:LEU:HD13	2.05	0.57
29:BF:63:LYS:HZ3	29:BF:67:GLN:HG2	1.69	0.57
25:DA:676:A:H8	25:DA:2069:G:H21	1.52	0.57
29:DF:67:GLN:HE21	25:DA:675:A:H4'	1.69	0.57
25:BA:2553:G:H2'	25:BA:2554:U:O4'	2.03	0.57
51:B4:46:ASN:HB2	51:B4:64:LYS:CB	2.35	0.57
1:AA:684:A:H2'	1:AA:685:G:H8	1.67	0.57
24:AX:5:LEU:HD22	24:AX:48:ILE:HD12	1.86	0.57
53:B6:11:LEU:HD21	53:B6:51:GLU:CD	2.24	0.57
21:AS:40:ILE:HG12	21:AS:71:LEU:HD23	1.87	0.57
36:DP:16:ARG:CZ	36:DP:18:ARG:HG3	2.33	0.57
32:DI:130:TYR:CD2	32:DI:132:PRO:HG3	2.40	0.57
30:DG:95:ARG:NH1	26:DB:45:A:H1'	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2410:G:H2'	25:DA:2411:A:H8	1.70	0.57
25:BA:2573:C:H5''	25:BA:2574:G:H5''	1.85	0.57
37:DQ:27:VAL:HG23	46:DZ:81:ARG:NH2	2.19	0.57
9:AG:91:VAL:HG12	9:AG:92:SER:H	1.68	0.57
24:CX:325:GLU:HG3	24:CX:326:GLY:H	1.70	0.57
36:DP:89:ALA:HB1	36:DP:121:LYS:HD3	1.87	0.57
12:CJ:96:ILE:HD13	12:CJ:96:ILE:H	1.69	0.57
25:BA:2210:G:N3	25:BA:2210:G:H3'	2.19	0.57
1:AA:256:U:H2'	1:AA:257:G:C8	2.39	0.57
45:BY:76:CYS:SG	45:BY:77:PRO:HD2	2.44	0.57
46:BZ:70:LEU:HD21	46:BZ:91:LEU:HG	1.87	0.57
1:AA:1199:U:H4'	12:AJ:54:PHE:CE1	2.40	0.57
53:B6:30:THR:O	53:B6:32:ASN:N	2.37	0.57
32:DI:6:LEU:HD23	32:DI:6:LEU:H	1.69	0.57
25:DA:2271:G:H2'	25:DA:2272:U:C6	2.38	0.57
14:CL:123:LYS:HG3	14:CL:124:PRO:HD2	1.87	0.57
1:CA:1301:U:H3'	1:CA:1302:U:H5''	1.87	0.57
16:AN:24:CYS:HB3	16:AN:29:ARG:H	1.69	0.57
7:CE:151:LEU:HD13	10:CH:77:GLU:HG2	1.86	0.57
25:BA:1230:C:H2'	25:BA:1231:G:H8	1.69	0.57
46:BZ:166:SER:O	46:BZ:168:GLU:N	2.38	0.57
32:BI:95:LYS:O	32:BI:99:GLU:HB2	2.04	0.57
4:AB:162:ILE:HD12	4:AB:162:ILE:O	2.03	0.57
30:BG:28:VAL:O	30:BG:31:VAL:HG12	2.05	0.57
48:B1:46:LEU:HD23	48:B1:46:LEU:O	2.05	0.57
25:DA:482:A:H1'	25:DA:498:G:N2	2.19	0.57
37:BQ:141:GLN:HA	46:BZ:71:VAL:O	2.04	0.57
1:AA:688:G:H2'	1:AA:689:C:H6	1.70	0.57
34:DN:126:VAL:O	34:DN:130:LEU:HD12	2.05	0.57
25:DA:2286:A:H4'	25:DA:2287:A:O4'	2.05	0.57
44:BX:64:LYS:HG2	44:BX:65:ARG:N	2.19	0.57
32:BI:6:LEU:H	32:BI:6:LEU:HD23	1.70	0.57
1:AA:1327:C:H2'	1:AA:1328:C:C6	2.40	0.57
25:BA:2729:G:H1'	28:BE:187:ALA:HB3	1.86	0.57
1:CA:1333:A:H2'	1:CA:1334:G:O4'	2.05	0.57
47:B0:24:LYS:HB2	47:B0:37:LEU:O	2.04	0.57
1:AA:936:C:H2'	1:AA:937:A:O4'	2.05	0.57
34:DN:34:PRO:HB3	34:DN:74:PHE:CE1	2.40	0.57
33:BJ:57:THR:HG23	33:BJ:60:ARG:HH12	1.69	0.57
1:AA:1301:U:H3'	1:AA:1302:U:H5''	1.87	0.57
27:BD:161:THR:H	27:BD:196:VAL:HB	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2206:C:H2'	25:DA:2207:C:H6	1.69	0.57
25:BA:1839:G:H5'	25:BA:1839:G:H8	1.70	0.57
25:BA:1328:G:H8	25:BA:1328:G:O5'	1.88	0.57
25:BA:1669:A:H5''	25:BA:2550:G:OP1	2.05	0.57
48:D1:46:LEU:HD23	48:D1:46:LEU:O	2.05	0.57
29:BF:139:PHE:CB	29:BF:166:ALA:HB1	2.31	0.57
25:DA:2681:C:H5	25:DA:2725:A:N6	1.98	0.57
1:AA:878:G:H5'	10:AH:89:PRO:HG2	1.86	0.57
25:DA:1434:A:H2'	25:DA:1435:G:C8	2.40	0.57
4:AB:51:LEU:HD23	4:AB:201:ILE:HD12	1.87	0.57
21:AS:31:ILE:HG23	21:AS:49:ILE:HA	1.87	0.57
32:BI:98:ALA:HA	32:BI:109:ILE:HD11	1.85	0.57
1:AA:1355:G:H2'	1:AA:1356:G:C8	2.39	0.57
39:DS:14:VAL:HG12	39:DS:18:ILE:HD11	1.86	0.57
25:BA:1771:C:H2'	25:BA:1772:G:C8	2.40	0.57
25:DA:27:G:H1'	25:DA:513:A:N6	2.19	0.57
53:D6:30:THR:O	53:D6:32:ASN:N	2.38	0.57
25:BA:442:G:H1'	29:BF:48:THR:HG21	1.87	0.57
27:DD:144:ALA:HB3	27:DD:192:THR:HG22	1.86	0.57
36:BP:114:ILE:HD12	36:BP:114:ILE:O	2.05	0.57
1:AA:238:G:P	19:AQ:25:ARG:HH22	2.28	0.57
1:CA:121:C:N4	1:CA:237:C:H41	2.03	0.57
25:BA:2020:A:H5'	52:B5:12:SER:HB3	1.87	0.57
27:DD:69:ARG:HH21	27:DD:130:ALA:HB2	1.68	0.57
25:BA:2115:G:H1'	25:BA:2171:A:H61	1.69	0.57
25:BA:49:A:H4'	25:BA:50:U:H5''	1.86	0.57
29:DF:126:VAL:O	29:DF:196:LEU:HG	2.05	0.57
25:BA:1970:A:H5''	25:BA:1971:A:OP1	2.04	0.57
25:BA:1972:A:H2'	25:BA:1973:G:C8	2.39	0.57
25:BA:1590:U:H2'	25:BA:1591:G:C8	2.39	0.57
1:CA:397:A:H5'	1:CA:398:C:OP1	2.05	0.57
48:D1:20:ARG:NH1	25:DA:380:U:H1'	2.19	0.57
41:BU:66:ASN:O	41:BU:70:ARG:HB2	2.05	0.57
34:BN:58:ARG:HH21	34:BN:131:PRO:HG3	1.70	0.57
25:DA:1590:U:H2'	25:DA:1591:G:C8	2.40	0.57
22:AT:45:GLN:HG2	22:AT:91:LEU:HD22	1.85	0.57
25:BA:1578:U:C2'	25:BA:1579:A:H5''	2.32	0.57
46:BZ:10:ARG:NH2	46:BZ:26:GLY:H	2.02	0.57
21:AS:49:ILE:HD12	21:AS:49:ILE:H	1.70	0.57
25:BA:686:G:H21	25:BA:788:A:H61	1.53	0.57
24:AX:88:LEU:HA	24:AX:91:GLU:HB2	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:534:U:H3	25:BA:559:G:H1	1.52	0.57
25:DA:910:A:C6	25:DA:911:A:C6	2.93	0.57
25:BA:1923:U:H2'	25:BA:1924:C:H6	1.70	0.57
29:BF:178:PRO:HB2	29:BF:201:VAL:HG11	1.87	0.57
1:AA:296:U:H2'	1:AA:297:G:C8	2.40	0.57
25:BA:2689:U:H4'	25:BA:2690:C:H6	1.70	0.57
22:AT:58:LYS:O	22:AT:62:LEU:HB2	2.05	0.57
1:AA:1127:G:N2	1:AA:1147:C:H42	2.03	0.57
25:DA:2573:C:H5''	25:DA:2574:G:H5''	1.86	0.57
4:CB:17:PHE:HB2	4:CB:42:ILE:HG22	1.85	0.57
1:CA:936:C:H2'	1:CA:937:A:O4'	2.05	0.57
33:DJ:57:THR:HG23	33:DJ:60:ARG:HH12	1.69	0.57
24:CX:234:THR:HG23	24:CX:235:THR:H	1.69	0.57
24:CX:184:PRO:HG2	24:CX:187:GLU:HG2	1.87	0.57
28:DE:120:TRP:HB2	28:DE:122:PHE:CE1	2.40	0.57
11:AI:10:ARG:HH21	11:AI:107:ARG:HB2	1.70	0.57
24:AX:223:ARG:HH11	24:AX:223:ARG:HG3	1.70	0.57
45:BY:31:LEU:HD23	45:BY:31:LEU:N	2.20	0.57
25:DA:2590:A:H2'	25:DA:2591:C:C6	2.40	0.57
1:CA:1323:G:H2'	1:CA:1324:A:C8	2.40	0.57
20:AR:74:ARG:HA	20:AR:79:LEU:O	2.05	0.57
25:BA:1548:C:H2'	25:BA:1549:C:C6	2.38	0.57
1:CA:559:A:H4'	1:CA:560:U:C5'	2.34	0.57
36:DP:71:VAL:HB	36:DP:72:PRO:HD3	1.87	0.57
1:AA:678:U:H2'	1:AA:679:C:C6	2.39	0.57
4:CB:69:LEU:HD22	4:CB:159:PRO:HG2	1.86	0.57
34:BN:34:PRO:HB3	34:BN:74:PHE:CE1	2.39	0.57
25:BA:278:A:H61	25:BA:362:U:H3	1.52	0.57
6:AD:76:ARG:HD3	6:AD:207:TYR:CE2	2.40	0.57
25:BA:1731:G:HO2'	25:BA:1732:A:H8	1.52	0.57
25:BA:193:U:H2'	25:BA:194:G:H8	1.70	0.57
2:CZ:50:U:H2'	2:CZ:51:C:C6	2.39	0.57
39:DS:93:LYS:NZ	25:DA:2293:C:H4'	2.19	0.57
14:AL:5:THR:HG23	14:AL:8:GLN:HE21	1.69	0.57
14:CL:37:THR:HG23	14:CL:38:VAL:H	1.69	0.57
20:CR:84:LYS:HA	20:CR:84:LYS:NZ	2.20	0.57
25:BA:655:A:O2'	25:BA:656:G:H5'	2.05	0.57
41:BU:92:ARG:HG2	42:BV:11:GLN:HG3	1.86	0.56
30:BG:86:MET:N	30:BG:87:PRO:HD2	2.19	0.56
16:AN:6:LEU:HD22	16:AN:21:TYR:HH	1.69	0.56
39:DS:98:VAL:HA	39:DS:101:LEU:HD23	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:482:A:H1'	25:BA:498:G:N2	2.19	0.56
27:BD:144:ALA:HB3	27:BD:192:THR:HG22	1.87	0.56
25:BA:388:G:H5'	25:BA:389:G:OP2	2.04	0.56
25:BA:2292:C:H2'	25:BA:2293:C:C6	2.40	0.56
46:BZ:167:PRO:O	46:BZ:168:GLU:HB2	2.05	0.56
1:AA:1095:U:H2'	1:AA:1096:C:C6	2.40	0.56
53:D6:15:GLU:OE2	53:D6:18:ARG:HD2	2.05	0.56
46:DZ:166:SER:O	46:DZ:168:GLU:N	2.38	0.56
34:BN:43:GLY:HA2	34:BN:84:ARG:HG3	1.87	0.56
16:AN:12:ARG:HB3	16:AN:14:PRO:HD3	1.85	0.56
25:DA:1669:A:H5''	25:DA:2550:G:OP1	2.05	0.56
46:DZ:102:LEU:HD23	46:DZ:137:ILE:HB	1.86	0.56
25:BA:323:G:H2'	29:BF:169:ASN:OD1	2.05	0.56
25:DA:1493:C:O2	25:DA:1493:C:H2'	2.04	0.56
29:DF:169:ASN:OD1	25:DA:323:G:H2'	2.05	0.56
52:D5:12:SER:HB3	25:DA:2020:A:H5'	1.85	0.56
25:DA:2259:G:H1'	25:DA:2427:C:C2	2.40	0.56
24:CX:223:ARG:HH11	24:CX:223:ARG:HG3	1.70	0.56
1:CA:892:A:H2'	1:CA:893:C:H6	1.67	0.56
25:BA:848:G:C2	25:BA:933:A:H1'	2.41	0.56
32:DI:68:LEU:O	32:DI:72:LEU:HB2	2.06	0.56
25:BA:651:G:C2'	25:BA:652:U:H5''	2.35	0.56
12:AJ:78:ASN:O	12:AJ:82:ILE:HG12	2.06	0.56
1:CA:678:U:H2'	1:CA:679:C:C6	2.40	0.56
25:BA:1230:C:H2'	25:BA:1231:G:C8	2.40	0.56
40:BT:16:ARG:H	40:BT:79:HIS:CD2	2.23	0.56
46:BZ:51:ALA:HB1	46:BZ:57:ILE:HD11	1.86	0.56
1:CA:231:G:H2'	1:CA:232:G:H8	1.69	0.56
32:BI:58:LEU:HD23	32:BI:61:ARG:HD2	1.87	0.56
19:AQ:86:GLU:O	19:AQ:90:ILE:HG12	2.05	0.56
29:DF:178:PRO:HB2	29:DF:201:VAL:HG11	1.87	0.56
1:CA:296:U:H2'	1:CA:297:G:C8	2.40	0.56
22:CT:58:LYS:O	22:CT:62:LEU:HB2	2.05	0.56
25:BA:2259:G:H1'	25:BA:2427:C:C2	2.39	0.56
25:BA:1075:C:H2'	25:BA:1076:C:H6	1.68	0.56
17:CO:63:ARG:HH21	17:CO:87:ILE:HG21	1.70	0.56
15:AM:3:ARG:HA	15:AM:9:ILE:HG12	1.86	0.56
24:AX:163:ARG:HE	24:AX:163:ARG:HA	1.70	0.56
25:DA:2722:G:H5''	25:DA:2820:A:C2	2.38	0.56
25:DA:848:G:C2	25:DA:933:A:H1'	2.40	0.56
37:DQ:141:GLN:HA	46:DZ:71:VAL:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:D1:92:LYS:HE2	25:DA:153:C:OP1	2.06	0.56
25:DA:1771:C:H2'	25:DA:1772:G:H8	1.70	0.56
45:BY:49:VAL:O	45:BY:50:ARG:HB2	2.05	0.56
25:BA:2286:A:H4'	25:BA:2287:A:O4'	2.05	0.56
1:AA:559:A:H4'	1:AA:560:U:C5'	2.35	0.56
25:BA:27:G:H1'	25:BA:513:A:N6	2.20	0.56
1:AA:1060:C:H5''	12:AJ:51:ARG:HB3	1.87	0.56
15:AM:87:TYR:HE1	21:AS:76:PRO:HA	1.69	0.56
39:BS:99:LYS:O	39:BS:103:GLU:HB2	2.06	0.56
25:DA:2735:G:H2'	25:DA:2736:G:C8	2.40	0.56
40:BT:118:ARG:HA	40:BT:121:ILE:HB	1.86	0.56
25:DA:2410:G:H2'	25:DA:2411:A:C8	2.39	0.56
4:AB:69:LEU:HD22	4:AB:159:PRO:HG2	1.87	0.56
1:CA:238:G:P	19:CQ:25:ARG:HH22	2.28	0.56
25:BA:657:U:H2'	25:BA:658:C:C6	2.40	0.56
25:BA:1187:G:HO2'	25:BA:1188:U:H6	1.54	0.56
25:DA:1328:G:H2'	25:DA:1330:C:C5	2.40	0.56
36:BP:89:ALA:HB1	36:BP:121:LYS:HD3	1.86	0.56
30:DG:55:LYS:O	30:DG:59:GLU:HG3	2.06	0.56
33:BJ:66:LEU:O	33:BJ:66:LEU:HD23	2.05	0.56
45:DY:35:TYR:CD2	45:DY:69:ALA:HB3	2.41	0.56
1:CA:1017:G:H2'	1:CA:1018:C:C6	2.41	0.56
25:DA:2212:A:H1'	25:DA:2215:G:C4	2.39	0.56
1:AA:231:G:H2'	1:AA:232:G:H8	1.70	0.56
2:AZ:56:C:H2'	2:AZ:57:A:C8	2.41	0.56
20:AR:84:LYS:NZ	20:AR:84:LYS:HA	2.19	0.56
1:CA:1118:C:H5'	1:CA:1118:C:H6	1.70	0.56
25:BA:1697:G:H3'	25:BA:1698:A:H5''	1.88	0.56
46:BZ:180:VAL:HG23	46:BZ:181:GLU:H	1.69	0.56
24:AX:234:THR:HG23	24:AX:235:THR:H	1.70	0.56
10:AH:120:THR:H	10:AH:123:GLU:HB2	1.71	0.56
25:BA:2212:A:H1'	25:BA:2215:G:C4	2.39	0.56
1:AA:600:C:OP1	10:AH:97:VAL:HG12	2.05	0.56
25:BA:1505:C:H2'	25:BA:1506:C:C6	2.41	0.56
22:CT:40:ALA:HB2	22:CT:55:ILE:HG22	1.87	0.56
25:BA:1126:A:H4'	25:BA:1127:A:H5''	1.87	0.56
25:BA:428:A:H8	25:BA:428:A:O5'	1.88	0.56
19:CQ:86:GLU:O	19:CQ:90:ILE:HG12	2.05	0.56
1:AA:1333:A:H2'	1:AA:1334:G:O4'	2.05	0.56
25:BA:1788:C:H2'	25:BA:1789:A:H8	1.69	0.56
25:DA:1384:A:N3	25:DA:1405:U:H1'	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CJ:49:VAL:HG22	12:CJ:50:ILE:N	2.17	0.56
12:AJ:49:VAL:O	12:AJ:60:ARG:HB2	2.05	0.56
25:BA:1993:U:H2'	25:BA:1994:C:H6	1.70	0.56
31:BH:144:VAL:O	31:BH:148:ILE:HG12	2.05	0.56
4:AB:178:ARG:HG3	10:AH:72:PRO:HA	1.88	0.56
39:DS:21:THR:HG23	25:DA:2379:G:H5'	1.88	0.56
25:BA:1771:C:H2'	25:BA:1772:G:H8	1.70	0.56
25:DA:2645:G:H3'	25:DA:2646:C:H5'	1.87	0.56
15:CM:14:ARG:NH1	15:CM:42:ALA:HA	2.20	0.56
45:BY:13:VAL:HG11	45:BY:72:VAL:HB	1.87	0.56
45:BY:8:LYS:N	45:BY:8:LYS:HZ2	2.02	0.56
12:AJ:82:ILE:O	12:AJ:86:MET:HB2	2.05	0.56
36:DP:135:LEU:HD13	36:DP:135:LEU:O	2.05	0.56
40:BT:16:ARG:H	40:BT:79:HIS:HD2	1.52	0.56
1:CA:435:C:H2'	1:CA:436:C:H6	1.71	0.56
8:AF:15:ASP:OD1	8:AF:17:SER:HB2	2.05	0.56
37:BQ:124:LYS:HA	37:BQ:124:LYS:HE2	1.87	0.56
1:AA:512:U:H2'	1:AA:513:C:H6	1.71	0.56
25:DA:2789:C:H1'	25:DA:2892:A:C2	2.41	0.56
34:DN:65:TRP:CD1	41:DU:63:VAL:HG11	2.41	0.56
37:DQ:14:ARG:NH1	37:DQ:14:ARG:CG	2.65	0.56
25:BA:2722:G:H2'	25:BA:2723:C:C6	2.41	0.56
39:DS:30:ARG:HB3	39:DS:35:ILE:HD13	1.85	0.56
36:DP:23:PRO:HD2	36:DP:33:ARG:NH2	2.20	0.56
21:CS:31:ILE:HG23	21:CS:49:ILE:HA	1.87	0.56
25:BA:680:G:H2'	25:BA:681:G:C8	2.40	0.56
41:BU:58:ARG:O	41:BU:62:ILE:HG12	2.06	0.56
4:AB:154:LEU:HD13	4:AB:155:LEU:H	1.71	0.56
20:CR:74:ARG:HA	20:CR:79:LEU:O	2.05	0.56
6:CD:13:ARG:NH2	6:CD:40:PRO:HA	2.20	0.56
6:AD:13:ARG:NH2	6:AD:40:PRO:HA	2.20	0.56
24:CX:5:LEU:HD13	24:CX:52:ARG:HE	1.71	0.56
1:CA:392:G:H2'	1:CA:393:A:C8	2.40	0.56
25:BA:74:A:H4'	25:BA:75:G:O5'	2.05	0.56
25:DA:2599:G:H2'	25:DA:2600:A:H8	1.70	0.56
4:AB:17:PHE:HB2	4:AB:42:ILE:CG2	2.36	0.56
1:AA:255:G:H2'	1:AA:256:U:C6	2.40	0.56
27:DD:118:VAL:HG22	27:DD:119:ALA:N	2.21	0.56
34:BN:58:ARG:NH2	34:BN:131:PRO:HG3	2.21	0.56
34:BN:65:TRP:CD1	41:BU:63:VAL:HG11	2.41	0.56
25:DA:2292:C:H2'	25:DA:2293:C:C6	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BF:110:LEU:HD11	29:BF:181:LEU:HB3	1.86	0.56
1:CA:256:U:H2'	1:CA:257:G:C8	2.41	0.56
25:DA:1608:A:H1'	25:DA:1610:A:OP2	2.05	0.56
8:CF:43:LEU:HB3	8:CF:60:PHE:HB2	1.87	0.56
33:BJ:3:ASN:CG	33:BJ:4:LYS:H	2.09	0.56
25:BA:2410:G:H2'	25:BA:2411:A:C8	2.40	0.56
25:DA:1731:G:HO2'	25:DA:1732:A:H8	1.52	0.56
37:DQ:75:THR:HA	37:DQ:88:GLY:HA3	1.88	0.56
12:AJ:96:ILE:H	12:AJ:96:ILE:HD13	1.69	0.56
1:AA:435:C:H2'	1:AA:436:C:H6	1.71	0.56
25:DA:2893:G:H4'	25:DA:2894:G:H8	1.69	0.56
36:DP:57:THR:C	36:DP:59:LEU:H	2.09	0.56
36:BP:61:ARG:H	36:BP:61:ARG:HD2	1.70	0.56
25:BA:2415:G:H4'	36:BP:66:GLY:HA2	1.87	0.56
25:DA:2478:A:H3'	25:DA:2479:G:C8	2.36	0.56
29:BF:158:THR:HG21	29:BF:163:VAL:HB	1.88	0.56
25:BA:2061:G:H5''	25:BA:2503:A:C2	2.41	0.56
27:DD:157:ARG:NH2	25:DA:1817:G:H3'	2.21	0.56
40:BT:55:ASN:H	40:BT:59:THR:HB	1.69	0.56
25:BA:270(T):G:H5'	25:BA:270(T):G:H8	1.69	0.56
25:DA:651:G:C2'	25:DA:652:U:H5''	2.34	0.56
40:DT:118:ARG:HA	40:DT:121:ILE:HB	1.87	0.56
9:AG:115:ARG:O	9:AG:118:VAL:HG22	2.06	0.56
25:DA:2039:C:H2'	25:DA:2040:C:H6	1.71	0.56
2:CZ:56:C:H2'	2:CZ:57:A:C8	2.41	0.56
4:CB:28:PHE:HD2	4:CB:194:PRO:HD3	1.71	0.56
1:CA:7:G:H21	7:CE:121:LYS:CE	2.19	0.56
10:CH:120:THR:H	10:CH:123:GLU:HB2	1.70	0.56
25:BA:2893:G:H4'	25:BA:2894:G:H8	1.69	0.56
1:AA:7:G:H21	7:AE:121:LYS:CE	2.19	0.56
27:DD:231:HIS:CG	27:DD:232:PRO:HD2	2.41	0.56
48:D1:19:GLN:HG2	48:D1:41:ARG:HA	1.88	0.56
36:BP:16:ARG:NH1	36:BP:18:ARG:HG3	2.21	0.56
4:CB:154:LEU:HD13	4:CB:155:LEU:H	1.71	0.56
20:CR:74:ARG:HH21	20:CR:81:PHE:HA	1.71	0.56
15:CM:87:TYR:HE1	21:CS:76:PRO:HA	1.70	0.56
32:BI:113:ARG:HB2	32:BI:130:TYR:CZ	2.40	0.56
25:BA:2150:U:H2'	25:BA:2151:G:H8	1.70	0.56
25:BA:2822:G:H2'	25:BA:2823:A:H5''	1.88	0.56
36:DP:114:ILE:O	36:DP:114:ILE:HD12	2.06	0.56
25:DA:74:A:H4'	25:DA:75:G:O5'	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AK:57:THR:HG22	13:AK:59:TYR:H	1.71	0.56
25:BA:2410:G:H2'	25:BA:2411:A:H8	1.71	0.56
25:DA:1505:C:H2'	25:DA:1506:C:C6	2.41	0.56
25:BA:1270:C:H5''	25:BA:1271:G:O5'	2.06	0.56
25:DA:1014:U:H2'	25:DA:1015:G:C8	2.41	0.56
47:B0:27:GLU:HB2	47:B0:69:PHE:HD1	1.71	0.56
1:AA:1017:G:H2'	1:AA:1018:C:C6	2.40	0.56
31:BH:125:VAL:HG22	31:BH:131:VAL:HG22	1.88	0.56
25:BA:2194:G:H2'	25:BA:2195:C:H6	1.71	0.56
28:BE:51:PHE:HB3	28:BE:52:LEU:HD12	1.86	0.56
25:BA:251:A:H5''	36:BP:51:PHE:HE1	1.71	0.56
41:BU:62:ILE:HG23	41:BU:76:TYR:CE1	2.41	0.56
27:BD:94:LEU:HD11	27:BD:96:HIS:CE1	2.41	0.56
15:AM:14:ARG:NH1	15:AM:42:ALA:HA	2.20	0.56
29:DF:48:THR:HG21	25:DA:442:G:H1'	1.88	0.56
25:DA:401:A:H2'	25:DA:402:A:H8	1.69	0.56
25:BA:2406:U:N3	36:BP:72:PRO:HB2	2.20	0.56
25:BA:2599:G:H2'	25:BA:2600:A:H8	1.71	0.56
48:B1:82:LEU:O	48:B1:83:GLU:HB2	2.05	0.56
25:BA:1328:G:H2'	25:BA:1330:C:C5	2.40	0.56
27:DD:118:VAL:HG22	27:DD:119:ALA:H	1.69	0.56
1:CA:642:A:H2'	1:CA:643:C:C6	2.41	0.56
31:DH:58:GLU:O	31:DH:62:LYS:HG3	2.06	0.56
15:CM:23:TYR:CE1	15:CM:71:ARG:HB2	2.41	0.56
25:DA:193:U:H2'	25:DA:194:G:H8	1.70	0.56
27:BD:5:LYS:N	27:BD:5:LYS:HD2	2.21	0.56
37:DQ:124:LYS:HE2	37:DQ:124:LYS:HA	1.88	0.56
16:CN:24:CYS:HB3	16:CN:29:ARG:H	1.70	0.56
4:CB:131:PRO:O	4:CB:135:GLN:HG3	2.05	0.56
11:CI:10:ARG:HH21	11:CI:107:ARG:HB2	1.70	0.56
46:BZ:10:ARG:HH21	46:BZ:26:GLY:H	1.53	0.56
1:CA:1323:G:H4'	1:CA:136(B):C:N3	2.20	0.56
8:CF:15:ASP:OD1	8:CF:17:SER:HB2	2.06	0.56
30:BG:115:ARG:NH2	30:BG:136:ARG:H	2.04	0.56
26:BB:35:U:H2'	26:BB:36:C:C6	2.40	0.56
25:BA:721:C:H2'	25:BA:722:A:C8	2.41	0.56
36:BP:135:LEU:HD13	36:BP:135:LEU:O	2.06	0.56
40:DT:16:ARG:H	40:DT:79:HIS:CD2	2.23	0.56
25:BA:216:A:C8	25:BA:432:A:C6	2.94	0.56
25:BA:2379:G:H5'	39:BS:21:THR:HG23	1.88	0.56
48:D1:67:ILE:N	48:D1:68:PRO:HD2	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BW:78:GLU:OE2	43:BW:99:ARG:HD3	2.06	0.56
25:DA:2637:U:C4	25:DA:2638:G:C6	2.94	0.56
24:AX:114:GLY:O	25:BA:1913:A:C2	2.59	0.56
21:AS:69:HIS:HB3	21:AS:73:GLU:HG3	1.86	0.56
1:CA:366:C:O2'	1:CA:394:G:N2	2.38	0.56
28:BE:30:PRO:HD3	28:BE:180:ASN:ND2	2.20	0.56
6:AD:200:GLU:O	6:AD:204:ILE:HG13	2.06	0.56
37:BQ:83:MET:O	37:BQ:83:MET:HG3	2.06	0.56
25:BA:2359:C:H2'	25:BA:2360:A:O4'	2.06	0.56
1:AA:22:G:H2'	1:AA:23:C:C6	2.41	0.56
5:CC:50:ALA:HB2	5:CC:75:VAL:HB	1.88	0.56
34:DN:40:ASP:CG	34:DN:41:ALA:H	2.08	0.56
18:AP:20:VAL:HG23	18:AP:34:GLU:O	2.06	0.56
25:DA:2722:G:H2'	25:DA:2723:C:C6	2.41	0.56
45:DY:49:VAL:O	45:DY:50:ARG:HB2	2.05	0.56
25:DA:270(T):G:H8	25:DA:270(T):G:H5'	1.70	0.56
49:B2:41:ILE:HD11	49:B2:44:LEU:HD12	1.87	0.56
27:DD:183:ARG:HB2	27:DD:270:ILE:HG22	1.87	0.56
25:BA:960:A:H61	37:BQ:82:ARG:HH21	1.54	0.56
25:BA:1802:A:H2'	25:BA:1803:A:C8	2.40	0.56
34:DN:43:GLY:HA2	34:DN:84:ARG:HG3	1.86	0.56
6:CD:76:ARG:HD3	6:CD:207:TYR:CE2	2.41	0.56
25:DA:2359:C:H2'	25:DA:2360:A:O4'	2.06	0.56
24:AX:325:GLU:HG3	24:AX:326:GLY:H	1.70	0.56
1:AA:397:A:H5'	1:AA:398:C:OP1	2.05	0.56
1:CA:1216:G:H5''	16:CN:5:ALA:HB2	1.88	0.56
28:DE:98:PRO:HG3	28:DE:175:VAL:HG12	1.88	0.56
40:DT:20:PRO:HD2	40:DT:86:ILE:HG23	1.88	0.56
38:DR:3:HIS:CE1	25:DA:1654:A:OP2	2.59	0.56
25:DA:655:A:O2'	25:DA:656:G:H5'	2.06	0.56
14:AL:123:LYS:HG3	14:AL:124:PRO:HD2	1.88	0.56
6:CD:30:LYS:C	6:CD:32:ALA:H	2.09	0.56
48:B1:67:ILE:N	48:B1:68:PRO:HD2	2.21	0.56
1:CA:600:C:OP1	10:CH:97:VAL:HG12	2.05	0.56
25:DA:1126:A:H4'	25:DA:1127:A:H5''	1.87	0.56
25:DA:680:G:H2'	25:DA:681:G:C8	2.41	0.56
1:CA:522:C:H42	1:CA:528:C:H42	1.54	0.55
17:AO:63:ARG:HH21	17:AO:87:ILE:HG21	1.71	0.55
25:BA:1434:A:H2'	25:BA:1435:G:C8	2.41	0.55
25:BA:1478:G:O2'	25:BA:1558:A:H2	1.89	0.55
4:CB:51:LEU:HD23	4:CB:201:ILE:HD12	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DI:77:LEU:HG	32:DI:101:LEU:HD13	1.87	0.55
1:AA:1504:G:O2'	1:AA:1505:G:OP2	2.24	0.55
13:CK:52:GLY:H	13:CK:55:LYS:HZ1	1.53	0.55
1:CA:719:C:C2	20:CR:50:ILE:HG12	2.40	0.55
25:BA:1183:G:H2'	25:BA:1184:G:C8	2.37	0.55
30:DG:115:ARG:NH2	30:DG:136:ARG:H	2.04	0.55
25:BA:2134:A:H2	25:BA:2159:G:HO2'	1.54	0.55
1:AA:392:G:H2'	1:AA:393:A:C8	2.41	0.55
25:DA:782:A:H5'	25:DA:783:A:C2	2.41	0.55
4:AB:69:LEU:HB3	4:AB:162:ILE:HG22	1.88	0.55
25:BA:2113:U:H2'	25:BA:2114:A:H8	1.71	0.55
25:DA:1697:G:H3'	25:DA:1698:A:H5''	1.88	0.55
43:BW:46:PHE:O	43:BW:50:VAL:HG12	2.06	0.55
25:BA:2789:C:H1'	25:BA:2892:A:C2	2.41	0.55
21:CS:50:ALA:HB1	21:CS:57:HIS:HB3	1.88	0.55
5:AC:50:ALA:HB2	5:AC:75:VAL:HB	1.88	0.55
40:BT:20:PRO:HD2	40:BT:86:ILE:HG23	1.87	0.55
25:DA:2089:U:H2'	25:DA:2090:G:C8	2.41	0.55
25:BA:2089:U:H2'	25:BA:2090:G:C8	2.41	0.55
26:DB:64:C:H2'	26:DB:65:C:C6	2.41	0.55
27:DD:246:PRO:HD3	25:DA:1902:C:H5'	1.88	0.55
48:D1:11:ARG:HH11	48:D1:61:ARG:N	2.02	0.55
6:AD:108:LEU:HD23	6:AD:110:PHE:CE2	2.41	0.55
30:DG:86:MET:N	30:DG:87:PRO:CD	2.69	0.55
15:CM:3:ARG:HA	15:CM:9:ILE:HG12	1.86	0.55
36:DP:51:PHE:HE1	25:DA:251:A:H5''	1.72	0.55
20:AR:74:ARG:HH21	20:AR:81:PHE:HA	1.72	0.55
1:CA:1498:U:H1'	1:CA:1499:A:N7	2.21	0.55
29:DF:124:LEU:HB3	29:DF:193:VAL:HG22	1.88	0.55
31:DH:143:GLN:NE2	25:DA:2744:G:H21	2.04	0.55
25:DA:216:A:C8	25:DA:432:A:C6	2.94	0.55
10:CH:66:GLY:HA3	10:CH:77:GLU:HB3	1.88	0.55
25:BA:1270:C:H5''	25:BA:1271:G:C5'	2.37	0.55
25:DA:657:U:H2'	25:DA:658:C:C6	2.42	0.55
25:DA:528:A:C2	25:DA:2042:A:H2'	2.42	0.55
25:BA:859:G:N2	25:BA:916:G:H2'	2.22	0.55
6:CD:94:LEU:HA	6:CD:97:LEU:HD12	1.87	0.55
4:AB:58:ILE:HG22	4:AB:221:LEU:HD12	1.87	0.55
37:BQ:71:ASP:O	37:BQ:73:PRO:HD3	2.06	0.55
52:D5:9:LYS:HE2	25:DA:2018:G:OP1	2.05	0.55
8:AF:23:LYS:O	8:AF:27:GLN:HG2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BQ:138:ASP:O	37:BQ:139:GLU:HB2	2.07	0.55
32:DI:58:LEU:HD23	32:DI:61:ARG:HD2	1.86	0.55
17:AO:44:LYS:O	17:AO:47:LYS:HE3	2.06	0.55
25:BA:332:A:C6	25:BA:335:C:C2	2.95	0.55
1:AA:902:G:H2'	1:AA:903:G:H8	1.72	0.55
42:BV:22:VAL:CG1	42:BV:23:GLU:H	2.20	0.55
30:DG:83:ARG:HG3	30:DG:84:LYS:N	2.15	0.55
25:DA:682:G:H2'	25:DA:683:C:C6	2.41	0.55
25:DA:1478:G:O2'	25:DA:1558:A:H2	1.90	0.55
39:DS:18:ILE:HA	39:DS:21:THR:OG1	2.06	0.55
20:CR:66:LEU:O	20:CR:70:ILE:HG12	2.06	0.55
40:DT:55:ASN:H	40:DT:59:THR:HB	1.70	0.55
15:CM:91:ARG:HH11	21:CS:81:ARG:HH22	1.54	0.55
25:DA:2822:G:H2'	25:DA:2823:A:H5''	1.87	0.55
24:CX:307:PHE:H	24:CX:308:PRO:HD2	1.71	0.55
36:BP:71:VAL:HB	36:BP:72:PRO:HD3	1.88	0.55
27:BD:183:ARG:HB2	27:BD:270:ILE:HG22	1.88	0.55
29:DF:180:GLY:HA2	25:DA:616:A:N3	2.21	0.55
27:BD:118:VAL:HG22	27:BD:119:ALA:N	2.20	0.55
25:BA:116:C:H2'	25:BA:117:G:C8	2.42	0.55
37:DQ:82:ARG:HH21	25:DA:960:A:H61	1.54	0.55
13:AK:99:GLN:HE22	13:AK:105:VAL:HG21	1.72	0.55
25:DA:228:A:H5'	25:DA:229:A:OP2	2.06	0.55
41:DU:66:ASN:O	41:DU:70:ARG:HB2	2.06	0.55
31:BH:58:GLU:O	31:BH:62:LYS:HG3	2.06	0.55
1:AA:366:C:O2'	1:AA:394:G:N2	2.39	0.55
25:DA:2194:G:H2'	25:DA:2195:C:H6	1.71	0.55
33:DJ:66:LEU:HD23	33:DJ:66:LEU:O	2.06	0.55
24:CX:122:LEU:O	24:CX:125:ARG:HG2	2.06	0.55
25:DA:1270:C:H5''	25:DA:1271:G:O5'	2.07	0.55
4:AB:131:PRO:O	4:AB:135:GLN:HG3	2.06	0.55
8:CF:23:LYS:O	8:CF:27:GLN:HG2	2.06	0.55
25:BA:153:C:OP1	48:B1:92:LYS:HE2	2.06	0.55
45:DY:13:VAL:HG11	45:DY:72:VAL:HB	1.89	0.55
25:DA:1190:G:H8	25:DA:1190:G:H5'	1.70	0.55
25:DA:2033:A:H4'	25:DA:2034:U:OP1	2.06	0.55
40:DT:25:GLY:H	40:DT:49:VAL:HG13	1.71	0.55
32:BI:77:LEU:HG	32:BI:101:LEU:HD13	1.88	0.55
29:DF:158:THR:HG21	29:DF:163:VAL:HB	1.88	0.55
20:AR:66:LEU:O	20:AR:70:ILE:HG12	2.06	0.55
25:BA:2285:C:H5	53:B6:27:LYS:HZ1	1.52	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:401:A:H2'	25:BA:402:A:H8	1.69	0.55
25:BA:616:A:N3	29:BF:180:GLY:HA2	2.21	0.55
28:DE:171:GLU:HG2	28:DE:185:LYS:HG2	1.88	0.55
4:CB:69:LEU:HB3	4:CB:162:ILE:HG22	1.88	0.55
25:BA:1448:G:H21	25:BA:1529:A:H2	1.54	0.55
25:DA:2784:C:H2'	25:DA:2785:C:C6	2.42	0.55
25:DA:2185:C:H2'	25:DA:2186:G:C8	2.41	0.55
25:DA:332:A:C6	25:DA:335:C:C2	2.94	0.55
25:BA:2301:C:H2'	25:BA:2302:G:H8	1.71	0.55
25:DA:2282:G:H5''	25:DA:2283:C:O4'	2.07	0.55
25:BA:380:U:H1'	48:B1:20:ARG:NH1	2.21	0.55
25:BA:2039:C:H2'	25:BA:2040:C:H6	1.72	0.55
27:BD:133:LEU:HD13	27:BD:173:VAL:HG13	1.87	0.55
47:B0:53:MET:HA	47:B0:58:THR:O	2.06	0.55
46:BZ:102:LEU:HD23	46:BZ:137:ILE:HB	1.87	0.55
24:AX:184:PRO:HG2	24:AX:187:GLU:HG2	1.88	0.55
25:BA:1427:A:H4'	25:BA:1428:C:O5'	2.06	0.55
9:AG:100:ALA:O	9:AG:104:LEU:HD23	2.06	0.55
28:DE:119:ARG:HD2	28:DE:120:TRP:NE1	2.21	0.55
25:BA:1841:U:H2'	25:BA:1842:G:H8	1.71	0.55
25:BA:2722:G:H5''	25:BA:2820:A:C2	2.37	0.55
36:BP:23:PRO:HD2	36:BP:33:ARG:NH2	2.20	0.55
36:DP:39:LYS:CD	36:DP:40:SER:H	2.18	0.55
25:DA:1434:A:H2'	25:DA:1435:G:H8	1.71	0.55
21:CS:18:LYS:O	21:CS:22:LEU:HD23	2.07	0.55
25:DA:1201:C:H2'	25:DA:1202:C:C6	2.42	0.55
9:CG:132:GLY:H	9:CG:135:VAL:HB	1.71	0.55
1:AA:1112:C:O2	5:AC:179:ARG:HG2	2.06	0.55
1:CA:1323:G:H4'	1:CA:136(B):C:C2	2.42	0.55
25:BA:2645:G:H3'	25:BA:2646:C:H5'	1.87	0.55
53:B6:15:GLU:OE2	53:B6:18:ARG:HD2	2.06	0.55
36:DP:18:ARG:CZ	36:DP:18:ARG:HB3	2.36	0.55
12:CJ:78:ASN:O	12:CJ:82:ILE:HG12	2.07	0.55
9:AG:38:LEU:O	9:AG:42:ILE:HG13	2.07	0.55
35:BO:17:ARG:HB2	35:BO:45:GLU:HG3	1.89	0.55
29:BF:28:ILE:O	29:BF:30:PRO:HD3	2.07	0.55
1:AA:1294:G:H2'	1:AA:1295:G:C8	2.42	0.55
1:CA:358:U:H2'	1:CA:359:U:C6	2.42	0.55
37:BQ:75:THR:HA	37:BQ:88:GLY:HA3	1.88	0.55
35:DO:28:SER:HA	25:DA:2563:U:H4'	1.89	0.55
43:DW:78:GLU:OE2	43:DW:99:ARG:HD3	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1216:G:H5''	16:AN:5:ALA:HB2	1.88	0.55
37:DQ:71:ASP:O	37:DQ:73:PRO:HD3	2.06	0.55
53:B6:36:LEU:HD23	53:B6:36:LEU:H	1.71	0.55
25:BA:2637:U:C4	25:BA:2638:G:C6	2.95	0.55
2:AY:50:U:H2'	2:AY:51:C:C6	2.42	0.55
28:BE:119:ARG:HD2	28:BE:120:TRP:CD1	2.41	0.55
25:BA:996:A:H2'	25:BA:997:G:H8	1.71	0.55
44:BX:37:THR:O	44:BX:40:LYS:HB3	2.06	0.55
1:AA:1287:A:H2'	1:AA:1288:A:C8	2.41	0.55
25:DA:1578:U:C2'	25:DA:1579:A:H5''	2.32	0.55
25:DA:1074:G:O2'	25:DA:1075:C:H5'	2.07	0.55
24:CX:222:MET:C	24:CX:236:ASP:HB2	2.27	0.55
31:DH:144:VAL:O	31:DH:148:ILE:HG12	2.06	0.55
27:DD:238:GLY:O	27:DD:239:ARG:C	2.45	0.55
1:AA:1323:G:H2'	1:AA:1324:A:C8	2.40	0.55
1:CA:1355:G:H2'	1:CA:1356:G:H8	1.71	0.55
1:CA:1356:G:H2'	1:CA:1357:A:H8	1.72	0.55
32:DI:114:LEU:HD21	32:DI:128:LEU:HD13	1.88	0.55
41:DU:58:ARG:O	41:DU:62:ILE:HG12	2.07	0.55
26:DB:8:U:H2'	26:DB:9:G:H8	1.72	0.55
25:BA:1786:A:H3'	25:BA:1787:A:C8	2.39	0.55
36:DP:16:ARG:NH1	36:DP:18:ARG:HG3	2.22	0.55
34:DN:36:TRP:O	34:DN:158:PRO:HG2	2.06	0.55
1:AA:716:A:N3	13:AK:118:GLY:HA2	2.22	0.55
25:DA:116:C:H2'	25:DA:117:G:C8	2.42	0.55
1:AA:677:U:H2'	1:AA:678:U:H6	1.71	0.55
46:DZ:167:PRO:O	46:DZ:168:GLU:HB2	2.05	0.55
1:CA:512:U:H2'	1:CA:513:C:H6	1.71	0.55
1:CA:1157:A:H4'	1:CA:1158:C:O5'	2.07	0.55
25:BA:1090:U:H2'	25:BA:1091:G:C8	2.42	0.55
28:DE:104:VAL:HG22	28:DE:198:VAL:HG22	1.89	0.55
15:AM:23:TYR:CE1	15:AM:71:ARG:HB2	2.41	0.55
1:CA:1294:G:H2'	1:CA:1295:G:C8	2.42	0.55
10:AH:19:VAL:HG23	10:AH:21:LYS:HG2	1.88	0.55
25:DA:1544:C:H3'	25:DA:1545:A:H5''	1.88	0.55
25:BA:1544:C:H3'	25:BA:1545:A:H5''	1.88	0.55
25:BA:676:A:H8	25:BA:2069:G:H21	1.54	0.55
25:BA:2777:G:C5'	25:BA:2778:A:H5'	2.34	0.55
36:DP:61:ARG:HD2	36:DP:61:ARG:H	1.71	0.55
46:DZ:70:LEU:HD21	46:DZ:91:LEU:HG	1.87	0.55
1:AA:736:C:H2'	1:AA:737:A:H8	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:558:G:H5'	34:BN:135:LEU:HD13	1.87	0.55
15:AM:91:ARG:HH11	21:AS:81:ARG:HH22	1.53	0.55
19:AQ:17:LYS:HE3	19:AQ:47:PRO:HA	1.88	0.55
25:BA:2735:G:H2'	25:BA:2736:G:C8	2.40	0.55
34:DN:32:VAL:HG11	34:DN:62:ARG:NH1	2.21	0.55
1:AA:121:C:N4	1:AA:237:C:H41	2.04	0.55
1:AA:464:G:O6	1:AA:466:G:H5''	2.06	0.55
45:BY:35:TYR:CD2	45:BY:69:ALA:HB3	2.42	0.55
1:AA:1472:U:H2'	1:AA:1473:A:C8	2.42	0.55
21:AS:50:ALA:HB1	21:AS:57:HIS:HB3	1.88	0.55
25:BA:528:A:C2	25:BA:2042:A:H2'	2.42	0.55
1:CA:464:G:O6	1:CA:466:G:H5''	2.06	0.55
1:CA:1127:G:N2	1:CA:1147:C:H42	2.04	0.55
47:D0:27:GLU:HB2	47:D0:69:PHE:HD1	1.71	0.55
31:BH:15:VAL:HG11	31:BH:76:VAL:HG13	1.87	0.55
25:DA:2301:C:H2'	25:DA:2302:G:H8	1.70	0.55
6:AD:63:LYS:O	6:AD:67:ILE:HG13	2.06	0.55
42:DV:99:ILE:HD13	42:DV:99:ILE:H	1.71	0.55
31:DH:125:VAL:HG22	31:DH:131:VAL:HG22	1.88	0.55
25:BA:228:A:H5'	25:BA:229:A:OP2	2.07	0.55
1:AA:262:A:C6	1:AA:263:A:C6	2.94	0.55
33:DJ:3:ASN:CG	33:DJ:4:LYS:H	2.09	0.55
25:BA:1074:G:O2'	25:BA:1075:C:H5'	2.07	0.55
25:DA:1190:G:H8	25:DA:1190:G:C5'	2.20	0.55
49:B2:63:VAL:HG13	49:B2:67:LYS:HE2	1.89	0.55
28:DE:67:PHE:CE2	28:DE:75:VAL:HG22	2.42	0.55
46:BZ:10:ARG:HB3	46:BZ:36:LYS:HB3	1.89	0.55
1:AA:939:G:H5''	9:AG:102:ARG:NH1	2.21	0.55
1:AA:1323:G:H4'	1:AA:136(B):C:C2	2.42	0.55
41:BU:62:ILE:HD13	41:BU:65:ILE:HD12	1.89	0.55
13:CK:39:PRO:O	13:CK:40:ILE:HD13	2.07	0.55
55:D8:18:ALA:HB3	25:DA:651:G:H5''	1.88	0.55
36:DP:72:PRO:HB2	25:DA:2406:U:N3	2.21	0.55
25:DA:388:G:H5'	25:DA:389:G:OP2	2.06	0.55
2:CZ:39:C:H2'	2:CZ:40:C:H6	1.72	0.55
25:BA:2744:G:H21	31:BH:143:GLN:NE2	2.05	0.55
1:CA:1281:U:H5'	1:CA:1282:C:H5	1.72	0.55
25:DA:1328:G:H8	25:DA:1328:G:O5'	1.90	0.55
34:DN:58:ARG:HH21	34:DN:131:PRO:HG3	1.72	0.55
1:CA:255:G:H2'	1:CA:256:U:C6	2.42	0.55
35:BO:79:PHE:HD2	40:BT:72:VAL:HG22	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:536:A:H2'	25:DA:537:C:C6	2.42	0.55
50:D3:29:ARG:HE	50:D3:29:ARG:HA	1.72	0.55
29:BF:9:ILE:H	29:BF:9:ILE:HD13	1.72	0.55
13:CK:119:CYS:O	13:CK:121:PRO:HD3	2.07	0.55
1:AA:642:A:H2'	1:AA:643:C:C6	2.42	0.55
4:CB:58:ILE:HG22	4:CB:221:LEU:HD12	1.88	0.55
11:AI:16:ARG:O	11:AI:63:ILE:HG23	2.07	0.55
25:DA:996:A:H2'	25:DA:997:G:H8	1.71	0.55
25:BA:2478:A:H3'	25:BA:2479:G:C8	2.34	0.55
5:CC:35:GLU:O	5:CC:39:ILE:HG13	2.07	0.55
36:DP:21:ARG:O	36:DP:23:PRO:HD3	2.07	0.55
4:AB:205:ASP:O	4:AB:211:ILE:HD11	2.07	0.55
1:CA:939:G:H5''	9:CG:102:ARG:NH1	2.22	0.55
27:DD:94:LEU:HD11	27:DD:96:HIS:CE1	2.41	0.55
4:CB:178:ARG:HD2	10:CH:71:GLY:O	2.06	0.55
37:BQ:38:GLU:O	37:BQ:127:ILE:HD13	2.07	0.55
25:BA:1858:G:HO2'	25:BA:1859:A:H8	1.55	0.55
53:B6:30:THR:HG22	53:B6:31:PRO:HD2	1.89	0.55
25:BA:1568:G:H4'	27:BD:59:LYS:HB3	1.88	0.55
2:AZ:39:C:H2'	2:AZ:40:C:H6	1.72	0.55
25:DA:534:U:H3	25:DA:559:G:H1	1.53	0.55
34:BN:32:VAL:HG11	34:BN:62:ARG:NH1	2.21	0.55
25:DA:2515:C:H2'	25:DA:2516:G:H8	1.72	0.55
39:DS:99:LYS:O	39:DS:103:GLU:HB2	2.07	0.55
1:CA:1097:C:H2'	1:CA:1098:C:H6	1.72	0.55
1:CA:512:U:H2'	1:CA:513:C:C6	2.42	0.55
26:DB:44:G:H1'	26:DB:47:C:H42	1.72	0.55
7:AE:25:ARG:HD2	7:AE:25:ARG:H	1.72	0.55
10:CH:87:SER:HA	10:CH:93:VAL:HG23	1.89	0.55
25:DA:2037:G:H2'	25:DA:2038:G:C8	2.42	0.55
6:AD:94:LEU:HA	6:AD:97:LEU:HD12	1.89	0.55
25:BA:321:G:C2	25:BA:341:G:H4'	2.42	0.55
48:B1:46:LEU:HD11	48:B1:61:ARG:HG3	1.89	0.55
30:BG:86:MET:N	30:BG:87:PRO:CD	2.70	0.55
1:CA:1220:G:H2'	1:CA:1221:G:H8	1.72	0.55
25:BA:140:A:C6	25:BA:141(A):A:N6	2.75	0.55
24:AX:223:ARG:HD3	24:AX:236:ASP:HB3	1.89	0.55
25:BA:682:G:H2'	25:BA:683:C:C6	2.42	0.55
25:DA:221:A:H8	25:DA:221:A:H5''	1.72	0.55
54:D7:5:TRP:HE1	54:D7:7:PRO:HG3	1.69	0.55
25:BA:270(G):U:H3	25:BA:270(U):G:H1	1.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:DE:141:ILE:HD11	25:DA:2052:G:C8	2.42	0.55
1:CA:1060:C:H5'	12:CJ:51:ARG:HB3	1.88	0.55
29:BF:124:LEU:HB3	29:BF:193:VAL:HG22	1.88	0.55
25:DA:970:C:H2'	25:DA:971:C:C6	2.42	0.55
1:AA:452:A:H2'	1:AA:453:A:H8	1.72	0.55
28:DE:168:MET:O	25:DA:2730:C:H4'	2.07	0.55
25:DA:539:G:H2'	25:DA:540:G:C8	2.42	0.55
25:BA:539:G:H2'	25:BA:540:G:C8	2.43	0.55
13:CK:99:GLN:HE22	13:CK:105:VAL:HG21	1.72	0.55
4:AB:28:PHE:HD2	4:AB:194:PRO:HD3	1.71	0.55
25:DA:1977:A:H2'	25:DA:1978:A:O4'	2.07	0.55
2:CY:50:U:H2'	2:CY:51:C:C6	2.42	0.55
14:CL:5:THR:HG23	14:CL:8:GLN:HE21	1.71	0.55
25:DA:859:G:N2	25:DA:916:G:H2'	2.21	0.55
13:AK:119:CYS:O	13:AK:121:PRO:HD3	2.07	0.55
29:DF:14:PRO:HG3	29:DF:128:ALA:HB2	1.88	0.55
48:D1:45:ASN:HD22	48:D1:46:LEU:N	2.05	0.54
25:BA:1977:A:H2'	25:BA:1978:A:O4'	2.08	0.54
39:BS:98:VAL:HA	39:BS:101:LEU:HD23	1.87	0.54
36:BP:21:ARG:O	36:BP:23:PRO:HD3	2.07	0.54
25:DA:941:A:H2'	25:DA:942:G:C8	2.42	0.54
21:AS:18:LYS:O	21:AS:22:LEU:HD23	2.06	0.54
1:AA:1323:G:H4'	1:AA:136(B):C:N3	2.22	0.54
13:AK:39:PRO:O	13:AK:40:ILE:HD13	2.07	0.54
29:BF:160:ASN:OD1	29:BF:163:VAL:HG23	2.07	0.54
25:BA:27:G:H22	25:BA:512:G:H2'	1.72	0.54
25:BA:1678:G:N2	25:BA:1989:G:H22	2.05	0.54
21:CS:40:ILE:HG12	21:CS:71:LEU:HD23	1.89	0.54
25:BA:2730:C:H4'	28:BE:168:MET:O	2.08	0.54
4:CB:17:PHE:HB2	4:CB:42:ILE:CG2	2.36	0.54
1:AA:22:G:H4'	1:AA:885:G:C8	2.42	0.54
7:CE:57:LYS:HE2	7:CE:61:TYR:HE2	1.72	0.54
25:DA:2224:G:H4'	25:DA:2226:C:C2	2.42	0.54
25:BA:1620:G:O2'	54:B7:2:LYS:HG2	2.06	0.54
1:AA:1157:A:H4'	1:AA:1158:C:O5'	2.07	0.54
25:DA:1802:A:H2'	25:DA:1803:A:C8	2.42	0.54
47:D0:53:MET:HA	47:D0:58:THR:O	2.07	0.54
7:AE:96:PRO:HA	7:AE:117:ASP:OD2	2.07	0.54
25:DA:1790:C:H2'	25:DA:1791:A:C5	2.42	0.54
6:AD:108:LEU:HD23	6:AD:110:PHE:HE2	1.72	0.54
1:CA:1287:A:H2'	1:CA:1288:A:C8	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1112:C:O2	5:CC:179:ARG:HG2	2.06	0.54
9:AG:132:GLY:H	9:AG:135:VAL:HB	1.71	0.54
25:BA:1153:C:H5'	41:BU:76:TYR:HE2	1.73	0.54
27:BD:25:THR:HG21	27:BD:81:ALA:HA	1.90	0.54
48:D1:86:SER:HA	48:D1:89:GLU:HG3	1.88	0.54
24:AX:115:THR:H	24:AX:196:THR:HB	1.72	0.54
53:D6:30:THR:HG22	53:D6:31:PRO:HD2	1.89	0.54
25:BA:651:G:H5''	55:B8:18:ALA:HB3	1.88	0.54
25:DA:2150:U:H2'	25:DA:2151:G:H8	1.71	0.54
25:BA:2401:U:O2'	25:BA:2402:C:H5''	2.07	0.54
34:DN:53:ILE:O	34:DN:57:LEU:HB2	2.08	0.54
1:AA:694:A:OP1	13:AK:53:SER:HB3	2.07	0.54
39:BS:18:ILE:HA	39:BS:21:THR:OG1	2.06	0.54
25:BA:2039:C:O2'	25:BA:2040:C:H5'	2.08	0.54
5:CC:77:ILE:C	5:CC:83:ARG:HB3	2.27	0.54
25:DA:321:G:C2	25:DA:341:G:H4'	2.42	0.54
1:CA:1258:G:H2'	1:CA:1259:C:H6	1.72	0.54
25:DA:1427:A:H4'	25:DA:1428:C:O5'	2.07	0.54
40:DT:96:ARG:HG3	40:DT:97:ALA:H	1.72	0.54
1:AA:491:G:H2'	1:AA:492:G:H8	1.72	0.54
25:BA:2784:C:H2'	25:BA:2785:C:C6	2.42	0.54
35:DO:79:PHE:HD2	40:DT:72:VAL:HG22	1.71	0.54
1:CA:1472:U:H2'	1:CA:1473:A:C8	2.41	0.54
26:BB:64:C:H2'	26:BB:65:C:C6	2.41	0.54
37:DQ:83:MET:HG3	37:DQ:83:MET:O	2.07	0.54
8:AF:43:LEU:HB3	8:AF:60:PHE:HB2	1.87	0.54
1:CA:1054:C:O2'	1:CA:1055:A:H5''	2.07	0.54
6:CD:63:LYS:O	6:CD:67:ILE:HG13	2.06	0.54
28:DE:119:ARG:HD2	28:DE:120:TRP:CD1	2.43	0.54
25:BA:941:A:H2'	25:BA:942:G:C8	2.43	0.54
4:CB:168:THR:HG1	4:CB:192:SER:HA	1.72	0.54
40:BT:24:PRO:HA	40:BT:49:VAL:HG13	1.90	0.54
1:AA:1498:U:H1'	1:AA:1499:A:N7	2.22	0.54
4:CB:178:ARG:HG3	10:CH:72:PRO:HA	1.89	0.54
25:BA:1952:A:C6	25:BA:1953:A:C6	2.95	0.54
25:DA:1678:G:N2	25:DA:1989:G:H22	2.05	0.54
30:DG:47:LYS:HG3	30:DG:82:LEU:CD2	2.38	0.54
38:BR:87:TYR:OH	38:BR:116:LEU:HB3	2.06	0.54
10:AH:66:GLY:HA3	10:AH:77:GLU:HB3	1.88	0.54
53:D6:16:CYS:SG	53:D6:48:VAL:HG23	2.47	0.54
31:DH:15:VAL:HG11	31:DH:76:VAL:HG13	1.87	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:999:U:H2'	1:CA:1000:A:C8	2.41	0.54
1:CA:1095:U:H2'	1:CA:1096:C:C6	2.41	0.54
25:DA:476:G:N2	25:DA:478:A:H3'	2.22	0.54
25:DA:1187:G:HO2'	25:DA:1188:U:H6	1.53	0.54
28:BE:98:PRO:HG3	28:BE:175:VAL:HG12	1.89	0.54
29:DF:93:LYS:HB3	29:DF:94:PRO:HD2	1.89	0.54
25:DA:1292:U:H2'	25:DA:1293:C:C6	2.42	0.54
5:AC:107:GLN:CD	5:AC:107:GLN:H	2.09	0.54
1:AA:1258:G:H2'	1:AA:1259:C:H6	1.73	0.54
25:BA:1510:A:H2'	25:BA:1511:A:C8	2.43	0.54
29:DF:67:GLN:HG3	29:DF:67:GLN:O	2.07	0.54
25:DA:140:A:C6	25:DA:141(A):A:N6	2.76	0.54
24:AX:222:MET:C	24:AX:236:ASP:HB2	2.28	0.54
27:BD:238:GLY:O	27:BD:239:ARG:C	2.45	0.54
48:D1:73:LEU:HD21	48:D1:94:LEU:HD21	1.89	0.54
25:BA:518:G:H2'	25:BA:519:U:C6	2.42	0.54
8:AF:72:VAL:HG13	8:AF:73:ASN:N	2.22	0.54
1:AA:719:C:C2	20:AR:50:ILE:HG12	2.42	0.54
12:CJ:30:SER:HB2	12:CJ:80:LYS:HG3	1.88	0.54
41:BU:18:LEU:HD21	41:BU:22:LYS:HE2	1.90	0.54
38:DR:87:TYR:OH	38:DR:116:LEU:HB3	2.07	0.54
39:BS:26:LEU:HG	39:BS:39:ILE:HD13	1.89	0.54
25:DA:1270:C:H5''	25:DA:1271:G:C5'	2.38	0.54
25:DA:1510:A:H2'	25:DA:1511:A:C8	2.42	0.54
1:AA:926:G:H22	3:AV:15:A:H3'	1.72	0.54
9:CG:100:ALA:O	9:CG:104:LEU:HD23	2.07	0.54
25:BA:1014:U:H2'	25:BA:1015:G:C8	2.42	0.54
28:BE:19:ARG:HG3	28:BE:20:ALA:N	2.22	0.54
25:BA:1138:G:H2'	25:BA:1139:G:O4'	2.07	0.54
53:D6:36:LEU:HD23	53:D6:36:LEU:H	1.70	0.54
28:BE:104:VAL:HG22	28:BE:198:VAL:HG22	1.89	0.54
1:AA:357:G:H2'	1:AA:358:U:H5''	1.88	0.54
25:DA:218:A:H2'	25:DA:219:G:O4'	2.07	0.54
27:BD:126:GLN:HG2	27:BD:127:VAL:H	1.73	0.54
28:BE:116:VAL:HG11	28:BE:138:PRO:HD3	1.89	0.54
25:BA:996:A:H4'	41:BU:92:ARG:CZ	2.38	0.54
4:AB:70:PHE:O	4:AB:71:VAL:HG13	2.08	0.54
24:CX:97:LEU:HD13	24:CX:102:MET:SD	2.48	0.54
25:BA:1190:G:C5'	25:BA:1190:G:H8	2.21	0.54
25:DA:1557:C:H5''	25:DA:1558:A:OP2	2.06	0.54
44:DX:62:LYS:O	44:DX:63:LYS:HD3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:DD:239:ARG:HB2	25:DA:2591:C:P	2.48	0.54
25:DA:27:G:H22	25:DA:512:G:H2'	1.73	0.54
29:BF:160:ASN:ND2	29:BF:162:LEU:H	2.05	0.54
24:AX:5:LEU:HD13	24:AX:52:ARG:HE	1.71	0.54
1:AA:1054:C:O2'	1:AA:1055:A:H5''	2.08	0.54
14:CL:82:VAL:HG22	14:CL:83:LEU:N	2.23	0.54
24:AX:307:PHE:H	24:AX:308:PRO:HD2	1.72	0.54
25:BA:2515:C:H2'	25:BA:2516:G:H8	1.73	0.54
1:CA:694:A:O2'	2:CZ:38:A:H1'	2.08	0.54
1:AA:1281:U:H5'	1:AA:1282:C:H5	1.72	0.54
30:BG:55:LYS:HG3	30:BG:59:GLU:OE2	2.06	0.54
25:BA:915:C:H2'	25:BA:916:G:C8	2.43	0.54
1:CA:357:G:H2'	1:CA:358:U:H5''	1.90	0.54
25:BA:807:U:H2'	25:BA:808:G:H8	1.73	0.54
42:BV:24:LYS:HA	42:BV:92:THR:HG23	1.90	0.54
25:DA:2689:U:H4'	25:DA:2690:C:H6	1.71	0.54
1:CA:22:G:H2'	1:CA:23:C:C6	2.42	0.54
1:AA:1106:G:H5''	5:AC:172:ARG:HG2	1.90	0.54
25:BA:1654:A:OP2	38:BR:3:HIS:CE1	2.60	0.54
10:AH:87:SER:HA	10:AH:93:VAL:HG23	1.90	0.54
26:BB:44:G:H1'	26:BB:47:C:H42	1.73	0.54
1:CA:1106:G:H5''	5:CC:172:ARG:HG2	1.89	0.54
25:DA:455:C:N3	25:DA:472:A:H2'	2.22	0.54
37:BQ:140:ALA:HB3	46:BZ:53:ILE:HD13	1.90	0.54
5:CC:107:GLN:H	5:CC:107:GLN:CD	2.10	0.54
37:DQ:138:ASP:O	37:DQ:139:GLU:HB2	2.07	0.54
25:BA:2185:C:H2'	25:BA:2186:G:C8	2.42	0.54
1:AA:376:G:H5''	18:AP:5:ARG:HB2	1.89	0.54
49:D2:16:LEU:HD23	49:D2:20:GLU:OE2	2.07	0.54
41:DU:92:ARG:HG2	42:DV:11:GLN:CD	2.28	0.54
5:AC:35:GLU:O	5:AC:39:ILE:HG13	2.07	0.54
28:BE:67:PHE:CE2	28:BE:75:VAL:HG22	2.43	0.54
45:DY:31:LEU:N	45:DY:31:LEU:HD23	2.20	0.54
7:AE:16:THR:HG23	7:AE:27:ARG:O	2.08	0.54
39:DS:26:LEU:HG	39:DS:39:ILE:HD13	1.90	0.54
21:AS:40:ILE:HG21	21:AS:62:ILE:HD11	1.89	0.54
25:BA:956:G:N2	25:BA:959:A:H3'	2.23	0.54
25:DA:721:C:H2'	25:DA:722:A:C8	2.42	0.54
39:BS:26:LEU:HG	39:BS:39:ILE:CD1	2.38	0.54
27:BD:80:ALA:HA	27:BD:113:VAL:HG13	1.89	0.54
24:AX:122:LEU:O	24:AX:125:ARG:HG2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CH:19:VAL:HG23	10:CH:21:LYS:HG2	1.89	0.54
25:BA:2563:U:H4'	35:BO:28:SER:HA	1.89	0.54
9:CG:23:VAL:HG13	9:CG:43:PHE:CE2	2.43	0.54
1:AA:999:U:H2'	1:AA:1000:A:C8	2.42	0.54
1:AA:755:G:OP2	17:AO:65:ARG:HG3	2.08	0.54
25:DA:527:C:C4	25:DA:2779:U:H2'	2.42	0.54
25:BA:2033:A:H4'	25:BA:2034:U:OP1	2.07	0.54
25:BA:476:G:N2	25:BA:478:A:H3'	2.23	0.54
25:DA:36:G:H4'	25:DA:451:C:C2	2.43	0.54
25:DA:375:C:H2'	25:DA:376:C:H6	1.73	0.54
9:AG:23:VAL:HG13	9:AG:43:PHE:CE2	2.43	0.54
25:BA:2619:C:H5''	28:BE:152:LYS:HG2	1.90	0.54
40:BT:96:ARG:HG3	40:BT:97:ALA:H	1.72	0.54
25:DA:863:A:H2'	25:DA:864:G:C8	2.43	0.54
49:D2:16:LEU:H	49:D2:20:GLU:HG3	1.73	0.54
6:CD:108:LEU:HD23	6:CD:110:PHE:CE2	2.43	0.54
25:BA:448:U:H1'	29:BF:84:VAL:CG2	2.38	0.54
25:BA:1190:G:H5'	25:BA:1190:G:H8	1.73	0.54
36:BP:18:ARG:CZ	36:BP:18:ARG:HB3	2.36	0.54
1:CA:1352:C:H2'	1:CA:1353:G:C8	2.43	0.54
25:DA:518:G:H2'	25:DA:519:U:C6	2.43	0.54
5:AC:14:ILE:HG21	5:AC:178:LEU:HD12	1.89	0.54
26:BB:8:U:H2'	26:BB:9:G:H8	1.72	0.54
25:DA:27:G:O2'	25:DA:28:A:H8	1.90	0.54
49:D2:41:ILE:HD11	49:D2:44:LEU:HD12	1.88	0.54
24:CX:58:LEU:O	24:CX:62:GLU:HG3	2.08	0.54
48:B1:27:GLU:HB2	48:B1:33:LYS:HA	1.90	0.54
25:BA:826:U:H2'	25:BA:828:U:O4'	2.08	0.54
52:D5:3:LYS:O	52:D5:6:VAL:HG23	2.08	0.54
30:BG:47:LYS:HG3	30:BG:82:LEU:CD2	2.38	0.54
30:DG:55:LYS:HG3	30:DG:59:GLU:OE2	2.08	0.54
2:CZ:27:U:H2'	2:CZ:28:C:C6	2.43	0.54
7:CE:96:PRO:HA	7:CE:117:ASP:OD2	2.08	0.54
29:BF:14:PRO:HG3	29:BF:128:ALA:HB2	1.89	0.54
25:DA:428:A:H8	25:DA:428:A:O5'	1.90	0.54
28:DE:116:VAL:HG11	28:DE:138:PRO:HD3	1.89	0.54
25:BA:2224:G:H4'	25:BA:2226:C:C2	2.43	0.54
25:BA:576:U:H2'	25:BA:577:G:C8	2.43	0.54
25:BA:765:G:H2'	25:BA:766:C:C6	2.43	0.54
1:CA:1419:G:C6	1:CA:1482:G:C2	2.95	0.54
1:AA:1419:G:C6	1:AA:1482:G:C2	2.96	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DQ:140:ALA:HB3	46:DZ:53:ILE:HD13	1.89	0.54
37:DQ:140:ALA:HB1	46:DZ:99:TYR:HB2	1.90	0.54
44:BX:56:THR:C	44:BX:57:LEU:HD12	2.28	0.54
37:DQ:43:THR:OG1	37:DQ:45:GLN:HG2	2.08	0.54
36:DP:23:PRO:HB2	36:DP:33:ARG:HE	1.72	0.54
5:CC:14:ILE:HG21	5:CC:178:LEU:HD12	1.89	0.54
36:BP:46:LYS:HE3	36:BP:51:PHE:HE2	1.73	0.54
43:DW:18:ARG:NH1	25:DA:518:G:H4'	2.23	0.54
18:CP:22:THR:HG22	18:CP:32:TYR:HA	1.90	0.54
48:B1:86:SER:HA	48:B1:89:GLU:HG3	1.89	0.54
24:CX:115:THR:H	24:CX:196:THR:HB	1.73	0.54
34:BN:69:VAL:HG13	34:BN:71:MET:HG3	1.89	0.54
27:DD:59:LYS:HB3	25:DA:1568:G:H4'	1.88	0.54
25:DA:270(G):U:H3	25:DA:270(U):G:H1	1.56	0.54
32:DI:113:ARG:HB2	32:DI:130:TYR:CZ	2.42	0.54
25:BA:782:A:H5'	25:BA:783:A:C2	2.42	0.54
25:DA:2113:U:H2'	25:DA:2114:A:H8	1.71	0.54
52:D5:9:LYS:NZ	25:DA:2019:A:H62	2.06	0.54
1:CA:1064:G:H21	1:CA:1190:G:H2'	1.72	0.54
15:CM:86:CYS:HB3	21:CS:74:PHE:CE1	2.43	0.54
1:CA:902:G:H2'	1:CA:903:G:H8	1.72	0.54
25:DA:1529:A:H3'	25:DA:1530:G:H8	1.73	0.54
25:BA:1292:U:H2'	25:BA:1293:C:C6	2.43	0.54
1:CA:376:G:H5''	18:CP:5:ARG:HB2	1.90	0.54
25:DA:2580:U:C5	25:DA:2581:G:C6	2.95	0.54
7:CE:25:ARG:H	7:CE:25:ARG:HD2	1.72	0.54
1:AA:792:A:H4'	1:AA:793:U:O5'	2.08	0.54
25:DA:307:G:H8	25:DA:307:G:O5'	1.89	0.54
1:CA:792:A:H4'	1:CA:793:U:O5'	2.07	0.54
29:DF:80:ALA:O	29:DF:83:PHE:HB2	2.08	0.54
25:BA:1027:A:C2	25:BA:2488:A:H5'	2.43	0.54
28:DE:192:ASN:HB2	25:DA:2820:A:N6	2.23	0.54
29:DF:160:ASN:ND2	29:DF:162:LEU:H	2.06	0.54
25:BA:2105:C:H2'	25:BA:2106:G:C8	2.43	0.54
25:BA:1483:G:H2'	25:BA:1484:G:H8	1.72	0.54
14:AL:83:LEU:HD12	14:AL:103:VAL:HG11	1.90	0.54
28:BE:28:ALA:HB3	28:BE:93:VAL:HG12	1.89	0.54
22:CT:45:GLN:HB2	22:CT:91:LEU:HD13	1.89	0.54
37:BQ:75:THR:HA	37:BQ:88:GLY:CA	2.38	0.54
25:DA:2301:C:H2'	25:DA:2302:G:C8	2.43	0.54
29:BF:126:VAL:O	29:BF:196:LEU:HG	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AI:8:GLY:HA3	11:AI:76:ALA:O	2.08	0.54
25:BA:2018:G:OP1	52:B5:9:LYS:HE2	2.08	0.54
25:BA:297:C:H5"	45:BY:85:VAL:HG21	1.90	0.54
1:CA:491:G:H2'	1:CA:492:G:H8	1.71	0.54
25:DA:278:A:H61	25:DA:362:U:H3	1.54	0.54
25:BA:1490:A:H4'	25:BA:1491:G:OP2	2.08	0.54
8:AF:85:VAL:HG11	8:AF:88:VAL:HG22	1.90	0.54
37:DQ:20:ALA:HB1	37:DQ:99:PRO:O	2.08	0.54
49:B2:16:LEU:HD23	49:B2:20:GLU:OE2	2.08	0.54
18:AP:28:ARG:HH11	18:AP:28:ARG:CG	2.17	0.54
38:BR:104:ARG:CB	38:BR:104:ARG:HH11	2.20	0.54
40:BT:95:ARG:HH11	40:BT:95:ARG:CG	2.13	0.54
34:BN:42:GLU:O	34:BN:44:LYS:HG2	2.08	0.54
46:DZ:10:ARG:HB3	46:DZ:36:LYS:HB3	1.89	0.54
25:DA:1993:U:H2'	25:DA:1994:C:H6	1.72	0.54
55:D8:54:GLU:HA	55:D8:57:ARG:NH1	2.23	0.54
25:BA:1273:U:H4'	25:BA:1275:A:OP2	2.08	0.54
53:B6:16:CYS:SG	53:B6:48:VAL:HG23	2.47	0.54
35:DO:22:ILE:HD12	25:DA:1952:A:C4	2.43	0.54
25:DA:956:G:N2	25:DA:959:A:H3'	2.23	0.54
1:AA:512:U:H2'	1:AA:513:C:C6	2.42	0.54
1:CA:429:U:H4'	1:CA:430:A:O5'	2.08	0.54
25:BA:2110:G:H4'	25:BA:2145:C:N4	2.23	0.54
25:BA:455:C:N3	25:BA:472:A:H2'	2.23	0.54
15:AM:86:CYS:HB3	21:AS:74:PHE:CE1	2.43	0.54
25:DA:1090:U:H2'	25:DA:1091:G:C8	2.42	0.54
1:CA:563:A:N3	1:CA:563:A:H2'	2.22	0.54
25:BA:1493:C:H2'	25:BA:1493:C:O2	2.06	0.54
1:AA:328:C:H4'	1:AA:329:A:H5'	1.90	0.54
5:AC:77:ILE:C	5:AC:83:ARG:HB3	2.28	0.54
1:AA:510:A:H5"	1:AA:511:C:OP2	2.07	0.54
7:CE:38:GLN:HA	7:CE:71:LEU:HD11	1.90	0.54
30:BG:33:ARG:CZ	30:BG:162:THR:HG21	2.38	0.54
25:BA:2096:U:H2'	25:BA:2097:C:C6	2.43	0.54
37:BQ:20:ALA:HB1	37:BQ:99:PRO:O	2.08	0.53
25:DA:1528:A:H62	25:DA:1543:A:H2	1.56	0.53
48:D1:46:LEU:HD11	48:D1:61:ARG:HG3	1.89	0.53
25:BA:1577:C:H2'	25:BA:1578:U:C6	2.43	0.53
5:AC:105:GLU:HG2	5:AC:106:VAL:N	2.21	0.53
4:CB:205:ASP:O	4:CB:211:ILE:HD11	2.07	0.53
34:DN:42:GLU:O	34:DN:44:LYS:HG2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1201:C:H2'	25:BA:1202:C:C6	2.43	0.53
25:DA:2850:A:H5'	25:DA:2868:A:C2	2.39	0.53
25:BA:1265:A:H3'	52:B5:19:ARG:NH1	2.23	0.53
28:BE:111:ARG:HB3	38:BR:2:ARG:HH11	1.73	0.53
25:BA:1058:G:H2'	25:BA:1059:G:C8	2.44	0.53
30:BG:114:ILE:HG23	30:BG:115:ARG:HD2	1.90	0.53
30:BG:115:ARG:HH22	30:BG:136:ARG:H	1.56	0.53
24:AX:306:ASN:OD1	24:AX:308:PRO:HG2	2.08	0.53
25:BA:1140:C:OP1	34:BN:46:LEU:HB3	2.08	0.53
5:AC:13:GLY:HA3	16:AN:57:ARG:HE	1.73	0.53
1:CA:1161:C:H2'	1:CA:1162:C:H6	1.73	0.53
28:DE:62:PRO:HG3	25:DA:2787:C:H1'	1.90	0.53
1:CA:817:C:H1'	1:CA:819:A:H5'	1.90	0.53
25:BA:1005:C:H1'	25:BA:1012:U:N3	2.23	0.53
54:D7:2:LYS:HG2	25:DA:1620:G:O2'	2.07	0.53
25:DA:1278:A:H2'	25:DA:1279:G:H8	1.73	0.53
25:DA:289:A:H2'	25:DA:290:G:O4'	2.08	0.53
1:CA:731:G:OP1	1:CA:766:A:H1'	2.09	0.53
29:DF:9:ILE:HD13	29:DF:9:ILE:H	1.72	0.53
25:BA:1838:C:H5''	25:BA:1838:C:C6	2.42	0.53
35:DO:12:ASP:OD1	35:DO:85:VAL:HG13	2.08	0.53
25:BA:702:G:C6	25:BA:703:U:C4	2.96	0.53
11:CI:4:TYR:HB2	11:CI:19:LEU:HB3	1.90	0.53
1:AA:1352:C:H2'	1:AA:1353:G:C8	2.42	0.53
48:B1:45:ASN:HD22	48:B1:46:LEU:N	2.07	0.53
29:DF:63:LYS:NZ	29:DF:67:GLN:HG2	2.23	0.53
25:DA:1404:C:H2'	25:DA:1405:U:H6	1.73	0.53
25:DA:141(A):A:H3'	25:DA:141(B):C:H6	1.73	0.53
17:AO:60:VAL:HG11	25:BA:715:G:O4'	2.08	0.53
25:DA:2401:U:O2'	25:DA:2402:C:H5''	2.08	0.53
36:DP:66:GLY:HA2	25:DA:2415:G:H4'	1.87	0.53
36:BP:23:PRO:HB2	36:BP:33:ARG:HE	1.73	0.53
25:DA:2030:A:H5''	25:DA:2031:A:OP1	2.07	0.53
40:DT:24:PRO:HA	40:DT:49:VAL:HG13	1.90	0.53
1:CA:1342:C:H2'	1:CA:1343:G:C8	2.42	0.53
32:BI:68:LEU:O	32:BI:72:LEU:HB2	2.07	0.53
29:DF:160:ASN:OD1	29:DF:163:VAL:HG23	2.08	0.53
1:CA:1504:G:O2'	1:CA:1505:G:OP2	2.26	0.53
41:DU:76:TYR:HE2	25:DA:1153:C:H5'	1.72	0.53
31:DH:27:LYS:HG2	31:DH:32:GLU:HB2	1.91	0.53
25:BA:518:G:H4'	43:BW:18:ARG:NH1	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:94:G:N2	49:B2:47:ASN:ND2	2.56	0.53
27:DD:47:GLY:HA3	25:DA:773:U:H4'	1.90	0.53
25:BA:2052:G:C8	28:BE:141:ILE:HD11	2.43	0.53
28:DE:28:ALA:HB3	28:DE:93:VAL:HG12	1.90	0.53
22:AT:45:GLN:HB2	22:AT:91:LEU:HD13	1.89	0.53
1:CA:22:G:H4'	1:CA:885:G:C8	2.42	0.53
25:DA:1448:G:H21	25:DA:1529:A:H2	1.57	0.53
25:BA:2019:A:H5''	41:BU:27:LEU:HD12	1.90	0.53
31:DH:109:PHE:CE1	31:DH:152:ARG:HD3	2.43	0.53
6:CD:200:GLU:O	6:CD:204:ILE:HG13	2.07	0.53
1:AA:1064:G:H21	1:AA:1190:G:H2'	1.72	0.53
25:DA:792:G:H5''	25:DA:793:A:H5'	1.90	0.53
22:CT:10:LEU:HD12	22:CT:11:SER:H	1.73	0.53
44:DX:56:THR:C	44:DX:57:LEU:HD12	2.28	0.53
1:AA:1201:A:H4'	1:AA:1202:G:O5'	2.09	0.53
25:DA:210:C:H2'	25:DA:211:A:H8	1.73	0.53
22:AT:90:GLN:O	22:AT:93:GLU:HB3	2.08	0.53
11:AI:4:TYR:HB2	11:AI:19:LEU:HB3	1.90	0.53
42:BV:4:ILE:HD13	42:BV:13:ARG:HA	1.90	0.53
25:BA:1827:C:H2'	25:BA:1828:G:O4'	2.08	0.53
1:AA:529:G:O6	14:AL:48:ASN:HA	2.08	0.53
25:DA:1577:C:H2'	25:DA:1578:U:C6	2.43	0.53
24:AX:96:LEU:C	24:AX:98:PRO:HD3	2.29	0.53
36:BP:57:THR:C	36:BP:59:LEU:H	2.09	0.53
49:D2:63:VAL:HG13	49:D2:67:LYS:HE2	1.89	0.53
44:BX:62:LYS:O	44:BX:63:LYS:HD3	2.08	0.53
32:BI:109:ILE:H	32:BI:109:ILE:HD13	1.73	0.53
17:AO:45:VAL:HG23	17:AO:46:HIS:ND1	2.23	0.53
20:CR:45:SER:HB3	20:CR:51:LEU:CG	2.38	0.53
25:DA:826:U:H2'	25:DA:828:U:O4'	2.08	0.53
25:DA:2513:G:C2	25:DA:2514:U:C2	2.97	0.53
29:DF:176:LEU:HD21	29:DF:180:GLY:O	2.07	0.53
1:AA:259:G:H2'	1:AA:260:G:C8	2.43	0.53
25:BA:536:A:H2'	25:BA:537:C:C6	2.42	0.53
27:DD:70:TRP:CH2	27:DD:150:LYS:HA	2.44	0.53
25:DA:702:G:C6	25:DA:703:U:C4	2.97	0.53
8:CF:89:MET:SD	8:CF:91:VAL:HG23	2.49	0.53
28:DE:19:ARG:HG3	28:DE:20:ALA:N	2.23	0.53
25:DA:1914:C:H2'	25:DA:1915:U:O4'	2.08	0.53
25:BA:210:C:H2'	25:BA:211:A:H8	1.73	0.53
13:CK:85:ARG:HE	13:CK:111:ASP:HB3	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1914:C:H2'	25:BA:1915:U:O4'	2.08	0.53
41:BU:92:ARG:HG2	42:BV:11:GLN:CD	2.29	0.53
49:B2:39:ALA:CA	49:B2:45:SER:HB3	2.30	0.53
1:CA:529:G:O6	14:CL:48:ASN:HA	2.09	0.53
4:AB:98:LEU:O	4:AB:101:MET:HG3	2.09	0.53
1:AA:1220:G:H2'	1:AA:1221:G:H8	1.73	0.53
13:CK:12:ARG:HG2	13:CK:13:GLN:N	2.21	0.53
36:BP:50:ARG:HG2	36:BP:50:ARG:O	2.08	0.53
25:DA:2105:C:H2'	25:DA:2106:G:C8	2.44	0.53
52:D5:19:ARG:NH1	25:DA:1265:A:H3'	2.24	0.53
1:AA:1271:G:H2'	1:AA:1272:G:C8	2.42	0.53
35:DO:104:ARG:HB3	35:DO:104:ARG:NH1	2.24	0.53
34:BN:53:ILE:O	34:BN:57:LEU:HB2	2.08	0.53
25:BA:1009:A:O4'	41:BU:59:ARG:HD3	2.09	0.53
1:CA:262:A:C6	1:CA:263:A:C6	2.96	0.53
34:DN:43:GLY:HA2	34:DN:84:ARG:CG	2.39	0.53
1:CA:464:G:C6	1:CA:466:G:H5''	2.44	0.53
7:CE:16:THR:HG23	7:CE:27:ARG:O	2.09	0.53
4:CB:25:ASN:N	4:CB:25:ASN:HD22	2.07	0.53
25:DA:807:U:H2'	25:DA:808:G:H8	1.73	0.53
42:DV:24:LYS:HA	42:DV:92:THR:HG23	1.90	0.53
1:CA:553:A:H2'	1:CA:554:C:C6	2.43	0.53
19:CQ:73:VAL:HG12	19:CQ:74:LEU:H	1.74	0.53
19:CQ:7:THR:HG22	19:CQ:58:GLU:HG2	1.90	0.53
11:CI:97:LYS:HB3	11:CI:98:PRO:HD3	1.90	0.53
25:DA:2110:G:H4'	25:DA:2145:C:N4	2.23	0.53
30:DG:33:ARG:CZ	30:DG:162:THR:HG21	2.38	0.53
27:DD:242:ARG:N	27:DD:242:ARG:CD	2.71	0.53
44:DX:18:TYR:HA	44:DX:21:PHE:CD1	2.44	0.53
44:DX:37:THR:O	44:DX:40:LYS:HB3	2.09	0.53
25:BA:1790:C:H2'	25:BA:1791:A:C5	2.43	0.53
42:DV:4:ILE:HD13	42:DV:13:ARG:HA	1.89	0.53
37:DQ:43:THR:HA	37:DQ:94:VAL:HG12	1.91	0.53
18:AP:8:ARG:HH21	18:AP:15:PRO:HG3	1.74	0.53
36:DP:46:LYS:HE3	36:DP:51:PHE:HE2	1.73	0.53
25:BA:443:A:C6	29:BF:45:ARG:HD2	2.44	0.53
1:AA:1355:G:H2'	1:AA:1356:G:H8	1.72	0.53
41:DU:62:ILE:HD13	41:DU:65:ILE:HD12	1.90	0.53
39:DS:26:LEU:HG	39:DS:39:ILE:CD1	2.38	0.53
24:AX:283:GLU:OE1	24:AX:283:GLU:HA	2.08	0.53
25:BA:2134:A:H2'	25:BA:2135:A:H8	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CG:38:LEU:O	9:CG:42:ILE:HG13	2.07	0.53
12:AJ:30:SER:HB2	12:AJ:80:LYS:HG3	1.88	0.53
29:BF:176:LEU:HD21	29:BF:180:GLY:O	2.08	0.53
29:DF:28:ILE:O	29:DF:30:PRO:HD3	2.07	0.53
28:BE:31:CYS:HB3	28:BE:49:LEU:HB3	1.91	0.53
25:DA:1005:C:H1'	25:DA:1012:U:N3	2.23	0.53
25:BA:36:G:H4'	25:BA:451:C:C2	2.44	0.53
25:BA:1006:C:O2	34:BN:129:MET:HG2	2.08	0.53
9:CG:16:LEU:HB2	11:CI:41:VAL:HG12	1.90	0.53
9:CG:115:ARG:O	9:CG:118:VAL:HG22	2.07	0.53
25:BA:666:G:H4'	36:BP:49:ARG:NH1	2.24	0.53
31:DH:44:VAL:HB	31:DH:51:ARG:HB2	1.89	0.53
25:DA:1360:A:H5'	25:DA:1361:G:OP2	2.08	0.53
25:BA:494:G:N2	43:BW:57:ASN:HD21	2.06	0.53
1:CA:328:C:H4'	1:CA:329:A:H5'	1.89	0.53
11:CI:16:ARG:O	11:CI:63:ILE:HG23	2.08	0.53
24:CX:96:LEU:C	24:CX:98:PRO:HD3	2.29	0.53
30:BG:53:LEU:CD1	30:BG:88:ILE:HG12	2.39	0.53
25:BA:2820:A:N6	28:BE:192:ASN:HB2	2.23	0.53
44:BX:62:LYS:O	44:BX:73:ARG:HB2	2.08	0.53
21:AS:29:ARG:HD2	21:AS:30:LEU:N	2.24	0.53
27:DD:80:ALA:HA	27:DD:113:VAL:HG13	1.90	0.53
25:DA:1058:G:H2'	25:DA:1059:G:C8	2.44	0.53
19:CQ:94:ASN:O	19:CQ:98:LEU:HG	2.09	0.53
1:CA:716:A:N3	13:CK:118:GLY:HA2	2.23	0.53
12:AJ:62:HIS:HD2	16:AN:59:ALA:HB3	1.74	0.53
25:BA:1270:C:H5''	25:BA:1271:G:H5'	1.90	0.53
25:BA:2302:G:H21	30:BG:126:ASP:HB2	1.74	0.53
25:BA:2019:A:H62	52:B5:9:LYS:NZ	2.06	0.53
25:DA:1891:G:H2'	25:DA:1892:C:O4'	2.09	0.53
4:AB:95:GLN:HG3	4:AB:147:LYS:O	2.09	0.53
10:AH:86:ILE:HB	10:AH:133:LEU:HD22	1.91	0.53
25:BA:2683:C:H2'	25:BA:2684:U:C6	2.44	0.53
30:BG:27:ASN:HD21	30:BG:29:TRP:HD1	1.56	0.53
1:AA:91:C:O5'	1:AA:91:C:H6	1.91	0.53
41:BU:75:ASN:HB2	41:BU:78:THR:OG1	2.09	0.53
7:AE:38:GLN:HA	7:AE:71:LEU:HD11	1.91	0.53
25:BA:2787:C:H1'	28:BE:62:PRO:HG3	1.90	0.53
51:B4:38:ALA:HA	51:B4:55:PRO:HA	1.91	0.53
45:BY:96:ILE:CD1	45:BY:99:CYS:HB2	2.37	0.53
49:B2:16:LEU:H	49:B2:20:GLU:HG3	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2258:C:O2'	25:BA:2426:A:H4'	2.09	0.53
37:DQ:30:GLY:CA	37:DQ:107:ALA:HB2	2.35	0.53
24:CX:236:ASP:CG	24:CX:237:SER:H	2.11	0.53
45:DY:47:LYS:HE3	25:DA:498:G:N2	2.23	0.53
11:CI:53:VAL:HG12	11:CI:92:TYR:HD2	1.74	0.53
1:AA:1228:C:H2'	1:AA:1229:A:C8	2.39	0.53
21:CS:29:ARG:HD2	21:CS:30:LEU:N	2.24	0.53
36:DP:25:SER:O	25:DA:811:U:H3'	2.09	0.53
4:CB:32:ILE:HD11	4:CB:40:HIS:HB3	1.91	0.53
21:CS:16:LEU:O	21:CS:20:LEU:HG	2.09	0.53
25:BA:2821:A:OP1	28:BE:110:GLY:N	2.42	0.53
34:DN:53:ILE:HD12	34:DN:122:LEU:HD11	1.91	0.53
52:B5:3:LYS:O	52:B5:6:VAL:HG23	2.09	0.53
28:DE:184:VAL:HG12	28:DE:185:LYS:H	1.74	0.53
25:BA:970:C:H2'	25:BA:971:C:C6	2.42	0.53
4:CB:135:GLN:O	4:CB:139:LYS:HG2	2.09	0.53
22:CT:90:GLN:O	22:CT:93:GLU:HB3	2.09	0.53
30:DG:29:TRP:CH2	26:DB:31:C:H4'	2.44	0.53
10:AH:17:THR:HB	10:AH:78:GLN:HE22	1.74	0.53
27:DD:126:GLN:HG2	27:DD:127:VAL:H	1.71	0.53
11:AI:97:LYS:HB3	11:AI:98:PRO:HD3	1.90	0.53
45:DY:85:VAL:HG21	25:DA:297:C:H5''	1.91	0.53
25:DA:1838:C:H5''	25:DA:1838:C:C6	2.44	0.53
25:BA:329:G:OP1	25:BA:329:G:H8	1.91	0.53
32:DI:81:VAL:HG12	32:DI:82:ARG:H	1.74	0.53
9:AG:51:GLN:HA	9:AG:54:THR:O	2.09	0.53
25:BA:1528:A:H62	25:BA:1543:A:H2	1.56	0.53
24:AX:97:LEU:HD13	24:AX:102:MET:SD	2.49	0.53
51:B4:42:CYS:SG	51:B4:46:ASN:HB3	2.49	0.53
51:D4:42:CYS:HA	51:D4:59:VAL:C	2.28	0.53
27:DD:35:LYS:HE3	27:DD:104:TYR:HB2	1.90	0.53
25:BA:886:C:H3'	25:BA:886:C:H6	1.74	0.53
1:CA:736:C:H2'	1:CA:737:A:H8	1.71	0.53
55:B8:54:GLU:HA	55:B8:57:ARG:NH1	2.24	0.53
25:DA:1273:U:H4'	25:DA:1275:A:OP2	2.08	0.53
24:CX:46:GLY:O	24:CX:50:GLU:HG2	2.09	0.53
21:CS:40:ILE:HG21	21:CS:62:ILE:HD11	1.90	0.53
1:AA:191(F):U:H2'	1:AA:191(G):G:C8	2.44	0.53
13:AK:85:ARG:HE	13:AK:111:ASP:HB3	1.73	0.53
25:BA:954:G:H5''	37:BQ:13:GLN:CG	2.39	0.53
25:BA:247:G:H4'	25:BA:386:G:C5	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DU:59:ARG:HD3	25:DA:1009:A:O4'	2.08	0.53
2:CZ:18:G:H22	2:CZ:57:A:H2'	1.73	0.53
1:AA:553:A:H2'	1:AA:554:C:C6	2.44	0.53
27:BD:93:ALA:HB2	27:BD:107:ALA:HB2	1.91	0.53
1:AA:313:A:H2'	1:AA:314:C:C6	2.44	0.53
11:CI:8:GLY:HA3	11:CI:76:ALA:O	2.08	0.53
27:BD:242:ARG:N	27:BD:242:ARG:CD	2.71	0.53
45:DY:9:LYS:HB3	25:DA:84:A:H5'	1.90	0.53
29:BF:63:LYS:NZ	29:BF:67:GLN:HG2	2.23	0.53
29:BF:67:GLN:HG3	29:BF:67:GLN:O	2.09	0.53
29:BF:103:LYS:HA	29:BF:106:ARG:CG	2.38	0.53
27:DD:125:ILE:N	27:DD:125:ILE:HD12	2.23	0.53
28:BE:77:ILE:HG21	28:BE:195:LEU:HD13	1.91	0.53
7:AE:51:VAL:O	7:AE:55:VAL:HG23	2.09	0.53
11:CI:99:LEU:HD12	11:CI:101:PHE:HE2	1.74	0.53
44:DX:62:LYS:O	44:DX:73:ARG:HB2	2.09	0.53
18:CP:20:VAL:HG21	18:CP:32:TYR:CG	2.44	0.53
24:AX:58:LEU:O	24:AX:62:GLU:HG3	2.08	0.53
28:BE:111:ARG:O	38:BR:2:ARG:HD3	2.09	0.53
19:AQ:94:ASN:O	19:AQ:98:LEU:HG	2.08	0.53
39:DS:13:ARG:HH22	25:DA:2335:A:H8	1.57	0.53
30:DG:114:ILE:HG23	30:DG:115:ARG:HD2	1.90	0.53
25:DA:1952:A:C6	25:DA:1953:A:C6	2.97	0.53
25:DA:2134:A:H2'	25:DA:2135:A:H8	1.74	0.53
16:CN:37:PHE:CZ	16:CN:56:VAL:HG21	2.42	0.53
25:DA:1980:G:H5''	25:DA:1980:G:H8	1.74	0.53
49:B2:56:GLN:O	49:B2:60:LEU:HG	2.09	0.53
25:BA:2542:A:H1'	25:BA:2543:G:N7	2.24	0.53
1:AA:619:U:C2	6:AD:135:LEU:HD21	2.44	0.53
28:DE:187:ALA:CB	25:DA:2729:G:H1'	2.39	0.53
45:DY:20:TYR:CE1	45:DY:42:VAL:HA	2.44	0.53
37:BQ:66:ILE:HG22	37:BQ:104:PHE:HD2	1.74	0.53
25:BA:2113:U:H2'	25:BA:2114:A:C8	2.44	0.53
1:AA:22:G:H2'	1:AA:23:C:H6	1.74	0.53
25:BA:1529:A:H3'	25:BA:1530:G:H8	1.74	0.53
50:D3:2:PRO:HB2	50:D3:59:VAL:O	2.09	0.53
1:CA:91:C:H6	1:CA:91:C:O5'	1.92	0.53
25:BA:1278:A:H2'	25:BA:1279:G:H8	1.74	0.53
25:DA:2096:U:H2'	25:DA:2097:C:C6	2.44	0.53
25:BA:2037:G:H2'	25:BA:2038:G:C8	2.44	0.53
10:AH:111:ILE:O	10:AH:134:ILE:HB	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AH:82:HIS:HD2	10:AH:138:TRP:NE1	2.07	0.53
25:DA:576:U:H2'	25:DA:577:G:C8	2.44	0.53
31:DH:96:ALA:HA	31:DH:105:LEU:HB3	1.90	0.53
25:DA:1197:G:H5'	25:DA:1227:G:O2'	2.08	0.53
1:CA:1316:G:H8	1:CA:1316:G:O5'	1.92	0.53
10:CH:86:ILE:HB	10:CH:133:LEU:HD22	1.91	0.53
30:BG:8:LYS:O	30:BG:12:TYR:HD1	1.92	0.53
1:AA:353:A:H5'	1:AA:353:A:H8	1.74	0.53
42:BV:99:ILE:H	42:BV:99:ILE:HD13	1.72	0.53
1:CA:313:A:H2'	1:CA:314:C:C6	2.44	0.53
1:CA:1320:C:H2'	1:CA:1321:C:O4'	2.09	0.53
1:CA:510:A:H5''	1:CA:511:C:OP2	2.09	0.53
22:CT:80:ARG:O	22:CT:84:LEU:HB2	2.09	0.53
25:BA:527:C:C4	25:BA:2779:U:H2'	2.43	0.53
25:BA:729:G:H2'	25:BA:1775:U:H1'	1.91	0.53
6:CD:108:LEU:HD23	6:CD:110:PHE:HE2	1.74	0.53
1:AA:522:C:H42	1:AA:528:C:H42	1.56	0.53
36:BP:97:PRO:HD3	36:BP:126:VAL:O	2.09	0.53
30:BG:97:ASP:O	30:BG:101:ILE:HG23	2.09	0.53
25:DA:670:A:H4'	25:DA:671:C:H5'	1.91	0.53
28:DE:77:ILE:HG21	28:DE:195:LEU:HD13	1.91	0.53
51:B4:42:CYS:HA	51:B4:59:VAL:C	2.30	0.53
25:DA:729:G:H2'	25:DA:1775:U:H1'	1.91	0.53
1:AA:1356:G:H2'	1:AA:1357:A:H8	1.71	0.53
55:D8:48:PHE:CE1	55:D8:50:LEU:HD21	2.44	0.53
1:CA:1502:A:H8	1:CA:1505:G:H22	1.57	0.53
48:B1:73:LEU:HD21	48:B1:94:LEU:HD21	1.89	0.53
4:AB:32:ILE:HD11	4:AB:40:HIS:HB3	1.91	0.53
48:D1:27:GLU:HB3	48:D1:33:LYS:HG3	1.91	0.53
25:BA:27:G:O5'	25:BA:27:G:H8	1.91	0.53
25:BA:270(R):C:O2'	25:BA:270(S):G:H5'	2.09	0.53
49:D2:32:LEU:HA	49:D2:53:LEU:HD13	1.91	0.53
44:DX:31:HIS:HE1	25:DA:71:A:C2	2.27	0.53
8:CF:53:ALA:HB3	8:CF:86:ARG:NH1	2.24	0.53
25:DA:247:G:H4'	25:DA:386:G:C5	2.43	0.53
1:CA:677:U:H2'	1:CA:678:U:H6	1.72	0.53
46:DZ:57:ILE:N	46:DZ:57:ILE:HD12	2.24	0.53
48:D1:20:ARG:HH11	48:D1:20:ARG:HB2	1.74	0.53
37:DQ:75:THR:HA	37:DQ:88:GLY:CA	2.38	0.53
1:CA:312:C:H2'	1:CA:313:A:C8	2.43	0.53
28:DE:152:LYS:HG2	25:DA:2619:C:H5''	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AQ:73:VAL:HG12	19:AQ:74:LEU:H	1.74	0.53
8:CF:85:VAL:HG11	8:CF:88:VAL:HG22	1.91	0.53
27:DD:93:ALA:HB2	27:DD:107:ALA:HB2	1.91	0.53
25:BA:1945:G:H1	25:BA:1961:C:H42	1.57	0.53
7:AE:57:LYS:HE2	7:AE:61:TYR:HE2	1.72	0.53
49:B2:59:ARG:HA	49:B2:62:THR:HB	1.90	0.53
4:CB:153:ARG:NH1	4:CB:153:ARG:HB2	2.25	0.53
1:AA:429:U:H4'	1:AA:430:A:O5'	2.08	0.53
50:B3:29:ARG:HE	50:B3:29:ARG:HA	1.73	0.53
25:DA:1490:A:H4'	25:DA:1491:G:OP2	2.09	0.53
25:BA:1891:G:H2'	25:BA:1892:C:O4'	2.09	0.53
1:AA:539:A:H2'	1:AA:540:G:C8	2.44	0.53
25:DA:1034:G:C5	25:DA:1035:U:C4	2.97	0.53
25:DA:1827:C:H2'	25:DA:1828:G:O4'	2.08	0.52
25:DA:2258:C:O2'	25:DA:2426:A:H4'	2.09	0.52
16:AN:2:ALA:O	16:AN:6:LEU:HB2	2.09	0.52
49:D2:21:LEU:HD12	49:D2:64:LEU:HB3	1.91	0.52
28:DE:84:PHE:CE2	28:DE:86:PRO:HG3	2.44	0.52
25:BA:2030:A:H5''	25:BA:2031:A:OP1	2.09	0.52
25:BA:2591:C:P	27:BD:239:ARG:HB2	2.49	0.52
1:AA:1342:C:H2'	1:AA:1343:G:C8	2.43	0.52
27:BD:35:LYS:HE3	27:BD:104:TYR:HB2	1.90	0.52
25:DA:1785:A:H2'	25:DA:1786:A:H5''	1.92	0.52
8:CF:72:VAL:HG13	8:CF:73:ASN:N	2.22	0.52
25:DA:2502:G:H5'	25:DA:2503:A:C5'	2.38	0.52
9:CG:92:SER:O	9:CG:96:GLN:HG3	2.09	0.52
48:D1:27:GLU:HB2	48:D1:33:LYS:HA	1.90	0.52
1:CA:191(E):G:H2'	1:CA:191(F):U:C6	2.44	0.52
14:AL:82:VAL:HG22	14:AL:83:LEU:N	2.23	0.52
1:CA:694:A:OP1	13:CK:53:SER:HB3	2.08	0.52
25:DA:713:G:H2'	25:DA:714:U:H6	1.74	0.52
34:DN:46:LEU:HB3	25:DA:1140:C:OP1	2.09	0.52
25:BA:915:C:H2'	25:BA:916:G:H8	1.74	0.52
26:DB:44:G:H1'	26:DB:47:C:N4	2.24	0.52
25:DA:915:C:H2'	25:DA:916:G:H8	1.74	0.52
37:BQ:140:ALA:HB1	46:BZ:99:TYR:HB2	1.90	0.52
1:AA:312:C:H2'	1:AA:313:A:C8	2.44	0.52
19:AQ:7:THR:HG22	19:AQ:58:GLU:HG2	1.90	0.52
25:DA:329:G:OP1	25:DA:329:G:H8	1.91	0.52
2:AZ:27:U:H2'	2:AZ:28:C:C6	2.43	0.52
1:CA:438:G:H4'	1:CA:439:A:OP1	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DP:30:THR:HG22	36:DP:31:ALA:N	2.24	0.52
31:BH:109:PHE:CE1	31:BH:152:ARG:HD3	2.44	0.52
9:CG:51:GLN:HA	9:CG:54:THR:O	2.09	0.52
25:DA:756:C:C4	25:DA:757:U:C5	2.97	0.52
29:BF:93:LYS:HB3	29:BF:94:PRO:HD2	1.90	0.52
34:DN:129:MET:HG2	25:DA:1006:C:O2	2.08	0.52
42:BV:28:GLU:HB3	42:BV:29:PRO:HD2	1.90	0.52
25:BA:2795:G:H3'	25:BA:2797:U:H5''	1.91	0.52
1:AA:1316:G:O2'	16:AN:18:VAL:HG21	2.09	0.52
50:B3:2:PRO:HB2	50:B3:59:VAL:O	2.09	0.52
29:DF:164:ARG:O	29:DF:168:ARG:HB2	2.10	0.52
10:CH:17:THR:HB	10:CH:78:GLN:HE22	1.73	0.52
48:D1:46:LEU:HA	48:D1:63:ALA:HA	1.90	0.52
25:BA:84:A:H5'	45:BY:9:LYS:HB3	1.91	0.52
16:CN:2:ALA:O	16:CN:6:LEU:HB2	2.09	0.52
52:D5:4:HIS:N	52:D5:5:PRO:HD2	2.25	0.52
25:BA:1434:A:H2'	25:BA:1435:G:H8	1.72	0.52
25:BA:2850:A:H5'	25:BA:2868:A:C2	2.39	0.52
25:BA:221:A:H8	25:BA:221:A:H5''	1.73	0.52
18:CP:20:VAL:HG23	18:CP:34:GLU:O	2.08	0.52
25:DA:2305:A:H3'	25:DA:2306:C:H5''	1.91	0.52
25:BA:1952:A:C4	35:BO:22:ILE:HD12	2.44	0.52
21:AS:36:ARG:HH12	21:AS:75:ALA:HB3	1.74	0.52
12:AJ:6:ILE:HD11	12:AJ:72:VAL:HB	1.92	0.52
1:AA:191(E):G:H2'	1:AA:191(F):U:C6	2.45	0.52
16:AN:37:PHE:CZ	16:AN:56:VAL:HG21	2.42	0.52
25:DA:919:G:C5'	26:DB:81:G:H1'	2.39	0.52
25:DA:2469:A:H5'	25:DA:2470:G:OP2	2.08	0.52
25:BA:2513:G:C2	25:BA:2514:U:C2	2.97	0.52
35:DO:17:ARG:HB2	35:DO:45:GLU:HG3	1.89	0.52
1:AA:256:U:H2'	1:AA:257:G:H8	1.74	0.52
34:DN:58:ARG:NH2	34:DN:131:PRO:HG3	2.22	0.52
1:AA:394:G:H2'	1:AA:395:C:H6	1.74	0.52
30:DG:126:ASP:HB2	25:DA:2302:G:H21	1.74	0.52
41:DU:75:ASN:HB2	41:DU:78:THR:OG1	2.08	0.52
25:BA:2580:U:C5	25:BA:2581:G:C6	2.97	0.52
8:AF:89:MET:SD	8:AF:91:VAL:HG23	2.49	0.52
31:BH:44:VAL:HB	31:BH:51:ARG:HB2	1.90	0.52
35:BO:12:ASP:OD1	35:BO:85:VAL:HG13	2.09	0.52
34:DN:160:LYS:HD2	34:DN:161:LEU:H	1.75	0.52
25:BA:2131:G:O5'	25:BA:2131:G:H8	1.93	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CB:21:ARG:HB3	4:CB:39:ILE:HG23	1.90	0.52
1:AA:1404:C:H2'	1:AA:1405:G:C8	2.44	0.52
10:CH:111:ILE:O	10:CH:134:ILE:HB	2.09	0.52
1:CA:1528:U:H5''	1:CA:1528:U:H6	1.73	0.52
48:D1:18:ILE:HD13	48:D1:18:ILE:H	1.74	0.52
1:CA:1404:C:H2'	1:CA:1405:G:C8	2.44	0.52
44:DX:36:LYS:HE3	44:DX:54:VAL:O	2.10	0.52
25:BA:1790:C:O2'	27:BD:209:ALA:HB2	2.10	0.52
25:BA:1842:G:H2'	25:BA:1843:C:C6	2.43	0.52
37:BQ:43:THR:OG1	37:BQ:45:GLN:HG2	2.08	0.52
10:CH:51:VAL:HG12	10:CH:52:ASP:N	2.18	0.52
10:AH:51:VAL:HG12	10:AH:52:ASP:N	2.18	0.52
30:DG:53:LEU:CD1	30:DG:88:ILE:HG12	2.39	0.52
18:CP:8:ARG:HH21	18:CP:15:PRO:HG3	1.74	0.52
38:DR:104:ARG:CB	38:DR:104:ARG:HH11	2.21	0.52
1:AA:1253:G:H2'	1:AA:1254:C:H6	1.74	0.52
27:DD:25:THR:HG21	27:DD:81:ALA:HA	1.90	0.52
25:DA:27:G:H8	25:DA:27:G:O5'	1.92	0.52
25:BA:811:U:H3'	36:BP:25:SER:O	2.09	0.52
24:AX:46:GLY:O	24:AX:50:GLU:HG2	2.09	0.52
1:AA:1320:C:H2'	1:AA:1321:C:O4'	2.09	0.52
25:BA:919:G:C5'	26:BB:81:G:H1'	2.40	0.52
25:BA:773:U:H4'	27:BD:47:GLY:HA3	1.90	0.52
34:BN:43:GLY:HA2	34:BN:84:ARG:CG	2.40	0.52
25:BA:323:G:HO2'	25:BA:1205:U:H3	1.56	0.52
2:AZ:18:G:H22	2:AZ:57:A:H2'	1.74	0.52
28:BE:117:MET:HE2	28:BE:124:GLY:HA3	1.92	0.52
21:CS:36:ARG:HH12	21:CS:75:ALA:HB3	1.74	0.52
1:AA:1316:G:O5'	1:AA:1316:G:H8	1.91	0.52
4:CB:95:GLN:HG3	4:CB:147:LYS:O	2.08	0.52
25:DA:1889:A:H2'	25:DA:1890:A:C8	2.44	0.52
1:CA:755:G:OP2	17:CO:65:ARG:HG3	2.09	0.52
4:AB:75:LYS:HD3	4:AB:75:LYS:C	2.30	0.52
26:DB:16:G:OP2	26:DB:16:G:H3'	2.09	0.52
44:BX:18:TYR:HA	44:BX:21:PHE:CD1	2.44	0.52
48:B1:19:GLN:HG2	48:B1:41:ARG:HA	1.91	0.52
36:DP:62:LEU:HD12	25:DA:2393:A:C5'	2.39	0.52
29:DF:102:PRO:O	29:DF:106:ARG:HG2	2.09	0.52
1:AA:1253:G:H2'	1:AA:1254:C:C6	2.45	0.52
38:DR:17:ARG:O	38:DR:20:LEU:HB3	2.09	0.52
1:CA:675:A:H2'	1:CA:676:A:C8	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:27:LYS:HG2	31:BH:32:GLU:HB2	1.91	0.52
28:DE:132:HIS:ND1	25:DA:1658:C:OP1	2.43	0.52
25:BA:441:U:H1'	29:BF:46:ARG:HH22	1.74	0.52
15:AM:12:ASN:HA	15:AM:46:LYS:HE2	1.90	0.52
25:BA:27:G:O2'	25:BA:28:A:H8	1.91	0.52
25:DA:1682:G:H5'	25:DA:1762:A:O2'	2.09	0.52
49:B2:35:LEU:HD12	49:B2:53:LEU:HD12	1.91	0.52
28:DE:110:GLY:N	25:DA:2821:A:OP1	2.41	0.52
27:DD:166:GLN:CA	27:DD:166:GLN:HE21	2.22	0.52
5:CC:27:LYS:HZ3	5:CC:27:LYS:HA	1.73	0.52
28:DE:154:LYS:O	28:DE:156:MET:HG3	2.09	0.52
25:BA:71:A:C2	44:BX:31:HIS:HE1	2.26	0.52
1:AA:237:C:H5''	19:AQ:25:ARG:CZ	2.38	0.52
1:AA:464:G:C6	1:AA:466:G:H5''	2.44	0.52
25:DA:210:C:H2'	25:DA:211:A:C8	2.45	0.52
4:AB:21:ARG:HB3	4:AB:39:ILE:HG23	1.92	0.52
4:CB:60:ASP:O	4:CB:64:ARG:HG2	2.10	0.52
46:DZ:8:TYR:HB2	46:DZ:38:TYR:CZ	2.45	0.52
24:CX:208:GLU:O	24:CX:210:PHE:N	2.43	0.52
6:AD:33:MET:HG2	6:AD:37:PRO:HA	1.92	0.52
4:AB:141:GLU:O	4:AB:145:LEU:HD23	2.09	0.52
1:CA:1201:A:H4'	1:CA:1202:G:O5'	2.09	0.52
4:AB:96:ARG:N	4:AB:96:ARG:HD2	2.24	0.52
4:CB:96:ARG:N	4:CB:96:ARG:HD2	2.24	0.52
25:DA:2795:G:H3'	25:DA:2797:U:H5''	1.90	0.52
36:BP:26:GLY:HA2	36:BP:30:THR:HG23	1.91	0.52
25:DA:6:A:H2'	25:DA:7:G:C8	2.45	0.52
9:AG:53:LYS:HG3	9:AG:125:MET:HE3	1.92	0.52
22:AT:10:LEU:HD12	22:AT:11:SER:H	1.73	0.52
4:CB:8:LYS:HG2	4:CB:217:ARG:NH1	2.24	0.52
25:BA:2282:G:H5''	25:BA:2283:C:O4'	2.09	0.52
1:AA:817:C:H1'	1:AA:819:A:H5'	1.90	0.52
42:BV:38:LEU:O	42:BV:52:VAL:HG12	2.10	0.52
48:D1:13:ILE:HG23	48:D1:14:VAL:H	1.73	0.52
29:DF:84:VAL:CG2	25:DA:448:U:H1'	2.40	0.52
24:AX:93:GLU:CD	24:AX:344:GLN:HB3	2.30	0.52
17:CO:60:VAL:O	17:CO:63:ARG:HB3	2.10	0.52
5:AC:105:GLU:CG	5:AC:106:VAL:H	2.20	0.52
4:CB:98:LEU:O	4:CB:101:MET:HG3	2.09	0.52
25:BA:141(A):A:H3'	25:BA:141(B):C:H6	1.73	0.52
24:AX:236:ASP:CG	24:AX:237:SER:H	2.11	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:B8:48:PHE:CE1	55:B8:50:LEU:HD21	2.45	0.52
12:CJ:6:ILE:HD11	12:CJ:72:VAL:HB	1.91	0.52
24:CX:80:ALA:O	24:CX:84:ARG:HB2	2.09	0.52
1:CA:1327:C:H2'	1:CA:1328:C:H6	1.74	0.52
34:BN:80:ALA:HB3	34:BN:147:ALA:HB2	1.91	0.52
1:CA:1152:A:H2'	1:CA:1153:C:C6	2.44	0.52
46:BZ:57:ILE:HD12	46:BZ:57:ILE:N	2.24	0.52
1:AA:394:G:C4	1:AA:395:C:C5	2.97	0.52
36:BP:30:THR:HG22	36:BP:31:ALA:N	2.24	0.52
7:AE:126:ARG:HA	7:AE:131:ILE:HD11	1.91	0.52
4:CB:141:GLU:O	4:CB:145:LEU:HD23	2.09	0.52
31:DH:13:LYS:HE2	31:DH:14:GLY:H	1.73	0.52
25:BA:375:C:H2'	25:BA:376:C:H6	1.73	0.52
55:B8:39:LYS:O	55:B8:43:GLN:HG2	2.10	0.52
31:BH:96:ALA:HA	31:BH:105:LEU:HB3	1.91	0.52
1:CA:1465:C:H2'	1:CA:1466:C:O4'	2.08	0.52
34:DN:85:VAL:HG22	34:DN:89:LYS:HG3	1.92	0.52
42:DV:28:GLU:HB3	42:DV:29:PRO:HD2	1.90	0.52
31:BH:13:LYS:HE2	31:BH:14:GLY:H	1.73	0.52
48:B1:18:ILE:HD13	48:B1:18:ILE:H	1.75	0.52
46:DZ:146:ILE:HA	46:DZ:174:VAL:HB	1.91	0.52
36:DP:97:PRO:HD3	36:DP:126:VAL:O	2.10	0.52
5:CC:58:GLU:HB2	5:CC:65:ALA:HB3	1.91	0.52
25:BA:141(A):A:H5''	25:BA:141(B):C:C5	2.36	0.52
24:CX:222:MET:HG2	25:DA:2555:U:H3	1.75	0.52
24:CX:223:ARG:HD3	24:CX:236:ASP:HB3	1.91	0.52
25:BA:1557:C:H5''	25:BA:1558:A:OP2	2.08	0.52
34:DN:40:ASP:OD1	34:DN:42:GLU:HG2	2.09	0.52
31:BH:101:ARG:HB2	31:BH:117:PRO:HG3	1.91	0.52
25:BA:2105:C:H2'	25:BA:2106:G:H8	1.74	0.52
32:BI:31:LEU:HB3	32:BI:32:PRO:HD3	1.92	0.52
24:AX:80:ALA:O	24:AX:84:ARG:HB2	2.10	0.52
1:AA:370:C:H2'	1:AA:371:G:C8	2.45	0.52
25:BA:2729:G:H1'	28:BE:187:ALA:CB	2.40	0.52
34:BN:53:ILE:HD12	34:BN:122:LEU:HD11	1.92	0.52
9:AG:92:SER:O	9:AG:96:GLN:HG3	2.10	0.52
4:AB:135:GLN:O	4:AB:139:LYS:HG2	2.08	0.52
25:DA:915:C:H2'	25:DA:916:G:C8	2.44	0.52
25:BA:210:C:H2'	25:BA:211:A:C8	2.45	0.52
30:DG:18:GLU:HG3	30:DG:21:ARG:HH21	1.74	0.52
25:DA:2623:G:H5'	25:DA:2826:A:H1'	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BF:65:TRP:CZ3	29:BF:75:HIS:HD2	2.28	0.52
25:DA:2837:G:H2'	25:DA:2838:G:H8	1.74	0.52
24:AX:312:VAL:HG21	24:AX:327:VAL:HG21	1.92	0.52
7:CE:126:ARG:HA	7:CE:131:ILE:HD11	1.92	0.52
5:CC:13:GLY:HA3	16:CN:57:ARG:HE	1.74	0.52
9:AG:16:LEU:HB2	11:AI:41:VAL:HG12	1.90	0.52
25:BA:218:A:H2'	25:BA:219:G:O4'	2.08	0.52
1:AA:563:A:H2'	1:AA:563:A:N3	2.24	0.52
1:AA:1161:C:H2'	1:AA:1162:C:H6	1.75	0.52
25:BA:1820:U:H4'	25:BA:1821:A:OP2	2.10	0.52
27:DD:186:HIS:CD2	27:DD:188:GLU:H	2.28	0.52
26:DB:67:G:N2	26:DB:68:C:C2	2.78	0.52
2:CY:26:G:H2'	2:CY:27:U:H6	1.75	0.52
25:DA:1824:G:O2'	25:DA:1825:A:H5'	2.09	0.52
44:DX:40:LYS:O	44:DX:44:GLU:HB2	2.09	0.52
44:DX:89:ILE:HB	44:DX:92:LEU:HB2	1.92	0.52
48:B1:13:ILE:HG23	48:B1:14:VAL:H	1.74	0.52
48:B1:11:ARG:HG3	48:B1:62:VAL:CA	2.40	0.52
25:BA:586:A:C5'	29:BF:89:VAL:HG11	2.34	0.52
11:AI:53:VAL:HG12	11:AI:92:TYR:HD2	1.74	0.52
18:AP:22:THR:HG22	18:AP:32:TYR:HA	1.91	0.52
27:DD:25:THR:O	27:DD:27:THR:HG22	2.10	0.52
27:BD:25:THR:O	27:BD:27:THR:HG22	2.10	0.52
1:AA:675:A:H2'	1:AA:676:A:C8	2.45	0.52
37:DQ:38:GLU:O	37:DQ:127:ILE:HD13	2.09	0.52
25:BA:1682:G:H5'	25:BA:1762:A:O2'	2.09	0.52
21:AS:16:LEU:O	21:AS:20:LEU:HG	2.09	0.52
14:CL:83:LEU:HD12	14:CL:103:VAL:HG11	1.91	0.52
25:DA:1980:G:H5''	25:DA:1980:G:C8	2.45	0.52
25:DA:1498:C:OP2	25:DA:1498:C:H3'	2.10	0.52
1:CA:176:C:H2'	1:CA:177:C:C6	2.45	0.52
1:CA:176:C:H5''	22:CT:29:LYS:HZ1	1.74	0.52
27:BD:166:GLN:HE21	27:BD:166:GLN:CA	2.23	0.52
1:AA:1152:A:H2'	1:AA:1153:C:C6	2.45	0.52
25:DA:2542:A:H1'	25:DA:2543:G:N7	2.25	0.52
2:CZ:37:A:H2'	2:CZ:38:A:C8	2.45	0.52
12:CJ:30:SER:HB2	12:CJ:80:LYS:HG2	1.91	0.52
28:BE:154:LYS:O	28:BE:156:MET:HG3	2.09	0.52
1:AA:1148:U:O3'	11:AI:14:VAL:HG11	2.10	0.52
41:BU:59:ARG:O	41:BU:63:VAL:HG23	2.09	0.52
2:CZ:18:G:N2	2:CZ:57:A:H2'	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1080:A:H5''	1:CA:1081:G:OP2	2.10	0.52
25:BA:2837:G:H2'	25:BA:2838:G:H8	1.72	0.52
28:DE:31:CYS:HB3	28:DE:49:LEU:HB3	1.90	0.52
30:DG:173:LEU:HA	30:DG:176:LEU:HD12	1.91	0.52
9:AG:31:MET:SD	9:AG:34:GLY:HA2	2.49	0.52
25:DA:2683:C:H2'	25:DA:2684:U:C6	2.44	0.52
25:DA:2189:U:H2'	25:DA:2190:G:H8	1.75	0.52
5:AC:134:ILE:HD11	5:AC:153:VAL:HG22	1.92	0.52
24:CX:312:VAL:HG21	24:CX:327:VAL:HG21	1.92	0.52
29:BF:164:ARG:O	29:BF:168:ARG:HB2	2.09	0.52
37:DQ:63:LYS:HD3	46:DZ:175:VAL:HG21	1.92	0.52
25:BA:1034:G:C5	25:BA:1035:U:C4	2.97	0.52
4:CB:75:LYS:C	4:CB:75:LYS:HD3	2.30	0.52
44:DX:44:GLU:HG3	44:DX:50:LYS:HA	1.91	0.52
44:DX:7:VAL:HG13	44:DX:30:VAL:HG13	1.92	0.52
4:CB:70:PHE:O	4:CB:71:VAL:HG13	2.09	0.52
12:AJ:49:VAL:CG2	16:AN:41:ARG:HB2	2.39	0.52
24:CX:163:ARG:NH1	24:CX:204:LYS:HD3	2.23	0.52
13:AK:12:ARG:HG2	13:AK:13:GLN:N	2.21	0.52
38:BR:17:ARG:O	38:BR:20:LEU:HB3	2.09	0.52
34:BN:40:ASP:OD1	34:BN:42:GLU:HG2	2.09	0.52
15:AM:57:ARG:HH12	51:B4:60:GLU:HB2	1.75	0.52
27:DD:239:ARG:HB2	25:DA:2591:C:OP2	2.10	0.52
1:AA:939:G:H2'	1:AA:940:C:C6	2.45	0.52
1:CA:1493:A:C5	25:DA:1913:A:C5	2.98	0.52
24:CX:316:ARG:NE	24:CX:346:ARG:HH22	2.07	0.52
2:CZ:37:A:H2'	2:CZ:38:A:H8	1.74	0.52
13:CK:57:THR:HG22	13:CK:59:TYR:N	2.25	0.52
8:AF:53:ALA:HB3	8:AF:86:ARG:NH1	2.24	0.52
41:DU:18:LEU:HD21	41:DU:22:LYS:HE2	1.90	0.52
1:AA:1097:C:H2'	1:AA:1098:C:H6	1.73	0.52
25:DA:2113:U:H2'	25:DA:2114:A:C8	2.44	0.52
1:CA:429:U:H1'	1:CA:430:A:H5''	1.92	0.52
26:BB:16:G:H3'	26:BB:16:G:OP2	2.10	0.52
5:CC:92:ALA:HB2	5:CC:99:VAL:HG13	1.92	0.52
46:BZ:104:PHE:HA	46:BZ:139:VAL:HB	1.92	0.52
1:AA:25:C:H2'	1:AA:26:A:C8	2.44	0.52
25:BA:371:A:C8	25:BA:373:U:C2	2.98	0.52
36:DP:49:ARG:NH1	25:DA:666:G:H4'	2.25	0.52
1:AA:542:G:H2'	1:AA:543:C:H6	1.75	0.52
29:DF:74:ARG:HD3	25:DA:674:G:O2'	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:695:A:H2'	1:AA:696:A:C8	2.45	0.52
1:CA:843:U:H5'	1:CA:848:C:O4'	2.10	0.52
15:AM:60:VAL:HG13	15:AM:64:TRP:HE1	1.74	0.52
26:BB:70:C:H2'	26:BB:71:C:H6	1.75	0.52
4:AB:153:ARG:HB2	4:AB:153:ARG:NH1	2.25	0.52
25:BA:796:C:H2'	25:BA:797:C:C6	2.45	0.52
1:AA:438:G:H4'	1:AA:439:A:OP1	2.09	0.52
1:AA:1073:U:H2'	1:AA:1074:G:C8	2.44	0.52
29:BF:80:ALA:O	29:BF:83:PHE:HB2	2.08	0.52
7:CE:6:PHE:CD2	7:CE:36:ASP:HB3	2.35	0.52
5:AC:58:GLU:HB2	5:AC:65:ALA:HB3	1.91	0.52
31:DH:101:ARG:HB2	31:DH:117:PRO:HG3	1.92	0.52
41:BU:81:HIS:O	41:BU:85:LYS:HB2	2.09	0.52
25:DA:2379:G:H2'	25:DA:2380:C:C6	2.45	0.52
48:B1:27:GLU:HB3	48:B1:33:LYS:HG3	1.90	0.52
49:B2:46:GLN:HB2	49:B2:49:LYS:NZ	2.25	0.52
1:CA:237:C:H5''	19:CQ:25:ARG:CZ	2.39	0.52
1:CA:256:U:H2'	1:CA:257:G:H8	1.75	0.52
1:CA:394:G:C4	1:CA:395:C:C5	2.97	0.52
25:DA:2194:G:H2'	25:DA:2195:C:C6	2.44	0.52
26:BB:31:C:H4'	30:BG:29:TRP:CH2	2.45	0.52
1:CA:1316:G:O2'	16:CN:18:VAL:HG21	2.10	0.52
36:DP:26:GLY:HA2	36:DP:30:THR:HG23	1.90	0.52
46:DZ:110:GLY:HA2	46:DZ:146:ILE:HG23	1.92	0.52
1:AA:151:A:H2'	1:AA:152:A:O4'	2.10	0.52
1:AA:1465:C:H2'	1:AA:1466:C:O4'	2.09	0.52
1:CA:1338:G:H21	2:CY:41:C:H1'	1.74	0.52
25:BA:1360:A:H5'	25:BA:1361:G:OP2	2.09	0.52
5:CC:134:ILE:HD11	5:CC:153:VAL:HG22	1.91	0.52
30:BG:173:LEU:HA	30:BG:176:LEU:HD12	1.91	0.52
34:BN:160:LYS:HD2	34:BN:161:LEU:H	1.75	0.52
7:CE:149:GLU:O	7:CE:153:LYS:HB2	2.10	0.52
31:DH:103:LEU:H	31:DH:103:LEU:HD23	1.75	0.52
35:BO:53:LYS:N	35:BO:53:LYS:HD2	2.25	0.52
25:BA:2817:G:H2'	25:BA:2818:G:O4'	2.10	0.52
26:DB:60:C:H2'	26:DB:61:G:H8	1.75	0.52
44:DX:40:LYS:HD2	44:DX:51:VAL:HB	1.92	0.52
27:DD:246:PRO:HB2	27:DD:255:LYS:HB3	1.92	0.52
42:DV:22:VAL:CG1	42:DV:23:GLU:H	2.19	0.52
29:DF:80:ALA:HB3	29:DF:83:PHE:HD1	1.74	0.52
1:CA:522:C:N4	1:CA:528:C:H42	2.06	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:CL:84:ILE:HG23	14:CL:97:TYR:HB3	1.92	0.52
49:D2:17:SER:CB	49:D2:18:PRO:CD	2.86	0.52
51:D4:42:CYS:SG	51:D4:46:ASN:HB3	2.50	0.52
43:DW:18:ARG:HG2	43:DW:76:VAL:CG1	2.39	0.52
1:AA:1080:A:H5''	1:AA:1081:G:OP2	2.10	0.52
43:BW:18:ARG:HG2	43:BW:76:VAL:CG1	2.40	0.52
34:DN:36:TRP:HB2	34:DN:156:GLN:HB2	1.92	0.52
30:BG:133:LEU:HD23	30:BG:133:LEU:H	1.74	0.52
1:AA:176:C:H2'	1:AA:177:C:C6	2.45	0.52
1:AA:176:C:H5''	22:AT:29:LYS:HZ1	1.73	0.52
29:DF:150:GLY:HA2	29:DF:172:TRP:CZ3	2.44	0.52
25:BA:2468:G:H5'	37:BQ:120:ILE:HD12	1.92	0.52
2:AZ:37:A:H2'	2:AZ:38:A:H8	1.75	0.52
34:BN:53:ILE:HG23	34:BN:75:VAL:HG11	1.92	0.52
35:BO:106:LEU:HD12	35:BO:106:LEU:H	1.75	0.52
25:DA:2807:G:N1	25:DA:2893:G:O6	2.43	0.52
1:CA:1258:G:H2'	1:CA:1259:C:C6	2.45	0.52
1:AA:542:G:H5'	6:AD:41:GLY:CA	2.40	0.52
26:DB:70:C:H2'	26:DB:71:C:H6	1.74	0.52
49:D2:59:ARG:HA	49:D2:62:THR:HB	1.90	0.52
1:CA:539:A:H2'	1:CA:540:G:C8	2.45	0.52
25:BA:289:A:H2'	25:BA:290:G:O4'	2.09	0.52
25:BA:6:A:H2'	25:BA:7:G:C8	2.44	0.52
49:D2:15:LYS:HE2	49:D2:15:LYS:HA	1.92	0.52
2:AZ:33:U:H4'	9:AG:84:ASN:HD22	1.74	0.52
25:BA:2189:U:H2'	25:BA:2190:G:H8	1.75	0.52
25:DA:1842:G:H2'	25:DA:1843:C:C6	2.45	0.51
44:BX:40:LYS:O	44:BX:44:GLU:HB2	2.10	0.51
44:BX:44:GLU:HG3	44:BX:50:LYS:HA	1.91	0.51
48:D1:11:ARG:HG3	48:D1:62:VAL:CA	2.40	0.51
1:AA:522:C:N4	1:AA:528:C:H42	2.08	0.51
12:CJ:49:VAL:CG2	16:CN:41:ARG:HB2	2.39	0.51
52:B5:4:HIS:N	52:B5:5:PRO:HD2	2.25	0.51
29:BF:102:PRO:O	29:BF:106:ARG:HG2	2.09	0.51
25:BA:1190:G:P	36:BP:32:THR:HG21	2.50	0.51
29:DF:45:ARG:HD2	25:DA:443:A:C6	2.45	0.51
39:DS:21:THR:HG21	25:DA:2378:A:O2'	2.09	0.51
15:CM:12:ASN:HA	15:CM:46:LYS:HE2	1.91	0.51
25:BA:2502:G:H5'	25:BA:2503:A:C5'	2.40	0.51
25:BA:94:G:H21	49:B2:47:ASN:HD22	1.58	0.51
19:CQ:17:LYS:HE3	19:CQ:47:PRO:HA	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AC:6:HIS:ND1	16:AN:49:HIS:HB3	2.25	0.51
34:BN:36:TRP:HB2	34:BN:156:GLN:HB2	1.91	0.51
49:D2:47:ASN:ND2	25:DA:94:G:N2	2.58	0.51
12:AJ:74:ILE:HG12	12:AJ:74:ILE:O	2.09	0.51
1:CA:191(F):U:H2'	1:CA:191(G):G:C8	2.44	0.51
25:DA:2468:G:N2	25:DA:2481:G:H2'	2.25	0.51
12:CJ:62:HIS:HD2	16:CN:59:ALA:HB3	1.74	0.51
1:CA:259:G:H2'	1:CA:260:G:C8	2.45	0.51
25:BA:2291:U:H2'	25:BA:2292:C:C6	2.45	0.51
2:AZ:18:G:N2	2:AZ:57:A:H2'	2.25	0.51
41:DU:27:LEU:HD12	25:DA:2019:A:H5''	1.90	0.51
26:BB:44:G:H1'	26:BB:47:C:N4	2.25	0.51
1:AA:843:U:H5'	1:AA:848:C:O4'	2.10	0.51
25:BA:2128:C:H2'	25:BA:2129:C:C6	2.45	0.51
25:BA:740:U:H2'	25:BA:741:G:C8	2.45	0.51
1:AA:1528:U:H6	1:AA:1528:U:H5''	1.75	0.51
5:AC:52:LEU:HD23	5:AC:52:LEU:H	1.75	0.51
45:DY:75:ILE:HD11	45:DY:79:CYS:HA	1.92	0.51
25:BA:2626:C:H2'	25:BA:2627:G:O4'	2.10	0.51
25:BA:2393:A:C5'	36:BP:62:LEU:HD12	2.39	0.51
5:AC:23:TYR:HA	12:AJ:11:PHE:CE1	2.45	0.51
25:DA:941:A:H2'	25:DA:942:G:O4'	2.10	0.51
25:DA:2592:G:C2	25:DA:2603:G:C2	2.98	0.51
36:DP:50:ARG:HG2	36:DP:50:ARG:O	2.08	0.51
25:BA:1130:U:O2'	25:BA:1131:G:H5''	2.11	0.51
25:BA:2305:A:H3'	25:BA:2306:C:H5''	1.92	0.51
25:BA:1952:A:C6	25:BA:1953:A:N1	2.79	0.51
25:BA:1980:G:H8	25:BA:1980:G:H5''	1.75	0.51
5:CC:6:HIS:ND1	16:CN:49:HIS:HB3	2.25	0.51
30:DG:133:LEU:HD23	30:DG:133:LEU:H	1.74	0.51
25:DA:919:G:H5''	26:DB:81:G:H1'	1.92	0.51
35:BO:104:ARG:NH1	35:BO:104:ARG:HB3	2.25	0.51
9:AG:42:ILE:O	9:AG:45:ASP:HB2	2.10	0.51
34:DN:80:ALA:HB3	34:DN:147:ALA:HB2	1.92	0.51
24:CX:325:GLU:HG3	24:CX:326:GLY:N	2.24	0.51
25:DA:2039:C:O2'	25:DA:2040:C:H5'	2.10	0.51
25:BA:2807:G:N1	25:BA:2893:G:O6	2.43	0.51
25:BA:2301:C:H2'	25:BA:2302:G:C8	2.44	0.51
1:AA:1258:G:H2'	1:AA:1259:C:C6	2.45	0.51
5:AC:13:GLY:HA3	16:AN:57:ARG:NE	2.25	0.51
1:CA:1161:C:H2'	1:CA:1162:C:C6	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AX:208:GLU:O	24:AX:210:PHE:N	2.43	0.51
25:DA:2131:G:H5'	25:DA:2133:G:O4'	2.11	0.51
25:BA:2345:G:N3	25:BA:2381:C:H2'	2.25	0.51
1:AA:551:U:H2'	1:AA:552:U:C6	2.45	0.51
25:BA:273(A):G:H1	25:BA:364:C:H42	1.58	0.51
1:AA:784:C:H4'	25:BA:1837:C:OP1	2.10	0.51
40:DT:29:ARG:HD3	40:DT:46:GLU:OE1	2.11	0.51
25:DA:286:C:H2'	25:DA:287:C:C6	2.45	0.51
44:BX:36:LYS:HE3	44:BX:54:VAL:O	2.10	0.51
43:BW:31:GLU:O	43:BW:35:ILE:HG13	2.10	0.51
25:BA:1264:G:H8	25:BA:1264:G:O5'	1.93	0.51
43:DW:103:ILE:H	43:DW:103:ILE:HD12	1.75	0.51
1:AA:524:G:H2'	1:AA:525:C:C6	2.45	0.51
46:BZ:146:ILE:HA	46:BZ:174:VAL:HB	1.91	0.51
2:CZ:11:A:H2'	2:CZ:12:G:C8	2.46	0.51
11:CI:4:TYR:CE2	11:CI:88:TYR:HB2	2.45	0.51
1:AA:1286:A:N6	1:AA:1354:C:H5''	2.26	0.51
28:BE:84:PHE:CE2	28:BE:86:PRO:HG3	2.45	0.51
24:AX:237:SER:CB	24:AX:258:GLN:HB2	2.39	0.51
1:AA:17:U:H2'	1:AA:18:C:H6	1.75	0.51
25:BA:973:A:OP2	42:BV:78:LYS:NZ	2.42	0.51
39:DS:26:LEU:O	39:DS:88:ASP:HB3	2.10	0.51
17:CO:45:VAL:HG23	17:CO:46:HIS:ND1	2.25	0.51
25:DA:270(R):C:O2'	25:DA:270(S):G:H5'	2.10	0.51
49:D2:35:LEU:HD12	49:D2:53:LEU:HD12	1.92	0.51
41:DU:40:PHE:HB3	42:DV:75:PHE:CD1	2.45	0.51
28:BE:184:VAL:HG12	28:BE:185:LYS:H	1.74	0.51
45:BY:20:TYR:CE1	45:BY:42:VAL:HA	2.46	0.51
44:BX:31:HIS:HD2	44:BX:33:LYS:O	1.93	0.51
24:AX:325:GLU:HG3	24:AX:326:GLY:N	2.25	0.51
48:B1:20:ARG:HB2	48:B1:20:ARG:HH11	1.75	0.51
29:BF:14:PRO:HD3	29:BF:128:ALA:HB2	1.92	0.51
28:DE:117:MET:HE2	28:DE:124:GLY:HA3	1.91	0.51
25:DA:755:C:H2'	25:DA:756:C:H6	1.75	0.51
25:BA:364:C:H6	25:BA:364:C:H5'	1.75	0.51
1:CA:25:C:H2'	1:CA:26:A:C8	2.45	0.51
29:DF:65:TRP:CZ3	29:DF:75:HIS:HD2	2.29	0.51
27:BD:186:HIS:CD2	27:BD:188:GLU:H	2.28	0.51
10:CH:82:HIS:HD2	10:CH:138:TRP:NE1	2.07	0.51
25:BA:863:A:H2'	25:BA:864:G:C8	2.44	0.51
5:CC:52:LEU:HD23	5:CC:52:LEU:H	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:718:G:C8	13:CK:116:HIS:HB3	2.46	0.51
5:AC:92:ALA:HB2	5:AC:99:VAL:HG13	1.93	0.51
15:CM:60:VAL:HG13	15:CM:64:TRP:HE1	1.74	0.51
11:AI:4:TYR:CE2	11:AI:88:TYR:HB2	2.45	0.51
11:AI:5:TYR:HA	11:AI:17:VAL:O	2.11	0.51
37:BQ:43:THR:HA	37:BQ:94:VAL:HG12	1.92	0.51
25:DA:1075:C:H2'	25:DA:1076:C:H6	1.67	0.51
30:DG:97:ASP:O	30:DG:101:ILE:HG23	2.09	0.51
49:B2:21:LEU:HD12	49:B2:64:LEU:HB3	1.91	0.51
24:CX:237:SER:CB	24:CX:258:GLN:HB2	2.39	0.51
31:DH:101:ARG:NE	31:DH:101:ARG:H	2.05	0.51
11:AI:99:LEU:HD12	11:AI:101:PHE:HE2	1.74	0.51
1:CA:939:G:H2'	1:CA:940:C:C6	2.45	0.51
36:BP:115:LEU:HA	36:BP:134:ALA:CB	2.39	0.51
37:DQ:141:GLN:HG2	46:DZ:72:ARG:HA	1.92	0.51
37:BQ:141:GLN:HG2	46:BZ:72:ARG:HA	1.92	0.51
26:DB:8:U:H2'	26:DB:9:G:C8	2.46	0.51
19:CQ:45:HIS:HB2	19:CQ:69:LYS:HE2	1.93	0.51
36:DP:16:ARG:HE	36:DP:17:LYS:N	2.08	0.51
24:CX:342:ALA:O	24:CX:346:ARG:HG3	2.10	0.51
49:B2:32:LEU:HA	49:B2:53:LEU:HD13	1.91	0.51
4:AB:20:GLU:HA	4:AB:20:GLU:OE1	2.11	0.51
25:BA:2194:G:H2'	25:BA:2195:C:C6	2.44	0.51
25:DA:2817:G:H2'	25:DA:2818:G:O4'	2.10	0.51
4:AB:27:LYS:O	4:AB:30:ARG:HG2	2.11	0.51
1:AA:731:G:OP1	1:AA:766:A:H1'	2.10	0.51
25:DA:414:C:H2'	25:DA:415:A:C8	2.46	0.51
1:CA:1435:G:H2'	1:CA:1436:U:C6	2.46	0.51
10:AH:73:ASP:O	10:AH:75:ARG:HG2	2.11	0.51
5:AC:184:TYR:HE2	5:AC:186:PHE:HB2	1.74	0.51
25:DA:1570:A:C6	25:DA:1571:A:C6	2.98	0.51
19:CQ:40:LYS:HD2	19:CQ:42:TYR:CE1	2.45	0.51
1:CA:278:G:OP2	19:CQ:41:LYS:HE2	2.11	0.51
1:AA:598:U:H2'	1:AA:599:C:C6	2.45	0.51
25:BA:414:C:H2'	25:BA:415:A:C8	2.46	0.51
1:CA:1015:A:H1'	1:CA:1218:C:O2'	2.11	0.51
18:AP:23:ASP:O	18:AP:26:ARG:HB2	2.10	0.51
31:DH:29:PRO:HD2	31:DH:79:VAL:O	2.11	0.51
25:BA:2623:G:H5'	25:BA:2826:A:H1'	1.93	0.51
45:BY:75:ILE:HD11	45:BY:79:CYS:HA	1.90	0.51
41:DU:92:ARG:HB3	42:DV:11:GLN:OE1	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:CI:5:TYR:HA	11:CI:17:VAL:O	2.10	0.51
36:DP:32:THR:HG21	25:DA:1190:G:P	2.51	0.51
1:CA:1286:A:N6	1:CA:1354:C:H5''	2.25	0.51
1:CA:891:U:H2'	1:CA:892:A:C8	2.42	0.51
36:DP:45:LEU:CD2	36:DP:46:LYS:H	2.24	0.51
42:DV:78:LYS:NZ	25:DA:973:A:OP2	2.42	0.51
24:AX:177:VAL:HG12	24:AX:301:LYS:HB2	1.93	0.51
25:BA:1858:G:O2'	25:BA:1859:A:H8	1.94	0.51
32:BI:133:HIS:CD2	32:BI:135:GLU:HG2	2.45	0.51
25:DA:1483:G:H2'	25:DA:1484:G:H8	1.72	0.51
49:D2:47:ASN:ND2	25:DA:61:G:C5	2.78	0.51
25:BA:828:U:H4'	25:BA:831:G:N1	2.26	0.51
37:DQ:120:ILE:HD12	25:DA:2468:G:H5'	1.91	0.51
25:BA:713:G:H2'	25:BA:714:U:H6	1.74	0.51
14:CL:45:LYS:HG3	14:CL:93:PRO:HD3	1.93	0.51
25:BA:481:G:O2'	25:BA:507:A:N6	2.44	0.51
37:DQ:13:GLN:CG	25:DA:954:G:H5''	2.40	0.51
25:BA:1900:A:N1	25:BA:1970:A:C6	2.79	0.51
25:DA:1270:C:H5''	25:DA:1271:G:H5'	1.91	0.51
25:BA:2131:G:H5'	25:BA:2133:G:O4'	2.11	0.51
4:CB:137:ARG:O	4:CB:141:GLU:HG2	2.11	0.51
27:BD:70:TRP:CH2	27:BD:150:LYS:HA	2.45	0.51
2:CY:57:A:O2'	2:CY:58:A:H5'	2.10	0.51
25:BA:286:C:H2'	25:BA:287:C:C6	2.45	0.51
39:BS:40:ILE:HG12	39:BS:47:THR:OG1	2.10	0.51
6:AD:31:CYS:O	6:AD:32:ALA:HB3	2.10	0.51
17:AO:9:GLN:O	17:AO:13:GLN:HG2	2.11	0.51
4:AB:60:ASP:O	4:AB:64:ARG:HG2	2.10	0.51
5:CC:184:TYR:HE2	5:CC:186:PHE:HB2	1.74	0.51
22:AT:80:ARG:O	22:AT:84:LEU:HB2	2.10	0.51
25:DA:2128:C:H2'	25:DA:2129:C:C6	2.45	0.51
25:DA:2596:U:H2'	25:DA:2597:G:O4'	2.10	0.51
1:CA:353:A:H8	1:CA:353:A:H5'	1.74	0.51
25:BA:1889:A:H2'	25:BA:1890:A:C8	2.45	0.51
25:BA:609(A):A:H2'	25:BA:609(B):G:O4'	2.11	0.51
44:DX:89:ILE:HG13	44:DX:92:LEU:HD12	1.92	0.51
48:B1:46:LEU:HA	48:B1:63:ALA:HA	1.91	0.51
29:BF:63:LYS:HZ1	29:BF:67:GLN:NE2	2.01	0.51
45:BY:4:LYS:HD3	45:BY:4:LYS:N	2.25	0.51
25:DA:2626:C:H2'	25:DA:2627:G:O4'	2.10	0.51
17:AO:60:VAL:O	17:AO:63:ARG:HB3	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1664:A:H61	25:BA:1996:C:H42	1.58	0.51
25:BA:108:U:H2'	25:BA:109:G:C8	2.46	0.51
24:CX:112:ARG:HB2	24:CX:198:THR:CG2	2.41	0.51
24:CX:294:GLY:O	24:CX:297:GLU:HG3	2.11	0.51
34:DN:69:VAL:HG13	34:DN:71:MET:HG3	1.91	0.51
24:CX:306:ASN:OD1	24:CX:308:PRO:HG2	2.09	0.51
25:BA:1655:A:H1'	28:BE:113:PHE:HD2	1.75	0.51
25:BA:705:A:H1'	27:BD:9:TYR:CE1	2.46	0.51
25:DA:1833:U:H2'	25:DA:1834:U:C6	2.46	0.51
39:BS:26:LEU:O	39:BS:88:ASP:HB3	2.09	0.51
27:BD:133:LEU:HD22	27:BD:173:VAL:HG11	1.93	0.51
31:BH:13:LYS:HA	31:BH:13:LYS:HE2	1.92	0.51
9:CG:31:MET:SD	9:CG:34:GLY:HA2	2.50	0.51
1:CA:151:A:H2'	1:CA:152:A:O4'	2.10	0.51
1:CA:1073:U:H2'	1:CA:1074:G:C8	2.45	0.51
41:BU:26:GLY:O	41:BU:30:LYS:HG2	2.11	0.51
1:CA:551:U:H2'	1:CA:552:U:C6	2.46	0.51
26:BB:67:G:N2	26:BB:68:C:C2	2.79	0.51
25:BA:212:G:O2'	25:BA:213:A:H5'	2.11	0.51
6:AD:23:GLY:HA3	6:AD:112:VAL:HG22	1.93	0.51
5:CC:175:LEU:O	5:CC:175:LEU:HD23	2.10	0.51
46:DZ:104:PHE:HA	46:DZ:139:VAL:HB	1.93	0.51
22:CT:85:MET:HB2	22:CT:104:LEU:HD21	1.93	0.51
31:BH:29:PRO:HD2	31:BH:79:VAL:O	2.10	0.51
37:BQ:59:ARG:HA	46:BZ:179:ASP:OD2	2.10	0.51
25:BA:2557:G:H2'	25:BA:2558:C:C6	2.45	0.51
25:DA:1841:U:H2'	25:DA:1842:G:H8	1.75	0.51
29:BF:80:ALA:HB3	29:BF:83:PHE:HD1	1.75	0.51
7:CE:79:GLU:OE1	10:CH:104:ARG:HG3	2.10	0.51
25:BA:941:A:H2'	25:BA:942:G:O4'	2.10	0.51
49:B2:17:SER:CB	49:B2:18:PRO:CD	2.87	0.51
27:BD:125:ILE:HD12	27:BD:125:ILE:N	2.23	0.51
36:BP:45:LEU:CD2	36:BP:46:LYS:H	2.23	0.51
25:DA:1996:C:H4'	25:DA:1997:G:H5'	1.93	0.51
25:BA:1785:A:H2'	25:BA:1786:A:H5''	1.91	0.51
25:DA:1130:U:O2'	25:DA:1131:G:H5''	2.11	0.51
28:BE:169:ASN:CG	28:BE:201:THR:HG21	2.31	0.51
29:BF:150:GLY:HA2	29:BF:172:TRP:CZ3	2.46	0.51
25:BA:380:U:H4'	48:B1:21:ARG:O	2.10	0.51
25:BA:380:U:O2'	48:B1:20:ARG:HB3	2.11	0.51
1:AA:358:U:H2'	1:AA:359:U:C6	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:807:U:H2'	25:DA:808:G:C8	2.46	0.51
1:CA:328:C:H4'	1:CA:329:A:C5'	2.41	0.51
4:AB:137:ARG:O	4:AB:141:GLU:HG2	2.10	0.51
34:DN:86:THR:O	34:DN:89:LYS:HG2	2.11	0.51
29:BF:164:ARG:HH22	29:BF:177:ALA:HA	1.76	0.51
25:DA:2131:G:O5'	25:DA:2131:G:H8	1.93	0.51
4:AB:25:ASN:HD22	4:AB:25:ASN:N	2.08	0.51
1:AA:1452:C:H4'	1:AA:1453:G:C4	2.46	0.51
1:AA:180:U:H2'	1:AA:181:G:H5''	1.93	0.51
43:DW:57:ASN:HD21	25:DA:494:G:N2	2.08	0.51
25:BA:1197:G:H5'	25:BA:1227:G:O2'	2.10	0.51
37:BQ:68:ILE:HG23	37:BQ:103:MET:HA	1.93	0.51
41:DU:10:ARG:HD2	25:DA:583:G:OP2	2.10	0.51
35:DO:53:LYS:N	35:DO:53:LYS:HD2	2.25	0.51
6:CD:166:LYS:HD2	6:CD:166:LYS:O	2.10	0.51
48:D1:42:GLN:OE1	25:DA:396:G:H1'	2.10	0.51
29:DF:63:LYS:HZ1	29:DF:67:GLN:NE2	2.01	0.51
5:CC:23:TYR:HA	12:CJ:11:PHE:CE1	2.45	0.51
5:CC:125:GLU:OE2	5:CC:189:ALA:HA	2.11	0.51
18:AP:20:VAL:HG21	18:AP:32:TYR:CG	2.45	0.51
25:DA:2105:C:H2'	25:DA:2106:G:H8	1.75	0.51
1:AA:427:U:C4	1:AA:428:G:C6	2.99	0.51
1:AA:413:G:O6	6:AD:35:ARG:HD3	2.10	0.51
24:CX:283:GLU:OE1	24:CX:283:GLU:HA	2.10	0.51
29:DF:46:ARG:HH22	25:DA:441:U:H1'	1.75	0.51
34:DN:53:ILE:HG23	34:DN:75:VAL:HG11	1.92	0.51
1:AA:715:A:H2'	1:AA:716:A:H8	1.76	0.51
12:AJ:30:SER:HB2	12:AJ:80:LYS:HG2	1.92	0.51
24:CX:234:THR:HG21	25:DA:2452:C:H4'	1.93	0.51
40:BT:96:ARG:HG3	40:BT:97:ALA:N	2.26	0.51
10:AH:9:MET:HG3	10:AH:26:VAL:HG21	1.93	0.51
1:AA:373:A:H2'	1:AA:374:A:H8	1.76	0.51
35:BO:88:ASN:OD1	35:BO:89:ASN:N	2.44	0.51
1:AA:1015:A:H1'	1:AA:1218:C:O2'	2.11	0.51
25:DA:481:G:O2'	25:DA:507:A:N6	2.44	0.51
24:CX:313:THR:HG22	24:CX:320:THR:OG1	2.10	0.51
25:BA:396:G:H1'	48:B1:42:GLN:OE1	2.11	0.51
35:DO:88:ASN:OD1	35:DO:89:ASN:N	2.43	0.51
40:DT:22:PHE:N	40:DT:22:PHE:CD2	2.79	0.51
1:AA:1435:G:H2'	1:AA:1436:U:C6	2.46	0.51
19:AQ:40:LYS:HD2	19:AQ:42:TYR:CE1	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:CP:23:ASP:O	18:CP:26:ARG:HB2	2.10	0.51
1:CA:142:G:H1	1:CA:221:C:H42	1.59	0.51
19:CQ:99:SER:O	19:CQ:100:LYS:HD3	2.11	0.51
25:BA:1826:G:H2'	25:BA:1827:C:H6	1.76	0.51
36:DP:125:VAL:O	36:DP:145:PRO:HD2	2.11	0.51
37:BQ:30:GLY:CA	37:BQ:107:ALA:HB2	2.36	0.51
36:BP:125:VAL:O	36:BP:145:PRO:HD2	2.11	0.51
14:CL:44:PRO:CG	14:CL:50:ALA:H	2.24	0.51
36:BP:16:ARG:HE	36:BP:17:LYS:N	2.09	0.51
25:BA:1407:C:H2'	25:BA:1408:C:C6	2.45	0.51
30:DG:64:THR:HG23	30:DG:66:GLN:N	2.24	0.51
32:BI:67:ARG:O	32:BI:71:ILE:HG22	2.11	0.51
25:DA:1664:A:H61	25:DA:1996:C:H42	1.56	0.51
1:AA:668:G:H1'	17:AO:46:HIS:CD2	2.44	0.51
1:CA:668:G:H1'	17:CO:46:HIS:CD2	2.43	0.51
9:AG:15:ASP:HB3	9:AG:19:GLY:H	1.76	0.51
24:AX:316:ARG:NE	24:AX:346:ARG:HH22	2.07	0.51
1:CA:125:U:H2'	1:CA:126:G:H8	1.76	0.51
25:BA:270(G):U:H2'	25:BA:270(H):C:C6	2.46	0.51
25:DA:2543:G:H2'	25:DA:2544:G:C8	2.46	0.51
14:CL:46:LYS:CB	14:CL:47:PRO:HD3	2.41	0.51
1:AA:620:C:C2	6:AD:135:LEU:HG	2.46	0.51
25:BA:2469:A:H5'	25:BA:2470:G:OP2	2.10	0.51
1:AA:1327:C:H2'	1:AA:1328:C:H6	1.74	0.51
25:DA:55:G:H2'	25:DA:56:A:C8	2.45	0.51
37:DQ:66:ILE:HG22	37:DQ:104:PHE:HD2	1.74	0.51
3:CV:15:A:H8	3:CV:15:A:O5'	1.94	0.51
25:BA:2379:G:H2'	25:BA:2380:C:C6	2.46	0.51
25:BA:2378:A:O2'	39:BS:21:THR:HG21	2.10	0.51
24:CX:230:GLN:O	24:CX:234:THR:HG22	2.11	0.51
25:DA:1529:A:H3'	25:DA:1530:G:C8	2.46	0.51
30:DG:27:ASN:HD21	30:DG:29:TRP:HD1	1.58	0.51
25:BA:10:G:C8	25:BA:11:G:C8	2.99	0.51
1:CA:1517:G:H1'	25:DA:1919:A:O3'	2.10	0.51
1:CA:1253:G:H2'	1:CA:1254:C:C6	2.46	0.51
46:BZ:8:TYR:HB2	46:BZ:38:TYR:CZ	2.45	0.51
1:AA:751:U:H2'	1:AA:752:G:O4'	2.11	0.51
25:BA:1754:C:H5''	40:BT:113:LYS:HD3	1.92	0.51
25:DA:1429:G:H2'	25:DA:1430:C:C6	2.46	0.51
1:CA:180:U:H2'	1:CA:181:G:H5''	1.92	0.51
1:CA:373:A:H2'	1:CA:374:A:H8	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DS:40:ILE:HG12	39:DS:47:THR:OG1	2.11	0.51
2:AY:26:G:H2'	2:AY:27:U:H6	1.75	0.51
30:BG:18:GLU:HG3	30:BG:21:ARG:HH21	1.75	0.51
25:BA:1536:A:O5'	25:BA:1536:A:H8	1.94	0.51
6:AD:166:LYS:HD2	6:AD:166:LYS:O	2.10	0.51
28:BE:1:MET:HB3	28:BE:83:ASP:O	2.11	0.51
25:DA:765:G:H2'	25:DA:766:C:C6	2.46	0.51
1:AA:1518:A:H2'	1:AA:1519:A:C8	2.46	0.51
7:AE:122:GLU:O	7:AE:123:LEU:HD23	2.11	0.51
41:DU:88:ILE:HB	41:DU:90:VAL:CG1	2.35	0.51
42:DV:38:LEU:O	42:DV:52:VAL:HG12	2.10	0.51
7:AE:79:GLU:OE1	10:AH:104:ARG:HG3	2.11	0.51
1:CA:528:C:H41	14:CL:48:ASN:ND2	2.09	0.51
25:DA:1407:C:H2'	25:DA:1408:C:C6	2.46	0.51
30:DG:53:LEU:HD13	30:DG:88:ILE:HG12	1.93	0.51
49:D2:13:ALA:O	49:D2:17:SER:HA	2.11	0.51
25:BA:670:A:H4'	25:BA:671:C:H5'	1.92	0.51
25:BA:671:C:N4	25:BA:809:G:H1	2.08	0.51
25:BA:1404:C:H2'	25:BA:1405:U:H6	1.75	0.51
24:AX:163:ARG:NH1	24:AX:204:LYS:HD3	2.24	0.51
24:CX:177:VAL:HG12	24:CX:301:LYS:HB2	1.92	0.51
25:DA:1784:A:H4'	25:DA:1785:A:O5'	2.11	0.51
32:DI:133:HIS:CD2	32:DI:135:GLU:HG2	2.46	0.51
38:DR:11:ASN:OD1	38:DR:12:ARG:N	2.41	0.51
41:BU:40:PHE:HB3	42:BV:75:PHE:CD1	2.46	0.51
1:CA:619:U:C2	6:CD:135:LEU:HD21	2.46	0.51
31:DH:143:GLN:HE22	25:DA:2744:G:H21	1.59	0.51
13:CK:59:TYR:CE2	13:CK:63:LEU:HD11	2.46	0.51
1:AA:1126:U:H2'	1:AA:1127:G:O4'	2.11	0.51
33:BJ:15:GLU:O	33:BJ:19:ARG:HG3	2.11	0.51
25:DA:1292:U:H2'	25:DA:1293:C:H6	1.76	0.51
1:AA:328:C:H4'	1:AA:329:A:C5'	2.41	0.51
1:AA:429:U:H1'	1:AA:430:A:H5''	1.93	0.51
46:BZ:110:GLY:HA2	46:BZ:146:ILE:HG23	1.93	0.51
34:BN:86:THR:O	34:BN:89:LYS:HG2	2.11	0.51
1:CA:1070:U:H2'	1:CA:1071:C:C6	2.46	0.51
25:DA:2557:G:H2'	25:DA:2558:C:C6	2.46	0.51
25:DA:257:A:H2'	25:DA:258:G:O4'	2.11	0.51
25:BA:2596:U:H2'	25:BA:2597:G:O4'	2.10	0.51
28:DE:1:MET:HB3	28:DE:83:ASP:O	2.11	0.51
10:AH:8:ASP:O	10:AH:12:ARG:HG2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2327:A:H2'	25:DA:2328:A:C8	2.46	0.51
43:DW:31:GLU:O	43:DW:35:ILE:HG13	2.11	0.51
25:DA:298:G:H8	25:DA:298:G:O5'	1.94	0.51
14:AL:44:PRO:CG	14:AL:50:ALA:H	2.24	0.50
40:BT:51:ARG:HB3	40:BT:62:THR:HG23	1.93	0.50
49:B2:14:ARG:HH21	49:B2:67:LYS:HD2	1.76	0.50
46:DZ:72:ARG:HD2	26:DB:103:U:H4'	1.92	0.50
26:BB:8:U:H2'	26:BB:9:G:C8	2.46	0.50
4:AB:24:TRP:HZ3	4:AB:26:PRO:HA	1.76	0.50
46:DZ:28:MET:HE3	46:DZ:37:VAL:HG11	1.93	0.50
12:CJ:74:ILE:HG12	12:CJ:74:ILE:O	2.10	0.50
25:BA:55:G:H2'	25:BA:56:A:C8	2.46	0.50
41:DU:59:ARG:O	41:DU:63:VAL:HG23	2.10	0.50
1:AA:7:G:H21	7:AE:121:LYS:HE3	1.76	0.50
1:CA:1126:U:H2'	1:CA:1127:G:O4'	2.11	0.50
25:BA:765:G:H2'	25:BA:766:C:H6	1.76	0.50
25:DA:329:G:H4'	25:DA:330:A:OP2	2.11	0.50
1:AA:9:G:C6	1:AA:26:A:N6	2.79	0.50
25:BA:2556:C:H2'	25:BA:2557:G:O4'	2.11	0.50
34:BN:85:VAL:HG22	34:BN:89:LYS:HG3	1.92	0.50
25:DA:2099:U:H2'	25:DA:2100:G:H8	1.76	0.50
1:AA:85:U:H2'	1:AA:86:U:O4'	2.11	0.50
6:AD:8:VAL:HB	6:AD:21:LEU:HD22	1.93	0.50
2:AZ:11:A:H2'	2:AZ:12:G:C8	2.46	0.50
5:AC:175:LEU:HD23	5:AC:175:LEU:O	2.10	0.50
1:CA:413:G:O6	6:CD:35:ARG:HD3	2.11	0.50
25:BA:1788:C:O2'	25:BA:1789:A:H5'	2.11	0.50
27:BD:231:HIS:ND1	27:BD:232:PRO:HD2	2.26	0.50
44:BX:40:LYS:HD2	44:BX:51:VAL:HB	1.93	0.50
51:B4:43:GLY:H	51:B4:60:GLU:HA	1.76	0.50
27:DD:9:TYR:CD2	27:DD:10:THR:HG22	2.46	0.50
25:DA:886:C:H3'	25:DA:886:C:C6	2.46	0.50
25:BA:1771:C:HO2'	25:BA:1786:A:H8	1.58	0.50
1:CA:828:A:H2'	1:CA:829:G:O4'	2.11	0.50
20:AR:45:SER:HB3	20:AR:51:LEU:CG	2.39	0.50
25:BA:1980:G:H5''	25:BA:1980:G:C8	2.46	0.50
20:CR:54:ARG:HD2	20:CR:54:ARG:H	1.76	0.50
14:AL:46:LYS:CB	14:AL:47:PRO:HD3	2.41	0.50
11:CI:113:LYS:H	11:CI:119:ALA:HA	1.76	0.50
11:AI:113:LYS:H	11:AI:119:ALA:HA	1.76	0.50
8:AF:61:LEU:HB3	8:AF:63:TYR:HE2	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AV:15:A:O5'	3:AV:15:A:H8	1.94	0.50
25:BA:2684:U:H3	25:BA:2727:G:H1'	1.76	0.50
40:DT:113:LYS:HD3	25:DA:1754:C:H5''	1.92	0.50
41:DU:79:PHE:HE1	41:DU:83:LEU:HD11	1.76	0.50
25:DA:10:G:C8	25:DA:11:G:C8	3.00	0.50
1:CA:1452:C:H4'	1:CA:1453:G:C4	2.46	0.50
31:BH:103:LEU:H	31:BH:103:LEU:HD23	1.76	0.50
25:BA:1570:A:C6	25:BA:1571:A:C6	3.00	0.50
25:BA:583:G:OP2	41:BU:10:ARG:HD2	2.11	0.50
55:D8:11:LYS:HB2	55:D8:61:LEU:HD22	1.93	0.50
21:CS:10:PHE:H	21:CS:10:PHE:HD1	1.60	0.50
40:BT:22:PHE:N	40:BT:22:PHE:CD2	2.79	0.50
25:DA:1826:G:H2'	25:DA:1827:C:H6	1.75	0.50
1:AA:1353:G:H2'	1:AA:1354:C:H6	1.76	0.50
41:DU:92:ARG:CZ	25:DA:996:A:H4'	2.40	0.50
1:AA:980:C:H5'	1:AA:981:U:H5	1.75	0.50
5:CC:35:GLU:HA	5:CC:38:ARG:HG2	1.94	0.50
40:BT:50:ILE:HA	40:BT:99:LEU:CD1	2.41	0.50
25:BA:2592:G:C2	25:BA:2603:G:C2	2.98	0.50
1:CA:1228:C:H2'	1:CA:1229:A:C8	2.38	0.50
25:BA:680:G:C6	25:BA:681:G:C6	2.99	0.50
1:CA:1493:A:C5	25:DA:1913:A:C6	2.99	0.50
49:D2:46:GLN:HB2	49:D2:49:LYS:NZ	2.27	0.50
49:D2:56:GLN:O	49:D2:60:LEU:HG	2.12	0.50
25:DA:2819:G:H2'	25:DA:2821:A:N7	2.26	0.50
1:CA:779:C:O2'	1:CA:780:A:H5'	2.11	0.50
25:BA:2468:G:N2	25:BA:2481:G:H2'	2.25	0.50
1:CA:1203:C:H2'	1:CA:1204:A:C8	2.45	0.50
2:AZ:37:A:H2'	2:AZ:38:A:C8	2.45	0.50
13:AK:59:TYR:CE2	13:AK:63:LEU:HD11	2.46	0.50
1:CA:394:G:H2'	1:CA:395:C:H6	1.75	0.50
25:DA:2345:G:N3	25:DA:2381:C:H2'	2.26	0.50
1:AA:1014:A:H1'	21:AS:34:TRP:HB2	1.92	0.50
1:AA:191(C):G:H2'	1:AA:191(D):U:C6	2.46	0.50
54:B7:47:ARG:O	54:B7:48:LYS:HB2	2.11	0.50
27:BD:72:LYS:HE3	27:BD:101:GLU:HB3	1.93	0.50
25:DA:2643:G:O2'	25:DA:2644:G:H5'	2.11	0.50
25:DA:609(A):A:H2'	25:DA:609(B):G:O4'	2.12	0.50
25:BA:2869:G:H2'	25:BA:2870:C:C6	2.47	0.50
19:CQ:59:ILE:CG2	19:CQ:71:PHE:HB3	2.42	0.50
30:DG:8:LYS:O	30:DG:12:TYR:HD1	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:718:G:C8	13:AK:116:HIS:HB3	2.46	0.50
5:AC:113:ALA:HB3	5:AC:114:PRO:HD3	1.93	0.50
25:BA:2336:A:H8	25:BA:2336:A:H5'	1.76	0.50
1:CA:598:U:H2'	1:CA:599:C:C6	2.45	0.50
25:DA:2507:C:H2'	25:DA:2508:G:O4'	2.10	0.50
14:AL:45:LYS:HG3	14:AL:93:PRO:HD3	1.92	0.50
25:DA:1945:G:H2'	25:DA:1946:U:C6	2.46	0.50
25:DA:589:C:H2'	25:DA:590:A:C8	2.47	0.50
19:AQ:59:ILE:CG2	19:AQ:71:PHE:HB3	2.41	0.50
37:DQ:20:ALA:HA	37:DQ:98:LYS:HB2	1.93	0.50
27:DD:209:ALA:HB2	25:DA:1790:C:O2'	2.12	0.50
25:BA:1824:G:O2'	25:BA:1825:A:H5'	2.11	0.50
27:BD:52:ARG:NH1	27:BD:249:PRO:HG2	2.26	0.50
44:BX:7:VAL:HG13	44:BX:30:VAL:HG13	1.93	0.50
27:BD:246:PRO:HB2	27:BD:255:LYS:HB3	1.91	0.50
30:BG:87:PRO:O	30:BG:88:ILE:HB	2.12	0.50
25:DA:1027:A:C2	25:DA:2488:A:H5'	2.46	0.50
4:CB:98:LEU:HB2	4:CB:101:MET:CG	2.41	0.50
25:BA:1189:A:H3'	25:BA:1190:G:C5'	2.38	0.50
25:BA:2747:G:H1	25:BA:2754:U:H2'	1.76	0.50
25:DA:2747:G:H1	25:DA:2754:U:H2'	1.76	0.50
1:CA:620:C:C2	6:CD:135:LEU:HG	2.45	0.50
25:BA:2744:G:H21	31:BH:143:GLN:HE22	1.59	0.50
24:CX:332:LEU:HD23	24:CX:332:LEU:H	1.76	0.50
13:AK:57:THR:HG22	13:AK:59:TYR:N	2.26	0.50
25:DA:1839:G:H5'	25:DA:1839:G:C8	2.47	0.50
11:AI:14:VAL:O	11:AI:65:VAL:HG23	2.11	0.50
1:AA:1147:C:O5'	1:AA:1147:C:H6	1.94	0.50
1:CA:1147:C:H6	1:CA:1147:C:O5'	1.94	0.50
1:CA:22:G:H2'	1:CA:23:C:H6	1.75	0.50
1:AA:89:U:H2'	1:AA:90:C:C6	2.47	0.50
4:CB:8:LYS:HA	4:CB:217:ARG:HH12	1.76	0.50
1:CA:9:G:C6	1:CA:26:A:N6	2.79	0.50
1:AA:278:G:OP2	19:AQ:41:LYS:HE2	2.11	0.50
1:CA:1518:A:H2'	1:CA:1519:A:C8	2.46	0.50
25:BA:257:A:H2'	25:BA:258:G:O4'	2.10	0.50
1:CA:894:G:H2'	1:CA:895:G:C8	2.47	0.50
38:DR:54:LEU:HD23	38:DR:62:ALA:HB1	1.94	0.50
30:BG:139:LEU:HD23	30:BG:149:VAL:HG21	1.93	0.50
55:D8:39:LYS:O	55:D8:43:GLN:HG2	2.11	0.50
32:BI:81:VAL:HG12	32:BI:82:ARG:H	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AB:8:LYS:HA	4:AB:217:ARG:HH12	1.76	0.50
4:AB:8:LYS:HG2	4:AB:217:ARG:NH1	2.25	0.50
25:BA:2087:G:H8	25:BA:2087:G:O5'	1.94	0.50
25:DA:1203:G:O6	25:DA:1204:A:N6	2.45	0.50
44:DX:40:LYS:CD	44:DX:51:VAL:HB	2.42	0.50
42:DV:4:ILE:HG22	42:DV:5:VAL:N	2.26	0.50
14:AL:51:LEU:HD12	14:AL:51:LEU:H	1.77	0.50
30:BG:86:MET:O	30:BG:87:PRO:O	2.30	0.50
1:AA:979:C:H3'	1:AA:980:C:C5'	2.38	0.50
6:CD:28:SER:HB3	6:CD:29:PRO:CD	2.40	0.50
46:DZ:56:VAL:HG22	46:DZ:70:LEU:HD22	1.93	0.50
1:CA:1308:U:OP1	15:CM:97:PRO:HA	2.12	0.50
13:AK:33:THR:HA	13:AK:40:ILE:HG12	1.93	0.50
38:DR:16:HIS:HE1	25:DA:1276:A:O2'	1.94	0.50
25:BA:61:G:C5	49:B2:47:ASN:ND2	2.79	0.50
25:DA:270(G):U:H2'	25:DA:270(H):C:C6	2.47	0.50
47:D0:32:ARG:C	47:D0:35:ASN:HD21	2.14	0.50
25:DA:1173:G:O2'	25:DA:1175:U:H6	1.95	0.50
25:BA:2819:G:H2'	25:BA:2821:A:N7	2.26	0.50
9:CG:42:ILE:O	9:CG:45:ASP:HB2	2.11	0.50
16:CN:4:LYS:O	16:CN:7:ILE:HG13	2.12	0.50
1:CA:1148:U:O3'	11:CI:14:VAL:HG11	2.10	0.50
37:DQ:81:VAL:O	37:DQ:82:ARG:HD3	2.11	0.50
35:DO:106:LEU:HD12	35:DO:106:LEU:H	1.76	0.50
25:DA:7:G:H2'	25:DA:8:A:C8	2.47	0.50
5:CC:13:GLY:HA3	16:CN:57:ARG:NE	2.26	0.50
1:AA:1161:C:H2'	1:AA:1162:C:C6	2.46	0.50
1:CA:1253:G:H2'	1:CA:1254:C:H6	1.76	0.50
1:AA:274:A:H4'	1:AA:275:G:OP1	2.12	0.50
1:AA:142:G:H1	1:AA:221:C:H42	1.58	0.50
25:DA:2178:C:H2'	25:DA:2179:C:C6	2.46	0.50
54:D7:19:ARG:NH2	25:DA:124:G:C6	2.79	0.50
41:DU:81:HIS:O	41:DU:85:LYS:HB2	2.10	0.50
51:D4:38:ALA:HA	51:D4:55:PRO:HA	1.92	0.50
19:CQ:54:GLY:HA3	19:CQ:82:MET:HE2	1.93	0.50
1:AA:1020:U:H2'	1:AA:1021:G:C8	2.47	0.50
25:DA:619:G:H5''	25:DA:620:G:OP2	2.11	0.50
25:DA:363(G):A:H5''	25:DA:364:C:OP1	2.11	0.50
1:AA:406:G:H2'	1:AA:407:G:H8	1.76	0.50
25:DA:371:A:C8	25:DA:373:U:C2	3.00	0.50
17:AO:5:LYS:N	17:AO:5:LYS:HD3	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2720:U:H2'	25:BA:2721:A:H8	1.77	0.50
25:BA:1001:A:H61	25:BA:1154:G:H1'	1.76	0.50
10:CH:8:ASP:O	10:CH:12:ARG:HG2	2.11	0.50
28:BE:192:ASN:N	28:BE:192:ASN:HD22	2.09	0.50
7:CE:51:VAL:O	7:CE:55:VAL:HG23	2.11	0.50
25:BA:2552:U:H2'	25:BA:2554:U:OP2	2.12	0.50
30:DG:68:PRO:O	26:DB:42:C:H5'	2.12	0.50
1:CA:17:U:H2'	1:CA:18:C:H6	1.73	0.50
13:CK:33:THR:HA	13:CK:40:ILE:HG12	1.93	0.50
26:BB:103:U:H4'	46:BZ:72:ARG:HD2	1.93	0.50
24:CX:295:THR:C	24:CX:297:GLU:H	2.14	0.50
25:BA:1658:C:OP1	28:BE:132:HIS:ND1	2.44	0.50
25:BA:558:G:OP1	34:BN:134:PRO:HD2	2.11	0.50
25:DA:2755:C:O5'	25:DA:2755:C:H6	1.94	0.50
30:DG:115:ARG:HH22	30:DG:136:ARG:H	1.57	0.50
46:DZ:27:VAL:HG13	46:DZ:35:ARG:O	2.12	0.50
21:CS:16:LEU:HA	21:CS:19:VAL:HG12	1.94	0.50
47:B0:32:ARG:C	47:B0:35:ASN:HD21	2.15	0.50
25:BA:2887:U:H2'	25:BA:2888:C:H6	1.77	0.50
37:BQ:81:VAL:O	37:BQ:82:ARG:HD3	2.12	0.50
28:DE:115:GLY:N	25:DA:1655:A:H4'	2.27	0.50
4:CB:20:GLU:HA	4:CB:20:GLU:OE1	2.10	0.50
25:BA:329:G:H4'	25:BA:330:A:OP2	2.10	0.50
8:CF:75:LEU:O	8:CF:79:LEU:HG	2.12	0.50
25:BA:1945:G:H2'	25:BA:1946:U:C6	2.47	0.50
29:DF:164:ARG:HH22	29:DF:177:ALA:HA	1.76	0.50
25:BA:363(G):A:H5''	25:BA:364:C:OP1	2.11	0.50
29:DF:33:LEU:O	29:DF:37:VAL:HG23	2.11	0.50
25:BA:2099:U:H2'	25:BA:2100:G:H8	1.76	0.50
2:CY:47:U:H3'	2:CY:48:C:H5'	1.94	0.50
46:BZ:58:VAL:HA	46:BZ:67:LEU:O	2.12	0.50
1:CA:542:G:H2'	1:CA:543:C:H6	1.76	0.50
1:CA:323:U:O3'	22:CT:22:ARG:HD3	2.12	0.50
1:CA:191(C):G:H2'	1:CA:191(D):U:C6	2.47	0.50
1:CA:1034:G:H2'	1:CA:1035:A:H8	1.77	0.50
55:B8:11:LYS:HB2	55:B8:61:LEU:HD22	1.92	0.50
1:CA:1001:G:H2'	1:CA:1002:G:O4'	2.12	0.50
25:BA:2327:A:H2'	25:BA:2328:A:C8	2.46	0.50
49:B2:15:LYS:HE2	49:B2:15:LYS:HA	1.92	0.50
41:BU:79:PHE:HE1	41:BU:83:LEU:HD11	1.76	0.50
5:CC:113:ALA:HB3	5:CC:114:PRO:HD3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BV:52:VAL:HG13	42:BV:55:ALA:HB3	1.94	0.50
44:BX:51:VAL:HA	44:BX:83:VAL:HA	1.94	0.50
27:BD:246:PRO:HD2	27:BD:255:LYS:HD3	1.94	0.50
1:AA:528:C:H41	14:AL:48:ASN:ND2	2.10	0.50
30:BG:53:LEU:HD13	30:BG:88:ILE:HG12	1.93	0.50
18:CP:8:ARG:HB3	18:CP:28:ARG:NH1	2.27	0.50
14:AL:84:ILE:HG23	14:AL:97:TYR:HB3	1.92	0.50
28:DE:67:PHE:HE2	28:DE:75:VAL:HG22	1.77	0.50
51:D4:43:GLY:H	51:D4:60:GLU:HA	1.76	0.50
37:DQ:141:GLN:HE21	46:DZ:72:ARG:HG2	1.77	0.50
25:DA:886:C:H3'	25:DA:886:C:H6	1.75	0.50
25:DA:1858:G:O2'	25:DA:1859:A:H8	1.93	0.50
24:AX:342:ALA:O	24:AX:346:ARG:HG3	2.12	0.50
25:DA:1952:A:C6	25:DA:1953:A:N1	2.79	0.50
4:AB:118:LEU:O	4:AB:122:PHE:HB2	2.12	0.50
25:DA:492:A:H2'	25:DA:493:G:O4'	2.12	0.50
37:BQ:132:VAL:HG11	46:BZ:81:ARG:CZ	2.42	0.50
27:DD:133:LEU:HD22	27:DD:173:VAL:HG11	1.92	0.50
48:D1:21:ARG:O	25:DA:380:U:H4'	2.12	0.50
33:DJ:15:GLU:O	33:DJ:19:ARG:HG3	2.11	0.50
40:DT:96:ARG:HG3	40:DT:97:ALA:N	2.27	0.50
25:BA:807:U:H2'	25:BA:808:G:C8	2.46	0.50
1:CA:1190:G:H5'	1:CA:1191:A:OP1	2.12	0.50
34:DN:51:THR:HG21	25:DA:1005:C:O2'	2.11	0.50
1:AA:90:C:H2'	1:AA:91:C:C6	2.47	0.50
31:DH:13:LYS:HE2	31:DH:13:LYS:HA	1.93	0.50
25:DA:2869:G:H2'	25:DA:2870:C:C6	2.47	0.50
17:CO:9:GLN:O	17:CO:13:GLN:HG2	2.11	0.50
37:BQ:63:LYS:HD3	46:BZ:175:VAL:HG21	1.92	0.50
25:BA:1831:G:H2'	25:BA:1832:C:C6	2.46	0.50
25:DA:1355:G:H2'	25:DA:1356:G:H8	1.77	0.50
25:BA:756:C:C4	25:BA:757:U:C5	2.99	0.50
37:DQ:50:ALA:HB1	37:DQ:121:ALA:HB1	1.94	0.50
1:CA:751:U:H2'	1:CA:752:G:O4'	2.11	0.50
7:AE:110:LEU:HA	7:AE:113:ALA:HB3	1.93	0.50
4:CB:22:LYS:HA	4:CB:22:LYS:HZ2	1.75	0.50
25:DA:1536:A:O5'	25:DA:1536:A:H8	1.94	0.50
10:CH:80:ILE:HD12	10:CH:80:ILE:N	2.26	0.50
24:CX:263:GLU:O	24:CX:267:MET:HG2	2.12	0.50
1:AA:1443:G:O2'	1:AA:1446:A:H5''	2.12	0.50
27:DD:52:ARG:NH1	27:DD:249:PRO:HG2	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:D2:39:ALA:CA	49:D2:45:SER:HB3	2.31	0.50
44:DX:26:TYR:CE1	44:DX:89:ILE:HG12	2.47	0.50
30:DG:86:MET:O	30:DG:87:PRO:O	2.30	0.50
31:DH:101:ARG:HE	31:DH:101:ARG:N	2.07	0.50
30:BG:64:THR:HG23	30:BG:66:GLN:N	2.24	0.50
53:B6:25:LYS:HD3	55:B8:34:TRP:CZ3	2.47	0.50
24:AX:294:GLY:O	24:AX:297:GLU:HG3	2.11	0.50
1:CA:1271:G:H2'	1:CA:1272:G:C8	2.43	0.50
9:CG:15:ASP:HB3	9:CG:19:GLY:H	1.76	0.50
25:BA:1441:G:H2'	25:BA:1442:G:H8	1.77	0.50
43:DW:69:LEU:O	43:DW:69:LEU:HD12	2.12	0.50
38:BR:11:ASN:OD1	38:BR:12:ARG:N	2.40	0.50
1:AA:828:A:H2'	1:AA:829:G:O4'	2.12	0.50
34:DN:134:PRO:HD2	25:DA:558:G:OP1	2.12	0.50
46:BZ:27:VAL:HG13	46:BZ:35:ARG:O	2.12	0.50
25:BA:64:A:O2'	44:BX:71:GLY:HA2	2.12	0.50
36:DP:11:GLY:HA3	25:DA:1244:G:H4'	1.94	0.50
11:CI:14:VAL:O	11:CI:65:VAL:HG23	2.12	0.50
40:BT:60:THR:HG22	40:BT:77:PRO:HA	1.94	0.50
25:DA:2291:U:H2'	25:DA:2292:C:C6	2.46	0.50
25:DA:2263:C:H2'	25:DA:2264:C:C6	2.46	0.50
25:DA:364:C:H6	25:DA:364:C:H5'	1.76	0.50
25:BA:755:C:H2'	25:BA:756:C:H6	1.76	0.50
7:AE:149:GLU:O	7:AE:153:LYS:HB2	2.11	0.50
24:AX:313:THR:HG22	24:AX:320:THR:OG1	2.10	0.50
25:DA:796:C:H2'	25:DA:797:C:C6	2.46	0.50
25:BA:2808:U:H5'	25:BA:2891:G:O6	2.11	0.50
25:BA:871:U:H4'	37:BQ:69:PHE:CE2	2.47	0.50
25:BA:674:G:O2'	29:BF:74:ARG:HD3	2.12	0.50
46:BZ:97:GLU:HB3	46:BZ:125:LEU:HD21	1.94	0.50
26:BB:60:C:H2'	26:BB:61:G:H8	1.76	0.50
6:CD:122:ARG:O	6:CD:122:ARG:HD3	2.12	0.50
25:DA:2607:G:H2'	25:DA:2608:G:O4'	2.12	0.50
2:CY:21:A:O2'	2:CY:22:G:C8	2.65	0.50
25:BA:1252:G:C2	25:BA:1253:A:C2	2.99	0.50
25:BA:1543:A:H5'	25:BA:1544:C:OP2	2.12	0.50
1:AA:529:G:H22	14:AL:50:ALA:HB2	1.77	0.50
25:DA:2056:G:N3	25:DA:2056:G:H2'	2.27	0.50
30:BG:41:GLN:HB2	30:BG:90:LEU:HB3	1.93	0.50
28:DE:192:ASN:HD22	28:DE:192:ASN:N	2.09	0.50
1:CA:674:G:H2'	1:CA:675:A:H8	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DT:50:ILE:HA	40:DT:99:LEU:CD1	2.41	0.50
41:DU:76:TYR:CE2	25:DA:1153:C:H5'	2.47	0.50
25:BA:886:C:H3'	25:BA:886:C:C6	2.46	0.50
25:BA:1784:A:H4'	25:BA:1785:A:O5'	2.11	0.50
15:AM:15:VAL:O	15:AM:19:LEU:HD23	2.12	0.50
1:CA:370:C:H2'	1:CA:371:G:C8	2.46	0.50
44:DX:31:HIS:HD2	44:DX:33:LYS:O	1.94	0.50
1:CA:452:A:H2'	1:CA:453:A:H8	1.73	0.50
25:BA:747:U:H5'	43:BW:90:ARG:NH1	2.27	0.50
26:DB:45:A:N3	26:DB:45:A:H2'	2.27	0.50
24:AX:114:GLY:O	25:BA:1913:A:H2	1.94	0.50
25:DA:859:G:H22	25:DA:916:G:H2'	1.76	0.50
4:CB:27:LYS:O	4:CB:30:ARG:HG2	2.11	0.50
1:CA:90:C:H2'	1:CA:91:C:C6	2.47	0.50
1:CA:42:G:H2'	1:CA:43:C:C6	2.47	0.50
25:DA:270(L):C:H2'	25:DA:270(N):U:C5	2.46	0.50
38:DR:53:HIS:O	38:DR:56:LYS:HB3	2.12	0.50
17:CO:5:LYS:N	17:CO:5:LYS:HD3	2.27	0.50
10:AH:80:ILE:HD12	10:AH:80:ILE:N	2.26	0.50
1:CA:85:U:H2'	1:CA:86:U:O4'	2.12	0.50
24:CX:21:ASP:O	24:CX:24:VAL:HG12	2.12	0.50
1:CA:695:A:H2'	1:CA:696:A:C8	2.47	0.50
44:BX:89:ILE:HB	44:BX:92:LEU:HB2	1.92	0.49
46:DZ:45:ASP:O	46:DZ:49:ARG:HG2	2.11	0.49
25:DA:2777:G:C5'	25:DA:2778:A:H5'	2.34	0.49
25:DA:671:C:N4	25:DA:809:G:H1	2.07	0.49
1:AA:673:G:H2'	1:AA:674:G:C8	2.47	0.49
1:CA:427:U:C4	1:CA:428:G:C6	2.99	0.49
32:DI:31:LEU:HB3	32:DI:32:PRO:HD3	1.93	0.49
2:AY:23:C:H2'	2:AY:24:U:H6	1.73	0.49
1:AA:145:G:H2'	1:AA:146:G:C8	2.47	0.49
25:BA:1498:C:H2'	25:BA:1499:C:H6	1.76	0.49
29:DF:53:THR:OG1	29:DF:54:ARG:N	2.45	0.49
1:CA:715:A:H2'	1:CA:716:A:H8	1.76	0.49
44:DX:71:GLY:HA2	25:DA:64:A:O2'	2.11	0.49
25:DA:2169:A:H2'	25:DA:2170:A:C8	2.47	0.49
25:BA:1833:U:H2'	25:BA:1834:U:C6	2.47	0.49
10:AH:119:LEU:HD22	10:AH:123:GLU:HB3	1.93	0.49
25:DA:2684:U:H3	25:DA:2727:G:H1'	1.76	0.49
6:AD:30:LYS:C	6:AD:32:ALA:H	2.14	0.49
19:CQ:80:GLY:O	19:CQ:81:ARG:HG2	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:DE:54:GLN:HB2	28:DE:74:PRO:O	2.12	0.49
54:D7:30:VAL:HG22	54:D7:33:ARG:HH22	1.76	0.49
1:AA:1034:G:H2'	1:AA:1035:A:C8	2.47	0.49
25:BA:2607:G:H2'	25:BA:2608:G:O4'	2.11	0.49
1:CA:406:G:H2'	1:CA:407:G:H8	1.75	0.49
1:AA:625:G:OP1	18:AP:9:PHE:HB3	2.12	0.49
2:AY:57:A:O2'	2:AY:58:A:H5'	2.11	0.49
4:CB:130:ARG:HD3	4:CB:134:GLU:CD	2.32	0.49
37:DQ:48:GLU:O	37:DQ:52:VAL:HG12	2.12	0.49
44:DX:21:PHE:CD2	44:DX:26:TYR:HD2	2.31	0.49
44:DX:51:VAL:HG12	44:DX:52:VAL:N	2.27	0.49
29:DF:63:LYS:HZ3	29:DF:67:GLN:HG2	1.77	0.49
21:AS:6:LYS:HD2	21:AS:6:LYS:H	1.76	0.49
46:BZ:45:ASP:O	46:BZ:49:ARG:HG2	2.12	0.49
25:DA:2392:A:C6	25:DA:2429:G:C8	2.99	0.49
49:D2:14:ARG:HH21	49:D2:67:LYS:HD2	1.75	0.49
25:BA:140:A:H8	25:BA:1408:C:O2'	1.93	0.49
32:DI:107:ILE:HG13	32:DI:109:ILE:HG23	1.94	0.49
39:DS:25:ARG:HG3	39:DS:88:ASP:HB2	1.93	0.49
24:AX:295:THR:C	24:AX:297:GLU:H	2.14	0.49
53:D6:27:LYS:HE2	25:DA:2286:A:H2	1.77	0.49
25:BA:558:G:H5''	34:BN:135:LEU:HD22	1.94	0.49
14:AL:89:VAL:HG12	14:AL:91:ASP:H	1.77	0.49
36:DP:18:ARG:NH1	36:DP:18:ARG:HB3	2.26	0.49
1:AA:1320:C:H42	21:AS:36:ARG:HG3	1.77	0.49
4:CB:118:LEU:O	4:CB:122:PHE:HB2	2.12	0.49
25:BA:2335:A:H8	39:BS:13:ARG:HH22	1.58	0.49
25:BA:919:G:H5''	26:BB:81:G:H1'	1.93	0.49
24:AX:230:GLN:O	24:AX:234:THR:HG22	2.12	0.49
24:CX:128:PHE:CE1	24:CX:132:LEU:HD11	2.48	0.49
35:BO:79:PHE:CD2	40:BT:72:VAL:HG22	2.48	0.49
26:DB:46:A:C5	26:DB:47:C:C4	3.01	0.49
43:DW:103:ILE:N	43:DW:103:ILE:HD12	2.27	0.49
46:BZ:54:HIS:CG	46:BZ:101:PRO:HG3	2.47	0.49
1:CA:217:C:H2'	1:CA:218:C:H6	1.77	0.49
25:DA:2453:A:O2'	25:DA:2572:A:H1'	2.13	0.49
43:BW:19:LEU:O	43:BW:23:LEU:HD13	2.12	0.49
10:CH:73:ASP:O	10:CH:75:ARG:HG2	2.11	0.49
24:CX:239:VAL:HG11	24:CX:262:ARG:HA	1.94	0.49
25:DA:560:C:O2'	25:DA:561:G:H5'	2.12	0.49
14:AL:40:ARG:HH11	14:AL:40:ARG:HB3	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:792:G:H5''	25:BA:793:A:H5'	1.94	0.49
25:DA:302:C:H2'	25:DA:303:U:C6	2.47	0.49
27:DD:224:ALA:HA	27:DD:233:HIS:O	2.12	0.49
41:BU:92:ARG:HB3	42:BV:11:GLN:OE1	2.12	0.49
14:AL:54:VAL:HG12	14:AL:55:ALA:N	2.27	0.49
30:DG:72:ARG:HD3	30:DG:86:MET:O	2.12	0.49
25:BA:2392:A:C6	25:BA:2429:G:C8	3.00	0.49
49:B2:13:ALA:O	49:B2:17:SER:HA	2.12	0.49
49:B2:12:GLU:C	49:B2:14:ARG:H	2.15	0.49
36:DP:115:LEU:HA	36:DP:134:ALA:CB	2.40	0.49
13:CK:51:LYS:HA	13:CK:55:LYS:HZ3	1.78	0.49
43:BW:29:LEU:HB2	43:BW:69:LEU:HD12	1.94	0.49
43:DW:29:LEU:HB2	43:DW:69:LEU:HD12	1.95	0.49
19:AQ:45:HIS:HB2	19:AQ:69:LYS:HE2	1.93	0.49
20:AR:58:LEU:HD23	20:AR:62:GLU:HB3	1.95	0.49
25:BA:1655:A:H4'	28:BE:115:GLY:N	2.26	0.49
41:DU:2:PRO:HD3	25:DA:444:C:O5'	2.12	0.49
25:BA:1173:G:O2'	25:BA:1175:U:H6	1.94	0.49
25:DA:1924:C:H2'	25:DA:1925:C:H6	1.76	0.49
26:BB:93:C:H5''	46:BZ:20:ARG:NH2	2.28	0.49
48:D1:20:ARG:HB3	25:DA:380:U:O2'	2.11	0.49
25:BA:1529:A:H3'	25:BA:1530:G:C8	2.47	0.49
25:BA:2758:A:H2'	25:BA:2759:G:O4'	2.12	0.49
25:DA:2197:U:O2'	25:DA:2198:A:H5''	2.12	0.49
24:CX:303:ARG:HD2	24:CX:305:TYR:CZ	2.47	0.49
25:BA:589:C:H2'	25:BA:590:A:C8	2.47	0.49
1:CA:1014:A:H1'	21:CS:34:TRP:HB2	1.93	0.49
14:CL:40:ARG:HB3	14:CL:40:ARG:HH11	1.77	0.49
2:AZ:31:G:H21	9:AG:86:GLN:HE21	1.60	0.49
13:CK:120:ARG:HH21	13:CK:126:ARG:HH21	1.60	0.49
25:DA:2808:U:H5'	25:DA:2891:G:O6	2.12	0.49
25:DA:1788:C:O2'	25:DA:1789:A:H5'	2.13	0.49
4:CB:164:VAL:HG12	4:CB:165:VAL:H	1.76	0.49
14:CL:54:VAL:HG12	14:CL:55:ALA:N	2.28	0.49
5:AC:35:GLU:HA	5:AC:38:ARG:HG2	1.94	0.49
36:BP:18:ARG:HB3	36:BP:18:ARG:NH1	2.26	0.49
1:CA:1353:G:H2'	1:CA:1354:C:H6	1.78	0.49
25:BA:2592:G:C6	25:BA:2593:U:C2	3.00	0.49
25:DA:1997:G:H2'	25:DA:1998:G:C8	2.48	0.49
53:D6:25:LYS:HD3	55:D8:34:TRP:CZ3	2.47	0.49
24:AX:112:ARG:HB2	24:AX:198:THR:CG2	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1308:U:OP1	15:AM:97:PRO:HA	2.12	0.49
53:B6:11:LEU:HD13	53:B6:12:GLU:N	2.28	0.49
25:BA:2286:A:H2	53:B6:27:LYS:HE2	1.76	0.49
14:CL:89:VAL:HG12	14:CL:91:ASP:H	1.77	0.49
34:DN:135:LEU:HD22	25:DA:558:G:H5'	1.94	0.49
14:CL:83:LEU:HG	14:CL:104:TYR:CE1	2.47	0.49
29:BF:53:THR:OG1	29:BF:54:ARG:N	2.45	0.49
45:BY:30:VAL:HG13	45:BY:37:VAL:HG12	1.94	0.49
49:B2:61:LEU:O	49:B2:65:ASN:N	2.46	0.49
28:DE:113:PHE:HD2	25:DA:1655:A:H1'	1.76	0.49
25:BA:492:A:H2'	25:BA:493:G:O4'	2.12	0.49
25:DA:2574:G:H2'	25:DA:2575:C:C6	2.47	0.49
34:DN:58:ARG:HB2	34:DN:65:TRP:CH2	2.48	0.49
8:CF:61:LEU:HB3	8:CF:63:TYR:HE2	1.77	0.49
25:DA:656:G:C6	25:DA:657:U:C4	3.01	0.49
25:BA:333:G:H2'	25:BA:333:G:N3	2.27	0.49
29:DF:14:PRO:HD3	29:DF:128:ALA:HB2	1.93	0.49
25:BA:1005:C:O2'	34:BN:51:THR:HG21	2.12	0.49
1:AA:1062:U:H2'	1:AA:1063:C:C6	2.48	0.49
31:BH:105:LEU:HD22	31:BH:113:VAL:HB	1.94	0.49
2:CY:21:A:H8	2:CY:21:A:H5'	1.76	0.49
40:BT:29:ARG:HD3	40:BT:46:GLU:OE1	2.11	0.49
35:DO:1:MET:C	35:DO:2:ILE:HD12	2.33	0.49
25:BA:191:A:H2'	25:BA:192:C:C6	2.47	0.49
25:DA:1252:G:C2	25:DA:1253:A:C2	3.01	0.49
7:CE:82:VAL:HG21	7:CE:138:ALA:HA	1.94	0.49
25:BA:560:C:O2'	25:BA:561:G:H5'	2.11	0.49
34:DN:119:GLU:O	34:DN:123:GLU:HG3	2.11	0.49
9:CG:53:LYS:HG3	9:CG:125:MET:HE3	1.93	0.49
37:DQ:24:GLY:HA2	37:DQ:101:ARG:HA	1.94	0.49
6:CD:23:GLY:HA3	6:CD:112:VAL:HG22	1.93	0.49
42:BV:4:ILE:HG22	42:BV:5:VAL:N	2.27	0.49
36:BP:128:HIS:CA	36:BP:147:LEU:HB3	2.34	0.49
42:DV:52:VAL:CG1	42:DV:55:ALA:HB3	2.43	0.49
49:D2:2:LYS:H	49:D2:2:LYS:CD	2.26	0.49
24:AX:96:LEU:HD23	24:AX:348:LEU:HA	1.95	0.49
14:AL:65:VAL:HG11	14:AL:97:TYR:CD1	2.48	0.49
49:D2:12:GLU:C	49:D2:14:ARG:H	2.15	0.49
30:DG:41:GLN:HB2	30:DG:90:LEU:HB3	1.94	0.49
34:DN:42:GLU:HG3	34:DN:42:GLU:O	2.12	0.49
35:BO:38:VAL:HG12	35:BO:61:VAL:HB	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CK:19:ALA:HB3	13:CK:82:VAL:HG22	1.95	0.49
28:BE:118:LYS:HG3	38:BR:2:ARG:HH22	1.76	0.49
53:B6:15:GLU:HG2	53:B6:16:CYS:N	2.27	0.49
25:BA:94:G:N2	49:B2:47:ASN:HD22	2.09	0.49
12:CJ:78:ASN:HB2	12:CJ:81:THR:HG23	1.95	0.49
34:BN:36:TRP:HB2	34:BN:156:GLN:HB3	1.94	0.49
20:CR:58:LEU:HD23	20:CR:62:GLU:HB3	1.94	0.49
44:DX:53:LYS:HE3	44:DX:55:ASN:HD21	1.77	0.49
24:AX:332:LEU:HD23	24:AX:332:LEU:H	1.75	0.49
1:CA:777:A:H2'	1:CA:778:G:H8	1.77	0.49
25:DA:2728:U:H2'	25:DA:2729:G:H8	1.76	0.49
25:BA:1244:G:H4'	36:BP:11:GLY:HA3	1.95	0.49
39:BS:25:ARG:HG3	39:BS:88:ASP:HB2	1.93	0.49
10:CH:119:LEU:HD22	10:CH:123:GLU:HB3	1.93	0.49
25:DA:2193:G:H2'	25:DA:2194:G:H8	1.78	0.49
24:CX:125:ARG:HB3	24:CX:154:GLY:HA2	1.95	0.49
1:AA:1190:G:H5'	1:AA:1191:A:OP1	2.13	0.49
1:CA:89:U:H2'	1:CA:90:C:C6	2.47	0.49
25:DA:2619:C:H2'	25:DA:2620:C:H6	1.77	0.49
10:AH:73:ASP:CG	10:AH:75:ARG:HD3	2.33	0.49
25:DA:273(A):G:H1	25:DA:364:C:H42	1.59	0.49
7:CE:110:LEU:HA	7:CE:113:ALA:HB3	1.93	0.49
1:AA:894:G:H2'	1:AA:895:G:C8	2.46	0.49
25:DA:2364:C:H2'	25:DA:2365:G:O4'	2.12	0.49
1:CA:625:G:OP1	18:CP:9:PHE:HB3	2.12	0.49
25:BA:2023:G:H4'	25:BA:2617:C:O3'	2.12	0.49
27:DD:75:ILE:HG21	27:DD:99:ASP:HB2	1.94	0.49
25:DA:2758:A:H2'	25:DA:2759:G:O4'	2.12	0.49
25:DA:1462:C:H4'	25:DA:2703:C:H5'	1.95	0.49
34:DN:76:VAL:HG22	34:DN:144:LYS:HB2	1.94	0.49
2:AY:21:A:O2'	2:AY:22:G:C8	2.65	0.49
25:DA:740:U:H2'	25:DA:741:G:C8	2.47	0.49
43:BW:103:ILE:HD12	43:BW:103:ILE:H	1.76	0.49
25:DA:1531:C:H6	25:DA:1531:C:O5'	1.95	0.49
25:BA:1339:G:N2	25:BA:1603:A:H1'	2.28	0.49
25:BA:1331:A:O2'	25:BA:1332:G:C8	2.65	0.49
27:BD:75:ILE:HG21	27:BD:99:ASP:HB2	1.95	0.49
25:DA:2336:A:H5''	25:DA:2336:A:H8	1.76	0.49
4:AB:164:VAL:HG12	4:AB:165:VAL:H	1.76	0.49
54:B7:30:VAL:HG22	54:B7:33:ARG:HH22	1.76	0.49
25:DA:1812:A:H2'	25:DA:1813:G:C8	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BP:146:VAL:HG22	36:BP:147:LEU:N	2.23	0.49
25:BA:1997:G:H2'	25:BA:1998:G:C8	2.47	0.49
30:BG:91:ARG:HG2	30:BG:92:VAL:N	2.27	0.49
30:BG:94:LEU:H	30:BG:94:LEU:HD23	1.77	0.49
11:CI:48:GLU:N	11:CI:49:PRO:CD	2.75	0.49
30:DG:94:LEU:H	30:DG:94:LEU:HD23	1.77	0.49
25:BA:464:U:C2	25:BA:788:A:C6	3.01	0.49
31:DH:137:ASP:HB3	31:DH:140:LYS:HD2	1.94	0.49
43:BW:69:LEU:HD12	43:BW:69:LEU:O	2.11	0.49
1:AA:1053:G:C3'	1:AA:1054:C:H5'	2.42	0.49
15:CM:49:THR:O	15:CM:53:VAL:HG23	2.13	0.49
25:BA:2755:C:H6	25:BA:2755:C:O5'	1.95	0.49
30:DG:135:LEU:O	25:DA:2305:A:H1'	2.13	0.49
21:AS:16:LEU:HA	21:AS:19:VAL:HG12	1.94	0.49
22:CT:48:LYS:HD3	22:CT:51:GLU:OE2	2.12	0.49
28:DE:115:GLY:HA3	25:DA:1655:A:O3'	2.13	0.49
29:DF:34:TRP:HB2	36:DP:10:PRO:O	2.12	0.49
25:BA:1924:C:H2'	25:BA:1925:C:H6	1.77	0.49
26:BB:45:A:H2'	26:BB:45:A:N3	2.28	0.49
16:AN:4:LYS:O	16:AN:7:ILE:HG13	2.12	0.49
37:DQ:132:VAL:HG11	46:DZ:81:ARG:CZ	2.42	0.49
25:BA:1125:G:C6	25:BA:1126:A:N6	2.80	0.49
1:AA:1017:G:H2'	1:AA:1018:C:H6	1.76	0.49
19:AQ:80:GLY:O	19:AQ:81:ARG:HG2	2.11	0.49
34:BN:76:VAL:HG22	34:BN:144:LYS:HB2	1.94	0.49
25:DA:2087:G:O5'	25:DA:2087:G:H8	1.94	0.49
29:BF:43:LYS:HA	29:BF:98:SER:HB3	1.94	0.49
25:DA:2565:A:H5''	25:DA:2566:A:OP2	2.13	0.49
25:BA:529:A:H62	25:BA:2041:U:H3	1.59	0.49
1:AA:1402:C:H2'	1:AA:1403:C:O4'	2.13	0.49
25:BA:2241:A:H2'	25:BA:2242:G:C8	2.47	0.49
1:CA:1020:U:H2'	1:CA:1021:G:C8	2.47	0.49
17:CO:24:SER:O	17:CO:28:GLN:HG3	2.12	0.49
30:DG:139:LEU:HD23	30:DG:149:VAL:HG21	1.94	0.49
25:DA:212:G:O2'	25:DA:213:A:H5'	2.13	0.49
12:AJ:8:LEU:HD21	12:AJ:23:ILE:HD12	1.95	0.49
25:BA:2643:G:O2'	25:BA:2644:G:H5'	2.13	0.49
27:BD:224:ALA:HA	27:BD:233:HIS:O	2.12	0.49
42:DV:2:PHE:HD2	42:DV:13:ARG:HB2	1.78	0.49
42:DV:52:VAL:HG13	42:DV:55:ALA:HB3	1.94	0.49
25:BA:1497:U:N3	25:BA:1578:U:OP1	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DP:57:THR:C	36:DP:59:LEU:N	2.66	0.49
4:AB:98:LEU:HB2	4:AB:101:MET:CG	2.43	0.49
25:BA:1996:C:H4'	25:BA:1997:G:H5'	1.93	0.49
25:DA:1190:G:C8	25:DA:1190:G:H5'	2.47	0.49
5:AC:22:TRP:CE2	16:AN:54:PRO:HG2	2.48	0.49
36:DP:47:ASP:H	36:DP:48:PRO:HA	1.78	0.49
14:CL:74:HIS:CD2	14:CL:76:LEU:HB2	2.47	0.49
2:CY:23:C:H2'	2:CY:24:U:H6	1.75	0.49
30:BG:10:LYS:O	30:BG:14:GLU:HB3	2.13	0.49
30:BG:39:ILE:HG22	30:BG:40:ASN:N	2.28	0.49
15:CM:15:VAL:O	15:CM:19:LEU:HD23	2.12	0.49
25:DA:1039:G:H2'	25:DA:1040:C:C6	2.48	0.49
25:BA:2293:C:H4'	39:BS:93:LYS:HZ1	1.77	0.49
35:DO:35:VAL:HG11	35:DO:103:ALA:HB3	1.94	0.49
25:DA:2039:C:H2'	25:DA:2040:C:C6	2.48	0.49
1:CA:7:G:H21	7:CE:121:LYS:HE3	1.76	0.49
31:BH:104:GLU:HA	31:BH:113:VAL:O	2.13	0.49
1:CA:1034:G:H2'	1:CA:1035:A:C8	2.48	0.49
1:AA:624:C:H2'	1:AA:625:G:H8	1.78	0.49
22:AT:89:ARG:HH21	22:AT:104:LEU:HD22	1.78	0.49
34:BN:119:GLU:O	34:BN:123:GLU:HG3	2.12	0.49
37:BQ:35:VAL:HA	37:BQ:101:ARG:O	2.12	0.49
1:CA:932:C:H5''	9:CG:4:ARG:HG3	1.95	0.49
29:BF:33:LEU:O	29:BF:37:VAL:HG23	2.12	0.49
25:BA:1266:G:H5''	52:B5:23:HIS:NE2	2.28	0.49
1:AA:925:G:H1	1:AA:1391:U:H3	1.60	0.49
22:AT:53:LEU:O	22:AT:57:ARG:HD3	2.13	0.49
52:D5:23:HIS:NE2	25:DA:1266:G:H5''	2.28	0.49
24:AX:239:VAL:HG11	24:AX:262:ARG:HA	1.95	0.49
24:AX:21:ASP:O	24:AX:24:VAL:HG12	2.12	0.49
25:BA:2178:C:H2'	25:BA:2179:C:C6	2.46	0.49
29:DF:43:LYS:HA	29:DF:98:SER:HB3	1.94	0.49
25:BA:1531:C:O5'	25:BA:1531:C:H6	1.95	0.49
7:CE:39:GLY:HA2	7:CE:69:VAL:HB	1.95	0.49
40:BT:131:ALA:O	40:BT:135:VAL:HG23	2.13	0.49
44:DX:40:LYS:HE3	44:DX:51:VAL:O	2.13	0.49
1:AA:1314:C:H5	21:AS:6:LYS:HZ1	1.60	0.49
55:D8:32:LEU:HB3	25:DA:2392:A:OP1	2.12	0.49
36:DP:59:LEU:O	36:DP:59:LEU:HG	2.13	0.49
25:BA:570:G:H2'	25:BA:2030:A:H62	1.78	0.49
25:DA:464:U:C2	25:DA:788:A:C6	3.01	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BN:42:GLU:O	34:BN:42:GLU:HG3	2.12	0.49
44:BX:23:GLU:HG3	44:BX:24:GLY:N	2.26	0.49
4:AB:179:LYS:HA	10:AH:72:PRO:HG3	1.94	0.49
4:CB:179:LYS:HA	10:CH:72:PRO:HG3	1.95	0.49
14:AL:74:HIS:CD2	14:AL:76:LEU:HB2	2.47	0.49
25:DA:1265:A:OP1	25:DA:1265:A:H8	1.95	0.49
1:AA:950:U:H2'	1:AA:951:G:C8	2.44	0.49
25:BA:2073:C:O2'	25:BA:2074:U:H5'	2.12	0.49
5:CC:20:SER:HB2	5:CC:40:ARG:HH12	1.77	0.49
44:BX:53:LYS:HE3	44:BX:55:ASN:HD21	1.78	0.49
22:AT:50:GLU:HG3	22:AT:51:GLU:N	2.28	0.49
1:AA:949:A:H1'	1:AA:1364:U:N3	2.27	0.49
1:CA:949:A:H1'	1:CA:1364:U:N3	2.28	0.49
5:AC:20:SER:HB2	5:AC:40:ARG:HH12	1.78	0.49
25:BA:2728:U:H2'	25:BA:2729:G:H8	1.75	0.49
25:BA:1039:G:H2'	25:BA:1040:C:C6	2.47	0.49
26:BB:46:A:C5	26:BB:47:C:C4	3.01	0.49
1:CA:1062:U:H2'	1:CA:1063:C:C6	2.48	0.49
25:BA:1936:A:C8	25:BA:1945:G:C8	3.01	0.49
25:DA:1945:G:H1	25:DA:1961:C:H42	1.61	0.49
2:AZ:58:A:H4'	2:AZ:59:A:OP1	2.13	0.49
37:DQ:69:PHE:CE2	25:DA:871:U:H4'	2.47	0.49
46:DZ:97:GLU:HB3	46:DZ:125:LEU:HD21	1.95	0.49
40:DT:131:ALA:O	40:DT:135:VAL:HG23	2.12	0.49
41:DU:26:GLY:O	41:DU:30:LYS:HG2	2.12	0.49
37:BQ:50:ALA:HB1	37:BQ:121:ALA:HB1	1.93	0.49
54:D7:47:ARG:O	54:D7:48:LYS:HB2	2.12	0.49
37:DQ:68:ILE:HG23	37:DQ:103:MET:HA	1.94	0.49
55:D8:6:THR:HG23	55:D8:63:PRO:HG2	1.94	0.49
25:DA:2720:U:H2'	25:DA:2721:A:H8	1.78	0.49
30:DG:62:LEU:HB3	30:DG:143:GLU:HG3	1.94	0.49
4:CB:158:LEU:HD12	4:CB:158:LEU:H	1.77	0.49
1:AA:1070:U:H2'	1:AA:1071:C:C6	2.47	0.49
5:CC:61:ALA:O	5:CC:62:ASP:HB2	2.13	0.49
28:DE:9:VAL:HG22	28:DE:25:VAL:HB	1.95	0.49
1:AA:627:G:H2'	1:AA:628:G:C8	2.47	0.49
14:CL:110:LYS:O	14:CL:111:ASP:HB2	2.13	0.49
45:DY:30:VAL:HG13	45:DY:37:VAL:HG12	1.95	0.49
37:DQ:45:GLN:CD	37:DQ:45:GLN:H	2.16	0.49
25:BA:2392:A:OP1	55:B8:32:LEU:HB3	2.13	0.49
25:BA:1998:G:H2'	25:BA:1999:C:C6	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AC:125:GLU:OE2	5:AC:189:ALA:HA	2.12	0.49
30:DG:60:LEU:O	30:DG:64:THR:HG22	2.13	0.49
4:AB:80:ILE:HD12	4:AB:211:ILE:HB	1.94	0.49
25:BA:466:A:N3	25:BA:683:C:H1'	2.28	0.49
5:AC:179:ARG:HG3	5:AC:179:ARG:O	2.13	0.49
36:BP:52:GLU:CG	36:BP:53:GLY:H	2.25	0.49
12:CJ:55:LYS:O	12:CJ:56:HIS:CG	2.65	0.49
25:DA:2645:G:H3'	25:DA:2646:C:C5'	2.43	0.49
12:AJ:75:ILE:HG13	12:AJ:76:ASN:N	2.27	0.49
4:CB:24:TRP:HZ3	4:CB:26:PRO:HA	1.76	0.49
4:AB:24:TRP:CD1	4:AB:40:HIS:HE1	2.31	0.49
21:CS:63:THR:HG23	21:CS:65:ASN:H	1.77	0.49
45:DY:17:SER:CB	45:DY:71:LYS:HD2	2.43	0.49
7:AE:90:VAL:O	7:AE:120:THR:HA	2.13	0.49
25:DA:2887:U:H2'	25:DA:2888:C:H6	1.78	0.49
25:BA:2342:C:O2'	25:BA:2374:C:H5''	2.12	0.49
25:BA:953:A:H2'	25:BA:954:G:C8	2.48	0.49
25:DA:161:U:H3'	25:DA:162:U:C5'	2.43	0.49
1:AA:1366:C:H2'	1:AA:1367:C:C6	2.48	0.49
25:BA:2210:G:H5''	25:BA:2210:G:N3	2.28	0.49
1:CA:1016:A:H2'	1:CA:1017:G:O4'	2.13	0.49
1:AA:394:G:H2'	1:AA:395:C:C6	2.48	0.49
25:DA:330:A:O2'	25:DA:331:A:C8	2.65	0.49
25:DA:2556:C:H2'	25:DA:2557:G:O4'	2.12	0.49
43:BW:103:ILE:HD12	43:BW:103:ILE:N	2.27	0.49
25:DA:2087:G:H2'	25:DA:2088:G:C8	2.48	0.49
22:AT:85:MET:HB2	22:AT:104:LEU:HD21	1.94	0.49
25:BA:907:U:H2'	25:BA:908:C:C6	2.48	0.49
44:DX:29:TRP:CZ3	44:DX:76:ARG:HD3	2.48	0.49
24:CX:9:GLU:HA	24:CX:12:TYR:CD1	2.48	0.49
24:AX:303:ARG:HD2	24:AX:305:TYR:CZ	2.48	0.49
7:CE:122:GLU:O	7:CE:123:LEU:HD23	2.12	0.49
1:AA:102(C):C:H2'	1:AA:1029:G:C8	2.48	0.49
1:AA:665:A:H2'	1:AA:725:G:N2	2.28	0.49
10:CH:9:MET:HG3	10:CH:26:VAL:HG21	1.93	0.49
25:BA:678:C:H2'	25:BA:679:C:C6	2.48	0.49
1:CA:103(A):A:H2'	1:CA:103(B):G:O4'	2.13	0.49
25:DA:1001:A:H61	25:DA:1154:G:H1'	1.76	0.49
1:CA:102(C):C:H2'	1:CA:1029:G:C8	2.47	0.49
25:BA:2213:U:H6	25:BA:2213:U:O5'	1.96	0.49
28:BE:9:VAL:HG22	28:BE:25:VAL:HB	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:932:C:H5''	9:AG:4:ARG:HG3	1.95	0.49
25:DA:2307:G:H8	25:DA:2307:G:O5'	1.95	0.49
37:BQ:14:ARG:CG	37:BQ:14:ARG:NH1	2.65	0.49
45:DY:96:ILE:HG23	45:DY:101:LYS:O	2.13	0.49
44:BX:26:TYR:CE1	44:BX:89:ILE:HG12	2.47	0.49
44:BX:49:VAL:HG21	44:BX:89:ILE:HD11	1.95	0.49
48:B1:19:GLN:NE2	48:B1:41:ARG:HB2	2.14	0.49
25:BA:274:G:H5''	25:BA:274:G:H8	1.78	0.49
45:DY:8:LYS:HZ2	45:DY:8:LYS:H	1.59	0.49
36:BP:57:THR:C	36:BP:59:LEU:N	2.66	0.49
25:DA:466:A:N3	25:DA:683:C:H1'	2.27	0.49
26:BB:42:C:O4'	30:BG:69:ALA:HB2	2.13	0.49
4:CB:80:ILE:HD12	4:CB:211:ILE:HB	1.94	0.49
30:DG:10:LYS:O	30:DG:14:GLU:HB3	2.13	0.49
6:CD:121:VAL:O	6:CD:134:ASP:HA	2.13	0.49
25:DA:2073:C:O2'	25:DA:2074:U:H5'	2.13	0.49
25:BA:1022:G:O2'	25:BA:1023:U:P	2.71	0.49
22:AT:48:LYS:HD3	22:AT:51:GLU:OE2	2.13	0.49
25:DA:2342:C:O2'	25:DA:2374:C:H5''	2.13	0.49
8:AF:75:LEU:O	8:AF:79:LEU:HG	2.12	0.49
25:DA:414:C:H2'	25:DA:415:A:H8	1.78	0.49
43:BW:19:LEU:HB3	52:B5:25:LEU:HD12	1.94	0.49
37:BQ:24:GLY:HA2	37:BQ:101:ARG:HA	1.95	0.49
25:DA:2688:U:C5	25:DA:2720:U:OP2	2.65	0.49
25:BA:619:G:H5''	25:BA:620:G:OP2	2.13	0.49
40:DT:98:LYS:HB3	40:DT:100:TYR:CE1	2.48	0.49
1:AA:1001:G:H2'	1:AA:1002:G:O4'	2.11	0.49
25:DA:1331:A:O2'	25:DA:1332:G:C8	2.66	0.49
1:CA:627:G:H2'	1:CA:628:G:C8	2.48	0.49
2:CY:7:G:H3'	2:CY:8:U:H5'	1.95	0.49
25:BA:1829:A:H2'	25:BA:1830:C:O5'	2.13	0.49
38:BR:54:LEU:HD23	38:BR:62:ALA:HB1	1.95	0.49
25:BA:1587:A:H2'	25:BA:1588:C:C6	2.48	0.49
14:AL:110:LYS:O	14:AL:111:ASP:HB2	2.13	0.49
25:DA:1282:U:H2'	25:DA:1283:G:O4'	2.13	0.49
25:BA:302:C:H2'	25:BA:303:U:C6	2.48	0.49
1:CA:925:G:H1	1:CA:1391:U:H3	1.60	0.49
2:AY:47:U:H3'	2:AY:48:C:H5'	1.94	0.49
25:BA:1967:C:H2'	25:BA:1968:G:O4'	2.13	0.49
25:BA:2364:C:H2'	25:BA:2365:G:O4'	2.12	0.49
7:AE:82:VAL:HG21	7:AE:138:ALA:HA	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AX:70:LEU:HD13	24:AX:73:MET:SD	2.53	0.49
27:DD:231:HIS:HE1	27:DD:233:HIS:ND1	2.11	0.48
45:BY:81:LYS:CD	45:BY:97:ARG:HB3	2.42	0.48
47:D0:22:GLY:O	47:D0:38:VAL:HG13	2.13	0.48
13:AK:22:HIS:HB3	13:AK:29:ILE:CG1	2.33	0.48
21:CS:6:LYS:HD2	21:CS:6:LYS:H	1.78	0.48
30:DG:87:PRO:O	30:DG:88:ILE:HB	2.12	0.48
7:AE:39:GLY:HA2	7:AE:69:VAL:HB	1.94	0.48
25:BA:661:C:O2'	36:BP:16:ARG:HD2	2.13	0.48
26:BB:42:C:H5'	30:BG:68:PRO:O	2.12	0.48
30:DG:69:ALA:HB2	26:DB:42:C:O4'	2.13	0.48
25:DA:108:U:H2'	25:DA:109:G:C8	2.48	0.48
13:AK:51:LYS:HA	13:AK:55:LYS:HZ3	1.78	0.48
25:BA:1265:A:OP1	25:BA:1265:A:H8	1.96	0.48
9:AG:85:TYR:HB3	9:AG:151:TYR:HD2	1.78	0.48
25:DA:2745:C:H2'	25:DA:2746:U:C6	2.48	0.48
33:BJ:17:LEU:HD22	33:BJ:21:GLN:HE21	1.77	0.48
7:CE:90:VAL:O	7:CE:120:THR:HA	2.13	0.48
25:DA:1498:C:H2'	25:DA:1499:C:H6	1.75	0.48
27:DD:183:ARG:HB3	27:DD:270:ILE:HG22	1.95	0.48
25:DA:2119:A:H61	25:DA:2168:G:H1'	1.78	0.48
25:DA:1900:A:N1	25:DA:1970:A:C6	2.81	0.48
43:DW:90:ARG:NH1	25:DA:747:U:H5'	2.28	0.48
25:BA:656:G:C6	25:BA:657:U:C4	3.01	0.48
4:AB:130:ARG:HD3	4:AB:134:GLU:CD	2.34	0.48
45:DY:46:LYS:HE2	25:DA:480:A:OP2	2.13	0.48
6:AD:8:VAL:C	6:AD:10:ARG:H	2.15	0.48
35:BO:112:MET:O	35:BO:115:VAL:HG22	2.13	0.48
25:DA:1322:A:C5	25:DA:1323:U:C5	3.01	0.48
25:DA:410:G:C2	25:DA:418:G:C2	3.01	0.48
22:CT:16:HIS:O	22:CT:20:LEU:HG	2.13	0.48
1:CA:274:A:H4'	1:CA:275:G:OP1	2.13	0.48
41:DU:3:ARG:HD3	25:DA:446:G:OP1	2.13	0.48
6:CD:33:MET:HG2	6:CD:37:PRO:HA	1.94	0.48
5:CC:79:ARG:N	5:CC:79:ARG:HD3	2.27	0.48
5:AC:79:ARG:HD3	5:AC:79:ARG:N	2.27	0.48
1:AA:164:U:H2'	1:AA:165:C:C6	2.48	0.48
2:AY:7:G:H3'	2:AY:8:U:C5'	2.43	0.48
25:DA:951:C:H2'	25:DA:952:G:H8	1.78	0.48
2:CZ:19:G:H4'	2:CZ:20:U:OP2	2.13	0.48
44:BX:21:PHE:CD2	44:BX:26:TYR:HD2	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BX:89:ILE:HG13	44:BX:92:LEU:HD12	1.93	0.48
1:AA:1346:A:N6	1:AA:1374:A:H3'	2.27	0.48
18:AP:8:ARG:HB3	18:AP:28:ARG:NH1	2.28	0.48
30:DG:84:LYS:HB3	30:DG:86:MET:SD	2.53	0.48
40:BT:75:ILE:N	40:BT:75:ILE:HD12	2.28	0.48
1:AA:939:G:H5''	9:AG:102:ARG:CZ	2.43	0.48
18:CP:20:VAL:HG23	18:CP:35:LYS:HA	1.95	0.48
4:CB:154:LEU:HD13	4:CB:155:LEU:N	2.28	0.48
25:DA:2846:G:H2'	25:DA:2847:U:O4'	2.13	0.48
6:AD:4:TYR:HE1	6:AD:11:LEU:CD1	2.26	0.48
25:DA:828:U:H4'	25:DA:831:G:N1	2.27	0.48
25:DA:1678:G:H2'	25:DA:1679:U:C6	2.47	0.48
4:AB:102:LEU:HB2	4:AB:176:GLU:OE1	2.13	0.48
32:BI:12:LEU:H	32:BI:12:LEU:HD22	1.78	0.48
40:DT:60:THR:HG22	40:DT:77:PRO:HA	1.95	0.48
53:D6:15:GLU:HG2	53:D6:16:CYS:N	2.27	0.48
25:DA:2023:G:H4'	25:DA:2617:C:O3'	2.13	0.48
10:AH:97:VAL:HG13	10:AH:98:LYS:N	2.28	0.48
1:AA:1016:A:H2'	1:AA:1017:G:O4'	2.12	0.48
25:DA:1125:G:C6	25:DA:1126:A:N6	2.81	0.48
1:AA:262:A:H5'	22:AT:74:LYS:HG3	1.94	0.48
8:AF:10:LEU:HD13	8:AF:61:LEU:HD13	1.95	0.48
1:CA:1320:C:H42	21:CS:36:ARG:HG3	1.77	0.48
25:DA:286:C:H2'	25:DA:287:C:H6	1.78	0.48
25:BA:286:C:H2'	25:BA:287:C:H6	1.77	0.48
28:BE:54:GLN:HB2	28:BE:74:PRO:O	2.12	0.48
1:AA:42:G:H2'	1:AA:43:C:C6	2.48	0.48
22:AT:30:LYS:O	22:AT:33:ILE:HB	2.13	0.48
19:CQ:37:LYS:C	19:CQ:38:ARG:HD2	2.33	0.48
41:BU:8:VAL:HG13	41:BU:11:ARG:HH21	1.78	0.48
28:DE:61:ARG:HD3	25:DA:2633:G:O2'	2.14	0.48
1:CA:1089:G:C6	1:CA:1090:U:C4	3.01	0.48
13:CK:48:ILE:HD11	13:CK:64:ALA:HA	1.94	0.48
25:BA:2307:G:O5'	25:BA:2307:G:H8	1.95	0.48
19:AQ:99:SER:O	19:AQ:100:LYS:HD3	2.13	0.48
1:AA:217:C:H2'	1:AA:218:C:H6	1.77	0.48
46:DZ:54:HIS:CG	46:DZ:101:PRO:HG3	2.49	0.48
25:BA:1203:G:O6	25:BA:1204:A:N6	2.46	0.48
25:BA:1763:G:H2'	25:BA:1764:G:H5'	1.95	0.48
25:DA:823:G:H2'	25:DA:824:A:C8	2.48	0.48
25:BA:1863:G:H2'	25:BA:1864:U:O4'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1831:G:H2'	25:DA:1832:C:C6	2.48	0.48
25:BA:86:C:H2'	25:BA:87:C:H6	1.78	0.48
22:CT:53:LEU:O	22:CT:57:ARG:HD3	2.14	0.48
8:CF:98:LEU:HD12	8:CF:98:LEU:O	2.14	0.48
25:BA:2197:U:O2'	25:BA:2198:A:H5''	2.13	0.48
41:BU:88:ILE:HB	41:BU:90:VAL:CG1	2.35	0.48
42:BV:2:PHE:HD2	42:BV:13:ARG:HB2	1.78	0.48
42:BV:52:VAL:CG1	42:BV:55:ALA:HB3	2.43	0.48
27:BD:243:GLY:O	27:BD:244:ARG:CB	2.61	0.48
45:DY:2:ARG:NH2	25:DA:81:G:H21	2.11	0.48
36:BP:95:VAL:CG2	36:BP:125:VAL:HA	2.40	0.48
24:AX:96:LEU:HG	24:AX:348:LEU:HB2	1.95	0.48
24:CX:93:GLU:CD	24:CX:344:GLN:HB3	2.34	0.48
18:CP:28:ARG:NH1	18:CP:28:ARG:HG2	2.16	0.48
1:AA:1409:C:H2'	1:AA:1410:G:C8	2.48	0.48
39:BS:35:ILE:H	39:BS:53:SER:HB3	1.79	0.48
27:DD:9:TYR:CE1	25:DA:705:A:H1'	2.47	0.48
27:DD:72:LYS:HE3	27:DD:101:GLU:HB3	1.94	0.48
25:BA:1153:C:H5'	41:BU:76:TYR:CE2	2.48	0.48
4:AB:154:LEU:HD13	4:AB:155:LEU:N	2.27	0.48
1:CA:1182:G:H4'	1:CA:1183:A:C5'	2.41	0.48
49:D2:47:ASN:HD22	25:DA:94:G:N2	2.11	0.48
15:CM:22:ILE:HB	15:CM:25:ILE:HB	1.95	0.48
45:BY:17:SER:CB	45:BY:71:LYS:HD2	2.43	0.48
39:DS:96:GLY:HA3	26:DB:49:C:OP1	2.13	0.48
1:AA:694:A:O2'	2:AZ:38:A:H1'	2.14	0.48
39:BS:93:LYS:HE3	39:BS:93:LYS:HA	1.95	0.48
34:BN:58:ARG:HB2	34:BN:65:TRP:CH2	2.48	0.48
40:BT:86:ILE:O	40:BT:86:ILE:HD13	2.12	0.48
31:DH:104:GLU:HA	31:DH:113:VAL:O	2.12	0.48
46:DZ:8:TYR:HB2	46:DZ:38:TYR:CE2	2.48	0.48
46:BZ:8:TYR:HB2	46:BZ:38:TYR:CE2	2.49	0.48
1:CA:542:G:H5'	6:CD:41:GLY:CA	2.43	0.48
1:CA:624:C:H2'	1:CA:625:G:H8	1.78	0.48
25:DA:2228:G:H2'	25:DA:2229:C:O4'	2.13	0.48
1:CA:524:G:H2'	1:CA:525:C:C6	2.48	0.48
1:AA:1479:C:H2'	1:AA:1480:G:H8	1.78	0.48
25:DA:529:A:H62	25:DA:2041:U:H3	1.60	0.48
24:AX:10:GLU:O	24:AX:14:GLU:HB2	2.13	0.48
1:CA:1479:C:H2'	1:CA:1480:G:H8	1.78	0.48
1:CA:841:U:O2'	1:CA:842:C:H5''	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AB:158:LEU:H	4:AB:158:LEU:HD12	1.79	0.48
25:DA:333:G:N3	25:DA:333:G:H2'	2.29	0.48
30:DG:153:ARG:HB3	30:DG:153:ARG:NH1	2.29	0.48
1:AA:1262:C:H2'	1:AA:1263:C:C6	2.49	0.48
37:BQ:20:ALA:HA	37:BQ:98:LYS:HB2	1.94	0.48
27:DD:231:HIS:ND1	27:DD:232:PRO:HD2	2.27	0.48
37:BQ:48:GLU:O	37:BQ:52:VAL:HG12	2.13	0.48
41:DU:92:ARG:HG2	42:DV:11:GLN:CG	2.44	0.48
25:DA:2781:A:H5'	25:DA:2782:G:C5'	2.35	0.48
5:CC:22:TRP:CE2	16:CN:54:PRO:HG2	2.48	0.48
14:AL:23:VAL:HG13	14:AL:97:TYR:HE2	1.78	0.48
30:DG:91:ARG:HG2	30:DG:92:VAL:N	2.27	0.48
36:BP:47:ASP:H	36:BP:48:PRO:HA	1.77	0.48
25:BA:1152:C:H2'	25:BA:1153:C:C6	2.46	0.48
1:AA:1502:A:H8	1:AA:1505:G:H22	1.58	0.48
1:AA:1079:G:O3'	7:AE:14:ARG:NH2	2.46	0.48
14:AL:74:HIS:HD2	14:AL:76:LEU:HB2	1.78	0.48
42:DV:15:GLU:HB2	42:DV:18:LEU:HG	1.94	0.48
21:AS:63:THR:HG23	21:AS:65:ASN:H	1.78	0.48
25:DA:1550:C:H2'	25:DA:1551:C:H6	1.79	0.48
45:DY:71:LYS:HZ2	45:DY:71:LYS:HB2	1.78	0.48
1:AA:191(G):G:C4	22:AT:105:SER:HB3	2.49	0.48
25:BA:2169:A:H2'	25:BA:2170:A:C8	2.47	0.48
48:B1:83:GLU:HG2	48:B1:84:GLY:H	1.78	0.48
25:BA:1292:U:H2'	25:BA:1293:C:H6	1.77	0.48
25:BA:414:C:H2'	25:BA:415:A:H8	1.78	0.48
1:AA:197:A:C6	1:AA:221:C:H4'	2.49	0.48
1:AA:1034:G:H2'	1:AA:1035:A:H8	1.77	0.48
13:CK:120:ARG:HH21	13:CK:126:ARG:NH2	2.11	0.48
2:CY:7:G:H3'	2:CY:8:U:C5'	2.43	0.48
2:AZ:19:G:H4'	2:AZ:20:U:OP2	2.13	0.48
25:BA:1355:G:H2'	25:BA:1356:G:H8	1.78	0.48
1:AA:103(A):A:H2'	1:AA:103(B):G:O4'	2.13	0.48
17:CO:29:VAL:HG11	17:CO:81:LEU:HD21	1.95	0.48
40:BT:57:PHE:CG	40:BT:58:ASN:N	2.81	0.48
25:BA:2507:C:H2'	25:BA:2508:G:O4'	2.14	0.48
25:DA:463:G:N1	25:DA:467:G:C6	2.81	0.48
25:DA:372:G:H22	25:DA:400:G:H2'	1.78	0.48
25:DA:191:A:H2'	25:DA:192:C:C6	2.47	0.48
25:BA:2529:G:O5'	25:BA:2529:G:H8	1.97	0.48
25:BA:2781:A:H5'	25:BA:2782:G:C5'	2.35	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DY:4:LYS:N	45:DY:4:LYS:HD3	2.27	0.48
14:CL:51:LEU:HD12	14:CL:51:LEU:H	1.78	0.48
40:DT:51:ARG:HB3	40:DT:62:THR:HG23	1.94	0.48
25:BA:2686:G:H2'	25:BA:2687:U:C6	2.48	0.48
25:DA:1189:A:H3'	25:DA:1190:G:C5'	2.38	0.48
35:DO:38:VAL:HG12	35:DO:61:VAL:HB	1.95	0.48
46:BZ:56:VAL:HG22	46:BZ:70:LEU:HD22	1.95	0.48
13:AK:52:GLY:H	13:AK:55:LYS:HZ1	1.58	0.48
25:BA:1550:C:H2'	25:BA:1551:C:H6	1.78	0.48
38:BR:12:ARG:HH22	38:BR:40:LYS:NZ	2.11	0.48
53:D6:11:LEU:HD13	53:D6:12:GLU:N	2.28	0.48
25:BA:2846:G:H2'	25:BA:2847:U:O4'	2.14	0.48
25:DA:1762:A:H8	25:DA:1762:A:O5'	1.96	0.48
12:AJ:74:ILE:HD13	12:AJ:74:ILE:N	2.27	0.48
25:BA:1498:C:OP2	25:BA:1498:C:H3'	2.14	0.48
25:DA:953:A:H2'	25:DA:954:G:C8	2.47	0.48
25:BA:161:U:H3'	25:BA:162:U:C5'	2.43	0.48
25:DA:412:A:H3'	25:DA:413:C:C6	2.49	0.48
53:D6:15:GLU:HG2	53:D6:16:CYS:H	1.79	0.48
25:BA:2193:G:H2'	25:BA:2194:G:H8	1.78	0.48
40:DT:86:ILE:O	40:DT:86:ILE:HD13	2.13	0.48
25:BA:859:G:H22	25:BA:916:G:H2'	1.77	0.48
25:BA:2619:C:H2'	25:BA:2620:C:H6	1.78	0.48
31:DH:105:LEU:HD22	31:DH:113:VAL:HB	1.94	0.48
25:DA:481:G:H1'	25:DA:506:G:N2	2.28	0.48
25:BA:583:G:C5	25:BA:584:C:C5	3.01	0.48
2:AY:21:A:H5'	2:AY:21:A:H8	1.78	0.48
25:DA:2304:G:H1	25:DA:2312:U:H3	1.61	0.48
11:AI:7:THR:O	11:AI:83:ARG:HD2	2.13	0.48
9:AG:126:ASP:HB3	9:AG:131:LYS:O	2.13	0.48
25:BA:2453:A:O2'	25:BA:2572:A:H1'	2.13	0.48
25:DA:1820:U:H4'	25:DA:1821:A:OP2	2.12	0.48
43:DW:6:ILE:HG12	43:DW:104:THR:HG23	1.95	0.48
25:BA:2026:C:C4	25:BA:2027:G:N7	2.82	0.48
34:DN:64:ASP:HA	41:DU:64:ARG:HH11	1.79	0.48
25:BA:1282:U:H2'	25:BA:1283:G:O4'	2.13	0.48
32:BI:102:SER:O	32:BI:106:GLY:HA2	2.14	0.48
2:CZ:58:A:H4'	2:CZ:59:A:OP1	2.14	0.48
25:BA:636:G:OP1	36:BP:132:LYS:HD3	2.14	0.48
35:DO:112:MET:O	35:DO:115:VAL:HG22	2.13	0.48
13:AK:48:ILE:HD11	13:AK:64:ALA:HA	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:192:U:H2'	1:CA:193:C:C6	2.48	0.48
55:B8:6:THR:HG23	55:B8:63:PRO:HG2	1.95	0.48
1:CA:665:A:H2'	1:CA:725:G:N2	2.28	0.48
25:BA:124:G:C6	54:B7:19:ARG:NH2	2.79	0.48
6:AD:122:ARG:HD3	6:AD:122:ARG:O	2.12	0.48
24:AX:9:GLU:HA	24:AX:12:TYR:CD1	2.49	0.48
25:BA:149:A:H2'	25:BA:150:C:C6	2.49	0.48
24:CX:123:PHE:CE1	24:CX:180:VAL:HB	2.48	0.48
35:BO:1:MET:C	35:BO:2:ILE:HD12	2.34	0.48
7:AE:83:GLU:HG2	7:AE:88:LYS:HG3	1.96	0.48
44:DX:51:VAL:HA	44:DX:83:VAL:HA	1.95	0.48
27:BD:231:HIS:HE1	27:BD:233:HIS:ND1	2.11	0.48
44:BX:40:LYS:CD	44:BX:51:VAL:HB	2.43	0.48
49:B2:2:LYS:H	49:B2:2:LYS:CD	2.26	0.48
5:CC:105:GLU:HG2	5:CC:106:VAL:N	2.21	0.48
25:BA:2680:C:H2'	25:BA:2681:C:O2	2.13	0.48
14:CL:65:VAL:HG11	14:CL:97:TYR:CD1	2.49	0.48
5:AC:22:TRP:CZ3	5:AC:24:ALA:HB2	2.49	0.48
6:AD:28:SER:HB3	6:AD:29:PRO:CD	2.41	0.48
37:DQ:7:MET:O	25:DA:870:A:H5'	2.13	0.48
32:BI:107:ILE:HG13	32:BI:109:ILE:HG23	1.95	0.48
1:AA:1521:G:H2'	1:AA:1522:U:C6	2.48	0.48
25:DA:2104:G:H2'	25:DA:2105:C:C6	2.49	0.48
25:BA:2745:C:H2'	25:BA:2746:U:C6	2.48	0.48
12:CJ:75:ILE:CG1	12:CJ:76:ASN:H	2.26	0.48
25:BA:2305:A:H1'	30:BG:135:LEU:O	2.13	0.48
25:DA:1441:G:H2'	25:DA:1442:G:H8	1.78	0.48
49:D2:61:LEU:O	49:D2:65:ASN:N	2.46	0.48
14:AL:83:LEU:HG	14:AL:104:TYR:CE1	2.49	0.48
30:DG:133:LEU:HD11	30:DG:157:ILE:HD11	1.95	0.48
1:AA:714:G:H21	1:AA:777:A:H1'	1.77	0.48
1:AA:779:C:O2'	1:AA:780:A:H5'	2.13	0.48
1:CA:1366:C:H2'	1:CA:1367:C:C6	2.48	0.48
1:AA:1203:C:H2'	1:AA:1204:A:C8	2.47	0.48
25:DA:2210:G:N3	25:DA:2210:G:H5''	2.28	0.48
1:CA:1017:G:H2'	1:CA:1018:C:H6	1.76	0.48
25:BA:412:A:H3'	25:BA:413:C:C6	2.49	0.48
7:AE:18:ARG:HH21	7:AE:25:ARG:HB2	1.79	0.48
1:CA:1053:G:C3'	1:CA:1054:C:H5'	2.43	0.48
1:AA:79:G:H1	1:AA:90:C:H42	1.61	0.48
1:AA:539:A:H2'	1:AA:540:G:H8	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:542:G:H2'	1:AA:543:C:C6	2.48	0.48
25:BA:7:G:H2'	25:BA:8:A:C8	2.48	0.48
25:DA:583:G:C5	25:DA:584:C:C5	3.02	0.48
25:BA:2336:A:H3'	25:BA:2337:G:H8	1.79	0.48
55:B8:11:LYS:HD3	55:B8:11:LYS:C	2.34	0.48
1:AA:624:C:O3'	18:AP:10:GLY:HA2	2.13	0.48
1:CA:624:C:O3'	18:CP:10:GLY:HA2	2.14	0.48
25:BA:150:C:H2'	25:BA:151:C:C6	2.49	0.48
25:DA:86:C:H2'	25:DA:87:C:H6	1.78	0.48
25:BA:2565:A:H5''	25:BA:2566:A:OP2	2.13	0.48
1:AA:323:U:O3'	22:AT:22:ARG:HD3	2.13	0.48
1:AA:192:U:H2'	1:AA:193:C:C6	2.49	0.48
25:BA:728:G:C2	25:BA:730:C:C2	3.02	0.48
1:AA:1208:C:H2'	1:AA:1209:C:C6	2.49	0.48
25:BA:1295:C:H2'	25:BA:1296:G:H8	1.79	0.48
30:BG:153:ARG:NH1	30:BG:153:ARG:HB3	2.29	0.48
1:CA:44:G:H2'	1:CA:45:U:C6	2.49	0.48
24:AX:263:GLU:O	24:AX:267:MET:HG2	2.13	0.48
6:CD:8:VAL:C	6:CD:10:ARG:H	2.15	0.48
25:DA:1829:A:H2'	25:DA:1830:C:O5'	2.13	0.48
28:DE:69:LYS:O	28:DE:69:LYS:HD3	2.14	0.48
19:AQ:37:LYS:C	19:AQ:38:ARG:HD2	2.33	0.48
1:CA:131:C:H2'	1:CA:132:C:C6	2.48	0.48
42:BV:22:VAL:CG1	42:BV:23:GLU:N	2.74	0.48
36:DP:146:VAL:HG22	36:DP:147:LEU:N	2.23	0.48
44:BX:40:LYS:HE3	44:BX:51:VAL:O	2.13	0.48
25:BA:1418:G:H22	25:BA:1579:A:H5'	1.79	0.48
36:DP:62:LEU:HD12	25:DA:2393:A:H5'	1.95	0.48
40:BT:51:ARG:HB3	40:BT:62:THR:CG2	2.43	0.48
5:CC:22:TRP:HZ3	5:CC:24:ALA:HB2	1.79	0.48
25:BA:2056:G:H2'	25:BA:2056:G:N3	2.28	0.48
28:BE:67:PHE:HE2	28:BE:75:VAL:HG22	1.78	0.48
25:BA:1653:G:OP1	38:BR:4:LEU:HD22	2.14	0.48
25:BA:2591:C:OP2	27:BD:239:ARG:HB2	2.13	0.48
11:AI:48:GLU:N	11:AI:49:PRO:CD	2.75	0.48
1:CA:676:A:H1'	13:CK:115:PRO:HB3	1.95	0.48
32:DI:67:ARG:O	32:DI:71:ILE:HG22	2.12	0.48
20:CR:63:GLN:O	20:CR:66:LEU:HB3	2.13	0.48
31:BH:137:ASP:HB3	31:BH:140:LYS:HD2	1.95	0.48
1:CA:1521:G:H2'	1:CA:1522:U:C6	2.49	0.48
49:D2:47:ASN:HD22	25:DA:94:G:H21	1.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:145:G:H2'	1:CA:146:G:C8	2.48	0.48
25:BA:444:C:O5'	41:BU:2:PRO:HD3	2.13	0.48
25:BA:2119:A:H61	25:BA:2168:G:H1'	1.78	0.48
25:BA:2574:G:H2'	25:BA:2575:C:C6	2.48	0.48
14:AL:5:THR:HG23	14:AL:8:GLN:NE2	2.29	0.48
25:DA:680:G:C6	25:DA:681:G:C6	3.01	0.48
42:BV:99:ILE:HD13	42:BV:99:ILE:N	2.29	0.48
25:BA:674:G:H2'	25:BA:804:A:H61	1.78	0.48
6:CD:8:VAL:HB	6:CD:21:LEU:HD22	1.95	0.48
1:AA:272:C:H2'	1:AA:273:A:H8	1.78	0.48
22:AT:16:HIS:O	22:AT:20:LEU:HG	2.13	0.48
11:CI:26:VAL:HG13	11:CI:61:ALA:HB3	1.96	0.48
25:BA:823:G:H2'	25:BA:824:A:C8	2.48	0.48
30:BG:121:ASN:HD22	30:BG:122:PRO:HD2	1.78	0.48
24:AX:150:THR:HG23	24:AX:153:GLY:O	2.14	0.48
1:CA:272:C:H2'	1:CA:273:A:H8	1.78	0.48
25:BA:298:G:O5'	25:BA:298:G:H8	1.96	0.48
39:BS:90:GLY:O	39:BS:92:TYR:N	2.47	0.48
25:BA:67:U:H2'	25:BA:68:G:C8	2.49	0.48
37:DQ:59:ARG:HA	46:DZ:179:ASP:OD2	2.13	0.48
17:AO:24:SER:O	17:AO:28:GLN:HG3	2.12	0.48
4:AB:74:LYS:O	4:AB:78:GLN:HG3	2.13	0.48
5:AC:61:ALA:O	5:AC:62:ASP:HB2	2.13	0.48
9:CG:126:ASP:HB3	9:CG:131:LYS:O	2.14	0.48
25:BA:372:G:H22	25:BA:400:G:H2'	1.79	0.48
1:CA:1319:A:H8	1:CA:1319:A:H5''	1.79	0.48
25:DA:114:U:H2'	25:DA:115:C:C6	2.47	0.48
25:DA:1587:A:H2'	25:DA:1588:C:C6	2.48	0.48
31:BH:17:VAL:HG22	31:BH:26:VAL:HG22	1.95	0.48
27:DD:242:ARG:HE	25:DA:1826:G:C4'	2.09	0.48
45:BY:96:ILE:HG23	45:BY:101:LYS:O	2.14	0.48
25:DA:1543:A:H5'	25:DA:1544:C:OP2	2.13	0.48
25:DA:274:G:H5''	25:DA:274:G:H8	1.78	0.48
36:DP:95:VAL:CG2	36:DP:125:VAL:HA	2.39	0.48
1:CA:529:G:H22	14:CL:50:ALA:HB2	1.78	0.48
28:DE:51:PHE:HD1	28:DE:52:LEU:HG	1.79	0.48
25:BA:870:A:H5'	37:BQ:7:MET:O	2.13	0.48
26:DB:42:C:H2'	26:DB:43:C:C6	2.49	0.48
35:BO:61:VAL:N	35:BO:87:ILE:HD11	2.29	0.48
34:BN:88:LYS:CB	34:BN:92:GLN:HB2	2.44	0.48
25:DA:848:G:O6	25:DA:929:G:H2'	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BQ:141:GLN:HE21	46:BZ:72:ARG:HG2	1.77	0.48
41:DU:55:ARG:HG2	41:DU:58:ARG:NH1	2.28	0.48
25:DA:1772:G:N2	25:DA:1774:C:H5'	2.29	0.48
38:DR:12:ARG:HH22	38:DR:40:LYS:NZ	2.11	0.48
25:BA:1276:A:O2'	38:BR:16:HIS:HE1	1.96	0.48
40:DT:54:ARG:HB2	25:DA:2846:G:OP2	2.13	0.48
20:AR:54:ARG:H	20:AR:54:ARG:HD2	1.76	0.48
25:DA:2406:U:H4'	25:DA:2407:G:H5''	1.96	0.48
25:BA:2406:U:H4'	25:BA:2407:G:H5''	1.96	0.48
25:DA:2436:G:H2'	25:DA:2437:U:C6	2.46	0.48
27:BD:9:TYR:CD2	27:BD:10:THR:HG22	2.47	0.48
39:BS:94:TYR:CE1	39:BS:99:LYS:HG3	2.49	0.48
22:CT:48:LYS:HD3	22:CT:51:GLU:CD	2.34	0.48
29:BF:34:TRP:HB2	36:BP:10:PRO:O	2.13	0.48
1:CA:262:A:H5'	22:CT:74:LYS:HG3	1.95	0.48
25:BA:185:U:H4'	25:BA:218:A:H4'	1.96	0.48
34:BN:160:LYS:CD	34:BN:161:LEU:H	2.27	0.48
24:CX:311:ARG:HG2	24:CX:313:THR:HG23	1.96	0.48
31:DH:158:HIS:CD2	31:DH:160:LYS:HE2	2.47	0.48
43:DW:19:LEU:HB3	52:D5:25:LEU:HD12	1.95	0.48
25:DA:1486:A:N6	25:DA:1504:C:H42	2.12	0.48
25:DA:930:U:H4'	25:DA:931:G:O5'	2.14	0.48
31:DH:86:GLU:HB3	31:DH:132:ARG:NH1	2.28	0.48
25:BA:1322:A:C5	25:BA:1323:U:C5	3.02	0.48
40:BT:98:LYS:HB3	40:BT:100:TYR:CE1	2.48	0.48
12:CJ:8:LEU:HD21	12:CJ:23:ILE:HD12	1.95	0.48
30:DG:121:ASN:HD22	30:DG:122:PRO:HD2	1.78	0.48
36:DP:13:ASN:HD22	36:DP:13:ASN:N	2.10	0.48
4:CB:74:LYS:O	4:CB:78:GLN:HG3	2.13	0.48
25:BA:1429:G:H2'	25:BA:1430:C:C6	2.48	0.48
7:CE:45:PHE:CE2	7:CE:47:LYS:HD2	2.48	0.48
25:DA:1301:A:C8	25:DA:1303:G:C8	3.02	0.48
1:AA:1089:G:C6	1:AA:1090:U:C4	3.02	0.48
27:DD:246:PRO:HD2	27:DD:255:LYS:HD3	1.95	0.48
30:BG:72:ARG:HD3	30:BG:86:MET:O	2.13	0.48
30:DG:83:ARG:CG	30:DG:84:LYS:H	2.14	0.48
36:BP:59:LEU:HG	36:BP:59:LEU:O	2.14	0.48
25:BA:1190:G:H5'	25:BA:1190:G:C8	2.49	0.48
27:BD:108:PRO:HB3	27:BD:143:HIS:CE1	2.49	0.48
18:AP:20:VAL:HG23	18:AP:35:LYS:HA	1.96	0.48
47:B0:48:GLY:HA3	47:B0:80:HIS:ND1	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:848:G:O6	25:BA:929:G:H2'	2.14	0.48
47:D0:48:GLY:HA3	47:D0:80:HIS:ND1	2.29	0.48
24:AX:81:LEU:O	24:AX:85:LYS:HG2	2.14	0.48
24:AX:61:ALA:CB	24:AX:74:ALA:HB2	2.43	0.48
12:AJ:55:LYS:O	12:AJ:56:HIS:CG	2.67	0.48
4:CB:24:TRP:CD1	4:CB:40:HIS:HE1	2.31	0.48
25:BA:1061:U:H4'	25:BA:1070:A:H4'	1.96	0.48
2:CZ:36:U:H2'	2:CZ:37:A:O4'	2.13	0.48
2:AZ:36:U:H2'	2:AZ:37:A:O4'	2.12	0.48
5:AC:19:GLU:HA	5:AC:54:ARG:NE	2.29	0.48
32:DI:12:LEU:HD22	32:DI:12:LEU:H	1.78	0.48
22:AT:64:ASP:O	22:AT:67:ALA:HB3	2.14	0.48
25:BA:2193:G:H2'	25:BA:2194:G:C8	2.49	0.48
25:DA:2282:G:C2	25:DA:2425:A:C5	3.02	0.48
1:CA:1293:G:HO2'	1:CA:1294:G:H8	1.59	0.48
6:AD:64:LEU:O	6:AD:67:ILE:HB	2.13	0.48
35:DO:79:PHE:CD2	40:DT:72:VAL:HG22	2.48	0.48
8:AF:79:LEU:HB2	8:AF:88:VAL:HG11	1.94	0.48
25:BA:1332:G:H5'	25:BA:1333:C:H5	1.79	0.48
1:AA:1244:C:H2'	1:AA:1245:A:C8	2.49	0.48
25:DA:2462:U:H2'	25:DA:2463:C:O4'	2.14	0.48
38:BR:53:HIS:O	38:BR:56:LYS:HB3	2.13	0.48
25:DA:177:G:H3'	25:DA:178:G:H8	1.79	0.48
1:CA:1149:C:H2'	1:CA:1150:U:C6	2.49	0.48
7:AE:45:PHE:CE2	7:AE:47:LYS:HD2	2.49	0.48
8:AF:44:GLY:HA2	8:AF:59:TYR:CZ	2.49	0.48
25:BA:951:C:H2'	25:BA:952:G:H8	1.78	0.48
31:BH:158:HIS:CD2	31:BH:160:LYS:HE2	2.49	0.48
24:AX:123:PHE:CE1	24:AX:180:VAL:HB	2.49	0.48
17:CO:48:LYS:HE2	17:CO:48:LYS:HA	1.96	0.48
25:DA:1642:G:O5'	25:DA:1642:G:H8	1.96	0.48
1:AA:12:U:H2'	1:AA:13:U:H5''	1.96	0.48
32:DI:87:LYS:HA	32:DI:122:GLU:HA	1.96	0.48
25:BA:1826:G:C4'	27:BD:242:ARG:HE	2.11	0.48
25:BA:2069:G:N2	25:BA:2443:C:C2	2.82	0.48
14:CL:44:PRO:HG2	14:CL:50:ALA:N	2.28	0.48
25:BA:1997:G:C2	25:BA:1998:G:C5	3.02	0.48
26:BB:42:C:H2'	26:BB:43:C:C6	2.49	0.48
25:DA:1997:G:C2	25:DA:1998:G:C5	3.02	0.48
27:BD:85:ASP:HB2	27:BD:92:ILE:HG23	1.96	0.48
1:AA:674:G:H2'	1:AA:675:A:H8	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BV:15:GLU:HB2	42:BV:18:LEU:HG	1.94	0.48
25:BA:2645:G:H3'	25:BA:2646:C:C5'	2.43	0.48
25:BA:2275:C:H5'	25:BA:2275:C:C6	2.47	0.48
6:AD:121:VAL:O	6:AD:134:ASP:HA	2.13	0.48
21:AS:16:LEU:O	21:AS:19:VAL:HG12	2.14	0.48
47:D0:31:VAL:HB	47:D0:35:ASN:ND2	2.29	0.48
28:DE:169:ASN:CG	28:DE:201:THR:HG21	2.34	0.48
30:DG:39:ILE:HG22	30:DG:40:ASN:N	2.28	0.48
22:CT:50:GLU:HG3	22:CT:51:GLU:N	2.28	0.48
1:CA:1443:G:O2'	1:CA:1446:A:H5''	2.13	0.48
25:BA:2543:G:H2'	25:BA:2544:G:C8	2.48	0.48
46:DZ:20:ARG:NH2	26:DB:93:C:H5''	2.28	0.48
35:BO:35:VAL:HG11	35:BO:103:ALA:HB3	1.95	0.48
22:CT:64:ASP:O	22:CT:67:ALA:HB3	2.14	0.48
31:DH:103:LEU:HD22	31:DH:123:PHE:CE1	2.49	0.48
25:BA:2623:G:H2'	25:BA:2624:G:H8	1.79	0.48
43:BW:15:ARG:O	43:BW:19:LEU:HD13	2.14	0.48
10:CH:73:ASP:CG	10:CH:75:ARG:HD3	2.34	0.48
27:DD:202:LYS:HG3	27:DD:203:ASN:OD1	2.14	0.48
43:DW:19:LEU:O	43:DW:23:LEU:HD13	2.14	0.48
39:DS:90:GLY:O	39:DS:92:TYR:N	2.47	0.48
1:CA:12:U:H2'	1:CA:13:U:H5''	1.96	0.48
25:DA:150:C:H2'	25:DA:151:C:C6	2.49	0.48
25:DA:2733:A:H2'	25:DA:2734:A:O4'	2.14	0.48
34:DN:77:VAL:HB	34:DN:145:VAL:HG22	1.96	0.48
40:DT:57:PHE:CG	40:DT:58:ASN:N	2.81	0.48
4:AB:116:GLU:HA	4:AB:119:GLU:OE1	2.14	0.48
25:DA:2395:C:H2'	25:DA:2396:G:O4'	2.14	0.48
25:BA:2791:C:H4'	25:BA:2792:G:O5'	2.13	0.48
9:CG:137:LYS:O	9:CG:141:VAL:HG23	2.14	0.48
25:DA:2026:C:C4	25:DA:2027:G:N7	2.82	0.48
25:BA:1301:A:C8	25:BA:1303:G:C8	3.02	0.48
49:B2:6:VAL:O	49:B2:9:GLN:HB2	2.14	0.48
1:CA:1409:C:H2'	1:CA:1410:G:C8	2.48	0.48
52:D5:2:ALA:CA	25:DA:2015:A:H1'	2.34	0.47
1:CA:939:G:H5''	9:CG:102:ARG:NH2	2.29	0.47
5:AC:179:ARG:HD2	5:AC:207:VAL:H	1.79	0.47
1:AA:1355:G:C6	1:AA:1368:G:C6	3.02	0.47
1:CA:1432:G:OP1	40:DT:107:ASP:HB2	2.13	0.47
55:B8:50:LEU:HB2	55:B8:54:GLU:CG	2.44	0.47
43:DW:30:GLU:HA	43:DW:33:ARG:HD2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:DG:13:GLU:O	30:DG:14:GLU:HB2	2.14	0.47
53:B6:15:GLU:HG2	53:B6:16:CYS:H	1.78	0.47
30:BG:133:LEU:HD11	30:BG:157:ILE:HD11	1.96	0.47
29:BF:24:LEU:CD1	29:BF:24:LEU:H	2.27	0.47
25:BA:389:G:C8	25:BA:2413:G:H4'	2.49	0.47
25:BA:1655:A:O2'	28:BE:115:GLY:HA2	2.14	0.47
39:BS:96:GLY:O	39:BS:99:LYS:HB3	2.14	0.47
28:DE:115:GLY:HA2	25:DA:1655:A:O2'	2.14	0.47
25:DA:323:G:HO2'	25:DA:1205:U:H3	1.62	0.47
27:DD:70:TRP:O	27:DD:73:VAL:HG23	2.14	0.47
19:CQ:59:ILE:HD12	19:CQ:59:ILE:N	2.29	0.47
25:BA:791:C:H4'	25:BA:792:G:OP1	2.14	0.47
25:DA:2336:A:H3'	25:DA:2337:G:H8	1.78	0.47
2:AY:7:G:H3'	2:AY:8:U:H5'	1.96	0.47
43:DW:15:ARG:O	43:DW:19:LEU:HD13	2.13	0.47
25:BA:994:C:OP1	41:BU:53:ARG:NH2	2.47	0.47
24:CX:10:GLU:O	24:CX:14:GLU:HB2	2.13	0.47
25:BA:269:U:C4	25:BA:271(A):U:C2	3.02	0.47
1:AA:841:U:O2'	1:AA:842:C:H5''	2.13	0.47
37:BQ:112:GLU:CD	37:BQ:112:GLU:H	2.18	0.47
1:AA:1493:A:H5''	3:AV:19:U:O2'	2.13	0.47
25:BA:839:U:H2'	25:BA:840:C:C6	2.49	0.47
11:CI:7:THR:O	11:CI:83:ARG:HD2	2.13	0.47
30:BG:62:LEU:HB3	30:BG:143:GLU:HG3	1.94	0.47
1:AA:139:G:H2'	1:AA:140:A:H8	1.79	0.47
15:CM:106:ASN:O	15:CM:107:ALA:HB3	2.14	0.47
25:DA:1863:G:H2'	25:DA:1864:U:O4'	2.13	0.47
29:BF:139:PHE:CE2	29:BF:167:ALA:HB2	2.49	0.47
25:DA:2552:U:H2'	25:DA:2554:U:OP2	2.13	0.47
24:AX:222:MET:HG2	25:BA:2555:U:H3	1.79	0.47
30:BG:60:LEU:O	30:BG:64:THR:HG22	2.14	0.47
5:CC:179:ARG:HD2	5:CC:207:VAL:H	1.79	0.47
29:DF:41:LEU:O	29:DF:45:ARG:HG3	2.14	0.47
4:CB:187:LEU:HD22	4:CB:188:ALA:N	2.29	0.47
34:DN:88:LYS:CB	34:DN:92:GLN:HB2	2.44	0.47
25:DA:1061:U:H4'	25:DA:1070:A:C4'	2.44	0.47
25:DA:1061:U:H4'	25:DA:1070:A:H4'	1.96	0.47
25:BA:2846:G:OP2	40:BT:54:ARG:HB2	2.14	0.47
34:DN:36:TRP:HB2	34:DN:156:GLN:HB3	1.95	0.47
15:AM:22:ILE:HB	15:AM:25:ILE:HB	1.95	0.47
26:BB:49:C:OP1	39:BS:96:GLY:HA3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:435:C:H2'	1:AA:436:C:C6	2.49	0.47
25:DA:2893:G:H4'	25:DA:2894:G:C8	2.48	0.47
10:CH:97:VAL:HG13	10:CH:98:LYS:N	2.29	0.47
24:AX:125:ARG:HB3	24:AX:154:GLY:HA2	1.95	0.47
1:CA:791:G:C6	1:CA:792:A:N7	2.82	0.47
1:AA:115:G:H4'	1:AA:116:A:O5'	2.14	0.47
19:AQ:74:LEU:HD12	19:AQ:75:ARG:HG2	1.96	0.47
1:CA:197:A:C6	1:CA:221:C:H4'	2.49	0.47
55:D8:11:LYS:C	55:D8:11:LYS:HD3	2.35	0.47
25:BA:191:A:H2'	25:BA:192:C:H6	1.79	0.47
38:DR:96:ARG:HH12	38:DR:117:VAL:HA	1.78	0.47
25:BA:446:G:OP1	41:BU:3:ARG:HD3	2.14	0.47
29:DF:50:SER:HB3	25:DA:37:C:O2'	2.15	0.47
24:CX:70:LEU:HD13	24:CX:73:MET:SD	2.54	0.47
25:BA:1486:A:N6	25:BA:1504:C:H42	2.12	0.47
42:DV:89:GLN:NE2	42:DV:90:PRO:HD2	2.29	0.47
1:AA:750:G:N3	17:AO:23:GLY:HA3	2.28	0.47
25:BA:114:U:H2'	25:BA:115:C:C6	2.49	0.47
24:CX:150:THR:HG23	24:CX:153:GLY:O	2.14	0.47
37:DQ:112:GLU:H	37:DQ:112:GLU:CD	2.16	0.47
50:B3:4:LEU:HD11	50:B3:39:ASP:OD1	2.14	0.47
38:BR:96:ARG:HH12	38:BR:117:VAL:HA	1.78	0.47
17:AO:48:LYS:HE2	17:AO:48:LYS:HA	1.95	0.47
25:BA:2320:A:H2'	25:BA:2320:A:N3	2.30	0.47
37:DQ:134:ARG:HG2	46:DZ:122:ARG:HH22	1.79	0.47
1:CA:1402:C:H2'	1:CA:1403:C:O4'	2.14	0.47
34:BN:64:ASP:HA	41:BU:64:ARG:HH11	1.78	0.47
25:DA:861:A:H2'	25:DA:862:G:O4'	2.14	0.47
12:AJ:29:ARG:HG2	12:AJ:29:ARG:O	2.15	0.47
42:BV:38:LEU:C	42:BV:39:LEU:HD22	2.34	0.47
24:AX:298:ARG:O	24:AX:299:SER:HB3	2.14	0.47
24:AX:96:LEU:HD22	24:AX:96:LEU:O	2.14	0.47
40:DT:75:ILE:HD12	40:DT:75:ILE:N	2.29	0.47
25:BA:2393:A:H5'	36:BP:62:LEU:HD12	1.96	0.47
30:DG:67:LYS:O	26:DB:42:C:H4'	2.14	0.47
25:BA:1025:G:H8	25:BA:1025:G:H5''	1.79	0.47
30:DG:41:GLN:HG2	30:DG:155:MET:CB	2.43	0.47
40:DT:109:GLU:HA	40:DT:112:ARG:HG3	1.95	0.47
1:AA:1103:C:H2'	1:AA:1104:G:H8	1.79	0.47
55:B8:55:ALA:O	55:B8:59:LYS:HG2	2.14	0.47
25:BA:1858:G:H1'	25:BA:1884:A:H62	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:DG:14:GLU:O	30:DG:17:PRO:HG2	2.14	0.47
25:BA:1655:A:H1'	28:BE:113:PHE:CE2	2.49	0.47
4:CB:102:LEU:HB2	4:CB:176:GLU:OE1	2.13	0.47
1:AA:1514:C:H2'	1:AA:1515:C:C6	2.49	0.47
25:DA:2115:G:O4'	25:DA:2167:U:H1'	2.14	0.47
25:BA:2115:G:O4'	25:BA:2167:U:H1'	2.14	0.47
39:DS:93:LYS:HE3	39:DS:93:LYS:HA	1.96	0.47
1:CA:255:G:H1'	19:CQ:16:GLN:NE2	2.29	0.47
25:BA:480:A:OP2	45:BY:46:LYS:HE2	2.14	0.47
29:BF:65:TRP:CZ3	29:BF:75:HIS:CD2	3.02	0.47
10:CH:81:HIS:HB2	10:CH:138:TRP:OXT	2.14	0.47
22:CT:89:ARG:HH21	22:CT:104:LEU:HD22	1.79	0.47
40:DT:22:PHE:HD2	40:DT:22:PHE:N	2.13	0.47
25:BA:2263:C:H2'	25:BA:2264:C:C6	2.49	0.47
25:BA:776:G:O6	25:BA:793:A:H2'	2.14	0.47
19:AQ:54:GLY:O	19:AQ:81:ARG:HB2	2.15	0.47
49:D2:6:VAL:O	49:D2:9:GLN:HB2	2.15	0.47
1:AA:44:G:H2'	1:AA:45:U:C6	2.49	0.47
46:BZ:103:ARG:HG3	46:BZ:136:PHE:CG	2.49	0.47
7:AE:10:MET:HA	7:AE:32:VAL:HA	1.95	0.47
22:CT:30:LYS:O	22:CT:33:ILE:HB	2.14	0.47
25:DA:2213:U:H6	25:DA:2213:U:O5'	1.96	0.47
11:AI:4:TYR:CD2	11:AI:88:TYR:HB2	2.49	0.47
21:AS:6:LYS:CD	21:AS:6:LYS:H	2.27	0.47
25:DA:1497:U:N3	25:DA:1578:U:OP1	2.48	0.47
1:CA:522:C:H5''	14:CL:119:TYR:OH	2.15	0.47
25:BA:2416:C:H2'	25:BA:2417:C:C6	2.49	0.47
11:CI:92:TYR:O	11:CI:96:LEU:HB2	2.15	0.47
38:DR:4:LEU:HD22	25:DA:1653:G:OP1	2.13	0.47
27:DD:16:MET:HE1	27:DD:208:LYS:HE2	1.96	0.47
13:AK:19:ALA:HB3	13:AK:82:VAL:HG22	1.96	0.47
25:BA:1772:G:N2	25:BA:1774:C:H5'	2.30	0.47
25:DA:1264:G:O5'	25:DA:1264:G:H8	1.97	0.47
24:CX:81:LEU:O	24:CX:85:LYS:HG2	2.14	0.47
15:AM:49:THR:O	15:AM:53:VAL:HG23	2.13	0.47
19:CQ:92:ARG:O	19:CQ:95:TYR:HB2	2.15	0.47
34:DN:36:TRP:CD1	34:DN:156:GLN:HG3	2.49	0.47
25:BA:1678:G:H2'	25:BA:1679:U:C6	2.46	0.47
21:CS:16:LEU:O	21:CS:19:VAL:HG12	2.14	0.47
30:BG:133:LEU:HD23	30:BG:133:LEU:N	2.29	0.47
44:DX:31:HIS:CG	44:DX:32:PRO:HD2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AL:82:VAL:HG21	14:AL:99:ILE:HD11	1.96	0.47
25:BA:1655:A:O3'	28:BE:115:GLY:HA3	2.13	0.47
41:BU:19:LYS:HA	41:BU:22:LYS:HG2	1.97	0.47
16:AN:24:CYS:O	16:AN:28:GLY:HA2	2.14	0.47
24:CX:125:ARG:O	24:CX:128:PHE:HB3	2.15	0.47
6:AD:93:PHE:CE1	6:AD:97:LEU:HD11	2.50	0.47
6:CD:64:LEU:O	6:CD:67:ILE:HB	2.15	0.47
25:DA:185:U:H4'	25:DA:218:A:H4'	1.96	0.47
24:AX:128:PHE:CE1	24:AX:132:LEU:HD11	2.49	0.47
1:CA:438:G:H2'	1:CA:494:U:O4	2.14	0.47
34:DN:160:LYS:CD	34:DN:161:LEU:H	2.26	0.47
1:CA:1070:U:H2'	1:CA:1071:C:H6	1.78	0.47
25:DA:2263:C:H2'	25:DA:2264:C:H6	1.80	0.47
25:BA:1001:A:H2'	25:BA:1002:G:O4'	2.15	0.47
1:AA:894:G:H2'	1:AA:895:G:H8	1.79	0.47
1:CA:841:U:HO2'	1:CA:842:C:H6	1.60	0.47
40:BT:100:TYR:HD2	40:BT:103:ARG:HE	1.62	0.47
1:AA:1188:A:H4'	16:AN:58:LYS:NZ	2.30	0.47
7:CE:101:ILE:HD11	7:CE:119:LEU:CD2	2.45	0.47
25:BA:2346:A:H5'	25:BA:2383:G:O4'	2.14	0.47
27:DD:108:PRO:HB3	27:DD:143:HIS:CE1	2.50	0.47
25:DA:2260:C:O5'	25:DA:2260:C:H6	1.97	0.47
24:CX:298:ARG:O	24:CX:299:SER:HB3	2.14	0.47
8:CF:44:GLY:HA2	8:CF:59:TYR:CZ	2.49	0.47
25:DA:233:A:H2'	25:DA:234:C:H6	1.80	0.47
1:CA:865:A:H5'	1:CA:1078:U:O4	2.15	0.47
2:CY:53:G:O2'	2:CY:54:U:H5'	2.15	0.47
25:DA:2476:A:C6	25:DA:2477:C:H5	2.32	0.47
1:CA:572:A:N3	1:CA:917:G:H1'	2.30	0.47
25:BA:930:U:H4'	25:BA:931:G:O5'	2.13	0.47
1:AA:590:C:OP1	10:AH:30:ARG:HB2	2.15	0.47
46:DZ:58:VAL:HA	46:DZ:67:LEU:O	2.13	0.47
13:AK:120:ARG:HH21	13:AK:126:ARG:NH2	2.13	0.47
44:DX:28:PHE:CE2	44:DX:92:LEU:HD11	2.46	0.47
44:DX:49:VAL:HG21	44:DX:89:ILE:HD11	1.96	0.47
41:BU:92:ARG:HG2	42:BV:11:GLN:CG	2.44	0.47
45:DY:37:VAL:HG21	45:DY:72:VAL:HG21	1.96	0.47
21:CS:6:LYS:CD	21:CS:6:LYS:H	2.28	0.47
1:CA:980:C:H5'	1:CA:981:U:H5	1.77	0.47
11:AI:114:TYR:CD1	12:AJ:60:ARG:HG2	2.49	0.47
5:AC:22:TRP:HZ3	5:AC:24:ALA:HB2	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:673:G:H2'	1:CA:674:G:C8	2.49	0.47
25:BA:1787:A:H2'	25:BA:1787:A:N3	2.30	0.47
29:BF:160:ASN:OD1	29:BF:162:LEU:HB2	2.14	0.47
9:CG:85:TYR:HB3	9:CG:151:TYR:HD2	1.78	0.47
8:CF:18:GLN:O	8:CF:22:GLU:HG2	2.15	0.47
25:BA:1762:A:O5'	25:BA:1762:A:H8	1.97	0.47
33:DJ:17:LEU:HD22	33:DJ:21:GLN:HE21	1.77	0.47
45:BY:71:LYS:HZ2	45:BY:71:LYS:HB2	1.78	0.47
1:AA:833:U:H2'	1:AA:834:C:H6	1.78	0.47
25:DA:71:A:H4'	25:DA:72:U:H5'	1.96	0.47
47:B0:31:VAL:HB	47:B0:35:ASN:ND2	2.30	0.47
25:BA:391:G:C5	25:BA:411:G:C2	3.02	0.47
1:CA:714:G:H21	1:CA:777:A:H1'	1.80	0.47
27:BD:183:ARG:HB3	27:BD:270:ILE:HG22	1.97	0.47
48:D1:83:GLU:HG2	48:D1:84:GLY:H	1.78	0.47
8:CF:10:LEU:HD13	8:CF:61:LEU:HD13	1.95	0.47
24:AX:289:ARG:NH1	25:BA:1915:U:H4'	2.28	0.47
10:AH:81:HIS:HB2	10:AH:138:TRP:OXT	2.14	0.47
29:DF:64:ILE:HG13	29:DF:65:TRP:CD1	2.50	0.47
25:DA:1936:A:C8	25:DA:1945:G:C8	3.01	0.47
35:BO:112:MET:HA	35:BO:115:VAL:HG22	1.97	0.47
27:DD:202:LYS:HB3	25:DA:1820:U:C2	2.50	0.47
34:BN:77:VAL:HB	34:BN:145:VAL:HG22	1.96	0.47
25:BA:1353:A:H2'	25:BA:1354:A:C8	2.50	0.47
25:BA:177:G:H3'	25:BA:178:G:H8	1.79	0.47
1:CA:164:U:H2'	1:CA:165:C:C6	2.49	0.47
42:DV:88:ARG:HD2	42:DV:88:ARG:O	2.15	0.47
7:CE:83:GLU:HG2	7:CE:88:LYS:HG3	1.95	0.47
25:DA:728:G:C2	25:DA:730:C:C2	3.02	0.47
31:BH:86:GLU:HB3	31:BH:132:ARG:NH1	2.28	0.47
31:BH:83:TYR:CZ	31:BH:138:LYS:HG3	2.50	0.47
37:BQ:134:ARG:HG2	46:BZ:122:ARG:HH22	1.79	0.47
6:CD:22:LYS:HB2	6:CD:26:CYS:SG	2.55	0.47
25:BA:410:G:C2	25:BA:418:G:C2	3.02	0.47
4:CB:116:GLU:HA	4:CB:119:GLU:OE1	2.14	0.47
40:BT:109:GLU:HA	40:BT:112:ARG:HG3	1.96	0.47
25:DA:1294:U:H2'	25:DA:1295:C:C6	2.49	0.47
21:AS:10:PHE:H	21:AS:10:PHE:HD1	1.60	0.47
42:BV:88:ARG:HD2	42:BV:88:ARG:O	2.14	0.47
1:CA:1040:U:H2'	1:CA:1041:A:C8	2.50	0.47
25:BA:2462:U:H2'	25:BA:2463:C:O4'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1812:A:H2'	25:DA:1813:G:H8	1.79	0.47
25:DA:2069:G:N2	25:DA:2443:C:C2	2.82	0.47
29:DF:139:PHE:CE2	29:DF:167:ALA:HB2	2.50	0.47
1:CA:980:C:H3'	1:CA:981:U:H6	1.80	0.47
40:DT:51:ARG:HB3	40:DT:62:THR:CG2	2.44	0.47
5:CC:71:ALA:HA	5:CC:106:VAL:HB	1.97	0.47
49:D2:18:PRO:HB3	49:D2:68:ARG:HD2	1.96	0.47
28:BE:51:PHE:HD1	28:BE:52:LEU:HG	1.78	0.47
25:DA:569:U:H2'	25:DA:570:G:O4'	2.15	0.47
25:BA:1478:G:HO2'	25:BA:1558:A:H2	1.61	0.47
1:CA:939:G:H5''	9:CG:102:ARG:CZ	2.44	0.47
25:DA:2686:G:H2'	25:DA:2687:U:C6	2.49	0.47
24:AX:295:THR:O	24:AX:295:THR:HG22	2.15	0.47
38:BR:11:ASN:O	38:BR:12:ARG:HB2	2.15	0.47
22:AT:48:LYS:HD3	22:AT:51:GLU:CD	2.34	0.47
24:CX:246:THR:OG1	24:CX:248:ILE:HG22	2.15	0.47
24:AX:218:ARG:HB2	24:AX:244:LEU:HD21	1.95	0.47
34:DN:58:ARG:HB2	34:DN:65:TRP:CZ3	2.49	0.47
47:B0:27:GLU:HA	47:B0:67:VAL:O	2.15	0.47
47:D0:53:MET:HE3	47:D0:57:PHE:HA	1.96	0.47
29:DF:135:LYS:HA	25:DA:321:G:OP2	2.15	0.47
8:CF:79:LEU:HB2	8:CF:88:VAL:HG11	1.95	0.47
27:BD:202:LYS:HG3	27:BD:203:ASN:OD1	2.14	0.47
19:AQ:59:ILE:HD12	19:AQ:59:ILE:N	2.28	0.47
25:BA:2688:U:C5	25:BA:2720:U:OP2	2.67	0.47
24:CX:303:ARG:HD2	24:CX:305:TYR:OH	2.14	0.47
37:DQ:35:VAL:HA	37:DQ:101:ARG:O	2.13	0.47
25:BA:2476:A:C6	25:BA:2477:C:H5	2.33	0.47
9:CG:79:ARG:HE	9:CG:84:ASN:ND2	2.13	0.47
25:BA:1462:C:H4'	25:BA:2703:C:H5'	1.95	0.47
34:DN:99:SER:HB3	25:DA:2641:G:H5''	1.97	0.47
44:DX:66:LEU:HD23	44:DX:67:GLY:N	2.30	0.47
25:DA:269:U:C4	25:DA:271(A):U:C2	3.03	0.47
2:CZ:68:C:H2'	2:CZ:69:C:C6	2.49	0.47
1:AA:131:C:H2'	1:AA:132:C:C6	2.49	0.47
38:BR:13:HIS:O	38:BR:14:SER:C	2.53	0.47
13:CK:81:ASP:CG	13:CK:106:LYS:HD3	2.35	0.47
1:CA:139:G:H2'	1:CA:140:A:H8	1.79	0.47
13:CK:22:HIS:HB3	13:CK:29:ILE:CG1	2.33	0.47
25:BA:1843:C:H2'	25:BA:1844:C:C6	2.50	0.47
25:BA:2069:G:C6	25:BA:2070:G:N7	2.82	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:D3:8:LEU:HB2	50:D3:28:LEU:HD23	1.96	0.47
1:AA:522:C:N4	14:AL:52:ARG:HH22	2.02	0.47
7:CE:70:PRO:CB	7:CE:144:THR:HG22	2.43	0.47
1:CA:981:U:OP1	16:CN:6:LEU:HD21	2.14	0.47
14:CL:24:PRO:HD2	14:CL:97:TYR:OH	2.14	0.47
5:CC:59:ARG:NH2	5:CC:97:LYS:HE2	2.29	0.47
5:CC:22:TRP:CZ3	5:CC:24:ALA:HB2	2.48	0.47
1:CA:1220:G:H2'	1:CA:1221:G:C8	2.50	0.47
24:CX:106:ASP:O	24:CX:204:LYS:HG2	2.15	0.47
25:DA:570:G:H2'	25:DA:2030:A:H62	1.80	0.47
26:BB:42:C:H4'	30:BG:67:LYS:O	2.14	0.47
36:DP:35:HIS:CD2	25:DA:1191:G:OP1	2.68	0.47
25:DA:2592:G:C6	25:DA:2593:U:C2	3.03	0.47
31:BH:101:ARG:HE	31:BH:101:ARG:N	2.08	0.47
35:DO:87:ILE:HG22	35:DO:92:GLU:N	2.30	0.47
27:DD:85:ASP:C	27:DD:87:ASN:H	2.18	0.47
55:D8:50:LEU:HB2	55:D8:54:GLU:CG	2.45	0.47
1:CA:1079:G:O3'	7:CE:14:ARG:NH2	2.46	0.47
27:BD:35:LYS:O	27:BD:63:ARG:HA	2.14	0.47
1:AA:675:A:H2'	1:AA:676:A:H8	1.80	0.47
32:DI:109:ILE:HD13	32:DI:109:ILE:N	2.30	0.47
25:BA:2104:G:H2'	25:BA:2105:C:C6	2.49	0.47
36:DP:52:GLU:CG	36:DP:53:GLY:H	2.25	0.47
24:CX:295:THR:O	24:CX:295:THR:HG22	2.14	0.47
24:CX:61:ALA:CB	24:CX:74:ALA:HB2	2.43	0.47
14:CL:74:HIS:HD2	14:CL:76:LEU:HB2	1.79	0.47
27:DD:67:PHE:CE1	27:DD:157:ARG:NH1	2.80	0.47
34:BN:36:TRP:CD1	34:BN:156:GLN:HG3	2.50	0.47
25:BA:652:U:H5'	25:BA:652:U:C6	2.50	0.47
15:CM:87:TYR:CE1	21:CS:76:PRO:HA	2.49	0.47
30:DG:133:LEU:HD23	30:DG:133:LEU:N	2.29	0.47
25:BA:2456:C:H6	25:BA:2456:C:O5'	1.98	0.47
25:DA:2886:G:H2'	25:DA:2887:U:H6	1.77	0.47
44:DX:53:LYS:CE	44:DX:55:ASN:HD21	2.28	0.47
34:BN:32:VAL:HG21	34:BN:62:ARG:HH12	1.78	0.47
1:CA:1443:G:N2	40:DT:119:LYS:HA	2.30	0.47
39:DS:94:TYR:CE1	39:DS:99:LYS:HG3	2.49	0.47
24:CX:218:ARG:HB2	24:CX:244:LEU:HD21	1.96	0.47
36:DP:7:ARG:O	36:DP:10:PRO:HD3	2.15	0.47
28:DE:118:LYS:HZ3	38:DR:2:ARG:NH2	2.13	0.47
1:AA:254:G:H2'	1:AA:255:G:H8	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:255:G:H1'	19:AQ:16:GLN:NE2	2.30	0.47
25:DA:380:U:H2'	25:DA:381:G:C8	2.50	0.47
1:CA:262:A:H2'	1:CA:263:A:C8	2.50	0.47
1:CA:295:C:H2'	1:CA:296:U:C6	2.50	0.47
45:DY:35:TYR:CE2	45:DY:69:ALA:HB3	2.50	0.47
1:CA:394:G:H2'	1:CA:395:C:C6	2.49	0.47
25:DA:2193:G:H2'	25:DA:2194:G:C8	2.48	0.47
42:DV:99:ILE:HD13	42:DV:99:ILE:N	2.29	0.47
13:CK:105:VAL:O	13:CK:105:VAL:HG23	2.14	0.47
25:BA:1509:A:H4'	25:BA:1510:A:C8	2.49	0.47
25:DA:1509:A:H4'	25:DA:1510:A:C8	2.49	0.47
7:CE:18:ARG:HH21	7:CE:25:ARG:HB2	1.79	0.47
1:AA:1064:G:N2	1:AA:1190:G:H2'	2.29	0.47
25:DA:776:G:O6	25:DA:793:A:H2'	2.15	0.47
25:BA:330:A:O2'	25:BA:331:A:C8	2.67	0.47
25:BA:312:G:C6	25:BA:313:C:C4	3.03	0.47
2:AZ:28:C:H2'	2:AZ:29:G:C8	2.50	0.47
17:CO:65:ARG:O	17:CO:68:ARG:HB2	2.15	0.47
25:BA:2282:G:C2	25:BA:2425:A:C5	3.03	0.47
25:DA:674:G:H2'	25:DA:804:A:H61	1.80	0.47
29:DF:65:TRP:CZ3	29:DF:75:HIS:CD2	3.03	0.47
6:AD:9:CYS:HB3	6:AD:32:ALA:CB	2.44	0.47
25:BA:2087:G:H2'	25:BA:2088:G:C8	2.49	0.47
4:CB:22:LYS:HZ3	4:CB:22:LYS:H	1.61	0.47
25:DA:1331:A:HO2'	25:DA:1332:G:H8	1.62	0.47
25:DA:191:A:H2'	25:DA:192:C:H6	1.79	0.47
25:DA:149:A:H2'	25:DA:150:C:C6	2.49	0.47
13:AK:23:ALA:HB3	13:AK:86:GLY:O	2.15	0.47
7:CE:65:ASN:O	7:CE:66:MET:HB2	2.14	0.47
8:CF:5:GLU:HB3	8:CF:62:TRP:HE1	1.80	0.47
25:BA:270(L):C:H2'	25:BA:270(N):U:C5	2.49	0.47
38:DR:13:HIS:O	38:DR:14:SER:C	2.53	0.47
25:BA:2228:G:H2'	25:BA:2229:C:O4'	2.15	0.47
4:CB:183:PRO:HA	4:CB:198:ASP:OD1	2.15	0.47
25:DA:1727:U:H2'	25:DA:1728:G:O4'	2.14	0.47
1:CA:1503:A:N6	3:CV:13:A:C8	2.83	0.47
1:AA:1040:U:H2'	1:AA:1041:A:C8	2.49	0.47
25:DA:566:U:H2'	25:DA:567:A:O4'	2.15	0.47
43:BW:6:ILE:HG12	43:BW:104:THR:HG23	1.96	0.47
25:DA:678:C:H2'	25:DA:679:C:C6	2.49	0.47
28:DE:33:VAL:HG12	28:DE:89:ASP:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:49:U:H3	1:AA:362:G:H1'	1.80	0.47
29:BF:197:ASP:O	29:BF:200:GLU:HB3	2.15	0.47
32:BI:29:TYR:O	32:BI:33:ARG:HG3	2.14	0.47
42:BV:89:GLN:NE2	42:BV:90:PRO:HD2	2.30	0.47
38:DR:34:ILE:O	38:DR:113:LEU:HD12	2.15	0.47
12:CJ:29:ARG:HG2	12:CJ:29:ARG:O	2.15	0.47
9:AG:137:LYS:O	9:AG:141:VAL:HG23	2.14	0.47
2:CY:68:C:H2'	2:CY:69:C:C6	2.50	0.47
1:AA:584:G:H2'	1:AA:585:G:H8	1.79	0.47
1:CA:49:U:H3	1:CA:362:G:H1'	1.79	0.47
25:DA:907:U:H2'	25:DA:908:C:C6	2.49	0.47
25:BA:2065:C:H1'	25:BA:2449:U:O2	2.15	0.47
46:DZ:7:ALA:O	46:DZ:62:PRO:HD3	2.15	0.47
32:DI:102:SER:O	32:DI:106:GLY:HA2	2.15	0.47
1:CA:115:G:H4'	1:CA:116:A:O5'	2.14	0.47
28:BE:69:LYS:O	28:BE:69:LYS:HD3	2.15	0.47
40:DT:68:TYR:N	40:DT:68:TYR:CD2	2.83	0.47
36:BP:13:ASN:HD22	36:BP:13:ASN:N	2.12	0.47
31:DH:83:TYR:CZ	31:DH:138:LYS:HG3	2.50	0.47
25:DA:2791:C:H4'	25:DA:2792:G:O5'	2.14	0.47
1:CA:785:G:C2	1:CA:786:G:C8	3.02	0.47
1:CA:235:C:H1'	19:CQ:61:GLU:OE1	2.15	0.47
1:CA:799:G:C2	1:CA:800:G:H1'	2.50	0.47
41:BU:90:VAL:HG13	41:BU:91:ASP:N	2.26	0.47
42:DV:38:LEU:C	42:DV:39:LEU:HD22	2.35	0.47
11:CI:114:TYR:CD1	12:CJ:60:ARG:HG2	2.50	0.47
25:BA:587:C:C5	36:BP:33:ARG:HG2	2.50	0.47
25:BA:1406:U:H2'	25:BA:1407:C:C6	2.50	0.47
43:BW:84:ARG:O	43:BW:95:ILE:HA	2.14	0.47
38:DR:63:ARG:HG3	38:DR:80:PHE:CE2	2.50	0.47
1:CA:939:G:H1	1:CA:1344:C:H42	1.63	0.47
1:AA:939:G:H5''	9:AG:102:ARG:NH2	2.29	0.47
40:DT:102:ILE:HG22	40:DT:110:ILE:HD11	1.96	0.47
1:CA:1103:C:H2'	1:CA:1104:G:H8	1.79	0.47
39:DS:14:VAL:HG11	39:DS:89:ARG:HD3	1.97	0.47
9:AG:107:ALA:HB2	9:AG:134:ALA:HB2	1.97	0.47
39:DS:13:ARG:HH12	25:DA:2335:A:H2'	1.80	0.47
25:BA:581:C:H2'	25:BA:582:G:H8	1.77	0.47
21:AS:41:VAL:HG13	21:AS:42:PRO:HD2	1.96	0.47
15:AM:87:TYR:CE1	21:AS:76:PRO:HA	2.49	0.47
25:BA:2335:A:H2'	39:BS:13:ARG:HH12	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BZ:28:MET:HE3	46:BZ:37:VAL:HG11	1.97	0.47
47:B0:32:ARG:HB3	47:B0:33:ALA:H	1.53	0.47
25:BA:2406:U:C5	36:BP:72:PRO:HG2	2.50	0.47
30:DG:132:ASN:ND2	25:DA:2303:G:H1'	2.29	0.47
25:BA:481:G:H1'	25:BA:506:G:N2	2.29	0.47
4:CB:97:TRP:HH2	4:CB:176:GLU:CD	2.18	0.47
1:CA:296:U:H2'	1:CA:297:G:H8	1.79	0.47
27:BD:70:TRP:O	27:BD:73:VAL:HG23	2.14	0.47
25:BA:1755:A:C2	25:BA:2716:U:H1'	2.50	0.47
25:DA:765:G:H2'	25:DA:766:C:H6	1.79	0.47
25:DA:1755:A:C2	25:DA:2716:U:H1'	2.50	0.47
31:BH:103:LEU:HD22	31:BH:123:PHE:CE1	2.50	0.47
25:BA:298:G:H5''	25:BA:299:A:OP1	2.15	0.47
8:AF:9:VAL:HA	8:AF:59:TYR:O	2.15	0.47
7:AE:135:THR:O	7:AE:139:LEU:HG	2.14	0.47
26:BB:24:G:H4'	26:BB:25:A:N7	2.29	0.47
25:DA:938:G:C2	25:DA:939:G:N7	2.83	0.47
13:AK:81:ASP:CG	13:AK:106:LYS:HD3	2.36	0.47
25:BA:2408:U:H2'	25:BA:2409:G:C8	2.50	0.47
32:BI:87:LYS:HA	32:BI:122:GLU:HA	1.96	0.47
25:DA:1371:G:HO2'	25:DA:1372:U:H6	1.61	0.47
1:CA:590:C:OP1	10:CH:30:ARG:HB2	2.14	0.47
1:CA:1208:C:H2'	1:CA:1209:C:C6	2.49	0.47
7:CE:10:MET:HA	7:CE:32:VAL:HA	1.96	0.47
22:AT:24:LEU:H	22:AT:24:LEU:HD22	1.80	0.47
8:AF:98:LEU:O	8:AF:98:LEU:HD12	2.15	0.47
2:CY:17(A):U:H4'	2:CY:18:G:OP1	2.15	0.47
25:BA:1516:U:H2'	25:BA:1517:G:C8	2.50	0.47
26:BB:82:G:H2'	26:BB:83:G:H8	1.80	0.47
1:AA:711:G:O2'	1:AA:712:A:H5'	2.15	0.47
44:BX:28:PHE:CE2	44:BX:92:LEU:HD11	2.45	0.47
37:BQ:52:VAL:HG23	46:BZ:183:LEU:HD13	1.97	0.47
42:DV:6:LYS:HA	42:DV:11:GLN:HB3	1.96	0.47
47:B0:22:GLY:O	47:B0:38:VAL:HG13	2.14	0.47
25:DA:141(A):A:H3'	25:DA:141(B):C:C6	2.49	0.47
1:AA:980:C:H3'	1:AA:981:U:H6	1.78	0.47
17:CO:39:LEU:HD12	17:CO:56:LEU:HB2	1.97	0.47
49:B2:18:PRO:HB3	49:B2:68:ARG:HD2	1.97	0.47
38:BR:63:ARG:O	38:BR:67:LEU:HD23	2.15	0.47
11:AI:92:TYR:O	11:AI:96:LEU:HB2	2.14	0.47
55:D8:54:GLU:O	55:D8:58:ILE:HG12	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:673:G:H5''	8:AF:87:ARG:HH11	1.80	0.47
55:B8:54:GLU:O	55:B8:58:ILE:HG12	2.14	0.47
25:DA:245:G:H2'	25:DA:246:C:H6	1.80	0.47
25:BA:95:G:H1'	49:B2:47:ASN:HB3	1.96	0.47
25:BA:1259:G:H2'	25:BA:1260:G:C8	2.50	0.47
30:BG:13:GLU:O	30:BG:14:GLU:HB2	2.14	0.47
21:CS:44:MET:O	21:CS:62:ILE:HG21	2.15	0.47
29:DF:24:LEU:H	29:DF:24:LEU:CD1	2.27	0.47
1:CA:191(G):G:C4	22:CT:105:SER:HB3	2.49	0.47
49:B2:52:ASP:O	49:B2:56:GLN:HB2	2.15	0.47
39:DS:96:GLY:O	39:DS:99:LYS:HB3	2.15	0.47
25:BA:1750:G:H2'	25:BA:1751:C:C6	2.50	0.47
41:DU:19:LYS:HA	41:DU:22:LYS:HG2	1.96	0.47
25:BA:2574:G:H2'	25:BA:2575:C:H6	1.80	0.47
25:BA:278:A:N6	25:BA:362:U:H3	2.13	0.47
1:AA:791:G:C6	1:AA:792:A:N7	2.83	0.47
1:CA:1316:G:H5''	16:CN:17:LYS:HE2	1.97	0.47
25:DA:2815:C:H2'	25:DA:2816:C:H6	1.79	0.47
1:CA:894:G:H2'	1:CA:895:G:H8	1.79	0.47
24:AX:311:ARG:HG2	24:AX:313:THR:HG23	1.95	0.47
25:BA:1331:A:O2'	25:BA:1332:G:H8	1.98	0.47
25:BA:907:U:H2'	25:BA:908:C:H6	1.79	0.47
35:DO:71:ARG:HH12	40:DT:74:ARG:HH22	1.63	0.47
1:AA:187:C:H2'	1:AA:188:U:O4'	2.15	0.47
1:CA:1423:G:P	35:DO:49:ARG:HH12	2.38	0.47
1:CA:1244:C:H2'	1:CA:1245:A:C8	2.49	0.47
38:BR:34:ILE:O	38:BR:113:LEU:HD12	2.15	0.47
2:AZ:68:C:H2'	2:AZ:69:C:C6	2.50	0.47
1:CA:920:U:H2'	1:CA:921:U:C6	2.49	0.47
2:AY:17(A):U:H4'	2:AY:18:G:OP1	2.14	0.47
25:DA:2357:U:H6	25:DA:2357:U:O5'	1.97	0.47
36:DP:132:LYS:HD3	25:DA:636:G:OP1	2.15	0.47
48:D1:19:GLN:NE2	48:D1:41:ARG:HB2	2.13	0.47
45:DY:96:ILE:CD1	45:DY:99:CYS:HB2	2.39	0.47
11:CI:62:TYR:C	11:CI:63:ILE:HD12	2.35	0.47
50:B3:8:LEU:HB2	50:B3:28:LEU:HD23	1.96	0.47
25:DA:1405:U:H2'	25:DA:1406:U:H6	1.78	0.47
1:AA:981:U:OP1	16:AN:6:LEU:HD21	2.15	0.47
7:AE:76:ILE:HD11	7:AE:142:LEU:HD11	1.96	0.47
5:AC:195:VAL:HG12	5:AC:196:LEU:N	2.30	0.47
30:BG:94:LEU:N	30:BG:94:LEU:HD23	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CH:110:ALA:H	10:CH:121:ASP:HB3	1.80	0.47
21:AS:25:LYS:HB3	21:AS:27:GLU:OE1	2.15	0.47
27:DD:111:LEU:HD22	27:DD:115:GLN:OE1	2.15	0.47
35:DO:61:VAL:N	35:DO:87:ILE:HD11	2.30	0.47
25:DA:1998:G:H2'	25:DA:1999:C:C6	2.49	0.47
15:AM:75:ALA:O	15:AM:79:LYS:HG3	2.15	0.47
55:D8:31:HIS:CE1	25:DA:2422:A:N7	2.83	0.47
25:DA:1152:C:H2'	25:DA:1153:C:C6	2.46	0.47
8:CF:69:GLU:O	8:CF:72:VAL:HG12	2.15	0.47
24:CX:45:ILE:HA	24:CX:48:ILE:HG12	1.97	0.47
36:DP:70:GLN:H	25:DA:245:G:H5''	1.80	0.47
43:DW:8:ARG:HA	43:DW:102:HIS:CD2	2.48	0.47
30:BG:14:GLU:O	30:BG:17:PRO:HG2	2.15	0.47
4:AB:118:LEU:HD13	4:AB:142:LEU:HA	1.95	0.47
5:CC:19:GLU:HA	5:CC:54:ARG:NE	2.29	0.47
29:BF:192:LEU:HD21	29:BF:194:MET:CE	2.45	0.47
34:DN:32:VAL:HG21	34:DN:62:ARG:HH12	1.79	0.47
6:AD:3:ARG:HD3	6:AD:5:ILE:CD1	2.45	0.47
25:DA:2574:G:H2'	25:DA:2575:C:H6	1.79	0.47
25:BA:2039:C:H2'	25:BA:2040:C:C6	2.48	0.47
47:B0:53:MET:HE3	47:B0:57:PHE:HA	1.96	0.47
24:AX:125:ARG:O	24:AX:128:PHE:HB3	2.14	0.47
5:AC:83:ARG:O	5:AC:87:LEU:HG	2.15	0.47
29:BF:64:ILE:HG13	29:BF:65:TRP:CD1	2.50	0.47
25:DA:298:G:H5''	25:DA:299:A:OP1	2.15	0.47
24:AX:303:ARG:HD2	24:AX:305:TYR:OH	2.14	0.47
55:B8:6:THR:CG2	55:B8:63:PRO:HG2	2.45	0.47
25:BA:1294:U:H2'	25:BA:1295:C:C6	2.50	0.47
13:AK:120:ARG:HH21	13:AK:126:ARG:HH21	1.62	0.47
1:CA:1422:G:O3'	35:DO:49:ARG:NH1	2.46	0.47
7:CE:7:GLU:HB3	7:CE:35:GLY:O	2.14	0.47
25:BA:263:C:H2'	25:BA:264:C:O4'	2.15	0.47
25:DA:2537:U:H2'	25:DA:2538:C:C6	2.50	0.47
26:BB:17:C:H2'	26:BB:18:G:O4'	2.16	0.47
25:BA:1727:U:H2'	25:BA:1728:G:O4'	2.14	0.47
1:CA:1262:C:H2'	1:CA:1263:C:C6	2.49	0.47
25:DA:263:C:H2'	25:DA:264:C:O4'	2.15	0.47
26:DB:24:G:H4'	26:DB:25:A:N7	2.29	0.47
25:BA:861:A:H2'	25:BA:862:G:O4'	2.15	0.47
2:AZ:17:C:O5'	2:AZ:17:C:H6	1.98	0.47
46:DZ:103:ARG:HG3	46:DZ:136:PHE:CG	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1763:G:H2'	25:DA:1764:G:H5'	1.97	0.47
25:BA:2376:A:H2'	25:BA:2377:A:O4'	2.15	0.47
25:BA:955:C:H5''	37:BQ:85:LYS:HD3	1.97	0.46
11:CI:4:TYR:CD2	11:CI:88:TYR:HB2	2.49	0.46
48:D1:19:GLN:HG2	48:D1:41:ARG:CB	2.45	0.46
27:DD:243:GLY:O	27:DD:244:ARG:CB	2.61	0.46
14:AL:50:ALA:O	14:AL:51:LEU:C	2.53	0.46
24:CX:96:LEU:HG	24:CX:348:LEU:HB2	1.97	0.46
25:DA:1594:G:H2'	25:DA:1595:G:O4'	2.15	0.46
30:DG:88:ILE:HG13	30:DG:89:GLY:N	2.30	0.46
25:BA:1191:G:OP1	36:BP:35:HIS:CD2	2.68	0.46
40:BT:102:ILE:HG22	40:BT:110:ILE:HD11	1.97	0.46
25:DA:664:C:H4'	25:DA:941:A:OP1	2.16	0.46
38:BR:63:ARG:HG3	38:BR:80:PHE:CE2	2.49	0.46
5:CC:179:ARG:O	5:CC:179:ARG:HG3	2.14	0.46
10:AH:110:ALA:H	10:AH:121:ASP:HB3	1.80	0.46
25:DA:1025:G:H8	25:DA:1025:G:H5''	1.79	0.46
1:CA:675:A:H2'	1:CA:676:A:H8	1.80	0.46
55:B8:33:ASN:ND2	55:B8:34:TRP:H	2.13	0.46
1:CA:1355:G:C6	1:CA:1368:G:C6	3.03	0.46
25:BA:1567:A:H3'	27:BD:86:PRO:HG3	1.97	0.46
25:DA:1022:G:O2'	25:DA:1023:U:P	2.73	0.46
25:DA:1787:A:N3	25:DA:1787:A:H2'	2.30	0.46
1:AA:687:A:H4'	1:AA:688:G:O5'	2.15	0.46
25:BA:39:C:H2'	25:BA:40:C:C6	2.50	0.46
53:D6:27:LYS:NZ	25:DA:2285:C:H5	2.13	0.46
25:BA:1061:U:H4'	25:BA:1070:A:C4'	2.44	0.46
36:DP:16:ARG:HD2	25:DA:661:C:O2'	2.14	0.46
1:AA:125:U:H2'	1:AA:126:G:H8	1.77	0.46
16:CN:37:PHE:O	16:CN:39:LEU:HG	2.15	0.46
4:CB:118:LEU:HD13	4:CB:142:LEU:HA	1.96	0.46
25:DA:1980:G:C5'	25:DA:1980:G:H8	2.28	0.46
32:BI:113:ARG:HB2	32:BI:130:TYR:CE1	2.51	0.46
12:AJ:78:ASN:HB2	12:AJ:81:THR:HG23	1.96	0.46
28:DE:113:PHE:CE2	25:DA:1655:A:H1'	2.50	0.46
25:BA:56:A:H2'	25:BA:57:C:C6	2.50	0.46
8:AF:18:GLN:O	8:AF:22:GLU:HG2	2.15	0.46
25:BA:2090:G:C6	25:BA:2230:G:C6	3.03	0.46
47:D0:27:GLU:HA	47:D0:67:VAL:O	2.16	0.46
5:CC:83:ARG:O	5:CC:87:LEU:HG	2.14	0.46
25:DA:2623:G:H2'	25:DA:2624:G:H8	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:DE:49:LEU:O	28:DE:78:LEU:HA	2.15	0.46
14:AL:45:LYS:HE2	14:AL:45:LYS:HB3	1.68	0.46
19:CQ:54:GLY:O	19:CQ:81:ARG:HB2	2.15	0.46
1:CA:542:G:H2'	1:CA:543:C:C6	2.49	0.46
50:D3:4:LEU:HD11	50:D3:39:ASP:OD1	2.15	0.46
44:BX:29:TRP:CZ3	44:BX:76:ARG:HD3	2.50	0.46
25:BA:2484:G:H2'	25:BA:2485:G:H8	1.79	0.46
46:BZ:7:ALA:O	46:BZ:62:PRO:HD3	2.15	0.46
25:DA:2370:G:H2'	25:DA:2371:G:O4'	2.15	0.46
2:CY:74:C:O2'	2:CY:75:C:H5'	2.14	0.46
25:DA:2529:G:H8	25:DA:2529:G:O5'	1.98	0.46
1:AA:1319:A:H5''	1:AA:1319:A:H8	1.79	0.46
29:BF:18:ARG:O	29:BF:18:ARG:HG3	2.15	0.46
21:AS:15:LEU:HD21	21:AS:35:SER:OG	2.16	0.46
28:BE:119:ARG:HD2	28:BE:120:TRP:CE2	2.50	0.46
25:BA:1843:C:H2'	25:BA:1844:C:H6	1.80	0.46
37:BQ:45:GLN:CD	37:BQ:45:GLN:H	2.18	0.46
14:CL:50:ALA:O	14:CL:51:LEU:C	2.53	0.46
1:AA:980:C:H3'	1:AA:981:U:C6	2.50	0.46
25:DA:2680:C:H2'	25:DA:2681:C:O2	2.14	0.46
25:DA:2416:C:H2'	25:DA:2417:C:C6	2.50	0.46
25:BA:1349:A:N6	25:BA:1598:C:N4	2.64	0.46
1:AA:986:A:H2'	1:AA:987:G:C8	2.50	0.46
5:AC:59:ARG:NH2	5:AC:97:LYS:HE2	2.29	0.46
43:DW:84:ARG:O	43:DW:95:ILE:HA	2.14	0.46
10:AH:6:ILE:O	10:AH:10:LEU:HG	2.15	0.46
34:BN:88:LYS:HB2	34:BN:92:GLN:HB2	1.97	0.46
27:DD:35:LYS:HE3	27:DD:104:TYR:CG	2.51	0.46
1:AA:794:A:H2'	1:AA:795:C:C6	2.50	0.46
1:CA:950:U:H2'	1:CA:951:G:C8	2.43	0.46
25:DA:1131:G:H2'	25:DA:1132:A:C8	2.50	0.46
31:DH:20:ALA:HB1	31:DH:21:PRO:CD	2.46	0.46
5:CC:6:HIS:HA	5:CC:7:PRO:HD2	1.79	0.46
36:DP:71:VAL:HG23	25:DA:389:G:C6	2.50	0.46
25:DA:2711:A:OP1	25:DA:712(B):A:P	2.72	0.46
25:DA:634:C:H2'	25:DA:635:C:H6	1.80	0.46
1:CA:1187:G:H5'	11:CI:113:LYS:HE2	1.97	0.46
25:DA:1126:A:H4'	25:DA:1127:A:C5'	2.45	0.46
1:AA:1293:G:HO2'	1:AA:1294:G:H8	1.62	0.46
26:BB:46:A:H2'	26:BB:47:C:C6	2.50	0.46
30:DG:32:PRO:HA	30:DG:162:THR:OG1	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:610:C:H2'	25:BA:611:C:C6	2.51	0.46
25:BA:611:C:H2'	25:BA:612:G:O4'	2.16	0.46
40:BT:22:PHE:HD2	40:BT:22:PHE:N	2.12	0.46
25:DA:1295:C:H2'	25:DA:1296:G:H8	1.80	0.46
1:AA:584:G:H2'	1:AA:585:G:C8	2.50	0.46
25:DA:907:U:H2'	25:DA:908:C:H6	1.81	0.46
25:DA:2346:A:H5'	25:DA:2383:G:O4'	2.15	0.46
25:DA:1967:C:H2'	25:DA:1968:G:O4'	2.14	0.46
13:AK:24:SER:HB3	13:AK:27:ASN:O	2.15	0.46
1:CA:994:A:H62	1:CA:1046:A:H2	1.62	0.46
25:BA:1198:U:C2	25:BA:1199:U:C5	3.03	0.46
25:BA:2174:C:H6	25:BA:2174:C:O5'	1.99	0.46
7:CE:135:THR:O	7:CE:139:LEU:HG	2.15	0.46
1:CA:644:G:C2	1:CA:645:C:H1'	2.51	0.46
2:CY:4:G:C2	2:CY:70:G:C2	3.03	0.46
25:DA:1198:U:C2	25:DA:1199:U:C5	3.03	0.46
25:DA:2241:A:H2'	25:DA:2242:G:C8	2.51	0.46
42:DV:40:LEU:HA	42:DV:45:THR:HB	1.96	0.46
30:BG:88:ILE:HG13	30:BG:89:GLY:N	2.30	0.46
30:DG:5:LEU:HD21	51:D4:50:THR:HA	1.97	0.46
11:CI:53:VAL:HG23	11:CI:55:ALA:H	1.80	0.46
1:CA:1372:U:H2'	1:CA:1373:G:O4'	2.15	0.46
1:AA:939:G:H1	1:AA:1344:C:H42	1.64	0.46
25:DA:222:A:N6	25:DA:224:G:C2	2.84	0.46
27:DD:35:LYS:O	27:DD:63:ARG:HA	2.15	0.46
46:DZ:71:VAL:HG11	46:DZ:74:VAL:CG2	2.46	0.46
27:BD:35:LYS:HE3	27:BD:104:TYR:CG	2.51	0.46
25:BA:1131:G:H2'	25:BA:1132:A:C8	2.50	0.46
6:CD:105:VAL:HG21	6:CD:121:VAL:CG2	2.45	0.46
5:AC:27:LYS:HA	5:AC:27:LYS:HZ3	1.77	0.46
29:DF:192:LEU:HD21	29:DF:194:MET:CE	2.45	0.46
4:AB:97:TRP:HH2	4:AB:176:GLU:CD	2.19	0.46
36:DP:111:ARG:HH22	36:DP:148:LEU:HD21	1.80	0.46
37:DQ:81:VAL:HG13	25:DA:2496:C:OP1	2.15	0.46
46:BZ:166:SER:HA	46:BZ:167:PRO:HD2	1.78	0.46
1:AA:554:C:H2'	1:AA:555:C:H6	1.80	0.46
25:BA:196:A:H2'	25:BA:805:G:O6	2.15	0.46
1:CA:405:U:H3'	1:CA:406:G:H5'	1.96	0.46
1:AA:1070:U:H2'	1:AA:1071:C:H6	1.79	0.46
40:DT:100:TYR:HD2	40:DT:103:ARG:HE	1.62	0.46
1:AA:841:U:HO2'	1:AA:842:C:H6	1.61	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2174:C:H2'	25:BA:2175:C:O4'	2.15	0.46
1:AA:334:C:H2'	1:AA:335:C:C6	2.50	0.46
26:DB:82:G:H2'	26:DB:83:G:H8	1.79	0.46
25:DA:391:G:C5	25:DA:411:G:C2	3.03	0.46
25:BA:2395:C:H2'	25:BA:2396:G:O4'	2.15	0.46
25:DA:1339:G:N2	25:DA:1603:A:H1'	2.30	0.46
25:BA:2641:G:H5''	34:BN:99:SER:HB3	1.97	0.46
27:DD:218:ARG:HB3	27:DD:219:PRO:HD2	1.98	0.46
5:CC:152:ILE:HD11	5:CC:167:TRP:CD1	2.50	0.46
41:DU:53:ARG:NH2	25:DA:994:C:OP1	2.49	0.46
25:BA:2537:U:H2'	25:BA:2538:C:C6	2.51	0.46
13:AK:108:ILE:O	20:AR:87:ARG:HA	2.15	0.46
26:DB:17:C:H2'	26:DB:18:G:O4'	2.15	0.46
17:AO:29:VAL:HG11	17:AO:81:LEU:HD21	1.96	0.46
1:CA:750:G:N3	17:CO:23:GLY:HA3	2.29	0.46
25:DA:196:A:H2'	25:DA:805:G:O6	2.16	0.46
27:DD:163:ALA:HA	27:DD:176:ARG:O	2.15	0.46
25:BA:2357:U:O5'	25:BA:2357:U:H6	1.99	0.46
13:CK:108:ILE:O	20:CR:87:ARG:HA	2.15	0.46
28:DE:34:VAL:HB	28:DE:48:GLN:HB3	1.98	0.46
37:DQ:85:LYS:HD3	25:DA:955:C:H5''	1.97	0.46
11:CI:27:THR:O	11:CI:62:TYR:HA	2.16	0.46
25:BA:81:G:H21	45:BY:2:ARG:NH2	2.14	0.46
10:AH:51:VAL:HG21	10:AH:60:ARG:HG3	1.98	0.46
24:CX:96:LEU:HD22	24:CX:96:LEU:O	2.15	0.46
25:DA:1408:C:C2	25:DA:1595:G:N2	2.83	0.46
40:DT:95:ARG:NH1	40:DT:95:ARG:CG	2.74	0.46
39:DS:35:ILE:H	39:DS:53:SER:HB3	1.79	0.46
14:AL:24:PRO:HD2	14:AL:97:TYR:OH	2.15	0.46
49:B2:63:VAL:O	49:B2:67:LYS:HG2	2.14	0.46
24:CX:223:ARG:HA	24:CX:236:ASP:CB	2.46	0.46
39:DS:33:LYS:HD3	39:DS:54:LEU:HG	1.96	0.46
10:CH:6:ILE:O	10:CH:10:LEU:HG	2.14	0.46
38:DR:63:ARG:O	38:DR:67:LEU:HD23	2.16	0.46
30:DG:94:LEU:N	30:DG:94:LEU:HD23	2.29	0.46
11:AI:53:VAL:HG23	11:AI:55:ALA:H	1.79	0.46
18:AP:4:ILE:HD12	18:AP:4:ILE:N	2.30	0.46
1:AA:976:G:H8	1:AA:1358:U:O2'	1.99	0.46
1:AA:676:A:H1'	13:AK:115:PRO:HB3	1.96	0.46
1:AA:69:G:H2'	1:AA:73:G:H8	1.81	0.46
12:AJ:33:GLN:O	12:AJ:75:ILE:HG12	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CJ:34:VAL:HG22	12:CJ:74:ILE:HG22	1.98	0.46
25:BA:2334:G:H4'	25:BA:2335:A:OP2	2.16	0.46
36:DP:83:VAL:HG13	36:DP:114:ILE:HA	1.98	0.46
1:CA:832:C:HO2'	1:CA:833:U:H6	1.61	0.46
45:BY:37:VAL:HG21	45:BY:72:VAL:HG21	1.97	0.46
25:BA:1022:G:C6	25:BA:1141:U:C5	3.03	0.46
44:BX:31:HIS:CG	44:BX:32:PRO:HD2	2.51	0.46
34:BN:57:LEU:HD11	34:BN:139:LEU:O	2.16	0.46
25:BA:1839:G:C8	25:BA:1839:G:H5'	2.49	0.46
48:D1:64:ALA:O	48:D1:67:ILE:HG13	2.16	0.46
45:BY:35:TYR:CE2	45:BY:69:ALA:HB3	2.51	0.46
1:AA:641:U:H1'	1:AA:642:A:N7	2.31	0.46
14:CL:5:THR:HG23	14:CL:8:GLN:NE2	2.30	0.46
17:AO:65:ARG:O	17:AO:68:ARG:HB2	2.14	0.46
25:BA:2815:C:H2'	25:BA:2816:C:H6	1.80	0.46
25:DA:1001:A:H2'	25:DA:1002:G:O4'	2.15	0.46
25:BA:67:U:H2'	25:BA:68:G:H8	1.80	0.46
25:BA:2718:G:H4'	40:BT:98:LYS:HB2	1.97	0.46
25:DA:2317:C:H2'	25:DA:2318:G:O4'	2.15	0.46
2:CY:39:C:H2'	2:CY:40:C:H6	1.80	0.46
13:CK:24:SER:HB3	13:CK:27:ASN:O	2.15	0.46
23:CU:12:LYS:HB3	23:CU:17:THR:O	2.16	0.46
22:CT:43:LEU:HD23	22:CT:46:GLU:OE2	2.16	0.46
1:AA:235:C:H1'	19:AQ:61:GLU:OE1	2.14	0.46
25:DA:67:U:H2'	25:DA:68:G:C8	2.49	0.46
15:AM:84:ILE:HG23	15:AM:85:GLY:H	1.79	0.46
34:BN:105:LEU:O	34:BN:106:LYS:C	2.54	0.46
25:BA:2633:G:O2'	28:BE:61:ARG:HD3	2.15	0.46
27:DD:231:HIS:CD2	27:DD:249:PRO:HA	2.51	0.46
25:BA:1812:A:H2'	25:BA:1813:G:C8	2.51	0.46
45:DY:2:ARG:HD3	25:DA:295:G:O5'	2.15	0.46
25:DA:82:G:H5'	25:DA:295:G:O2'	2.16	0.46
25:BA:82:G:H5'	25:BA:295:G:O2'	2.16	0.46
7:CE:144:THR:O	7:CE:148:VAL:HG23	2.16	0.46
25:DA:2392:A:H2	25:DA:2424:C:H42	1.63	0.46
11:CI:104:ARG:HD2	11:CI:104:ARG:O	2.15	0.46
6:AD:188:LEU:CD1	6:AD:188:LEU:H	2.25	0.46
11:AI:104:ARG:HD2	11:AI:104:ARG:O	2.15	0.46
39:BS:33:LYS:HD3	39:BS:54:LEU:HG	1.97	0.46
27:DD:85:ASP:OD1	27:DD:87:ASN:HB2	2.15	0.46
41:BU:55:ARG:HG2	41:BU:58:ARG:NH1	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:D8:22:VAL:HB	55:D8:54:GLU:HG2	1.97	0.46
25:BA:887:A:H1'	25:BA:889:C:N4	2.31	0.46
8:AF:69:GLU:O	8:AF:72:VAL:HG12	2.16	0.46
6:AD:13:ARG:NH1	6:AD:36:ARG:HD3	2.31	0.46
12:CJ:33:GLN:O	12:CJ:75:ILE:HG12	2.16	0.46
12:CJ:75:ILE:HG13	12:CJ:76:ASN:N	2.27	0.46
6:AD:117:ALA:O	6:AD:121:VAL:HG23	2.16	0.46
15:AM:24:GLY:O	15:AM:25:ILE:HD13	2.16	0.46
25:BA:2886:G:H2'	25:BA:2887:U:H6	1.76	0.46
25:BA:1248:G:P	29:BF:92:PRO:HG3	2.56	0.46
36:BP:111:ARG:HH22	36:BP:148:LEU:HD21	1.80	0.46
52:D5:12:SER:HB3	25:DA:2020:A:C5'	2.45	0.46
25:BA:2893:G:H4'	25:BA:2894:G:C8	2.49	0.46
25:DA:606:U:H4'	25:DA:658:C:H4'	1.98	0.46
26:DB:46:A:H2'	26:DB:47:C:C6	2.50	0.46
1:CA:1064:G:N2	1:CA:1190:G:H2'	2.30	0.46
25:BA:470:A:H2'	25:BA:471:A:O4'	2.16	0.46
30:BG:32:PRO:HA	30:BG:162:THR:OG1	2.15	0.46
1:AA:1063:C:H2'	1:AA:1064:G:C8	2.50	0.46
1:AA:1316:G:H5''	16:AN:17:LYS:HE2	1.98	0.46
1:CA:1072:G:H2'	1:CA:1073:U:C6	2.51	0.46
1:AA:405:U:H3'	1:AA:406:G:H5'	1.96	0.46
54:D7:24:THR:HG23	54:D7:27:GLY:HA3	1.98	0.46
40:DT:98:LYS:HB2	25:DA:2718:G:H4'	1.96	0.46
25:BA:2304:G:H1	25:BA:2312:U:H3	1.62	0.46
25:BA:2572:A:N7	28:BE:145:LYS:HG3	2.31	0.46
31:DH:158:HIS:HB2	31:DH:159:GLU:H	1.61	0.46
1:CA:1188:A:H4'	16:CN:58:LYS:NZ	2.30	0.46
24:CX:289:ARG:O	24:CX:292:GLN:HB2	2.15	0.46
15:CM:84:ILE:HG23	15:CM:85:GLY:H	1.80	0.46
46:DZ:23:LYS:HD3	46:DZ:40:ASP:HA	1.98	0.46
10:CH:40:ALA:HB2	10:CH:45:ILE:HG12	1.97	0.46
7:CE:137:GLU:OE1	7:CE:140:ARG:HB3	2.16	0.46
25:BA:566:U:H2'	25:BA:567:A:O4'	2.15	0.46
25:BA:1298:C:H2'	25:BA:1299:G:O4'	2.16	0.46
25:DA:173:G:H2'	25:DA:174:C:C6	2.51	0.46
1:CA:1195:C:H5''	1:CA:1196:U:OP2	2.15	0.46
1:CA:584:G:H2'	1:CA:585:G:H8	1.80	0.46
1:AA:1415:G:H2'	1:AA:1416:G:C8	2.51	0.46
42:BV:40:LEU:HA	42:BV:45:THR:HB	1.96	0.46
1:AA:865:A:H5'	1:AA:1078:U:O4	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DU:57:PHE:HA	41:DU:60:LEU:HB3	1.98	0.46
1:AA:1149:C:H2'	1:AA:1150:U:C6	2.49	0.46
27:BD:231:HIS:CD2	27:BD:249:PRO:HA	2.51	0.46
1:AA:1288:A:N1	1:AA:1371:G:H1'	2.31	0.46
25:BA:2069:G:C2	25:BA:2070:G:C8	3.04	0.46
30:BG:84:LYS:HB3	30:BG:86:MET:SD	2.55	0.46
7:CE:76:ILE:HD11	7:CE:142:LEU:HD11	1.96	0.46
30:BG:5:LEU:HD21	51:B4:50:THR:HA	1.97	0.46
27:BD:111:LEU:HD22	27:BD:115:GLN:OE1	2.15	0.46
15:CM:90:LEU:O	15:CM:93:ARG:HB2	2.16	0.46
25:BA:250:G:H2'	25:BA:251:A:C8	2.51	0.46
29:DF:160:ASN:OD1	29:DF:162:LEU:HB2	2.15	0.46
1:AA:1065:U:O2'	1:AA:1066:C:OP2	2.31	0.46
29:BF:6:MET:HB3	29:BF:7:TYR:H	1.50	0.46
1:CA:687:A:H4'	1:CA:688:G:O5'	2.15	0.46
53:D6:27:LYS:HG2	53:D6:32:ASN:HD22	1.81	0.46
53:B6:11:LEU:HB2	53:B6:26:ASN:H	1.81	0.46
6:CD:100:ARG:HG2	6:CD:102:ASP:OD1	2.15	0.46
6:AD:105:VAL:HG21	6:AD:121:VAL:CG2	2.45	0.46
21:CS:41:VAL:HG13	21:CS:42:PRO:HD2	1.97	0.46
5:CC:6:HIS:CE1	5:CC:8:ILE:HB	2.50	0.46
25:DA:714:U:H1'	25:DA:717:G:N7	2.31	0.46
25:DA:579:G:C2	25:DA:1262:A:C4	3.04	0.46
47:B0:24:LYS:O	47:B0:25:ARG:HD2	2.15	0.46
25:BA:2020:A:C5	25:BA:2022:U:C5	3.04	0.46
25:BA:2115:G:H4'	25:BA:2166:G:H2'	1.98	0.46
34:BN:58:ARG:HB2	34:BN:65:TRP:CZ3	2.50	0.46
25:BA:1126:A:H4'	25:BA:1127:A:C5'	2.46	0.46
1:CA:254:G:H2'	1:CA:255:G:H8	1.80	0.46
8:AF:61:LEU:N	8:AF:61:LEU:HD12	2.31	0.46
19:CQ:74:LEU:HD12	19:CQ:75:ARG:HG2	1.97	0.46
25:DA:2110:G:H4'	25:DA:2145:C:H42	1.80	0.46
1:CA:79:G:H1	1:CA:90:C:H42	1.62	0.46
31:DH:105:LEU:HD13	31:DH:105:LEU:N	2.30	0.46
25:BA:1256:G:O2'	29:BF:75:HIS:HE1	1.99	0.46
7:CE:145:LYS:HG3	7:CE:149:GLU:OE2	2.16	0.46
26:DB:60:C:H2'	26:DB:61:G:C8	2.51	0.46
18:CP:26:ARG:HH22	18:CP:31:LYS:HD3	1.81	0.46
4:CB:158:LEU:HD12	4:CB:158:LEU:N	2.31	0.46
25:DA:1331:A:O2'	25:DA:1332:G:H8	1.99	0.46
30:BG:143:GLU:CD	30:BG:143:GLU:H	2.19	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DH:17:VAL:HG22	31:DH:26:VAL:HG22	1.97	0.46
25:DA:2174:C:H2'	25:DA:2175:C:O4'	2.15	0.46
1:AA:920:U:H2'	1:AA:921:U:C6	2.50	0.46
1:CA:27:G:N2	1:CA:557:G:H1'	2.31	0.46
20:CR:41:LYS:HE3	20:CR:42:ARG:HH21	1.81	0.46
25:BA:2317:C:H2'	25:BA:2318:G:O4'	2.16	0.46
32:DI:40:THR:O	32:DI:44:LEU:HG	2.16	0.46
40:BT:3:ARG:HH11	40:BT:6:LEU:HD23	1.81	0.46
25:BA:78:A:H2'	25:BA:79:G:C8	2.51	0.46
25:BA:1044:G:O2'	25:BA:1045:A:H5''	2.15	0.46
25:DA:769:G:H2'	25:DA:770:G:H8	1.80	0.46
25:BA:2370:G:H2'	25:BA:2371:G:O4'	2.15	0.46
25:BA:1814:G:H4'	27:BD:51:VAL:HG21	1.97	0.46
45:DY:30:VAL:HG22	45:DY:37:VAL:HG12	1.98	0.46
25:DA:2484:G:H2'	25:DA:2485:G:H8	1.80	0.46
25:DA:2069:G:C6	25:DA:2070:G:N7	2.83	0.46
17:CO:33:THR:HA	17:CO:63:ARG:NH1	2.21	0.46
5:AC:71:ALA:HA	5:AC:106:VAL:HB	1.97	0.46
25:BA:141(A):A:H3'	25:BA:141(B):C:C6	2.50	0.46
30:BG:41:GLN:HG2	30:BG:155:MET:CB	2.43	0.46
55:D8:55:ALA:O	55:D8:59:LYS:HG2	2.15	0.46
36:DP:85:LEU:HD23	36:DP:115:LEU:O	2.16	0.46
25:DA:39:C:H2'	25:DA:40:C:C6	2.51	0.46
55:D8:33:ASN:ND2	55:D8:34:TRP:H	2.14	0.46
1:AA:515:G:C2	1:AA:537:G:C2	3.04	0.46
1:CA:976:G:H5'	1:CA:1358:U:O2'	2.15	0.46
1:CA:976:G:H8	1:CA:1358:U:O2'	1.99	0.46
43:BW:30:GLU:HA	43:BW:33:ARG:HD2	1.97	0.46
28:DE:135:HIS:CD2	25:DA:1658:C:OP1	2.69	0.46
9:CG:107:ALA:HB2	9:CG:134:ALA:HB2	1.97	0.46
35:DO:19:ILE:H	35:DO:19:ILE:HD13	1.81	0.46
4:CB:24:TRP:CD1	4:CB:40:HIS:CE1	3.04	0.46
25:DA:440:G:H2'	25:DA:441:U:C6	2.51	0.46
27:DD:65:ILE:HB	27:DD:67:PHE:CE2	2.51	0.46
8:CF:11:ASN:HA	8:CF:12:PRO:HD2	1.82	0.46
16:AN:37:PHE:O	16:AN:39:LEU:HG	2.15	0.46
44:BX:53:LYS:CE	44:BX:55:ASN:HD21	2.28	0.46
47:D0:24:LYS:O	47:D0:25:ARG:HD2	2.16	0.46
25:BA:2115:G:H8	25:BA:2115:G:O5'	1.99	0.46
36:BP:121:LYS:O	36:BP:123:LEU:HD23	2.15	0.46
24:AX:289:ARG:O	24:AX:292:GLN:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:49:LEU:O	28:BE:78:LEU:HA	2.16	0.46
1:CA:327:A:HO2'	1:CA:329:A:H8	1.62	0.46
25:BA:2815:C:O2'	52:B5:42:PRO:HB2	2.16	0.46
19:CQ:40:LYS:HG2	19:CQ:41:LYS:N	2.31	0.46
25:BA:609(B):G:H2'	25:BA:610:C:C6	2.51	0.46
25:DA:2716:U:H2'	25:DA:2717:G:C8	2.51	0.46
25:DA:610:C:H2'	25:DA:611:C:C6	2.51	0.46
55:D8:6:THR:CG2	55:D8:63:PRO:HG2	2.45	0.46
24:AX:303:ARG:HB3	24:AX:314:ASP:HA	1.97	0.46
25:DA:86:C:H2'	25:DA:87:C:C6	2.51	0.46
7:AE:47:LYS:HD3	7:AE:47:LYS:N	2.31	0.46
25:BA:445:C:H2'	25:BA:446:G:O4'	2.15	0.46
25:DA:2174:C:H6	25:DA:2174:C:O5'	1.99	0.46
1:CA:340:U:H2'	1:CA:341:C:C6	2.51	0.46
25:DA:839:U:H2'	25:DA:840:C:C6	2.51	0.46
11:AI:26:VAL:HG13	11:AI:61:ALA:HB3	1.97	0.46
25:BA:2534:A:H2'	25:BA:2535:G:O4'	2.16	0.46
25:DA:1353:A:H2'	25:DA:1354:A:C8	2.51	0.46
1:AA:1042:G:H2'	1:AA:1043:C:C6	2.50	0.46
46:DZ:9:TYR:OH	46:DZ:61:LEU:HD13	2.16	0.46
25:BA:233:A:H2'	25:BA:234:C:H6	1.81	0.46
7:AE:7:GLU:HB3	7:AE:35:GLY:O	2.16	0.46
25:DA:2320:A:N3	25:DA:2320:A:H2'	2.30	0.46
18:AP:50:LYS:HD3	18:AP:50:LYS:C	2.36	0.46
2:CZ:17:C:H6	2:CZ:17:C:O5'	1.98	0.46
28:DE:176:ILE:O	28:DE:176:ILE:HG22	2.15	0.46
28:DE:183:LEU:HD11	40:DT:11:GLU:HG2	1.98	0.46
27:DD:51:VAL:HG21	25:DA:1814:G:H4'	1.96	0.46
24:CX:96:LEU:HD23	24:CX:348:LEU:HA	1.97	0.46
7:AE:70:PRO:CB	7:AE:144:THR:HG22	2.43	0.46
25:BA:2577:A:H2'	25:BA:2614:A:N6	2.30	0.46
25:BA:498:G:N2	45:BY:47:LYS:HE3	2.23	0.46
39:BS:31:SER:HB3	39:BS:34:HIS:HB2	1.97	0.46
25:BA:224:G:H2'	25:BA:225:A:O4'	2.16	0.46
40:BT:48:ILE:N	40:BT:48:ILE:HD12	2.31	0.46
27:DD:85:ASP:HB2	27:DD:92:ILE:HG23	1.97	0.46
25:BA:443:A:C2'	29:BF:45:ARG:HH12	2.27	0.46
18:CP:4:ILE:N	18:CP:4:ILE:HD12	2.30	0.46
1:AA:1308:U:OP1	15:AM:98:VAL:HG23	2.14	0.46
38:DR:11:ASN:O	38:DR:12:ARG:HB2	2.15	0.46
1:AA:973:G:OP1	1:AA:974:A:H3'	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:440:G:H2'	25:BA:441:U:C6	2.51	0.46
25:BA:245:G:H2'	25:BA:246:C:H6	1.80	0.46
7:CE:43:LEU:HB3	7:CE:136:MET:HG3	1.98	0.46
31:BH:20:ALA:HB1	31:BH:21:PRO:CD	2.46	0.46
25:BA:1677:A:C5	25:BA:1678:G:C5	3.04	0.46
12:AJ:4:ILE:HG22	12:AJ:5:ARG:N	2.30	0.46
5:AC:25:GLY:C	5:AC:27:LYS:H	2.20	0.46
5:CC:25:GLY:C	5:CC:27:LYS:H	2.19	0.46
25:DA:56:A:H2'	25:DA:57:C:C6	2.51	0.46
29:BF:34:TRP:CH2	36:BP:12:ALA:HB2	2.50	0.46
1:AA:295:C:H2'	1:AA:296:U:C6	2.51	0.46
25:BA:1697:G:H3'	25:BA:1698:A:C5'	2.46	0.46
48:B1:64:ALA:O	48:B1:67:ILE:HG13	2.15	0.46
17:AO:37:ASN:O	17:AO:40:SER:HB3	2.16	0.46
1:CA:1063:C:H2'	1:CA:1064:G:C8	2.51	0.46
29:DF:74:ARG:HH11	25:DA:674:G:H1'	1.80	0.46
25:BA:2716:U:H2'	25:BA:2717:G:H8	1.81	0.46
25:BA:2688:U:H1'	25:BA:2721:A:N6	2.31	0.46
25:BA:1154:G:O5'	25:BA:1154:G:H8	1.98	0.46
35:DO:112:MET:HA	35:DO:115:VAL:HG22	1.97	0.46
30:BG:138:GLN:NE2	30:BG:153:ARG:HG2	2.30	0.46
25:DA:1965:C:H3'	25:DA:1966:A:H5''	1.98	0.46
25:DA:422:A:C6	25:DA:423:A:C6	3.04	0.46
7:AE:65:ASN:O	7:AE:66:MET:HB2	2.15	0.46
27:DD:53:PHE:CE1	27:DD:221:VAL:HG12	2.51	0.46
25:BA:2260:C:O5'	25:BA:2260:C:H6	1.99	0.46
1:AA:409:G:OP2	6:AD:22:LYS:HD2	2.16	0.46
25:BA:1686:C:H2'	25:BA:1687:G:O4'	2.15	0.46
18:CP:50:LYS:HD3	18:CP:50:LYS:C	2.35	0.46
1:CA:1042:G:H2'	1:CA:1043:C:C6	2.51	0.46
35:BO:71:ARG:HH12	40:BT:74:ARG:HH22	1.63	0.46
25:BA:2733:A:H2'	25:BA:2734:A:O4'	2.15	0.46
1:AA:27:G:N2	1:AA:557:G:H1'	2.30	0.46
1:AA:1241:G:H2'	1:AA:1242:C:C6	2.51	0.46
13:CK:23:ALA:HB3	13:CK:86:GLY:O	2.16	0.46
50:D3:3:ARG:HD3	50:D3:36:VAL:HG11	1.98	0.46
45:DY:78:ALA:HB3	45:DY:81:LYS:HE3	1.98	0.46
44:DX:30:VAL:HG11	44:DX:39:ILE:CD1	2.46	0.46
42:BV:6:LYS:HA	42:BV:11:GLN:HB3	1.96	0.46
48:B1:11:ARG:HG3	48:B1:61:ARG:C	2.36	0.46
25:BA:274:G:C6	25:BA:275:G:N2	2.84	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DP:91:PHE:CE2	36:DP:95:VAL:HG12	2.51	0.46
24:AX:92:LEU:HG	24:AX:348:LEU:HD22	1.97	0.46
25:DA:1406:U:H2'	25:DA:1407:C:C6	2.51	0.46
20:AR:29:PHE:CE1	20:AR:31:LEU:HB3	2.51	0.46
31:BH:162:ILE:N	31:BH:162:ILE:HD13	2.29	0.46
25:BA:664:C:H2'	25:BA:665:C:H6	1.81	0.46
25:DA:1056:G:H21	25:DA:1103:A:H62	1.64	0.46
25:DA:1651:G:C2	25:DA:2007:C:N3	2.84	0.46
46:DZ:26:GLY:HA2	46:DZ:85:HIS:CD2	2.50	0.46
46:BZ:26:GLY:HA2	46:BZ:85:HIS:CD2	2.50	0.46
21:AS:27:GLU:HB3	21:AS:28:LYS:H	1.62	0.46
25:DA:224:G:H2'	25:DA:225:A:O4'	2.16	0.46
29:BF:41:LEU:O	29:BF:45:ARG:HG3	2.16	0.46
55:B8:33:ASN:HD22	55:B8:34:TRP:H	1.64	0.46
46:BZ:71:VAL:HG11	46:BZ:74:VAL:CG2	2.46	0.46
25:BA:2422:A:N7	55:B8:31:HIS:CE1	2.84	0.46
24:AX:81:LEU:HG	24:AX:85:LYS:HD2	1.98	0.46
9:AG:146:GLU:HA	9:AG:149:ARG:HB2	1.98	0.46
25:BA:833:U:H2'	25:BA:834:C:H6	1.79	0.46
25:BA:2746:U:H2'	25:BA:2747:G:H5'	1.98	0.46
30:DG:16:ARG:HB3	30:DG:17:PRO:CD	2.46	0.46
25:DA:441:U:H2'	25:DA:442:G:H8	1.80	0.46
25:DA:2746:U:H2'	25:DA:2747:G:H5'	1.98	0.46
19:CQ:95:TYR:HD2	19:CQ:98:LEU:HD12	1.81	0.46
27:BD:65:ILE:HB	27:BD:67:PHE:CE2	2.50	0.46
34:DN:135:LEU:HD23	34:DN:136:GLY:N	2.31	0.46
1:AA:832:C:H42	1:AA:854:G:H1	1.64	0.46
25:DA:389:G:C8	25:DA:2413:G:H4'	2.50	0.46
25:BA:2711:A:OP1	25:BA:712(B):A:P	2.74	0.46
1:CA:576:G:OP2	1:CA:577:G:H5''	2.16	0.46
46:DZ:118:GLN:HB2	46:DZ:173:ALA:C	2.37	0.46
4:CB:162:ILE:HD11	4:CB:184:VAL:HG22	1.97	0.46
25:DA:412:A:H3'	25:DA:413:C:H6	1.79	0.46
25:BA:606:U:H4'	25:BA:658:C:H4'	1.98	0.46
32:DI:53:ALA:O	32:DI:57:ARG:HB2	2.15	0.46
25:BA:471:A:H2'	25:BA:472:A:O4'	2.16	0.46
25:DA:312:G:C6	25:DA:313:C:C4	3.04	0.46
31:BH:109:PHE:CZ	31:BH:152:ARG:HD3	2.51	0.46
1:CA:539:A:H2'	1:CA:540:G:H8	1.80	0.46
25:BA:674:G:H1'	29:BF:74:ARG:HH11	1.80	0.46
43:BW:19:LEU:HB3	52:B5:25:LEU:CD1	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CX:64:LEU:HD22	24:CX:70:LEU:HG	1.98	0.46
25:DA:1044:G:O2'	25:DA:1045:A:H5''	2.16	0.46
25:BA:1809:A:H2'	25:BA:1810:A:C8	2.50	0.46
44:BX:66:LEU:HD23	44:BX:67:GLY:N	2.31	0.46
38:BR:8:ARG:CZ	38:BR:43:GLU:HG3	2.46	0.46
25:BA:37:C:O2'	29:BF:50:SER:HB3	2.16	0.46
25:BA:463:G:N1	25:BA:467:G:C6	2.84	0.46
17:CO:67:LEU:HB3	17:CO:78:TYR:HE1	1.81	0.46
32:DI:29:TYR:O	32:DI:33:ARG:HG3	2.16	0.46
10:CH:64:LYS:HG2	10:CH:79:VAL:HG21	1.98	0.46
24:AX:173:TYR:HB3	24:AX:339:LEU:HD22	1.98	0.46
25:BA:769:G:H2'	25:BA:770:G:H8	1.80	0.46
6:AD:119:GLN:HE21	6:AD:119:GLN:HA	1.81	0.46
29:DF:18:ARG:O	29:DF:18:ARG:HG3	2.16	0.46
38:DR:72:ASP:O	38:DR:76:VAL:HG12	2.16	0.46
25:BA:2251:G:H8	25:BA:2251:G:O5'	1.99	0.46
8:AF:5:GLU:HB3	8:AF:62:TRP:HE1	1.80	0.46
9:AG:57:GLU:HA	9:AG:58:PRO:HD2	1.85	0.46
1:AA:419:C:C2	1:AA:425:G:C2	3.04	0.46
25:DA:1218:C:O2'	25:DA:1219:G:H5'	2.16	0.46
44:DX:89:ILE:O	44:DX:93:GLU:HG2	2.16	0.46
42:DV:22:VAL:CG1	42:DV:23:GLU:N	2.74	0.46
25:BA:2426:A:H8	25:BA:2426:A:O5'	2.00	0.46
1:CA:986:A:H2'	1:CA:987:G:C8	2.51	0.46
49:D2:21:LEU:CD1	49:D2:64:LEU:HB3	2.46	0.46
25:DA:2478:A:H5'	25:DA:2479:G:OP2	2.16	0.46
1:AA:891:U:H2'	1:AA:892:A:C8	2.42	0.46
9:CG:106:GLN:O	9:CG:110:GLN:HG3	2.16	0.46
25:BA:1564:C:H2'	25:BA:1565:C:C6	2.51	0.46
27:DD:92:ILE:C	27:DD:92:ILE:HD12	2.37	0.46
27:BD:92:ILE:C	27:BD:92:ILE:HD12	2.36	0.46
25:BA:1308:A:H2'	25:BA:1309:G:O4'	2.16	0.46
1:AA:1053:G:N7	1:AA:1200:C:H5''	2.32	0.46
21:AS:44:MET:O	21:AS:62:ILE:HG21	2.15	0.46
21:CS:45:VAL:HA	21:CS:62:ILE:HG23	1.98	0.46
24:AX:330:GLY:C	24:AX:332:LEU:HD23	2.37	0.46
25:DA:2888:C:H2'	25:DA:2889:C:O4'	2.16	0.46
25:BA:714:U:H1'	25:BA:717:G:N7	2.31	0.46
1:CA:1281:U:H3'	1:CA:1281:U:H6	1.81	0.46
1:AA:576:G:OP2	1:AA:577:G:H5''	2.16	0.46
25:DA:2115:G:H8	25:DA:2115:G:O5'	1.99	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CZ:51:C:H2'	2:CZ:52:G:O4'	2.16	0.46
25:BA:412:A:H3'	25:BA:413:C:H6	1.80	0.46
25:BA:380:U:H2'	25:BA:381:G:C8	2.50	0.46
1:AA:1294:G:H2'	1:AA:1295:G:H8	1.81	0.46
25:DA:470:A:H2'	25:DA:471:A:O4'	2.15	0.46
31:BH:105:LEU:N	31:BH:105:LEU:HD13	2.30	0.46
1:CA:353:A:H5'	1:CA:353:A:C8	2.51	0.46
25:BA:583:G:C6	25:BA:584:C:C5	3.04	0.46
1:CA:1089:G:C2	1:CA:1090:U:C2	3.04	0.46
8:CF:9:VAL:HA	8:CF:59:TYR:O	2.16	0.46
1:AA:1195:C:H5''	1:AA:1196:U:OP2	2.15	0.46
25:BA:2862:G:C6	25:BA:2863:C:C4	3.03	0.46
25:BA:1928:A:H5''	25:BA:1929:G:OP2	2.16	0.46
1:CA:957:U:O2	1:CA:959:A:H8	1.99	0.46
25:BA:119:A:H4'	25:BA:120:U:H5'	1.98	0.46
25:DA:1917:U:H2'	25:DA:1918:A:C8	2.51	0.46
1:AA:785:G:C2	1:AA:786:G:C8	3.04	0.46
5:AC:112:SER:O	5:AC:116:VAL:HG23	2.16	0.46
25:DA:1928:A:H5''	25:DA:1929:G:OP2	2.15	0.46
44:BX:12:VAL:HG12	44:BX:27:THR:O	2.16	0.46
9:AG:26:PHE:O	9:AG:30:ILE:HG12	2.17	0.46
10:AH:69:ARG:HD3	10:AH:69:ARG:HA	1.75	0.46
7:AE:101:ILE:HD11	7:AE:119:LEU:CD2	2.46	0.46
1:AA:340:U:H2'	1:AA:341:C:C6	2.51	0.46
24:CX:264:LYS:O	24:CX:268:ILE:HD13	2.16	0.46
44:BX:89:ILE:O	44:BX:93:GLU:HG2	2.15	0.45
48:D1:11:ARG:HG3	48:D1:61:ARG:C	2.36	0.45
25:DA:2426:A:O5'	25:DA:2426:A:H8	1.99	0.45
46:DZ:77:ASP:HB2	46:DZ:84:GLU:CG	2.36	0.45
25:BA:675:A:C4'	29:BF:67:GLN:NE2	2.78	0.45
25:BA:295:G:O5'	45:BY:2:ARG:HD3	2.15	0.45
25:DA:1349:A:N6	25:DA:1598:C:N4	2.64	0.45
7:AE:144:THR:O	7:AE:148:VAL:HG23	2.15	0.45
14:CL:65:VAL:HG12	14:CL:66:THR:N	2.30	0.45
5:CC:195:VAL:HG12	5:CC:196:LEU:N	2.30	0.45
1:CA:1116:C:H2'	1:CA:1117:G:H5''	1.98	0.45
25:BA:1594:G:H2'	25:BA:1595:G:O4'	2.16	0.45
29:DF:103:LYS:HA	29:DF:106:ARG:CG	2.39	0.45
25:BA:1651:G:C2	25:BA:2007:C:N3	2.84	0.45
5:CC:14:ILE:HG23	5:CC:15:THR:N	2.30	0.45
1:AA:1182:G:H4'	1:AA:1183:A:C5'	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BY:11:ASP:H	45:BY:27:VAL:CG2	2.28	0.45
9:CG:20:ASP:OD1	9:CG:22:LEU:HB3	2.16	0.45
25:BA:2285:C:H5	53:B6:27:LYS:NZ	2.13	0.45
25:BA:245:G:H5''	36:BP:70:GLN:H	1.81	0.45
25:DA:828:U:C5	25:DA:829:A:N6	2.84	0.45
12:CJ:63:PHE:CZ	16:CN:45:ARG:HG3	2.49	0.45
25:BA:2821:A:OP2	25:BA:2822:G:OP2	2.35	0.45
34:DN:117:HIS:CE1	34:DN:120:ARG:HE	2.34	0.45
25:BA:2303:G:H1'	30:BG:132:ASN:ND2	2.29	0.45
25:DA:2711:A:H3'	25:DA:2712:U:H5'	1.97	0.45
34:DN:80:ALA:O	34:DN:83:ILE:HG13	2.16	0.45
25:DA:1750:G:H2'	25:DA:1751:C:C6	2.50	0.45
37:DQ:80:GLU:HB3	37:DQ:81:VAL:H	1.58	0.45
1:CA:641:U:H1'	1:CA:642:A:N7	2.31	0.45
2:CZ:28:C:H2'	2:CZ:29:G:C8	2.51	0.45
25:DA:330:A:O2'	25:DA:331:A:H8	1.99	0.45
25:DA:2825:U:H2'	25:DA:2826:A:O4'	2.16	0.45
1:AA:438:G:H2'	1:AA:494:U:O4	2.15	0.45
1:AA:1073:U:H2'	1:AA:1074:G:H8	1.81	0.45
29:DF:75:HIS:HE1	25:DA:1256:G:O2'	1.99	0.45
1:CA:1253:G:H1	1:CA:1284:C:H42	1.64	0.45
29:BF:203:GLN:HA	29:BF:206:ILE:O	2.16	0.45
1:AA:644:G:C2	1:AA:645:C:H1'	2.52	0.45
2:AY:74:C:O2'	2:AY:75:C:H5'	2.16	0.45
36:BP:112:LEU:HD23	36:BP:113:LYS:N	2.32	0.45
25:DA:2737:G:H2'	25:DA:2738:A:C8	2.51	0.45
25:BA:1735:U:H2'	25:BA:1741:C:C6	2.51	0.45
29:DF:203:GLN:HA	29:DF:206:ILE:O	2.16	0.45
25:DA:815:C:H2'	25:DA:816:C:C6	2.51	0.45
1:AA:994:A:H62	1:AA:1046:A:H2	1.62	0.45
1:AA:948:C:OP1	15:AM:107:ALA:HA	2.16	0.45
28:BE:34:VAL:HB	28:BE:48:GLN:HB3	1.98	0.45
25:DA:585:G:O5'	25:DA:585:G:H8	1.98	0.45
25:BA:1642:G:O5'	25:BA:1642:G:H8	1.99	0.45
22:CT:24:LEU:HD22	22:CT:24:LEU:H	1.81	0.45
25:BA:984:A:H5''	25:BA:985:C:C5	2.51	0.45
5:CC:112:SER:O	5:CC:116:VAL:HG23	2.15	0.45
43:BW:62:HIS:O	43:BW:64:MET:HG3	2.15	0.45
25:DA:2408:U:H2'	25:DA:2409:G:C8	2.51	0.45
28:DE:119:ARG:HD2	28:DE:120:TRP:CE2	2.51	0.45
25:DA:2069:G:C2	25:DA:2070:G:C8	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AL:44:PRO:HG2	14:AL:50:ALA:N	2.28	0.45
30:DG:77:ILE:HG21	30:DG:80:PHE:HB2	1.97	0.45
51:B4:50:THR:HG22	51:B4:51:TYR:N	2.22	0.45
49:D2:63:VAL:O	49:D2:67:LYS:HG2	2.16	0.45
28:BE:6:GLY:HA2	28:BE:51:PHE:CZ	2.51	0.45
38:DR:55:ALA:CB	38:DR:79:LEU:HD22	2.46	0.45
35:BO:87:ILE:HG22	35:BO:92:GLU:N	2.31	0.45
1:AA:976:G:H5'	1:AA:1358:U:O2'	2.16	0.45
25:DA:887:A:H1'	25:DA:889:C:N4	2.31	0.45
48:D1:73:LEU:HD21	48:D1:94:LEU:CD2	2.47	0.45
25:DA:1771:C:HO2'	25:DA:1786:A:H8	1.63	0.45
25:BA:2299:G:H2'	25:BA:2300:G:C8	2.52	0.45
25:BA:441:U:H2'	25:BA:442:G:H8	1.79	0.45
19:AQ:92:ARG:O	19:AQ:95:TYR:HB2	2.16	0.45
19:AQ:95:TYR:HD2	19:AQ:98:LEU:HD12	1.82	0.45
1:CA:303:A:H2'	1:CA:304:U:O4'	2.16	0.45
1:AA:303:A:H2'	1:AA:304:U:O4'	2.16	0.45
34:BN:135:LEU:HD23	34:BN:136:GLY:N	2.30	0.45
1:CA:832:C:H42	1:CA:854:G:H1	1.63	0.45
45:BY:6:HIS:HB2	45:BY:7:VAL:H	1.55	0.45
44:BX:53:LYS:NZ	44:BX:55:ASN:HD21	2.14	0.45
36:BP:7:ARG:O	36:BP:10:PRO:HD3	2.16	0.45
6:CD:3:ARG:HD3	6:CD:5:ILE:CD1	2.46	0.45
25:DA:1697:G:H3'	25:DA:1698:A:C5'	2.46	0.45
13:AK:105:VAL:HG23	13:AK:105:VAL:O	2.15	0.45
7:CE:48:ALA:HB2	7:CE:57:LYS:HD3	1.98	0.45
30:BG:129:GLY:HA3	30:BG:163:ALA:O	2.15	0.45
1:CA:554:C:H2'	1:CA:555:C:H6	1.81	0.45
7:AE:48:ALA:HB2	7:AE:57:LYS:HD3	1.98	0.45
19:AQ:40:LYS:HG2	19:AQ:41:LYS:N	2.32	0.45
1:AA:277:C:OP1	19:AQ:41:LYS:HE3	2.16	0.45
30:DG:143:GLU:H	30:DG:143:GLU:CD	2.19	0.45
25:DA:1154:G:O5'	25:DA:1154:G:H8	2.00	0.45
25:BA:1198:U:H2'	25:BA:1199:U:C6	2.51	0.45
24:AX:238:ALA:HB1	24:AX:253:GLN:HB3	1.99	0.45
25:BA:1003:G:H2'	25:BA:1004:C:C6	2.51	0.45
30:BG:178:PHE:HA	30:BG:179:PRO:HD2	1.82	0.45
1:AA:119:A:H4'	1:AA:120:A:O5'	2.16	0.45
38:DR:8:ARG:CZ	38:DR:43:GLU:HG3	2.46	0.45
1:AA:321:A:H2'	1:AA:322:C:C6	2.51	0.45
28:BE:33:VAL:HG12	28:BE:89:ASP:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2862:G:C6	25:DA:2863:C:C4	3.04	0.45
25:BA:2284:C:O5'	25:BA:2284:C:H6	1.99	0.45
14:AL:19:LYS:H	14:AL:19:LYS:HD3	1.81	0.45
1:CA:1469:G:H8	1:CA:1469:G:O5'	1.99	0.45
51:B4:40:ILE:O	51:B4:47:VAL:HA	2.17	0.45
46:BZ:23:LYS:HD3	46:BZ:40:ASP:HA	1.98	0.45
27:BD:53:PHE:CE1	27:BD:221:VAL:HG12	2.51	0.45
44:BX:51:VAL:HG12	44:BX:52:VAL:N	2.28	0.45
1:AA:1372:U:H2'	1:AA:1373:G:O4'	2.16	0.45
11:AI:62:TYR:C	11:AI:63:ILE:HD12	2.36	0.45
10:CH:51:VAL:HG21	10:CH:60:ARG:HG3	1.98	0.45
20:CR:29:PHE:CD1	20:CR:39:VAL:HG11	2.51	0.45
25:BA:664:C:H4'	25:BA:941:A:OP1	2.16	0.45
39:DS:34:HIS:N	39:DS:34:HIS:CD2	2.85	0.45
1:CA:1288:A:N1	1:CA:1371:G:H1'	2.31	0.45
11:AI:49:PRO:HB2	11:AI:85:LEU:HD21	1.98	0.45
9:AG:106:GLN:O	9:AG:110:GLN:HG3	2.17	0.45
27:DD:32:SER:HA	27:DD:36:PRO:CG	2.46	0.45
27:DD:31:LYS:O	27:DD:36:PRO:HD3	2.17	0.45
27:BD:85:ASP:C	27:BD:87:ASN:H	2.19	0.45
25:DA:1022:G:C6	25:DA:1141:U:C5	3.04	0.45
55:D8:34:TRP:CG	55:D8:35:GLN:N	2.84	0.45
13:AK:21:ILE:HD12	13:AK:21:ILE:N	2.31	0.45
25:BA:1657:C:H2'	25:BA:1658:C:H6	1.82	0.45
8:CF:21:LEU:O	8:CF:25:ILE:HG12	2.16	0.45
34:BN:69:VAL:O	34:BN:70:ALA:HB3	2.17	0.45
25:DA:1259:G:H2'	25:DA:1260:G:C8	2.51	0.45
1:AA:729:A:H2'	1:AA:730:G:O4'	2.16	0.45
14:CL:82:VAL:HG21	14:CL:99:ILE:HD11	1.97	0.45
25:DA:652:U:H5'	25:DA:652:U:C6	2.51	0.45
25:BA:2436:G:H2'	25:BA:2437:U:C6	2.46	0.45
25:BA:389:G:C6	36:BP:71:VAL:HG23	2.51	0.45
25:BA:2711:A:H3'	25:BA:2712:U:H5'	1.97	0.45
25:BA:2516:G:C6	25:BA:2517:C:N4	2.85	0.45
34:BN:80:ALA:O	34:BN:83:ILE:HG13	2.16	0.45
1:AA:1281:U:H6	1:AA:1281:U:H3'	1.81	0.45
1:AA:1187:G:H5'	11:AI:113:LYS:HE2	1.97	0.45
39:BS:26:LEU:O	39:BS:28:VAL:HG23	2.17	0.45
39:BS:14:VAL:HG11	39:BS:89:ARG:HD3	1.99	0.45
16:CN:24:CYS:O	16:CN:28:GLY:HA2	2.15	0.45
47:D0:27:GLU:HB2	47:D0:69:PHE:CD1	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:321:G:OP2	29:BF:135:LYS:HA	2.16	0.45
52:D5:42:PRO:HB2	25:DA:2815:C:O2'	2.17	0.45
37:DQ:63:LYS:HB2	46:DZ:116:VAL:HG11	1.98	0.45
9:AG:79:ARG:HE	9:AG:84:ASN:ND2	2.13	0.45
6:CD:166:LYS:C	6:CD:166:LYS:HD2	2.37	0.45
18:CP:26:ARG:NH2	18:CP:31:LYS:HD3	2.32	0.45
25:DA:611:C:H2'	25:DA:612:G:O4'	2.15	0.45
7:AE:145:LYS:HG3	7:AE:149:GLU:OE2	2.16	0.45
38:BR:54:LEU:HD23	38:BR:54:LEU:O	2.16	0.45
1:CA:409:G:OP2	6:CD:22:LYS:HD2	2.16	0.45
26:BB:82:G:C2	26:BB:95:U:C2	3.03	0.45
25:DA:1198:U:H2'	25:DA:1199:U:C6	2.52	0.45
1:CA:1425:U:H2'	1:CA:1426:C:H6	1.81	0.45
25:DA:2534:A:H2'	25:DA:2535:G:O4'	2.16	0.45
11:AI:3:GLN:HG2	11:AI:20:ARG:HG2	1.98	0.45
34:DN:105:LEU:O	34:DN:106:LYS:C	2.54	0.45
32:BI:7:GLU:OE1	32:BI:8:PRO:HD2	2.17	0.45
35:DO:23:ARG:NH1	25:DA:2562:U:H1'	2.32	0.45
1:AA:957:U:O2	1:AA:959:A:H8	1.99	0.45
27:BD:271:ILE:O	27:BD:272:ALA:HB3	2.16	0.45
25:DA:738:G:H2'	25:DA:739:G:C8	2.52	0.45
25:DA:1289:C:H2'	25:DA:1290:C:H6	1.81	0.45
50:B3:3:ARG:HD3	50:B3:36:VAL:HG11	1.99	0.45
25:BA:585:G:H8	25:BA:585:G:O5'	1.98	0.45
40:DT:3:ARG:HH11	40:DT:6:LEU:HD23	1.81	0.45
25:DA:78:A:H2'	25:DA:79:G:C8	2.51	0.45
1:CA:321:A:H2'	1:CA:322:C:H6	1.81	0.45
1:CA:875:C:H1'	10:CH:15:ASN:OD1	2.16	0.45
25:DA:1843:C:H2'	25:DA:1844:C:C6	2.52	0.45
25:BA:142:G:H2'	25:BA:143:C:O4'	2.17	0.45
1:CA:522:C:N4	14:CL:52:ARG:HH22	2.02	0.45
17:AO:39:LEU:HD12	17:AO:56:LEU:HB2	1.98	0.45
7:AE:69:VAL:HA	7:AE:70:PRO:HD2	1.82	0.45
51:D4:50:THR:HG22	51:D4:51:TYR:N	2.22	0.45
25:BA:2478:A:H5'	25:BA:2479:G:OP2	2.17	0.45
12:AJ:50:ILE:HA	12:AJ:60:ARG:CB	2.43	0.45
31:BH:149:ARG:HA	31:BH:162:ILE:CG1	2.46	0.45
39:DS:31:SER:HB3	39:DS:34:HIS:HB2	1.97	0.45
24:AX:106:ASP:O	24:AX:204:LYS:HG2	2.15	0.45
40:DT:48:ILE:HD12	40:DT:48:ILE:N	2.31	0.45
4:AB:187:LEU:HD22	4:AB:188:ALA:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1564:C:H2'	25:DA:1565:C:C6	2.52	0.45
1:AA:17:U:O2'	1:AA:1079:G:H1'	2.17	0.45
1:CA:1504:G:HO2'	1:CA:1505:G:P	2.38	0.45
1:CA:1502:A:H8	1:CA:1505:G:N2	2.14	0.45
1:CA:1308:U:OP1	15:CM:98:VAL:HG23	2.16	0.45
20:AR:63:GLN:O	20:AR:66:LEU:HB3	2.15	0.45
24:CX:1:MET:O	24:CX:5:LEU:HG	2.17	0.45
53:B6:27:LYS:HG2	53:B6:32:ASN:HD22	1.80	0.45
32:DI:6:LEU:HD23	32:DI:6:LEU:N	2.32	0.45
5:AC:6:HIS:CE1	5:AC:8:ILE:HB	2.51	0.45
25:DA:581:C:H2'	25:DA:582:G:H8	1.78	0.45
21:CS:41:VAL:O	21:CS:44:MET:HB2	2.16	0.45
6:CD:4:TYR:HE1	6:CD:11:LEU:CD1	2.26	0.45
12:CJ:74:ILE:N	12:CJ:74:ILE:HD13	2.29	0.45
27:BD:142:VAL:HG23	27:BD:192:THR:C	2.37	0.45
25:BA:1021:A:C8	25:BA:1021:A:H3'	2.51	0.45
26:DB:40:U:H3'	26:DB:41:U:C5'	2.46	0.45
25:BA:2206:C:N3	25:BA:2219:G:C2	2.85	0.45
1:CA:603:U:H2'	1:CA:604:G:H8	1.82	0.45
2:AZ:51:C:H2'	2:AZ:52:G:O4'	2.17	0.45
26:BB:40:U:H3'	26:BB:41:U:C5'	2.46	0.45
1:AA:262:A:H2'	1:AA:263:A:C8	2.50	0.45
29:DF:14:PRO:CD	29:DF:128:ALA:HB2	2.47	0.45
1:AA:1072:G:H2'	1:AA:1073:U:C6	2.51	0.45
25:BA:2815:C:H2'	25:BA:2816:C:C6	2.52	0.45
37:BQ:69:PHE:HA	37:BQ:70:PRO:HD2	1.86	0.45
37:DQ:68:ILE:HD13	37:DQ:103:MET:HG3	1.99	0.45
1:CA:842:C:H6	1:CA:842:C:H5''	1.81	0.45
25:DA:727:A:H2'	25:DA:728:G:C8	2.52	0.45
1:CA:584:G:H2'	1:CA:585:G:C8	2.51	0.45
1:CA:160:A:H2'	1:CA:161:A:O4'	2.16	0.45
4:AB:183:PRO:HA	4:AB:198:ASP:OD1	2.16	0.45
1:CA:187:C:H2'	1:CA:188:U:O4'	2.15	0.45
13:AK:102:GLY:C	13:AK:103:LEU:HD22	2.37	0.45
24:AX:109:VAL:HB	24:AX:160:PHE:CB	2.46	0.45
36:DP:112:LEU:HD23	36:DP:113:LYS:N	2.32	0.45
1:AA:1131:G:H2'	1:AA:1132:C:C6	2.51	0.45
20:CR:32:ARG:HA	20:CR:69:THR:HG21	1.98	0.45
37:BQ:42:ILE:HD13	37:BQ:97:VAL:HB	1.99	0.45
25:BA:1326:U:H2'	25:BA:1327:C:C6	2.52	0.45
1:CA:574:A:H5''	1:CA:575:G:OP2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DI:7:GLU:OE1	32:DI:8:PRO:HD2	2.17	0.45
9:AG:60:LYS:HA	9:AG:60:LYS:HD2	1.78	0.45
28:BE:176:ILE:HG22	28:BE:176:ILE:O	2.16	0.45
35:BO:14:THR:O	35:BO:14:THR:HG22	2.17	0.45
1:AA:989:C:H2'	1:AA:990:C:H6	1.81	0.45
25:BA:943:U:OP2	36:BP:38:GLN:CD	2.55	0.45
2:AY:4:G:C2	2:AY:70:G:C2	3.05	0.45
5:AC:152:ILE:HD11	5:AC:167:TRP:CD1	2.51	0.45
11:CI:17:VAL:HG11	11:CI:81:ILE:HA	1.98	0.45
30:BG:77:ILE:HG21	30:BG:80:PHE:HB2	1.97	0.45
20:CR:29:PHE:CE1	20:CR:31:LEU:HB3	2.52	0.45
31:DH:149:ARG:HA	31:DH:162:ILE:CG1	2.47	0.45
36:DP:33:ARG:HG2	25:DA:587:C:C5	2.51	0.45
25:BA:569:U:H2'	25:BA:570:G:O4'	2.16	0.45
24:AX:223:ARG:NH1	24:AX:223:ARG:HG3	2.32	0.45
1:AA:1238:A:C8	1:AA:1303:C:H1'	2.52	0.45
11:CI:49:PRO:HB2	11:CI:85:LEU:HD21	1.98	0.45
10:CH:110:ALA:CB	10:CH:121:ASP:HB3	2.47	0.45
15:CM:75:ALA:O	15:CM:79:LYS:HG3	2.16	0.45
1:CA:1228:C:P	15:CM:108:ARG:HH22	2.40	0.45
24:CX:13:ARG:N	24:CX:13:ARG:HD2	2.27	0.45
25:BA:2697:G:H2'	25:BA:2698:U:O4'	2.17	0.45
45:DY:11:ASP:H	45:DY:27:VAL:CG2	2.29	0.45
24:CX:196:THR:HG21	24:CX:297:GLU:HB2	1.99	0.45
24:AX:45:ILE:HA	24:AX:48:ILE:HG12	1.98	0.45
9:AG:20:ASP:OD1	9:AG:22:LEU:HB3	2.16	0.45
4:AB:24:TRP:CD1	4:AB:40:HIS:CE1	3.04	0.45
6:CD:117:ALA:O	6:CD:121:VAL:HG23	2.17	0.45
21:AS:45:VAL:HA	21:AS:62:ILE:HG23	1.98	0.45
27:BD:67:PHE:CE1	27:BD:157:ARG:NH1	2.81	0.45
46:DZ:5:LEU:HB3	46:DZ:59:LEU:HD23	1.99	0.45
14:CL:103:VAL:HG12	14:CL:104:TYR:CD1	2.52	0.45
36:DP:72:PRO:HG2	25:DA:2406:U:C5	2.52	0.45
25:DA:2456:C:O5'	25:DA:2456:C:H6	1.99	0.45
25:BA:2054:A:C2	25:BA:2616:C:C2	3.05	0.45
25:BA:1248:G:OP1	29:BF:92:PRO:HG3	2.16	0.45
44:DX:53:LYS:NZ	44:DX:55:ASN:HD21	2.15	0.45
25:BA:71:A:H4'	25:BA:72:U:H5''	1.98	0.45
25:DA:710:G:C6	25:DA:722:A:C6	3.05	0.45
25:DA:990:A:N6	25:DA:1186:G:H1'	2.31	0.45
25:BA:990:A:N6	25:BA:1186:G:H1'	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:CO:37:ASN:O	17:CO:40:SER:HB3	2.16	0.45
1:CA:435:C:H2'	1:CA:436:C:C6	2.49	0.45
25:DA:2815:C:H2'	25:DA:2816:C:C6	2.51	0.45
5:CC:184:TYR:CE2	5:CC:186:PHE:HB2	2.51	0.45
25:DA:589:C:H2'	25:DA:590:A:H8	1.82	0.45
6:CD:122:ARG:C	6:CD:122:ARG:HD3	2.37	0.45
25:DA:445:C:H2'	25:DA:446:G:O4'	2.17	0.45
35:BO:1:MET:H1	35:BO:67:LYS:HB3	1.82	0.45
25:BA:727:A:H2'	25:BA:728:G:C8	2.51	0.45
1:AA:139:G:H2'	1:AA:140:A:C8	2.51	0.45
15:AM:84:ILE:HG23	15:AM:85:GLY:N	2.31	0.45
1:CA:989:C:H2'	1:CA:990:C:H6	1.81	0.45
25:DA:1326:U:H2'	25:DA:1327:C:C6	2.52	0.45
29:DF:197:ASP:O	29:DF:200:GLU:HB3	2.15	0.45
25:DA:1336:A:H2'	25:DA:1337:G:H8	1.81	0.45
43:DW:62:HIS:O	43:DW:64:MET:HG3	2.16	0.45
43:DW:88:ARG:HB3	43:DW:92:ARG:HB2	1.99	0.45
25:BA:564:C:H2'	25:BA:565:C:H6	1.81	0.45
24:AX:43:GLU:O	24:AX:47:LEU:HG	2.16	0.45
1:AA:967:C:H2'	1:AA:968:A:C8	2.52	0.45
4:AB:212:GLN:HE22	4:AB:216:SER:HB2	1.82	0.45
1:AA:1469:G:O5'	1:AA:1469:G:H8	1.99	0.45
2:AY:39:C:H2'	2:AY:40:C:H6	1.82	0.45
25:BA:733:G:H8	25:BA:733:G:O5'	1.99	0.45
1:AA:160:A:H2'	1:AA:161:A:O4'	2.16	0.45
28:BE:105:THR:HG21	28:BE:164:ARG:CZ	2.46	0.45
27:BD:218:ARG:HB3	27:BD:219:PRO:HD2	1.97	0.45
11:AI:27:THR:O	11:AI:62:TYR:HA	2.17	0.45
4:AB:163:PHE:HD1	4:AB:185:ILE:HG13	1.82	0.45
46:DZ:41:LEU:O	46:DZ:45:ASP:HB2	2.16	0.45
36:BP:91:PHE:CE2	36:BP:95:VAL:HG12	2.51	0.45
25:BA:1418:G:O5'	25:BA:1418:G:H8	2.00	0.45
30:BG:50:ALA:O	30:BG:53:LEU:HB3	2.17	0.45
40:BT:50:ILE:N	40:BT:50:ILE:HD12	2.31	0.45
1:AA:148:G:H2'	1:AA:149:A:C8	2.40	0.45
30:DG:66:GLN:CG	30:DG:67:LYS:H	2.26	0.45
25:DA:1298:C:H2'	25:DA:1299:G:O4'	2.17	0.45
31:BH:101:ARG:NE	31:BH:101:ARG:H	2.06	0.45
36:BP:85:LEU:HD23	36:BP:115:LEU:O	2.15	0.45
29:DF:6:MET:HB3	29:DF:7:TYR:H	1.50	0.45
34:DN:88:LYS:HB2	34:DN:92:GLN:HB2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DU:65:ILE:O	41:DU:68:ALA:HB3	2.17	0.45
48:B1:73:LEU:HD21	48:B1:94:LEU:CD2	2.46	0.45
1:AA:1067:A:H1'	1:AA:1068:G:O4'	2.17	0.45
1:CA:69:G:H2'	1:CA:73:G:H8	1.81	0.45
15:CM:30:ALA:O	15:CM:34:LEU:HG	2.16	0.45
24:AX:1:MET:O	24:AX:5:LEU:HG	2.16	0.45
53:D6:27:LYS:HG3	25:DA:2286:A:OP2	2.16	0.45
15:AM:30:ALA:O	15:AM:34:LEU:HG	2.16	0.45
7:AE:43:LEU:HD23	7:AE:43:LEU:C	2.36	0.45
8:AF:11:ASN:HA	8:AF:12:PRO:HD2	1.82	0.45
1:CA:124:G:C6	1:CA:125:U:C4	3.04	0.45
36:DP:105:LEU:HD23	25:DA:626:U:O2	2.17	0.45
25:BA:1980:G:H8	25:BA:1980:G:C5'	2.29	0.45
45:BY:30:VAL:HG22	45:BY:37:VAL:HG12	1.98	0.45
29:DF:92:PRO:HG3	25:DA:1248:G:OP1	2.16	0.45
1:AA:500:G:H2'	1:AA:501:C:C6	2.52	0.45
25:BA:390:A:H4'	25:BA:391:G:H5'	1.99	0.45
8:CF:47:ARG:NH1	8:CF:56:PRO:HB2	2.32	0.45
1:AA:777:A:H2'	1:AA:778:G:H8	1.78	0.45
1:AA:453:A:H5'	18:AP:72:ARG:HG3	1.98	0.45
23:CU:14:TRP:HE3	23:CU:15:ARG:HG2	1.81	0.45
25:BA:579:G:H2'	25:BA:580:C:C6	2.52	0.45
8:AF:21:LEU:O	8:AF:25:ILE:HG12	2.16	0.45
1:CA:1294:G:H2'	1:CA:1295:G:H8	1.81	0.45
1:CA:1053:G:N7	1:CA:1200:C:H5''	2.32	0.45
24:CX:9:GLU:O	24:CX:12:TYR:HB2	2.17	0.45
38:DR:90:ARG:HH11	38:DR:117:VAL:HG13	1.82	0.45
15:AM:106:ASN:O	15:AM:107:ALA:HB3	2.16	0.45
1:AA:321:A:H2'	1:AA:322:C:H6	1.81	0.45
1:CA:1425:U:H2'	1:CA:1426:C:C6	2.52	0.45
10:AH:64:LYS:HG2	10:AH:79:VAL:HG21	1.99	0.45
35:BO:73:ASP:OD1	35:BO:75:SER:HB3	2.17	0.45
25:BA:270(O):G:H2'	25:BA:270(P):U:H5''	1.98	0.45
25:BA:2494:G:H2'	25:BA:2495:G:H8	1.82	0.45
34:BN:141:LYS:C	34:BN:143:LEU:H	2.20	0.45
24:CX:179:ARG:HD3	24:CX:304:THR:OG1	2.17	0.45
25:BA:1289:C:H2'	25:BA:1290:C:H6	1.82	0.45
21:CS:15:LEU:HD21	21:CS:35:SER:OG	2.17	0.45
1:CA:119:A:H4'	1:CA:120:A:O5'	2.17	0.45
28:BE:183:LEU:HD11	40:BT:11:GLU:HG2	1.98	0.45
41:BU:108:GLU:CD	42:BV:44:LYS:HD3	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:11:TYR:HA	30:BG:15:VAL:HB	1.99	0.45
14:AL:78:GLU:O	14:AL:78:GLU:HG2	2.17	0.45
1:CA:945:G:N3	1:CA:945:G:H2'	2.32	0.45
1:CA:419:C:C2	1:CA:425:G:C2	3.04	0.45
41:DU:108:GLU:CD	42:DV:44:LYS:HD3	2.37	0.45
25:DA:1843:C:H2'	25:DA:1844:C:H6	1.82	0.45
41:DU:92:ARG:CZ	42:DV:11:GLN:HG3	2.47	0.45
4:CB:163:PHE:HD1	4:CB:185:ILE:HG13	1.81	0.45
30:DG:75:LYS:HB3	30:DG:76:SER:H	1.52	0.45
25:DA:2487:G:H2'	25:DA:2488:A:C8	2.52	0.45
30:BG:5:LEU:HD12	30:BG:101:ILE:HG22	1.99	0.45
1:CA:1220:G:H21	21:CS:54:GLY:CA	2.23	0.45
1:CA:1511:G:H8	1:CA:1511:G:O5'	2.00	0.45
15:AM:90:LEU:O	15:AM:93:ARG:HB2	2.16	0.45
28:DE:128:SER:HB3	25:DA:1993:U:H4'	1.97	0.45
39:DS:26:LEU:O	39:DS:28:VAL:HG23	2.17	0.45
25:BA:2306:C:H4'	30:BG:136:ARG:NH2	2.32	0.45
12:CJ:4:ILE:HG22	12:CJ:5:ARG:N	2.31	0.45
27:BD:142:VAL:HG23	27:BD:192:THR:O	2.17	0.45
4:AB:169:LYS:C	4:AB:169:LYS:HE2	2.37	0.45
54:D7:34:ARG:HD2	54:D7:39:ARG:HG3	1.99	0.45
29:BF:123:LEU:HD12	29:BF:192:LEU:HD22	1.99	0.45
25:DA:1677:A:C5	25:DA:1678:G:C5	3.05	0.45
8:CF:55:ASP:HA	8:CF:56:PRO:HD2	1.79	0.45
25:BA:2206:C:H2'	25:BA:2207:C:C6	2.49	0.45
37:BQ:65:PHE:HB2	37:BQ:105:GLU:HG3	1.98	0.45
46:BZ:118:GLN:HB2	46:BZ:173:ALA:C	2.37	0.45
48:B1:82:LEU:N	48:B1:82:LEU:HD12	2.32	0.45
25:BA:914:C:H2'	25:BA:915:C:H5'	1.99	0.45
47:D0:36:ILE:HG23	47:D0:58:THR:HG23	1.99	0.45
25:BA:2110:G:H4'	25:BA:2145:C:H42	1.80	0.45
30:DG:129:GLY:HA3	30:DG:163:ALA:O	2.16	0.45
25:DA:609(B):G:H2'	25:DA:610:C:C6	2.51	0.45
25:BA:2262:U:H4'	25:BA:2328:A:C2	2.51	0.45
25:BA:1331:A:HO2'	25:BA:1332:G:H8	1.64	0.45
28:BE:9:VAL:HG21	40:BT:7:ILE:HG21	1.99	0.45
4:AB:158:LEU:HD12	4:AB:158:LEU:N	2.32	0.45
1:CA:44:G:N2	1:CA:45:U:H1'	2.32	0.45
24:CX:69:GLU:O	24:CX:73:MET:HG3	2.17	0.45
6:AD:22:LYS:HB2	6:AD:26:CYS:SG	2.57	0.45
1:AA:32:A:H2'	1:AA:33:A:C8	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:CO:8:LYS:O	17:CO:12:ILE:HG13	2.16	0.45
1:CA:334:C:H2'	1:CA:335:C:C6	2.52	0.45
25:DA:1516:U:H2'	25:DA:1517:G:C8	2.51	0.45
25:BA:1917:U:H2'	25:BA:1918:A:C8	2.52	0.45
25:DA:572:A:H5''	25:DA:573:G:OP2	2.17	0.45
47:D0:29:GLN:O	47:D0:66:VAL:HA	2.17	0.45
21:CS:51:VAL:O	21:CS:58:VAL:HG22	2.17	0.45
25:DA:2494:G:H2'	25:DA:2495:G:H8	1.82	0.45
25:DA:2251:G:H8	25:DA:2251:G:O5'	1.99	0.45
6:AD:209:ARG:HD2	6:AD:209:ARG:HA	1.78	0.45
37:DQ:52:VAL:HG23	46:DZ:183:LEU:HD13	1.99	0.45
44:BX:30:VAL:HG11	44:BX:39:ILE:CD1	2.46	0.45
48:B1:19:GLN:HG2	48:B1:41:ARG:CB	2.46	0.45
11:AI:17:VAL:HG11	11:AI:81:ILE:HA	1.98	0.45
38:DR:104:ARG:CG	38:DR:104:ARG:NH1	2.66	0.45
25:BA:570:G:H2'	25:BA:2030:A:N7	2.31	0.45
24:AX:223:ARG:HA	24:AX:236:ASP:CB	2.46	0.45
1:AA:1116:C:H2'	1:AA:1117:G:H5''	1.99	0.45
1:AA:1507:A:H5'	1:AA:1507:A:H8	1.81	0.45
27:BD:27:THR:O	27:BD:27:THR:HG23	2.16	0.45
36:DP:84:ASN:HA	36:DP:115:LEU:O	2.16	0.45
1:AA:1498:U:H4'	1:AA:1499:A:O5'	2.17	0.45
1:CA:1493:A:C6	25:DA:1913:A:N7	2.84	0.45
1:AA:1055:A:C5	1:AA:1206:G:C6	3.05	0.45
30:DG:16:ARG:N	30:DG:17:PRO:HD2	2.32	0.45
25:BA:1259:G:H2'	25:BA:1260:G:H8	1.80	0.45
1:CA:794:A:H2'	1:CA:795:C:C6	2.51	0.45
24:AX:91:GLU:O	24:AX:94:ARG:HB3	2.17	0.45
12:CJ:4:ILE:HB	12:CJ:74:ILE:HG12	1.99	0.45
43:BW:26:GLY:C	43:BW:27:LYS:HD2	2.37	0.45
25:BA:710:G:C6	25:BA:722:A:C6	3.05	0.45
29:DF:92:PRO:HG3	25:DA:1248:G:P	2.57	0.45
1:CA:678:U:H2'	1:CA:679:C:H6	1.82	0.45
25:BA:1607:C:H4'	25:BA:1608:A:O5'	2.17	0.45
29:DF:127:GLU:HB2	29:DF:196:LEU:HD12	1.98	0.45
25:DA:2090:G:C6	25:DA:2230:G:C6	3.05	0.45
17:AO:40:SER:O	17:AO:44:LYS:HD2	2.16	0.45
25:BA:1011:G:OP1	41:BU:75:ASN:HB3	2.17	0.45
25:BA:1820:U:C2	27:BD:202:LYS:HB3	2.51	0.45
4:AB:25:ASN:HB3	4:AB:27:LYS:HE2	1.99	0.45
25:BA:2716:U:H2'	25:BA:2717:G:C8	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:DE:145:LYS:HG3	25:DA:2572:A:N7	2.31	0.45
25:DA:823:G:C6	25:DA:824:A:C6	3.05	0.45
7:CE:47:LYS:N	7:CE:47:LYS:HD3	2.32	0.45
25:DA:67:U:H2'	25:DA:68:G:H8	1.81	0.45
1:AA:572:A:N3	1:AA:917:G:H1'	2.31	0.45
51:D4:40:ILE:O	51:D4:47:VAL:HA	2.16	0.45
32:BI:40:THR:O	32:BI:44:LEU:HG	2.17	0.45
25:DA:984:A:H5''	25:DA:985:C:C5	2.51	0.45
1:CA:913:A:H4'	1:CA:914:A:O5'	2.16	0.45
9:AG:78:ARG:NH1	9:AG:156:TRP:HB3	2.31	0.45
9:CG:78:ARG:NH1	9:CG:156:TRP:HB3	2.32	0.45
27:BD:163:ALA:HA	27:BD:176:ARG:O	2.17	0.45
34:DN:141:LYS:C	34:DN:143:LEU:H	2.19	0.45
1:AA:92:G:C5	1:AA:93:U:C4	3.05	0.45
25:DA:725:G:O5'	25:DA:725:G:H8	1.99	0.45
40:BT:68:TYR:N	40:BT:68:TYR:CD2	2.83	0.45
10:AH:40:ALA:HB2	10:AH:45:ILE:HG12	1.97	0.45
25:DA:304:G:C6	25:DA:305:U:C4	3.05	0.45
27:DD:40:THR:HG22	27:DD:41:GLY:N	2.32	0.45
1:CA:979:C:H3'	1:CA:980:C:C5'	2.38	0.45
30:DG:5:LEU:HD12	30:DG:101:ILE:HG22	1.99	0.45
14:CL:23:VAL:HG13	14:CL:97:TYR:HE2	1.78	0.45
39:BS:34:HIS:N	39:BS:34:HIS:CD2	2.85	0.45
15:CM:2:ALA:C	15:CM:9:ILE:HG23	2.38	0.45
30:DG:98:ARG:HH12	26:DB:43:C:H4'	1.82	0.45
1:CA:1346:A:N6	1:CA:1374:A:H3'	2.27	0.45
25:BA:1993:U:H4'	28:BE:128:SER:HB3	1.98	0.45
10:AH:110:ALA:CB	10:AH:121:ASP:HB3	2.46	0.45
18:AP:4:ILE:HG13	18:AP:21:VAL:CG1	2.44	0.45
36:BP:84:ASN:HA	36:BP:115:LEU:O	2.17	0.45
27:DD:35:LYS:HZ1	27:DD:104:TYR:H	1.65	0.45
27:BD:35:LYS:HZ1	27:BD:104:TYR:H	1.65	0.45
26:DB:9:G:C6	26:DB:112:G:C6	3.05	0.45
25:DA:1308:A:H2'	25:DA:1309:G:O4'	2.17	0.45
1:CA:73:G:C2	1:CA:99:C:C2	3.05	0.45
1:CA:973:G:H4'	12:CJ:54:PHE:O	2.17	0.45
1:CA:973:G:OP1	1:CA:974:A:H3'	2.16	0.45
31:BH:137:ASP:OD1	31:BH:139:GLN:HB3	2.16	0.45
1:AA:973:G:H4'	12:AJ:54:PHE:O	2.17	0.45
25:BA:2286:A:OP2	53:B6:27:LYS:HG3	2.16	0.45
47:D0:32:ARG:CA	47:D0:35:ASN:HD21	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CB:115:LEU:HD12	4:CB:118:LEU:HD12	1.99	0.45
25:DA:2821:A:OP2	25:DA:2822:G:OP2	2.34	0.45
26:BB:49:C:O5'	26:BB:49:C:H6	2.00	0.45
29:DF:123:LEU:HD12	29:DF:192:LEU:HD22	1.99	0.45
24:CX:243:HIS:HB3	24:CX:246:THR:OG1	2.17	0.45
29:DF:34:TRP:CH2	36:DP:12:ALA:HB2	2.52	0.45
37:DQ:65:PHE:HB2	37:DQ:105:GLU:HG3	1.98	0.45
1:CA:604:G:C2	1:CA:635:G:C5	3.05	0.45
37:BQ:65:PHE:HZ	46:BZ:118:GLN:HE22	1.65	0.45
1:CA:1216:G:H5''	16:CN:5:ALA:CB	2.47	0.45
1:AA:1216:G:H5''	16:AN:5:ALA:CB	2.46	0.45
25:DA:471:A:H2'	25:DA:472:A:O4'	2.16	0.45
24:AX:128:PHE:CE2	24:AX:158:VAL:HG11	2.52	0.45
1:CA:328:C:H4'	1:CA:329:A:O5'	2.17	0.45
1:CA:1320:C:N4	21:CS:36:ARG:HG3	2.32	0.45
25:DA:310:A:O2'	25:DA:311:A:H2'	2.17	0.45
4:CB:96:ARG:HD2	4:CB:96:ARG:H	1.82	0.45
25:DA:583:G:C6	25:DA:584:C:C5	3.04	0.45
6:AD:166:LYS:C	6:AD:166:LYS:HD2	2.37	0.45
1:CA:948:C:OP1	15:CM:107:ALA:HA	2.16	0.45
42:BV:69:LYS:HA	42:BV:88:ARG:HB3	1.99	0.45
1:CA:139:G:H2'	1:CA:140:A:C8	2.51	0.45
25:BA:2260:C:H2'	25:BA:2261:C:H6	1.82	0.45
20:AR:41:LYS:HE3	20:AR:42:ARG:HH21	1.82	0.45
25:BA:815:C:H2'	25:BA:816:C:C6	2.52	0.45
38:BR:42:LYS:O	38:BR:45:ARG:HB3	2.16	0.45
25:BA:2767:C:H2'	25:BA:2768:C:C6	2.52	0.45
1:CA:823:G:H2'	1:CA:824:C:C6	2.52	0.45
10:CH:23:SER:HB3	10:CH:62:TYR:HA	1.99	0.45
25:BA:938:G:C2	25:BA:939:G:N7	2.85	0.45
1:AA:953:G:C6	1:AA:954:G:C5	3.05	0.45
14:AL:57:VAL:O	14:AL:59:LEU:HD22	2.17	0.45
25:BA:1769:G:C6	25:BA:1984:G:C6	3.04	0.45
25:DA:1735:U:H2'	25:DA:1741:C:C6	2.52	0.45
1:AA:1141:C:H2'	1:AA:1142:G:C8	2.52	0.45
25:BA:2077:A:C5	25:BA:2435:A:C5	3.04	0.45
24:AX:317:ILE:H	24:AX:317:ILE:HD13	1.82	0.45
25:DA:2284:C:O5'	25:DA:2284:C:H6	2.00	0.45
24:AX:19:LEU:O	24:AX:19:LEU:HD23	2.17	0.45
25:DA:836:G:O5'	25:DA:836:G:H8	2.00	0.45
25:DA:1686:C:H2'	25:DA:1687:G:O4'	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1141:C:H2'	1:CA:1142:G:C8	2.52	0.45
25:BA:342:G:H2'	25:BA:343:C:H6	1.82	0.45
44:DX:26:TYR:CD1	44:DX:89:ILE:HG12	2.52	0.45
7:AE:92:LYS:O	7:AE:118:ILE:HD12	2.17	0.45
1:AA:1220:G:H21	21:AS:54:GLY:CA	2.23	0.45
49:B2:21:LEU:CD1	49:B2:64:LEU:HB3	2.46	0.45
36:DP:23:PRO:O	36:DP:33:ARG:HA	2.17	0.45
35:BO:61:VAL:O	35:BO:84:ALA:HB1	2.17	0.45
41:BU:65:ILE:O	41:BU:68:ALA:HB3	2.17	0.45
40:DT:50:ILE:N	40:DT:50:ILE:HD12	2.32	0.45
1:CA:515:G:C2	1:CA:537:G:C2	3.05	0.45
25:DA:2420:C:H6	25:DA:2420:C:O5'	2.01	0.45
55:B8:22:VAL:HB	55:B8:54:GLU:HG2	1.98	0.45
1:AA:1066:C:H3'	1:AA:1067:A:C8	2.51	0.45
1:AA:73:G:C2	1:AA:99:C:C2	3.05	0.45
43:BW:69:LEU:HD13	43:BW:107:LEU:HD23	1.99	0.45
9:CG:70:LYS:HG3	9:CG:96:GLN:HB3	1.99	0.45
1:CA:505:G:C6	1:CA:535:A:C2	3.05	0.45
6:CD:105:VAL:HG21	6:CD:121:VAL:HG22	1.98	0.45
25:BA:582:G:C2	25:BA:1259:G:C2	3.05	0.45
21:AS:41:VAL:O	21:AS:44:MET:HB2	2.16	0.45
30:BG:38:VAL:HG12	30:BG:39:ILE:N	2.32	0.45
15:CM:24:GLY:O	15:CM:25:ILE:HD13	2.16	0.45
36:BP:83:VAL:HG13	36:BP:114:ILE:HA	1.99	0.45
25:DA:2712:U:H1'	25:DA:712(B):A:H8	1.79	0.45
25:DA:2469:A:H2	25:DA:2481:G:H21	1.65	0.45
25:BA:2496:C:OP1	37:BQ:81:VAL:HG13	2.17	0.45
25:DA:2516:G:C6	25:DA:2517:C:N4	2.84	0.45
34:DN:57:LEU:HD11	34:DN:139:LEU:O	2.17	0.45
1:CA:453:A:H5'	18:CP:72:ARG:HG3	1.99	0.45
25:BA:618(A):G:C2	25:BA:618(B):C:C2	3.05	0.45
24:AX:246:THR:OG1	24:AX:248:ILE:HG22	2.16	0.45
1:AA:604:G:C2	1:AA:635:G:C5	3.05	0.45
4:AB:162:ILE:HD11	4:AB:184:VAL:HG22	1.98	0.45
1:AA:296:U:H2'	1:AA:297:G:H8	1.78	0.45
1:CA:1191:A:H2'	1:CA:1192:C:C6	2.52	0.45
25:DA:2619:C:O2'	25:DA:2620:C:H5'	2.17	0.45
18:AP:26:ARG:HH22	18:AP:31:LYS:HD3	1.81	0.45
25:BA:2825:U:H2'	25:BA:2826:A:O4'	2.17	0.45
25:DA:1461:G:H2'	25:DA:1462:C:H6	1.82	0.45
24:AX:180:VAL:HG13	24:AX:195:SER:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:2260:C:H2'	25:DA:2261:C:H6	1.82	0.45
24:CX:43:GLU:O	24:CX:47:LEU:HG	2.17	0.45
23:AU:12:LYS:HB3	23:AU:17:THR:O	2.16	0.45
25:BA:1614:A:N6	43:BW:88:ARG:H	2.15	0.45
24:CX:109:VAL:HB	24:CX:160:PHE:CB	2.46	0.45
46:BZ:9:TYR:OH	46:BZ:61:LEU:HD13	2.17	0.45
25:DA:342:G:H2'	25:DA:343:C:H6	1.82	0.45
25:BA:1662:C:H2'	25:BA:1663:C:C6	2.52	0.45
25:DA:1809:A:H2'	25:DA:1810:A:C8	2.52	0.45
25:BA:1965:C:H3'	25:BA:1966:A:H5''	2.00	0.45
25:DA:2121:G:H2'	25:DA:2122:U:C6	2.52	0.45
25:DA:1003:G:H2'	25:DA:1004:C:C6	2.52	0.45
49:B2:1:MET:SD	49:B2:1:MET:O	2.75	0.45
14:CL:78:GLU:HG2	14:CL:78:GLU:O	2.17	0.45
25:BA:1054:A:H2'	25:BA:1055:G:C8	2.52	0.45
1:AA:799:G:C2	1:AA:800:G:H1'	2.52	0.45
25:BA:422:A:C6	25:BA:423:A:C6	3.05	0.45
44:DX:30:VAL:HG11	44:DX:39:ILE:HD12	1.98	0.44
13:AK:29:ILE:C	13:AK:29:ILE:HD12	2.37	0.44
29:DF:67:GLN:NE2	25:DA:675:A:C4'	2.81	0.44
10:CH:51:VAL:HG21	10:CH:60:ARG:CG	2.47	0.44
25:BA:768:G:O2'	25:BA:1379:A:N6	2.46	0.44
17:AO:33:THR:HG21	17:AO:85:LEU:HD22	1.99	0.44
52:D5:4:HIS:O	25:DA:2056:G:N2	2.50	0.44
31:DH:102:ALA:HB2	31:DH:117:PRO:HD3	1.99	0.44
44:DX:23:GLU:HG3	44:DX:24:GLY:N	2.25	0.44
30:DG:60:LEU:HD13	30:DG:60:LEU:C	2.37	0.44
1:AA:1228:C:P	15:AM:108:ARG:HH22	2.40	0.44
25:BA:195:A:N7	25:BA:197:A:OP1	2.50	0.44
21:AS:28:LYS:HE2	21:AS:29:ARG:HH12	1.81	0.44
26:BB:9:G:C6	26:BB:112:G:C6	3.05	0.44
15:CM:98:VAL:C	15:CM:99:ARG:HD2	2.38	0.44
1:AA:688:G:N2	1:AA:699:C:O2	2.49	0.44
32:DI:62:LYS:HE3	32:DI:136:VAL:CG2	2.47	0.44
6:CD:13:ARG:NH1	6:CD:36:ARG:HD3	2.32	0.44
1:CA:1066:C:H3'	1:CA:1067:A:C8	2.52	0.44
25:DA:2299:G:H2'	25:DA:2300:G:C8	2.52	0.44
7:CE:43:LEU:HD23	7:CE:43:LEU:C	2.36	0.44
25:DA:1817:G:C6	25:DA:1818:U:C5	3.05	0.44
27:DD:142:VAL:HG23	27:DD:192:THR:C	2.37	0.44
25:DA:1259:G:H2'	25:DA:1260:G:H8	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DZ:5:LEU:HD21	46:DZ:39:VAL:HB	1.99	0.44
12:AJ:34:VAL:HG22	12:AJ:74:ILE:HG22	1.99	0.44
46:BZ:5:LEU:HB3	46:BZ:59:LEU:HD23	1.99	0.44
1:CA:176:C:H5''	22:CT:29:LYS:HZ2	1.82	0.44
47:B0:32:ARG:CA	47:B0:35:ASN:HD21	2.30	0.44
1:CA:729:A:H2'	1:CA:730:G:O4'	2.17	0.44
34:BN:117:HIS:CE1	34:BN:120:ARG:HE	2.35	0.44
4:AB:55:PHE:CE1	4:AB:218:ALA:HA	2.50	0.44
43:DW:26:GLY:C	43:DW:27:LYS:HD2	2.37	0.44
25:BA:616:A:O2'	25:BA:617:G:P	2.75	0.44
37:DQ:65:PHE:HZ	46:DZ:118:GLN:HE22	1.64	0.44
25:BA:579:G:C2	25:BA:1262:A:C4	3.04	0.44
25:DA:2115:G:H4'	25:DA:2166:G:H2'	1.98	0.44
39:BS:87:PHE:CE2	39:BS:89:ARG:HA	2.52	0.44
36:DP:121:LYS:O	36:DP:123:LEU:HD23	2.16	0.44
1:CA:935:A:H2'	1:CA:936:C:H6	1.82	0.44
32:BI:53:ALA:O	32:BI:57:ARG:HB2	2.16	0.44
34:DN:58:ARG:C	34:DN:60:LYS:H	2.20	0.44
17:AO:41:GLU:O	17:AO:44:LYS:HB2	2.18	0.44
1:AA:328:C:H4'	1:AA:329:A:O5'	2.17	0.44
31:DH:109:PHE:CZ	31:DH:152:ARG:HD3	2.51	0.44
25:DA:791:C:H4'	25:DA:792:G:OP1	2.17	0.44
5:AC:184:TYR:CE2	5:AC:186:PHE:HB2	2.51	0.44
25:DA:1569:A:H2'	25:DA:1570:A:O4'	2.16	0.44
37:BQ:68:ILE:HD13	37:BQ:103:MET:HG3	1.99	0.44
25:BA:1754:C:H2'	25:BA:1755:A:O4'	2.18	0.44
38:DR:54:LEU:HD11	38:DR:65:LEU:HD23	1.98	0.44
25:DA:272:G:C2	25:DA:273(A):G:C4	3.05	0.44
41:BU:79:PHE:CD1	41:BU:79:PHE:C	2.90	0.44
54:B7:24:THR:HG23	54:B7:27:GLY:HA3	1.98	0.44
1:AA:192:U:H2'	1:AA:193:C:H6	1.82	0.44
25:DA:1587:A:H2'	25:DA:1588:C:H6	1.82	0.44
43:DW:19:LEU:HB3	52:D5:25:LEU:CD1	2.47	0.44
25:DA:2732:G:O2'	25:DA:2733:A:H5'	2.17	0.44
25:BA:2476:A:H2'	25:BA:2477:C:H5''	1.99	0.44
1:AA:585:G:H4'	14:AL:7:ASN:HD21	1.82	0.44
25:BA:1003:G:H2'	25:BA:1004:C:H6	1.82	0.44
28:BE:183:LEU:HD21	40:BT:11:GLU:HG2	1.99	0.44
1:AA:918:A:H2'	1:AA:919:A:O4'	2.17	0.44
7:CE:59:GLY:O	7:CE:63:ARG:HG3	2.17	0.44
25:DA:2065:C:H1'	25:DA:2449:U:O2	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1600:C:O2'	25:DA:1601:G:H5'	2.16	0.44
25:BA:1098:A:H2'	25:BA:1099:G:H8	1.81	0.44
28:DE:105:THR:HG21	28:DE:164:ARG:CZ	2.47	0.44
25:DA:847:U:H3	25:DA:934:G:N2	2.16	0.44
27:DD:129:ASN:H	27:DD:193:VAL:HG12	1.81	0.44
2:CY:65:C:H2'	2:CY:66:C:C6	2.52	0.44
25:DA:449:A:C6	25:DA:450:G:C5	3.05	0.44
1:CA:112:G:H5'	1:CA:389:A:H4'	1.99	0.44
1:AA:198:G:C6	1:AA:220:G:C2	3.05	0.44
24:CX:238:ALA:HB1	24:CX:253:GLN:HB3	1.99	0.44
39:DS:49:VAL:HG13	39:DS:76:LYS:HD2	1.99	0.44
7:AE:59:GLY:O	7:AE:63:ARG:HG3	2.17	0.44
43:DW:25:ARG:HB2	43:DW:25:ARG:NH1	2.33	0.44
25:BA:725:G:H8	25:BA:725:G:O5'	1.99	0.44
54:B7:3:ARG:HD3	54:B7:3:ARG:HA	1.81	0.44
25:DA:1826:G:H2'	25:DA:1827:C:C6	2.52	0.44
45:DY:81:LYS:CD	45:DY:97:ARG:HB3	2.43	0.44
44:BX:30:VAL:HG11	44:BX:39:ILE:HD12	1.98	0.44
25:DA:1542:G:H5'	25:DA:1542:G:N3	2.32	0.44
25:BA:675:A:H8	25:BA:675:A:H5''	1.82	0.44
1:CA:1314:C:H5	21:CS:6:LYS:HZ1	1.63	0.44
28:DE:86:PRO:HB2	28:DE:87:GLU:H	1.61	0.44
49:B2:17:SER:HB3	49:B2:18:PRO:HD3	1.97	0.44
38:BR:17:ARG:HG3	38:BR:18:LEU:N	2.32	0.44
30:BG:60:LEU:C	30:BG:60:LEU:HD13	2.37	0.44
34:BN:40:ASP:CG	34:BN:41:ALA:N	2.71	0.44
29:DF:45:ARG:HH12	25:DA:443:A:C2'	2.27	0.44
32:BI:66:GLU:HB3	32:BI:67:ARG:NH1	2.31	0.44
27:DD:27:THR:HG23	27:DD:27:THR:O	2.17	0.44
27:BD:25:THR:HG21	27:BD:82:ILE:H	1.81	0.44
35:BO:19:ILE:HD13	35:BO:19:ILE:H	1.82	0.44
1:AA:124:G:C6	1:AA:125:U:C4	3.05	0.44
25:BA:1980:G:C6	25:BA:1982:C:N4	2.85	0.44
25:BA:828:U:C5	25:BA:829:A:N6	2.85	0.44
1:AA:451:A:H61	1:AA:480:U:H2'	1.81	0.44
1:CA:1049:U:H4'	1:CA:1050:G:OP2	2.17	0.44
1:CA:1514:C:H2'	1:CA:1515:C:C6	2.52	0.44
37:DQ:81:VAL:HG12	37:DQ:82:ARG:N	2.32	0.44
1:CA:1300:G:O2'	1:CA:1301:U:OP2	2.35	0.44
27:DD:119:ALA:HA	27:DD:130:ALA:O	2.17	0.44
24:CX:230:GLN:HE21	25:DA:2506:U:H1'	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DF:169:ASN:ND2	25:DA:322:A:H2'	2.32	0.44
6:CD:93:PHE:CE1	6:CD:97:LEU:HD11	2.52	0.44
29:BF:14:PRO:CD	29:BF:128:ALA:HB2	2.46	0.44
25:DA:1961:C:O2'	25:DA:1962:C:H5'	2.17	0.44
26:BB:60:C:H2'	26:BB:61:G:C8	2.51	0.44
25:DA:2688:U:H1'	25:DA:2721:A:N6	2.33	0.44
1:CA:627:G:H2'	1:CA:628:G:H8	1.82	0.44
24:AX:69:GLU:O	24:AX:73:MET:HG3	2.17	0.44
1:CA:957:U:H4'	21:CS:79:THR:HB	1.99	0.44
7:AE:137:GLU:OE1	7:AE:140:ARG:HB3	2.16	0.44
2:AY:68:C:H2'	2:AY:69:C:C6	2.52	0.44
1:AA:823:G:H2'	1:AA:824:C:C6	2.52	0.44
25:BA:173:G:H2'	25:BA:174:C:C6	2.52	0.44
30:BG:111:LEU:HB2	30:BG:112:PRO:HD3	1.99	0.44
1:CA:711:G:O2'	1:CA:712:A:H5'	2.16	0.44
17:AO:8:LYS:O	17:AO:12:ILE:HG13	2.17	0.44
1:AA:702:A:C6	25:BA:1848:A:C6	3.05	0.44
38:BR:72:ASP:O	38:BR:76:VAL:HG12	2.17	0.44
1:CA:1380:U:O2'	9:CG:3:ARG:HD3	2.18	0.44
25:DA:2767:C:H2'	25:DA:2768:C:C6	2.53	0.44
41:DU:8:VAL:HG13	41:DU:11:ARG:HH21	1.81	0.44
25:DA:535:C:H6	25:DA:535:C:O5'	2.00	0.44
14:CL:19:LYS:H	14:CL:19:LYS:HD3	1.82	0.44
1:CA:401:C:H2'	1:CA:402:G:C8	2.52	0.44
1:CA:967:C:H2'	1:CA:968:A:C8	2.52	0.44
4:CB:212:GLN:HE22	4:CB:216:SER:HB2	1.82	0.44
25:BA:1336:A:H2'	25:BA:1337:G:H8	1.81	0.44
1:CA:1226:C:H2'	15:CM:103:THR:HB	1.99	0.44
1:CA:109:A:C6	1:CA:326:G:C6	3.06	0.44
25:DA:142:G:H2'	25:DA:143:C:O4'	2.17	0.44
11:AI:69:GLY:O	11:AI:73:GLN:HG3	2.18	0.44
4:CB:70:PHE:HA	4:CB:163:PHE:O	2.17	0.44
1:AA:522:C:H5''	14:AL:119:TYR:OH	2.16	0.44
36:BP:59:LEU:HA	36:BP:61:ARG:CZ	2.47	0.44
14:AL:65:VAL:HG12	14:AL:66:THR:N	2.30	0.44
28:DE:6:GLY:HA2	28:DE:51:PHE:CZ	2.51	0.44
1:CA:1507:A:H5'	1:CA:1507:A:H8	1.81	0.44
27:BD:108:PRO:HG2	27:BD:111:LEU:HD23	1.99	0.44
38:BR:55:ALA:CB	38:BR:79:LEU:HD22	2.46	0.44
1:CA:934:C:H5	1:CA:1344:C:H2'	1.82	0.44
25:DA:1668:A:C5	25:DA:1674:G:C5	3.06	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1521:G:H2'	1:AA:1522:U:H6	1.82	0.44
35:DO:8:LEU:HB2	35:DO:19:ILE:CD1	2.45	0.44
36:DP:55:ARG:NH1	25:DA:833:U:H1'	2.32	0.44
27:DD:157:ARG:HH21	25:DA:1817:G:H3'	1.81	0.44
4:CB:169:LYS:HE2	4:CB:169:LYS:C	2.38	0.44
25:BA:1817:G:C6	25:BA:1818:U:C5	3.05	0.44
25:BA:1952:A:C5	25:BA:1953:A:C6	3.06	0.44
25:DA:2134:A:H61	25:DA:2157:G:H1'	1.82	0.44
4:AB:115:LEU:HD12	4:AB:118:LEU:HD12	1.99	0.44
24:CX:91:GLU:O	24:CX:94:ARG:HB3	2.17	0.44
29:BF:192:LEU:HD23	29:BF:193:VAL:N	2.33	0.44
25:BA:72:U:H6	49:B2:61:LEU:HD23	1.83	0.44
39:BS:26:LEU:C	39:BS:88:ASP:HB3	2.38	0.44
35:DO:103:ALA:H	35:DO:106:LEU:HD13	1.82	0.44
34:BN:58:ARG:C	34:BN:60:LYS:H	2.21	0.44
47:B0:36:ILE:HG23	47:B0:58:THR:HG23	1.97	0.44
25:DA:478:A:C6	25:DA:480:A:C6	3.05	0.44
1:AA:327:A:HO2'	1:AA:329:A:H8	1.61	0.44
25:BA:1278:A:H2'	25:BA:1279:G:C8	2.52	0.44
4:AB:96:ARG:HD2	4:AB:96:ARG:H	1.82	0.44
19:CQ:40:LYS:HD2	19:CQ:42:TYR:CZ	2.52	0.44
37:BQ:63:LYS:HB2	46:BZ:116:VAL:HG11	1.99	0.44
25:DA:1332:G:H5'	25:DA:1333:C:H5	1.81	0.44
1:AA:1089:G:C2	1:AA:1090:U:C2	3.05	0.44
28:DE:13:ARG:O	40:DT:57:PHE:HE1	2.01	0.44
1:AA:842:C:H6	1:AA:842:C:H5''	1.81	0.44
26:DB:82:G:C2	26:DB:95:U:C2	3.05	0.44
26:DB:18:G:H2'	26:DB:19:G:C8	2.53	0.44
25:DA:2561:A:H2'	25:DA:2562:U:O4'	2.18	0.44
25:BA:937:U:H2'	25:BA:938:G:O4'	2.18	0.44
25:DA:1003:G:H2'	25:DA:1004:C:H6	1.82	0.44
25:DA:449:A:N6	25:DA:450:G:C6	2.85	0.44
31:BH:43:VAL:HA	31:BH:52:VAL:HG22	2.00	0.44
24:AX:133:ARG:O	24:AX:136:GLU:HB2	2.17	0.44
45:BY:59:GLY:C	45:BY:61:ILE:H	2.21	0.44
25:DA:1662:C:H2'	25:DA:1663:C:C6	2.52	0.44
1:AA:574:A:H5''	1:AA:575:G:OP2	2.17	0.44
25:DA:621:A:H2'	25:DA:622:G:O4'	2.18	0.44
1:CA:309:G:H1'	1:CA:608:A:N1	2.33	0.44
43:DW:77:ASP:OD1	25:DA:24:G:H1'	2.18	0.44
1:AA:309:G:H1'	1:AA:608:A:N1	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:854:G:H1	25:BA:923:C:H42	1.65	0.44
25:BA:304:G:C6	25:BA:305:U:C4	3.04	0.44
30:DG:120:LEU:N	30:DG:181:ARG:H	2.16	0.44
45:BY:14:LEU:HD23	45:BY:14:LEU:C	2.38	0.44
25:DA:923:C:H2'	25:DA:924:C:C6	2.52	0.44
21:AS:11:VAL:HG22	21:AS:12:ASP:H	1.83	0.44
1:CA:1131:G:H2'	1:CA:1132:C:C6	2.52	0.44
1:CA:1415:G:H2'	1:CA:1416:G:C8	2.52	0.44
4:AB:70:PHE:HA	4:AB:163:PHE:O	2.17	0.44
37:BQ:43:THR:OG1	37:BQ:46:GLN:HG3	2.17	0.44
25:BA:857:C:H2'	25:BA:858:U:C6	2.53	0.44
1:CA:980:C:H3'	1:CA:981:U:C6	2.52	0.44
36:DP:58:THR:HG23	36:DP:61:ARG:HH21	1.82	0.44
25:BA:2487:G:H2'	25:BA:2488:A:C8	2.53	0.44
25:DA:1056:G:O2'	25:DA:1086:A:H1'	2.17	0.44
25:DA:570:G:H2'	25:DA:2030:A:N7	2.32	0.44
1:AA:1511:G:O5'	1:AA:1511:G:H8	2.00	0.44
21:CS:28:LYS:HE2	21:CS:29:ARG:HH12	1.81	0.44
1:AA:934:C:H5	1:AA:1344:C:H2'	1.82	0.44
55:B8:34:TRP:CG	55:B8:35:GLN:N	2.85	0.44
13:CK:21:ILE:HD12	13:CK:21:ILE:N	2.32	0.44
9:AG:15:ASP:OD1	9:AG:18:TYR:HB2	2.17	0.44
4:AB:29:ALA:O	4:AB:32:ILE:HG22	2.17	0.44
30:DG:6:ALA:O	30:DG:10:LYS:HG3	2.18	0.44
25:BA:61:G:H5'	49:B2:50:ILE:HG21	1.99	0.44
25:BA:1060:U:H4'	25:BA:1061:U:C3'	2.46	0.44
49:D2:52:ASP:O	49:D2:56:GLN:HB2	2.16	0.44
12:AJ:4:ILE:HB	12:AJ:74:ILE:HG12	1.98	0.44
36:DP:72:PRO:HB2	25:DA:2406:U:C4	2.53	0.44
29:BF:22:ALA:HB1	29:BF:24:LEU:HD13	2.00	0.44
1:CA:832:C:N4	1:CA:855:G:O6	2.50	0.44
25:BA:2735:G:C2	25:BA:2736:G:C5	3.05	0.44
25:BA:2888:C:H2'	25:BA:2889:C:O4'	2.18	0.44
29:BF:157:VAL:HB	29:BF:194:MET:CB	2.48	0.44
25:DA:2735:G:C2	25:DA:2736:G:C5	3.05	0.44
25:BA:2514:U:H2'	25:BA:2515:C:H6	1.81	0.44
12:CJ:80:LYS:O	12:CJ:84:GLN:HB2	2.17	0.44
25:DA:618(A):G:C2	25:DA:618(B):C:C2	3.05	0.44
46:BZ:14:LYS:HB2	46:BZ:17:ALA:HB3	2.00	0.44
25:DA:579:G:H2'	25:DA:580:C:C6	2.52	0.44
47:D0:21:LEU:N	47:D0:21:LEU:HD12	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:434:U:H2'	1:CA:435:C:C6	2.52	0.44
47:B0:27:GLU:HB2	47:B0:69:PHE:CD1	2.49	0.44
44:DX:57:LEU:HD23	25:DA:1340:U:H3'	1.98	0.44
1:CA:1321:C:H3'	1:CA:1322:C:H5''	1.99	0.44
25:BA:2580:U:H5'	28:BE:131:ALA:H	1.82	0.44
1:AA:696:A:O5'	1:AA:696:A:H8	2.01	0.44
25:BA:272:G:C2	25:BA:273(A):G:C4	3.06	0.44
18:AP:26:ARG:NH2	18:AP:31:LYS:HD3	2.32	0.44
25:BA:1227:G:OP1	41:BU:13:LYS:HG2	2.18	0.44
25:DA:2716:U:H2'	25:DA:2717:G:H8	1.81	0.44
25:BA:775:G:C4	25:BA:794:G:C8	3.05	0.44
19:AQ:54:GLY:HA3	19:AQ:82:MET:CE	2.46	0.44
1:AA:627:G:H2'	1:AA:628:G:H8	1.81	0.44
24:AX:64:LEU:HD22	24:AX:70:LEU:HG	1.98	0.44
25:BA:86:C:H2'	25:BA:87:C:C6	2.52	0.44
25:BA:2508:G:C4	25:BA:2509:G:C8	3.06	0.44
1:CA:665:A:H2'	1:CA:725:G:H22	1.83	0.44
6:AD:122:ARG:C	6:AD:122:ARG:HD3	2.37	0.44
24:CX:180:VAL:HG13	24:CX:195:SER:HB2	1.99	0.44
1:CA:321:A:H2'	1:CA:322:C:C6	2.52	0.44
1:AA:160:A:H2'	1:AA:161:A:C8	2.51	0.44
26:DB:89(A):G:C6	26:DB:89(B):A:C6	3.06	0.44
22:AT:43:LEU:HD23	22:AT:46:GLU:OE2	2.18	0.44
25:BA:2748:A:C6	25:BA:2757:A:N7	2.86	0.44
25:BA:2121:G:H2'	25:BA:2122:U:C6	2.51	0.44
1:CA:367:U:O2'	1:CA:368:U:H4'	2.17	0.44
36:BP:81:GLN:HG2	36:BP:106:LEU:HD22	2.00	0.44
21:CS:11:VAL:HG22	21:CS:12:ASP:H	1.83	0.44
24:AX:264:LYS:O	24:AX:268:ILE:HD13	2.16	0.44
24:AX:35:SER:HA	24:AX:38:TYR:HB2	2.00	0.44
38:DR:57:ARG:HG2	38:DR:58:GLY:H	1.82	0.44
25:DA:1381:G:C6	25:DA:1382:G:C6	3.06	0.44
1:AA:1349:A:H2'	1:AA:1350:A:O4'	2.18	0.44
25:DA:950:G:C2	25:DA:968:G:C2	3.05	0.44
43:BW:65:LEU:HB2	43:BW:68:ARG:HG2	2.00	0.44
44:BX:35:THR:O	44:BX:38:GLU:HG2	2.18	0.44
6:CD:173:TRP:CE2	6:CD:189:PRO:HB3	2.52	0.44
13:CK:29:ILE:C	13:CK:29:ILE:HD12	2.37	0.44
25:BA:2392:A:H2	25:BA:2424:C:H42	1.65	0.44
36:BP:23:PRO:O	36:BP:33:ARG:HA	2.18	0.44
25:DA:2577:A:H2'	25:DA:2614:A:N6	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2029:G:C4	25:BA:2031:A:OP2	2.70	0.44
21:CS:25:LYS:HB3	21:CS:27:GLU:OE1	2.17	0.44
25:DA:250:G:H2'	25:DA:251:A:C8	2.53	0.44
27:BD:31:LYS:O	27:BD:36:PRO:HD3	2.17	0.44
27:DD:86:PRO:HG3	25:DA:1567:A:H3'	1.98	0.44
39:DS:87:PHE:CE2	39:DS:89:ARG:HA	2.53	0.44
36:BP:52:GLU:HA	36:BP:52:GLU:OE1	2.18	0.44
1:CA:734:G:O2'	20:CR:71:LYS:HD3	2.17	0.44
24:AX:196:THR:HG21	24:AX:297:GLU:HB2	1.99	0.44
15:AM:98:VAL:C	15:AM:99:ARG:HD2	2.37	0.44
6:CD:125:HIS:HA	6:CD:152:SER:OG	2.17	0.44
32:BI:6:LEU:N	32:BI:6:LEU:HD23	2.32	0.44
47:D0:32:ARG:HB3	47:D0:33:ALA:H	1.53	0.44
1:AA:1321:C:H3'	1:AA:1322:C:H5''	2.00	0.44
29:DF:157:VAL:HB	29:DF:194:MET:CB	2.47	0.44
29:BF:157:VAL:HB	29:BF:194:MET:HB3	2.00	0.44
25:DA:2517:C:C2	25:DA:2542:A:N1	2.85	0.44
24:CX:330:GLY:C	24:CX:332:LEU:HD23	2.38	0.44
1:CA:501:C:H1'	1:CA:549:C:H1'	2.00	0.44
1:CA:453:A:H2'	1:CA:454:C:C6	2.53	0.44
26:DB:40:U:H3'	26:DB:41:U:H5''	2.00	0.44
25:DA:412:A:H2'	25:DA:412:A:N3	2.33	0.44
25:DA:2206:C:N3	25:DA:2219:G:C2	2.86	0.44
33:BJ:15:GLU:HB2	33:BJ:66:LEU:HG	1.99	0.44
1:CA:1055:A:C5	1:CA:1206:G:C6	3.06	0.44
28:DE:131:ALA:H	25:DA:2580:U:H5'	1.81	0.44
30:BG:161:THR:HG22	30:BG:163:ALA:H	1.82	0.44
25:BA:375:C:H2'	25:BA:376:C:C6	2.52	0.44
4:AB:153:ARG:H	4:AB:153:ARG:HG3	1.56	0.44
4:AB:27:LYS:H	4:AB:27:LYS:HD3	1.83	0.44
25:BA:1570:A:H2'	25:BA:1571:A:C8	2.52	0.44
25:DA:1945:G:C6	25:DA:1946:U:C4	3.06	0.44
19:CQ:54:GLY:HA3	19:CQ:82:MET:CE	2.46	0.44
24:CX:303:ARG:HB3	24:CX:314:ASP:HA	1.98	0.44
30:DG:138:GLN:NE2	30:DG:153:ARG:HG2	2.31	0.44
15:CM:84:ILE:HG23	15:CM:85:GLY:N	2.32	0.44
28:DE:183:LEU:HD21	40:DT:11:GLU:HG2	1.99	0.44
43:DW:88:ARG:H	25:DA:1614:A:N6	2.15	0.44
43:BW:65:LEU:HD23	43:BW:65:LEU:HA	1.85	0.44
25:DA:2077:A:C5	25:DA:2435:A:C5	3.05	0.44
53:B6:40:CYS:HA	53:B6:41:PRO:HD3	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1054:A:H2'	25:DA:1055:G:C8	2.53	0.44
47:B0:29:GLN:O	47:B0:66:VAL:HA	2.17	0.44
6:AD:144:ASP:O	6:AD:184:LYS:HA	2.18	0.44
37:DQ:42:ILE:HD13	37:DQ:97:VAL:HB	1.99	0.44
30:DG:104:GLU:O	30:DG:108:ASN:HB2	2.18	0.44
24:CX:133:ARG:O	24:CX:136:GLU:HB2	2.17	0.44
28:BE:11:MET:CB	28:BE:24:THR:HA	2.48	0.44
25:DA:1268:A:C2	25:DA:2013:A:C4	3.06	0.44
1:AA:1226:C:H2'	15:AM:103:THR:HB	1.99	0.44
25:BA:950:G:C2	25:BA:968:G:C2	3.06	0.44
25:BA:1218:C:O2'	25:BA:1219:G:H5'	2.16	0.44
39:BS:85:VAL:HG11	39:BS:106:ARG:HG2	2.00	0.44
24:CX:19:LEU:HD23	24:CX:19:LEU:O	2.17	0.44
25:BA:535:C:O5'	25:BA:535:C:H6	2.00	0.44
25:BA:1919:A:O5'	25:BA:1919:A:H8	2.00	0.44
45:DY:63:LYS:HE3	45:DY:63:LYS:HB2	1.80	0.44
25:DA:1769:G:C6	25:DA:1984:G:C6	3.06	0.44
4:CB:124:SER:C	4:CB:126:GLU:H	2.21	0.44
44:BX:26:TYR:CD1	44:BX:89:ILE:HG12	2.53	0.44
29:DF:89:VAL:HG11	25:DA:586:A:C5'	2.35	0.44
18:AP:14:ASN:N	18:AP:15:PRO:HD3	2.32	0.44
10:AH:51:VAL:HG21	10:AH:60:ARG:CG	2.47	0.44
46:BZ:41:LEU:O	46:BZ:45:ASP:HB2	2.17	0.44
25:DA:1418:G:H22	25:DA:1579:A:H5'	1.81	0.44
7:CE:76:ILE:O	7:CE:93:PRO:HB3	2.17	0.44
36:DP:62:LEU:HD12	25:DA:2393:A:H5''	2.00	0.44
25:DA:2029:G:C4	25:DA:2031:A:OP2	2.71	0.44
1:CA:1112:C:H42	5:CC:177:THR:HA	1.83	0.44
25:DA:1668:A:C4	25:DA:1674:G:N7	2.86	0.44
36:DP:85:LEU:HA	36:DP:88:LEU:HB3	2.00	0.44
1:AA:1504:G:HO2'	1:AA:1505:G:P	2.41	0.44
4:AB:178:ARG:HH21	10:AH:74:PRO:HG3	1.82	0.44
55:D8:33:ASN:HD22	55:D8:34:TRP:H	1.65	0.44
24:AX:13:ARG:HD2	24:AX:13:ARG:N	2.28	0.44
1:CA:735:C:H2'	1:CA:736:C:H6	1.83	0.44
1:CA:976:G:H22	1:CA:136(B):C:H5''	1.82	0.44
1:CA:688:G:N2	1:CA:699:C:O2	2.50	0.44
53:D6:11:LEU:HB2	53:D6:26:ASN:H	1.81	0.44
35:BO:8:LEU:N	35:BO:8:LEU:HD22	2.33	0.44
30:BG:16:ARG:HB3	30:BG:17:PRO:CD	2.47	0.44
21:AS:78:ARG:HB2	21:AS:81:ARG:HG3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DN:69:VAL:O	34:DN:70:ALA:HB3	2.18	0.44
49:D2:48:HIS:HD2	49:D2:52:ASP:OD2	2.01	0.44
25:BA:831:G:H2'	25:BA:832:G:O4'	2.17	0.44
29:DF:12:LEU:HB2	29:DF:124:LEU:HD11	1.99	0.44
25:BA:114(B):A:C4	25:BA:1144:G:N7	2.85	0.44
46:DZ:29:TYR:HB2	46:DZ:33:LEU:O	2.18	0.44
9:AG:38:LEU:HG	9:AG:42:ILE:HD11	2.00	0.44
1:CA:1203:C:OP1	16:CN:3:ARG:HD3	2.18	0.44
1:CA:500:G:H2'	1:CA:501:C:C6	2.53	0.44
25:BA:954:G:H5''	37:BQ:13:GLN:HG3	1.98	0.44
41:DU:14:HIS:CE1	41:DU:32:PHE:CD2	3.06	0.44
17:CO:40:SER:O	17:CO:44:LYS:HD2	2.17	0.44
25:DA:1973:G:H2'	25:DA:1974:C:C6	2.53	0.44
25:BA:603:A:N6	25:BA:655:A:H2'	2.33	0.44
1:CA:358:U:H6	1:CA:358:U:C5'	2.31	0.44
25:DA:278:A:N6	25:DA:362:U:H3	2.15	0.44
25:BA:312:G:H5'	25:BA:331:A:H2'	1.99	0.44
1:AA:555:C:H2'	1:AA:556:C:C6	2.53	0.44
1:AA:353:A:C8	1:AA:353:A:H5'	2.51	0.44
1:AA:1015:A:H8	1:AA:1015:A:O5'	2.01	0.44
25:BA:1569:A:H2'	25:BA:1570:A:O4'	2.17	0.44
25:DA:270(L):C:O2'	25:DA:270(M):U:H5''	2.18	0.44
10:CH:75:ARG:HA	10:CH:76:PRO:HD2	1.81	0.44
25:BA:589:C:H2'	25:BA:590:A:H8	1.83	0.44
1:CA:1020:U:H2'	1:CA:1021:G:H8	1.83	0.44
25:DA:2307:G:N2	25:DA:2312:U:C4	2.86	0.44
25:BA:2529:G:O5'	25:BA:2529:G:C8	2.71	0.44
30:BG:109:VAL:C	30:BG:112:PRO:HD2	2.38	0.44
39:DS:85:VAL:HG11	39:DS:106:ARG:HG2	2.00	0.44
9:CG:26:PHE:O	9:CG:30:ILE:HG12	2.17	0.44
1:CA:1241:G:H2'	1:CA:1242:C:C6	2.52	0.44
24:CX:100:ASP:HA	24:CX:101:PRO:HD2	1.89	0.44
4:CB:7:VAL:O	4:CB:11:LEU:HG	2.18	0.44
25:DA:1615:C:C5	25:DA:1617:C:C4	3.06	0.44
1:CA:32:A:H2'	1:CA:33:A:C8	2.53	0.44
30:DG:49:ASP:HB3	30:DG:52:ILE:HG12	2.00	0.44
1:CA:918:A:H2'	1:CA:919:A:O4'	2.17	0.44
25:BA:1107:G:H2'	25:BA:1108:U:O4'	2.18	0.44
24:AX:179:ARG:HD3	24:AX:304:THR:OG1	2.16	0.44
1:CA:655:A:H2'	1:CA:656:C:O4'	2.18	0.44
25:DA:1095:A:H2'	25:DA:1096:A:C8	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1098:A:H2'	25:DA:1099:G:H8	1.82	0.44
24:CX:173:TYR:HB3	24:CX:339:LEU:HD22	1.99	0.44
45:BY:63:LYS:HE3	45:BY:63:LYS:HB2	1.79	0.44
25:BA:2058:A:O5'	25:BA:2058:A:H8	2.01	0.44
31:DH:84:SER:HA	31:DH:133:VAL:O	2.18	0.44
25:DA:119:A:H4'	25:DA:120:U:H5'	1.98	0.44
51:B4:53:THR:O	51:B4:57:ILE:HD11	2.18	0.44
25:BA:1826:G:H2'	25:BA:1827:C:C6	2.53	0.44
25:DA:675:A:H8	25:DA:675:A:H5''	1.82	0.44
2:CY:56:C:O2'	30:DG:78:SER:HB3	2.17	0.44
1:AA:1220:G:H2'	1:AA:1221:G:C8	2.51	0.44
25:BA:672:C:C2	25:BA:809:G:N2	2.86	0.44
24:CX:223:ARG:NH1	24:CX:223:ARG:HG3	2.32	0.44
31:DH:117:PRO:HA	31:DH:118:PRO:HD2	1.88	0.44
1:AA:1253:G:H1	1:AA:1284:C:H42	1.64	0.44
1:CA:1371:G:O3'	11:CI:69:GLY:HA3	2.18	0.44
31:BH:102:ALA:HB2	31:BH:117:PRO:HD3	2.00	0.44
1:CA:1227:A:OP2	15:CM:111:LYS:HE3	2.18	0.44
9:CG:127:ALA:HA	9:CG:135:VAL:HG21	1.99	0.44
5:AC:14:ILE:HG23	5:AC:15:THR:N	2.30	0.44
25:BA:692:C:C2	25:BA:771:G:C2	3.05	0.44
1:CA:1224:G:H4'	15:CM:102:ARG:NH2	2.31	0.44
25:BA:1658:C:OP1	28:BE:135:HIS:CD2	2.70	0.44
24:CX:81:LEU:HG	24:CX:85:LYS:HD2	1.98	0.44
25:BA:2287:A:C6	25:BA:2289:G:C4	3.06	0.44
53:D6:13:CYS:SG	53:D6:24:GLU:HG3	2.58	0.44
25:DA:2334:G:H4'	25:DA:2335:A:OP2	2.17	0.44
6:CD:100:ARG:O	6:CD:103:ASN:HB3	2.18	0.44
6:AD:105:VAL:HG21	6:AD:121:VAL:HG22	1.98	0.44
30:BG:6:ALA:O	30:BG:10:LYS:HG3	2.17	0.44
25:DA:1980:G:C6	25:DA:1982:C:N4	2.86	0.44
32:DI:113:ARG:HB2	32:DI:130:TYR:CE1	2.53	0.44
9:CG:38:LEU:HG	9:CG:42:ILE:HD11	1.99	0.44
25:BA:2712:U:H1'	25:BA:712(B):A:H8	1.79	0.44
54:B7:34:ARG:HD2	54:B7:39:ARG:HG3	2.00	0.44
1:CA:778:G:H2'	1:CA:779:C:C6	2.52	0.44
34:BN:57:LEU:HD11	34:BN:142:ARG:HB2	1.99	0.44
53:D6:18:ARG:HH21	53:D6:44:ARG:HH11	1.66	0.44
1:AA:464:G:H8	1:AA:464:G:O5'	2.00	0.44
28:DE:116:VAL:HG13	28:DE:117:MET:H	1.83	0.44
7:CE:25:ARG:N	7:CE:25:ARG:HD2	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DU:79:PHE:C	41:DU:79:PHE:CD1	2.90	0.44
21:CS:10:PHE:CD1	21:CS:10:PHE:N	2.86	0.44
25:DA:590:A:C4	25:DA:668:G:N2	2.85	0.44
1:AA:1020:U:H2'	1:AA:1021:G:H8	1.83	0.44
1:CA:216:G:C2	1:CA:217:C:C4	3.05	0.44
28:DE:144:ARG:HB2	25:DA:2572:A:P	2.58	0.44
1:AA:186(B):C:O2'	22:AT:89:ARG:HD2	2.18	0.44
24:AX:180:VAL:CG1	24:AX:195:SER:HB2	2.48	0.44
1:AA:44:G:N2	1:AA:45:U:H1'	2.32	0.44
25:BA:1461:G:H2'	25:BA:1462:C:H6	1.83	0.44
15:CM:83:ASP:OD2	15:CM:84:ILE:HG22	2.18	0.44
47:D0:66:VAL:O	47:D0:81:VAL:HA	2.18	0.44
25:BA:923:C:H2'	25:BA:924:C:C6	2.52	0.44
25:DA:854:G:C2	25:DA:855:G:C5	3.05	0.44
13:AK:94:ALA:O	13:AK:98:LEU:HG	2.17	0.44
1:AA:734:G:O2'	20:AR:71:LYS:HD3	2.18	0.44
1:CA:171:A:H2'	1:CA:172:A:C8	2.53	0.44
25:BA:649:G:H2'	25:BA:650:C:O4'	2.18	0.44
1:CA:814:A:N7	1:CA:816:A:C5	2.86	0.44
1:CA:468:A:P	18:CP:75:ARG:HH12	2.41	0.44
5:AC:76:VAL:HG21	5:AC:103:VAL:HG11	2.00	0.44
1:AA:875:C:H1'	10:AH:15:ASN:OD1	2.17	0.44
1:CA:1397:C:H41	3:CV:22:A:H5''	1.81	0.44
14:AL:108:GLY:HA3	14:AL:120:GLY:O	2.17	0.44
25:BA:310:A:O2'	25:BA:311:A:H2'	2.17	0.44
15:AM:70:LEU:C	15:AM:70:LEU:HD23	2.38	0.44
14:CL:108:GLY:HA3	14:CL:120:GLY:O	2.18	0.44
25:DA:1853:A:H2'	25:DA:1854:A:C8	2.53	0.44
27:DD:187:GLY:C	27:DD:189:CYS:H	2.21	0.44
1:AA:1425:U:H2'	1:AA:1426:C:H6	1.83	0.44
24:AX:67:ASP:HA	24:AX:68:PRO:HD2	1.87	0.44
2:AY:53:G:O2'	2:AY:54:U:H5'	2.17	0.44
27:BD:129:ASN:H	27:BD:193:VAL:HG12	1.83	0.44
25:BA:430:G:H5''	25:BA:431:U:OP2	2.18	0.44
44:DX:35:THR:O	44:DX:38:GLU:HG2	2.18	0.44
25:BA:1792:G:H8	25:BA:1792:G:O5'	2.01	0.44
25:DA:996:A:H2'	25:DA:997:G:C8	2.51	0.44
13:CK:29:ILE:HG22	13:CK:44:SER:CB	2.48	0.44
6:AD:173:TRP:CE2	6:AD:189:PRO:HB3	2.53	0.44
25:BA:82:G:O2'	25:BA:83:G:H5'	2.17	0.44
36:DP:59:LEU:HA	36:DP:61:ARG:CZ	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1999:C:H5''	25:BA:2723:C:O2'	2.17	0.44
31:DH:162:ILE:N	31:DH:162:ILE:HD13	2.29	0.44
25:BA:1408:C:C2	25:BA:1595:G:N2	2.86	0.44
15:AM:2:ALA:C	15:AM:9:ILE:HG23	2.38	0.44
30:BG:66:GLN:CG	30:BG:67:LYS:H	2.25	0.44
25:BA:1025:G:C8	25:BA:1025:G:H5''	2.53	0.44
1:AA:1227:A:H2	1:AA:1228:C:C2	2.36	0.44
34:DN:40:ASP:CG	34:DN:41:ALA:N	2.71	0.44
40:DT:48:ILE:HG22	40:DT:49:VAL:N	2.33	0.44
25:DA:2591:C:H2'	25:DA:2592:G:H8	1.82	0.44
1:CA:1112:C:C4	5:CC:178:LEU:HD23	2.53	0.44
25:BA:222:A:N6	25:BA:224:G:C2	2.86	0.44
1:AA:1077:G:N1	1:AA:1081:G:C6	2.86	0.44
4:AB:178:ARG:HD2	10:AH:71:GLY:C	2.38	0.44
12:CJ:54:PHE:HB3	12:CJ:55:LYS:H	1.61	0.44
6:AD:125:HIS:HA	6:AD:152:SER:OG	2.17	0.44
52:B5:16:ARG:O	52:B5:19:ARG:HB3	2.18	0.44
9:CG:71:PRO:HD3	9:CG:103:TRP:HZ3	1.83	0.44
4:CB:29:ALA:O	4:CB:32:ILE:HG22	2.17	0.44
39:DS:13:ARG:NH2	25:DA:2335:A:H8	2.16	0.44
5:AC:8:ILE:CD1	5:AC:16:ARG:HH21	2.31	0.44
43:BW:8:ARG:HA	43:BW:102:HIS:CD2	2.48	0.44
25:BA:1817:G:H3'	27:BD:157:ARG:HH21	1.80	0.44
25:BA:1817:G:OP1	27:BD:88:ARG:NH2	2.50	0.44
25:BA:640:C:H6	25:BA:640:C:O5'	2.00	0.44
34:DN:66:THR:HA	34:DN:67:PRO:HD2	1.86	0.44
25:DA:640:C:H6	25:DA:640:C:O5'	2.00	0.44
46:BZ:5:LEU:HD21	46:BZ:39:VAL:HB	1.99	0.44
29:BF:24:LEU:HD12	29:BF:24:LEU:N	2.31	0.44
25:BA:2406:U:C4	36:BP:72:PRO:HB2	2.52	0.44
1:AA:501:C:H2'	1:AA:502:G:C8	2.53	0.44
29:DF:192:LEU:HD23	29:DF:193:VAL:N	2.33	0.44
25:BA:634:C:H2'	25:BA:635:C:H6	1.80	0.44
16:CN:3:ARG:O	16:CN:7:ILE:HG23	2.17	0.44
12:AJ:80:LYS:O	12:AJ:84:GLN:HB2	2.17	0.44
1:AA:453:A:H2'	1:AA:454:C:C6	2.52	0.44
5:AC:19:GLU:HG3	5:AC:54:ARG:CD	2.48	0.44
29:DF:176:LEU:HD11	29:DF:180:GLY:HA3	2.00	0.44
26:BB:40:U:H3'	26:BB:41:U:H5''	2.00	0.44
47:B0:37:LEU:H	47:B0:60:PHE:HA	1.83	0.44
27:DD:117:VAL:HG22	27:DD:118:VAL:N	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CX:234:THR:HG23	24:CX:235:THR:N	2.32	0.44
25:DA:2020:A:C5	25:DA:2022:U:C5	3.06	0.44
8:CF:61:LEU:HD12	8:CF:61:LEU:N	2.32	0.44
28:DE:5:LEU:HD22	28:DE:197:ILE:HG22	2.00	0.44
26:DB:16:G:C6	26:DB:69:G:C2	3.06	0.44
1:CA:278:G:O4'	1:CA:282:A:H1'	2.18	0.44
25:DA:1919:A:O5'	25:DA:1919:A:H8	2.00	0.44
25:BA:1453:A:H62	25:BA:2703:C:H41	1.66	0.44
26:BB:18:G:H2'	26:BB:19:G:C8	2.53	0.44
25:DA:66:C:H2'	25:DA:67:U:O4'	2.18	0.44
15:AM:83:ASP:OD2	15:AM:84:ILE:HG22	2.17	0.44
2:AY:75:C:OP1	25:BA:2602:A:OP1	2.36	0.44
25:BA:854:G:C2	25:BA:855:G:C5	3.06	0.44
1:CA:1349:A:H2'	1:CA:1350:A:O4'	2.17	0.44
1:CA:953:G:C6	1:CA:954:G:C5	3.05	0.44
25:DA:827:U:O2	25:DA:2246:G:H4'	2.18	0.44
39:BS:49:VAL:HG13	39:BS:76:LYS:HD2	2.00	0.44
25:DA:564:C:H2'	25:DA:565:C:H6	1.81	0.44
25:DA:111:A:H2'	25:DA:112:U:O4'	2.18	0.44
31:BH:22:GLY:C	31:BH:23:ARG:HD3	2.38	0.44
25:BA:2737:G:H2'	25:BA:2738:A:C8	2.52	0.44
28:DE:119:ARG:HG2	28:DE:160:TYR:CG	2.53	0.44
1:AA:1371:G:O3'	11:AI:69:GLY:HA3	2.18	0.44
25:DA:274:G:C6	25:DA:275:G:N2	2.86	0.44
45:BY:2:ARG:HG2	45:BY:3:VAL:N	2.33	0.44
25:DA:1418:G:O5'	25:DA:1418:G:H8	1.99	0.44
7:AE:76:ILE:O	7:AE:93:PRO:HB3	2.18	0.44
18:CP:28:ARG:CG	18:CP:28:ARG:NH1	2.78	0.44
25:BA:1651:G:N2	25:BA:2007:C:C2	2.86	0.44
25:DA:195:A:N7	25:DA:197:A:OP1	2.51	0.44
55:D8:58:ILE:C	55:D8:60:LEU:H	2.21	0.44
18:CP:4:ILE:HG13	18:CP:21:VAL:CG1	2.44	0.44
27:BD:85:ASP:OD1	27:BD:87:ASN:HB2	2.18	0.44
32:DI:66:GLU:HB3	32:DI:67:ARG:NH1	2.33	0.44
42:DV:25:LEU:HD23	42:DV:26:ASP:N	2.29	0.44
25:BA:2646:C:H2'	25:BA:2647:U:O4'	2.17	0.44
1:CA:1493:A:C6	25:DA:1913:A:C5	3.06	0.44
29:BF:117:ARG:NH2	29:BF:187:VAL:HA	2.32	0.44
53:B6:18:ARG:HH21	53:B6:44:ARG:HH11	1.66	0.44
1:AA:1320:C:N4	21:AS:36:ARG:HG3	2.32	0.44
25:DA:597:U:H2'	25:DA:598:G:C8	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:DD:183:ARG:HA	27:DD:270:ILE:HA	1.99	0.44
29:DF:118:ALA:HB2	29:DF:123:LEU:HD22	2.00	0.44
29:DF:157:VAL:HB	29:DF:194:MET:HB3	2.00	0.44
28:DE:156:MET:CE	25:DA:2050:C:H1'	2.48	0.44
1:AA:778:G:H2'	1:AA:779:C:C6	2.53	0.44
46:DZ:14:LYS:HB2	46:DZ:17:ALA:HB3	1.99	0.44
47:B0:21:LEU:HD12	47:B0:21:LEU:N	2.33	0.44
27:BD:117:VAL:HG22	27:BD:118:VAL:N	2.33	0.44
24:AX:323:ASP:O	24:AX:326:GLY:N	2.51	0.44
38:DR:3:HIS:NE2	25:DA:1654:A:OP2	2.51	0.44
1:CA:1095:U:H2'	1:CA:1096:C:H6	1.83	0.44
25:DA:1090:U:H2'	25:DA:1091:G:H8	1.83	0.44
25:DA:666:G:C5	25:DA:667:U:C4	3.06	0.44
25:BA:2623:G:H2'	25:BA:2624:G:C8	2.53	0.44
25:BA:804:A:H5'	25:BA:805:G:OP1	2.18	0.44
38:BR:54:LEU:HD11	38:BR:65:LEU:HD23	1.98	0.44
1:AA:216:G:C2	1:AA:217:C:C4	3.06	0.44
17:CO:25:THR:O	17:CO:29:VAL:HG23	2.18	0.44
24:AX:9:GLU:O	24:AX:12:TYR:HB2	2.17	0.44
31:BH:154:PRO:HA	31:BH:160:LYS:O	2.18	0.44
47:D0:16:SER:HB3	25:DA:2261:C:C6	2.53	0.44
1:CA:585:G:H4'	14:CL:7:ASN:HD21	1.82	0.44
1:CA:160:A:H2'	1:CA:161:A:C8	2.53	0.44
25:BA:1911:U:C2	25:BA:1918:A:C2	3.06	0.44
24:CX:109:VAL:HB	24:CX:160:PHE:HB3	2.00	0.44
46:DZ:157:LEU:HA	46:DZ:158:PRO:HD2	1.88	0.44
1:AA:913:A:H4'	1:AA:914:A:O5'	2.17	0.44
2:AZ:24:U:H2'	2:AZ:25:C:C6	2.53	0.44
13:CK:102:GLY:C	13:CK:103:LEU:HD22	2.38	0.44
25:BA:2101:G:H2'	25:BA:2102:U:O4'	2.18	0.44
25:BA:738:G:H2'	25:BA:739:G:C8	2.53	0.44
25:DA:2376:A:H2'	25:DA:2377:A:O4'	2.16	0.44
1:CA:298:A:C6	1:CA:299:G:N1	2.86	0.44
25:BA:1216:G:N1	25:BA:1234:U:C2	2.86	0.44
25:BA:958:U:O2	26:BB:89(B):A:H4'	2.18	0.44
27:BD:43:ARG:HB2	27:BD:48:ARG:O	2.17	0.44
25:BA:2578:G:OP2	25:BA:2578:G:H4'	2.18	0.44
1:AA:1225:A:H2'	1:AA:1225:A:N3	2.31	0.44
19:AQ:14:LYS:HD2	19:AQ:14:LYS:N	2.33	0.44
20:AR:32:ARG:HA	20:AR:69:THR:HG21	1.99	0.44
25:DA:1792:G:O5'	25:DA:1792:G:H8	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:996:A:H2'	25:BA:997:G:C8	2.52	0.43
11:AI:118:LYS:C	11:AI:120:ARG:H	2.21	0.43
48:D1:45:ASN:C	48:D1:45:ASN:ND2	2.70	0.43
13:AK:29:ILE:HG22	13:AK:44:SER:CB	2.48	0.43
25:BA:1246:A:OP1	36:BP:18:ARG:HD3	2.18	0.43
25:BA:671:C:H5	36:BP:42:SER:HA	1.82	0.43
36:DP:42:SER:HA	25:DA:671:C:H5	1.83	0.43
25:DA:1651:G:N2	25:DA:2007:C:C2	2.86	0.43
36:DP:46:LYS:HA	36:DP:46:LYS:HD2	1.79	0.43
31:DH:35:VAL:HA	31:DH:36:PRO:HD2	1.77	0.43
4:CB:166:ASP:HA	4:CB:167:PRO:HD2	1.83	0.43
27:DD:21:PHE:HE1	25:DA:1565:C:O5'	2.01	0.43
41:BU:61:TRP:O	41:BU:65:ILE:HG13	2.18	0.43
25:DA:2697:G:H2'	25:DA:2698:U:O4'	2.17	0.43
25:DA:1657:C:H2'	25:DA:1658:C:H6	1.82	0.43
28:DE:135:HIS:NE2	25:DA:1658:C:OP1	2.51	0.43
9:CG:15:ASP:OD1	9:CG:18:TYR:HB2	2.18	0.43
9:CG:15:ASP:HB2	9:CG:20:ASP:O	2.18	0.43
7:AE:43:LEU:HB3	7:AE:136:MET:HG3	1.98	0.43
35:DO:8:LEU:O	35:DO:19:ILE:HD13	2.18	0.43
53:B6:38:LYS:HA	53:B6:48:VAL:HA	1.99	0.43
27:DD:142:VAL:HG12	27:DD:165:ILE:HD11	2.00	0.43
27:DD:142:VAL:HG23	27:DD:192:THR:O	2.18	0.43
49:D2:47:ASN:HB3	25:DA:95:G:H1'	1.98	0.43
25:DA:1173:G:H1'	25:DA:1177:A:N6	2.32	0.43
25:BA:533:G:C6	25:BA:534:U:C4	3.06	0.43
1:AA:501:C:H1'	1:AA:549:C:H1'	2.00	0.43
27:BD:183:ARG:HA	27:BD:270:ILE:HA	2.00	0.43
1:CA:1049:U:C5	16:CN:3:ARG:HB2	2.53	0.43
37:DQ:13:GLN:HG3	25:DA:954:G:H5''	1.99	0.43
1:AA:678:U:H2'	1:AA:679:C:H6	1.81	0.43
35:BO:103:ALA:H	35:BO:106:LEU:HD13	1.82	0.43
24:CX:323:ASP:O	24:CX:326:GLY:N	2.51	0.43
25:DA:2206:C:H2'	25:DA:2207:C:C6	2.49	0.43
25:BA:322:A:OP2	29:BF:169:ASN:HB2	2.18	0.43
33:DJ:15:GLU:HB2	33:DJ:66:LEU:HG	1.99	0.43
1:CA:464:G:H8	1:CA:464:G:O5'	2.00	0.43
25:DA:536:A:H2'	25:DA:537:C:H6	1.82	0.43
1:AA:790:A:H2'	1:AA:791:G:C8	2.53	0.43
41:DU:13:LYS:HG2	25:DA:1227:G:OP1	2.18	0.43
1:AA:278:G:O4'	1:AA:282:A:H1'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CY:46:G:H2'	2:CY:47:U:H5''	2.00	0.43
54:D7:27:GLY:O	54:D7:30:VAL:HB	2.18	0.43
25:DA:561:G:O2'	25:DA:562:U:H5'	2.18	0.43
29:DF:96:ASP:CG	29:DF:98:SER:H	2.21	0.43
38:BR:90:ARG:HH11	38:BR:117:VAL:HG13	1.82	0.43
25:BA:1517:G:H2'	25:BA:1518:C:C6	2.53	0.43
25:DA:958:U:O2	26:DB:89(B):A:H4'	2.18	0.43
21:CS:11:VAL:HG23	21:CS:38:SER:HB2	2.00	0.43
21:AS:51:VAL:O	21:AS:58:VAL:HG22	2.18	0.43
38:BR:57:ARG:HG2	38:BR:58:GLY:H	1.83	0.43
25:BA:572:A:H5''	25:BA:573:G:OP2	2.18	0.43
1:AA:862:C:O2'	1:AA:863:U:H5'	2.18	0.43
35:DO:73:ASP:OD1	35:DO:75:SER:HB3	2.18	0.43
45:DY:59:GLY:C	45:DY:61:ILE:H	2.21	0.43
14:CL:57:VAL:O	14:CL:59:LEU:HD22	2.18	0.43
30:DG:111:LEU:HB2	30:DG:112:PRO:HD3	1.99	0.43
1:AA:872:A:C5	1:AA:874:G:C8	3.06	0.43
25:DA:2058:A:O5'	25:DA:2058:A:H8	2.01	0.43
25:DA:2578:G:H4'	25:DA:2578:G:OP2	2.17	0.43
29:DF:95:ARG:HD2	29:DF:95:ARG:O	2.18	0.43
55:D8:52:LYS:N	55:D8:53:PRO:HD2	2.32	0.43
25:BA:26:G:H1'	25:BA:515:A:H61	1.82	0.43
46:DZ:141:VAL:HA	46:DZ:144:LEU:HD23	2.00	0.43
1:AA:814:A:N7	1:AA:816:A:C5	2.86	0.43
25:BA:1812:A:H2'	25:BA:1813:G:H8	1.82	0.43
25:DA:1841:U:H2'	25:DA:1842:G:C8	2.52	0.43
1:CA:1129:C:O2'	1:CA:1130:A:P	2.76	0.43
47:D0:23:VAL:HG21	25:DA:857:C:C4'	2.40	0.43
25:DA:857:C:H2'	25:DA:858:U:C6	2.52	0.43
37:DQ:43:THR:OG1	37:DQ:46:GLN:HG3	2.17	0.43
18:CP:12:LYS:O	18:CP:13:HIS:HB2	2.18	0.43
7:CE:6:PHE:HB2	7:CE:34:VAL:CG1	2.44	0.43
7:AE:6:PHE:HB2	7:AE:34:VAL:CG1	2.44	0.43
43:BW:84:ARG:HB2	43:BW:96:ILE:CG2	2.43	0.43
38:DR:55:ALA:HA	38:DR:80:PHE:CE1	2.52	0.43
25:DA:664:C:H2'	25:DA:665:C:H6	1.82	0.43
1:CA:1238:A:C8	1:CA:1303:C:H1'	2.52	0.43
1:CA:1250:A:C2	1:CA:1370:G:H1'	2.53	0.43
27:BD:30:GLU:HG3	27:BD:63:ARG:NH2	2.31	0.43
48:D1:73:LEU:HD23	48:D1:74:VAL:N	2.33	0.43
42:BV:25:LEU:HD23	42:BV:26:ASP:N	2.28	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:B8:58:ILE:C	55:B8:60:LEU:H	2.22	0.43
1:AA:1067:A:O5'	1:AA:1067:A:H8	2.02	0.43
43:DW:69:LEU:HD13	43:DW:107:LEU:HD23	1.99	0.43
48:B1:27:GLU:CB	48:B1:33:LYS:HA	2.48	0.43
6:AD:100:ARG:HG2	6:AD:102:ASP:OD1	2.16	0.43
36:DP:18:ARG:HD3	25:DA:1246:A:OP1	2.18	0.43
25:BA:652:U:H2'	25:BA:653:C:O4'	2.18	0.43
27:BD:142:VAL:HG12	27:BD:165:ILE:HD11	2.00	0.43
25:BA:2250:G:O4'	25:BA:2250:G:N3	2.51	0.43
37:BQ:81:VAL:HG12	37:BQ:82:ARG:N	2.33	0.43
36:DP:9:ASN:N	36:DP:10:PRO:CD	2.81	0.43
25:DA:1750:G:H2'	25:DA:1751:C:H6	1.84	0.43
46:BZ:29:TYR:HB2	46:BZ:33:LEU:O	2.17	0.43
47:D0:37:LEU:H	47:D0:60:PHE:HA	1.83	0.43
25:BA:2291:U:H2'	25:BA:2292:C:H6	1.83	0.43
25:DA:914:C:H2'	25:DA:915:C:H5'	2.00	0.43
25:BA:2561:A:H2'	25:BA:2562:U:O4'	2.17	0.43
25:BA:478:A:C6	25:BA:480:A:C6	3.06	0.43
25:BA:1422:G:H4'	25:BA:1493:C:OP1	2.18	0.43
1:AA:78:G:H2'	1:AA:79:G:C8	2.53	0.43
25:BA:2581:G:C6	25:BA:2610:C:N3	2.87	0.43
25:DA:1754:C:H2'	25:DA:1755:A:O4'	2.17	0.43
32:BI:81:VAL:HG12	32:BI:82:ARG:N	2.34	0.43
30:BG:121:ASN:HA	30:BG:122:PRO:HD2	1.86	0.43
1:CA:114:U:H2'	1:CA:115:G:C8	2.53	0.43
25:DA:390:A:H4'	25:DA:391:G:H5'	1.99	0.43
1:AA:1415:G:H2'	1:AA:1416:G:H8	1.82	0.43
1:AA:957:U:H4'	21:AS:79:THR:HB	1.99	0.43
25:BA:1326:U:H2'	25:BA:1327:C:H6	1.83	0.43
30:DG:11:TYR:HA	30:DG:15:VAL:HB	1.99	0.43
31:DH:42:ARG:O	31:DH:52:VAL:HA	2.18	0.43
31:DH:43:VAL:HA	31:DH:52:VAL:HG22	2.00	0.43
25:DA:356:G:H2'	25:DA:357:A:C8	2.53	0.43
50:D3:55:ARG:HD3	50:D3:55:ARG:HA	1.74	0.43
24:CX:317:ILE:H	24:CX:317:ILE:HD13	1.82	0.43
28:BE:14:ILE:HD12	28:BE:14:ILE:C	2.39	0.43
25:BA:2321:G:H2'	25:BA:2321:G:N3	2.33	0.43
15:AM:82:MET:HG3	25:BA:888:C:H5'	2.00	0.43
25:BA:1600:C:O2'	25:BA:1601:G:H5'	2.18	0.43
1:CA:886:G:C4	1:CA:887:G:C8	3.06	0.43
25:DA:1792:G:N2	25:DA:1827:C:O2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CK:42:TRP:HZ3	13:CK:47:VAL:HG22	1.83	0.43
46:DZ:24:LEU:HA	46:DZ:25:PRO:HD2	1.82	0.43
25:DA:2443:C:O2'	25:DA:2444:G:H5'	2.18	0.43
50:D3:8:LEU:CA	50:D3:54:VAL:HG12	2.37	0.43
25:DA:768:G:O2'	25:DA:1379:A:N6	2.48	0.43
24:CX:92:LEU:HG	24:CX:348:LEU:HD22	2.00	0.43
2:CY:56:C:C1'	30:DG:76:SER:HB3	2.48	0.43
25:BA:1997:G:H2'	25:BA:1998:G:H8	1.82	0.43
51:B4:37:PRO:HA	51:B4:50:THR:O	2.18	0.43
25:BA:1190:G:C5'	25:BA:1190:G:C8	3.00	0.43
25:BA:2010:G:C5	25:BA:2011:U:C5	3.07	0.43
38:BR:10:LEU:HD22	38:BR:17:ARG:CD	2.42	0.43
25:BA:1056:G:O2'	25:BA:1086:A:H1'	2.18	0.43
25:DA:1025:G:C8	25:DA:1025:G:H5''	2.53	0.43
35:DO:61:VAL:O	35:DO:84:ALA:HB1	2.18	0.43
1:AA:976:G:H22	1:AA:136(B):C:H5''	1.83	0.43
39:DS:15:ARG:NH2	26:DB:8:U:H5''	2.28	0.43
31:DH:137:ASP:OD1	31:DH:139:GLN:HB3	2.17	0.43
52:D5:16:ARG:O	52:D5:19:ARG:HB3	2.19	0.43
53:B6:11:LEU:HB3	53:B6:24:GLU:CB	2.48	0.43
25:BA:1059:G:H3'	25:BA:1060:U:H2'	2.00	0.43
30:DG:136:ARG:NH2	25:DA:2306:C:H4'	2.31	0.43
1:AA:1060:C:H5'	16:AN:45:ARG:HH22	1.83	0.43
30:BG:16:ARG:N	30:BG:17:PRO:HD2	2.33	0.43
1:CA:1498:U:H4'	1:CA:1499:A:O5'	2.18	0.43
1:CA:370:C:N3	1:CA:392:G:C2	2.87	0.43
41:BU:45:TYR:O	41:BU:49:HIS:CD2	2.71	0.43
5:CC:8:ILE:CD1	5:CC:16:ARG:HH21	2.31	0.43
25:BA:319:C:H2'	25:BA:320:A:O4'	2.18	0.43
25:BA:579:G:N2	25:BA:1262:A:C4	2.86	0.43
27:BD:117:VAL:HG23	27:BD:128:GLY:O	2.18	0.43
25:DA:1139:G:O2'	25:DA:1140:C:H5'	2.18	0.43
27:BD:161:THR:O	27:BD:196:VAL:HG23	2.18	0.43
27:DD:117:VAL:HG23	27:DD:128:GLY:O	2.18	0.43
10:AH:97:VAL:HG13	10:AH:98:LYS:H	1.83	0.43
24:AX:323:ASP:O	24:AX:324:LEU:C	2.57	0.43
10:AH:19:VAL:CG2	10:AH:21:LYS:HG2	2.48	0.43
25:BA:1654:A:OP2	38:BR:3:HIS:NE2	2.51	0.43
25:BA:2619:C:O2'	25:BA:2620:C:H5'	2.19	0.43
29:BF:127:GLU:HB2	29:BF:196:LEU:HD12	1.99	0.43
25:DA:1278:A:H2'	25:DA:1279:G:C8	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:536:A:H2'	25:BA:537:C:H6	1.81	0.43
4:AB:95:GLN:HB3	4:AB:148:TYR:HD1	1.84	0.43
1:CA:1013:G:H2'	1:CA:1015:A:OP2	2.19	0.43
4:CB:22:LYS:HA	4:CB:22:LYS:NZ	2.33	0.43
25:BA:590:A:C4	25:BA:668:G:N2	2.86	0.43
1:CA:192:U:H2'	1:CA:193:C:H6	1.82	0.43
25:DA:937:U:H2'	25:DA:938:G:O4'	2.17	0.43
25:BA:223:A:N7	25:BA:422:A:H1'	2.33	0.43
26:BB:89(A):G:C6	26:BB:89(B):A:C6	3.06	0.43
25:DA:88:G:H5'	25:DA:89:G:OP2	2.19	0.43
10:AH:23:SER:HB3	10:AH:62:TYR:HA	1.99	0.43
14:AL:27:LYS:C	14:AL:29:ALA:N	2.71	0.43
1:AA:655:A:H2'	1:AA:656:C:O4'	2.17	0.43
25:DA:2181:G:C2	25:DA:2182:G:C8	3.07	0.43
1:AA:112:G:H5'	1:AA:389:A:H4'	1.99	0.43
24:CX:118:GLU:O	24:CX:121:ALA:HB3	2.19	0.43
25:DA:430:G:H5''	25:DA:431:U:OP2	2.18	0.43
35:BO:96:THR:O	35:BO:97:ARG:C	2.56	0.43
25:DA:2748:A:C6	25:DA:2757:A:N7	2.87	0.43
25:DA:26:G:H1'	25:DA:515:A:H61	1.82	0.43
26:BB:104:A:H4'	46:BZ:89:PHE:CE2	2.54	0.43
25:BA:301:G:H5'	25:BA:334:C:O2'	2.18	0.43
1:CA:581:G:O5'	1:CA:581:G:H8	2.01	0.43
28:DE:14:ILE:HD12	28:DE:14:ILE:C	2.39	0.43
1:CA:416:G:O5'	1:CA:416:G:H8	2.01	0.43
19:CQ:14:LYS:N	19:CQ:14:LYS:HD2	2.33	0.43
6:CD:119:GLN:HA	6:CD:119:GLN:HE21	1.81	0.43
25:BA:1615:C:C5	25:BA:1617:C:C4	3.06	0.43
41:BU:92:ARG:CZ	42:BV:11:GLN:HG3	2.49	0.43
48:D1:11:ARG:CB	48:D1:12:PRO:HD2	2.35	0.43
4:CB:84:GLU:HB3	4:CB:219:VAL:CG2	2.39	0.43
25:DA:140:A:N6	25:DA:141(A):A:N6	2.66	0.43
25:BA:2393:A:H5''	36:BP:62:LEU:HD12	2.00	0.43
18:CP:14:ASN:N	18:CP:15:PRO:HD3	2.33	0.43
22:CT:26:ASN:HB2	22:CT:71:THR:HG23	2.01	0.43
38:BR:55:ALA:HA	38:BR:80:PHE:CE1	2.52	0.43
34:BN:126:VAL:HG12	34:BN:130:LEU:CD1	2.43	0.43
8:AF:35:ALA:HA	8:AF:67:MET:HB3	2.00	0.43
1:CA:685:G:O2'	1:CA:686:U:H5'	2.18	0.43
25:DA:1021:A:C8	25:DA:1021:A:H3'	2.53	0.43
39:DS:26:LEU:C	39:DS:88:ASP:HB3	2.38	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1103:C:H2'	1:AA:1104:G:C8	2.54	0.43
1:AA:505:G:C6	1:AA:535:A:C2	3.06	0.43
25:DA:2287:A:C6	25:DA:2289:G:C4	3.07	0.43
1:CA:1065:U:O2'	1:CA:1066:C:OP2	2.33	0.43
36:DP:69:GLY:O	36:DP:70:GLN:HB2	2.18	0.43
1:AA:194:C:C2'	1:AA:195:A:H5''	2.47	0.43
34:BN:134:PRO:HA	34:BN:137:ARG:NE	2.33	0.43
6:CD:134:ASP:O	6:CD:136:PRO:HD3	2.19	0.43
25:BA:626:U:N3	36:BP:105:LEU:HB3	2.32	0.43
29:DF:24:LEU:N	29:DF:24:LEU:HD12	2.31	0.43
29:DF:22:ALA:HB1	29:DF:24:LEU:HD13	2.00	0.43
25:DA:652:U:H2'	25:DA:653:C:O4'	2.18	0.43
46:BZ:28:MET:HA	46:BZ:88:PHE:HB2	2.01	0.43
21:CS:78:ARG:HB2	21:CS:81:ARG:HG3	2.00	0.43
49:D2:61:LEU:HD23	25:DA:72:U:H6	1.83	0.43
25:BA:1173:G:H1'	25:BA:1177:A:N6	2.33	0.43
14:CL:45:LYS:HE2	14:CL:45:LYS:HB3	1.69	0.43
25:BA:2469:A:H2	25:BA:2481:G:H21	1.66	0.43
25:BA:1750:G:H2'	25:BA:1751:C:H6	1.83	0.43
25:DA:2250:G:N3	25:DA:2250:G:O4'	2.51	0.43
28:DE:116:VAL:HG13	28:DE:117:MET:N	2.33	0.43
1:CA:790:A:H2'	1:CA:791:G:C8	2.53	0.43
4:CB:25:ASN:HB3	4:CB:27:LYS:HE2	2.00	0.43
30:DG:161:THR:HG22	30:DG:163:ALA:H	1.82	0.43
1:CA:277:C:OP1	19:CQ:41:LYS:HE3	2.17	0.43
54:B7:27:GLY:O	54:B7:30:VAL:HB	2.18	0.43
25:BA:2718:G:H2'	25:BA:2719:G:C8	2.54	0.43
1:CA:235:C:H2'	1:CA:236:G:C8	2.54	0.43
25:BA:2536:G:C5	25:BA:2537:U:C4	3.07	0.43
7:AE:64:ARG:HG3	7:AE:65:ASN:N	2.34	0.43
35:BO:71:ARG:NH1	40:BT:74:ARG:HH22	2.16	0.43
25:DA:950:G:C6	25:DA:968:G:N1	2.86	0.43
1:AA:367:U:O2'	1:AA:368:U:H4'	2.18	0.43
30:BG:104:GLU:O	30:BG:108:ASN:HB2	2.18	0.43
1:AA:105:G:C6	1:AA:106:C:C4	3.06	0.43
1:CA:723:U:H5''	1:CA:724:G:OP2	2.18	0.43
1:CA:384:G:H2'	1:CA:385:C:C6	2.53	0.43
25:BA:1120:G:C5	25:BA:1121:C:C4	3.06	0.43
7:CE:17:ALA:HB2	7:CE:26:PHE:CD2	2.53	0.43
27:DD:271:ILE:O	27:DD:272:ALA:HB3	2.17	0.43
25:BA:1824:G:OP1	27:BD:52:ARG:HD3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:16:MET:HE1	27:BD:208:LYS:HE2	1.99	0.43
45:BY:78:ALA:HB3	45:BY:81:LYS:HE3	1.99	0.43
37:DQ:43:THR:O	37:DQ:46:GLN:HB2	2.19	0.43
30:DG:50:ALA:O	30:DG:53:LEU:HB3	2.18	0.43
20:AR:40:LEU:HA	20:AR:43:PHE:HD1	1.83	0.43
49:D2:14:ARG:HH21	49:D2:67:LYS:HB3	1.83	0.43
25:BA:1405:U:H2'	25:BA:1406:U:H6	1.80	0.43
38:DR:17:ARG:HG3	38:DR:18:LEU:N	2.32	0.43
25:DA:1478:G:HO2'	25:DA:1558:A:H2	1.67	0.43
34:BN:88:LYS:O	34:BN:90:LEU:N	2.52	0.43
8:CF:35:ALA:HA	8:CF:67:MET:HB3	2.01	0.43
8:AF:50:TYR:CE1	20:AR:77:GLY:HA2	2.53	0.43
1:AA:1080:A:H5''	7:AE:16:THR:HG21	2.00	0.43
24:AX:13:ARG:CD	24:AX:13:ARG:H	2.29	0.43
25:DA:1858:G:H1'	25:DA:1884:A:H62	1.80	0.43
1:CA:737:A:H2'	1:CA:738:C:C6	2.54	0.43
36:DP:52:GLU:HA	36:DP:52:GLU:OE1	2.18	0.43
25:DA:2646:C:H2'	25:DA:2647:U:O4'	2.18	0.43
25:BA:1550:C:H2'	25:BA:1551:C:C6	2.53	0.43
25:DA:244:A:H2'	25:DA:245:G:O4'	2.18	0.43
6:CD:102:ASP:HA	6:CD:121:VAL:HG21	2.01	0.43
9:CG:146:GLU:HA	9:CG:149:ARG:HB2	1.99	0.43
48:B1:27:GLU:HG3	48:B1:33:LYS:HE3	2.01	0.43
6:AD:100:ARG:O	6:AD:103:ASN:HB3	2.18	0.43
30:BG:134:GLY:C	30:BG:135:LEU:HD12	2.39	0.43
35:DO:22:ILE:HD12	25:DA:1952:A:C5	2.54	0.43
25:DA:638:G:C5	25:DA:651:G:C2	3.07	0.43
25:BA:597:U:H2'	25:BA:598:G:C8	2.54	0.43
25:BA:1759:A:H4'	25:BA:2715:C:O4'	2.18	0.43
44:BX:55:ASN:ND2	44:BX:55:ASN:N	2.65	0.43
25:BA:2517:C:C2	25:BA:2542:A:N1	2.87	0.43
24:AX:243:HIS:HB3	24:AX:246:THR:OG1	2.18	0.43
25:DA:616:A:O2'	25:DA:617:G:P	2.76	0.43
25:DA:579:G:N2	25:DA:1262:A:C4	2.87	0.43
27:BD:119:ALA:HA	27:BD:130:ALA:O	2.18	0.43
1:AA:1049:U:C5	16:AN:3:ARG:HB2	2.53	0.43
25:BA:1139:G:O2'	25:BA:1140:C:H5'	2.17	0.43
1:AA:114:U:H2'	1:AA:115:G:C8	2.54	0.43
1:AA:1013:G:H2'	1:AA:1015:A:OP2	2.19	0.43
19:CQ:59:ILE:HG22	19:CQ:71:PHE:HD1	1.83	0.43
38:DR:54:LEU:O	38:DR:54:LEU:HD23	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:372:G:N2	25:DA:400:G:H2'	2.34	0.43
25:BA:66:C:H2'	25:BA:67:U:O4'	2.17	0.43
25:DA:2476:A:H2'	25:DA:2477:C:H5''	1.99	0.43
25:BA:2732:G:O2'	25:BA:2733:A:H5'	2.17	0.43
25:BA:950:G:C6	25:BA:968:G:N1	2.86	0.43
13:CK:97:ALA:O	13:CK:101:SER:HB3	2.18	0.43
2:CZ:24:U:H2'	2:CZ:25:C:C6	2.53	0.43
25:BA:1095:A:H2'	25:BA:1096:A:C8	2.52	0.43
31:DH:22:GLY:C	31:DH:23:ARG:HD3	2.38	0.43
34:BN:38:LEU:O	34:BN:159:GLU:HA	2.19	0.43
41:BU:57:PHE:HA	41:BU:60:LEU:HB3	1.99	0.43
9:CG:139:GLU:O	9:CG:143:ARG:HG3	2.19	0.43
25:DA:1562:A:C2	25:DA:1563:G:C4	3.07	0.43
1:CA:1225:A:H2'	1:CA:1225:A:N3	2.32	0.43
25:BA:2706:G:H8	25:BA:2706:G:O5'	2.02	0.43
25:BA:1990:C:H2'	25:BA:1991:U:C6	2.54	0.43
45:BY:12:THR:O	45:BY:75:ILE:HG22	2.19	0.43
42:DV:35:LEU:HB3	42:DV:37:VAL:HG23	2.00	0.43
25:BA:1841:U:H2'	25:BA:1842:G:C8	2.50	0.43
45:DY:2:ARG:HG2	45:DY:3:VAL:N	2.32	0.43
30:BG:86:MET:SD	30:BG:87:PRO:HD3	2.59	0.43
36:DP:60:MET:HE3	25:DA:2392:A:H1'	2.01	0.43
25:BA:1998:G:H2'	25:BA:1999:C:H6	1.83	0.43
49:D2:14:ARG:HA	49:D2:17:SER:HB2	2.01	0.43
26:BB:43:C:H4'	30:BG:98:ARG:HH12	1.83	0.43
24:AX:106:ASP:HA	24:AX:167:ALA:HB3	2.00	0.43
45:BY:31:LEU:HA	45:BY:32:PRO:HD2	1.81	0.43
27:DD:13:ARG:NH1	27:DD:16:MET:SD	2.91	0.43
9:AG:127:ALA:HA	9:AG:135:VAL:HG21	2.00	0.43
36:BP:85:LEU:HA	36:BP:88:LEU:HB3	2.01	0.43
27:DD:35:LYS:HE3	27:DD:104:TYR:CB	2.49	0.43
55:D8:59:LYS:O	55:D8:60:LEU:HD23	2.18	0.43
24:CX:300:GLU:CG	24:CX:301:LYS:H	2.28	0.43
46:BZ:70:LEU:HD23	46:BZ:70:LEU:N	2.33	0.43
32:DI:77:LEU:O	32:DI:143:SER:HB3	2.18	0.43
1:AA:1502:A:H8	1:AA:1505:G:N2	2.15	0.43
1:CA:1493:A:N1	25:DA:1913:A:C8	2.87	0.43
1:AA:828:A:O2'	4:AB:26:PRO:HB3	2.19	0.43
53:D6:11:LEU:HB3	53:D6:24:GLU:CB	2.48	0.43
48:D1:27:GLU:HG3	48:D1:33:LYS:HE3	2.00	0.43
6:AD:134:ASP:O	6:AD:136:PRO:HD3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1549:C:H2'	25:DA:1550:C:C6	2.54	0.43
1:AA:370:C:N3	1:AA:392:G:C2	2.86	0.43
25:BA:2887:U:H2'	25:BA:2888:C:C6	2.53	0.43
28:DE:4:ILE:HG12	28:DE:28:ALA:HB1	2.00	0.43
1:AA:261:U:H5	22:AT:79:ARG:NH1	2.16	0.43
30:DG:81:LYS:C	30:DG:82:LEU:HD23	2.39	0.43
34:DN:57:LEU:HD11	34:DN:142:ARG:HB2	2.00	0.43
24:CX:243:HIS:ND1	24:CX:245:PRO:HD2	2.34	0.43
25:BA:155:C:H2'	25:BA:161:U:H5'	2.00	0.43
40:DT:80:SER:HA	40:DT:81:PRO:HD3	1.85	0.43
24:CX:323:ASP:O	24:CX:324:LEU:C	2.56	0.43
25:BA:2020:A:C5'	52:B5:12:SER:HB3	2.47	0.43
53:D6:38:LYS:HA	53:D6:48:VAL:HA	1.99	0.43
2:CY:51:C:H2'	2:CY:52:G:C8	2.54	0.43
8:AF:60:PHE:C	8:AF:61:LEU:HD12	2.39	0.43
28:BE:104:VAL:HA	28:BE:197:ILE:O	2.18	0.43
28:BE:116:VAL:HG13	28:BE:117:MET:N	2.34	0.43
25:DA:469:G:C2'	25:DA:470:A:H5''	2.49	0.43
25:BA:2037:G:C6	25:BA:2038:G:C6	3.06	0.43
26:BB:16:G:C6	26:BB:69:G:C2	3.06	0.43
25:BA:2572:A:P	28:BE:144:ARG:HB2	2.59	0.43
4:AB:113:HIS:O	4:AB:116:GLU:HG2	2.19	0.43
25:BA:269:U:H1'	25:BA:424:G:N2	2.34	0.43
21:AS:10:PHE:N	21:AS:10:PHE:CD1	2.86	0.43
25:BA:815:C:C2	25:BA:1193:G:C2	3.06	0.43
1:AA:1425:U:H2'	1:AA:1426:C:C6	2.54	0.43
30:DG:109:VAL:C	30:DG:112:PRO:HD2	2.39	0.43
25:DA:88:G:H2'	25:DA:88:G:N3	2.34	0.43
38:BR:26:LYS:HE2	38:BR:71:GLN:H	1.83	0.43
24:AX:319:PHE:HE2	24:AX:335:ILE:HG12	1.84	0.43
11:CI:3:GLN:HG2	11:CI:20:ARG:HG2	1.99	0.43
25:DA:649:G:H2'	25:DA:650:C:O4'	2.18	0.43
36:DP:81:GLN:HG2	36:DP:106:LEU:HD22	2.00	0.43
24:CX:131:TYR:HE1	24:CX:174:GLU:HG3	1.84	0.43
25:DA:30:G:H2'	25:DA:31:C:O4'	2.18	0.43
50:B3:26:LEU:HD11	50:B3:46:ASN:HB3	2.01	0.43
4:AB:124:SER:C	4:AB:126:GLU:H	2.21	0.43
45:DY:68:HIS:CE1	45:DY:70:SER:HB2	2.52	0.43
25:BA:2783:G:H22	28:BE:37:ARG:HH12	1.66	0.43
25:BA:2078:C:H2'	25:BA:2079:U:C6	2.54	0.43
1:AA:899:C:H6	1:AA:899:C:O5'	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DO:14:THR:HG22	35:DO:14:THR:O	2.17	0.43
29:BF:95:ARG:O	29:BF:95:ARG:HD2	2.19	0.43
1:AA:945:G:H2'	1:AA:945:G:N3	2.33	0.43
1:AA:1438:G:H2'	1:AA:1439:C:H6	1.82	0.43
1:AA:723:U:H5''	1:AA:724:G:OP2	2.18	0.43
37:DQ:85:LYS:HB2	25:DA:2276:G:O3'	2.18	0.43
27:BD:231:HIS:CE1	27:BD:232:PRO:HD2	2.53	0.43
1:AA:1250:A:C2	1:AA:1370:G:H1'	2.53	0.43
52:D5:2:ALA:N	25:DA:2015:A:N3	2.67	0.43
13:AK:42:TRP:HZ3	13:AK:47:VAL:HG22	1.83	0.43
25:BA:1056:G:H21	25:BA:1103:A:H62	1.65	0.43
1:AA:1344:C:O2'	1:AA:1345:U:H5'	2.19	0.43
25:BA:2420:C:O5'	25:BA:2420:C:H6	2.02	0.43
27:BD:85:ASP:HA	27:BD:86:PRO:HD2	1.87	0.43
25:DA:2275:C:H5'	25:DA:2275:C:C6	2.46	0.43
25:DA:1658:C:N4	25:DA:2002:G:H1	2.13	0.43
25:BA:833:U:H1'	36:BP:55:ARG:NH1	2.33	0.43
25:BA:2072:G:C6	25:BA:2073:C:C4	3.07	0.43
35:BO:8:LEU:HB2	35:BO:19:ILE:CD1	2.45	0.43
25:BA:511:U:C5	25:BA:512:G:C5	3.07	0.43
43:DW:4:LYS:HG2	43:DW:106:ILE:HG22	2.01	0.43
1:AA:502:G:C6	1:AA:503:C:C4	3.07	0.43
25:BA:1023:U:O2'	25:BA:1122:G:H5''	2.18	0.43
2:AZ:47:U:H3'	2:AZ:48:C:C5'	2.49	0.43
25:DA:2543:G:H2'	25:DA:2544:G:H8	1.83	0.43
26:DB:49:C:O5'	26:DB:49:C:H6	2.00	0.43
1:AA:1203:C:OP1	16:AN:3:ARG:HD3	2.19	0.43
25:BA:1039:G:H2'	25:BA:1040:C:H6	1.82	0.43
1:AA:358:U:H6	1:AA:358:U:C5'	2.31	0.43
25:BA:469:G:C2'	25:BA:470:A:H5''	2.48	0.43
25:DA:791:C:N4	25:DA:794:G:H1'	2.33	0.43
4:CB:95:GLN:HB3	4:CB:148:TYR:HD1	1.84	0.43
25:DA:2623:G:H2'	25:DA:2624:G:C8	2.54	0.43
1:CA:551:U:H2'	1:CA:552:U:H6	1.82	0.43
25:DA:2262:U:H4'	25:DA:2328:A:C2	2.53	0.43
25:DA:273(B):G:C6	25:DA:364:C:N4	2.87	0.43
19:AQ:54:GLY:HA3	19:AQ:82:MET:HE2	2.00	0.43
25:DA:2720:U:H2'	25:DA:2721:A:C8	2.54	0.43
31:DH:154:PRO:HA	31:DH:160:LYS:O	2.17	0.43
25:DA:223:A:N7	25:DA:422:A:H1'	2.34	0.43
8:AF:5:GLU:HG3	8:AF:93:SER:OG	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:1917:U:H2'	25:DA:1918:A:H8	1.83	0.43
25:DA:1326:U:H2'	25:DA:1327:C:H6	1.83	0.43
25:DA:1336:A:H2'	25:DA:1337:G:C8	2.54	0.43
25:DA:1517:G:H2'	25:DA:1518:C:C6	2.53	0.43
43:BW:88:ARG:HB3	43:BW:92:ARG:HB2	2.00	0.43
25:DA:853:G:H2'	25:DA:854:G:C8	2.53	0.43
47:B0:66:VAL:O	47:B0:81:VAL:HA	2.18	0.43
28:BE:11:MET:HE3	28:BE:186:GLY:HA2	2.01	0.43
21:AS:58:VAL:HA	21:AS:59:PRO:HD2	1.87	0.43
29:BF:116:ASP:OD2	36:BP:5:ASP:HB2	2.19	0.43
25:BA:1268:A:C2	25:BA:2013:A:C4	3.07	0.43
25:BA:449:A:C6	25:BA:450:G:C5	3.06	0.43
43:DW:65:LEU:HB2	43:DW:68:ARG:HG2	2.00	0.43
38:DR:42:LYS:O	38:DR:45:ARG:HB3	2.17	0.43
25:DA:2674:G:H2'	25:DA:2675:A:C8	2.54	0.43
39:DS:32:LEU:HD11	26:DB:30:C:OP2	2.19	0.43
29:BF:173:VAL:HG12	29:BF:174:VAL:N	2.34	0.43
1:AA:886:G:C4	1:AA:887:G:C8	3.06	0.43
25:DA:2321:G:N3	25:DA:2321:G:H2'	2.34	0.43
25:BA:836:G:O5'	25:BA:836:G:H8	2.01	0.43
50:B3:17:LYS:HD3	50:B3:17:LYS:C	2.39	0.43
46:DZ:89:PHE:CE2	26:DB:104:A:H4'	2.53	0.43
44:DX:12:VAL:HG12	44:DX:27:THR:O	2.18	0.43
25:DA:46:C:OP2	25:DA:215:G:H2'	2.19	0.43
30:BG:49:ASP:HB3	30:BG:52:ILE:HG12	2.00	0.43
1:AA:904:C:H2'	1:AA:905:U:O4'	2.19	0.43
48:D1:11:ARG:HH11	48:D1:60:PHE:HA	1.84	0.43
45:DY:2:ARG:C	45:DY:4:LYS:H	2.22	0.43
36:DP:57:THR:HG23	36:DP:59:LEU:CB	2.48	0.43
36:DP:61:ARG:CD	36:DP:61:ARG:H	2.28	0.43
20:AR:29:PHE:CD1	20:AR:39:VAL:HG11	2.53	0.43
1:CA:1219:U:H2'	1:CA:1220:G:C8	2.53	0.43
25:BA:941:A:O2'	36:BP:35:HIS:HB3	2.18	0.43
25:BA:140:A:N6	25:BA:141(A):A:N6	2.65	0.43
27:DD:10:THR:HG23	27:DD:13:ARG:CB	2.48	0.43
25:DA:197:A:C6	25:DA:2430:A:C8	3.07	0.43
9:CG:65:ALA:O	9:CG:69:VAL:HG23	2.19	0.43
32:BI:142:VAL:HG12	32:BI:143:SER:H	1.84	0.43
25:DA:1999:C:H5''	25:DA:2723:C:O2'	2.19	0.43
27:DD:25:THR:HG21	27:DD:82:ILE:H	1.81	0.43
25:DA:114(B):A:C4	25:DA:1144:G:N7	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BI:62:LYS:HE3	32:BI:136:VAL:CG2	2.48	0.43
1:AA:250:A:N3	1:AA:252:U:C4	2.87	0.43
25:BA:2299:G:H2'	25:BA:2300:G:H8	1.83	0.43
25:BA:1658:C:N4	25:BA:2002:G:H1	2.13	0.43
35:DO:8:LEU:HD22	35:DO:8:LEU:N	2.34	0.43
34:DN:134:PRO:HA	34:DN:137:ARG:NE	2.33	0.43
25:BA:638:G:C6	25:BA:639:U:C4	3.06	0.43
25:DA:831:G:H2'	25:DA:832:G:O4'	2.18	0.43
49:B2:48:HIS:HD2	49:B2:52:ASP:OD2	2.02	0.43
44:DX:55:ASN:ND2	44:DX:55:ASN:N	2.65	0.43
29:BF:12:LEU:HB2	29:BF:124:LEU:HD11	1.99	0.43
34:DN:122:LEU:O	34:DN:125:ALA:HB3	2.18	0.43
1:AA:453:A:C2	1:AA:454:C:C2	3.07	0.43
1:AA:37:U:OP2	14:AL:122:LYS:HG3	2.19	0.43
48:D1:82:LEU:N	48:D1:82:LEU:HD12	2.33	0.43
1:AA:1049:U:H4'	1:AA:1050:G:OP2	2.18	0.43
1:AA:434:U:H2'	1:AA:435:C:C6	2.53	0.43
25:DA:603:A:N6	25:DA:655:A:H2'	2.33	0.43
25:DA:2090:G:C6	25:DA:2091:U:C4	3.07	0.43
10:CH:19:VAL:CG2	10:CH:21:LYS:HG2	2.48	0.43
32:DI:81:VAL:HG12	32:DI:82:ARG:N	2.33	0.43
1:CA:78:G:H2'	1:CA:79:G:C8	2.53	0.43
25:DA:312:G:H5'	25:DA:331:A:H2'	1.99	0.43
4:CB:39:ILE:HD12	4:CB:39:ILE:H	1.84	0.43
5:CC:91:LEU:HB3	5:CC:99:VAL:HG11	2.01	0.43
25:BA:372:G:N2	25:BA:400:G:H2'	2.34	0.43
2:CY:17(A):U:H5''	2:CY:18:G:OP2	2.19	0.43
1:AA:235:C:H2'	1:AA:236:G:C8	2.54	0.43
25:BA:1336:A:H2'	25:BA:1337:G:C8	2.54	0.43
1:CA:309:G:H2'	1:CA:310:G:H8	1.84	0.43
25:DA:1870:C:H2'	25:DA:1871:A:C8	2.53	0.43
25:BA:25:U:H5''	43:BW:80:PRO:HD3	2.00	0.43
41:DU:110:VAL:O	41:DU:114:LYS:HG2	2.19	0.43
1:AA:468:A:P	18:AP:75:ARG:HH12	2.41	0.43
1:CA:1438:G:H2'	1:CA:1439:C:H6	1.84	0.43
34:DN:108:ILE:HA	34:DN:109:PRO:HD2	1.89	0.43
26:BB:30:C:OP2	39:BS:32:LEU:HD11	2.19	0.43
55:B8:52:LYS:N	55:B8:53:PRO:HD2	2.33	0.43
21:CS:39:THR:OG1	21:CS:70:LYS:HE2	2.18	0.43
21:AS:39:THR:OG1	21:AS:70:LYS:HE2	2.18	0.43
26:DB:14:U:H1'	26:DB:107:U:H1'	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:955:U:H2'	1:AA:956:U:H6	1.84	0.43
14:CL:27:LYS:C	14:CL:29:ALA:N	2.71	0.43
25:DA:270(O):G:H2'	25:DA:270(P):U:H5''	1.99	0.43
25:BA:957:A:OP1	37:BQ:76:LYS:HD2	2.19	0.43
1:CA:899:C:O5'	1:CA:899:C:H6	2.01	0.43
27:DD:43:ARG:HB2	27:DD:48:ARG:O	2.18	0.43
45:BY:90:LEU:HD23	45:BY:90:LEU:N	2.34	0.43
7:CE:20:GLN:HB3	7:CE:20:GLN:HE21	1.60	0.43
25:DA:2626:C:H42	25:DA:2777:G:H1	1.67	0.43
1:CA:979:C:H2'	16:CN:19:ARG:HH12	1.84	0.43
36:BP:58:THR:C	36:BP:60:MET:H	2.22	0.43
49:B2:14:ARG:HH21	49:B2:67:LYS:HB3	1.84	0.43
11:CI:118:LYS:C	11:CI:120:ARG:H	2.21	0.43
25:DA:1652:A:H2'	25:DA:1653:G:O4'	2.19	0.43
1:CA:1511:G:C6	1:CA:1512:U:N3	2.87	0.43
38:DR:61:HIS:CG	25:DA:2850:A:H2	2.36	0.43
2:CZ:76:A:N1	55:D8:31:HIS:NE2	2.67	0.43
25:BA:886:C:C3'	25:BA:886:C:C6	3.01	0.43
25:DA:511:U:C5	25:DA:512:G:C5	3.06	0.43
36:DP:70:GLN:N	25:DA:245:G:H5''	2.33	0.43
12:AJ:75:ILE:CG1	12:AJ:76:ASN:H	2.26	0.43
1:CA:828:A:O2'	4:CB:26:PRO:HB3	2.18	0.43
48:D1:27:GLU:CB	48:D1:33:LYS:HA	2.48	0.43
30:BG:110:ALA:O	30:BG:114:ILE:HG13	2.19	0.43
22:CT:61:SER:O	22:CT:65:LYS:HG2	2.18	0.43
27:DD:165:ILE:N	27:DD:165:ILE:HD12	2.34	0.43
1:AA:176:C:H5''	22:AT:29:LYS:HZ2	1.82	0.43
14:AL:103:VAL:HG12	14:AL:104:TYR:CD1	2.53	0.43
41:DU:45:TYR:O	41:DU:49:HIS:CD2	2.72	0.43
25:BA:2050:C:H1'	28:BE:156:MET:CE	2.49	0.43
13:AK:59:TYR:CZ	13:AK:63:LEU:HD11	2.54	0.43
38:BR:24:GLN:O	38:BR:28:LEU:HB2	2.19	0.43
5:CC:86:VAL:O	5:CC:89:GLU:HB3	2.18	0.43
4:CB:17:PHE:CD1	4:CB:44:LEU:HD21	2.54	0.43
46:DZ:166:SER:HA	46:DZ:167:PRO:HD2	1.78	0.43
25:BA:322:A:H2'	29:BF:169:ASN:ND2	2.34	0.43
25:DA:1607:C:H4'	25:DA:1608:A:O5'	2.17	0.43
25:BA:2789:C:H1'	25:BA:2892:A:H2	1.83	0.43
7:AE:25:ARG:HD2	7:AE:25:ARG:N	2.33	0.43
25:DA:375:C:H2'	25:DA:376:C:C6	2.51	0.43
25:DA:2581:G:C6	25:DA:2610:C:N3	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1191:A:H2'	1:AA:1192:C:C6	2.54	0.43
25:DA:775:G:C4	25:DA:794:G:C8	3.06	0.43
25:BA:666:G:C5	25:BA:667:U:C4	3.07	0.43
1:CA:77:C:H2'	1:CA:78:G:C8	2.54	0.43
2:AZ:34:C:H5	9:AG:79:ARG:HH22	1.67	0.43
25:BA:273(A):G:C4	25:BA:273(B):G:C8	3.06	0.43
1:CA:718:G:C4	13:CK:116:HIS:ND1	2.87	0.43
1:CA:186(B):C:O2'	22:CT:89:ARG:HD2	2.18	0.43
10:AH:9:MET:SD	10:AH:32:LYS:HG2	2.59	0.43
25:BA:2720:U:H2'	25:BA:2721:A:C8	2.53	0.43
25:BA:2263:C:H2'	25:BA:2264:C:H6	1.83	0.43
35:DO:1:MET:H1	35:DO:67:LYS:HB3	1.83	0.43
41:DU:25:TRP:O	41:DU:26:GLY:C	2.57	0.43
25:DA:2718:G:H2'	25:DA:2719:G:C8	2.54	0.43
25:DA:1322:A:H2'	25:DA:1323:U:H6	1.83	0.43
25:BA:1765:C:H6	25:BA:1765:C:O5'	2.02	0.43
25:BA:1322:A:H2'	25:BA:1323:U:H6	1.84	0.43
39:DS:11:LYS:HD2	39:DS:91:PRO:HB3	2.01	0.43
37:BQ:134:ARG:O	37:BQ:135:ASP:HB2	2.18	0.43
7:AE:101:ILE:HD11	7:AE:119:LEU:HD22	2.01	0.43
24:AX:108:ILE:HA	24:AX:160:PHE:O	2.19	0.43
25:DA:2078:C:H2'	25:DA:2079:U:C6	2.54	0.43
1:CA:768:A:H5'	1:CA:1524:C:H1'	2.01	0.43
25:BA:187:G:C6	25:BA:188:G:C5	3.07	0.43
36:DP:38:GLN:CD	25:DA:943:U:OP2	2.57	0.43
1:AA:6:G:H4'	1:AA:298:A:H4'	2.01	0.43
51:D4:53:THR:O	51:D4:57:ILE:HD11	2.18	0.43
41:BU:107:ALA:O	41:BU:110:VAL:HB	2.19	0.43
4:AB:7:VAL:O	4:AB:11:LEU:HG	2.18	0.43
25:BA:847:U:H3	25:BA:934:G:N2	2.17	0.43
31:BH:84:SER:HA	31:BH:133:VAL:O	2.18	0.43
1:CA:105:G:C6	1:CA:106:C:C4	3.06	0.43
25:BA:1029:A:N3	25:BA:2486:G:H1'	2.34	0.43
35:DO:96:THR:O	35:DO:97:ARG:C	2.57	0.43
15:CM:70:LEU:C	15:CM:70:LEU:HD23	2.39	0.43
1:AA:581:G:O5'	1:AA:581:G:H8	2.02	0.43
1:CA:1290:G:H2'	1:CA:1290:G:N3	2.34	0.43
43:BW:25:ARG:HB2	43:BW:25:ARG:NH1	2.33	0.43
6:AD:80:GLU:O	6:AD:84:LYS:HG2	2.19	0.43
1:CA:872:A:C5	1:CA:874:G:C8	3.06	0.43
50:B3:40:THR:O	50:B3:44:ARG:HG3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:B1:11:ARG:HG3	48:B1:61:ARG:O	2.19	0.43
25:BA:2056:G:N2	52:B5:4:HIS:O	2.52	0.43
1:AA:1303:C:H2'	1:AA:1304:G:O4'	2.19	0.43
1:CA:939:G:H5''	9:CG:102:ARG:HH12	1.84	0.43
25:DA:1997:G:H2'	25:DA:1998:G:H8	1.84	0.43
34:BN:90:LEU:O	34:BN:111:GLU:HG3	2.19	0.43
40:DT:108:ARG:HG3	40:DT:108:ARG:H	1.68	0.43
25:DA:1022:G:O2'	25:DA:1023:U:OP2	2.37	0.43
48:D1:86:SER:CB	48:D1:90:ILE:HG12	2.49	0.43
38:DR:12:ARG:HH22	38:DR:40:LYS:HZ1	1.67	0.43
12:AJ:76:ASN:HA	12:AJ:77:PRO:HD2	1.86	0.43
9:AG:15:ASP:HB2	9:AG:20:ASP:O	2.19	0.43
48:B1:26:ARG:O	48:B1:27:GLU:HB3	2.19	0.43
43:BW:4:LYS:HG2	43:BW:106:ILE:HG22	2.01	0.43
49:D2:50:ILE:HG21	25:DA:61:G:H5'	2.00	0.43
14:AL:69:ILE:HD12	14:AL:69:ILE:N	2.34	0.43
27:BD:10:THR:HG23	27:BD:13:ARG:CB	2.49	0.43
25:BA:722:A:H2'	25:BA:723:G:C8	2.54	0.43
29:BF:186:ILE:C	29:BF:188:ARG:H	2.22	0.43
37:DQ:120:ILE:HA	37:DQ:123:HIS:HD2	1.84	0.43
14:CL:46:LYS:HG2	14:CL:47:PRO:N	2.34	0.43
1:AA:714:G:N2	1:AA:777:A:H1'	2.33	0.43
29:DF:31:HIS:O	29:DF:34:TRP:HB3	2.19	0.43
34:BN:49:LEU:HD23	34:BN:122:LEU:HD21	2.01	0.43
16:AN:3:ARG:O	16:AN:7:ILE:HG23	2.19	0.43
41:DU:75:ASN:HB3	25:DA:1011:G:OP1	2.19	0.43
4:CB:39:ILE:HD12	4:CB:39:ILE:N	2.34	0.43
25:DA:1936:A:H5''	25:DA:1936:A:N3	2.33	0.43
25:DA:1782:C:H2'	25:DA:2608:G:O2'	2.19	0.43
25:BA:2758:A:C2	25:BA:2759:G:H1'	2.54	0.43
28:DE:9:VAL:HG21	40:DT:7:ILE:HG21	2.00	0.43
1:AA:665:A:C8	1:AA:725:G:C2	3.07	0.43
2:AY:46:G:H2'	2:AY:47:U:H5''	2.01	0.43
25:BA:29:U:H1'	41:BU:11:ARG:HH12	1.84	0.43
25:BA:1283:G:H1'	25:BA:1329:U:O2	2.19	0.43
1:AA:272:C:H2'	1:AA:273:A:C8	2.53	0.43
25:BA:952:G:P	37:BQ:16:ARG:HH12	2.42	0.43
1:CA:27:G:H2'	1:CA:28:G:O4'	2.19	0.43
35:BO:122:LEU:CD2	40:BT:74:ARG:HE	2.32	0.43
40:BT:68:TYR:N	40:BT:68:TYR:HD2	2.17	0.43
41:BU:110:VAL:O	41:BU:114:LYS:HG2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AY:65:C:H2'	2:AY:66:C:C6	2.54	0.43
27:DD:106:ILE:H	27:DD:106:ILE:HG13	1.63	0.43
39:DS:95:HIS:HE1	26:DB:37:C:H2'	1.84	0.43
25:DA:239:U:H2'	25:DA:240:G:O4'	2.19	0.43
25:BA:30:G:H2'	25:BA:31:C:O4'	2.18	0.43
25:BA:1870:C:H2'	25:BA:1871:A:C8	2.53	0.43
45:BY:68:HIS:CE1	45:BY:70:SER:HB2	2.54	0.43
1:CA:632:A:H2'	1:CA:633:G:O4'	2.19	0.43
25:DA:15:G:C4	25:DA:16:G:C8	3.07	0.43
25:DA:802:A:C5	25:DA:803:U:C4	3.07	0.43
36:DP:98:GLU:O	36:DP:101:VAL:HG12	2.19	0.43
25:DA:273(D):C:H2'	25:DA:273(E):C:C6	2.54	0.43
25:DA:2864:G:H2'	25:DA:2865:U:O4'	2.18	0.43
38:DR:26:LYS:HE2	38:DR:71:GLN:H	1.84	0.43
6:CD:144:ASP:O	6:CD:184:LYS:HA	2.19	0.43
25:DA:733:G:O5'	25:DA:733:G:H8	2.02	0.43
7:CE:13:ILE:N	7:CE:13:ILE:HD12	2.34	0.43
1:AA:978:A:H8	1:AA:978:A:H5''	1.83	0.43
25:BA:2181:G:C2	25:BA:2182:G:C8	3.07	0.43
25:BA:2276:G:H2'	25:BA:2277:G:C8	2.54	0.42
42:BV:35:LEU:HB3	42:BV:37:VAL:HG23	2.01	0.42
1:AA:1145:C:O2'	1:AA:1146:A:P	2.77	0.42
4:AB:185:ILE:HA	4:AB:199:TYR:O	2.19	0.42
37:BQ:43:THR:O	37:BQ:46:GLN:HB2	2.18	0.42
18:AP:8:ARG:NH2	18:AP:15:PRO:HG3	2.34	0.42
1:CA:521:G:H2'	1:CA:522:C:H6	1.84	0.42
49:D2:17:SER:HB3	49:D2:18:PRO:HD3	1.97	0.42
25:BA:2415:G:C6	25:BA:2416:C:C4	3.07	0.42
1:AA:1219:U:H2'	1:AA:1220:G:C8	2.53	0.42
25:BA:570:G:H2'	25:BA:2030:A:N6	2.32	0.42
30:BG:94:LEU:HD12	30:BG:98:ARG:O	2.19	0.42
25:BA:1675:C:N3	28:BE:128:SER:HB2	2.34	0.42
25:BA:2591:C:H2'	25:BA:2592:G:H8	1.83	0.42
10:AH:109:ILE:HG12	10:AH:110:ALA:N	2.34	0.42
25:BA:197:A:C6	25:BA:2430:A:C8	3.07	0.42
27:BD:32:SER:HA	27:BD:36:PRO:CG	2.47	0.42
27:DD:72:LYS:HE3	27:DD:101:GLU:HG2	2.01	0.42
34:DN:88:LYS:O	34:DN:90:LEU:N	2.52	0.42
48:D1:90:ILE:HA	48:D1:90:ILE:HD13	1.86	0.42
42:DV:17:GLY:HA2	42:DV:96:ILE:O	2.19	0.42
25:BA:2073:C:H2'	25:BA:2074:U:H6	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BO:8:LEU:O	35:BO:19:ILE:HD13	2.19	0.42
41:BU:14:HIS:CE1	41:BU:32:PHE:CD2	3.06	0.42
15:AM:91:ARG:NH1	21:AS:81:ARG:HH12	2.16	0.42
46:DZ:28:MET:HA	46:DZ:88:PHE:HB2	2.01	0.42
1:CA:1060:C:H5'	16:CN:45:ARG:HH22	1.84	0.42
45:BY:95:LYS:HG2	45:BY:100:ALA:HA	2.01	0.42
24:AX:182:ARG:HB3	24:AX:307:PHE:HB2	2.01	0.42
5:CC:19:GLU:HG2	5:CC:40:ARG:HH22	1.84	0.42
1:CA:833:U:H2'	1:CA:834:C:H6	1.78	0.42
22:CT:50:GLU:O	22:CT:54:LYS:HB2	2.19	0.42
25:DA:2513:G:H2'	25:DA:2514:U:C6	2.54	0.42
34:BN:122:LEU:O	34:BN:125:ALA:HB3	2.19	0.42
1:AA:603:U:H2'	1:AA:604:G:H8	1.81	0.42
30:BG:47:LYS:HD3	30:BG:48:GLU:N	2.34	0.42
27:BD:161:THR:O	27:BD:162:SER:HB2	2.19	0.42
24:AX:234:THR:HG23	24:AX:235:THR:N	2.32	0.42
25:DA:2037:G:C6	25:DA:2038:G:C6	3.06	0.42
1:AA:360:A:H2'	1:AA:361:G:C8	2.55	0.42
28:BE:78:LEU:HD23	28:BE:78:LEU:N	2.33	0.42
1:AA:77:C:H2'	1:AA:78:G:C8	2.53	0.42
25:BA:1961:C:O2'	25:BA:1962:C:H5'	2.19	0.42
25:DA:1570:A:H2'	25:DA:1571:A:C8	2.53	0.42
1:CA:1015:A:H8	1:CA:1015:A:O5'	2.01	0.42
25:DA:363(G):A:H4'	25:DA:364:C:H5'	2.01	0.42
25:BA:1587:A:H2'	25:BA:1588:C:H6	1.82	0.42
37:DQ:134:ARG:O	37:DQ:135:ASP:HB2	2.19	0.42
25:BA:931:G:H3'	25:BA:931:G:H8	1.84	0.42
8:CF:5:GLU:HG3	8:CF:93:SER:OG	2.19	0.42
25:BA:262:A:H2'	25:BA:263:C:O4'	2.19	0.42
25:BA:2173:A:H2'	25:BA:2174:C:O4'	2.19	0.42
1:AA:92:G:C6	1:AA:93:U:N3	2.87	0.42
31:BH:42:ARG:O	31:BH:52:VAL:HA	2.19	0.42
25:BA:2121:G:H8	25:BA:2121:G:O5'	2.02	0.42
1:AA:886:G:H2'	1:AA:887:G:O4'	2.19	0.42
43:BW:25:ARG:HH11	43:BW:25:ARG:HB2	1.84	0.42
50:D3:40:THR:O	50:D3:44:ARG:HG3	2.19	0.42
35:BO:66:LYS:HB2	35:BO:82:ASN:OD1	2.19	0.42
24:AX:130:MET:HE3	24:AX:328:LEU:HD23	2.01	0.42
18:AP:27:LYS:N	18:AP:27:LYS:HD2	2.34	0.42
19:AQ:11:VAL:HG21	19:AQ:88:TYR:CG	2.54	0.42
27:BD:105:ILE:HG12	27:BD:106:ILE:HD12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:DD:131:LEU:HD13	27:DD:135:PHE:HB2	2.01	0.42
13:AK:97:ALA:O	13:AK:101:SER:HB3	2.18	0.42
19:CQ:3:LYS:HD3	19:CQ:60:ILE:HD11	2.01	0.42
24:CX:130:MET:HE3	24:CX:328:LEU:HD23	2.01	0.42
24:CX:319:PHE:HE2	24:CX:335:ILE:HG12	1.84	0.42
1:CA:862:C:O2'	1:CA:863:U:H5'	2.19	0.42
25:BA:1992:G:H8	25:BA:1992:G:OP1	2.02	0.42
10:CH:69:ARG:HA	10:CH:69:ARG:HD3	1.77	0.42
1:CA:198:G:C6	1:CA:220:G:C2	3.07	0.42
30:DG:137:GLU:HG2	30:DG:152:LEU:HD13	2.01	0.42
1:CA:92:G:C5	1:CA:93:U:C4	3.07	0.42
28:BE:119:ARG:HG2	28:BE:160:TYR:CG	2.53	0.42
36:DP:128:HIS:CA	36:DP:147:LEU:HB3	2.34	0.42
1:AA:1129:C:O2'	1:AA:1130:A:P	2.77	0.42
1:AA:1353:G:C2	1:AA:1370:G:C2	3.07	0.42
46:DZ:25:PRO:HG2	46:DZ:84:GLU:O	2.19	0.42
25:BA:586:A:H5'	29:BF:89:VAL:CG1	2.38	0.42
25:DA:1495:A:H5'	25:DA:1496:A:OP2	2.19	0.42
25:BA:662:G:C2	25:BA:663:G:C5	3.07	0.42
1:CA:1303:C:H2'	1:CA:1304:G:O4'	2.19	0.42
1:CA:1510:U:H2'	1:CA:1511:G:C8	2.54	0.42
1:AA:939:G:H5''	9:AG:102:ARG:HH12	1.84	0.42
32:BI:109:ILE:N	32:BI:109:ILE:HD13	2.33	0.42
32:BI:77:LEU:O	32:BI:143:SER:HB3	2.19	0.42
27:DD:62:TYR:CG	27:DD:63:ARG:N	2.88	0.42
25:DA:1019:U:O2'	25:DA:1021:A:H2	2.03	0.42
4:CB:178:ARG:HD2	10:CH:71:GLY:C	2.39	0.42
55:B8:59:LYS:O	55:B8:60:LEU:HD23	2.18	0.42
29:BF:7:TYR:O	29:BF:8:GLN:C	2.58	0.42
25:BA:270(Q):C:HO2'	25:BA:270(R):C:H6	1.65	0.42
28:BE:4:ILE:HG12	28:BE:28:ALA:HB1	2.00	0.42
14:CL:45:LYS:HB3	14:CL:46:LYS:H	1.47	0.42
34:DN:49:LEU:HD23	34:DN:122:LEU:HD21	2.01	0.42
1:CA:501:C:H2'	1:CA:502:G:C8	2.54	0.42
25:BA:617:G:C2	25:BA:618(A):G:C4	3.08	0.42
24:AX:243:HIS:ND1	24:AX:245:PRO:HD2	2.34	0.42
25:DA:155:C:H2'	25:DA:161:U:H5'	2.01	0.42
16:CN:43:CYS:O	16:CN:47:LEU:HG	2.19	0.42
36:DP:80:TYR:CZ	36:DP:111:ARG:HG2	2.54	0.42
25:DA:1039:G:H2'	25:DA:1040:C:H6	1.83	0.42
4:AB:17:PHE:CD1	4:AB:44:LEU:HD21	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:DG:55:LYS:O	30:DG:58:GLN:HG2	2.19	0.42
10:CH:97:VAL:HG13	10:CH:98:LYS:H	1.84	0.42
25:BA:340:A:H2'	25:BA:341:G:O4'	2.19	0.42
42:DV:77:ALA:O	42:DV:79:VAL:N	2.52	0.42
25:DA:470:A:H2'	25:DA:471:A:C8	2.55	0.42
25:BA:2095:C:H2'	25:BA:2096:U:C6	2.54	0.42
1:AA:1201:A:O2'	1:AA:1202:G:OP2	2.35	0.42
4:CB:27:LYS:HD3	4:CB:27:LYS:H	1.83	0.42
1:AA:542:G:H5'	6:AD:41:GLY:HA2	2.01	0.42
1:AA:438:G:O5'	1:AA:438:G:H8	2.01	0.42
19:AQ:40:LYS:HD2	19:AQ:42:TYR:CZ	2.53	0.42
1:AA:1517:G:H2'	1:AA:1518:A:C8	2.54	0.42
4:AB:217:ARG:O	4:AB:220:ASP:HB2	2.18	0.42
2:CY:21:A:O2'	2:CY:22:G:H8	2.02	0.42
25:DA:1458:C:H4'	25:DA:1459:G:C4	2.54	0.42
25:BA:2307:G:N2	25:BA:2312:U:C4	2.87	0.42
7:CE:64:ARG:HG3	7:CE:65:ASN:N	2.34	0.42
25:DA:1764:G:C2	25:DA:1765:C:C2	3.07	0.42
25:DA:2121:G:O5'	25:DA:2121:G:H8	2.02	0.42
25:DA:2122:U:H2'	25:DA:2123:G:O4'	2.19	0.42
1:AA:309:G:H2'	1:AA:310:G:H8	1.85	0.42
25:BA:853:G:H2'	25:BA:854:G:C8	2.54	0.42
1:CA:1415:G:H2'	1:CA:1416:G:H8	1.83	0.42
1:CA:952:U:H2'	1:CA:953:G:H8	1.84	0.42
41:DU:107:ALA:O	41:DU:110:VAL:HB	2.19	0.42
1:AA:298:A:C6	1:AA:299:G:N1	2.87	0.42
27:DD:105:ILE:HG12	27:DD:106:ILE:HD12	2.01	0.42
25:BA:164:U:C4	25:BA:165:U:C4	3.08	0.42
25:DA:962:G:H2'	25:DA:963:U:O4'	2.19	0.42
19:AQ:3:LYS:HD3	19:AQ:60:ILE:HD11	2.01	0.42
6:CD:80:GLU:O	6:CD:84:LYS:HG2	2.18	0.42
25:BA:2674:G:H2'	25:BA:2675:A:C8	2.55	0.42
7:AE:17:ALA:HB2	7:AE:26:PHE:CD2	2.54	0.42
11:AI:75:ASP:O	11:AI:78:LYS:HB3	2.19	0.42
30:BG:137:GLU:HG2	30:BG:152:LEU:HD13	2.01	0.42
45:DY:14:LEU:HD23	45:DY:14:LEU:C	2.39	0.42
49:D2:1:MET:O	49:D2:1:MET:SD	2.77	0.42
17:AO:67:LEU:HB3	17:AO:78:TYR:HE1	1.83	0.42
1:AA:1347:G:H22	1:AA:1374:A:P	2.42	0.42
1:AA:979:C:H2'	16:AN:19:ARG:HH12	1.84	0.42
36:DP:57:THR:O	36:DP:59:LEU:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:CP:12:LYS:HE3	18:CP:12:LYS:HB2	1.88	0.42
28:BE:86:PRO:HB2	28:BE:87:GLU:H	1.61	0.42
14:AL:16:LYS:HD3	14:AL:17:VAL:H	1.85	0.42
25:DA:1999:C:H1'	25:DA:2687:U:H1'	2.02	0.42
1:AA:1112:C:H42	5:AC:177:THR:HA	1.83	0.42
25:BA:1151:G:C6	25:BA:1152:C:C4	3.07	0.42
27:BD:25:THR:HG22	27:BD:82:ILE:O	2.19	0.42
39:DS:28:VAL:HG21	39:DS:87:PHE:CE1	2.54	0.42
55:B8:49:VAL:HG12	55:B8:50:LEU:H	1.83	0.42
28:BE:118:LYS:HE2	38:BR:2:ARG:CZ	2.49	0.42
25:BA:1658:C:OP1	28:BE:135:HIS:NE2	2.53	0.42
12:AJ:63:PHE:CZ	16:AN:45:ARG:HG3	2.50	0.42
25:DA:2072:G:C6	25:DA:2073:C:C4	3.07	0.42
49:D2:46:GLN:HA	49:D2:46:GLN:OE1	2.19	0.42
25:BA:1144:G:H2'	25:BA:1145:C:C6	2.54	0.42
34:BN:62:ARG:HA	34:BN:63:PRO:HD2	1.86	0.42
30:DG:47:LYS:HD3	30:DG:48:GLU:N	2.34	0.42
28:BE:151:TYR:HD2	28:BE:154:LYS:HZ2	1.67	0.42
32:BI:12:LEU:N	32:BI:12:LEU:HD22	2.34	0.42
1:CA:1148:U:H4'	11:CI:14:VAL:HG11	2.01	0.42
25:BA:1188:U:H4'	42:BV:79:VAL:HG13	2.01	0.42
24:AX:234:THR:HG21	25:BA:2452:C:H4'	2.01	0.42
25:DA:340:A:H2'	25:DA:341:G:O4'	2.19	0.42
1:CA:1054:C:H3'	1:CA:1054:C:O2	2.19	0.42
25:BA:1509:A:H4'	25:BA:1510:A:N9	2.34	0.42
28:DE:78:LEU:HD23	28:DE:78:LEU:N	2.34	0.42
19:AQ:59:ILE:HG22	19:AQ:71:PHE:HD1	1.85	0.42
1:CA:696:A:H8	1:CA:696:A:O5'	2.01	0.42
25:BA:1782:C:H2'	25:BA:2608:G:O2'	2.19	0.42
1:AA:624:C:H2'	1:AA:625:G:C8	2.54	0.42
35:DO:2:ILE:HD12	35:DO:2:ILE:N	2.34	0.42
1:AA:665:A:H2'	1:AA:725:G:H22	1.82	0.42
25:BA:677:A:C6	25:BA:678:C:C4	3.08	0.42
25:DA:1313:U:H4'	25:DA:1332:G:H4'	2.02	0.42
31:BH:158:HIS:HB2	31:BH:159:GLU:H	1.61	0.42
37:DQ:110:THR:HB	37:DQ:112:GLU:OE1	2.19	0.42
43:BW:75:TYR:CZ	43:BW:104:THR:HG21	2.55	0.42
35:DO:71:ARG:NH1	40:DT:74:ARG:HH22	2.16	0.42
25:DA:2529:G:O5'	25:DA:2529:G:C8	2.71	0.42
25:BA:2731:G:O2'	25:BA:2732:G:H5'	2.19	0.42
24:AX:225:SER:HB3	24:AX:253:GLN:HE22	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1917:U:H2'	25:BA:1918:A:H8	1.84	0.42
1:AA:918:A:H2'	1:AA:919:A:C8	2.54	0.42
25:BA:1919:A:O5'	25:BA:1919:A:C8	2.72	0.42
25:DA:355:G:H2'	25:DA:356:G:C8	2.54	0.42
1:CA:886:G:H2'	1:CA:887:G:O4'	2.19	0.42
2:AZ:21:A:O3'	2:AZ:22:G:H8	2.02	0.42
13:CK:94:ALA:O	13:CK:98:LEU:HG	2.18	0.42
2:CZ:21:A:O3'	2:CZ:22:G:H8	2.02	0.42
25:BA:2839:G:H2'	25:BA:2840:C:C6	2.53	0.42
23:AU:22:ARG:HA	23:AU:23:PRO:HD2	1.87	0.42
1:AA:1379:G:N1	1:AA:1380:U:C4	2.88	0.42
1:AA:1380:U:O2'	9:AG:3:ARG:HD3	2.19	0.42
29:BF:32:LEU:O	29:BF:36:VAL:HG23	2.19	0.42
25:BA:2864:G:H2'	25:BA:2865:U:O4'	2.18	0.42
1:AA:761:G:H2'	1:AA:762:C:C6	2.54	0.42
28:DE:11:MET:CB	28:DE:24:THR:HA	2.48	0.42
50:B3:10:LYS:CB	50:B3:53:LEU:HA	2.49	0.42
25:DA:2101:G:H2'	25:DA:2102:U:O4'	2.19	0.42
25:DA:187:G:C6	25:DA:188:G:C5	3.07	0.42
11:CI:75:ASP:O	11:CI:78:LYS:HB3	2.19	0.42
25:BA:2520:C:O2'	25:BA:2521:C:H5'	2.18	0.42
25:DA:947:G:H8	25:DA:947:G:O5'	2.02	0.42
36:DP:122:PRO:HA	36:DP:141:ALA:O	2.19	0.42
25:BA:979:G:C4	25:BA:982:C:N4	2.87	0.42
1:AA:416:G:O5'	1:AA:416:G:H8	2.02	0.42
25:DA:1029:A:C8	25:DA:1030:G:C8	3.07	0.42
25:BA:239:U:H2'	25:BA:240:G:O4'	2.19	0.42
6:AD:96:LEU:HD12	6:AD:139:ARG:HD2	2.01	0.42
1:AA:171:A:H2'	1:AA:172:A:C8	2.53	0.42
25:BA:2276:G:O3'	37:BQ:85:LYS:HB2	2.19	0.42
45:DY:12:THR:O	45:DY:75:ILE:HG22	2.20	0.42
41:BU:88:ILE:O	41:BU:88:ILE:HG13	2.18	0.42
1:AA:1371:G:C5	1:AA:1372:U:C5	3.08	0.42
32:BI:92:VAL:HG21	32:BI:97:ILE:HD11	2.02	0.42
25:BA:1496:A:O2'	25:BA:1497:U:H5''	2.20	0.42
40:BT:95:ARG:NH1	40:BT:95:ARG:CG	2.74	0.42
5:AC:23:TYR:CG	5:AC:24:ALA:N	2.88	0.42
15:AM:11:ARG:NH1	30:BG:146:TYR:HB3	2.34	0.42
1:CA:1353:G:C2	1:CA:1370:G:C2	3.08	0.42
4:AB:167:PRO:HG3	4:AB:188:ALA:HB2	2.01	0.42
1:CA:1343:G:H2'	1:CA:1344:C:C6	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BT:48:ILE:HG22	40:BT:49:VAL:N	2.33	0.42
25:DA:1998:G:H2'	25:DA:1999:C:H6	1.84	0.42
29:DF:7:TYR:O	29:DF:8:GLN:C	2.57	0.42
34:DN:90:LEU:O	34:DN:111:GLU:HG3	2.19	0.42
45:DY:39:VAL:HB	45:DY:40:GLU:H	1.58	0.42
9:AG:71:PRO:HD3	9:AG:103:TRP:HZ3	1.84	0.42
24:CX:48:ILE:O	24:CX:52:ARG:HG3	2.20	0.42
9:CG:15:ASP:HB3	9:CG:19:GLY:N	2.34	0.42
9:CG:22:LEU:HG	9:CG:62:PHE:HE2	1.84	0.42
25:BA:1549:C:H2'	25:BA:1550:C:C6	2.54	0.42
25:BA:1682:G:C6	25:BA:1683:C:C4	3.07	0.42
25:DA:1952:A:C5	25:DA:1953:A:C6	3.07	0.42
21:AS:62:ILE:HD12	21:AS:66:MET:HG3	2.01	0.42
25:DA:1550:C:H2'	25:DA:1551:C:C6	2.54	0.42
25:BA:638:G:C5	25:BA:651:G:C2	3.07	0.42
21:CS:62:ILE:HD12	21:CS:66:MET:HG3	2.00	0.42
21:CS:63:THR:H	21:CS:66:MET:CG	2.33	0.42
1:CA:377:G:O2'	1:CA:378:G:H5'	2.20	0.42
1:AA:832:C:N4	1:AA:855:G:O6	2.51	0.42
15:CM:91:ARG:NH1	21:CS:81:ARG:HH12	2.17	0.42
30:DG:38:VAL:HG12	30:DG:39:ILE:N	2.33	0.42
28:BE:171:GLU:HG2	28:BE:185:LYS:CG	2.49	0.42
25:DA:319:C:H2'	25:DA:320:A:O4'	2.19	0.42
25:DA:533:G:C6	25:DA:534:U:C4	3.07	0.42
13:CK:59:TYR:CZ	13:CK:63:LEU:HD11	2.55	0.42
5:AC:19:GLU:HG2	5:AC:40:ARG:HH22	1.84	0.42
1:CA:37:U:OP2	14:CL:122:LYS:HG3	2.19	0.42
29:DF:185:ASP:HA	29:DF:188:ARG:HB3	2.02	0.42
36:BP:9:ASN:N	36:BP:10:PRO:CD	2.81	0.42
36:BP:80:TYR:CZ	36:BP:111:ARG:HG2	2.54	0.42
1:CA:1367:C:O2'	12:CJ:48:THR:HG21	2.19	0.42
1:CA:1513:A:H2'	1:CA:1514:C:H6	1.83	0.42
25:BA:55:G:C2	25:BA:116:C:C2	3.07	0.42
39:BS:26:LEU:HD22	39:BS:28:VAL:HG22	2.01	0.42
39:BS:28:VAL:HG21	39:BS:87:PHE:CE1	2.54	0.42
4:AB:162:ILE:HD11	4:AB:184:VAL:HG13	2.01	0.42
25:DA:2022:U:O2'	25:DA:2617:C:H5'	2.20	0.42
25:BA:412:A:N7	25:BA:2411:A:H2	2.18	0.42
25:BA:380:U:H2'	25:BA:381:G:H8	1.85	0.42
1:CA:509:A:HO2'	1:CA:510:A:P	2.41	0.42
25:DA:2825:U:H6	25:DA:2825:U:O5'	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2825:U:O5'	25:BA:2825:U:H6	2.03	0.42
27:BD:72:LYS:HE3	27:BD:101:GLU:CB	2.49	0.42
25:DA:608:A:H2'	25:DA:609(A):A:C8	2.54	0.42
19:CQ:21:VAL:HG11	19:CQ:59:ILE:HD11	2.02	0.42
28:BE:13:ARG:O	40:BT:57:PHE:HE1	2.01	0.42
25:DA:463:G:C2	25:DA:467:G:C6	3.07	0.42
35:BO:2:ILE:N	35:BO:2:ILE:HD12	2.34	0.42
1:CA:272:C:H2'	1:CA:273:A:C8	2.54	0.42
25:BA:270(L):C:O2'	25:BA:270(M):U:H5''	2.18	0.42
35:DO:122:LEU:CD2	40:DT:74:ARG:HE	2.32	0.42
2:CY:4:G:C6	2:CY:70:G:C6	3.07	0.42
24:AX:109:VAL:HB	24:AX:160:PHE:HB3	2.00	0.42
25:DA:1314:C:H2'	25:DA:1315:C:H6	1.84	0.42
25:BA:621:A:H2'	25:BA:622:G:O4'	2.19	0.42
1:CA:667:G:H4'	17:CO:51:HIS:ND1	2.34	0.42
1:AA:564:C:H5'	19:AQ:32:TYR:CE2	2.54	0.42
50:D3:10:LYS:CB	50:D3:53:LEU:HA	2.49	0.42
6:CD:88:VAL:O	6:CD:92:VAL:HG23	2.20	0.42
1:AA:1110:A:H5''	1:AA:1111:A:OP2	2.20	0.42
25:BA:2339:G:H2'	25:BA:2340:G:C8	2.54	0.42
1:CA:63:C:H5''	1:CA:383:A:H61	1.84	0.42
30:BG:19:LEU:HD11	30:BG:172:LEU:HD13	2.02	0.42
50:D3:17:LYS:HD3	50:D3:17:LYS:C	2.39	0.42
1:AA:19:C:H2'	1:AA:20:U:C6	2.55	0.42
1:CA:876:G:H2'	1:CA:877:C:C6	2.55	0.42
4:CB:164:VAL:HG12	4:CB:165:VAL:N	2.34	0.42
13:CK:43:SER:HA	13:CK:47:VAL:HG11	2.02	0.42
45:BY:2:ARG:C	45:BY:4:LYS:H	2.22	0.42
1:CA:528:C:H41	14:CL:48:ASN:CG	2.23	0.42
17:CO:33:THR:HG21	17:CO:85:LEU:HD22	2.01	0.42
25:BA:1668:A:C4	25:BA:1674:G:N7	2.87	0.42
38:DR:9:LYS:O	38:DR:10:LEU:HG	2.18	0.42
25:DA:2593:U:H2'	25:DA:2594:C:C5	2.54	0.42
9:AG:65:ALA:O	9:AG:69:VAL:HG23	2.20	0.42
1:CA:1227:A:H2	1:CA:1228:C:C2	2.36	0.42
25:BA:1565:C:O5'	27:BD:21:PHE:HE1	2.03	0.42
27:BD:62:TYR:CG	27:BD:63:ARG:N	2.88	0.42
25:DA:886:C:C3'	25:DA:886:C:C6	3.02	0.42
25:DA:1144:G:H2'	25:DA:1145:C:C6	2.55	0.42
25:BA:204:A:OP1	25:BA:204:A:C8	2.64	0.42
25:BA:1771:C:O2'	25:BA:1786:A:H8	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BI:133:HIS:HD2	32:BI:135:GLU:HG2	1.85	0.42
53:B6:13:CYS:SG	53:B6:24:GLU:HG3	2.59	0.42
36:BP:69:GLY:O	36:BP:70:GLN:HB2	2.19	0.42
6:AD:102:ASP:HA	6:AD:121:VAL:HG21	2.01	0.42
7:CE:92:LYS:O	7:CE:118:ILE:HD12	2.19	0.42
25:BA:639:U:H2'	25:BA:640:C:C6	2.55	0.42
1:AA:832:C:HO2'	1:AA:833:U:H6	1.66	0.42
25:DA:1759:A:H4'	25:DA:2715:C:O4'	2.19	0.42
25:BA:2250:G:H8	25:BA:2496:C:H5''	1.85	0.42
25:BA:742:G:H2'	25:BA:743:G:C8	2.50	0.42
25:DA:2514:U:H2'	25:DA:2515:C:H6	1.81	0.42
23:AU:14:TRP:HE3	23:AU:15:ARG:HG2	1.80	0.42
25:DA:2694:G:C6	25:DA:2695:C:C4	3.08	0.42
29:BF:176:LEU:HD11	29:BF:180:GLY:HA3	2.00	0.42
25:BA:2243:U:H2'	25:BA:2244:U:C5	2.54	0.42
25:DA:216:A:N7	25:DA:432:A:C6	2.87	0.42
9:AG:70:LYS:HG3	9:AG:96:GLN:HB3	2.01	0.42
24:CX:128:PHE:CE2	24:CX:158:VAL:HG11	2.55	0.42
25:DA:1509:A:H4'	25:DA:1510:A:N9	2.34	0.42
1:CA:1077:G:N1	1:CA:1081:G:C6	2.88	0.42
1:CA:555:C:H2'	1:CA:556:C:C6	2.54	0.42
25:BA:1936:A:H5''	25:BA:1936:A:N3	2.34	0.42
40:DT:29:ARG:HA	40:DT:45:PHE:O	2.19	0.42
27:BD:72:LYS:HE3	27:BD:101:GLU:HG2	2.01	0.42
25:DA:273(B):G:C2	25:DA:364:C:C4	3.08	0.42
25:DA:2758:A:C2	25:DA:2759:G:H1'	2.54	0.42
37:DQ:16:ARG:HH12	25:DA:952:G:P	2.43	0.42
25:BA:123:G:H2'	25:BA:124:G:H8	1.84	0.42
25:BA:268:C:C2	25:BA:425:G:C2	3.08	0.42
37:BQ:110:THR:HB	37:BQ:112:GLU:OE1	2.20	0.42
7:CE:101:ILE:HD11	7:CE:119:LEU:HD22	2.01	0.42
25:DA:269:U:H1'	25:DA:424:G:N2	2.35	0.42
13:AK:23:ALA:HA	13:AK:28:THR:HG23	2.02	0.42
25:BA:1728:G:O5'	25:BA:1728:G:H8	2.01	0.42
41:DU:60:LEU:HD23	41:DU:60:LEU:C	2.40	0.42
1:CA:27:G:O5'	1:CA:27:G:H8	2.03	0.42
25:BA:2261:C:C6	47:B0:16:SER:HB3	2.54	0.42
1:AA:1196:U:H3'	1:AA:1197:G:C5'	2.49	0.42
25:BA:2493:U:C4	25:BA:2494:G:C8	3.07	0.42
1:CA:918:A:H2'	1:CA:919:A:C8	2.54	0.42
31:DH:63:SER:HA	25:DA:2748:A:O2'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:187:G:C6	25:BA:188:G:N7	2.88	0.42
19:AQ:3:LYS:HB3	19:AQ:60:ILE:HD11	2.01	0.42
50:D3:26:LEU:HD11	50:D3:46:ASN:HB3	2.01	0.42
25:BA:917:A:H5'	25:BA:2268:A:H61	1.84	0.42
36:BP:122:PRO:HA	36:BP:141:ALA:O	2.19	0.42
31:BH:111:HIS:HA	31:BH:112:PRO:HD2	1.86	0.42
1:CA:904:C:H2'	1:CA:905:U:O4'	2.19	0.42
9:AG:139:GLU:O	9:AG:143:ARG:HG3	2.20	0.42
25:DA:1798:U:C4	25:DA:1819:A:C2	3.08	0.42
25:BA:111:A:H2'	25:BA:112:U:O4'	2.19	0.42
27:BD:187:GLY:C	27:BD:189:CYS:H	2.21	0.42
25:DA:1649:G:H2'	25:DA:1650:G:H8	1.85	0.42
27:BD:40:THR:HG22	27:BD:41:GLY:N	2.34	0.42
25:BA:237:C:N3	25:BA:261:G:C2	2.87	0.42
25:BA:1394:U:H6	25:BA:1394:U:H3'	1.84	0.42
25:BA:876:C:H2'	25:BA:877:U:O4'	2.20	0.42
1:AA:1176:A:H2'	1:AA:1177:G:C8	2.55	0.42
24:CX:35:SER:HA	24:CX:38:TYR:HB2	2.00	0.42
25:DA:82:G:O2'	25:DA:83:G:H5'	2.19	0.42
18:AP:28:ARG:NH1	18:AP:28:ARG:CG	2.77	0.42
25:DA:1496:A:O2'	25:DA:1497:U:H5''	2.20	0.42
36:BP:58:THR:HG23	36:BP:61:ARG:HH21	1.84	0.42
51:D4:37:PRO:HA	51:D4:50:THR:O	2.18	0.42
20:CR:40:LEU:HA	20:CR:43:PHE:HD1	1.84	0.42
52:D5:4:HIS:HB3	25:DA:2577:A:H1'	2.02	0.42
36:DP:24:GLY:CA	36:DP:33:ARG:NH1	2.81	0.42
25:DA:570:G:H2'	25:DA:2030:A:N6	2.34	0.42
11:CI:69:GLY:O	11:CI:73:GLN:HG3	2.19	0.42
1:CA:1344:C:O2'	1:CA:1345:U:H5'	2.19	0.42
4:CB:167:PRO:HG3	4:CB:188:ALA:HB2	2.01	0.42
1:CA:673:G:H5''	8:CF:87:ARG:HH11	1.82	0.42
55:D8:54:GLU:HG2	55:D8:57:ARG:HH12	1.85	0.42
32:DI:128:LEU:HG	32:DI:142:VAL:HG21	2.01	0.42
1:CA:1103:C:H2'	1:CA:1104:G:C8	2.54	0.42
1:AA:685:G:O2'	1:AA:686:U:H5'	2.19	0.42
13:AK:21:ILE:HD13	13:AK:82:VAL:HG13	2.02	0.42
42:BV:17:GLY:HA2	42:BV:96:ILE:O	2.19	0.42
29:BF:117:ARG:HD2	29:BF:190:GLU:O	2.19	0.42
55:D8:8:LYS:HB3	55:D8:12:LYS:HE2	2.01	0.42
24:CX:50:GLU:O	24:CX:54:VAL:HG23	2.20	0.42
25:DA:2299:G:H2'	25:DA:2300:G:H8	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1275:A:C4	38:BR:16:HIS:CD2	3.08	0.42
25:BA:61:G:O2'	25:BA:62:C:H5'	2.20	0.42
55:B8:8:LYS:HB3	55:B8:12:LYS:HE2	2.02	0.42
25:DA:61:G:C6	25:DA:62:C:C4	3.08	0.42
38:BR:81:ASP:O	38:BR:85:PRO:HG2	2.20	0.42
1:CA:176:C:H2'	1:CA:177:C:H6	1.83	0.42
24:AX:181:GLN:HE21	24:AX:306:ASN:HD22	1.68	0.42
38:DR:81:ASP:O	38:DR:85:PRO:HG2	2.20	0.42
25:BA:2729:G:C2	25:BA:2730:C:C2	3.07	0.42
1:CA:453:A:C2	1:CA:454:C:C2	3.08	0.42
14:AL:37:THR:HG23	14:AL:38:VAL:N	2.34	0.42
29:DF:186:ILE:C	29:DF:188:ARG:H	2.22	0.42
35:BO:103:ALA:O	35:BO:106:LEU:HD13	2.19	0.42
17:CO:41:GLU:O	17:CO:44:LYS:HB2	2.19	0.42
1:AA:935:A:H2'	1:AA:936:C:H6	1.85	0.42
32:BI:57:ARG:O	32:BI:61:ARG:HG3	2.20	0.42
1:CA:356:A:H2'	1:CA:357:G:O4'	2.20	0.42
35:DO:66:LYS:HB2	35:DO:82:ASN:OD1	2.19	0.42
25:BA:1340:U:H3'	44:BX:57:LEU:HD23	1.99	0.42
19:CQ:58:GLU:HB2	19:CQ:74:LEU:HB3	2.02	0.42
1:CA:1201:A:H4'	1:CA:1202:G:C5'	2.50	0.42
25:DA:2795:G:H3'	25:DA:2797:U:C5'	2.50	0.42
1:AA:1529:G:H4'	1:AA:1530:G:OP2	2.20	0.42
31:BH:13:LYS:CA	31:BH:13:LYS:HE2	2.49	0.42
5:AC:91:LEU:HB3	5:AC:99:VAL:HG11	2.01	0.42
6:AD:30:LYS:C	6:AD:32:ALA:N	2.73	0.42
35:DO:88:ASN:O	35:DO:91:LEU:N	2.49	0.42
18:CP:27:LYS:HD2	18:CP:27:LYS:N	2.34	0.42
19:CQ:5:VAL:HA	19:CQ:59:ILE:O	2.20	0.42
1:AA:142:G:H2'	1:AA:143:A:C8	2.54	0.42
40:BT:29:ARG:HA	40:BT:45:PHE:O	2.19	0.42
4:AB:164:VAL:HG12	4:AB:165:VAL:N	2.35	0.42
29:BF:96:ASP:CG	29:BF:98:SER:H	2.22	0.42
22:AT:89:ARG:NH2	22:AT:104:LEU:HD22	2.34	0.42
1:CA:1150:U:H1'	1:CA:1280:A:N6	2.34	0.42
49:B2:6:VAL:HA	49:B2:9:GLN:OE1	2.19	0.42
25:DA:2173:A:H2'	25:DA:2174:C:O4'	2.19	0.42
25:BA:1769:G:C6	25:BA:1984:G:O6	2.73	0.42
25:BA:2077:A:C8	25:BA:2435:A:C4	3.08	0.42
1:AA:575:G:OP1	1:AA:575:G:H4'	2.19	0.42
25:BA:2748:A:O2'	31:BH:63:SER:HA	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:955:U:H2'	1:CA:956:U:H6	1.83	0.42
25:BA:2094:G:H5'	32:BI:25:TYR:CD2	2.54	0.42
41:BU:96:ALA:C	41:BU:98:LEU:H	2.23	0.42
18:CP:40:ASP:HA	18:CP:41:PRO:HD2	1.80	0.42
25:BA:273(D):C:H2'	25:BA:273(E):C:C6	2.54	0.42
1:AA:63:C:H5''	1:AA:383:A:H61	1.84	0.42
37:BQ:58:PHE:CD1	37:BQ:61:GLY:HA3	2.55	0.42
30:BG:120:LEU:N	30:BG:181:ARG:H	2.17	0.42
25:DA:1392:A:N6	25:DA:1393:A:H61	2.18	0.42
26:BB:37:C:H2'	39:BS:95:HIS:HE1	1.85	0.42
18:AP:6:LEU:HD23	18:AP:17:TYR:CG	2.54	0.42
1:AA:401:C:H2'	1:AA:402:G:C8	2.54	0.42
1:AA:141:A:H1'	1:AA:182:U:C2	2.55	0.42
18:AP:40:ASP:HA	18:AP:41:PRO:HD2	1.81	0.42
1:CA:978:A:H8	1:CA:978:A:H5''	1.84	0.42
7:AE:13:ILE:N	7:AE:13:ILE:HD12	2.35	0.42
5:CC:76:VAL:HG21	5:CC:103:VAL:HG11	2.00	0.42
25:DA:486:C:C2	25:DA:495:G:C2	3.07	0.42
29:DF:173:VAL:HG12	29:DF:174:VAL:N	2.35	0.42
25:BA:2276:G:H2'	25:BA:2277:G:H8	1.85	0.42
25:BA:1792:G:N2	25:BA:1827:C:O2	2.52	0.42
1:AA:1145:C:HO2'	1:AA:1146:A:P	2.43	0.42
41:DU:88:ILE:HG13	41:DU:88:ILE:O	2.19	0.42
41:DU:90:VAL:HG13	41:DU:91:ASP:N	2.26	0.42
25:BA:2015:A:H1'	52:B5:2:ALA:CA	2.35	0.42
18:AP:12:LYS:HB2	18:AP:12:LYS:HE3	1.88	0.42
25:BA:1495:A:H5'	25:BA:1496:A:OP2	2.20	0.42
24:AX:97:LEU:N	24:AX:98:PRO:HD3	2.35	0.42
30:BG:66:GLN:HG2	30:BG:67:LYS:N	2.29	0.42
1:CA:1370:G:O2'	1:CA:1371:G:H5'	2.20	0.42
10:CH:109:ILE:HG12	10:CH:110:ALA:N	2.35	0.42
21:CS:27:GLU:HB3	21:CS:28:LYS:H	1.63	0.42
25:BA:2850:A:H2	38:BR:61:HIS:CG	2.37	0.42
31:BH:117:PRO:HA	31:BH:118:PRO:HD2	1.88	0.42
8:CF:50:TYR:CE1	20:CR:77:GLY:HA2	2.54	0.42
28:DE:128:SER:HB2	25:DA:1675:C:N3	2.34	0.42
27:DD:72:LYS:HE2	27:DD:103:ARG:NH1	2.34	0.42
46:DZ:70:LEU:N	46:DZ:70:LEU:HD23	2.34	0.42
32:DI:142:VAL:HG12	32:DI:143:SER:H	1.83	0.42
41:DU:61:TRP:O	41:DU:65:ILE:HG13	2.20	0.42
39:DS:25:ARG:CG	39:DS:88:ASP:HB2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AD:158:ILE:O	6:AD:162:LEU:HG	2.19	0.42
13:AK:51:LYS:HB3	13:AK:51:LYS:HE2	1.88	0.42
25:DA:510:C:H2'	25:DA:511:U:O4'	2.19	0.42
1:CA:250:A:N3	1:CA:252:U:C4	2.88	0.42
24:AX:48:ILE:HA	24:AX:51:TYR:CE1	2.54	0.42
24:AX:49:ARG:HA	24:AX:52:ARG:HD2	2.02	0.42
1:CA:194:C:H5''	22:CT:65:LYS:HE2	2.02	0.42
35:DO:22:ILE:H	35:DO:41:ALA:HA	1.85	0.42
25:DA:1682:G:C6	25:DA:1683:C:C4	3.08	0.42
6:AD:11:LEU:HG	6:AD:11:LEU:H	1.63	0.42
36:DP:105:LEU:HB3	25:DA:626:U:N3	2.31	0.42
12:AJ:27:ALA:HA	12:AJ:81:THR:HG22	2.02	0.42
29:BF:12:LEU:HD13	29:BF:17:ARG:HG2	2.01	0.42
25:BA:468:G:OP2	54:B7:37:LYS:HE3	2.20	0.42
8:AF:47:ARG:NH1	8:AF:56:PRO:HB2	2.31	0.42
25:BA:747:U:OP1	52:B5:3:LYS:HD3	2.19	0.42
5:AC:86:VAL:O	5:AC:89:GLU:HB3	2.18	0.42
6:CD:9:CYS:HB3	6:CD:32:ALA:CB	2.50	0.42
25:BA:2090:G:C6	25:BA:2091:U:C4	3.07	0.42
25:BA:332:A:O2'	25:BA:333:G:P	2.78	0.42
4:AB:130:ARG:HA	4:AB:131:PRO:HD2	1.85	0.42
1:AA:1201:A:H4'	1:AA:1202:G:C5'	2.49	0.42
25:BA:330:A:O2'	25:BA:331:A:H8	2.01	0.42
1:CA:438:G:O5'	1:CA:438:G:H8	2.01	0.42
1:CA:142:G:H2'	1:CA:143:A:C8	2.54	0.42
25:DA:1919:A:O5'	25:DA:1919:A:C8	2.72	0.42
40:DT:100:TYR:HD2	40:DT:103:ARG:NE	2.16	0.42
25:DA:1331:A:C2'	25:DA:1332:G:H5''	2.49	0.42
11:AI:83:ARG:HA	11:AI:86:VAL:HG12	2.02	0.42
49:D2:6:VAL:HA	49:D2:9:GLN:OE1	2.19	0.42
25:BA:1458:C:H4'	25:BA:1459:G:C4	2.55	0.42
25:DA:268:C:C2	25:DA:425:G:C2	3.07	0.42
35:DO:122:LEU:OXT	35:DO:122:LEU:HD23	2.20	0.42
25:DA:854:G:H1	25:DA:923:C:H42	1.67	0.42
1:CA:955:U:H2'	1:CA:956:U:C6	2.55	0.42
1:AA:955:U:H2'	1:AA:956:U:C6	2.55	0.42
25:DA:2078:C:C4	25:DA:2079:U:C4	3.07	0.42
25:DA:122(A):C:H2'	25:DA:1222:C:H6	1.85	0.42
6:AD:156:GLU:O	6:AD:160:GLN:HG3	2.20	0.42
25:BA:356:G:H2'	25:BA:357:A:C8	2.54	0.42
25:BA:24:G:H1'	43:BW:77:ASP:OD1	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1649:G:N1	25:BA:2009:G:C6	2.88	0.42
25:DA:1630:G:H2'	25:DA:163(B):C:C6	2.55	0.42
47:B0:64:ASP:O	47:B0:83:PRO:HA	2.20	0.42
14:CL:26:LEU:C	14:CL:28:GLY:H	2.23	0.42
1:AA:667:G:H4'	17:AO:51:HIS:ND1	2.34	0.42
1:AA:876:G:H2'	1:AA:877:C:C6	2.55	0.42
37:DQ:58:PHE:CD1	37:DQ:58:PHE:O	2.73	0.42
1:CA:1483:A:H2	25:DA:1959:G:N3	2.17	0.42
27:DD:15:PHE:O	27:DD:17:THR:HG23	2.20	0.42
50:B3:55:ARG:HA	50:B3:55:ARG:HD3	1.76	0.42
1:AA:768:A:H5'	1:AA:1524:C:H1'	2.02	0.42
25:DA:2706:G:O5'	25:DA:2706:G:H8	2.02	0.42
53:D6:17:LYS:HD3	53:D6:17:LYS:HA	1.86	0.42
1:CA:533:A:OP1	1:CA:533:A:H3'	2.19	0.42
19:CQ:11:VAL:HG21	19:CQ:88:TYR:CG	2.54	0.42
35:BO:100:GLY:HA2	35:BO:101:PRO:HD3	1.95	0.42
27:DD:206:LEU:HD12	25:DA:1792:G:OP2	2.19	0.42
27:DD:52:ARG:HD3	25:DA:1824:G:OP1	2.19	0.42
44:DX:34:ALA:CB	44:DX:39:ILE:HD11	2.49	0.42
25:DA:141(A):A:H8	25:DA:1595:G:H21	1.68	0.42
25:DA:1692:U:O2'	25:DA:1693:U:H2'	2.19	0.42
36:BP:57:THR:O	36:BP:59:LEU:N	2.52	0.42
49:B2:14:ARG:HA	49:B2:17:SER:HB2	2.00	0.42
25:BA:1652:A:H2'	25:BA:1653:G:O4'	2.20	0.42
31:BH:35:VAL:HA	31:BH:36:PRO:HD2	1.78	0.42
46:DZ:11:GLU:OE1	46:DZ:11:GLU:HA	2.20	0.42
1:CA:1285:A:H4'	1:CA:1286:A:C5'	2.50	0.42
25:BA:1668:A:C5	25:BA:1674:G:C5	3.07	0.42
1:AA:1343:G:C6	1:AA:1344:C:N4	2.88	0.42
27:DD:72:LYS:HE3	27:DD:101:GLU:CB	2.50	0.42
1:AA:1112:C:C4	5:AC:178:LEU:HD23	2.54	0.42
45:BY:44:ILE:HG22	45:BY:45:VAL:N	2.35	0.42
1:AA:1500:A:OP2	1:AA:1505:G:OP2	2.38	0.42
25:DA:1151:G:C6	25:DA:1152:C:C4	3.07	0.42
6:CD:158:ILE:O	6:CD:162:LEU:HG	2.19	0.42
1:AA:735:C:H2'	1:AA:736:C:H6	1.82	0.42
1:AA:737:A:H2'	1:AA:738:C:C6	2.55	0.42
1:AA:67:C:H2'	1:AA:68:G:H8	1.82	0.42
1:AA:427:U:OP1	6:AD:13:ARG:NH2	2.53	0.42
24:CX:48:ILE:HA	24:CX:51:TYR:CE1	2.55	0.42
1:CA:1067:A:H1'	1:CA:1068:G:O4'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:812:C:H2'	25:BA:813:U:H6	1.85	0.42
25:DA:692:C:C2	25:DA:771:G:C2	3.07	0.42
9:AG:22:LEU:HG	9:AG:62:PHE:HE2	1.84	0.42
30:DG:134:GLY:C	30:DG:135:LEU:HD12	2.40	0.42
25:DA:1059:G:H3'	25:DA:1060:U:H2'	2.00	0.42
1:CA:1521:G:H2'	1:CA:1522:U:H6	1.83	0.42
46:BZ:59:LEU:HD11	46:BZ:88:PHE:CD2	2.55	0.42
1:CA:447:G:H2'	1:CA:485:G:N2	2.35	0.42
25:BA:64:A:H2'	25:BA:65:C:C6	2.54	0.42
25:BA:1021:A:C8	25:BA:1021:A:C3'	3.03	0.42
25:BA:1019:U:O2'	25:BA:1021:A:H2	2.02	0.42
25:BA:959:A:O2'	25:BA:960:A:H5'	2.20	0.42
25:DA:2515:C:H2'	25:DA:2516:G:C8	2.53	0.42
16:CN:14:PRO:HG2	16:CN:15:LYS:H	1.85	0.42
4:AB:22:LYS:HA	4:AB:22:LYS:NZ	2.34	0.42
4:CB:162:ILE:HD11	4:CB:184:VAL:HG13	2.01	0.42
30:BG:55:LYS:O	30:BG:58:GLN:HG2	2.20	0.42
1:AA:1300:G:O2'	1:AA:1301:U:OP2	2.36	0.42
25:BA:412:A:N3	25:BA:412:A:H2'	2.34	0.42
25:DA:602:G:N2	25:DA:656:G:C4	2.88	0.42
46:BZ:102:LEU:CD2	46:BZ:137:ILE:HB	2.50	0.42
28:DE:104:VAL:HA	28:DE:197:ILE:O	2.19	0.42
42:DV:79:VAL:HG13	25:DA:1188:U:H4'	2.01	0.42
25:BA:469:G:H2'	25:BA:470:A:H5''	2.01	0.42
1:AA:1063:C:H2'	1:AA:1064:G:N7	2.35	0.42
4:CB:133:LYS:O	4:CB:137:ARG:HG2	2.20	0.42
41:BU:25:TRP:O	41:BU:26:GLY:C	2.58	0.42
1:CA:186(B):C:H2'	1:CA:186(C):C:H6	1.84	0.42
2:AY:21:A:O2'	2:AY:22:G:H8	2.02	0.42
1:CA:192:U:H1'	22:CT:103:GLY:HA2	2.01	0.42
24:CX:180:VAL:CG1	24:CX:195:SER:HB2	2.49	0.42
1:AA:192:U:H1'	22:AT:103:GLY:HA2	2.02	0.42
39:BS:11:LYS:HD2	39:BS:91:PRO:HB3	2.02	0.42
42:DV:69:LYS:HA	42:DV:88:ARG:HB3	2.00	0.42
40:DT:68:TYR:HD2	40:DT:68:TYR:N	2.16	0.42
1:AA:27:G:H2'	1:AA:28:G:O4'	2.20	0.42
30:BG:107:LEU:HA	30:BG:111:LEU:HD12	2.02	0.42
21:AS:11:VAL:HG23	21:AS:38:SER:HB2	2.01	0.42
1:CA:6:G:H4'	1:CA:298:A:H4'	2.01	0.42
7:CE:17:ALA:HA	7:CE:26:PHE:HA	2.02	0.42
27:BD:106:ILE:HG13	27:BD:106:ILE:H	1.65	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:876:G:H2'	1:AA:877:C:H6	1.85	0.42
25:DA:2339:G:H2'	25:DA:2340:G:C8	2.54	0.42
25:BA:1709:U:H2'	25:BA:1710:C:C6	2.55	0.42
30:BG:105:LYS:HE3	51:B4:52:SER:HB2	2.02	0.42
42:BV:62:LEU:HB3	42:BV:93:GLU:HB2	2.02	0.42
41:DU:73:GLY:O	41:DU:74:LEU:HB3	2.19	0.42
25:BA:904:C:H2'	25:BA:905:U:H6	1.83	0.42
55:B8:37:SER:OG	55:B8:40:GLU:HG2	2.19	0.42
25:DA:1107:G:H2'	25:DA:1108:U:O4'	2.18	0.42
25:DA:1709:U:H2'	25:DA:1710:C:C6	2.55	0.42
25:DA:2471:C:H2'	25:DA:2472:G:O4'	2.20	0.42
1:AA:859:A:H2'	1:AA:860:A:O4'	2.20	0.42
23:CU:18:TYR:O	23:CU:22:ARG:HB3	2.20	0.42
25:BA:1853:A:H2'	25:BA:1854:A:C8	2.55	0.42
46:BZ:141:VAL:HA	46:BZ:144:LEU:HD23	2.01	0.42
1:AA:825:G:N2	10:AH:11:THR:HG21	2.35	0.42
1:AA:609:A:C5	1:AA:610:G:C8	3.08	0.42
25:BA:2810:A:H8	25:BA:2810:A:O5'	2.02	0.42
13:CK:15:ALA:HB1	13:CK:78:GLN:HB2	2.02	0.42
1:CA:882:C:O2'	1:CA:883:C:H5'	2.20	0.42
1:AA:1130:A:C2	1:AA:1146:A:C5	3.08	0.42
1:CA:1145:C:O2'	1:CA:1146:A:P	2.77	0.42
13:CK:29:ILE:HG22	13:CK:44:SER:HB2	2.01	0.42
6:CD:108:LEU:HD12	6:CD:108:LEU:HA	1.83	0.42
50:B3:8:LEU:HD13	50:B3:31:LEU:HD12	2.02	0.42
21:AS:6:LYS:HD2	21:AS:6:LYS:N	2.35	0.42
25:DA:1190:G:C8	25:DA:1190:G:C5'	2.99	0.42
5:CC:23:TYR:CG	5:CC:24:ALA:N	2.88	0.42
36:BP:24:GLY:CA	36:BP:33:ARG:NH1	2.82	0.42
25:DA:662:G:C2	25:DA:663:G:C5	3.08	0.42
28:DE:52:LEU:O	28:DE:76:ARG:N	2.53	0.42
24:CX:106:ASP:HA	24:CX:167:ALA:HB3	2.02	0.42
38:BR:9:LYS:O	38:BR:10:LEU:HG	2.19	0.42
25:BA:1478:G:O2'	25:BA:1558:A:C2	2.71	0.42
1:CA:1371:G:C5	1:CA:1372:U:C5	3.08	0.42
35:DO:60:ALA:HA	35:DO:87:ILE:CG1	2.46	0.42
43:DW:14:PRO:C	43:DW:18:ARG:HG3	2.40	0.42
25:DA:1023:U:O2'	25:DA:1122:G:H5''	2.19	0.42
25:DA:1771:C:O2'	25:DA:1786:A:H8	2.03	0.42
48:B1:73:LEU:HD23	48:B1:74:VAL:N	2.34	0.42
38:DR:16:HIS:CD2	25:DA:1275:A:C4	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AG:15:ASP:HB3	9:AG:19:GLY:N	2.34	0.42
25:BA:244:A:H2'	25:BA:245:G:O4'	2.19	0.42
25:DA:1441:G:N2	25:DA:1551:C:C2	2.88	0.42
34:DN:135:LEU:HD22	25:DA:558:G:C5'	2.50	0.42
25:DA:638:G:C6	25:DA:639:U:C4	3.07	0.42
25:BA:2515:C:H2'	25:BA:2516:G:C8	2.54	0.42
4:AB:22:LYS:HZ3	4:AB:22:LYS:H	1.67	0.42
1:AA:1367:C:O2'	12:AJ:48:THR:HG21	2.20	0.42
1:CA:261:U:H5	22:CT:79:ARG:NH1	2.18	0.42
25:DA:216:A:C8	25:DA:432:A:N6	2.88	0.42
27:DD:161:THR:O	27:DD:196:VAL:HG23	2.18	0.42
25:BA:2595:G:C2	25:BA:2599:G:C6	3.08	0.42
1:CA:1300:G:H4'	1:CA:1301:U:O5'	2.20	0.42
25:DA:2789:C:H1'	25:DA:2892:A:H2	1.82	0.42
6:CD:30:LYS:C	6:CD:32:ALA:N	2.72	0.42
1:AA:359:U:H2'	1:AA:360:A:H8	1.84	0.42
25:DA:469:G:H2'	25:DA:470:A:H5''	2.02	0.42
29:DF:64:ILE:HG23	29:DF:65:TRP:N	2.35	0.42
18:CP:27:LYS:HD3	18:CP:30:GLY:HA3	2.02	0.42
25:BA:2332:U:H4'	25:BA:2336:A:N6	2.34	0.42
1:CA:624:C:H2'	1:CA:625:G:C8	2.54	0.42
1:CA:665:A:C8	1:CA:725:G:C2	3.08	0.42
40:BT:100:TYR:HD2	40:BT:103:ARG:NE	2.17	0.42
2:CZ:33:U:H4'	9:CG:84:ASN:HD22	1.83	0.42
2:AY:17(A):U:H5''	2:AY:18:G:OP2	2.19	0.42
1:CA:955:U:H2'	1:CA:956:U:O4'	2.20	0.42
14:AL:26:LEU:C	14:AL:28:GLY:H	2.22	0.42
36:DP:81:GLN:HE21	36:DP:81:GLN:HB2	1.69	0.42
6:AD:81:GLU:O	6:AD:84:LYS:HB2	2.19	0.42
25:DA:1029:A:N3	25:DA:2486:G:H1'	2.34	0.42
37:DQ:58:PHE:CD1	37:DQ:61:GLY:HA3	2.55	0.42
25:DA:2520:C:O2'	25:DA:2521:C:H5'	2.19	0.42
10:AH:100:ILE:HA	10:AH:101:PRO:HD3	1.80	0.42
19:CQ:27:PHE:CZ	19:CQ:36:ILE:HD11	2.55	0.42
1:AA:721:G:C6	1:AA:733:A:C2	3.08	0.42
25:BA:2389:G:H5''	25:BA:2390:U:O4'	2.20	0.42
15:CM:77:ASN:O	15:CM:81:LEU:HG	2.19	0.42
1:CA:1176:A:H2'	1:CA:1177:G:C8	2.55	0.42
25:BA:2350:C:H5'	55:B8:42:ARG:HD3	2.02	0.42
43:DW:80:PRO:HD3	25:DA:25:U:H5''	2.02	0.42
25:DA:904:C:H2'	25:DA:905:U:H6	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:CT:37:SER:O	22:CT:41:VAL:HG23	2.20	0.42
25:BA:599:G:H2'	25:BA:600:G:H8	1.85	0.42
1:AA:882:C:O2'	1:AA:883:C:H5'	2.19	0.42
36:DP:149:GLU:HA	36:DP:149:GLU:OE1	2.20	0.42
25:DA:2810:A:H8	25:DA:2810:A:O5'	2.03	0.42
1:AA:1290:G:H2'	1:AA:1290:G:N3	2.35	0.42
41:BU:73:GLY:O	41:BU:74:LEU:HB3	2.20	0.42
25:DA:1215:G:C5	25:DA:1216:G:N7	2.88	0.42
24:AX:118:GLU:O	24:AX:121:ALA:HB3	2.20	0.42
25:DA:2276:G:H2'	25:DA:2277:G:H8	1.85	0.42
25:DA:2276:G:H2'	25:DA:2277:G:C8	2.55	0.42
25:BA:1792:G:OP2	27:BD:206:LEU:HD12	2.20	0.42
45:DY:90:LEU:HD23	45:DY:90:LEU:N	2.35	0.42
11:CI:63:ILE:HG21	11:CI:77:ILE:HG12	2.02	0.42
13:AK:43:SER:HA	13:AK:47:VAL:HG11	2.02	0.42
37:BQ:43:THR:O	37:BQ:47:ILE:HD12	2.20	0.42
46:BZ:24:LEU:HA	46:BZ:25:PRO:HD2	1.82	0.42
25:BA:2626:C:H42	25:BA:2777:G:H1	1.68	0.42
24:CX:340:LYS:O	24:CX:344:GLN:HG3	2.19	0.42
17:AO:56:LEU:HD21	25:BA:715:G:C2	2.55	0.42
17:CO:63:ARG:HH21	17:CO:87:ILE:CG2	2.30	0.42
25:BA:1999:C:H1'	25:BA:2687:U:H1'	2.01	0.42
14:CL:84:ILE:N	14:CL:84:ILE:HD12	2.35	0.42
36:DP:23:PRO:HB2	36:DP:33:ARG:CG	2.49	0.42
1:AA:1227:A:OP2	15:AM:111:LYS:HE3	2.19	0.42
1:CA:1369:C:H2'	1:CA:1370:G:C8	2.55	0.42
1:CA:1371:G:C6	1:CA:1372:U:C4	3.08	0.42
38:DR:10:LEU:HD22	38:DR:17:ARG:CD	2.43	0.42
22:AT:26:ASN:HB2	22:AT:71:THR:HG23	2.01	0.42
27:BD:35:LYS:HE3	27:BD:104:TYR:CB	2.49	0.42
1:AA:1054:C:O2	1:AA:1054:C:H3'	2.19	0.42
29:DF:117:ARG:HD2	29:DF:190:GLU:O	2.20	0.42
25:BA:245:G:H5''	36:BP:70:GLN:N	2.35	0.42
27:DD:154:LYS:HD3	25:DA:1818:U:O4	2.20	0.42
25:DA:1060:U:H4'	25:DA:1061:U:C3'	2.46	0.42
5:CC:19:GLU:HG3	5:CC:54:ARG:CD	2.47	0.42
29:BF:118:ALA:HB2	29:BF:123:LEU:HD22	2.00	0.42
25:DA:2887:U:H2'	25:DA:2888:C:C6	2.54	0.42
1:AA:707:C:H2'	1:AA:708:C:H6	1.85	0.42
1:AA:714:G:C6	1:AA:715:A:N1	2.88	0.42
26:DB:40:U:H1'	26:DB:45:A:H61	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DI:12:LEU:N	32:DI:12:LEU:HD22	2.34	0.42
30:BG:81:LYS:C	30:BG:82:LEU:HD23	2.40	0.42
40:BT:80:SER:HA	40:BT:81:PRO:HD3	1.85	0.42
35:DO:103:ALA:O	35:DO:106:LEU:HD13	2.19	0.42
29:BF:165:ARG:H	29:BF:165:ARG:HG2	1.71	0.42
25:BA:2816:C:H2'	25:BA:2817:G:H8	1.84	0.42
1:AA:551:U:H2'	1:AA:552:U:H6	1.82	0.42
1:CA:1073:U:H2'	1:CA:1074:G:H8	1.83	0.42
27:BD:72:LYS:HE2	27:BD:103:ARG:NH1	2.34	0.42
19:AQ:21:VAL:HG11	19:AQ:59:ILE:HD11	2.02	0.42
25:BA:791:C:N4	25:BA:794:G:H1'	2.34	0.42
37:DQ:24:GLY:HA2	37:DQ:100:GLY:C	2.40	0.42
25:DA:1728:G:H8	25:DA:1728:G:O5'	2.01	0.42
25:DA:1911:U:C2	25:DA:1918:A:C2	3.08	0.42
25:BA:449:A:N6	25:BA:450:G:C6	2.87	0.42
6:CD:81:GLU:O	6:CD:84:LYS:HB2	2.20	0.42
7:AE:17:ALA:HA	7:AE:26:PHE:HA	2.02	0.42
25:DA:1216:G:N1	25:DA:1234:U:C2	2.88	0.42
25:BA:2471:C:H2'	25:BA:2472:G:O4'	2.20	0.42
47:D0:64:ASP:O	47:D0:83:PRO:HA	2.19	0.42
25:DA:1324:G:H4'	25:DA:1616:A:C2	2.54	0.42
23:AU:24:ARG:HG3	23:AU:25:LYS:N	2.35	0.42
25:BA:271(C):G:C2	25:BA:421:U:C4	3.07	0.42
25:BA:1381:G:C6	25:BA:1382:G:C6	3.07	0.42
26:BB:114:G:H2'	26:BB:115:G:H8	1.85	0.42
25:BA:486:C:C2	25:BA:495:G:C2	3.08	0.42
25:DA:52:A:H2'	25:DA:53:A:O4'	2.20	0.42
5:AC:123:GLN:O	5:AC:128:PHE:HB2	2.20	0.42
25:DA:2394:C:H6	25:DA:2394:C:O5'	2.03	0.42
1:CA:318:G:H2'	1:CA:319:G:H8	1.85	0.42
45:BY:76:CYS:HB2	45:BY:96:ILE:HD13	2.02	0.41
44:BX:10:ALA:HA	44:BX:11:PRO:HD3	1.94	0.41
1:AA:1369:C:H2'	1:AA:1370:G:C8	2.55	0.41
11:AI:63:ILE:HG21	11:AI:77:ILE:HG12	2.02	0.41
7:CE:78:HIS:HD2	10:CH:104:ARG:HD2	1.85	0.41
17:AO:63:ARG:HH21	17:AO:87:ILE:CG2	2.32	0.41
18:CP:8:ARG:NH2	18:CP:15:PRO:HG3	2.35	0.41
5:CC:39:ILE:O	5:CC:43:LEU:HG	2.19	0.41
1:CA:243:A:C2	1:CA:246:A:C8	3.08	0.41
11:CI:79:LEU:HD22	11:CI:79:LEU:O	2.20	0.41
25:BA:443:A:H2'	29:BF:45:ARG:NH1	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CB:178:ARG:HH21	10:CH:74:PRO:HG3	1.83	0.41
39:DS:26:LEU:HD22	39:DS:28:VAL:HG22	2.02	0.41
1:CA:427:U:OP1	6:CD:13:ARG:NH2	2.54	0.41
1:CA:1067:A:O5'	1:CA:1067:A:H8	2.02	0.41
12:AJ:3:LYS:HD2	12:AJ:77:PRO:HD3	2.02	0.41
53:B6:18:ARG:HB3	53:B6:19:ARG:H	1.74	0.41
8:AF:80:ARG:HG2	8:AF:80:ARG:H	1.71	0.41
30:DG:110:ALA:O	30:DG:114:ILE:HG13	2.20	0.41
25:BA:1952:A:C5	35:BO:22:ILE:HD12	2.55	0.41
21:AS:75:ALA:HA	21:AS:76:PRO:HD2	1.82	0.41
25:DA:2073:C:H2'	25:DA:2074:U:H6	1.85	0.41
25:DA:61:G:O5'	25:DA:61:G:H8	2.02	0.41
29:BF:24:LEU:HB3	29:BF:115:ALA:HB2	2.02	0.41
32:BI:110:ASP:HA	32:BI:111:PRO:HD2	1.88	0.41
28:DE:110:GLY:CA	28:DE:162:ALA:HB2	2.50	0.41
22:AT:50:GLU:O	22:AT:54:LYS:HB2	2.20	0.41
25:BA:2513:G:H2'	25:BA:2514:U:C6	2.55	0.41
16:AN:43:CYS:O	16:AN:47:LEU:HG	2.20	0.41
25:DA:1272:A:OP2	25:DA:1647:G:OP1	2.38	0.41
8:CF:60:PHE:C	8:CF:61:LEU:HD12	2.40	0.41
10:CH:31:PHE:O	10:CH:35:ILE:HG12	2.21	0.41
1:CA:360:A:H2'	1:CA:361:G:C8	2.55	0.41
28:BE:5:LEU:HD22	28:BE:197:ILE:HG22	2.01	0.41
19:AQ:58:GLU:HB2	19:AQ:74:LEU:HB3	2.00	0.41
4:AB:133:LYS:O	4:AB:137:ARG:HG2	2.19	0.41
1:AA:815:A:C2	1:AA:1529:G:C4	3.07	0.41
7:AE:87:SER:HB3	7:AE:131:ILE:HD13	2.02	0.41
1:CA:374:A:C6	1:CA:375:U:C4	3.08	0.41
46:BZ:67:LEU:HA	46:BZ:68:PRO:HD2	1.85	0.41
25:BA:776:G:H4'	25:BA:777:A:O5'	2.20	0.41
25:DA:931:G:H8	25:DA:931:G:H3'	1.84	0.41
25:BA:268:C:H2'	25:BA:269:U:O4'	2.19	0.41
7:CE:31:LEU:HD23	7:CE:32:VAL:N	2.35	0.41
1:AA:186(G):C:H2'	1:AA:187:C:O4'	2.20	0.41
25:DA:1198:U:H2'	25:DA:1199:U:H6	1.85	0.41
25:BA:573:G:O2'	25:BA:574:C:H3'	2.20	0.41
23:AU:18:TYR:O	23:AU:22:ARG:HB3	2.19	0.41
47:B0:82:ARG:HA	47:B0:83:PRO:HD2	1.85	0.41
25:BA:2351:G:O5'	25:BA:2351:G:H8	2.03	0.41
1:AA:34:C:H2'	1:AA:35:G:C8	2.55	0.41
25:BA:1798:U:C4	25:BA:1819:A:C2	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:109:A:C6	1:AA:326:G:C6	3.08	0.41
25:DA:164:U:C4	25:DA:165:U:C4	3.07	0.41
1:CA:141:A:H1'	1:CA:182:U:C2	2.54	0.41
25:DA:1455:G:C6	25:DA:2705:A:C2	3.08	0.41
25:BA:827:U:O2	25:BA:2246:G:H4'	2.20	0.41
1:AA:1051:C:H2'	1:AA:1052:U:C6	2.55	0.41
48:D1:23:LYS:HE2	48:D1:23:LYS:HB3	1.91	0.41
19:AQ:27:PHE:CZ	19:AQ:36:ILE:HD11	2.55	0.41
1:AA:264:U:H2'	1:AA:265:G:O4'	2.20	0.41
25:DA:1120:G:C5	25:DA:1121:C:C4	3.07	0.41
12:CJ:7:LYS:HB2	12:CJ:97:GLU:O	2.20	0.41
44:DX:43:VAL:HG23	44:DX:47:PHE:HD1	1.84	0.41
25:BA:729:G:N3	25:BA:729:G:H2'	2.34	0.41
44:BX:43:VAL:HG23	44:BX:47:PHE:HD1	1.85	0.41
1:CA:1130:A:C2	1:CA:1146:A:C5	3.08	0.41
50:B3:8:LEU:CA	50:B3:54:VAL:HG12	2.37	0.41
5:CC:149:ALA:HA	5:CC:201:TYR:O	2.20	0.41
13:AK:29:ILE:HG22	13:AK:44:SER:HB2	2.02	0.41
1:AA:528:C:H41	14:AL:48:ASN:CG	2.24	0.41
18:AP:12:LYS:O	18:AP:13:HIS:HB2	2.18	0.41
49:D2:2:LYS:H	49:D2:2:LYS:HD2	1.85	0.41
5:AC:149:ALA:HA	5:AC:201:TYR:O	2.20	0.41
32:DI:92:VAL:HG21	32:DI:97:ILE:HD11	2.01	0.41
25:BA:809:G:O2'	25:BA:810:U:H5'	2.20	0.41
30:DG:94:LEU:HD12	30:DG:98:ARG:O	2.20	0.41
25:DA:729:G:N3	25:DA:729:G:H2'	2.34	0.41
25:BA:195:A:H61	25:BA:198:C:H3'	1.85	0.41
34:BN:92:GLN:O	34:BN:94:ILE:HG13	2.20	0.41
27:DD:25:THR:HG23	27:DD:27:THR:CG2	2.47	0.41
1:CA:17:U:O2'	1:CA:1079:G:H1'	2.19	0.41
1:AA:1499:A:C2	1:AA:1500:A:C8	3.08	0.41
1:CA:1505:G:C8	1:CA:1505:G:H5''	2.55	0.41
14:CL:16:LYS:HD3	14:CL:17:VAL:H	1.85	0.41
1:AA:738:C:C4	1:AA:739:C:N4	2.88	0.41
1:AA:68:G:C2	1:AA:69:G:C4	3.08	0.41
22:AT:61:SER:O	22:AT:65:LYS:HG2	2.20	0.41
25:DA:1817:G:C6	25:DA:1818:U:C4	3.09	0.41
35:BO:22:ILE:H	35:BO:41:ALA:HA	1.85	0.41
40:DT:41:ARG:CD	40:DT:42:ILE:H	2.31	0.41
14:CL:35:VAL:HG22	14:CL:81:VAL:HG12	2.02	0.41
9:AG:12:LEU:CD2	9:AG:12:LEU:H	2.30	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:284:U:H2'	25:DA:285:C:H6	1.84	0.41
25:DA:1980:G:C5'	25:DA:1980:G:C8	3.04	0.41
37:BQ:137:TYR:HB3	46:BZ:76:LEU:HD21	2.02	0.41
14:AL:83:LEU:CD1	14:AL:103:VAL:HG11	2.49	0.41
14:AL:35:VAL:HG22	14:AL:81:VAL:HG12	2.01	0.41
1:CA:716:A:C6	1:CA:717:C:C4	3.08	0.41
25:DA:2729:G:C2	25:DA:2730:C:C2	3.08	0.41
1:CA:707:C:H2'	1:CA:708:C:H6	1.85	0.41
25:BA:970:C:H6	25:BA:970:C:O5'	2.03	0.41
41:DU:33:ARG:O	41:DU:34:LYS:C	2.58	0.41
39:DS:93:LYS:HZ1	25:DA:2293:C:H4'	1.83	0.41
25:DA:1422:G:H4'	25:DA:1493:C:OP1	2.19	0.41
29:DF:169:ASN:HB2	25:DA:322:A:OP2	2.20	0.41
1:AA:643:C:H5'	10:AH:31:PHE:CD1	2.55	0.41
35:DO:64:ARG:HG2	35:DO:79:PHE:CE1	2.55	0.41
35:DO:64:ARG:O	35:DO:82:ASN:HA	2.20	0.41
28:BE:116:VAL:HG13	28:BE:117:MET:H	1.84	0.41
37:DQ:138:ASP:HB2	37:DQ:139:GLU:H	1.67	0.41
25:BA:2562:U:H1'	35:BO:23:ARG:NH1	2.35	0.41
1:CA:1529:G:H4'	1:CA:1530:G:OP2	2.20	0.41
1:CA:1081:G:H2'	1:CA:1082:G:H8	1.85	0.41
25:DA:2095:C:H2'	25:DA:2096:U:C6	2.55	0.41
28:DE:152:LYS:HE2	28:DE:152:LYS:HB3	1.93	0.41
4:AB:39:ILE:H	4:AB:39:ILE:HD12	1.85	0.41
25:DA:2099:U:H2'	25:DA:2100:G:C8	2.54	0.41
25:BA:2337:G:C2	25:BA:2338:G:C8	3.08	0.41
25:DA:2508:G:C4	25:DA:2509:G:C8	3.08	0.41
25:DA:273(A):G:C4	25:DA:273(B):G:C8	3.08	0.41
39:DS:90:GLY:O	39:DS:91:PRO:C	2.59	0.41
25:DA:2731:G:O2'	25:DA:2732:G:H5'	2.19	0.41
15:CM:106:ASN:HB2	15:CM:107:ALA:H	1.55	0.41
25:BA:1516:U:H2'	25:BA:1517:G:H8	1.84	0.41
1:CA:1263:C:H2'	1:CA:1264:C:C6	2.55	0.41
25:DA:262:A:H2'	25:DA:263:C:O4'	2.19	0.41
35:BO:122:LEU:OXT	35:BO:122:LEU:HD23	2.19	0.41
24:AX:108:ILE:O	24:AX:201:VAL:HA	2.20	0.41
30:DG:107:LEU:HA	30:DG:111:LEU:HD12	2.02	0.41
25:BA:25:U:H5'	43:BW:79:GLY:HA2	2.02	0.41
1:CA:92:G:C6	1:CA:93:U:N3	2.89	0.41
25:BA:2675:A:OP1	35:BO:31:LYS:HB2	2.20	0.41
13:AK:34:ASP:C	13:AK:36:ASP:H	2.24	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:D7:18:PHE:CE2	54:D7:22:MET:HG3	2.55	0.41
29:DF:116:ASP:OD2	36:DP:5:ASP:HB2	2.20	0.41
24:AX:131:TYR:HE1	24:AX:174:GLU:HG3	1.83	0.41
26:BB:14:U:H1'	26:BB:107:U:H1'	2.02	0.41
25:DA:1783:A:C2	25:DA:2587:A:C5	3.08	0.41
25:BA:122(A):C:H2'	25:BA:1222:C:H6	1.85	0.41
1:CA:424:G:O5'	1:CA:424:G:H8	2.03	0.41
25:BA:2751:G:H2'	25:BA:2751:G:N3	2.35	0.41
25:BA:2394:C:H6	25:BA:2394:C:O5'	2.03	0.41
25:DA:1992:G:H8	25:DA:1992:G:OP1	2.02	0.41
39:DS:48:LEU:HD12	39:DS:48:LEU:N	2.35	0.41
25:DA:301:G:H5'	25:DA:334:C:O2'	2.20	0.41
25:DA:593:G:C6	25:DA:594:U:C4	3.08	0.41
41:BU:95:LEU:HD13	42:BV:4:ILE:HD12	2.02	0.41
1:AA:1285:A:H4'	1:AA:1286:A:C5'	2.51	0.41
1:AA:1371:G:C6	1:AA:1372:U:C4	3.08	0.41
48:B1:11:ARG:HH11	48:B1:60:PHE:HA	1.85	0.41
46:BZ:77:ASP:HB2	46:BZ:84:GLU:CG	2.37	0.41
14:CL:54:VAL:HG12	14:CL:55:ALA:H	1.85	0.41
24:CX:96:LEU:O	24:CX:96:LEU:HD13	2.21	0.41
30:BG:75:LYS:HB3	30:BG:76:SER:H	1.52	0.41
17:AO:33:THR:HA	17:AO:63:ARG:NH1	2.21	0.41
25:DA:2488:A:H2'	25:DA:2489:G:O4'	2.20	0.41
5:AC:21:ARG:HG3	5:AC:58:GLU:HG2	2.03	0.41
1:AA:1432:G:OP1	40:BT:107:ASP:HB2	2.19	0.41
38:BR:10:LEU:HB2	38:BR:17:ARG:NE	2.34	0.41
51:B4:59:VAL:HG12	51:B4:60:GLU:N	2.28	0.41
27:DD:80:ALA:HB3	27:DD:96:HIS:HD1	1.84	0.41
1:CA:1432:G:OP1	40:DT:108:ARG:HG3	2.20	0.41
5:AC:111:LEU:HD23	5:AC:141:VAL:HG13	2.01	0.41
25:DA:1019:U:H3	25:DA:114(B):A:H62	1.68	0.41
34:DN:92:GLN:O	34:DN:94:ILE:HG13	2.20	0.41
1:AA:698:G:C6	1:AA:699:C:C4	3.08	0.41
37:DQ:127:ILE:HG22	37:DQ:128:LYS:O	2.20	0.41
29:DF:117:ARG:NH2	29:DF:187:VAL:HA	2.32	0.41
25:DA:582:G:C2	25:DA:1259:G:C2	3.07	0.41
25:BA:270(S):G:O2'	25:BA:270(T):G:H8	2.03	0.41
25:DA:1357:U:H2'	25:DA:1358:G:O4'	2.20	0.41
45:DY:95:LYS:HG2	45:DY:100:ALA:HA	2.01	0.41
25:DA:2054:A:C2	25:DA:2616:C:C2	3.08	0.41
29:DF:12:LEU:HD13	29:DF:17:ARG:HG2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:782:A:H4'	25:DA:783:A:O5'	2.20	0.41
37:DQ:13:GLN:HB2	25:DA:910:A:C8	2.56	0.41
25:DA:2170:A:H8	25:DA:2170:A:O5'	2.03	0.41
38:DR:24:GLN:O	38:DR:28:LEU:HB2	2.20	0.41
36:DP:29:LYS:HD2	36:DP:29:LYS:N	2.35	0.41
26:BB:40:U:H1'	26:BB:45:A:H61	1.82	0.41
35:BO:34:THR:O	35:BO:35:VAL:C	2.59	0.41
25:DA:2114:A:H3'	25:DA:2115:G:C8	2.56	0.41
25:BA:530:G:C6	25:BA:2022:U:H5''	2.55	0.41
27:DD:76:PRO:HA	27:DD:118:VAL:HG23	2.02	0.41
37:BQ:138:ASP:HB2	37:BQ:139:GLU:H	1.68	0.41
1:CA:359:U:H2'	1:CA:360:A:C8	2.55	0.41
2:AY:51:C:H2'	2:AY:52:G:C8	2.55	0.41
1:CA:1054:C:C2'	1:CA:1055:A:H5''	2.51	0.41
1:CA:1080:A:H5''	7:CE:16:THR:HG21	2.01	0.41
25:BA:1599:C:OP2	44:BX:36:LYS:HD3	2.21	0.41
22:CT:89:ARG:NH2	22:CT:104:LEU:HD22	2.35	0.41
18:CP:26:ARG:HB3	18:CP:27:LYS:H	1.67	0.41
43:BW:20:VAL:O	43:BW:23:LEU:HB2	2.20	0.41
37:BQ:24:GLY:HA2	37:BQ:100:GLY:C	2.40	0.41
41:BU:8:VAL:HG12	41:BU:12:ARG:HG3	2.02	0.41
25:DA:2476:A:N3	25:DA:2476:A:H3'	2.36	0.41
25:DA:2536:G:C5	25:DA:2537:U:C4	3.08	0.41
1:CA:1196:U:H3'	1:CA:1197:G:C5'	2.50	0.41
25:BA:78:A:H2'	25:BA:79:G:H8	1.85	0.41
1:AA:955:U:H2'	1:AA:956:U:O4'	2.20	0.41
17:CO:54:ARG:NH1	17:CO:58:MET:SD	2.93	0.41
1:CA:564:C:H5'	19:CQ:32:TYR:CE2	2.54	0.41
1:CA:19:C:H2'	1:CA:20:U:C6	2.55	0.41
25:BA:1297:C:OP1	25:BA:2710:C:H4'	2.21	0.41
1:AA:1011:G:C5	1:AA:1012:U:C4	3.09	0.41
12:CJ:18:ALA:O	12:CJ:22:LYS:HB2	2.21	0.41
41:DU:96:ALA:C	41:DU:98:LEU:H	2.22	0.41
2:CY:72:A:C6	2:CY:73:A:C6	3.08	0.41
1:AA:533:A:OP1	1:AA:533:A:H3'	2.20	0.41
44:BX:82:GLN:O	44:BX:82:GLN:HG3	2.20	0.41
25:DA:2751:G:H2'	25:DA:2751:G:N3	2.35	0.41
1:AA:1037:C:H6	1:AA:1037:C:O5'	2.03	0.41
44:DX:82:GLN:O	44:DX:82:GLN:HG3	2.20	0.41
25:BA:2093:G:C6	25:BA:2225:A:C8	3.09	0.41
28:DE:120:TRP:CD1	28:DE:155:LYS:HB3	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DX:44:GLU:HA	44:DX:49:VAL:O	2.21	0.41
48:B1:19:GLN:NE2	48:B1:41:ARG:HE	2.18	0.41
11:AI:73:GLN:O	11:AI:77:ILE:HG13	2.21	0.41
25:BA:1540:G:N1	25:BA:1541:U:H1'	2.35	0.41
11:CI:17:VAL:HG13	11:CI:63:ILE:HD11	2.03	0.41
13:CK:44:SER:OG	13:CK:47:VAL:HG23	2.20	0.41
25:BA:2015:A:N3	52:B5:2:ALA:N	2.68	0.41
14:AL:54:VAL:HG12	14:AL:55:ALA:H	1.84	0.41
36:DP:58:THR:C	36:DP:60:MET:H	2.24	0.41
25:BA:2488:A:H2'	25:BA:2489:G:O4'	2.20	0.41
1:CA:1347:G:H22	1:CA:1374:A:P	2.43	0.41
11:AI:79:LEU:O	11:AI:79:LEU:HD22	2.20	0.41
1:CA:1343:G:C6	1:CA:1344:C:N4	2.88	0.41
25:BA:681:G:H2'	25:BA:682:G:C8	2.56	0.41
26:BB:8:U:H5''	39:BS:15:ARG:NH2	2.29	0.41
34:DN:92:GLN:HE21	25:DA:1022:G:H8	1.69	0.41
55:B8:54:GLU:HG2	55:B8:57:ARG:HH12	1.85	0.41
1:CA:68:G:H2'	1:CA:69:G:C8	2.56	0.41
14:CL:76:LEU:HD11	14:CL:106:ALA:HA	2.02	0.41
25:BA:2399:G:C6	25:BA:2400:G:C5	3.07	0.41
25:DA:833:U:H2'	25:DA:834:C:H6	1.79	0.41
25:BA:510:C:H2'	25:BA:511:U:O4'	2.20	0.41
28:DE:103:ASP:OD2	28:DE:201:THR:HA	2.20	0.41
34:DN:116:THR:HG23	34:DN:117:HIS:N	2.33	0.41
34:DN:117:HIS:HA	34:DN:118:PRO:HD2	1.80	0.41
34:BN:117:HIS:HA	34:BN:118:PRO:HD2	1.79	0.41
25:BA:2694:G:C6	25:BA:2695:C:C4	3.08	0.41
1:CA:714:G:N2	1:CA:777:A:H1'	2.35	0.41
4:AB:20:GLU:HB2	4:AB:190:THR:HB	2.03	0.41
4:AB:19:HIS:CD2	4:AB:20:GLU:N	2.87	0.41
25:DA:2250:G:H8	25:DA:2496:C:H5''	1.85	0.41
25:DA:412:A:N7	25:DA:2411:A:H2	2.17	0.41
8:AF:17:SER:O	8:AF:21:LEU:HD23	2.21	0.41
25:DA:1014:U:H2'	25:DA:1015:G:H8	1.85	0.41
35:BO:64:ARG:HG2	35:BO:79:PHE:CE1	2.55	0.41
32:DI:79:ILE:HG22	32:DI:81:VAL:CG2	2.51	0.41
25:DA:310:A:HO2'	25:DA:311:A:P	2.43	0.41
29:DF:164:ARG:NH2	29:DF:177:ALA:HA	2.36	0.41
41:DU:79:PHE:HE2	41:DU:106:PHE:CZ	2.39	0.41
25:DA:1945:G:C4	25:DA:1946:U:C5	3.08	0.41
19:AQ:5:VAL:HA	19:AQ:59:ILE:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:123:G:H2'	25:DA:124:G:H8	1.85	0.41
25:DA:1453:A:H62	25:DA:2703:C:H41	1.67	0.41
25:DA:2332:U:H4'	25:DA:2336:A:N6	2.35	0.41
25:BA:123:G:H2'	25:BA:124:G:C8	2.56	0.41
7:CE:45:PHE:CD2	7:CE:47:LYS:HD2	2.55	0.41
49:D2:6:VAL:HA	49:D2:9:GLN:CD	2.40	0.41
4:CB:113:HIS:O	4:CB:116:GLU:HG2	2.20	0.41
12:CJ:25:GLU:O	12:CJ:29:ARG:HB3	2.20	0.41
28:DE:176:ILE:HA	28:DE:177:PRO:HD2	1.84	0.41
1:AA:1197:G:C2	1:AA:1198:G:C8	3.08	0.41
25:DA:78:A:H2'	25:DA:79:G:H8	1.86	0.41
24:CX:108:ILE:HA	24:CX:160:PHE:O	2.19	0.41
29:DF:85:GLY:HA2	25:DA:449:A:OP1	2.21	0.41
41:DU:11:ARG:HH12	25:DA:29:U:H1'	1.85	0.41
1:CA:1414:U:H2'	1:CA:1415:G:H8	1.86	0.41
6:CD:175:SER:OG	6:CD:184:LYS:HB2	2.21	0.41
1:AA:1109:C:H2'	1:AA:1110:A:O4'	2.20	0.41
1:AA:632:A:H2'	1:AA:633:G:O4'	2.20	0.41
1:AA:544:G:C6	1:AA:545:C:C4	3.09	0.41
25:BA:2836:U:C4	25:BA:2883:A:N6	2.88	0.41
25:BA:802:A:C5	25:BA:803:U:C4	3.07	0.41
25:DA:2082:A:H2'	25:DA:2083:G:O4'	2.20	0.41
25:DA:893:C:H2'	25:DA:894:C:C6	2.55	0.41
6:CD:96:LEU:HD12	6:CD:139:ARG:HD2	2.01	0.41
1:AA:670:G:H2'	1:AA:671:G:O4'	2.20	0.41
37:BQ:77:LYS:HA	37:BQ:78:PRO:HD3	1.78	0.41
15:AM:40:ASN:HA	15:AM:41:PRO:HD3	1.96	0.41
1:CA:1110:A:H5''	1:CA:1111:A:OP2	2.20	0.41
16:AN:52:GLN:O	16:AN:53:LEU:HD23	2.20	0.41
34:DN:38:LEU:O	34:DN:159:GLU:HA	2.20	0.41
1:CA:670:G:H2'	1:CA:671:G:O4'	2.21	0.41
15:AM:115:LYS:HD3	15:AM:115:LYS:N	2.36	0.41
25:DA:1394:U:H3'	25:DA:1394:U:H6	1.85	0.41
53:B6:42:TRP:HA	53:B6:42:TRP:CE3	2.55	0.41
25:DA:2355:C:O5'	25:DA:2355:C:H6	2.04	0.41
11:AI:112:LYS:C	11:AI:112:LYS:HD3	2.40	0.41
36:BP:149:GLU:HA	36:BP:149:GLU:OE1	2.20	0.41
48:B1:40:ARG:HD3	48:B1:40:ARG:C	2.41	0.41
1:AA:801:U:H2'	1:AA:802:A:C8	2.55	0.41
25:BA:1064:C:H2'	25:BA:1065:U:O4'	2.20	0.41
26:DB:62:C:H2'	26:DB:63:G:H8	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:107:THR:O	28:BE:190:GLY:HA2	2.20	0.41
1:CA:825:G:N2	10:CH:11:THR:HG21	2.36	0.41
28:DE:37:ARG:HH12	25:DA:2783:G:H22	1.66	0.41
27:BD:16:MET:HG3	27:BD:206:LEU:O	2.20	0.41
11:AI:10:ARG:HD3	11:AI:11:LYS:N	2.36	0.41
48:D1:13:ILE:HG23	48:D1:14:VAL:N	2.36	0.41
32:DI:92:VAL:HG23	32:DI:96:ASP:HB2	2.03	0.41
40:BT:50:ILE:HD13	40:BT:64:ARG:H	1.86	0.41
25:BA:141(A):A:H8	25:BA:1595:G:H21	1.67	0.41
1:CA:243:A:H4'	1:CA:244:U:O5'	2.19	0.41
28:BE:50:GLY:HA3	28:BE:75:VAL:HG11	2.03	0.41
28:BE:52:LEU:O	28:BE:76:ARG:N	2.53	0.41
36:DP:35:HIS:HB3	25:DA:941:A:O2'	2.19	0.41
1:AA:1511:G:C6	1:AA:1512:U:N3	2.88	0.41
51:B4:43:GLY:N	51:B4:60:GLU:HA	2.36	0.41
21:CS:49:ILE:N	21:CS:49:ILE:HD12	2.35	0.41
55:D8:49:VAL:HG12	55:D8:50:LEU:H	1.83	0.41
27:BD:25:THR:HG23	27:BD:27:THR:CG2	2.47	0.41
1:AA:1081:G:H2'	1:AA:1082:G:H8	1.85	0.41
1:CA:738:C:C4	1:CA:739:C:N4	2.88	0.41
39:DS:25:ARG:HH22	26:DB:9:G:H5'	1.86	0.41
20:AR:44:LEU:HD11	20:AR:70:ILE:HD12	2.03	0.41
24:AX:48:ILE:O	24:AX:52:ARG:HG3	2.20	0.41
28:DE:132:HIS:HB3	25:DA:1658:C:OP1	2.21	0.41
27:DD:88:ARG:NH2	25:DA:1817:G:OP1	2.52	0.41
40:BT:32:TYR:O	40:BT:42:ILE:HA	2.21	0.41
25:BA:1357:U:H2'	25:BA:1358:G:O4'	2.21	0.41
25:DA:1419:A:HO2'	25:DA:1420:U:H5''	1.86	0.41
24:AX:274:LEU:CD1	24:AX:278:ARG:HE	2.31	0.41
21:CS:63:THR:HG22	21:CS:66:MET:HG2	2.03	0.41
1:AA:146:G:H1	1:AA:177:C:N4	2.18	0.41
1:CA:579:G:H2'	1:CA:580:U:C6	2.56	0.41
41:DU:49:HIS:ND1	25:DA:559:G:N2	2.68	0.41
40:DT:117:ASP:O	40:DT:121:ILE:HG13	2.20	0.41
25:DA:722:A:H2'	25:DA:723:G:C8	2.56	0.41
1:CA:502:G:C6	1:CA:503:C:C4	3.08	0.41
25:DA:954:G:H1'	25:DA:2274:A:N1	2.35	0.41
29:BF:31:HIS:O	29:BF:34:TRP:HB3	2.20	0.41
25:DA:617:G:C2	25:DA:618(A):G:C4	3.09	0.41
25:BA:2244:U:H6	25:BA:2244:U:O5'	2.02	0.41
30:DG:95:ARG:CZ	26:DB:45:A:H1'	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CB:20:GLU:HB2	4:CB:190:THR:HB	2.02	0.41
27:BD:76:PRO:HA	27:BD:118:VAL:HG23	2.03	0.41
1:AA:1301:U:H3'	1:AA:1302:U:C5'	2.50	0.41
1:AA:1095:U:H2'	1:AA:1096:C:H6	1.82	0.41
16:AN:14:PRO:HG2	16:AN:15:LYS:H	1.84	0.41
1:AA:1417:G:C6	1:AA:1482:G:C6	3.08	0.41
1:CA:1063:C:H2'	1:CA:1064:G:N7	2.35	0.41
36:DP:26:GLY:HA2	36:DP:30:THR:CG2	2.50	0.41
46:DZ:146:ILE:HG22	46:DZ:174:VAL:HG12	2.03	0.41
25:DA:2818:G:H5'	25:DA:2837:G:H1'	2.02	0.41
25:BA:608:A:H2'	25:BA:609(A):A:C8	2.55	0.41
1:AA:374:A:C2	1:AA:375:U:C2	3.09	0.41
2:AY:25:C:H2'	2:AY:26:G:O4'	2.20	0.41
43:DW:28:SER:HB3	43:DW:31:GLU:HB2	2.02	0.41
25:DA:2337:G:C2	25:DA:2338:G:C8	3.08	0.41
36:BP:132:LYS:HD2	36:BP:132:LYS:N	2.36	0.41
25:BA:823:G:C6	25:BA:824:A:C6	3.08	0.41
1:CA:115:G:H1'	1:CA:116:A:N7	2.35	0.41
25:BA:1198:U:H2'	25:BA:1199:U:H6	1.84	0.41
1:AA:1061:G:C6	1:AA:1197:G:C6	3.09	0.41
1:AA:786:G:C2	1:AA:797:C:C2	3.08	0.41
1:AA:823:G:H2'	1:AA:824:C:H6	1.86	0.41
25:BA:2122:U:H2'	25:BA:2123:G:O4'	2.19	0.41
14:AL:26:LEU:HB3	14:AL:27:LYS:H	1.61	0.41
18:AP:27:LYS:HD3	18:AP:30:GLY:HA3	2.02	0.41
19:CQ:3:LYS:HB3	19:CQ:60:ILE:HD11	2.02	0.41
25:BA:355:G:H2'	25:BA:356:G:C8	2.56	0.41
26:BB:115:G:H5'	39:BS:50:SER:OG	2.20	0.41
16:CN:52:GLN:O	16:CN:53:LEU:HD23	2.20	0.41
29:BF:66:PRO:O	29:BF:68:LYS:HG2	2.20	0.41
1:AA:601:C:H2'	1:AA:602:A:H8	1.86	0.41
25:DA:978:G:C2	25:DA:986:C:C2	3.08	0.41
1:AA:1108:G:H5'	5:AC:176:HIS:CD2	2.56	0.41
1:AA:567:G:H2'	1:AA:568:G:O4'	2.20	0.41
27:DD:175:LEU:HD12	27:DD:185:VAL:HG21	2.03	0.41
1:CA:264:U:H2'	1:CA:265:G:O4'	2.20	0.41
15:AM:77:ASN:O	15:AM:81:LEU:HG	2.20	0.41
25:BA:46:C:OP2	25:BA:215:G:H2'	2.19	0.41
39:BS:52:SER:HB2	39:BS:56:LEU:HB2	2.02	0.41
5:AC:3:ASN:HB2	5:AC:4:LYS:H	1.75	0.41
25:BA:1455:G:C6	25:BA:2705:A:C2	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CX:26:LYS:N	24:CX:26:LYS:HD2	2.36	0.41
39:BS:48:LEU:N	39:BS:48:LEU:HD12	2.36	0.41
11:CI:112:LYS:C	11:CI:112:LYS:HD3	2.41	0.41
29:BF:179:GLU:CD	29:BF:179:GLU:H	2.23	0.41
24:AX:100:ASP:HA	24:AX:101:PRO:HD2	1.87	0.41
39:DS:52:SER:HB2	39:DS:56:LEU:HB2	2.01	0.41
1:CA:1051:C:H2'	1:CA:1052:U:C6	2.55	0.41
1:AA:1144:G:H21	1:AA:1146:A:N6	2.15	0.41
41:DU:95:LEU:HD13	42:DV:4:ILE:HD12	2.03	0.41
48:B1:45:ASN:C	48:B1:45:ASN:ND2	2.71	0.41
4:CB:185:ILE:HA	4:CB:199:TYR:O	2.20	0.41
29:DF:81:PRO:C	29:DF:83:PHE:H	2.24	0.41
14:CL:119:TYR:CD1	14:CL:119:TYR:N	2.89	0.41
25:DA:2681:C:C5	25:DA:2724:C:N4	2.89	0.41
17:CO:56:LEU:O	17:CO:60:VAL:HG23	2.20	0.41
18:CP:8:ARG:HB3	18:CP:28:ARG:HH12	1.85	0.41
25:DA:672:C:C2	25:DA:809:G:N2	2.89	0.41
25:DA:2010:G:C5	25:DA:2011:U:C5	3.08	0.41
28:BE:51:PHE:HB3	28:BE:52:LEU:H	1.67	0.41
25:DA:682:G:H2'	25:DA:683:C:H6	1.86	0.41
21:CS:29:ARG:O	21:CS:31:ILE:HG22	2.20	0.41
5:CC:182:ILE:HA	5:CC:202:ILE:O	2.21	0.41
46:DZ:71:VAL:HA	46:DZ:87:ASP:O	2.21	0.41
46:BZ:71:VAL:HA	46:BZ:87:ASP:O	2.20	0.41
24:CX:49:ARG:HA	24:CX:52:ARG:HD2	2.02	0.41
25:BA:1441:G:H2'	25:BA:1442:G:C8	2.54	0.41
34:DN:78:VAL:O	34:DN:79:ASN:HB2	2.20	0.41
25:BA:558:G:C5'	34:BN:135:LEU:HD22	2.51	0.41
43:DW:9:TYR:H	43:DW:102:HIS:CD2	2.39	0.41
43:BW:9:TYR:H	43:BW:102:HIS:CD2	2.38	0.41
21:CS:44:MET:HA	21:CS:44:MET:HE2	2.02	0.41
25:BA:559:G:N2	41:BU:49:HIS:ND1	2.69	0.41
25:BA:2335:A:H8	39:BS:13:ARG:NH2	2.17	0.41
47:B0:31:VAL:HG22	47:B0:65:GLY:O	2.21	0.41
29:BF:185:ASP:HA	29:BF:188:ARG:HB3	2.02	0.41
54:D7:37:LYS:HE3	25:DA:468:G:OP2	2.21	0.41
1:AA:716:A:C6	1:AA:717:C:C4	3.09	0.41
25:DA:2244:U:O5'	25:DA:2244:U:H6	2.02	0.41
36:BP:10:PRO:CD	36:BP:11:GLY:H	2.34	0.41
10:CH:123:GLU:O	10:CH:127:LEU:HD23	2.20	0.41
25:DA:1511:A:H8	25:DA:1511:A:O5'	2.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CB:153:ARG:HG3	4:CB:153:ARG:H	1.56	0.41
25:BA:2795:G:H3'	25:BA:2797:U:C5'	2.50	0.41
29:DF:73:ALA:O	29:DF:74:ARG:HB2	2.21	0.41
1:AA:374:A:C6	1:AA:375:U:C4	3.08	0.41
1:CA:1517:G:H2'	1:CA:1518:A:C8	2.55	0.41
25:BA:2262:U:H2'	25:BA:2263:C:H6	1.86	0.41
25:DA:1283:G:H1'	25:DA:1329:U:O2	2.20	0.41
25:BA:1764:G:C2	25:BA:1765:C:C2	3.09	0.41
1:CA:1479:C:H2'	1:CA:1480:G:C8	2.55	0.41
34:DN:64:ASP:OD1	34:DN:64:ASP:N	2.54	0.41
24:CX:123:PHE:CG	24:CX:180:VAL:HG11	2.56	0.41
25:BA:2476:A:H3'	25:BA:2476:A:N3	2.36	0.41
25:DA:1765:C:O5'	25:DA:1765:C:H6	2.03	0.41
25:BA:2260:C:H2'	25:BA:2261:C:C6	2.55	0.41
1:CA:875:C:O2'	10:CH:14:ARG:HD2	2.20	0.41
1:CA:575:G:H4'	1:CA:575:G:OP1	2.21	0.41
2:AY:4:G:C6	2:AY:70:G:C6	3.08	0.41
25:BA:1337:G:H2'	25:BA:1338:G:O4'	2.20	0.41
25:BA:310:A:P	45:BY:18:GLY:HA2	2.61	0.41
46:DZ:158:PRO:HA	46:DZ:159:PRO:HD3	1.97	0.41
25:BA:449:A:OP1	29:BF:85:GLY:HA2	2.20	0.41
1:AA:34:C:H2'	1:AA:35:G:H8	1.86	0.41
25:BA:2651:C:O2'	25:BA:2652:C:H5'	2.21	0.41
25:DA:2080:G:H2'	25:DA:2081:C:C6	2.55	0.41
32:DI:118:LYS:HA	32:DI:119:PRO:HD3	1.89	0.41
25:BA:1364:G:H1'	25:BA:1368:G:N2	2.35	0.41
25:DA:599:G:H2'	25:DA:600:G:H8	1.84	0.41
25:DA:1064:C:H2'	25:DA:1065:U:O4'	2.20	0.41
16:AN:60:SER:O	16:AN:61:TRP:HB3	2.21	0.41
29:DF:60:SER:OG	29:DF:61:GLY:N	2.54	0.41
1:CA:859:A:H2'	1:CA:860:A:O4'	2.19	0.41
1:AA:318:G:H2'	1:AA:319:G:H8	1.86	0.41
29:BF:100:THR:O	29:BF:100:THR:HG22	2.21	0.41
42:DV:61:VAL:O	42:DV:61:VAL:HG23	2.21	0.41
27:DD:231:HIS:CE1	27:DD:232:PRO:HD2	2.55	0.41
45:DY:76:CYS:HB2	45:DY:96:ILE:HD13	2.01	0.41
27:BD:244:ARG:HD2	27:BD:245:PRO:HB3	2.03	0.41
24:CX:97:LEU:N	24:CX:98:PRO:HD3	2.36	0.41
25:DA:140:A:H8	25:DA:1408:C:O2'	1.95	0.41
1:AA:981:U:H5''	16:AN:6:LEU:HD21	2.03	0.41
1:AA:1410:G:H2'	1:AA:1411:C:H6	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:DE:36:ARG:NH1	28:DE:86:PRO:HD2	2.27	0.41
49:B2:21:LEU:HG	49:B2:64:LEU:HB3	2.02	0.41
14:AL:17:VAL:O	14:AL:18:ARG:HB3	2.20	0.41
36:BP:46:LYS:HD2	36:BP:46:LYS:HA	1.79	0.41
25:BA:465:G:C6	25:BA:466:A:N6	2.88	0.41
1:CA:68:G:C2	1:CA:69:G:C4	3.08	0.41
38:BR:2:ARG:HD3	38:BR:2:ARG:HH11	1.66	0.41
15:AM:14:ARG:HB3	15:AM:16:ASP:OD2	2.21	0.41
1:AA:194:C:H5''	22:AT:65:LYS:HE2	2.01	0.41
25:BA:1817:G:C6	25:BA:1818:U:C4	3.08	0.41
28:BE:169:ASN:ND2	28:BE:201:THR:HG21	2.35	0.41
25:DA:1796:U:H2'	25:DA:1797:C:H6	1.81	0.41
1:AA:176:C:H2'	1:AA:177:C:H6	1.84	0.41
25:BA:2406:U:C2	36:BP:72:PRO:HB2	2.56	0.41
45:BY:8:LYS:HZ3	45:BY:8:LYS:C	2.23	0.41
1:AA:377:G:O2'	1:AA:378:G:H5'	2.20	0.41
2:CZ:4:G:O2'	2:CZ:5:G:H8	2.02	0.41
1:CA:451:A:H61	1:CA:480:U:H2'	1.82	0.41
25:DA:2243:U:H2'	25:DA:2244:U:C5	2.56	0.41
1:AA:604:G:H2'	1:AA:605:U:O4'	2.21	0.41
27:DD:161:THR:O	27:DD:162:SER:HB2	2.19	0.41
25:DA:2115:G:N2	25:DA:2117:A:H8	2.19	0.41
27:BD:158:ALA:O	27:BD:196:VAL:HG11	2.21	0.41
25:DA:2291:U:H2'	25:DA:2292:C:H6	1.86	0.41
10:AH:123:GLU:O	10:AH:127:LEU:HD23	2.21	0.41
1:CA:563:A:HO2'	1:CA:567:G:H8	1.63	0.41
25:BA:329:G:H1	45:BY:19:LYS:HG3	1.86	0.41
1:CA:1528:U:H6	1:CA:1528:U:C5'	2.34	0.41
25:DA:2816:C:H2'	25:DA:2817:G:H8	1.85	0.41
2:CY:25:C:H2'	2:CY:26:G:O4'	2.21	0.41
1:CA:374:A:C2	1:CA:375:U:C2	3.08	0.41
39:BS:90:GLY:O	39:BS:91:PRO:C	2.59	0.41
25:BA:1686:C:N3	25:BA:1703:G:C2	2.89	0.41
1:AA:557:G:C2	1:AA:558:G:C2	3.09	0.41
43:DW:88:ARG:H	25:DA:1614:A:H62	1.69	0.41
25:DA:1516:U:H2'	25:DA:1517:G:H8	1.86	0.41
24:CX:225:SER:HB3	24:CX:253:GLN:HE22	1.84	0.41
6:AD:175:SER:OG	6:AD:184:LYS:HB2	2.20	0.41
1:AA:875:C:O2'	10:AH:14:ARG:HD2	2.20	0.41
25:BA:1215:G:C5	25:BA:1216:G:N7	2.88	0.41
25:DA:187:G:C6	25:DA:188:G:N7	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2519:U:H4'	25:BA:2520:C:OP1	2.20	0.41
25:DA:1649:G:N1	25:DA:2009:G:C6	2.89	0.41
37:BQ:58:PHE:O	37:BQ:58:PHE:CD1	2.74	0.41
47:D0:82:ARG:HA	47:D0:83:PRO:HD2	1.84	0.41
25:BA:1167:U:H2'	25:BA:1168:G:H8	1.85	0.41
25:BA:15:G:C4	25:BA:16:G:C8	3.08	0.41
25:DA:226:G:C2	25:DA:227:A:C6	3.08	0.41
30:DG:178:PHE:HA	30:DG:179:PRO:HD2	1.82	0.41
1:AA:384:G:H2'	1:AA:385:C:C6	2.55	0.41
12:AJ:7:LYS:HB2	12:AJ:97:GLU:O	2.21	0.41
22:AT:37:SER:O	22:AT:41:VAL:HG23	2.20	0.41
17:CO:74:ASP:OD1	17:CO:77:ARG:HG2	2.21	0.41
25:BA:52:A:H2'	25:BA:53:A:O4'	2.21	0.41
25:DA:2389:G:H5''	25:DA:2390:U:O4'	2.20	0.41
50:B3:16:PRO:HB2	50:B3:18:ASP:OD1	2.21	0.41
17:AO:20:GLY:O	17:AO:21:ASP:C	2.58	0.41
6:CD:17:VAL:O	6:CD:19:LEU:HG	2.21	0.41
25:BA:2080:G:H2'	25:BA:2081:C:C6	2.55	0.41
6:AD:68:TYR:O	6:AD:69:GLY:C	2.58	0.41
40:BT:35:LYS:HE3	40:BT:35:LYS:HB2	1.87	0.41
13:AK:123:LYS:HE3	13:AK:123:LYS:HB3	1.89	0.41
15:AM:66:LEU:N	15:AM:66:LEU:HD23	2.36	0.41
9:AG:48:LYS:O	9:AG:52:GLU:HG2	2.21	0.41
12:AJ:18:ALA:O	12:AJ:22:LYS:HB2	2.21	0.41
25:BA:1342:A:C5	25:BA:1397:U:C6	3.09	0.41
41:BU:92:ARG:O	41:BU:93:LYS:C	2.59	0.41
25:DA:2070:G:H2'	25:DA:2071:A:O4'	2.21	0.41
14:AL:52:ARG:O	14:AL:54:VAL:HG23	2.21	0.41
32:BI:92:VAL:HG23	32:BI:96:ASP:HB2	2.03	0.41
1:CA:981:U:H5''	16:CN:6:LEU:HD21	2.03	0.41
7:AE:92:LYS:HA	7:AE:93:PRO:HD2	1.85	0.41
49:D2:21:LEU:HG	49:D2:64:LEU:HB3	2.03	0.41
1:AA:243:A:C2	1:AA:246:A:C8	3.09	0.41
36:BP:23:PRO:HB2	36:BP:33:ARG:CG	2.49	0.41
28:BE:112:GLY:O	28:BE:159:HIS:HA	2.21	0.41
1:AA:1260:C:OP1	1:AA:1284:C:H4'	2.21	0.41
29:DF:170:LEU:HA	29:DF:171:PRO:HD2	1.83	0.41
1:AA:1227:A:OP1	15:AM:94:ARG:CZ	2.68	0.41
25:DA:1299:G:H22	25:DA:1640:C:H5'	1.86	0.41
29:DF:45:ARG:NH1	25:DA:443:A:H2'	2.33	0.41
43:DW:17:VAL:HG21	43:DW:76:VAL:HG21	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:849:A:H3'	25:DA:850:C:C6	2.56	0.41
39:DS:18:ILE:HD12	25:DA:2378:A:H2	1.85	0.41
25:BA:518:G:H2'	25:BA:519:U:H6	1.86	0.41
43:BW:18:ARG:NH1	43:BW:76:VAL:HG13	2.36	0.41
48:B1:86:SER:CB	48:B1:90:ILE:HG12	2.51	0.41
25:BA:108:U:H2'	25:BA:109:G:H8	1.85	0.41
1:CA:698:G:C6	1:CA:699:C:C4	3.09	0.41
25:BA:1441:G:N2	25:BA:1551:C:C2	2.89	0.41
25:BA:27:G:C8	25:BA:27:G:O5'	2.73	0.41
21:AS:61:TYR:CG	21:AS:62:ILE:N	2.89	0.41
25:DA:270(Q):C:C2	25:DA:270(R):C:C5	3.09	0.41
12:CJ:27:ALA:HA	12:CJ:81:THR:HG22	2.03	0.41
47:D0:32:ARG:N	47:D0:35:ASN:ND2	2.65	0.41
1:AA:579:G:H2'	1:AA:580:U:C6	2.56	0.41
25:DA:491:G:H2'	25:DA:492:A:H8	1.85	0.41
36:DP:10:PRO:HD2	36:DP:11:GLY:H	1.85	0.41
52:D5:3:LYS:HD3	25:DA:747:U:OP1	2.21	0.41
26:BB:45:A:H1'	30:BG:95:ARG:CZ	2.50	0.41
1:CA:1301:U:H3'	1:CA:1302:U:C5'	2.50	0.41
20:AR:84:LYS:HZ3	20:AR:84:LYS:HA	1.84	0.41
1:AA:512:U:C2	1:AA:513:C:C5	3.09	0.41
25:DA:2018:G:H2'	25:DA:2019:A:C8	2.56	0.41
1:CA:512:U:C2	1:CA:513:C:C5	3.09	0.41
1:AA:356:A:H2'	1:AA:357:G:O4'	2.21	0.41
25:DA:218:A:H2	25:DA:235:U:H4'	1.86	0.41
4:CB:217:ARG:O	4:CB:220:ASP:HB2	2.19	0.41
1:AA:815:A:H4'	1:AA:817:C:C5	2.56	0.41
25:DA:2127:G:H2'	25:DA:2128:C:O4'	2.21	0.41
1:AA:718:G:C4	13:AK:116:HIS:ND1	2.88	0.41
1:CA:542:G:H5'	6:CD:41:GLY:HA2	2.03	0.41
28:DE:54:GLN:O	28:DE:56:PRO:HD3	2.21	0.41
1:AA:186(B):C:H2'	1:AA:186(C):C:H6	1.86	0.41
25:DA:951:C:H2'	25:DA:952:G:C8	2.56	0.41
25:BA:149:A:H2'	25:BA:150:C:H6	1.85	0.41
36:BP:112:LEU:C	36:BP:112:LEU:HD23	2.41	0.41
25:DA:1337:G:H2'	25:DA:1338:G:O4'	2.21	0.41
43:DW:25:ARG:HB2	43:DW:25:ARG:HH11	1.85	0.41
25:DA:968:G:H2'	25:DA:969:U:C6	2.56	0.41
50:B3:41:PRO:HA	50:B3:44:ARG:HD2	2.02	0.41
25:DA:748:G:OP1	25:DA:2612:C:N4	2.53	0.41
5:CC:123:GLN:O	5:CC:128:PHE:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CH:24:THR:HG22	10:CH:25:ASP:N	2.35	0.41
9:CG:48:LYS:O	9:CG:52:GLU:HG2	2.21	0.41
25:DA:979:G:C4	25:DA:982:C:N4	2.89	0.41
25:DA:521:G:H2'	25:DA:522:G:C8	2.56	0.41
25:BA:593:G:H4'	55:B8:62:LEU:HD13	2.02	0.41
25:DA:2853:C:H2'	25:DA:2854:G:H8	1.86	0.41
27:DD:250:TRP:CD1	25:DA:1805:U:H5''	2.56	0.41
25:BA:2700:C:O2'	25:BA:2701:C:H5'	2.21	0.41
37:DQ:77:LYS:HA	37:DQ:78:PRO:HD3	1.78	0.41
15:CM:115:LYS:N	15:CM:115:LYS:HD3	2.35	0.41
27:DD:181:GLU:O	27:DD:182:LEU:HD23	2.21	0.41
25:DA:1949:G:C6	25:DA:1950:G:C6	3.08	0.41
26:DB:114:G:H2'	26:DB:115:G:H8	1.86	0.41
13:AK:17:GLY:HA3	13:AK:77:MET:SD	2.61	0.41
37:DQ:48:GLU:HA	37:DQ:51:ARG:HB3	2.03	0.41
27:DD:245:PRO:HB2	27:DD:246:PRO:HD2	2.03	0.41
42:BV:6:LYS:CA	42:BV:11:GLN:HB3	2.51	0.41
25:BA:1161:C:H2'	25:BA:1162:G:C8	2.56	0.41
1:AA:1370:G:O2'	1:AA:1371:G:H5'	2.20	0.41
42:DV:6:LYS:CA	42:DV:11:GLN:HB3	2.51	0.41
49:B2:23:LYS:O	49:B2:27:GLU:HG3	2.21	0.41
48:B1:11:ARG:CB	48:B1:12:PRO:HD2	2.35	0.41
6:CD:188:LEU:HA	6:CD:189:PRO:HD2	1.91	0.41
25:DA:2426:A:H8	25:DA:2426:A:P	2.44	0.41
27:BD:245:PRO:HB2	27:BD:246:PRO:HD2	2.02	0.41
25:BA:2426:A:P	25:BA:2426:A:H8	2.44	0.41
25:BA:2070:G:H2'	25:BA:2071:A:O4'	2.21	0.41
37:DQ:45:GLN:HB2	25:DA:2484:G:H5''	2.03	0.41
50:D3:8:LEU:HD13	50:D3:31:LEU:HD12	2.02	0.41
14:AL:51:LEU:HD11	24:AX:299:SER:O	2.21	0.41
32:BI:120:ILE:HG13	32:BI:120:ILE:H	1.71	0.41
49:B2:2:LYS:HD2	49:B2:2:LYS:H	1.86	0.41
5:AC:39:ILE:O	5:AC:43:LEU:HG	2.21	0.41
25:DA:2415:G:C6	25:DA:2416:C:C4	3.08	0.41
36:BP:66:GLY:C	36:BP:68:GLN:N	2.72	0.41
25:BA:819:A:C4	25:BA:1189:A:C2	3.09	0.41
25:BA:662:G:OP1	36:BP:18:ARG:HD2	2.21	0.41
28:DE:50:GLY:HA3	28:DE:75:VAL:HG11	2.02	0.41
28:DE:112:GLY:O	28:DE:159:HIS:HA	2.21	0.41
11:CI:10:ARG:HD3	11:CI:11:LYS:N	2.36	0.41
1:CA:1511:G:H2'	1:CA:1512:U:O4'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:443:A:H1'	25:DA:1201:C:O4'	2.21	0.41
51:D4:60:GLU:HG2	51:D4:61:VAL:HG23	2.03	0.41
4:AB:80:ILE:HG21	4:AB:211:ILE:HG22	2.02	0.41
1:AA:1343:G:H2'	1:AA:1344:C:C6	2.55	0.41
18:AP:20:VAL:HG22	18:AP:21:VAL:N	2.34	0.41
52:B5:40:LYS:HG2	52:B5:46:CYS:HB2	2.03	0.41
25:DA:1668:A:H61	25:DA:1676:A:H61	1.68	0.41
55:D8:54:GLU:HA	55:D8:57:ARG:HH11	1.86	0.41
27:BD:84:TYR:CD2	27:BD:86:PRO:HD3	2.56	0.41
40:DT:50:ILE:HD13	40:DT:64:ARG:H	1.86	0.41
27:BD:94:LEU:HD23	27:BD:104:TYR:CE1	2.56	0.41
24:AX:300:GLU:HG3	24:AX:301:LYS:N	2.29	0.41
1:AA:795:C:H5''	1:AA:796:C:OP2	2.21	0.41
1:AA:1080:A:H5'	7:AE:14:ARG:NH2	2.36	0.41
14:CL:17:VAL:O	14:CL:18:ARG:HB3	2.21	0.41
44:DX:8:ILE:HD11	44:DX:42:ALA:HB1	2.03	0.41
14:AL:76:LEU:HD11	14:AL:106:ALA:HA	2.02	0.41
33:DJ:14:LYS:CA	33:DJ:14:LYS:HE2	2.48	0.41
25:BA:39:C:H2'	25:BA:40:C:H6	1.85	0.41
24:AX:50:GLU:O	24:AX:54:VAL:HG23	2.20	0.41
55:B8:14:VAL:HG13	55:B8:23:VAL:O	2.21	0.41
25:DA:2662:A:H8	25:DA:2662:A:O5'	2.04	0.41
25:BA:61:G:C6	25:BA:62:C:C4	3.09	0.41
48:D1:26:ARG:O	48:D1:27:GLU:HB3	2.20	0.41
21:AS:63:THR:HG22	21:AS:66:MET:HG2	2.03	0.41
40:BT:54:ARG:HA	40:BT:59:THR:HG1	1.85	0.41
40:DT:54:ARG:HA	40:DT:59:THR:HG1	1.86	0.41
25:DA:270(S):G:O2'	25:DA:270(T):G:H8	2.03	0.41
40:DT:32:TYR:O	40:DT:42:ILE:HA	2.21	0.41
46:DZ:59:LEU:HD11	46:DZ:88:PHE:CD2	2.56	0.41
25:BA:2134:A:H61	25:BA:2157:G:H1'	1.83	0.41
25:DA:825:C:H2'	25:DA:826:U:O4'	2.21	0.41
25:BA:2335:A:H2'	39:BS:13:ARG:NH2	2.32	0.41
25:DA:639:U:H2'	25:DA:640:C:C6	2.56	0.41
1:CA:1060:C:C5'	12:CJ:51:ARG:HB3	2.50	0.41
1:AA:447:G:H2'	1:AA:485:G:N2	2.35	0.41
25:BA:825:C:H2'	25:BA:826:U:O4'	2.21	0.41
28:BE:110:GLY:CA	28:BE:162:ALA:HB2	2.51	0.41
25:BA:705:A:H2'	25:BA:706:A:H8	1.86	0.41
1:CA:59:A:H1'	1:CA:354:G:C2	2.56	0.41
1:CA:692:U:O2	1:CA:694:A:C8	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BQ:120:ILE:HA	37:BQ:123:HIS:HD2	1.85	0.41
25:DA:970:C:O5'	25:DA:970:C:H6	2.04	0.41
25:DA:742:G:H2'	25:DA:743:G:C8	2.50	0.41
4:AB:102:LEU:O	4:AB:105:PHE:HB2	2.21	0.41
1:AA:692:U:O2	1:AA:694:A:C8	2.74	0.41
25:BA:954:G:H1'	25:BA:2274:A:N1	2.36	0.41
25:DA:2119:A:H5''	25:DA:2172:U:O2	2.21	0.41
6:CD:61:LYS:HD2	6:CD:206:PHE:CE2	2.55	0.41
1:AA:1513:A:H2'	1:AA:1514:C:H6	1.83	0.41
27:DD:5:LYS:H	27:DD:5:LYS:HD2	1.84	0.41
25:BA:2599:G:H2'	25:BA:2600:A:C8	2.53	0.41
35:DO:34:THR:O	35:DO:35:VAL:C	2.59	0.41
25:DA:1973:G:C6	25:DA:1974:C:N4	2.89	0.41
25:BA:2114:A:H3'	25:BA:2115:G:C8	2.56	0.41
25:BA:1973:G:H2'	25:BA:1974:C:C6	2.55	0.41
25:DA:380:U:H2'	25:DA:381:G:H8	1.84	0.41
42:BV:77:ALA:O	42:BV:79:VAL:N	2.54	0.41
1:CA:600:C:H2'	1:CA:601:C:H6	1.86	0.41
40:DT:19:LEU:HA	40:DT:20:PRO:HD3	1.85	0.41
1:CA:601:C:H2'	1:CA:602:A:H8	1.85	0.41
32:DI:57:ARG:O	32:DI:61:ARG:HG3	2.20	0.41
46:BZ:137:ILE:N	46:BZ:137:ILE:HD12	2.36	0.41
1:CA:359:U:H2'	1:CA:360:A:H8	1.85	0.41
25:BA:297:C:H5''	45:BY:85:VAL:CG2	2.51	0.41
25:BA:296:C:H2'	25:BA:297:C:C6	2.56	0.41
1:CA:815:A:H4'	1:CA:817:C:C5	2.56	0.41
27:DD:70:TRP:CD1	27:DD:70:TRP:C	2.94	0.41
30:DG:33:ARG:O	30:DG:161:THR:HG23	2.20	0.41
25:DA:296:C:H2'	25:DA:297:C:C6	2.56	0.41
25:BA:1945:G:C6	25:BA:1946:U:C4	3.09	0.41
7:AE:48:ALA:HA	7:AE:49:PRO:HD3	1.89	0.41
45:DY:18:GLY:HA2	25:DA:310:A:P	2.61	0.41
44:DX:36:LYS:HD3	25:DA:1599:C:OP2	2.20	0.41
1:CA:1528:U:H5''	1:CA:1528:U:C6	2.55	0.41
31:DH:13:LYS:HE2	31:DH:13:LYS:CA	2.50	0.41
27:DD:186:HIS:CD2	27:DD:188:GLU:HB2	2.56	0.41
30:DG:173:LEU:HD23	30:DG:176:LEU:HD12	2.03	0.41
34:BN:161:LEU:HD23	34:BN:161:LEU:N	2.36	0.41
25:BA:2127:G:H2'	25:BA:2128:C:O4'	2.21	0.41
25:BA:273(B):G:C6	25:BA:364:C:N4	2.89	0.41
25:BA:610:C:H2'	25:BA:611:C:H6	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:197:A:N6	1:CA:221:C:H4'	2.36	0.41
1:CA:191(C):G:H2'	1:CA:191(D):U:H6	1.85	0.41
41:BU:79:PHE:CE1	41:BU:83:LEU:HD11	2.56	0.41
25:BA:2099:U:H2'	25:BA:2100:G:C8	2.55	0.41
25:BA:561:G:O2'	25:BA:562:U:H5'	2.21	0.41
25:DA:1459:G:C6	25:DA:1461:G:C5	3.09	0.41
25:BA:907:U:H4'	37:BQ:101:ARG:HH22	1.86	0.41
1:AA:1479:C:H2'	1:AA:1480:G:C8	2.54	0.41
25:DA:931:G:C8	25:DA:931:G:H3'	2.56	0.41
7:AE:45:PHE:CD2	7:AE:47:LYS:HD2	2.56	0.41
11:CI:83:ARG:HA	11:CI:86:VAL:HG12	2.02	0.41
25:DA:2260:C:H2'	25:DA:2261:C:C6	2.55	0.41
25:BA:931:G:H3'	25:BA:931:G:C8	2.56	0.41
25:DA:268:C:H2'	25:DA:269:U:O4'	2.20	0.41
1:CA:590:C:H2'	1:CA:591:U:C6	2.56	0.41
1:AA:1150:U:H1'	1:AA:1280:A:N6	2.35	0.41
25:DA:815:C:C2	25:DA:1193:G:C2	3.08	0.41
25:DA:2493:U:C4	25:DA:2494:G:C8	3.09	0.41
25:BA:1054:A:H2'	25:BA:1055:G:H8	1.85	0.41
41:DU:8:VAL:HG12	41:DU:12:ARG:HG3	2.03	0.41
1:CA:1379:G:N1	1:CA:1380:U:C4	2.88	0.41
25:DA:2182:G:H2'	25:DA:2183:C:C6	2.55	0.41
25:DA:628:G:H2'	25:DA:629:G:C8	2.56	0.41
35:DO:31:LYS:HB2	25:DA:2675:A:OP1	2.20	0.41
1:CA:1437:C:H2'	1:CA:1438:G:H8	1.86	0.41
25:BA:1029:A:C8	25:BA:1030:G:C8	3.08	0.41
25:BA:2182:G:H2'	25:BA:2183:C:C6	2.56	0.41
25:BA:2350:C:H2'	25:BA:2351:G:O4'	2.21	0.41
55:D8:62:LEU:HD13	25:DA:593:G:H4'	2.02	0.41
39:DS:50:SER:OG	26:DB:115:G:H5'	2.21	0.41
25:DA:522:G:C6	25:DA:523:C:C4	3.09	0.41
1:AA:39:G:C6	1:AA:40:C:C4	3.09	0.41
29:DF:32:LEU:O	29:DF:36:VAL:HG23	2.21	0.41
52:D5:26:THR:HA	52:D5:27:PRO:HD2	1.88	0.41
55:B8:19:SER:OG	55:B8:21:LYS:HE2	2.21	0.41
25:DA:2532:G:C6	25:DA:2533:A:C5	3.08	0.41
25:DA:237:C:N3	25:DA:261:G:C2	2.88	0.41
14:CL:88:ARG:HA	14:CL:96:ARG:HA	2.03	0.41
29:DF:66:PRO:O	29:DF:68:LYS:HG2	2.19	0.41
47:D0:14:ARG:O	47:D0:15:ASP:HB2	2.21	0.41
23:CU:24:ARG:HG3	23:CU:25:LYS:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AY:14:A:H2'	2:AY:15:G:O4'	2.21	0.41
1:CA:1108:G:H5'	5:CC:176:HIS:CD2	2.56	0.41
17:AO:54:ARG:NH1	17:AO:58:MET:SD	2.94	0.41
5:AC:72:LYS:HA	5:AC:73:PRO:HD2	1.88	0.41
10:CH:13:ILE:HD12	10:CH:13:ILE:H	1.86	0.41
53:B6:52:VAL:O	53:B6:52:VAL:HG12	2.21	0.41
9:CG:60:LYS:HD2	9:CG:60:LYS:HA	1.79	0.41
25:BA:226:G:C2	25:BA:227:A:C6	3.08	0.41
24:AX:26:LYS:N	24:AX:26:LYS:HD2	2.36	0.41
7:AE:105:VAL:N	7:AE:106:PRO:HD2	2.36	0.41
30:DG:124:SER:HB2	30:DG:131:TYR:CE1	2.56	0.41
13:AK:91:ARG:O	13:AK:95:ILE:HG13	2.21	0.41
25:BA:851:U:O2'	50:B3:45:GLY:HA3	2.21	0.41
27:BD:131:LEU:HD13	27:BD:135:PHE:HB2	2.02	0.41
37:DQ:125:LEU:HA	37:DQ:126:PRO:HD3	1.84	0.41
16:CN:60:SER:O	16:CN:61:TRP:HB3	2.21	0.41
25:DA:1937:A:O2'	25:DA:1938:A:H5'	2.21	0.41
1:CA:801:U:H2'	1:CA:802:A:C8	2.55	0.41
25:BA:2853:C:H2'	25:BA:2854:G:H8	1.86	0.41
12:CJ:40:LEU:HB3	12:CJ:41:PRO:HD2	2.03	0.41
12:CJ:3:LYS:HD2	12:CJ:77:PRO:HD3	2.02	0.41
24:CX:145:LEU:HB2	24:CX:159:VAL:CG2	2.50	0.41
25:BA:88:G:H5'	25:BA:89:G:OP2	2.20	0.41
27:DD:64:ILE:H	27:DD:64:ILE:HD12	1.86	0.41
4:AB:87:ARG:O	4:AB:87:ARG:HD2	2.21	0.41
6:AD:88:VAL:O	6:AD:92:VAL:HG23	2.21	0.41
10:AH:24:THR:HG22	10:AH:25:ASP:N	2.36	0.41
1:CA:797:C:OP1	13:CK:124:LYS:HG3	2.21	0.41
41:BU:90:VAL:O	41:BU:92:ARG:N	2.50	0.41
48:D1:11:ARG:HG3	48:D1:61:ARG:O	2.20	0.41
37:BQ:48:GLU:HA	37:BQ:51:ARG:HB3	2.03	0.41
41:DU:94:ASN:C	41:DU:94:ASN:OD1	2.60	0.41
7:AE:78:HIS:HD2	10:AH:104:ARG:HD2	1.85	0.41
45:DY:8:LYS:HB2	45:DY:9:LYS:H	1.72	0.41
25:BA:448:U:H1'	29:BF:84:VAL:HG21	2.03	0.41
14:AL:51:LEU:HD12	14:AL:51:LEU:N	2.35	0.41
14:CL:51:LEU:HD12	14:CL:51:LEU:N	2.36	0.41
5:CC:21:ARG:HG3	5:CC:58:GLU:HG2	2.03	0.41
1:AA:1220:G:N2	21:AS:54:GLY:HA2	2.26	0.41
1:AA:243:A:H4'	1:AA:244:U:O5'	2.21	0.41
28:DE:51:PHE:CD1	28:DE:52:LEU:HG	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DA:464:U:H2'	25:DA:465:G:O4'	2.20	0.41
1:AA:1509:C:H2'	1:AA:1510:U:O4'	2.21	0.41
25:DA:1478:G:O2'	25:DA:1558:A:C2	2.72	0.41
32:BI:89:TYR:O	32:BI:90:GLY:O	2.39	0.41
27:DD:25:THR:HG22	27:DD:82:ILE:O	2.20	0.41
25:BA:443:A:H1'	25:BA:1201:C:O4'	2.21	0.41
18:CP:20:VAL:HG22	18:CP:21:VAL:N	2.36	0.41
48:D1:92:LYS:C	48:D1:94:LEU:H	2.24	0.41
48:B1:53:VAL:HG22	48:B1:74:VAL:HG13	2.03	0.41
25:BA:107:C:O2'	25:BA:108:U:H5'	2.21	0.41
1:AA:68:G:H2'	1:AA:69:G:C8	2.56	0.41
24:CX:115:THR:HG1	25:DA:1913:A:H2	1.67	0.41
15:CM:14:ARG:HB3	15:CM:16:ASP:OD2	2.21	0.41
1:AA:1053:G:C6	1:AA:1199:U:C2	3.09	0.41
53:D6:11:LEU:HA	53:D6:11:LEU:HD22	1.95	0.41
34:BN:66:THR:HB	34:BN:69:VAL:HG12	2.03	0.41
25:BA:2075:U:C4	25:BA:2238:G:C6	3.09	0.41
25:BA:626:U:O2	36:BP:105:LEU:HD23	2.20	0.41
24:CX:182:ARG:HB3	24:CX:307:PHE:CD1	2.56	0.41
36:BP:10:PRO:HD2	36:BP:11:GLY:H	1.85	0.41
25:DA:1230:C:C2	25:DA:1231:G:N7	2.88	0.41
6:AD:61:LYS:HD2	6:AD:206:PHE:CE2	2.57	0.41
1:CA:926:G:N2	3:CV:15:A:H3'	2.33	0.41
25:BA:655:A:C2'	25:BA:656:G:H5'	2.51	0.41
1:CA:643:C:H5'	10:CH:31:PHE:CD1	2.56	0.41
25:BA:2358:G:C5	25:BA:2359:C:C5	3.09	0.41
17:AO:44:LYS:HZ3	17:AO:44:LYS:N	2.18	0.41
1:AA:1472:U:H2'	1:AA:1473:A:H8	1.86	0.41
47:D0:27:GLU:HB3	25:DA:856:C:H4'	2.02	0.41
6:CD:60:GLU:O	6:CD:63:LYS:HB3	2.21	0.41
30:BG:33:ARG:O	30:BG:161:THR:HG23	2.21	0.41
25:DA:583:G:N2	25:DA:1258:C:C2	2.89	0.41
1:AA:375:U:OP1	18:AP:69:THR:HG21	2.21	0.41
25:DA:2262:U:H2'	25:DA:2263:C:H6	1.86	0.41
10:CH:9:MET:SD	10:CH:32:LYS:HG2	2.61	0.41
46:DZ:54:HIS:HB3	46:DZ:101:PRO:HD3	2.03	0.41
25:BA:1680:U:O2	25:BA:1763:G:C8	2.74	0.41
43:DW:75:TYR:CZ	43:DW:104:THR:HG21	2.56	0.41
1:CA:192:U:C1'	22:CT:103:GLY:HA2	2.51	0.41
43:DW:20:VAL:O	43:DW:23:LEU:HB2	2.21	0.41
34:BN:64:ASP:OD1	34:BN:64:ASP:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1459:G:C6	25:BA:1461:G:C5	3.09	0.41
25:DA:677:A:C6	25:DA:678:C:C4	3.09	0.41
1:AA:49:U:O2'	1:AA:50:A:H2'	2.21	0.41
5:CC:152:ILE:HG12	5:CC:167:TRP:HA	2.03	0.41
27:BD:271:ILE:N	27:BD:271:ILE:HD12	2.36	0.41
25:DA:1289:C:H2'	25:DA:1290:C:C6	2.55	0.41
25:DA:1326:U:H2'	25:DA:1327:C:O4'	2.21	0.41
25:DA:1686:C:N3	25:DA:1703:G:C2	2.89	0.41
24:CX:108:ILE:O	24:CX:201:VAL:HA	2.20	0.41
27:DD:129:ASN:H	27:DD:193:VAL:CG1	2.34	0.41
1:CA:33:A:C6	1:CA:34:C:N4	2.89	0.41
41:BU:60:LEU:C	41:BU:60:LEU:HD23	2.40	0.41
28:DE:11:MET:HE3	28:DE:186:GLY:HA2	2.02	0.41
25:BA:1648:C:H2'	25:BA:1649:G:O4'	2.21	0.41
1:AA:802:A:H2'	1:AA:803:G:O4'	2.21	0.41
31:DH:127:GLU:HB3	31:DH:128:PRO:HD2	2.03	0.41
25:BA:1630:G:H2'	25:BA:163(B):C:C6	2.56	0.41
25:DA:327:G:H2'	25:DA:328:U:C6	2.56	0.41
25:DA:271(C):G:C2	25:DA:421:U:C4	3.08	0.41
25:DA:2368:C:H2'	25:DA:2369:A:H8	1.86	0.41
25:DA:2639:A:H2'	25:DA:2640:G:O4'	2.20	0.41
24:CX:57:ASP:HB3	24:CX:77:GLU:OE2	2.21	0.41
25:BA:1562:A:C2	25:BA:1563:G:C4	3.09	0.41
25:BA:1324:G:H4'	25:BA:1616:A:C2	2.56	0.41
25:DA:1553:A:C6	25:DA:1555:G:C4	3.09	0.41
24:AX:32:GLN:NE2	24:AX:36:ARG:HH21	2.19	0.41
11:CI:46:ALA:HB2	11:CI:74:ILE:CG2	2.51	0.41
1:CA:761:G:H2'	1:CA:762:C:C6	2.56	0.41
37:DQ:76:LYS:HD2	25:DA:957:A:OP1	2.21	0.41
53:B6:17:LYS:HD3	53:B6:17:LYS:HA	1.87	0.41
48:D1:40:ARG:HD3	48:D1:40:ARG:C	2.41	0.41
10:AH:39:LEU:HA	10:AH:39:LEU:HD12	1.91	0.41
27:BD:112:GLN:N	27:BD:112:GLN:OE1	2.54	0.41
53:D6:42:TRP:HA	53:D6:42:TRP:CE3	2.55	0.41
38:DR:33:ARG:HD2	38:DR:33:ARG:N	2.36	0.41
26:DB:5:C:H2'	26:DB:6:C:H6	1.87	0.41
2:CY:14:A:H2'	2:CY:15:G:O4'	2.21	0.41
1:CA:225:C:H2'	1:CA:226:G:C8	2.56	0.41
25:BA:893:C:H2'	25:BA:894:C:C6	2.56	0.41
19:AQ:48:GLU:O	19:AQ:49:GLU:HB2	2.21	0.41
25:BA:1813:G:H2'	25:BA:1814:G:O4'	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BU:89:GLU:O	41:BU:90:VAL:C	2.60	0.40
25:BA:448:U:H1'	29:BF:84:VAL:HG23	2.03	0.40
46:BZ:25:PRO:HG2	46:BZ:84:GLU:O	2.20	0.40
36:DP:61:ARG:HD2	36:DP:61:ARG:N	2.36	0.40
36:BP:62:LEU:CD2	55:B8:25:MET:HB2	2.51	0.40
25:BA:2392:A:H1'	36:BP:60:MET:HE3	2.03	0.40
25:BA:2681:C:C5	25:BA:2724:C:N4	2.89	0.40
40:BT:64:ARG:NH1	40:BT:102:ILE:HG13	2.36	0.40
28:DE:195:LEU:HD23	28:DE:195:LEU:O	2.21	0.40
25:DA:465:G:C6	25:DA:466:A:N6	2.89	0.40
1:AA:1236:A:OP2	23:AU:3:LYS:HD2	2.21	0.40
1:AA:1510:U:H2'	1:AA:1511:G:C8	2.56	0.40
1:CA:1236:A:OP2	23:CU:3:LYS:HD2	2.21	0.40
25:BA:2593:U:H2'	25:BA:2594:C:C5	2.54	0.40
51:D4:59:VAL:HG12	51:D4:60:GLU:N	2.28	0.40
27:DD:84:TYR:CD2	27:DD:86:PRO:HD3	2.55	0.40
27:DD:94:LEU:HD23	27:DD:104:TYR:CE1	2.56	0.40
32:DI:72:LEU:HB2	32:DI:138:ILE:HG21	2.03	0.40
41:DU:62:ILE:HD11	41:DU:93:LYS:HD3	2.03	0.40
1:AA:690:G:C6	1:AA:691:G:C6	3.09	0.40
13:CK:21:ILE:HD13	13:CK:82:VAL:HG13	2.01	0.40
1:AA:413:G:N2	1:AA:428:G:H1'	2.37	0.40
34:DN:79:ASN:HD21	34:DN:149:PRO:CD	2.32	0.40
8:CF:22:GLU:O	8:CF:25:ILE:HB	2.21	0.40
43:DW:8:ARG:CA	43:DW:102:HIS:HD2	2.31	0.40
25:DA:1438:U:O2'	25:DA:1439:A:H5'	2.21	0.40
25:DA:2413:G:H2'	25:DA:2414:G:O4'	2.20	0.40
24:AX:182:ARG:HB3	24:AX:307:PHE:CD1	2.56	0.40
25:BA:391:G:H2'	25:BA:392:C:C6	2.56	0.40
25:BA:1021:A:H8	25:BA:1021:A:H3'	1.86	0.40
25:BA:1019:U:H3	25:BA:114(B):A:H62	1.68	0.40
1:AA:620:C:H2'	1:AA:621:A:O4'	2.21	0.40
25:DA:784:A:OP1	25:DA:2588:G:H5''	2.21	0.40
54:D7:11:LYS:HZ2	54:D7:15:THR:HG21	1.85	0.40
4:CB:102:LEU:O	4:CB:105:PHE:HB2	2.21	0.40
43:BW:51:LEU:O	43:BW:54:ALA:HB3	2.21	0.40
25:BA:2378:A:H2	39:BS:18:ILE:HD12	1.86	0.40
39:BS:25:ARG:CG	39:BS:88:ASP:HB2	2.50	0.40
24:CX:183:VAL:HA	24:CX:184:PRO:HD2	1.81	0.40
46:DZ:102:LEU:CD2	46:DZ:137:ILE:HB	2.49	0.40
8:AF:22:GLU:O	8:AF:25:ILE:HB	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:253:U:H2'	1:CA:254:G:C8	2.56	0.40
25:DA:657:U:C4	25:DA:658:C:N4	2.89	0.40
25:BA:2638:G:P	28:BE:82:ARG:HH22	2.44	0.40
1:CA:998(B):C:H2'	1:CA:999:U:C6	2.57	0.40
25:DA:2787:C:N4	25:DA:2788:C:N4	2.68	0.40
22:CT:10:LEU:O	22:CT:13:LEU:HD13	2.21	0.40
25:BA:797:C:H2'	25:BA:798:G:O4'	2.21	0.40
25:BA:2189:U:H2'	25:BA:2190:G:C8	2.55	0.40
27:BD:186:HIS:CD2	27:BD:188:GLU:HB2	2.56	0.40
1:AA:142:G:H1	1:AA:221:C:N4	2.18	0.40
25:BA:561:G:C2'	25:BA:562:U:H5'	2.51	0.40
25:BA:1331:A:C2'	25:BA:1332:G:H5''	2.50	0.40
25:DA:177:G:H3'	25:DA:178:G:C8	2.56	0.40
31:BH:159:GLU:O	31:BH:160:LYS:HG3	2.20	0.40
25:BA:968:G:H2'	25:BA:969:U:C6	2.56	0.40
1:CA:954:G:H2'	1:CA:955:U:C6	2.56	0.40
25:DA:629:G:H5''	25:DA:650:C:O2'	2.20	0.40
1:AA:35:G:H2'	1:AA:36:C:C6	2.56	0.40
25:DA:917:A:H5'	25:DA:2268:A:H61	1.85	0.40
6:AD:150:GLU:HA	6:AD:153:ARG:HG3	2.03	0.40
12:AJ:40:LEU:HB3	12:AJ:41:PRO:HD2	2.03	0.40
25:BA:1907:G:C6	25:BA:1908:C:C4	3.09	0.40
25:DA:2541:A:H4'	25:DA:2764:A:C2	2.56	0.40
18:CP:6:LEU:HD23	18:CP:17:TYR:CG	2.55	0.40
50:D3:16:PRO:HB2	50:D3:18:ASP:OD1	2.20	0.40
27:BD:15:PHE:O	27:BD:17:THR:HG23	2.21	0.40
6:AD:196:LEU:C	6:AD:198:VAL:H	2.24	0.40
1:CA:1037:C:H6	1:CA:1037:C:O5'	2.04	0.40
27:BD:64:ILE:H	27:BD:64:ILE:HD12	1.86	0.40
25:BA:1178:C:O5'	25:BA:1178:C:H6	2.05	0.40
19:AQ:29:HIS:HB3	19:AQ:33:GLY:N	2.35	0.40
10:AH:38:ILE:HD12	10:AH:118:VAL:HG12	2.02	0.40
40:DT:5:ALA:HB2	25:DA:2875:C:O2'	2.21	0.40
48:D1:19:GLN:NE2	48:D1:41:ARG:HE	2.20	0.40
28:BE:119:ARG:HH11	28:BE:119:ARG:CG	2.11	0.40
27:DD:244:ARG:HD2	27:DD:245:PRO:HB3	2.03	0.40
25:BA:2443:C:O2'	25:BA:2444:G:H5'	2.21	0.40
36:BP:138:LEU:C	36:BP:138:LEU:HD12	2.42	0.40
14:CL:52:ARG:O	14:CL:54:VAL:HG23	2.21	0.40
36:DP:62:LEU:CD2	55:D8:25:MET:HB2	2.52	0.40
11:AI:114:TYR:HE1	12:AJ:59:SER:CA	2.34	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:2577:A:H1'	52:B5:4:HIS:HB3	2.02	0.40
25:DA:2403:C:N3	25:DA:2415:G:C2	2.90	0.40
25:DA:809:G:O2'	25:DA:810:U:H5'	2.21	0.40
25:DA:2029:G:O6	25:DA:2033:A:OP1	2.39	0.40
38:BR:4:LEU:C	38:BR:6:SER:N	2.75	0.40
25:BA:2551:C:H2'	25:BA:2552:U:C6	2.57	0.40
25:BA:1668:A:H61	25:BA:1676:A:H61	1.68	0.40
37:DQ:6:ARG:HB3	37:DQ:7:MET:H	1.72	0.40
11:AI:53:VAL:HG12	11:AI:92:TYR:CD2	2.56	0.40
21:AS:29:ARG:O	21:AS:31:ILE:HG22	2.20	0.40
1:AA:1181:G:H4'	1:AA:1182:G:OP1	2.22	0.40
27:DD:35:LYS:NZ	27:DD:103:ARG:HA	2.36	0.40
27:DD:85:ASP:HA	27:DD:86:PRO:HD2	1.87	0.40
55:D8:54:GLU:CG	55:D8:57:ARG:HH12	2.35	0.40
1:CA:1181:G:H4'	1:CA:1182:G:OP1	2.22	0.40
25:DA:107:C:O2'	25:DA:108:U:H5'	2.21	0.40
25:DA:27:G:C8	25:DA:27:G:O5'	2.74	0.40
34:BN:78:VAL:O	34:BN:79:ASN:HB2	2.21	0.40
1:AA:1053:G:C6	1:AA:1199:U:H2'	2.57	0.40
1:AA:1054:C:C2'	1:AA:1055:A:H5''	2.51	0.40
8:CF:17:SER:O	8:CF:21:LEU:HD23	2.21	0.40
40:BT:41:ARG:CD	40:BT:42:ILE:H	2.31	0.40
12:CJ:34:VAL:CG2	12:CJ:74:ILE:HG22	2.51	0.40
1:CA:146:G:H1	1:CA:177:C:N4	2.18	0.40
24:CX:181:GLN:HB3	24:CX:192:ILE:HD11	2.03	0.40
25:BA:2413:G:H2'	25:BA:2414:G:O4'	2.21	0.40
13:CK:54:ARG:HG2	13:CK:54:ARG:H	1.70	0.40
40:BT:117:ASP:O	40:BT:121:ILE:HG13	2.21	0.40
28:DE:92:THR:HB	28:DE:94:GLU:HG2	2.03	0.40
43:DW:27:LYS:O	43:DW:71:VAL:HG23	2.22	0.40
1:AA:707:C:H5''	13:AK:85:ARG:NH1	2.37	0.40
1:AA:261:U:C5	22:AT:79:ARG:NH1	2.90	0.40
25:BA:2119:A:H5''	25:BA:2172:U:O2	2.21	0.40
55:D8:5:LYS:HE2	25:DA:242:G:N7	2.36	0.40
1:AA:1148:U:H4'	11:AI:14:VAL:HG11	2.02	0.40
25:DA:959:A:O2'	25:DA:960:A:H5'	2.21	0.40
25:BA:2115:G:N2	25:BA:2117:A:H8	2.19	0.40
46:DZ:137:ILE:N	46:DZ:137:ILE:HD12	2.37	0.40
25:DA:2358:G:C5	25:DA:2359:C:C5	3.09	0.40
1:AA:38:G:C2	1:AA:397:A:C2	3.09	0.40
1:CA:601:C:H2'	1:CA:602:A:C8	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BA:1071:G:H2'	25:BA:1072:C:C6	2.56	0.40
28:DE:131:ALA:O	28:DE:133:LYS:N	2.47	0.40
1:AA:115:G:H1'	1:AA:116:A:N7	2.35	0.40
25:DA:310:A:C6	25:DA:330:A:N1	2.89	0.40
25:BA:218:A:H2	25:BA:235:U:H4'	1.84	0.40
29:BF:164:ARG:O	29:BF:165:ARG:C	2.60	0.40
32:BI:79:ILE:HG22	32:BI:81:VAL:CG2	2.51	0.40
1:AA:197:A:N6	1:AA:221:C:H4'	2.36	0.40
2:CY:47:U:H3'	2:CY:48:C:C5'	2.51	0.40
41:BU:79:PHE:HE2	41:BU:106:PHE:CZ	2.39	0.40
1:AA:1263:C:H2'	1:AA:1264:C:C6	2.55	0.40
1:CA:1149:C:H6	1:CA:1149:C:O5'	2.04	0.40
25:DA:2396:G:O2'	25:DA:2397:G:H5'	2.22	0.40
49:B2:6:VAL:HA	49:B2:9:GLN:CD	2.41	0.40
38:DR:96:ARG:HH22	38:DR:117:VAL:HG23	1.85	0.40
50:B3:4:LEU:HD23	50:B3:4:LEU:HA	1.95	0.40
38:BR:21:TYR:HE2	38:BR:43:GLU:HB3	1.86	0.40
36:DP:112:LEU:C	36:DP:112:LEU:HD23	2.41	0.40
5:AC:152:ILE:HG23	5:AC:166:GLU:O	2.21	0.40
1:CA:402:G:C6	1:CA:403:C:C4	3.10	0.40
21:CS:11:VAL:HG22	21:CS:12:ASP:N	2.37	0.40
25:DA:968:G:H2'	25:DA:969:U:H6	1.86	0.40
25:DA:355:G:H2'	25:DA:356:G:H8	1.86	0.40
27:DD:271:ILE:N	27:DD:271:ILE:HD12	2.36	0.40
1:AA:298:A:C5	1:AA:299:G:C6	3.10	0.40
27:DD:135:PHE:O	27:DD:137:PRO:HD3	2.21	0.40
1:AA:402:G:C6	1:AA:403:C:C4	3.10	0.40
25:BA:88:G:N3	25:BA:88:G:H2'	2.35	0.40
9:AG:9:VAL:HG21	9:AG:94:ARG:HD2	2.03	0.40
53:D6:41:PRO:HD2	53:D6:46:HIS:H	1.86	0.40
30:DG:105:LYS:HE3	51:D4:52:SER:HB2	2.02	0.40
41:BU:21:ALA:HB2	41:BU:39:LEU:HD21	2.02	0.40
27:BD:181:GLU:O	27:BD:182:LEU:HD23	2.21	0.40
25:BA:1949:G:C6	25:BA:1950:G:C6	3.10	0.40
1:CA:868:C:H2'	1:CA:869:G:O4'	2.21	0.40
42:BV:1:MET:HA	42:BV:42:GLY:HA3	2.03	0.40
1:AA:424:G:H8	1:AA:424:G:O5'	2.04	0.40
53:B6:34:LEU:N	53:B6:34:LEU:HD13	2.36	0.40
12:CJ:90:LEU:N	12:CJ:91:PRO:CD	2.84	0.40
25:BA:522:G:C6	25:BA:523:C:C4	3.10	0.40
25:DA:1161:C:H2'	25:DA:1162:G:C8	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DP:138:LEU:C	36:DP:138:LEU:HD12	2.41	0.40
25:BA:2686:G:C2	25:BA:2724:C:O2	2.74	0.40
25:BA:1190:G:OP1	36:BP:32:THR:HG21	2.21	0.40
5:AC:18:TRP:CD1	16:AN:54:PRO:HA	2.57	0.40
1:AA:243:A:C8	1:AA:281:G:N2	2.90	0.40
1:CA:1227:A:OP1	15:CM:94:ARG:CZ	2.69	0.40
40:BT:24:PRO:HA	40:BT:49:VAL:CG1	2.50	0.40
25:BA:464:U:H2'	25:BA:465:G:O4'	2.22	0.40
40:DT:107:ASP:OD2	40:DT:109:GLU:HB2	2.22	0.40
46:DZ:163:LEU:O	46:DZ:163:LEU:HG	2.22	0.40
1:CA:690:G:C6	1:CA:691:G:C6	3.09	0.40
1:CA:68:G:H22	1:CA:101:A:H2	1.70	0.40
24:AX:5:LEU:HB3	24:AX:52:ARG:HH21	1.87	0.40
9:CG:70:LYS:HA	9:CG:71:PRO:HD2	1.84	0.40
25:DA:834:C:C2	25:DA:835:A:C8	3.09	0.40
25:BA:61:G:H8	25:BA:61:G:O5'	2.05	0.40
1:CA:194:C:C2'	1:CA:195:A:H5''	2.48	0.40
25:DA:61:G:O2'	25:DA:62:C:H5'	2.22	0.40
25:BA:1438:U:O2'	25:BA:1439:A:H5'	2.21	0.40
14:CL:83:LEU:CD1	14:CL:103:VAL:HG11	2.49	0.40
9:AG:12:LEU:N	9:AG:12:LEU:HD23	2.34	0.40
27:BD:165:ILE:HD12	27:BD:165:ILE:N	2.35	0.40
15:CM:91:ARG:NH2	15:CM:100:GLY:HA2	2.37	0.40
24:CX:191:ARG:HG2	24:CX:192:ILE:N	2.36	0.40
1:CA:620:C:H2'	1:CA:621:A:O4'	2.22	0.40
1:CA:714:G:C6	1:CA:715:A:N1	2.89	0.40
25:BA:784:A:OP1	25:BA:2588:G:H5''	2.22	0.40
54:B7:11:LYS:HZ1	54:B7:15:THR:HG21	1.85	0.40
44:BX:15:GLU:CD	44:BX:15:GLU:N	2.74	0.40
28:DE:171:GLU:HG2	28:DE:185:LYS:CG	2.50	0.40
25:DA:656:G:C5	25:DA:657:U:C4	3.10	0.40
25:BA:335:C:H4'	45:BY:73:ARG:HD2	2.03	0.40
25:DA:1269:A:H2'	25:DA:1270:C:C6	2.57	0.40
25:BA:1090:U:H2'	25:BA:1091:G:H8	1.82	0.40
33:DJ:4:LYS:O	33:DJ:8:GLU:HG3	2.22	0.40
10:AH:31:PHE:O	10:AH:35:ILE:HG12	2.21	0.40
1:AA:358:U:C5'	1:AA:358:U:C6	3.05	0.40
1:AA:359:U:H2'	1:AA:360:A:C8	2.55	0.40
25:DA:428:A:N6	25:DA:429:A:C6	2.90	0.40
25:BA:563:G:C6	25:BA:2018:G:C5	3.09	0.40
25:DA:1071:G:H2'	25:DA:1072:C:C6	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:CQ:73:VAL:HG12	19:CQ:74:LEU:N	2.36	0.40
25:DA:1197:G:H1'	25:DA:1250:G:N2	2.36	0.40
4:CB:153:ARG:CZ	4:CB:153:ARG:HB2	2.52	0.40
34:DN:161:LEU:N	34:DN:161:LEU:HD23	2.36	0.40
1:AA:819:A:H4'	1:AA:820:U:OP2	2.21	0.40
30:BG:173:LEU:HD23	30:BG:176:LEU:HD12	2.04	0.40
25:DA:2262:U:H2'	25:DA:2263:C:C6	2.56	0.40
29:BF:73:ALA:O	29:BF:74:ARG:HB2	2.22	0.40
25:DA:561:G:C2'	25:DA:562:U:H5'	2.51	0.40
2:AZ:31:G:H2'	2:AZ:32:C:O4'	2.22	0.40
1:AA:1263:C:H2'	1:AA:1264:C:H6	1.86	0.40
46:DZ:178:GLU:O	46:DZ:179:ASP:O	2.39	0.40
25:DA:677:A:C5	25:DA:678:C:C5	3.10	0.40
25:BA:2125:G:H1'	25:BA:2173:A:H61	1.86	0.40
17:AO:25:THR:O	17:AO:29:VAL:HG23	2.20	0.40
25:DA:2125:G:H1'	25:DA:2173:A:H61	1.86	0.40
1:CA:186(G):C:H2'	1:CA:187:C:O4'	2.20	0.40
25:DA:573:G:O2'	25:DA:574:C:H3'	2.21	0.40
6:CD:96:LEU:HD22	6:CD:96:LEU:N	2.37	0.40
25:DA:2368:C:H2'	25:DA:2369:A:C8	2.56	0.40
11:AI:46:ALA:HB2	11:AI:74:ILE:CG2	2.51	0.40
25:DA:876:C:H2'	25:DA:877:U:O4'	2.21	0.40
24:AX:229:GLY:C	24:AX:231:GLY:H	2.24	0.40
2:AY:11:A:O2'	25:BA:1909:C:H1'	2.22	0.40
10:CH:38:ILE:HD12	10:CH:118:VAL:HG12	2.03	0.40
2:CZ:31:G:H2'	2:CZ:32:C:O4'	2.21	0.40
25:BA:2532:G:C6	25:BA:2533:A:C5	3.10	0.40
4:AB:52:GLU:O	4:AB:56:ARG:HG3	2.21	0.40
25:DA:2836:U:C4	25:DA:2883:A:N6	2.90	0.40
25:DA:2839:G:H2'	25:DA:2840:C:C6	2.55	0.40
1:AA:1003:G:N2	1:AA:1038:C:C2	2.89	0.40
3:CV:16:A:C6	2:CY:37:A:C2	3.10	0.40
32:BI:10:GLU:HG2	32:BI:10:GLU:H	1.70	0.40
4:CB:87:ARG:HD2	4:CB:87:ARG:O	2.21	0.40
48:B1:52:ARG:HD3	48:B1:52:ARG:N	2.37	0.40
25:DA:76:C:H2'	25:DA:77:C:H6	1.86	0.40
1:AA:1179:A:H2'	1:AA:1180:A:O4'	2.22	0.40
37:DQ:52:VAL:HG13	37:DQ:53:ALA:N	2.36	0.40
41:BU:94:ASN:OD1	41:BU:94:ASN:C	2.60	0.40
49:D2:23:LYS:O	49:D2:27:GLU:HG3	2.21	0.40
25:BA:274:G:C8	25:BA:274:G:H5''	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DP:143:GLY:C	36:DP:145:PRO:HD3	2.42	0.40
29:BF:81:PRO:C	29:BF:83:PHE:H	2.25	0.40
50:D3:28:LEU:HA	50:D3:33:GLN:OE1	2.22	0.40
25:BA:1494:A:H4'	25:BA:1495:A:OP1	2.22	0.40
28:BE:51:PHE:CD1	28:BE:52:LEU:HG	2.55	0.40
25:BA:2029:G:H2'	25:BA:2031:A:OP2	2.22	0.40
1:AA:1252:A:H2'	1:AA:1253:G:O4'	2.22	0.40
1:AA:1511:G:H2'	1:AA:1512:U:O4'	2.21	0.40
51:D4:43:GLY:N	51:D4:60:GLU:HA	2.36	0.40
25:BA:1151:G:H5''	41:BU:81:HIS:CE1	2.57	0.40
40:DT:64:ARG:NH1	40:DT:102:ILE:HG13	2.36	0.40
25:DA:1021:A:C3'	25:DA:1021:A:C8	3.04	0.40
48:D1:53:VAL:HG22	48:D1:74:VAL:HG13	2.03	0.40
6:CD:36:ARG:C	6:CD:38:TYR:H	2.24	0.40
6:AD:36:ARG:C	6:AD:38:TYR:H	2.24	0.40
48:B1:27:GLU:CB	48:B1:33:LYS:HG3	2.51	0.40
25:DA:2075:U:C4	25:DA:2238:G:C6	3.10	0.40
14:CL:69:ILE:HD12	14:CL:69:ILE:N	2.36	0.40
1:CA:579:G:H2'	1:CA:580:U:H6	1.87	0.40
26:DB:81:G:N1	26:DB:96:G:C2	2.90	0.40
25:BA:1750:G:C2	25:BA:1751:C:C4	3.10	0.40
25:DA:55:G:C2	25:DA:116:C:C2	3.09	0.40
36:BP:29:LYS:HD2	36:BP:29:LYS:N	2.36	0.40
1:AA:744:C:H2'	1:AA:745:C:H6	1.85	0.40
25:BA:1230:C:C2	25:BA:1231:G:N7	2.89	0.40
25:BA:1972:A:H2'	25:BA:1973:G:H8	1.85	0.40
25:DA:379:G:C5	25:DA:380:U:C5	3.10	0.40
25:DA:655:A:C2'	25:DA:656:G:H5'	2.51	0.40
1:CA:358:U:C5'	1:CA:358:U:C6	3.05	0.40
25:BA:1511:A:O5'	25:BA:1511:A:H8	2.04	0.40
25:BA:2562:U:O2'	25:BA:2563:U:H5'	2.22	0.40
1:CA:815:A:C2	1:CA:1529:G:C4	3.08	0.40
45:DY:19:LYS:HG3	25:DA:329:G:H1	1.85	0.40
25:DA:756:C:C2	25:DA:757:U:C6	3.09	0.40
1:CA:1201:A:O2'	1:CA:1202:G:OP2	2.36	0.40
36:BP:26:GLY:HA2	36:BP:30:THR:CG2	2.51	0.40
10:AH:75:ARG:HA	10:AH:76:PRO:HD2	1.81	0.40
25:DA:2869:G:H2'	25:DA:2870:C:H6	1.86	0.40
1:CA:406:G:H2'	1:CA:407:G:C8	2.56	0.40
9:CG:122:HIS:HA	9:CG:125:MET:CE	2.51	0.40
2:AY:47:U:H3'	2:AY:48:C:C5'	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DW:23:LEU:HD11	52:D5:25:LEU:HB2	2.03	0.40
25:BA:951:C:H2'	25:BA:952:G:C8	2.56	0.40
7:AE:31:LEU:HD23	7:AE:32:VAL:N	2.37	0.40
25:BA:2756:U:H1'	25:BA:2757:A:H5''	2.03	0.40
1:AA:1438:G:H2'	1:AA:1439:C:C6	2.56	0.40
2:CY:72:A:N6	2:CY:73:A:C6	2.90	0.40
1:CA:1109:C:H2'	1:CA:1110:A:O4'	2.21	0.40
25:BA:593:G:O2'	55:B8:62:LEU:HD13	2.22	0.40
24:AX:229:GLY:C	24:AX:231:GLY:N	2.75	0.40
1:AA:636:U:H5'	19:AQ:2:PRO:HD3	2.03	0.40
25:DA:2350:C:H2'	25:DA:2351:G:O4'	2.22	0.40
42:DV:62:LEU:HB3	42:DV:93:GLU:HB2	2.03	0.40
1:AA:101:A:C6	1:AA:102:G:N7	2.90	0.40
25:DA:1990:C:H2'	25:DA:1991:U:C6	2.56	0.40
37:BQ:54:MET:SD	37:BQ:118:LEU:HD23	2.62	0.40
1:CA:1006:C:H2'	1:CA:1007:C:C6	2.57	0.40
25:DA:2584:U:O2	25:DA:2585:U:C4	2.74	0.40
25:BA:962:G:H2'	25:BA:963:U:O4'	2.20	0.40
26:DB:33:G:O2'	26:DB:34:U:H5'	2.22	0.40
14:CL:118:LYS:HB3	14:CL:118:LYS:HE2	1.91	0.40
29:DF:179:GLU:H	29:DF:179:GLU:CD	2.25	0.40
15:CM:66:LEU:HD23	15:CM:66:LEU:N	2.36	0.40
1:CA:1163:C:O5'	1:CA:1163:C:H6	2.05	0.40
27:BD:175:LEU:HA	27:BD:175:LEU:HD23	1.93	0.40
7:CE:12:LEU:HD22	7:CE:12:LEU:C	2.42	0.40
10:AH:13:ILE:HD12	10:AH:13:ILE:H	1.86	0.40
28:BE:2:LYS:HD3	28:BE:95:ILE:HG22	2.03	0.40
54:B7:18:PHE:CE2	54:B7:22:MET:HG3	2.56	0.40
25:DA:2604:U:O2'	25:DA:2605:U:H5'	2.22	0.40
6:CD:68:TYR:O	6:CD:69:GLY:C	2.59	0.40
25:DA:1813:G:H2'	25:DA:1814:G:O4'	2.21	0.40
45:BY:75:ILE:HG13	45:BY:80:GLY:N	2.13	0.40
44:BX:44:GLU:HA	44:BX:49:VAL:O	2.20	0.40
11:AI:28:VAL:HG13	11:AI:63:ILE:HG22	2.03	0.40
4:CB:71:VAL:HG23	4:CB:164:VAL:HG13	2.03	0.40
25:BA:84:A:H62	25:BA:102:G:H21	1.70	0.40
1:AA:521:G:H2'	1:AA:522:C:H6	1.85	0.40
14:CL:52:ARG:N	14:CL:52:ARG:HD2	2.36	0.40
4:AB:88:ALA:HA	4:AB:223:ILE:HD11	2.04	0.40
25:BA:1693:U:C4	25:BA:1977:A:C4	3.10	0.40
1:CA:1486:G:H2'	1:CA:1487:G:O4'	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DI:5:LEU:HD23	32:DI:5:LEU:N	2.28	0.40
11:CI:89:ASN:HB3	11:CI:92:TYR:CD1	2.57	0.40
1:CA:1509:C:H2'	1:CA:1510:U:O4'	2.21	0.40
36:DP:47:ASP:HB3	36:DP:48:PRO:CA	2.52	0.40
32:BI:128:LEU:HG	32:BI:142:VAL:HG21	2.03	0.40
43:DW:18:ARG:NH1	43:DW:76:VAL:HG13	2.36	0.40
27:DD:30:GLU:HG3	27:DD:63:ARG:NH2	2.31	0.40
25:BA:443:A:C4	29:BF:45:ARG:NH1	2.90	0.40
40:DT:108:ARG:HA	40:DT:111:ARG:HG3	2.04	0.40
20:CR:71:LYS:HA	20:CR:74:ARG:HD3	2.03	0.40
37:DQ:38:GLU:H	37:DQ:127:ILE:CG2	2.35	0.40
25:DA:189:G:N2	25:DA:208:C:N4	2.69	0.40
25:DA:2399:G:C6	25:DA:2400:G:C5	3.09	0.40
52:D5:19:ARG:NH2	25:DA:1264:G:OP1	2.54	0.40
25:BA:1265:A:H3'	52:B5:19:ARG:HH11	1.86	0.40
53:B6:38:LYS:HG2	53:B6:39:TYR:N	2.37	0.40
21:AS:63:THR:H	21:AS:66:MET:CG	2.33	0.40
15:AM:91:ARG:NH2	15:AM:100:GLY:HA2	2.36	0.40
12:AJ:6:ILE:O	12:AJ:71:LEU:HD12	2.21	0.40
25:BA:1022:G:HO2'	25:BA:1023:U:P	2.43	0.40
36:DP:10:PRO:CD	36:DP:11:GLY:H	2.34	0.40
4:CB:157:ARG:O	4:CB:159:PRO:HD3	2.21	0.40
25:BA:216:A:N7	25:BA:432:A:C6	2.89	0.40
25:BA:2291:U:O5'	25:BA:2291:U:H6	2.04	0.40
1:AA:253:U:H2'	1:AA:254:G:C8	2.57	0.40
25:BA:657:U:C4	25:BA:658:C:N4	2.89	0.40
1:CA:232:G:H1'	1:CA:262:A:N1	2.36	0.40
25:BA:856:C:H4'	47:B0:27:GLU:HB3	2.02	0.40
28:DE:82:ARG:HH22	25:DA:2638:G:P	2.44	0.40
29:BF:28:ILE:HG13	29:BF:28:ILE:O	2.22	0.40
1:AA:643:C:O5'	1:AA:643:C:H6	2.04	0.40
1:AA:998(B):C:H2'	1:AA:999:U:C6	2.57	0.40
1:CA:1417:G:C6	1:CA:1482:G:C6	3.10	0.40
31:DH:96:ALA:CB	31:DH:105:LEU:HB3	2.51	0.40
25:DA:755:C:H2'	25:DA:756:C:C6	2.56	0.40
29:DF:161:GLU:O	29:DF:164:ARG:HB2	2.20	0.40
31:BH:96:ALA:CB	31:BH:105:LEU:HB3	2.52	0.40
7:CE:87:SER:HB3	7:CE:131:ILE:HD13	2.02	0.40
2:AZ:33:U:H4'	9:AG:84:ASN:ND2	2.37	0.40
25:BA:363(G):A:H4'	25:BA:364:C:H5'	2.02	0.40
46:BZ:146:ILE:HG22	46:BZ:174:VAL:HG12	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:68:LYS:O	27:BD:70:TRP:N	2.54	0.40
25:DA:797:C:H2'	25:DA:798:G:O4'	2.22	0.40
46:BZ:54:HIS:HB3	46:BZ:101:PRO:HD3	2.03	0.40
40:BT:57:PHE:O	40:BT:58:ASN:C	2.59	0.40
12:AJ:25:GLU:O	12:AJ:29:ARG:HB3	2.20	0.40
7:AE:10:MET:SD	7:AE:10:MET:N	2.91	0.40
1:AA:590:C:H2'	1:AA:591:U:C6	2.57	0.40
25:BA:270(L):C:H6	25:BA:270(L):C:O5'	2.04	0.40
1:CA:1197:G:C2	1:CA:1198:G:C8	3.09	0.40
1:AA:27:G:H8	1:AA:27:G:O5'	2.04	0.40
5:AC:152:ILE:HG12	5:AC:167:TRP:HA	2.03	0.40
25:BA:1289:C:H2'	25:BA:1290:C:C6	2.56	0.40
25:BA:1661:G:C6	25:BA:1662:C:C4	3.09	0.40
1:CA:1416:G:C2	1:CA:1485:U:O2	2.75	0.40
25:DA:1648:C:H2'	25:DA:1649:G:O4'	2.21	0.40
43:DW:79:GLY:HA2	25:DA:25:U:H5'	2.03	0.40
25:BA:521:G:H2'	25:BA:522:G:C8	2.56	0.40
25:DA:2524:G:N2	25:DA:2525:G:H1'	2.37	0.40
53:B6:9:LEU:HD23	53:B6:10:LEU:N	2.37	0.40
3:AV:16:A:C6	2:AY:37:A:C2	3.10	0.40
25:BA:2851:A:C5	25:BA:2852:G:C5	3.10	0.40
1:CA:721:G:C6	1:CA:733:A:C2	3.10	0.40
46:DZ:31:ARG:HG3	46:DZ:32:HIS:CD2	2.57	0.40
24:AX:145:LEU:HB2	24:AX:159:VAL:CG2	2.52	0.40
1:CA:636:U:H5'	19:CQ:2:PRO:HD3	2.03	0.40
37:DQ:84:GLY:HA3	47:D0:10:THR:CG2	2.51	0.40
1:AA:868:C:H2'	1:AA:869:G:O4'	2.21	0.40
6:CD:196:LEU:C	6:CD:198:VAL:H	2.25	0.40
1:CA:1003:G:N2	1:CA:1038:C:C2	2.90	0.40
13:AK:32:ILE:HG13	13:AK:72:ALA:HB2	2.03	0.40
13:AK:15:ALA:HB1	13:AK:78:GLN:HB2	2.02	0.40
26:BB:62:C:H2'	26:BB:63:G:H8	1.85	0.40
25:BA:144(B):A:H5''	25:BA:1445:C:H5	1.86	0.40
1:AA:1269:A:H2	1:AA:1312:G:N3	2.20	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	AB	232/256 (91%)	186 (80%)	37 (16%)	9 (4%)	4	28
4	CB	232/256 (91%)	188 (81%)	37 (16%)	7 (3%)	5	35
5	AC	204/239 (85%)	156 (76%)	36 (18%)	12 (6%)	2	16
5	CC	204/239 (85%)	155 (76%)	38 (19%)	11 (5%)	2	19
6	AD	206/209 (99%)	163 (79%)	31 (15%)	12 (6%)	2	17
6	CD	206/209 (99%)	163 (79%)	30 (15%)	13 (6%)	2	13
7	AE	149/162 (92%)	122 (82%)	24 (16%)	3 (2%)	9	48
7	CE	149/162 (92%)	122 (82%)	24 (16%)	3 (2%)	9	48
8	AF	99/101 (98%)	85 (86%)	13 (13%)	1 (1%)	19	65
8	CF	99/101 (98%)	85 (86%)	13 (13%)	1 (1%)	19	65
9	AG	153/156 (98%)	125 (82%)	24 (16%)	4 (3%)	7	40
9	CG	153/156 (98%)	127 (83%)	22 (14%)	4 (3%)	7	40
10	AH	136/138 (99%)	118 (87%)	17 (12%)	1 (1%)	26	72
10	CH	136/138 (99%)	118 (87%)	18 (13%)	0	100	100
11	AI	125/128 (98%)	100 (80%)	23 (18%)	2 (2%)	12	54
11	CI	125/128 (98%)	101 (81%)	22 (18%)	2 (2%)	12	54
12	AJ	96/105 (91%)	73 (76%)	18 (19%)	5 (5%)	2	19
12	CJ	96/105 (91%)	73 (76%)	18 (19%)	5 (5%)	2	19
13	AK	117/129 (91%)	97 (83%)	18 (15%)	2 (2%)	11	52
13	CK	117/129 (91%)	96 (82%)	19 (16%)	2 (2%)	11	52
14	AL	122/134 (91%)	88 (72%)	26 (21%)	8 (7%)	1	12
14	CL	122/134 (91%)	88 (72%)	26 (21%)	8 (7%)	1	12
15	AM	115/126 (91%)	92 (80%)	16 (14%)	7 (6%)	2	15
15	CM	115/126 (91%)	92 (80%)	16 (14%)	7 (6%)	2	15
16	AN	58/61 (95%)	45 (78%)	8 (14%)	5 (9%)	1	6

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
16	CN	58/61 (95%)	45 (78%)	8 (14%)	5 (9%)	1	6
17	AO	86/89 (97%)	70 (81%)	15 (17%)	1 (1%)	16	60
17	CO	86/89 (97%)	69 (80%)	16 (19%)	1 (1%)	16	60
18	AP	81/88 (92%)	65 (80%)	14 (17%)	2 (2%)	7	41
18	CP	81/88 (92%)	65 (80%)	14 (17%)	2 (2%)	7	41
19	AQ	97/105 (92%)	87 (90%)	8 (8%)	2 (2%)	9	46
19	CQ	97/105 (92%)	86 (89%)	9 (9%)	2 (2%)	9	46
20	AR	68/88 (77%)	53 (78%)	13 (19%)	2 (3%)	6	36
20	CR	68/88 (77%)	52 (76%)	14 (21%)	2 (3%)	6	36
21	AS	76/93 (82%)	53 (70%)	16 (21%)	7 (9%)	1	5
21	CS	76/93 (82%)	53 (70%)	16 (21%)	7 (9%)	1	5
22	AT	97/106 (92%)	79 (81%)	14 (14%)	4 (4%)	3	27
22	CT	97/106 (92%)	79 (81%)	14 (14%)	4 (4%)	3	27
23	AU	22/27 (82%)	18 (82%)	3 (14%)	1 (4%)	3	24
23	CU	22/27 (82%)	18 (82%)	3 (14%)	1 (4%)	3	24
24	AX	352/354 (99%)	297 (84%)	44 (12%)	11 (3%)	5	34
24	CX	352/354 (99%)	296 (84%)	45 (13%)	11 (3%)	5	34
27	BD	269/276 (98%)	213 (79%)	40 (15%)	16 (6%)	2	16
27	DD	269/276 (98%)	213 (79%)	40 (15%)	16 (6%)	2	16
28	BE	202/206 (98%)	151 (75%)	41 (20%)	10 (5%)	3	21
28	DE	202/206 (98%)	151 (75%)	42 (21%)	9 (4%)	3	24
29	BF	200/210 (95%)	158 (79%)	35 (18%)	7 (4%)	4	31
29	DF	200/210 (95%)	158 (79%)	35 (18%)	7 (4%)	4	31
30	BG	179/182 (98%)	127 (71%)	42 (24%)	10 (6%)	2	18
30	DG	179/182 (98%)	124 (69%)	44 (25%)	11 (6%)	2	15
31	BH	157/180 (87%)	126 (80%)	24 (15%)	7 (4%)	3	24
31	DH	157/180 (87%)	126 (80%)	24 (15%)	7 (4%)	3	24
32	BI	143/148 (97%)	111 (78%)	25 (18%)	7 (5%)	3	22
32	DI	143/148 (97%)	112 (78%)	24 (17%)	7 (5%)	3	22
33	BJ	28/173 (16%)	27 (96%)	1 (4%)	0	100	100
33	DJ	28/173 (16%)	27 (96%)	1 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
34	BN	135/163 (83%)	100 (74%)	27 (20%)	8 (6%)	2	16
34	DN	135/163 (83%)	100 (74%)	27 (20%)	8 (6%)	2	16
35	BO	120/122 (98%)	101 (84%)	18 (15%)	1 (1%)	24	69
35	DO	120/122 (98%)	101 (84%)	18 (15%)	1 (1%)	24	69
36	BP	144/150 (96%)	82 (57%)	44 (31%)	18 (12%)	0	2
36	DP	144/150 (96%)	82 (57%)	45 (31%)	17 (12%)	0	3
37	BQ	134/141 (95%)	86 (64%)	36 (27%)	12 (9%)	1	5
37	DQ	134/141 (95%)	87 (65%)	35 (26%)	12 (9%)	1	5
38	BR	115/118 (98%)	92 (80%)	18 (16%)	5 (4%)	3	25
38	DR	115/118 (98%)	91 (79%)	18 (16%)	6 (5%)	2	19
39	BS	96/112 (86%)	62 (65%)	24 (25%)	10 (10%)	1	4
39	DS	96/112 (86%)	61 (64%)	25 (26%)	10 (10%)	1	4
40	BT	135/146 (92%)	102 (76%)	29 (22%)	4 (3%)	5	35
40	DT	135/146 (92%)	103 (76%)	28 (21%)	4 (3%)	5	35
41	BU	115/118 (98%)	90 (78%)	21 (18%)	4 (4%)	4	31
41	DU	115/118 (98%)	89 (77%)	22 (19%)	4 (4%)	4	31
42	BV	99/101 (98%)	69 (70%)	21 (21%)	9 (9%)	1	5
42	DV	99/101 (98%)	69 (70%)	21 (21%)	9 (9%)	1	5
43	BW	110/113 (97%)	91 (83%)	17 (16%)	2 (2%)	11	51
43	DW	110/113 (97%)	91 (83%)	17 (16%)	2 (2%)	11	51
44	BX	90/96 (94%)	69 (77%)	20 (22%)	1 (1%)	17	62
44	DX	90/96 (94%)	69 (77%)	20 (22%)	1 (1%)	17	62
45	BY	98/110 (89%)	65 (66%)	21 (21%)	12 (12%)	0	2
45	DY	98/110 (89%)	65 (66%)	21 (21%)	12 (12%)	0	2
46	BZ	186/206 (90%)	142 (76%)	34 (18%)	10 (5%)	2	19
46	DZ	186/206 (90%)	142 (76%)	34 (18%)	10 (5%)	2	19
47	B0	74/85 (87%)	55 (74%)	14 (19%)	5 (7%)	1	11
47	D0	74/85 (87%)	55 (74%)	14 (19%)	5 (7%)	1	11
48	B1	86/98 (88%)	53 (62%)	27 (31%)	6 (7%)	1	10
48	D1	86/98 (88%)	53 (62%)	28 (33%)	5 (6%)	2	17
49	B2	70/72 (97%)	48 (69%)	16 (23%)	6 (9%)	1	6

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
49	D2	70/72 (97%)	48 (69%)	16 (23%)	6 (9%)	1	6
50	B3	57/60 (95%)	43 (75%)	13 (23%)	1 (2%)	11	51
50	D3	57/60 (95%)	44 (77%)	12 (21%)	1 (2%)	11	51
51	B4	28/97 (29%)	14 (50%)	11 (39%)	3 (11%)	0	3
51	D4	28/97 (29%)	14 (50%)	11 (39%)	3 (11%)	0	3
52	B5	50/60 (83%)	36 (72%)	12 (24%)	2 (4%)	4	27
52	D5	50/60 (83%)	36 (72%)	12 (24%)	2 (4%)	4	27
53	B6	42/54 (78%)	31 (74%)	8 (19%)	3 (7%)	1	10
53	D6	42/54 (78%)	31 (74%)	8 (19%)	3 (7%)	1	10
54	B7	46/49 (94%)	39 (85%)	7 (15%)	0	100	100
54	D7	46/49 (94%)	39 (85%)	7 (15%)	0	100	100
55	B8	61/65 (94%)	42 (69%)	15 (25%)	4 (7%)	1	12
55	D8	61/65 (94%)	42 (69%)	15 (25%)	4 (7%)	1	12
All	All	11920/13210 (90%)	9191 (77%)	2165 (18%)	564 (5%)	3	22

All (564) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
5	AC	47	LEU
12	AJ	75	ILE
15	AM	4	ILE
15	AM	106	ASN
15	AM	117	VAL
16	AN	26	ARG
22	AT	71	THR
24	AX	300	GLU
24	AX	301	LYS
27	BD	33	LEU
27	BD	35	LYS
27	BD	244	ARG
28	BE	16	ARG
28	BE	86	PRO
29	BF	73	ALA
29	BF	84	VAL
30	BG	75	LYS
30	BG	87	PRO
31	BH	92	ILE

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Mol	Chain	Res	Type
32	BI	89	TYR
32	BI	91	SER
34	BN	89	LYS
34	BN	116	THR
34	BN	149	PRO
34	BN	153	HIS
36	BP	15	ARG
37	BQ	10	ARG
37	BQ	21	THR
37	BQ	133	ARG
37	BQ	139	GLU
39	BS	12	PHE
39	BS	91	PRO
41	BU	90	VAL
42	BV	53	GLU
43	BW	110	LYS
44	BX	93	GLU
45	BY	3	VAL
45	BY	7	VAL
45	BY	88	LYS
46	BZ	168	GLU
46	BZ	179	ASP
47	B0	32	ARG
47	B0	47	PRO
49	B2	17	SER
53	B6	31	PRO
5	CC	47	LEU
12	CJ	75	ILE
15	CM	4	ILE
15	CM	106	ASN
15	CM	117	VAL
16	CN	26	ARG
22	CT	71	THR
24	CX	300	GLU
24	CX	301	LYS
27	DD	33	LEU
27	DD	35	LYS
27	DD	244	ARG
28	DE	16	ARG
28	DE	86	PRO
29	DF	73	ALA
29	DF	84	VAL

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Mol	Chain	Res	Type
30	DG	75	LYS
30	DG	87	PRO
31	DH	92	ILE
32	DI	89	TYR
32	DI	91	SER
34	DN	89	LYS
34	DN	116	THR
34	DN	149	PRO
34	DN	153	HIS
36	DP	15	ARG
37	DQ	10	ARG
37	DQ	21	THR
37	DQ	133	ARG
37	DQ	139	GLU
39	DS	12	PHE
39	DS	91	PRO
41	DU	90	VAL
42	DV	53	GLU
43	DW	110	LYS
44	DX	93	GLU
45	DY	3	VAL
45	DY	7	VAL
45	DY	88	LYS
46	DZ	168	GLU
46	DZ	179	ASP
47	D0	32	ARG
47	D0	47	PRO
49	D2	17	SER
53	D6	31	PRO
4	AB	150	SER
5	AC	15	THR
5	AC	45	LYS
5	AC	179	ARG
6	AD	43	HIS
6	AD	86	LYS
6	AD	137	SER
6	AD	138	TYR
6	AD	171	GLY
7	AE	85	GLY
13	AK	49	GLY
14	AL	12	LYS
14	AL	17	VAL

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Mol	Chain	Res	Type
14	AL	51	LEU
15	AM	63	THR
15	AM	116	THR
16	AN	15	LYS
16	AN	28	GLY
18	AP	44	THR
19	AQ	67	LYS
20	AR	78	LEU
21	AS	28	LYS
21	AS	31	ILE
24	AX	209	ASP
24	AX	299	SER
27	BD	26	LYS
27	BD	69	ARG
27	BD	106	ILE
27	BD	197	GLY
27	BD	206	LEU
27	BD	239	ARG
29	BF	166	ALA
30	BG	14	GLU
31	BH	165	ALA
32	BI	90	GLY
34	BN	148	GLY
36	BP	57	THR
36	BP	65	ARG
36	BP	141	ALA
36	BP	148	LEU
36	BP	149	GLU
37	BQ	7	MET
37	BQ	15	GLY
37	BQ	18	LYS
38	BR	14	SER
38	BR	57	ARG
38	BR	58	GLY
39	BS	59	LYS
39	BS	90	GLY
39	BS	101	LEU
40	BT	58	ASN
40	BT	115	ARG
41	BU	24	TYR
41	BU	26	GLY
42	BV	78	LYS

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Mol	Chain	Res	Type
43	BW	11	ARG
46	BZ	167	PRO
47	B0	73	GLY
49	B2	47	ASN
49	B2	58	ALA
53	B6	28	ARG
53	B6	51	GLU
55	B8	35	GLN
4	CB	150	SER
5	CC	15	THR
5	CC	45	LYS
5	CC	179	ARG
6	CD	43	HIS
6	CD	137	SER
6	CD	138	TYR
6	CD	171	GLY
7	CE	85	GLY
13	CK	49	GLY
14	CL	12	LYS
14	CL	17	VAL
14	CL	51	LEU
15	CM	63	THR
15	CM	116	THR
16	CN	15	LYS
16	CN	28	GLY
18	CP	44	THR
19	CQ	67	LYS
20	CR	78	LEU
21	CS	28	LYS
21	CS	31	ILE
24	CX	209	ASP
24	CX	299	SER
27	DD	26	LYS
27	DD	69	ARG
27	DD	106	ILE
27	DD	197	GLY
27	DD	206	LEU
27	DD	239	ARG
29	DF	166	ALA
30	DG	14	GLU
31	DH	165	ALA
32	DI	90	GLY

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Mol	Chain	Res	Type
34	DN	148	GLY
36	DP	57	THR
36	DP	65	ARG
36	DP	141	ALA
36	DP	148	LEU
36	DP	149	GLU
37	DQ	7	MET
37	DQ	15	GLY
37	DQ	18	LYS
38	DR	3	HIS
38	DR	14	SER
38	DR	57	ARG
38	DR	58	GLY
39	DS	44	LYS
39	DS	59	LYS
39	DS	90	GLY
39	DS	101	LEU
40	DT	58	ASN
40	DT	115	ARG
41	DU	24	TYR
41	DU	26	GLY
42	DV	78	LYS
43	DW	11	ARG
45	DY	42	VAL
46	DZ	167	PRO
47	D0	73	GLY
49	D2	47	ASN
49	D2	58	ALA
53	D6	28	ARG
53	D6	51	GLU
55	D8	35	GLN
4	AB	20	GLU
4	AB	135	GLN
5	AC	4	LYS
6	AD	30	LYS
7	AE	38	GLN
9	AG	7	ALA
11	AI	58	ARG
12	AJ	92	THR
16	AN	14	PRO
17	AO	86	GLY
21	AS	27	GLU

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Mol	Chain	Res	Type
22	AT	98	PRO
23	AU	9	ARG
24	AX	235	THR
24	AX	236	ASP
24	AX	293	ILE
27	BD	70	TRP
27	BD	198	ASN
27	BD	260	ARG
28	BE	43	GLY
28	BE	51	PHE
28	BE	132	HIS
28	BE	187	ALA
29	BF	8	GLN
29	BF	74	ARG
29	BF	82	ILE
30	BG	8	LYS
30	BG	142	PRO
30	BG	181	ARG
31	BH	21	PRO
32	BI	10	GLU
36	BP	10	PRO
36	BP	17	LYS
36	BP	25	SER
36	BP	46	LYS
36	BP	58	THR
37	BQ	62	GLY
37	BQ	81	VAL
38	BR	3	HIS
38	BR	8	ARG
39	BS	44	LYS
39	BS	94	TYR
42	BV	29	PRO
45	BY	39	VAL
45	BY	42	VAL
45	BY	50	ARG
45	BY	56	PRO
48	B1	31	GLY
48	B1	85	LEU
48	B1	87	PRO
49	B2	44	LEU
52	B5	35	GLU
55	B8	3	LYS

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Mol	Chain	Res	Type
55	B8	34	TRP
4	CB	20	GLU
5	CC	4	LYS
6	CD	30	LYS
6	CD	86	LYS
7	CE	38	GLN
9	CG	7	ALA
11	CI	58	ARG
12	CJ	92	THR
16	CN	14	PRO
17	CO	86	GLY
21	CS	27	GLU
22	CT	98	PRO
23	CU	9	ARG
24	CX	235	THR
24	CX	236	ASP
24	CX	293	ILE
27	DD	70	TRP
27	DD	198	ASN
27	DD	260	ARG
28	DE	43	GLY
28	DE	51	PHE
28	DE	132	HIS
28	DE	187	ALA
29	DF	8	GLN
29	DF	74	ARG
29	DF	82	ILE
30	DG	8	LYS
30	DG	142	PRO
30	DG	181	ARG
31	DH	21	PRO
32	DI	10	GLU
36	DP	10	PRO
36	DP	17	LYS
36	DP	25	SER
36	DP	46	LYS
36	DP	58	THR
37	DQ	62	GLY
37	DQ	81	VAL
38	DR	8	ARG
39	DS	94	TYR
42	DV	29	PRO

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Mol	Chain	Res	Type
45	DY	39	VAL
45	DY	50	ARG
45	DY	56	PRO
46	DZ	11	GLU
48	D1	31	GLY
48	D1	85	LEU
48	D1	87	PRO
49	D2	44	LEU
52	D5	35	GLU
55	D8	34	TRP
5	AC	127	ARG
5	AC	131	ARG
6	AD	168	ARG
6	AD	186	LEU
9	AG	4	ARG
9	AG	100	ALA
13	AK	90	GLY
14	AL	18	ARG
15	AM	59	TYR
21	AS	29	ARG
21	AS	61	TYR
22	AT	9	ASN
22	AT	97	ALA
24	AX	175	SER
28	BE	18	ASP
28	BE	173	VAL
30	BG	84	LYS
30	BG	126	ASP
34	BN	41	ALA
35	BO	26	LYS
36	BP	11	GLY
36	BP	47	ASP
36	BP	52	GLU
36	BP	70	GLN
39	BS	57	LYS
39	BS	62	LYS
40	BT	36	GLU
42	BV	2	PHE
45	BY	17	SER
45	BY	76	CYS
45	BY	96	ILE
46	BZ	11	GLU

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Mol	Chain	Res	Type
46	BZ	78	LYS
46	BZ	165	VAL
46	BZ	177	PRO
46	BZ	180	VAL
48	B1	9	GLY
51	B4	44	CYS
4	CB	135	GLN
5	CC	127	ARG
5	CC	131	ARG
6	CD	168	ARG
6	CD	186	LEU
9	CG	4	ARG
9	CG	100	ALA
13	CK	90	GLY
14	CL	18	ARG
15	CM	59	TYR
21	CS	29	ARG
21	CS	61	TYR
22	CT	9	ASN
22	CT	97	ALA
24	CX	175	SER
27	DD	256	GLY
28	DE	18	ASP
28	DE	173	VAL
30	DG	84	LYS
30	DG	126	ASP
34	DN	41	ALA
35	DO	26	LYS
36	DP	11	GLY
36	DP	47	ASP
36	DP	52	GLU
36	DP	70	GLN
39	DS	57	LYS
39	DS	62	LYS
40	DT	36	GLU
42	DV	2	PHE
45	DY	17	SER
45	DY	76	CYS
45	DY	96	ILE
46	DZ	78	LYS
46	DZ	165	VAL
46	DZ	177	PRO

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Mol	Chain	Res	Type
46	DZ	180	VAL
48	D1	9	GLY
49	D2	21	LEU
51	D4	44	CYS
55	D8	3	LYS
4	AB	103	THR
4	AB	133	LYS
5	AC	60	ALA
5	AC	81	GLY
5	AC	129	ALA
6	AD	40	PRO
7	AE	70	PRO
12	AJ	54	PHE
14	AL	27	LYS
15	AM	101	GLN
19	AQ	3	LYS
24	AX	136	GLU
27	BD	125	ILE
27	BD	256	GLY
29	BF	187	VAL
31	BH	39	PRO
31	BH	164	TYR
32	BI	30	LEU
36	BP	59	LEU
36	BP	61	ARG
39	BS	85	VAL
40	BT	22	PHE
41	BU	9	VAL
42	BV	16	PRO
42	BV	94	LEU
45	BY	55	TYR
45	BY	90	LEU
46	BZ	80	ARG
47	B0	15	ASP
48	B1	53	VAL
49	B2	21	LEU
50	B3	29	ARG
51	B4	37	PRO
52	B5	45	VAL
4	CB	133	LYS
5	CC	60	ALA
5	CC	81	GLY

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Mol	Chain	Res	Type
5	CC	129	ALA
6	CD	40	PRO
7	CE	70	PRO
12	CJ	54	PHE
14	CL	27	LYS
15	CM	101	GLN
19	CQ	3	LYS
24	CX	136	GLU
27	DD	125	ILE
29	DF	187	VAL
30	DG	76	SER
31	DH	39	PRO
31	DH	164	TYR
32	DI	30	LEU
36	DP	59	LEU
39	DS	85	VAL
40	DT	22	PHE
41	DU	9	VAL
42	DV	16	PRO
42	DV	80	GLN
42	DV	94	LEU
45	DY	55	TYR
45	DY	90	LEU
46	DZ	80	ARG
47	D0	15	ASP
48	D1	53	VAL
50	D3	29	ARG
51	D4	37	PRO
51	D4	54	LYS
52	D5	45	VAL
55	D8	59	LYS
4	AB	130	ARG
4	AB	198	ASP
4	AB	234	PRO
5	AC	145	GLY
11	AI	100	GLY
14	AL	70	PRO
16	AN	18	VAL
28	BE	98	PRO
28	BE	157	ALA
30	BG	76	SER
30	BG	88	ILE

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Mol	Chain	Res	Type
34	BN	106	LYS
34	BN	150	ASP
36	BP	33	ARG
37	BQ	8	LYS
37	BQ	136	ALA
42	BV	80	GLN
48	B1	52	ARG
49	B2	50	ILE
51	B4	54	LYS
55	B8	59	LYS
4	CB	130	ARG
4	CB	234	PRO
5	CC	145	GLY
11	CI	100	GLY
14	CL	70	PRO
16	CN	18	VAL
28	DE	98	PRO
30	DG	88	ILE
34	DN	106	LYS
34	DN	150	ASP
36	DP	33	ARG
37	DQ	8	LYS
37	DQ	136	ALA
38	DR	12	ARG
49	D2	50	ILE
8	AF	81	ILE
12	AJ	49	VAL
12	AJ	53	PRO
14	AL	44	PRO
14	AL	120	GLY
21	AS	11	VAL
24	AX	302	ILE
27	BD	238	GLY
12	CJ	49	VAL
12	CJ	53	PRO
14	CL	44	PRO
14	CL	120	GLY
21	CS	11	VAL
24	CX	302	ILE
27	DD	238	GLY
31	DH	117	PRO
4	AB	15	VAL

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Mol	Chain	Res	Type
24	AX	228	GLY
31	BH	117	PRO
32	BI	8	PRO
37	BQ	73	PRO
42	BV	48	GLY
46	BZ	71	VAL
47	B0	36	ILE
4	CB	15	VAL
8	CF	81	ILE
24	CX	228	GLY
32	DI	8	PRO
37	DQ	73	PRO
46	DZ	71	VAL
47	D0	36	ILE
6	AD	37	PRO
6	AD	197	PRO
9	AG	130	GLY
18	AP	63	GLY
20	AR	86	VAL
27	BD	113	VAL
32	BI	120	ILE
42	BV	17	GLY
6	CD	37	PRO
6	CD	197	PRO
9	CG	130	GLY
18	CP	63	GLY
20	CR	86	VAL
27	DD	113	VAL
32	DI	120	ILE
42	DV	48	GLY
6	AD	189	PRO
21	AS	42	PRO
6	CD	189	PRO
21	CS	42	PRO
42	DV	17	GLY
5	AC	51	GLY
10	AH	74	PRO
31	BH	36	PRO
6	CD	88	VAL
30	DG	42	GLY
31	DH	36	PRO

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	AB	202/220 (92%)	189 (94%)	13 (6%)	22	62
4	CB	202/220 (92%)	189 (94%)	13 (6%)	22	62
5	AC	160/188 (85%)	151 (94%)	9 (6%)	26	68
5	CC	160/188 (85%)	151 (94%)	9 (6%)	26	68
6	AD	180/181 (99%)	171 (95%)	9 (5%)	30	71
6	CD	180/181 (99%)	171 (95%)	9 (5%)	30	71
7	AE	116/123 (94%)	105 (90%)	11 (10%)	11	40
7	CE	116/123 (94%)	105 (90%)	11 (10%)	11	40
8	AF	90/90 (100%)	86 (96%)	4 (4%)	35	74
8	CF	90/90 (100%)	86 (96%)	4 (4%)	35	74
9	AG	126/127 (99%)	125 (99%)	1 (1%)	86	96
9	CG	126/127 (99%)	125 (99%)	1 (1%)	86	96
10	AH	119/119 (100%)	114 (96%)	5 (4%)	36	75
10	CH	119/119 (100%)	114 (96%)	5 (4%)	36	75
11	AI	98/99 (99%)	92 (94%)	6 (6%)	23	64
11	CI	98/99 (99%)	92 (94%)	6 (6%)	23	64
12	AJ	88/92 (96%)	80 (91%)	8 (9%)	12	42
12	CJ	88/92 (96%)	80 (91%)	8 (9%)	12	42
13	AK	90/99 (91%)	86 (96%)	4 (4%)	35	74
13	CK	90/99 (91%)	86 (96%)	4 (4%)	35	74
14	AL	104/110 (94%)	98 (94%)	6 (6%)	25	66
14	CL	104/110 (94%)	98 (94%)	6 (6%)	25	66
15	AM	94/101 (93%)	87 (93%)	7 (7%)	17	56
15	CM	94/101 (93%)	87 (93%)	7 (7%)	17	56
16	AN	49/50 (98%)	47 (96%)	2 (4%)	37	76
16	CN	49/50 (98%)	47 (96%)	2 (4%)	37	76

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
17	AO	79/80 (99%)	74 (94%)	5 (6%)	22	63
17	CO	79/80 (99%)	74 (94%)	5 (6%)	22	63
18	AP	72/74 (97%)	68 (94%)	4 (6%)	26	68
18	CP	72/74 (97%)	68 (94%)	4 (6%)	26	68
19	AQ	94/97 (97%)	91 (97%)	3 (3%)	46	81
19	CQ	94/97 (97%)	91 (97%)	3 (3%)	46	81
20	AR	61/77 (79%)	59 (97%)	2 (3%)	45	81
20	CR	61/77 (79%)	59 (97%)	2 (3%)	45	81
21	AS	69/80 (86%)	59 (86%)	10 (14%)	4	19
21	CS	69/80 (86%)	59 (86%)	10 (14%)	4	19
22	AT	76/82 (93%)	71 (93%)	5 (7%)	21	61
22	CT	76/82 (93%)	71 (93%)	5 (7%)	21	61
23	AU	19/22 (86%)	19 (100%)	0	100	100
23	CU	19/22 (86%)	19 (100%)	0	100	100
24	AX	299/299 (100%)	278 (93%)	21 (7%)	19	58
24	CX	299/299 (100%)	278 (93%)	21 (7%)	19	58
27	BD	213/218 (98%)	196 (92%)	17 (8%)	15	52
27	DD	213/218 (98%)	196 (92%)	17 (8%)	15	52
28	BE	165/166 (99%)	153 (93%)	12 (7%)	17	57
28	DE	165/166 (99%)	153 (93%)	12 (7%)	17	57
29	BF	161/166 (97%)	154 (96%)	7 (4%)	35	75
29	DF	161/166 (97%)	154 (96%)	7 (4%)	35	75
30	BG	155/156 (99%)	142 (92%)	13 (8%)	14	48
30	DG	155/156 (99%)	142 (92%)	13 (8%)	14	48
31	BH	132/148 (89%)	123 (93%)	9 (7%)	20	59
31	DH	132/148 (89%)	123 (93%)	9 (7%)	20	59
32	BI	122/124 (98%)	113 (93%)	9 (7%)	17	56
32	DI	122/124 (98%)	113 (93%)	9 (7%)	17	56
33	BJ	27/135 (20%)	26 (96%)	1 (4%)	41	79
33	DJ	27/135 (20%)	26 (96%)	1 (4%)	41	79
34	BN	116/139 (84%)	106 (91%)	10 (9%)	13	46

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
34	DN	116/139 (84%)	106 (91%)	10 (9%)	13	46
35	BO	100/100 (100%)	95 (95%)	5 (5%)	30	71
35	DO	100/100 (100%)	95 (95%)	5 (5%)	30	71
36	BP	112/116 (97%)	92 (82%)	20 (18%)	2	11
36	DP	112/116 (97%)	92 (82%)	20 (18%)	2	11
37	BQ	106/111 (96%)	95 (90%)	11 (10%)	9	35
37	DQ	106/111 (96%)	95 (90%)	11 (10%)	9	35
38	BR	100/101 (99%)	95 (95%)	5 (5%)	30	71
38	DR	100/101 (99%)	95 (95%)	5 (5%)	30	71
39	BS	77/88 (88%)	70 (91%)	7 (9%)	12	42
39	DS	77/88 (88%)	70 (91%)	7 (9%)	12	42
40	BT	121/128 (94%)	106 (88%)	15 (12%)	6	27
40	DT	121/128 (94%)	106 (88%)	15 (12%)	6	27
41	BU	93/94 (99%)	90 (97%)	3 (3%)	46	81
41	DU	93/94 (99%)	89 (96%)	4 (4%)	35	75
42	BV	82/82 (100%)	73 (89%)	9 (11%)	8	33
42	DV	82/82 (100%)	73 (89%)	9 (11%)	8	33
43	BW	91/92 (99%)	89 (98%)	2 (2%)	60	87
43	DW	91/92 (99%)	89 (98%)	2 (2%)	60	87
44	BX	74/78 (95%)	68 (92%)	6 (8%)	15	51
44	DX	74/78 (95%)	68 (92%)	6 (8%)	15	51
45	BY	84/91 (92%)	79 (94%)	5 (6%)	24	65
45	DY	84/91 (92%)	79 (94%)	5 (6%)	24	65
46	BZ	163/179 (91%)	160 (98%)	3 (2%)	66	89
46	DZ	163/179 (91%)	160 (98%)	3 (2%)	66	89
47	B0	61/67 (91%)	59 (97%)	2 (3%)	45	81
47	D0	61/67 (91%)	59 (97%)	2 (3%)	45	81
48	B1	73/83 (88%)	63 (86%)	10 (14%)	4	21
48	D1	73/83 (88%)	64 (88%)	9 (12%)	6	27
49	B2	67/67 (100%)	64 (96%)	3 (4%)	34	74
49	D2	67/67 (100%)	64 (96%)	3 (4%)	34	74

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
50	B3	51/52 (98%)	47 (92%)	4 (8%)	16	53
50	D3	51/52 (98%)	48 (94%)	3 (6%)	24	65
51	B4	27/84 (32%)	25 (93%)	2 (7%)	17	56
51	D4	27/84 (32%)	25 (93%)	2 (7%)	17	56
52	B5	45/52 (86%)	43 (96%)	2 (4%)	35	74
52	D5	45/52 (86%)	43 (96%)	2 (4%)	35	74
53	B6	43/52 (83%)	40 (93%)	3 (7%)	19	58
53	D6	43/52 (83%)	40 (93%)	3 (7%)	19	58
54	B7	41/42 (98%)	38 (93%)	3 (7%)	17	57
54	D7	41/42 (98%)	38 (93%)	3 (7%)	17	57
55	B8	53/55 (96%)	51 (96%)	2 (4%)	40	78
55	D8	53/55 (96%)	51 (96%)	2 (4%)	40	78
All	All	10080/10952 (92%)	9411 (93%)	669 (7%)	21	61

All (669) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
4	AB	27	LYS
4	AB	28	PHE
4	AB	39	ILE
4	AB	71	VAL
4	AB	75	LYS
4	AB	116	GLU
4	AB	117	GLU
4	AB	153	ARG
4	AB	154	LEU
4	AB	169	LYS
4	AB	178	ARG
4	AB	187	LEU
4	AB	221	LEU
5	AC	3	ASN
5	AC	5	ILE
5	AC	12	LEU
5	AC	27	LYS
5	AC	79	ARG
5	AC	91	LEU
5	AC	95	THR
5	AC	165	THR

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Mol	Chain	Res	Type
5	AC	196	LEU
6	AD	3	ARG
6	AD	11	LEU
6	AD	21	LEU
6	AD	119	GLN
6	AD	122	ARG
6	AD	135	LEU
6	AD	150	GLU
6	AD	166	LYS
6	AD	188	LEU
7	AE	8	GLU
7	AE	12	LEU
7	AE	16	THR
7	AE	20	GLN
7	AE	41	VAL
7	AE	47	LYS
7	AE	64	ARG
7	AE	73	ASN
7	AE	79	GLU
7	AE	137	GLU
7	AE	144	THR
8	AF	48	LEU
8	AF	83	ASP
8	AF	94	GLN
8	AF	100	ASN
9	AG	156	TRP
10	AH	1	MET
10	AH	25	ASP
10	AH	30	ARG
10	AH	102	ARG
10	AH	136	GLU
11	AI	10	ARG
11	AI	19	LEU
11	AI	95	LYS
11	AI	99	LEU
11	AI	104	ARG
11	AI	121	ARG
12	AJ	16	LEU
12	AJ	22	LYS
12	AJ	55	LYS
12	AJ	73	ASP
12	AJ	74	ILE

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Mol	Chain	Res	Type
12	AJ	80	LYS
12	AJ	92	THR
12	AJ	96	ILE
13	AK	26	ASN
13	AK	29	ILE
13	AK	92	GLU
13	AK	123	LYS
14	AL	19	LYS
14	AL	37	THR
14	AL	40	ARG
14	AL	41	THR
14	AL	52	ARG
14	AL	64	GLU
15	AM	58	GLU
15	AM	64	TRP
15	AM	87	TYR
15	AM	93	ARG
15	AM	106	ASN
15	AM	108	ARG
15	AM	115	LYS
16	AN	6	LEU
16	AN	26	ARG
17	AO	5	LYS
17	AO	17	ARG
17	AO	44	LYS
17	AO	82	ILE
17	AO	87	ILE
18	AP	27	LYS
18	AP	32	TYR
18	AP	80	PHE
18	AP	82	GLN
19	AQ	52	LYS
19	AQ	74	LEU
19	AQ	96	GLN
20	AR	42	ARG
20	AR	84	LYS
21	AS	5	LEU
21	AS	6	LYS
21	AS	7	LYS
21	AS	19	VAL
21	AS	27	GLU
21	AS	29	ARG

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Mol	Chain	Res	Type
21	AS	37	ARG
21	AS	44	MET
21	AS	53	ASN
21	AS	70	LYS
22	AT	26	ASN
22	AT	45	GLN
22	AT	62	LEU
22	AT	72	LEU
22	AT	93	GLU
24	AX	7	ARG
24	AX	8	LEU
24	AX	13	ARG
24	AX	38	TYR
24	AX	43	GLU
24	AX	150	THR
24	AX	152	LEU
24	AX	160	PHE
24	AX	163	ARG
24	AX	177	VAL
24	AX	187	GLU
24	AX	202	LEU
24	AX	230	GLN
24	AX	249	MET
24	AX	259	ILE
24	AX	269	LEU
24	AX	293	ILE
24	AX	297	GLU
24	AX	317	ILE
24	AX	332	LEU
24	AX	351	LEU
27	BD	5	LYS
27	BD	10	THR
27	BD	28	GLU
27	BD	33	LEU
27	BD	50	THR
27	BD	78	LYS
27	BD	95	LEU
27	BD	109	ASP
27	BD	111	LEU
27	BD	133	LEU
27	BD	150	LYS
27	BD	166	GLN

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Mol	Chain	Res	Type
27	BD	173	VAL
27	BD	192	THR
27	BD	242	ARG
27	BD	259	THR
27	BD	261	LYS
28	BE	4	ILE
28	BE	9	VAL
28	BE	19	ARG
28	BE	52	LEU
28	BE	57	LYS
28	BE	92	THR
28	BE	118	LYS
28	BE	119	ARG
28	BE	132	HIS
28	BE	137	HIS
28	BE	184	VAL
28	BE	195	LEU
29	BF	8	GLN
29	BF	9	ILE
29	BF	53	THR
29	BF	65	TRP
29	BF	95	ARG
29	BF	117	ARG
29	BF	164	ARG
30	BG	18	GLU
30	BG	33	ARG
30	BG	34	LEU
30	BG	47	LYS
30	BG	74	LYS
30	BG	86	MET
30	BG	90	LEU
30	BG	98	ARG
30	BG	107	LEU
30	BG	115	ARG
30	BG	133	LEU
30	BG	139	LEU
30	BG	155	MET
31	BH	13	LYS
31	BH	23	ARG
31	BH	43	VAL
31	BH	86	GLU
31	BH	101	ARG

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Mol	Chain	Res	Type
31	BH	105	LEU
31	BH	123	PHE
31	BH	158	HIS
31	BH	162	ILE
32	BI	5	LEU
32	BI	6	LEU
32	BI	66	GLU
32	BI	67	ARG
32	BI	73	GLU
32	BI	77	LEU
32	BI	92	VAL
32	BI	107	ILE
32	BI	109	ILE
33	BJ	17	LEU
34	BN	57	LEU
34	BN	64	ASP
34	BN	71	MET
34	BN	94	ILE
34	BN	116	THR
34	BN	120	ARG
34	BN	122	LEU
34	BN	146	TYR
34	BN	150	ASP
34	BN	161	LEU
35	BO	19	ILE
35	BO	25	LEU
35	BO	77	ILE
35	BO	87	ILE
35	BO	104	ARG
36	BP	13	ASN
36	BP	15	ARG
36	BP	32	THR
36	BP	35	HIS
36	BP	49	ARG
36	BP	50	ARG
36	BP	57	THR
36	BP	61	ARG
36	BP	62	LEU
36	BP	67	MET
36	BP	70	GLN
36	BP	83	VAL
36	BP	85	LEU

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Mol	Chain	Res	Type
36	BP	105	LEU
36	BP	106	LEU
36	BP	111	ARG
36	BP	135	LEU
36	BP	147	LEU
36	BP	148	LEU
36	BP	149	GLU
37	BQ	6	ARG
37	BQ	13	GLN
37	BQ	14	ARG
37	BQ	22	LYS
37	BQ	29	PHE
37	BQ	45	GLN
37	BQ	55	VAL
37	BQ	60	ARG
37	BQ	80	GLU
37	BQ	89	ASN
37	BQ	135	ASP
38	BR	9	LYS
38	BR	10	LEU
38	BR	71	GLN
38	BR	79	LEU
38	BR	104	ARG
39	BS	18	ILE
39	BS	26	LEU
39	BS	30	ARG
39	BS	42	ASP
39	BS	44	LYS
39	BS	61	ASN
39	BS	93	LYS
40	BT	22	PHE
40	BT	28	VAL
40	BT	41	ARG
40	BT	58	ASN
40	BT	59	THR
40	BT	68	TYR
40	BT	86	ILE
40	BT	89	VAL
40	BT	95	ARG
40	BT	96	ARG
40	BT	98	LYS
40	BT	99	LEU

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Mol	Chain	Res	Type
40	BT	108	ARG
40	BT	112	ARG
40	BT	113	LYS
41	BU	32	PHE
41	BU	79	PHE
41	BU	92	ARG
42	BV	11	GLN
42	BV	12	TYR
42	BV	13	ARG
42	BV	18	LEU
42	BV	25	LEU
42	BV	37	VAL
42	BV	80	GLN
42	BV	98	GLU
42	BV	99	ILE
43	BW	11	ARG
43	BW	95	ILE
44	BX	28	PHE
44	BX	55	ASN
44	BX	65	ARG
44	BX	68	ARG
44	BX	75	ASP
44	BX	81	VAL
45	BY	4	LYS
45	BY	6	HIS
45	BY	8	LYS
45	BY	31	LEU
45	BY	76	CYS
46	BZ	70	LEU
46	BZ	72	ARG
46	BZ	76	LEU
47	B0	25	ARG
47	B0	84	LEU
48	B1	18	ILE
48	B1	20	ARG
48	B1	40	ARG
48	B1	45	ASN
48	B1	46	LEU
48	B1	73	LEU
48	B1	75	GLU
48	B1	76	ARG
48	B1	82	LEU

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Mol	Chain	Res	Type
48	B1	95	LEU
49	B2	2	LYS
49	B2	37	PHE
49	B2	56	GLN
50	B3	1	MET
50	B3	10	LYS
50	B3	29	ARG
50	B3	46	ASN
51	B4	49	GLU
51	B4	65	CYS
52	B5	3	LYS
52	B5	51	TYR
53	B6	11	LEU
53	B6	30	THR
53	B6	34	LEU
54	B7	4	THR
54	B7	8	ASN
54	B7	24	THR
55	B8	33	ASN
55	B8	48	PHE
4	CB	27	LYS
4	CB	28	PHE
4	CB	39	ILE
4	CB	71	VAL
4	CB	75	LYS
4	CB	116	GLU
4	CB	117	GLU
4	CB	153	ARG
4	CB	154	LEU
4	CB	169	LYS
4	CB	178	ARG
4	CB	187	LEU
4	CB	221	LEU
5	CC	3	ASN
5	CC	5	ILE
5	CC	12	LEU
5	CC	27	LYS
5	CC	79	ARG
5	CC	91	LEU
5	CC	95	THR
5	CC	165	THR
5	CC	196	LEU

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Mol	Chain	Res	Type
6	CD	3	ARG
6	CD	11	LEU
6	CD	21	LEU
6	CD	119	GLN
6	CD	122	ARG
6	CD	135	LEU
6	CD	150	GLU
6	CD	166	LYS
6	CD	188	LEU
7	CE	8	GLU
7	CE	12	LEU
7	CE	16	THR
7	CE	20	GLN
7	CE	41	VAL
7	CE	47	LYS
7	CE	64	ARG
7	CE	73	ASN
7	CE	79	GLU
7	CE	137	GLU
7	CE	144	THR
8	CF	48	LEU
8	CF	83	ASP
8	CF	94	GLN
8	CF	100	ASN
9	CG	156	TRP
10	CH	1	MET
10	CH	25	ASP
10	CH	30	ARG
10	CH	102	ARG
10	CH	136	GLU
11	CI	10	ARG
11	CI	19	LEU
11	CI	95	LYS
11	CI	99	LEU
11	CI	104	ARG
11	CI	121	ARG
12	CJ	16	LEU
12	CJ	22	LYS
12	CJ	55	LYS
12	CJ	73	ASP
12	CJ	74	ILE
12	CJ	80	LYS

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Mol	Chain	Res	Type
12	CJ	92	THR
12	CJ	96	ILE
13	CK	26	ASN
13	CK	29	ILE
13	CK	92	GLU
13	CK	123	LYS
14	CL	19	LYS
14	CL	37	THR
14	CL	40	ARG
14	CL	41	THR
14	CL	52	ARG
14	CL	64	GLU
15	CM	58	GLU
15	CM	64	TRP
15	CM	87	TYR
15	CM	93	ARG
15	CM	106	ASN
15	CM	108	ARG
15	CM	115	LYS
16	CN	6	LEU
16	CN	26	ARG
17	CO	5	LYS
17	CO	17	ARG
17	CO	44	LYS
17	CO	82	ILE
17	CO	87	ILE
18	CP	27	LYS
18	CP	32	TYR
18	CP	80	PHE
18	CP	82	GLN
19	CQ	52	LYS
19	CQ	74	LEU
19	CQ	96	GLN
20	CR	42	ARG
20	CR	84	LYS
21	CS	5	LEU
21	CS	6	LYS
21	CS	7	LYS
21	CS	19	VAL
21	CS	27	GLU
21	CS	29	ARG
21	CS	37	ARG

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Mol	Chain	Res	Type
21	CS	44	MET
21	CS	53	ASN
21	CS	70	LYS
22	CT	26	ASN
22	CT	45	GLN
22	CT	62	LEU
22	CT	72	LEU
22	CT	93	GLU
24	CX	7	ARG
24	CX	8	LEU
24	CX	13	ARG
24	CX	38	TYR
24	CX	43	GLU
24	CX	150	THR
24	CX	152	LEU
24	CX	160	PHE
24	CX	163	ARG
24	CX	177	VAL
24	CX	187	GLU
24	CX	202	LEU
24	CX	230	GLN
24	CX	249	MET
24	CX	259	ILE
24	CX	269	LEU
24	CX	293	ILE
24	CX	297	GLU
24	CX	317	ILE
24	CX	332	LEU
24	CX	351	LEU
27	DD	5	LYS
27	DD	10	THR
27	DD	28	GLU
27	DD	33	LEU
27	DD	50	THR
27	DD	78	LYS
27	DD	95	LEU
27	DD	109	ASP
27	DD	111	LEU
27	DD	133	LEU
27	DD	150	LYS
27	DD	166	GLN
27	DD	173	VAL

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Mol	Chain	Res	Type
27	DD	192	THR
27	DD	242	ARG
27	DD	259	THR
27	DD	261	LYS
28	DE	4	ILE
28	DE	9	VAL
28	DE	19	ARG
28	DE	52	LEU
28	DE	57	LYS
28	DE	92	THR
28	DE	118	LYS
28	DE	119	ARG
28	DE	132	HIS
28	DE	137	HIS
28	DE	184	VAL
28	DE	195	LEU
29	DF	8	GLN
29	DF	9	ILE
29	DF	53	THR
29	DF	65	TRP
29	DF	95	ARG
29	DF	117	ARG
29	DF	164	ARG
30	DG	18	GLU
30	DG	33	ARG
30	DG	34	LEU
30	DG	47	LYS
30	DG	74	LYS
30	DG	86	MET
30	DG	90	LEU
30	DG	98	ARG
30	DG	107	LEU
30	DG	115	ARG
30	DG	133	LEU
30	DG	139	LEU
30	DG	155	MET
31	DH	13	LYS
31	DH	23	ARG
31	DH	43	VAL
31	DH	86	GLU
31	DH	101	ARG
31	DH	105	LEU

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Mol	Chain	Res	Type
31	DH	123	PHE
31	DH	158	HIS
31	DH	162	ILE
32	DI	5	LEU
32	DI	6	LEU
32	DI	66	GLU
32	DI	67	ARG
32	DI	73	GLU
32	DI	77	LEU
32	DI	92	VAL
32	DI	107	ILE
32	DI	109	ILE
33	DJ	17	LEU
34	DN	57	LEU
34	DN	64	ASP
34	DN	71	MET
34	DN	94	ILE
34	DN	116	THR
34	DN	120	ARG
34	DN	122	LEU
34	DN	146	TYR
34	DN	150	ASP
34	DN	161	LEU
35	DO	19	ILE
35	DO	25	LEU
35	DO	77	ILE
35	DO	87	ILE
35	DO	104	ARG
36	DP	13	ASN
36	DP	15	ARG
36	DP	32	THR
36	DP	35	HIS
36	DP	49	ARG
36	DP	50	ARG
36	DP	57	THR
36	DP	61	ARG
36	DP	62	LEU
36	DP	67	MET
36	DP	70	GLN
36	DP	83	VAL
36	DP	85	LEU
36	DP	105	LEU

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Mol	Chain	Res	Type
36	DP	106	LEU
36	DP	111	ARG
36	DP	135	LEU
36	DP	147	LEU
36	DP	148	LEU
36	DP	149	GLU
37	DQ	6	ARG
37	DQ	13	GLN
37	DQ	14	ARG
37	DQ	22	LYS
37	DQ	29	PHE
37	DQ	45	GLN
37	DQ	55	VAL
37	DQ	60	ARG
37	DQ	80	GLU
37	DQ	89	ASN
37	DQ	135	ASP
38	DR	9	LYS
38	DR	10	LEU
38	DR	71	GLN
38	DR	79	LEU
38	DR	104	ARG
39	DS	18	ILE
39	DS	26	LEU
39	DS	30	ARG
39	DS	42	ASP
39	DS	44	LYS
39	DS	61	ASN
39	DS	93	LYS
40	DT	22	PHE
40	DT	28	VAL
40	DT	41	ARG
40	DT	58	ASN
40	DT	59	THR
40	DT	68	TYR
40	DT	86	ILE
40	DT	89	VAL
40	DT	95	ARG
40	DT	96	ARG
40	DT	98	LYS
40	DT	99	LEU
40	DT	108	ARG

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Mol	Chain	Res	Type
40	DT	112	ARG
40	DT	113	LYS
41	DU	31	SER
41	DU	32	PHE
41	DU	79	PHE
41	DU	92	ARG
42	DV	11	GLN
42	DV	12	TYR
42	DV	13	ARG
42	DV	18	LEU
42	DV	25	LEU
42	DV	37	VAL
42	DV	80	GLN
42	DV	98	GLU
42	DV	99	ILE
43	DW	11	ARG
43	DW	95	ILE
44	DX	28	PHE
44	DX	55	ASN
44	DX	65	ARG
44	DX	68	ARG
44	DX	75	ASP
44	DX	81	VAL
45	DY	4	LYS
45	DY	6	HIS
45	DY	8	LYS
45	DY	31	LEU
45	DY	76	CYS
46	DZ	70	LEU
46	DZ	72	ARG
46	DZ	76	LEU
47	D0	25	ARG
47	D0	84	LEU
48	D1	18	ILE
48	D1	20	ARG
48	D1	40	ARG
48	D1	45	ASN
48	D1	46	LEU
48	D1	73	LEU
48	D1	76	ARG
48	D1	82	LEU
48	D1	95	LEU

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Mol	Chain	Res	Type
49	D2	2	LYS
49	D2	37	PHE
49	D2	56	GLN
50	D3	10	LYS
50	D3	29	ARG
50	D3	46	ASN
51	D4	49	GLU
51	D4	65	CYS
52	D5	3	LYS
52	D5	51	TYR
53	D6	11	LEU
53	D6	30	THR
53	D6	34	LEU
54	D7	4	THR
54	D7	8	ASN
54	D7	24	THR
55	D8	33	ASN
55	D8	48	PHE

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (231) such sidechains are listed below:

Mol	Chain	Res	Type
4	AB	19	HIS
4	AB	25	ASN
4	AB	37	ASN
4	AB	40	HIS
4	AB	146	GLN
4	AB	212	GLN
5	AC	28	GLN
5	AC	31	HIS
5	AC	37	GLN
5	AC	170	GLN
6	AD	116	GLN
6	AD	119	GLN
7	AE	20	GLN
7	AE	73	ASN
7	AE	78	HIS
8	AF	27	GLN
8	AF	32	ASN
8	AF	100	ASN
9	AG	84	ASN
9	AG	106	GLN

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Mol	Chain	Res	Type
10	AH	78	GLN
10	AH	82	HIS
11	AI	23	ASN
11	AI	73	GLN
12	AJ	13	HIS
12	AJ	62	HIS
12	AJ	78	ASN
13	AK	38	ASN
13	AK	117	ASN
14	AL	7	ASN
14	AL	48	ASN
14	AL	74	HIS
15	AM	101	GLN
17	AO	37	ASN
17	AO	46	HIS
18	AP	16	HIS
18	AP	82	GLN
22	AT	26	ASN
24	AX	32	GLN
24	AX	181	GLN
24	AX	230	GLN
24	AX	261	ASN
24	AX	315	HIS
27	BD	44	ASN
27	BD	58	HIS
27	BD	87	ASN
27	BD	126	GLN
27	BD	166	GLN
27	BD	186	HIS
28	BE	60	ASN
28	BE	66	HIS
28	BE	169	ASN
28	BE	192	ASN
29	BF	67	GLN
29	BF	75	HIS
29	BF	203	GLN
30	BG	108	ASN
30	BG	121	ASN
30	BG	132	ASN
31	BH	143	GLN
31	BH	147	ASN
31	BH	158	HIS

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Mol	Chain	Res	Type
32	BI	133	HIS
33	BJ	3	ASN
33	BJ	6	ASN
33	BJ	21	GLN
34	BN	79	ASN
34	BN	154	GLN
36	BP	13	ASN
36	BP	38	GLN
36	BP	81	GLN
37	BQ	13	GLN
37	BQ	45	GLN
37	BQ	123	HIS
38	BR	16	HIS
38	BR	53	HIS
38	BR	61	HIS
38	BR	71	GLN
38	BR	91	GLN
39	BS	61	ASN
40	BT	43	GLN
40	BT	58	ASN
40	BT	79	HIS
40	BT	84	GLN
40	BT	90	GLN
41	BU	44	ASN
41	BU	49	HIS
41	BU	75	ASN
42	BV	80	GLN
43	BW	34	ASN
43	BW	57	ASN
43	BW	102	HIS
44	BX	31	HIS
44	BX	41	ASN
44	BX	55	ASN
44	BX	87	GLN
46	BZ	34	ASN
46	BZ	55	HIS
46	BZ	118	GLN
47	B0	35	ASN
47	B0	50	ASN
47	B0	70	GLN
48	B1	19	GLN
48	B1	45	ASN

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Mol	Chain	Res	Type
48	B1	56	GLN
48	B1	66	HIS
49	B2	47	ASN
50	B3	19	GLN
50	B3	46	ASN
51	B4	46	ASN
52	B5	43	HIS
53	B6	29	ASN
53	B6	46	HIS
54	B7	8	ASN
54	B7	36	GLN
55	B8	33	ASN
4	CB	19	HIS
4	CB	25	ASN
4	CB	37	ASN
4	CB	40	HIS
4	CB	146	GLN
4	CB	212	GLN
5	CC	28	GLN
5	CC	31	HIS
5	CC	37	GLN
5	CC	170	GLN
6	CD	116	GLN
6	CD	119	GLN
7	CE	20	GLN
7	CE	73	ASN
7	CE	78	HIS
8	CF	27	GLN
8	CF	32	ASN
8	CF	100	ASN
9	CG	84	ASN
9	CG	106	GLN
10	CH	78	GLN
10	CH	82	HIS
11	CI	23	ASN
11	CI	73	GLN
12	CJ	13	HIS
12	CJ	62	HIS
12	CJ	78	ASN
13	CK	38	ASN
13	CK	117	ASN
14	CL	7	ASN

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Mol	Chain	Res	Type
14	CL	48	ASN
14	CL	74	HIS
15	CM	101	GLN
17	CO	37	ASN
17	CO	46	HIS
18	CP	16	HIS
18	CP	82	GLN
22	CT	26	ASN
24	CX	32	GLN
24	CX	181	GLN
24	CX	230	GLN
24	CX	261	ASN
24	CX	315	HIS
27	DD	44	ASN
27	DD	58	HIS
27	DD	87	ASN
27	DD	116	GLN
27	DD	126	GLN
27	DD	166	GLN
27	DD	186	HIS
28	DE	60	ASN
28	DE	66	HIS
28	DE	169	ASN
28	DE	192	ASN
29	DF	67	GLN
29	DF	75	HIS
29	DF	203	GLN
30	DG	108	ASN
30	DG	121	ASN
30	DG	132	ASN
31	DH	143	GLN
31	DH	147	ASN
31	DH	158	HIS
32	DI	133	HIS
33	DJ	3	ASN
33	DJ	6	ASN
33	DJ	21	GLN
34	DN	79	ASN
34	DN	154	GLN
36	DP	13	ASN
36	DP	38	GLN
36	DP	81	GLN

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Mol	Chain	Res	Type
37	DQ	13	GLN
37	DQ	45	GLN
37	DQ	123	HIS
37	DQ	141	GLN
38	DR	16	HIS
38	DR	53	HIS
38	DR	61	HIS
38	DR	71	GLN
38	DR	91	GLN
39	DS	61	ASN
40	DT	43	GLN
40	DT	79	HIS
40	DT	84	GLN
40	DT	90	GLN
41	DU	44	ASN
41	DU	49	HIS
41	DU	75	ASN
43	DW	34	ASN
43	DW	57	ASN
43	DW	102	HIS
44	DX	31	HIS
44	DX	41	ASN
44	DX	55	ASN
44	DX	87	GLN
46	DZ	34	ASN
46	DZ	55	HIS
46	DZ	118	GLN
47	D0	35	ASN
47	D0	50	ASN
47	D0	70	GLN
48	D1	19	GLN
48	D1	45	ASN
48	D1	56	GLN
48	D1	66	HIS
49	D2	47	ASN
50	D3	19	GLN
50	D3	46	ASN
52	D5	43	HIS
53	D6	29	ASN
53	D6	46	HIS
54	D7	8	ASN
54	D7	36	GLN

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Mol	Chain	Res	Type
55	D8	33	ASN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1503/1525 (98%)	211 (14%)	56 (3%)
1	CA	1503/1525 (98%)	211 (14%)	56 (3%)
2	AY	76/77 (98%)	11 (14%)	2 (2%)
2	AZ	76/77 (98%)	8 (10%)	1 (1%)
2	CY	76/77 (98%)	11 (14%)	2 (2%)
2	CZ	76/77 (98%)	8 (10%)	1 (1%)
25	BA	2878/2894 (99%)	448 (15%)	101 (3%)
25	DA	2878/2894 (99%)	445 (15%)	102 (3%)
26	BB	118/124 (95%)	12 (10%)	1 (0%)
26	DB	118/124 (95%)	12 (10%)	1 (0%)
3	AV	11/27 (40%)	2 (18%)	1 (9%)
3	CV	11/27 (40%)	2 (18%)	1 (9%)
All	All	9324/9448 (98%)	1381 (14%)	325 (3%)

All (1381) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	6	G
1	AA	9	G
1	AA	31	G
1	AA	39	G
1	AA	47	C
1	AA	48	C
1	AA	50	A
1	AA	51	A
1	AA	61	G
1	AA	115	G
1	AA	116	A
1	AA	120	A
1	AA	121	C
1	AA	131	C
1	AA	150	C
1	AA	163	C
1	AA	169	C
1	AA	182	U
1	AA	190	G

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Mol	Chain	Res	Type
1	AA	191(A)	G
1	AA	195	A
1	AA	210	U
1	AA	244	U
1	AA	245	C
1	AA	247	G
1	AA	251	G
1	AA	266	G
1	AA	267	C
1	AA	280	C
1	AA	281	G
1	AA	289	G
1	AA	328	C
1	AA	329	A
1	AA	332	G
1	AA	345	C
1	AA	346	G
1	AA	352	C
1	AA	353	A
1	AA	354	G
1	AA	358	U
1	AA	359	U
1	AA	367	U
1	AA	372	C
1	AA	373	A
1	AA	384	G
1	AA	389	A
1	AA	397	A
1	AA	398	C
1	AA	406	G
1	AA	412	A
1	AA	413	G
1	AA	414	A
1	AA	422	C
1	AA	423	G
1	AA	429	U
1	AA	430	A
1	AA	439	A
1	AA	452	A
1	AA	484	G
1	AA	485	G
1	AA	496	A

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Mol	Chain	Res	Type
1	AA	497	U
1	AA	509	A
1	AA	510	A
1	AA	511	C
1	AA	512	U
1	AA	518	C
1	AA	524	G
1	AA	527	G
1	AA	531	U
1	AA	532	A
1	AA	533	A
1	AA	534	U
1	AA	535	A
1	AA	547	A
1	AA	559	A
1	AA	561	U
1	AA	562	C
1	AA	572	A
1	AA	573	A
1	AA	575	G
1	AA	576	G
1	AA	577	G
1	AA	596	C
1	AA	607	A
1	AA	653	A
1	AA	661	G
1	AA	665	A
1	AA	687	A
1	AA	688	G
1	AA	703	G
1	AA	731	G
1	AA	749	C
1	AA	755	G
1	AA	793	U
1	AA	815	A
1	AA	816	A
1	AA	817	C
1	AA	819	A
1	AA	828	A
1	AA	833	U
1	AA	841	U
1	AA	842	C

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Mol	Chain	Res	Type
1	AA	843	U
1	AA	848	C
1	AA	855	G
1	AA	859	A
1	AA	873	A
1	AA	902	G
1	AA	914	A
1	AA	926	G
1	AA	927	G
1	AA	934	C
1	AA	935	A
1	AA	960	U
1	AA	961	U
1	AA	968	A
1	AA	969	A
1	AA	971	G
1	AA	974	A
1	AA	976	G
1	AA	977	A
1	AA	978	A
1	AA	980	C
1	AA	984	C
1	AA	992	U
1	AA	993	G
1	AA	1004	A
1	AA	1050	G
1	AA	1054	C
1	AA	1064	G
1	AA	1065	U
1	AA	1066	C
1	AA	1068	G
1	AA	1094	G
1	AA	1095	U
1	AA	1101	A
1	AA	1117	G
1	AA	1118	C
1	AA	1124	G
1	AA	1125	U
1	AA	1126	U
1	AA	1129	C
1	AA	1130	A
1	AA	1131	G

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Mol	Chain	Res	Type
1	AA	1136	U
1	AA	1137	C
1	AA	1138	G
1	AA	1139	G
1	AA	1140	C
1	AA	1146	A
1	AA	1159	U
1	AA	1171	G
1	AA	1196	U
1	AA	1197	G
1	AA	1202	G
1	AA	1212	U
1	AA	1213	A
1	AA	1225	A
1	AA	1238	A
1	AA	1239	A
1	AA	1256	A
1	AA	1257	U
1	AA	1258	G
1	AA	1280	A
1	AA	1281	U
1	AA	1282	C
1	AA	1285	A
1	AA	1286	A
1	AA	1287	A
1	AA	1294	G
1	AA	1297	C
1	AA	1300	G
1	AA	1301	U
1	AA	1302	U
1	AA	1303	C
1	AA	1305	G
1	AA	1317	C
1	AA	1320	C
1	AA	1322	C
1	AA	1323	G
1	AA	1331	G
1	AA	1338	G
1	AA	1347	G
1	AA	136(B)	C
1	AA	1363	A
1	AA	1364	U

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Mol	Chain	Res	Type
1	AA	1365	G
1	AA	1378	C
1	AA	1401	G
1	AA	1419	G
1	AA	1443	G
1	AA	1446	A
1	AA	1451	A
1	AA	1452	C
1	AA	1453	G
1	AA	1492	A
1	AA	1497	G
1	AA	1499	A
1	AA	1502	A
1	AA	1503	A
1	AA	1504	G
1	AA	1505	G
1	AA	1506	U
1	AA	1507	A
1	AA	1508	G
1	AA	1517	G
1	AA	1520	G
1	AA	1528	U
1	AA	1529	G
1	AA	1530	G
2	AZ	5	G
2	AZ	17(A)	U
2	AZ	18	G
2	AZ	19	G
2	AZ	20	U
2	AZ	47	U
2	AZ	48	C
2	AZ	61	C
3	AV	22	A
3	AV	23	A
2	AY	8	U
2	AY	17(A)	U
2	AY	18	G
2	AY	19	G
2	AY	20	U
2	AY	21	A
2	AY	22	G
2	AY	47	U

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Mol	Chain	Res	Type
2	AY	48	C
2	AY	49	G
2	AY	76	A
25	BA	10	G
25	BA	34	C
25	BA	35	G
25	BA	46	C
25	BA	63	U
25	BA	64	A
25	BA	72	U
25	BA	73	A
25	BA	74	A
25	BA	75	G
25	BA	84	A
25	BA	85	G
25	BA	88	G
25	BA	98	G
25	BA	99	U
25	BA	101	G
25	BA	102	G
25	BA	118	A
25	BA	120	U
25	BA	138	G
25	BA	140	A
25	BA	162	U
25	BA	181	A
25	BA	196	A
25	BA	197	A
25	BA	199	A
25	BA	200	U
25	BA	204	A
25	BA	205	G
25	BA	216	A
25	BA	221	A
25	BA	222	A
25	BA	227	A
25	BA	228	A
25	BA	229	A
25	BA	230	U
25	BA	248	G
25	BA	252	G
25	BA	269	U

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Mol	Chain	Res	Type
25	BA	270(K)	G
25	BA	270(M)	U
25	BA	270(N)	U
25	BA	270(O)	G
25	BA	270(P)	U
25	BA	270(Q)	C
25	BA	270(R)	C
25	BA	270(T)	G
25	BA	271(D)	U
25	BA	271	G
25	BA	274	G
25	BA	275	G
25	BA	276	A
25	BA	277	C
25	BA	278	A
25	BA	279	C
25	BA	283	A
25	BA	284	U
25	BA	302	C
25	BA	323	G
25	BA	324	A
25	BA	329	G
25	BA	330	A
25	BA	331	A
25	BA	332	A
25	BA	333	G
25	BA	352	G
25	BA	353	G
25	BA	364	C
25	BA	386	G
25	BA	388	G
25	BA	396	G
25	BA	405	U
25	BA	411	G
25	BA	444	C
25	BA	455	C
25	BA	457	A
25	BA	458	G
25	BA	470	A
25	BA	473	G
25	BA	480	A
25	BA	481	G

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Mol	Chain	Res	Type
25	BA	505	A
25	BA	508	G
25	BA	509	C
25	BA	512	G
25	BA	530	G
25	BA	531	C
25	BA	532	A
25	BA	533	G
25	BA	556	G
25	BA	562	U
25	BA	563	G
25	BA	572	A
25	BA	573	G
25	BA	575	A
25	BA	603	A
25	BA	616	A
25	BA	617	G
25	BA	620	G
25	BA	621	A
25	BA	627	A
25	BA	637	A
25	BA	645	C
25	BA	646	A
25	BA	652	U
25	BA	653	C
25	BA	656	G
25	BA	657	U
25	BA	668	G
25	BA	671	C
25	BA	676	A
25	BA	686	G
25	BA	695	G
25	BA	717	G
25	BA	730	C
25	BA	746	A
25	BA	747	U
25	BA	765	G
25	BA	776	G
25	BA	782	A
25	BA	784	A
25	BA	785	G
25	BA	789	A

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Mol	Chain	Res	Type
25	BA	792	G
25	BA	800	A
25	BA	805	G
25	BA	812	C
25	BA	819	A
25	BA	827	U
25	BA	828	U
25	BA	830	G
25	BA	845	G
25	BA	846	C
25	BA	859	G
25	BA	866	A
25	BA	886	C
25	BA	890	A
25	BA	896	A
25	BA	897	C
25	BA	907	U
25	BA	910	A
25	BA	917	A
25	BA	932	G
25	BA	933	A
25	BA	941	A
25	BA	945	A
25	BA	946	G
25	BA	959	A
25	BA	961	C
25	BA	973	A
25	BA	974(A)	G
25	BA	974(B)	C
25	BA	983	A
25	BA	990	A
25	BA	996	A
25	BA	999	U
25	BA	1008	C
25	BA	1009	A
25	BA	1011	G
25	BA	1012	U
25	BA	1013	C
25	BA	1022	G
25	BA	1023	U
25	BA	1025	G
25	BA	1026	U

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Mol	Chain	Res	Type
25	BA	1033	U
25	BA	1047	G
25	BA	1057	A
25	BA	1060	U
25	BA	1061	U
25	BA	1062	G
25	BA	1069	A
25	BA	1070	A
25	BA	1071	G
25	BA	1072	C
25	BA	1078	U
25	BA	1079	C
25	BA	1088	A
25	BA	1090	U
25	BA	1112	G
25	BA	1129	A
25	BA	1130	U
25	BA	1131	G
25	BA	1132	A
25	BA	1135	C
25	BA	1136	G
25	BA	1139	G
25	BA	1142	U
25	BA	114(B)	A
25	BA	1143	A
25	BA	1155	A
25	BA	1174	A
25	BA	1175	U
25	BA	1177	A
25	BA	1190	G
25	BA	1204	A
25	BA	1205	U
25	BA	1210	A
25	BA	1211	U
25	BA	1212	G
25	BA	1221	C
25	BA	1247	A
25	BA	1248	G
25	BA	1253	A
25	BA	1254	A
25	BA	1256	G
25	BA	1265	A

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Mol	Chain	Res	Type
25	BA	1271	G
25	BA	1272	A
25	BA	1274	A
25	BA	1286	A
25	BA	1300	U
25	BA	1301	A
25	BA	1302	A
25	BA	1311	G
25	BA	1312	U
25	BA	1314	C
25	BA	1325	G
25	BA	1329	U
25	BA	1332	G
25	BA	1349	A
25	BA	1359	A
25	BA	1360	A
25	BA	1368	G
25	BA	1379	A
25	BA	1380	G
25	BA	1384	A
25	BA	1385	G
25	BA	1386	C
25	BA	1395	A
25	BA	1396	U
25	BA	1398	C
25	BA	1416	G
25	BA	1417	C
25	BA	1420	U
25	BA	1421	G
25	BA	1428	C
25	BA	144(B)	A
25	BA	1449	G
25	BA	1451	C
25	BA	1453	A
25	BA	1454	U
25	BA	1455	G
25	BA	1458	C
25	BA	1459	G
25	BA	1460	A
25	BA	1467	C
25	BA	1483	G
25	BA	1490	A

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Mol	Chain	Res	Type
25	BA	1493	C
25	BA	1494	A
25	BA	1495	A
25	BA	1497	U
25	BA	1498	C
25	BA	1505	C
25	BA	1510	A
25	BA	1538	G
25	BA	1540	G
25	BA	1542	G
25	BA	1543	A
25	BA	1545	A
25	BA	1554	A
25	BA	1558	A
25	BA	1559	G
25	BA	1569	A
25	BA	1579	A
25	BA	1585	C
25	BA	1599	C
25	BA	1603	A
25	BA	1608	A
25	BA	1609	A
25	BA	1610	A
25	BA	1613	G
25	BA	1617	C
25	BA	1618	A
25	BA	1640	C
25	BA	1648	C
25	BA	1664	A
25	BA	1674	G
25	BA	1694	C
25	BA	1695	G
25	BA	1696	G
25	BA	1729	A
25	BA	1732	A
25	BA	1763	G
25	BA	1764	G
25	BA	1773	A
25	BA	1784	A
25	BA	1786	A
25	BA	1800	C
25	BA	1801	G

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Mol	Chain	Res	Type
25	BA	1816	G
25	BA	1830	C
25	BA	1838	C
25	BA	1839	G
25	BA	1847	A
25	BA	1878	G
25	BA	1888	G
25	BA	1903	G
25	BA	1906	G
25	BA	1913	A
25	BA	1929	G
25	BA	1931	U
25	BA	1936	A
25	BA	1938	A
25	BA	1939	U
25	BA	1955	U
25	BA	1963	U
25	BA	1964	G
25	BA	1966	A
25	BA	1967	C
25	BA	1971	A
25	BA	1972	A
25	BA	1980	G
25	BA	1981	A
25	BA	1982	C
25	BA	1992	G
25	BA	1993	U
25	BA	1997	G
25	BA	2020	A
25	BA	2023	G
25	BA	2031	A
25	BA	2033	A
25	BA	2034	U
25	BA	2036	C
25	BA	2043	C
25	BA	2046	G
25	BA	2055	C
25	BA	2056	G
25	BA	2060	A
25	BA	2061	G
25	BA	2068	U
25	BA	2069	G

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Mol	Chain	Res	Type
25	BA	2092	U
25	BA	2115	G
25	BA	2119	A
25	BA	2120	G
25	BA	2126	A
25	BA	2132	U
25	BA	2133	G
25	BA	2147	G
25	BA	2159	G
25	BA	2173	A
25	BA	2198	A
25	BA	2199	A
25	BA	2211	G
25	BA	2212	A
25	BA	2213	U
25	BA	2215	G
25	BA	2225	A
25	BA	2226	C
25	BA	2238	G
25	BA	2239	G
25	BA	2251	G
25	BA	2273	A
25	BA	2275	C
25	BA	2283	C
25	BA	2287	A
25	BA	2305	A
25	BA	2306	C
25	BA	2307	G
25	BA	2319	G
25	BA	2320	A
25	BA	2322	A
25	BA	2325	G
25	BA	2334	G
25	BA	2336	A
25	BA	2345	G
25	BA	2347	C
25	BA	2350	C
25	BA	2379	G
25	BA	2383	G
25	BA	2385	C
25	BA	2402	C
25	BA	2408	U

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Mol	Chain	Res	Type
25	BA	2423	U
25	BA	2424	C
25	BA	2425	A
25	BA	2427	C
25	BA	2428	G
25	BA	2429	G
25	BA	2430	A
25	BA	2431	U
25	BA	2439	A
25	BA	2441	C
25	BA	2445	G
25	BA	2447	G
25	BA	2448	A
25	BA	2449	U
25	BA	2469	A
25	BA	2476	A
25	BA	2478	A
25	BA	2487	G
25	BA	2491	U
25	BA	2498	C
25	BA	2502	G
25	BA	2503	A
25	BA	2504	U
25	BA	2505	G
25	BA	2506	U
25	BA	2518	A
25	BA	2520	C
25	BA	2529	G
25	BA	2542	A
25	BA	2543	G
25	BA	2554	U
25	BA	2562	U
25	BA	2566	A
25	BA	2567	G
25	BA	2572	A
25	BA	2573	C
25	BA	2574	G
25	BA	2578	G
25	BA	2585	U
25	BA	2602	A
25	BA	2603	G
25	BA	2609	U

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Mol	Chain	Res	Type
25	BA	2610	C
25	BA	2611	U
25	BA	2612	C
25	BA	2630	G
25	BA	2665	A
25	BA	2690	C
25	BA	2712	U
25	BA	712(B)	A
25	BA	2713	A
25	BA	2714	G
25	BA	2733	A
25	BA	2748	A
25	BA	2757	A
25	BA	2765	A
25	BA	2766	G
25	BA	2778	A
25	BA	2779	U
25	BA	2781	A
25	BA	2790	A
25	BA	2791	C
25	BA	2792	G
25	BA	2797	U
25	BA	2808	U
25	BA	2820	A
25	BA	2821	A
25	BA	2849	U
25	BA	2872	G
25	BA	2873	A
25	BA	2874	C
25	BA	2892	A
25	BA	2894	G
26	BB	15	A
26	BB	16	G
26	BB	25	A
26	BB	35	U
26	BB	42	C
26	BB	45	A
26	BB	52	A
26	BB	67	G
26	BB	73	A
26	BB	88	C
26	BB	90	C

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Mol	Chain	Res	Type
26	BB	109	G
1	CA	6	G
1	CA	9	G
1	CA	31	G
1	CA	39	G
1	CA	47	C
1	CA	48	C
1	CA	50	A
1	CA	51	A
1	CA	61	G
1	CA	115	G
1	CA	116	A
1	CA	120	A
1	CA	121	C
1	CA	131	C
1	CA	150	C
1	CA	163	C
1	CA	169	C
1	CA	182	U
1	CA	190	G
1	CA	191(A)	G
1	CA	195	A
1	CA	210	U
1	CA	244	U
1	CA	245	C
1	CA	247	G
1	CA	251	G
1	CA	266	G
1	CA	267	C
1	CA	280	C
1	CA	281	G
1	CA	289	G
1	CA	328	C
1	CA	329	A
1	CA	332	G
1	CA	345	C
1	CA	346	G
1	CA	352	C
1	CA	353	A
1	CA	354	G
1	CA	358	U
1	CA	359	U

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Mol	Chain	Res	Type
1	CA	367	U
1	CA	372	C
1	CA	373	A
1	CA	384	G
1	CA	389	A
1	CA	397	A
1	CA	398	C
1	CA	406	G
1	CA	412	A
1	CA	413	G
1	CA	414	A
1	CA	422	C
1	CA	423	G
1	CA	429	U
1	CA	430	A
1	CA	439	A
1	CA	452	A
1	CA	484	G
1	CA	485	G
1	CA	496	A
1	CA	497	U
1	CA	509	A
1	CA	510	A
1	CA	511	C
1	CA	512	U
1	CA	518	C
1	CA	524	G
1	CA	527	G
1	CA	531	U
1	CA	532	A
1	CA	533	A
1	CA	534	U
1	CA	535	A
1	CA	547	A
1	CA	559	A
1	CA	561	U
1	CA	562	C
1	CA	572	A
1	CA	573	A
1	CA	575	G
1	CA	576	G
1	CA	577	G

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Mol	Chain	Res	Type
1	CA	596	C
1	CA	607	A
1	CA	653	A
1	CA	661	G
1	CA	665	A
1	CA	687	A
1	CA	688	G
1	CA	703	G
1	CA	731	G
1	CA	749	C
1	CA	755	G
1	CA	793	U
1	CA	815	A
1	CA	816	A
1	CA	817	C
1	CA	819	A
1	CA	828	A
1	CA	833	U
1	CA	841	U
1	CA	842	C
1	CA	843	U
1	CA	848	C
1	CA	855	G
1	CA	859	A
1	CA	873	A
1	CA	902	G
1	CA	914	A
1	CA	926	G
1	CA	927	G
1	CA	934	C
1	CA	935	A
1	CA	960	U
1	CA	961	U
1	CA	968	A
1	CA	969	A
1	CA	971	G
1	CA	974	A
1	CA	976	G
1	CA	977	A
1	CA	978	A
1	CA	980	C
1	CA	984	C

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Mol	Chain	Res	Type
1	CA	992	U
1	CA	993	G
1	CA	1004	A
1	CA	1050	G
1	CA	1054	C
1	CA	1064	G
1	CA	1065	U
1	CA	1066	C
1	CA	1068	G
1	CA	1094	G
1	CA	1095	U
1	CA	1101	A
1	CA	1117	G
1	CA	1118	C
1	CA	1124	G
1	CA	1125	U
1	CA	1126	U
1	CA	1129	C
1	CA	1130	A
1	CA	1131	G
1	CA	1136	U
1	CA	1137	C
1	CA	1138	G
1	CA	1139	G
1	CA	1140	C
1	CA	1146	A
1	CA	1159	U
1	CA	1171	G
1	CA	1196	U
1	CA	1197	G
1	CA	1202	G
1	CA	1212	U
1	CA	1213	A
1	CA	1225	A
1	CA	1238	A
1	CA	1239	A
1	CA	1256	A
1	CA	1257	U
1	CA	1258	G
1	CA	1280	A
1	CA	1281	U
1	CA	1282	C

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Mol	Chain	Res	Type
1	CA	1285	A
1	CA	1286	A
1	CA	1287	A
1	CA	1294	G
1	CA	1297	C
1	CA	1300	G
1	CA	1301	U
1	CA	1302	U
1	CA	1303	C
1	CA	1305	G
1	CA	1317	C
1	CA	1320	C
1	CA	1322	C
1	CA	1323	G
1	CA	1331	G
1	CA	1338	G
1	CA	1347	G
1	CA	136(B)	C
1	CA	1363	A
1	CA	1364	U
1	CA	1365	G
1	CA	1378	C
1	CA	1401	G
1	CA	1419	G
1	CA	1443	G
1	CA	1446	A
1	CA	1451	A
1	CA	1452	C
1	CA	1453	G
1	CA	1492	A
1	CA	1497	G
1	CA	1499	A
1	CA	1502	A
1	CA	1503	A
1	CA	1504	G
1	CA	1505	G
1	CA	1506	U
1	CA	1507	A
1	CA	1508	G
1	CA	1517	G
1	CA	1520	G
1	CA	1528	U

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Mol	Chain	Res	Type
1	CA	1529	G
1	CA	1530	G
2	CZ	5	G
2	CZ	17(A)	U
2	CZ	18	G
2	CZ	19	G
2	CZ	20	U
2	CZ	47	U
2	CZ	48	C
2	CZ	61	C
3	CV	22	A
3	CV	23	A
2	CY	8	U
2	CY	17(A)	U
2	CY	18	G
2	CY	19	G
2	CY	20	U
2	CY	21	A
2	CY	22	G
2	CY	47	U
2	CY	48	C
2	CY	49	G
2	CY	76	A
25	DA	10	G
25	DA	34	C
25	DA	35	G
25	DA	46	C
25	DA	63	U
25	DA	64	A
25	DA	72	U
25	DA	73	A
25	DA	74	A
25	DA	75	G
25	DA	84	A
25	DA	85	G
25	DA	88	G
25	DA	98	G
25	DA	99	U
25	DA	101	G
25	DA	102	G
25	DA	118	A
25	DA	120	U

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Mol	Chain	Res	Type
25	DA	138	G
25	DA	140	A
25	DA	162	U
25	DA	181	A
25	DA	196	A
25	DA	197	A
25	DA	199	A
25	DA	200	U
25	DA	204	A
25	DA	205	G
25	DA	216	A
25	DA	221	A
25	DA	222	A
25	DA	227	A
25	DA	228	A
25	DA	229	A
25	DA	230	U
25	DA	248	G
25	DA	252	G
25	DA	269	U
25	DA	270(K)	G
25	DA	270(M)	U
25	DA	270(N)	U
25	DA	270(O)	G
25	DA	270(P)	U
25	DA	270(Q)	C
25	DA	270(R)	C
25	DA	270(T)	G
25	DA	271(D)	U
25	DA	271	G
25	DA	274	G
25	DA	275	G
25	DA	276	A
25	DA	277	C
25	DA	278	A
25	DA	279	C
25	DA	283	A
25	DA	284	U
25	DA	302	C
25	DA	323	G
25	DA	324	A
25	DA	329	G

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Mol	Chain	Res	Type
25	DA	330	A
25	DA	331	A
25	DA	332	A
25	DA	333	G
25	DA	352	G
25	DA	353	G
25	DA	364	C
25	DA	386	G
25	DA	388	G
25	DA	396	G
25	DA	405	U
25	DA	411	G
25	DA	444	C
25	DA	457	A
25	DA	458	G
25	DA	470	A
25	DA	480	A
25	DA	481	G
25	DA	505	A
25	DA	508	G
25	DA	509	C
25	DA	512	G
25	DA	530	G
25	DA	531	C
25	DA	532	A
25	DA	533	G
25	DA	556	G
25	DA	562	U
25	DA	563	G
25	DA	572	A
25	DA	573	G
25	DA	575	A
25	DA	603	A
25	DA	616	A
25	DA	617	G
25	DA	620	G
25	DA	621	A
25	DA	627	A
25	DA	637	A
25	DA	645	C
25	DA	646	A
25	DA	652	U

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Mol	Chain	Res	Type
25	DA	653	C
25	DA	656	G
25	DA	657	U
25	DA	668	G
25	DA	671	C
25	DA	676	A
25	DA	686	G
25	DA	695	G
25	DA	717	G
25	DA	730	C
25	DA	746	A
25	DA	747	U
25	DA	765	G
25	DA	776	G
25	DA	782	A
25	DA	784	A
25	DA	785	G
25	DA	789	A
25	DA	792	G
25	DA	800	A
25	DA	805	G
25	DA	812	C
25	DA	819	A
25	DA	827	U
25	DA	828	U
25	DA	830	G
25	DA	845	G
25	DA	846	C
25	DA	859	G
25	DA	866	A
25	DA	886	C
25	DA	890	A
25	DA	896	A
25	DA	897	C
25	DA	907	U
25	DA	910	A
25	DA	917	A
25	DA	932	G
25	DA	933	A
25	DA	941	A
25	DA	945	A
25	DA	946	G

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Mol	Chain	Res	Type
25	DA	959	A
25	DA	961	C
25	DA	973	A
25	DA	974(A)	G
25	DA	974(B)	C
25	DA	983	A
25	DA	990	A
25	DA	996	A
25	DA	999	U
25	DA	1008	C
25	DA	1009	A
25	DA	1011	G
25	DA	1012	U
25	DA	1013	C
25	DA	1022	G
25	DA	1023	U
25	DA	1025	G
25	DA	1026	U
25	DA	1033	U
25	DA	1047	G
25	DA	1057	A
25	DA	1060	U
25	DA	1061	U
25	DA	1062	G
25	DA	1069	A
25	DA	1070	A
25	DA	1071	G
25	DA	1072	C
25	DA	1078	U
25	DA	1079	C
25	DA	1088	A
25	DA	1090	U
25	DA	1112	G
25	DA	1129	A
25	DA	1130	U
25	DA	1131	G
25	DA	1132	A
25	DA	1135	C
25	DA	1136	G
25	DA	1139	G
25	DA	1142	U
25	DA	114(B)	A

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Mol	Chain	Res	Type
25	DA	1143	A
25	DA	1155	A
25	DA	1174	A
25	DA	1175	U
25	DA	1177	A
25	DA	1190	G
25	DA	1204	A
25	DA	1205	U
25	DA	1210	A
25	DA	1211	U
25	DA	1212	G
25	DA	1221	C
25	DA	1247	A
25	DA	1248	G
25	DA	1253	A
25	DA	1254	A
25	DA	1256	G
25	DA	1265	A
25	DA	1271	G
25	DA	1272	A
25	DA	1274	A
25	DA	1286	A
25	DA	1300	U
25	DA	1301	A
25	DA	1302	A
25	DA	1311	G
25	DA	1312	U
25	DA	1314	C
25	DA	1325	G
25	DA	1329	U
25	DA	1332	G
25	DA	1349	A
25	DA	1359	A
25	DA	1360	A
25	DA	1368	G
25	DA	1379	A
25	DA	1380	G
25	DA	1384	A
25	DA	1385	G
25	DA	1386	C
25	DA	1395	A
25	DA	1396	U

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Mol	Chain	Res	Type
25	DA	1398	C
25	DA	1416	G
25	DA	1417	C
25	DA	1420	U
25	DA	1421	G
25	DA	1428	C
25	DA	144(B)	A
25	DA	1449	G
25	DA	1451	C
25	DA	1453	A
25	DA	1454	U
25	DA	1455	G
25	DA	1458	C
25	DA	1459	G
25	DA	1460	A
25	DA	1467	C
25	DA	1483	G
25	DA	1490	A
25	DA	1493	C
25	DA	1494	A
25	DA	1495	A
25	DA	1497	U
25	DA	1498	C
25	DA	1505	C
25	DA	1510	A
25	DA	1538	G
25	DA	1540	G
25	DA	1542	G
25	DA	1543	A
25	DA	1545	A
25	DA	1554	A
25	DA	1558	A
25	DA	1559	G
25	DA	1569	A
25	DA	1579	A
25	DA	1585	C
25	DA	1599	C
25	DA	1603	A
25	DA	1608	A
25	DA	1609	A
25	DA	1610	A
25	DA	1613	G

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Mol	Chain	Res	Type
25	DA	1617	C
25	DA	1618	A
25	DA	1640	C
25	DA	1648	C
25	DA	1664	A
25	DA	1674	G
25	DA	1694	C
25	DA	1695	G
25	DA	1696	G
25	DA	1729	A
25	DA	1732	A
25	DA	1763	G
25	DA	1764	G
25	DA	1773	A
25	DA	1786	A
25	DA	1800	C
25	DA	1801	G
25	DA	1816	G
25	DA	1830	C
25	DA	1838	C
25	DA	1839	G
25	DA	1847	A
25	DA	1878	G
25	DA	1888	G
25	DA	1903	G
25	DA	1906	G
25	DA	1913	A
25	DA	1929	G
25	DA	1931	U
25	DA	1936	A
25	DA	1938	A
25	DA	1939	U
25	DA	1955	U
25	DA	1963	U
25	DA	1964	G
25	DA	1966	A
25	DA	1967	C
25	DA	1971	A
25	DA	1972	A
25	DA	1980	G
25	DA	1981	A
25	DA	1982	C

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Mol	Chain	Res	Type
25	DA	1992	G
25	DA	1993	U
25	DA	1997	G
25	DA	2020	A
25	DA	2023	G
25	DA	2031	A
25	DA	2033	A
25	DA	2034	U
25	DA	2036	C
25	DA	2043	C
25	DA	2046	G
25	DA	2055	C
25	DA	2056	G
25	DA	2060	A
25	DA	2061	G
25	DA	2068	U
25	DA	2069	G
25	DA	2092	U
25	DA	2115	G
25	DA	2119	A
25	DA	2120	G
25	DA	2126	A
25	DA	2132	U
25	DA	2133	G
25	DA	2147	G
25	DA	2159	G
25	DA	2173	A
25	DA	2198	A
25	DA	2199	A
25	DA	2211	G
25	DA	2212	A
25	DA	2213	U
25	DA	2215	G
25	DA	2225	A
25	DA	2226	C
25	DA	2238	G
25	DA	2239	G
25	DA	2251	G
25	DA	2273	A
25	DA	2275	C
25	DA	2283	C
25	DA	2287	A

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Mol	Chain	Res	Type
25	DA	2305	A
25	DA	2306	C
25	DA	2307	G
25	DA	2319	G
25	DA	2320	A
25	DA	2322	A
25	DA	2325	G
25	DA	2334	G
25	DA	2336	A
25	DA	2345	G
25	DA	2347	C
25	DA	2350	C
25	DA	2379	G
25	DA	2383	G
25	DA	2385	C
25	DA	2402	C
25	DA	2408	U
25	DA	2423	U
25	DA	2424	C
25	DA	2425	A
25	DA	2427	C
25	DA	2428	G
25	DA	2429	G
25	DA	2430	A
25	DA	2431	U
25	DA	2439	A
25	DA	2441	C
25	DA	2445	G
25	DA	2447	G
25	DA	2448	A
25	DA	2449	U
25	DA	2469	A
25	DA	2476	A
25	DA	2478	A
25	DA	2487	G
25	DA	2491	U
25	DA	2498	C
25	DA	2502	G
25	DA	2503	A
25	DA	2504	U
25	DA	2505	G
25	DA	2506	U

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Mol	Chain	Res	Type
25	DA	2518	A
25	DA	2520	C
25	DA	2529	G
25	DA	2542	A
25	DA	2543	G
25	DA	2554	U
25	DA	2562	U
25	DA	2566	A
25	DA	2567	G
25	DA	2572	A
25	DA	2573	C
25	DA	2574	G
25	DA	2578	G
25	DA	2585	U
25	DA	2602	A
25	DA	2603	G
25	DA	2609	U
25	DA	2610	C
25	DA	2611	U
25	DA	2612	C
25	DA	2630	G
25	DA	2665	A
25	DA	2690	C
25	DA	2712	U
25	DA	712(B)	A
25	DA	2713	A
25	DA	2714	G
25	DA	2733	A
25	DA	2748	A
25	DA	2757	A
25	DA	2765	A
25	DA	2766	G
25	DA	2778	A
25	DA	2779	U
25	DA	2781	A
25	DA	2790	A
25	DA	2791	C
25	DA	2792	G
25	DA	2797	U
25	DA	2808	U
25	DA	2820	A
25	DA	2821	A

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Mol	Chain	Res	Type
25	DA	2849	U
25	DA	2872	G
25	DA	2873	A
25	DA	2874	C
25	DA	2892	A
25	DA	2894	G
26	DB	15	A
26	DB	16	G
26	DB	25	A
26	DB	35	U
26	DB	42	C
26	DB	45	A
26	DB	52	A
26	DB	67	G
26	DB	73	A
26	DB	88	C
26	DB	90	C
26	DB	109	G

All (325) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	AA	30	U
1	AA	48	C
1	AA	60	A
1	AA	115	G
1	AA	119	A
1	AA	149	A
1	AA	181	G
1	AA	243	A
1	AA	244	U
1	AA	246	A
1	AA	250	A
1	AA	266	G
1	AA	315	A
1	AA	328	C
1	AA	358	U
1	AA	366	C
1	AA	372	C
1	AA	412	A
1	AA	428	G
1	AA	429	U

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Mol	Chain	Res	Type
1	AA	438	G
1	AA	484	G
1	AA	496	A
1	AA	508	C
1	AA	509	A
1	AA	533	A
1	AA	560	U
1	AA	561	U
1	AA	687	A
1	AA	748	C
1	AA	815	A
1	AA	843	U
1	AA	872	A
1	AA	884	U
1	AA	913	A
1	AA	968	A
1	AA	971	G
1	AA	978	A
1	AA	1049	U
1	AA	1064	G
1	AA	1065	U
1	AA	1067	A
1	AA	1129	C
1	AA	1145	C
1	AA	1201	A
1	AA	1213	A
1	AA	1239	A
1	AA	1281	U
1	AA	1285	A
1	AA	1300	G
1	AA	1491	G
1	AA	1498	U
1	AA	1503	A
1	AA	1504	G
1	AA	1505	G
1	AA	1507	A
2	AZ	17(A)	U
3	AV	18	G
2	AY	17(A)	U
2	AY	21	A
25	BA	34	C
25	BA	60	G

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Mol	Chain	Res	Type
25	BA	63	U
25	BA	74	A
25	BA	101	G
25	BA	120	U
25	BA	177	G
25	BA	196	A
25	BA	199	A
25	BA	221	A
25	BA	270(N)	U
25	BA	271(A)	U
25	BA	278	A
25	BA	283	A
25	BA	310	A
25	BA	321	G
25	BA	331	A
25	BA	332	A
25	BA	455	C
25	BA	457	A
25	BA	479	A
25	BA	531	C
25	BA	532	A
25	BA	571	A
25	BA	616	A
25	BA	652	U
25	BA	675	A
25	BA	685	A
25	BA	746	A
25	BA	762	U
25	BA	764	A
25	BA	776	G
25	BA	801	G
25	BA	829	A
25	BA	945	A
25	BA	974(A)	G
25	BA	1008	C
25	BA	1022	G
25	BA	1047	G
25	BA	1069	A
25	BA	1071	G
25	BA	1089	G
25	BA	1131	G
25	BA	1154	G

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Mol	Chain	Res	Type
25	BA	1190	G
25	BA	1210	A
25	BA	1211	U
25	BA	1253	A
25	BA	1266	G
25	BA	1300	U
25	BA	1301	A
25	BA	1378	A
25	BA	1379	A
25	BA	1419	A
25	BA	1427	A
25	BA	1451	C
25	BA	1453	A
25	BA	1458	C
25	BA	1494	A
25	BA	1495	A
25	BA	1542	G
25	BA	1558	A
25	BA	1608	A
25	BA	1617	C
25	BA	1800	C
25	BA	1816	G
25	BA	1829	A
25	BA	1838	C
25	BA	1847	A
25	BA	1937	A
25	BA	1938	A
25	BA	1939	U
25	BA	1970	A
25	BA	1980	G
25	BA	1992	G
25	BA	2022	U
25	BA	2033	A
25	BA	2060	A
25	BA	2172	U
25	BA	2225	A
25	BA	2282	G
25	BA	2311	A
25	BA	2319	G
25	BA	2320	A
25	BA	2345	G
25	BA	2422	A

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Mol	Chain	Res	Type
25	BA	2427	C
25	BA	2428	G
25	BA	2448	A
25	BA	2502	G
25	BA	2529	G
25	BA	2542	A
25	BA	2572	A
25	BA	2603	G
25	BA	2610	C
25	BA	2689	U
25	BA	2756	U
25	BA	2776	A
25	BA	2791	C
25	BA	2866	U
25	BA	2873	A
26	BB	56	G
1	CA	30	U
1	CA	48	C
1	CA	60	A
1	CA	115	G
1	CA	119	A
1	CA	149	A
1	CA	181	G
1	CA	243	A
1	CA	244	U
1	CA	246	A
1	CA	250	A
1	CA	266	G
1	CA	315	A
1	CA	328	C
1	CA	358	U
1	CA	366	C
1	CA	372	C
1	CA	412	A
1	CA	428	G
1	CA	429	U
1	CA	438	G
1	CA	484	G
1	CA	496	A
1	CA	508	C
1	CA	509	A
1	CA	533	A

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Mol	Chain	Res	Type
1	CA	560	U
1	CA	561	U
1	CA	687	A
1	CA	748	C
1	CA	815	A
1	CA	843	U
1	CA	872	A
1	CA	884	U
1	CA	913	A
1	CA	968	A
1	CA	971	G
1	CA	978	A
1	CA	1049	U
1	CA	1064	G
1	CA	1065	U
1	CA	1067	A
1	CA	1129	C
1	CA	1145	C
1	CA	1201	A
1	CA	1213	A
1	CA	1239	A
1	CA	1281	U
1	CA	1285	A
1	CA	1300	G
1	CA	1491	G
1	CA	1498	U
1	CA	1503	A
1	CA	1504	G
1	CA	1505	G
1	CA	1507	A
2	CZ	17(A)	U
3	CV	18	G
2	CY	17(A)	U
2	CY	21	A
25	DA	34	C
25	DA	60	G
25	DA	63	U
25	DA	74	A
25	DA	101	G
25	DA	120	U
25	DA	177	G
25	DA	196	A

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Mol	Chain	Res	Type
25	DA	199	A
25	DA	221	A
25	DA	270(N)	U
25	DA	271(A)	U
25	DA	278	A
25	DA	283	A
25	DA	310	A
25	DA	321	G
25	DA	331	A
25	DA	332	A
25	DA	455	C
25	DA	457	A
25	DA	479	A
25	DA	531	C
25	DA	532	A
25	DA	571	A
25	DA	616	A
25	DA	652	U
25	DA	675	A
25	DA	685	A
25	DA	746	A
25	DA	762	U
25	DA	764	A
25	DA	776	G
25	DA	829	A
25	DA	945	A
25	DA	974(A)	G
25	DA	1008	C
25	DA	1022	G
25	DA	1047	G
25	DA	1069	A
25	DA	1071	G
25	DA	1089	G
25	DA	1131	G
25	DA	1154	G
25	DA	1190	G
25	DA	1210	A
25	DA	1211	U
25	DA	1253	A
25	DA	1266	G
25	DA	1300	U
25	DA	1301	A

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Mol	Chain	Res	Type
25	DA	1378	A
25	DA	1379	A
25	DA	1419	A
25	DA	1427	A
25	DA	1451	C
25	DA	1453	A
25	DA	1458	C
25	DA	1494	A
25	DA	1495	A
25	DA	1542	G
25	DA	1558	A
25	DA	1608	A
25	DA	1617	C
25	DA	1800	C
25	DA	1816	G
25	DA	1829	A
25	DA	1838	C
25	DA	1847	A
25	DA	1937	A
25	DA	1938	A
25	DA	1939	U
25	DA	1970	A
25	DA	1980	G
25	DA	1992	G
25	DA	2022	U
25	DA	2033	A
25	DA	2060	A
25	DA	2092	U
25	DA	2172	U
25	DA	2225	A
25	DA	2282	G
25	DA	2311	A
25	DA	2319	G
25	DA	2320	A
25	DA	2345	G
25	DA	2422	A
25	DA	2427	C
25	DA	2428	G
25	DA	2448	A
25	DA	2502	G
25	DA	2529	G
25	DA	2542	A

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Mol	Chain	Res	Type
25	DA	2572	A
25	DA	2603	G
25	DA	2610	C
25	DA	2689	U
25	DA	2713	A
25	DA	2756	U
25	DA	2776	A
25	DA	2791	C
25	DA	2866	U
25	DA	2873	A
26	DB	56	G

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 2581 ligands modelled in this entry, 2581 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	AA	1504/1525 (98%)	0.27	76 (5%) 32 18	85, 138, 234, 323	0
1	CA	1504/1525 (98%)	0.51	140 (9%) 11 6	93, 155, 241, 322	0
2	AY	77/77 (100%)	-0.21	0 100 100	97, 129, 164, 212	0
2	AZ	77/77 (100%)	1.04	11 (14%) 4 2	216, 256, 275, 295	0
2	CY	77/77 (100%)	-0.15	0 100 100	86, 127, 171, 213	0
2	CZ	77/77 (100%)	0.92	13 (16%) 2 1	219, 254, 280, 289	0
3	AV	12/27 (44%)	1.22	3 (25%) 1 1	120, 129, 207, 226	0
3	CV	12/27 (44%)	2.09	4 (33%) 0 0	118, 127, 212, 221	0
4	AB	234/256 (91%)	1.28	64 (27%) 1 0	155, 190, 223, 247	0
4	CB	234/256 (91%)	1.37	71 (30%) 1 0	158, 188, 218, 246	0
5	AC	206/239 (86%)	0.49	21 (10%) 9 5	160, 191, 220, 245	0
5	CC	206/239 (86%)	0.95	40 (19%) 1 1	157, 174, 194, 224	0
6	AD	208/209 (99%)	1.11	47 (22%) 1 1	125, 146, 174, 188	0
6	CD	208/209 (99%)	1.44	67 (32%) 1 0	146, 177, 205, 230	0
7	AE	151/162 (93%)	0.73	21 (13%) 4 2	124, 145, 174, 198	0
7	CE	151/162 (93%)	0.96	30 (19%) 1 1	133, 154, 184, 220	0
8	AF	101/101 (100%)	0.25	11 (10%) 7 4	128, 148, 172, 192	0
8	CF	101/101 (100%)	0.35	7 (6%) 20 11	133, 151, 182, 195	0
9	AG	155/156 (99%)	0.70	26 (16%) 2 1	150, 170, 198, 213	0
9	CG	155/156 (99%)	0.55	21 (13%) 4 2	149, 171, 195, 210	0
10	AH	138/138 (100%)	1.52	42 (30%) 1 0	121, 147, 175, 193	0
10	CH	138/138 (100%)	1.26	33 (23%) 1 1	138, 162, 187, 202	0
11	AI	127/128 (99%)	3.37	78 (61%) 0 0	150, 194, 216, 233	0
11	CI	127/128 (99%)	3.28	78 (61%) 0 0	154, 183, 205, 227	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å ²)	Q<0.9
12	AJ	98/105 (93%)	1.33	26 (26%)	1	0	161, 211, 241, 252	0
12	CJ	98/105 (93%)	2.24	43 (43%)	0	0	159, 190, 217, 226	0
13	AK	119/129 (92%)	0.87	24 (20%)	1	1	117, 147, 176, 185	0
13	CK	119/129 (92%)	1.15	26 (21%)	1	1	114, 136, 169, 204	0
14	AL	124/134 (92%)	0.64	17 (13%)	4	2	106, 118, 143, 171	0
14	CL	124/134 (92%)	0.99	18 (14%)	3	2	122, 134, 161, 208	0
15	AM	117/126 (92%)	1.96	48 (41%)	0	0	152, 182, 203, 216	0
15	CM	117/126 (92%)	1.78	42 (35%)	0	0	164, 193, 219, 240	0
16	AN	60/61 (98%)	2.58	33 (55%)	0	0	171, 185, 211, 230	0
16	CN	60/61 (98%)	2.67	30 (50%)	0	0	163, 173, 205, 214	0
17	AO	88/89 (98%)	1.06	22 (25%)	1	1	114, 134, 161, 176	0
17	CO	88/89 (98%)	1.20	22 (25%)	1	1	121, 148, 175, 193	0
18	AP	83/88 (94%)	2.35	45 (54%)	0	0	120, 133, 162, 173	0
18	CP	83/88 (94%)	3.58	52 (62%)	0	0	154, 178, 202, 235	0
19	AQ	99/105 (94%)	1.36	30 (30%)	1	0	115, 126, 154, 159	0
19	CQ	99/105 (94%)	1.78	29 (29%)	1	0	122, 151, 171, 188	0
20	AR	70/88 (79%)	0.86	14 (20%)	1	1	134, 151, 184, 198	0
20	CR	70/88 (79%)	0.67	7 (10%)	9	5	131, 147, 174, 191	0
21	AS	78/93 (83%)	2.15	32 (41%)	0	0	163, 192, 214, 226	0
21	CS	78/93 (83%)	1.96	38 (48%)	0	0	171, 196, 216, 232	0
22	AT	99/106 (93%)	1.88	40 (40%)	0	0	126, 144, 174, 200	0
22	CT	99/106 (93%)	2.47	49 (49%)	0	0	155, 177, 205, 234	0
23	AU	24/27 (88%)	6.02	22 (91%)	0	0	195, 213, 232, 241	0
23	CU	24/27 (88%)	5.73	21 (87%)	0	0	180, 201, 227, 248	0
24	AX	354/354 (100%)	1.12	78 (22%)	1	1	98, 137, 242, 255	0
24	CX	354/354 (100%)	1.56	98 (27%)	1	0	105, 134, 292, 310	0
25	BA	2879/2894 (99%)	0.19	154 (5%)	30	17	65, 112, 248, 354	0
25	DA	2879/2894 (99%)	0.17	147 (5%)	32	18	59, 110, 238, 321	0
26	BB	119/124 (95%)	0.22	6 (5%)	32	19	138, 171, 208, 265	0
26	DB	119/124 (95%)	0.20	7 (5%)	26	14	132, 181, 215, 265	0
27	BD	271/276 (98%)	0.77	40 (14%)	3	2	98, 122, 149, 167	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å ²)	Q<0.9
27	DD	271/276 (98%)	0.88	51 (18%)	2	1	93, 115, 140, 163	0
28	BE	204/206 (99%)	1.46	66 (32%)	1	0	95, 126, 164, 180	0
28	DE	204/206 (99%)	1.10	44 (21%)	1	1	99, 141, 171, 194	0
29	BF	202/210 (96%)	0.54	17 (8%)	14	7	97, 142, 175, 194	0
29	DF	202/210 (96%)	1.17	50 (24%)	1	1	92, 132, 163, 183	0
30	BG	181/182 (99%)	1.10	47 (25%)	1	0	147, 198, 223, 252	0
30	DG	181/182 (99%)	1.60	60 (33%)	0	0	146, 197, 233, 251	0
31	BH	159/180 (88%)	2.36	77 (48%)	0	0	141, 172, 206, 222	0
31	DH	159/180 (88%)	0.85	28 (17%)	2	1	148, 172, 202, 215	0
32	BI	145/148 (97%)	3.80	87 (60%)	0	0	134, 211, 264, 286	0
32	DI	145/148 (97%)	2.50	68 (46%)	0	0	125, 203, 254, 286	0
33	BJ	32/173 (18%)	5.39	29 (90%)	0	0	203, 228, 245, 262	0
33	DJ	32/173 (18%)	4.35	26 (81%)	0	0	188, 222, 247, 258	0
34	BN	137/163 (84%)	1.69	48 (35%)	0	0	110, 142, 167, 219	0
34	DN	137/163 (84%)	1.26	37 (27%)	1	0	112, 140, 165, 184	0
35	BO	122/122 (100%)	0.74	17 (13%)	4	2	104, 113, 133, 184	0
35	DO	122/122 (100%)	1.19	28 (22%)	1	1	111, 128, 146, 175	0
36	BP	146/150 (97%)	1.40	41 (28%)	1	0	105, 145, 182, 203	0
36	DP	146/150 (97%)	0.89	26 (17%)	2	1	100, 143, 178, 198	0
37	BQ	136/141 (96%)	1.83	49 (36%)	0	0	109, 142, 172, 226	0
37	DQ	136/141 (96%)	2.54	59 (43%)	0	0	105, 140, 174, 226	0
38	BR	117/118 (99%)	1.63	39 (33%)	0	0	102, 116, 153, 180	0
38	DR	117/118 (99%)	1.68	39 (33%)	0	0	108, 129, 167, 183	0
39	BS	98/112 (87%)	2.07	39 (39%)	0	0	164, 192, 215, 232	0
39	DS	98/112 (87%)	1.38	30 (30%)	1	0	164, 197, 225, 240	0
40	BT	137/146 (93%)	0.56	19 (13%)	4	2	107, 120, 163, 190	0
40	DT	137/146 (93%)	1.20	39 (28%)	1	0	121, 145, 189, 205	0
41	BU	117/118 (99%)	1.01	26 (22%)	1	1	109, 144, 175, 196	0
41	DU	117/118 (99%)	1.49	39 (33%)	0	0	102, 136, 170, 183	0
42	BV	101/101 (100%)	0.76	20 (19%)	1	1	110, 160, 187, 202	0
42	DV	101/101 (100%)	1.02	21 (20%)	1	1	104, 150, 183, 202	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
43	BW	112/113 (99%)	0.90	13 (11%) 6 4	95, 118, 156, 181	0
43	DW	112/113 (99%)	0.73	12 (10%) 8 4	92, 116, 145, 172	0
44	BX	92/96 (95%)	1.33	29 (31%) 1 0	111, 129, 161, 179	0
44	DX	92/96 (95%)	1.21	25 (27%) 1 0	101, 120, 145, 174	0
45	BY	100/110 (90%)	3.08	59 (59%) 0 0	131, 150, 181, 216	0
45	DY	100/110 (90%)	2.35	47 (47%) 0 0	115, 135, 172, 199	0
46	BZ	188/206 (91%)	1.51	58 (30%) 1 0	138, 180, 207, 229	0
46	DZ	188/206 (91%)	0.76	35 (18%) 2 1	134, 173, 200, 215	0
47	B0	76/85 (89%)	2.54	35 (46%) 0 0	116, 147, 174, 187	0
47	D0	76/85 (89%)	2.48	39 (51%) 0 0	115, 148, 175, 193	0
48	B1	88/98 (89%)	1.11	16 (18%) 2 1	107, 128, 162, 180	0
48	D1	88/98 (89%)	1.02	17 (19%) 2 1	102, 121, 165, 187	0
49	B2	72/72 (100%)	1.02	15 (20%) 1 1	128, 148, 181, 208	0
49	D2	72/72 (100%)	1.18	19 (26%) 1 0	115, 129, 183, 197	0
50	B3	59/60 (98%)	2.05	22 (37%) 0 0	127, 147, 180, 210	0
50	D3	59/60 (98%)	1.31	14 (23%) 1 1	121, 143, 172, 212	0
51	B4	30/97 (30%)	2.01	12 (40%) 0 0	204, 221, 244, 244	0
51	D4	30/97 (30%)	1.48	8 (26%) 1 0	208, 226, 243, 245	0
52	B5	52/60 (86%)	0.73	7 (13%) 4 2	98, 120, 159, 188	0
52	D5	52/60 (86%)	0.29	2 (3%) 44 29	96, 126, 177, 192	0
53	B6	44/54 (81%)	6.27	42 (95%) 0 0	132, 166, 195, 199	0
53	D6	44/54 (81%)	6.83	34 (77%) 0 0	134, 165, 193, 200	0
54	B7	48/49 (97%)	0.75	5 (10%) 8 5	98, 105, 132, 171	0
54	D7	48/49 (97%)	0.48	3 (6%) 23 13	92, 97, 120, 175	0
55	B8	63/65 (96%)	2.28	33 (52%) 0 0	115, 125, 158, 176	0
55	D8	63/65 (96%)	2.39	39 (61%) 0 0	109, 124, 151, 190	0
All	All	21460/22658 (94%)	0.94	4070 (18%) 2 1	59, 143, 230, 354	0

All (4070) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	AA	80	G	43.6
1	AA	81	G	36.7

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Mol	Chain	Res	Type	RSRZ
32	BI	85	GLU	27.2
53	B6	13	CYS	23.0
37	DQ	140	ALA	22.4
24	CX	27	ASP	22.4
24	AX	65	LEU	21.3
32	BI	84	GLY	19.6
1	AA	84	U	19.6
32	DI	88	ILE	18.2
24	CX	26	LYS	17.7
24	AX	66	ASP	17.6
18	CP	17	TYR	17.5
11	CI	7	THR	16.7
10	AH	1	MET	16.4
53	B6	52	VAL	15.9
1	CA	80	G	15.7
24	AX	64	LEU	15.4
53	D6	14	THR	15.3
24	CX	24	VAL	15.3
45	BY	52	SER	15.1
32	BI	109	ILE	15.1
25	BA	1174	A	14.5
53	B6	51	GLU	14.2
1	AA	82	U	14.2
2	AZ	17(A)	U	14.2
45	DY	52	SER	14.2
32	BI	111	PRO	14.2
32	BI	86	THR	14.2
24	CX	28	LYS	13.9
24	CX	29	GLY	13.8
14	CL	127	ALA	13.8
33	DJ	59	ILE	13.8
30	BG	2	PRO	13.7
19	CQ	7	THR	13.6
18	CP	29	ASP	13.5
32	DI	132	PRO	13.4
12	CJ	73	ASP	13.3
37	BQ	140	ALA	13.3
15	AM	101	GLN	13.2
24	CX	31	TYR	13.2
24	CX	30	ARG	13.1
53	D6	49	HIS	13.0
2	CZ	17(A)	U	13.0

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Mol	Chain	Res	Type	RSRZ
33	BJ	12	THR	12.9
16	CN	13	THR	12.7
19	CQ	8	GLY	12.6
53	D6	12	GLU	12.5
11	CI	66	ARG	12.5
53	D6	20	ASN	12.5
53	D6	50	ARG	12.5
33	BJ	67	GLY	12.5
23	AU	19	GLY	12.5
23	AU	2	GLY	12.2
53	D6	11	LEU	12.1
2	CZ	17	C	12.1
16	CN	14	PRO	12.1
1	AA	85	U	12.0
13	AK	129	SER	12.0
53	D6	35	GLU	12.0
53	B6	14	THR	11.9
11	CI	8	GLY	11.9
23	CU	17	THR	11.9
1	CA	81	G	11.9
43	BW	1	MET	11.9
25	BA	1084	A	11.9
12	CJ	74	ILE	11.8
37	DQ	106	VAL	11.8
53	D6	37	ARG	11.8
53	D6	26	ASN	11.8
2	AZ	17	C	11.7
10	AH	2	LEU	11.7
16	CN	2	ALA	11.7
32	DI	80	PRO	11.7
47	B0	42	GLY	11.7
23	CU	14	TRP	11.6
53	D6	28	ARG	11.5
45	DY	53	PRO	11.4
18	CP	7	ALA	11.4
45	DY	51	VAL	11.3
15	AM	100	GLY	11.2
23	CU	23	PRO	11.2
18	CP	9	PHE	11.2
30	DG	34	LEU	11.1
23	CU	2	GLY	11.1
32	BI	36	ALA	10.9

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Mol	Chain	Res	Type	RSRZ
31	BH	104	GLU	10.9
32	BI	65	ALA	10.9
53	D6	51	GLU	10.9
45	BY	6	HIS	10.9
39	BS	58	LEU	10.9
23	AU	18	TYR	10.8
43	BW	109	GLU	10.8
22	CT	18	GLN	10.8
53	B6	16	CYS	10.7
5	AC	155	GLY	10.7
24	CX	23	GLU	10.7
33	DJ	63	LEU	10.7
24	CX	25	LEU	10.7
53	D6	36	LEU	10.7
23	CU	18	TYR	10.6
18	CP	16	HIS	10.6
18	CP	8	ARG	10.5
32	BI	68	LEU	10.5
13	AK	128	ALA	10.5
36	BP	110	TYR	10.5
47	B0	76	GLY	10.4
45	BY	53	PRO	10.4
53	D6	21	TYR	10.3
11	AI	12	GLU	10.3
37	DQ	105	GLU	10.3
45	BY	5	MET	10.3
39	BS	52	SER	10.3
37	DQ	107	ALA	10.2
25	BA	2148	G	10.2
11	AI	105	ASP	10.2
45	BY	3	VAL	10.2
15	CM	5	ALA	10.1
53	D6	24	GLU	10.1
37	DQ	139	GLU	10.1
11	CI	67	GLY	10.1
21	AS	37	ARG	10.0
33	DJ	14	LYS	10.0
32	BI	137	PRO	9.9
20	AR	31	LEU	9.9
11	AI	66	ARG	9.9
32	BI	72	LEU	9.9
33	DJ	67	GLY	9.9

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Mol	Chain	Res	Type	RSRZ
37	DQ	132	VAL	9.8
21	CS	71	LEU	9.8
31	BH	103	LEU	9.8
6	CD	70	ILE	9.7
32	DI	84	GLY	9.7
24	AX	67	ASP	9.7
11	CI	65	VAL	9.6
5	CC	169	ALA	9.6
31	BH	101	ARG	9.6
37	DQ	33	GLY	9.5
24	CX	68	PRO	9.5
45	BY	2	ARG	9.5
53	B6	39	TYR	9.4
21	AS	81	ARG	9.4
53	D6	25	LYS	9.4
53	D6	13	CYS	9.4
1	AA	1257	U	9.4
13	CK	128	ALA	9.4
24	AX	99	LYS	9.3
11	CI	15	ALA	9.3
45	BY	59	GLY	9.3
32	DI	94	ALA	9.3
37	DQ	31	ASP	9.2
32	DI	120	ILE	9.2
22	CT	64	ASP	9.2
45	BY	50	ARG	9.2
37	DQ	32	PHE	9.2
30	DG	2	PRO	9.2
32	BI	131	LYS	9.2
24	CX	21	ASP	9.2
11	AI	10	ARG	9.1
32	BI	119	PRO	9.1
53	B6	20	ASN	9.1
52	B5	53	ALA	9.1
53	B6	49	HIS	9.0
32	BI	121	LYS	9.0
18	CP	30	GLY	9.0
11	CI	117	HIS	9.0
21	AS	10	PHE	9.0
12	CJ	59	SER	9.0
32	DI	92	VAL	9.0
53	D6	29	ASN	9.0

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Mol	Chain	Res	Type	RSRZ
11	AI	64	THR	9.0
37	BQ	32	PHE	9.0
22	CT	63	ILE	8.9
16	AN	14	PRO	8.9
15	AM	102	ARG	8.9
24	CX	19	LEU	8.9
53	D6	52	VAL	8.9
25	DA	1174	A	8.9
12	CJ	58	ASP	8.8
31	DH	170	ARG	8.8
43	BW	2	GLU	8.8
10	CH	1	MET	8.8
45	BY	51	VAL	8.8
23	CU	16	GLY	8.8
47	D0	76	GLY	8.8
36	DP	65	ARG	8.7
16	CN	12	ARG	8.7
25	BA	1099	G	8.7
32	DI	90	GLY	8.7
45	DY	59	GLY	8.7
11	AI	63	ILE	8.7
6	AD	4	TYR	8.7
25	BA	2799	A	8.7
1	CA	1257	U	8.7
32	BI	100	ALA	8.7
32	BI	128	LEU	8.7
33	DJ	62	ALA	8.6
18	CP	1	MET	8.6
33	BJ	11	ALA	8.6
47	B0	40	GLN	8.6
47	B0	75	LEU	8.6
53	D6	19	ARG	8.6
32	DI	70	GLU	8.6
11	AI	65	VAL	8.6
23	AU	15	ARG	8.5
18	CP	28	ARG	8.5
25	BA	1074	G	8.5
32	BI	43	ASN	8.5
21	AS	70	LYS	8.4
50	B3	1	MET	8.4
45	DY	2	ARG	8.4
32	BI	54	GLN	8.3

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Mol	Chain	Res	Type	RSRZ
21	AS	71	LEU	8.3
53	B6	40	CYS	8.3
25	BA	2797	U	8.3
25	BA	2146	C	8.3
12	CJ	5	ARG	8.3
47	D0	78	TYR	8.3
33	DJ	6	ASN	8.2
37	DQ	141	GLN	8.2
23	AU	17	THR	8.2
46	DZ	27	VAL	8.2
29	DF	207	GLY	8.1
5	CC	168	ALA	8.1
11	AI	120	ARG	8.1
32	BI	35	LEU	8.1
31	BH	123	PHE	8.1
55	D8	64	TYR	8.1
31	DH	169	VAL	8.1
37	DQ	133	ARG	8.1
11	CI	79	LEU	8.1
33	BJ	3	ASN	8.1
25	BA	2165	G	8.0
13	CK	129	SER	8.0
53	D6	10	LEU	8.0
11	AI	14	VAL	7.9
23	CU	15	ARG	7.9
47	D0	58	THR	7.9
10	AH	52	ASP	7.9
21	CS	74	PHE	7.9
11	CI	80	GLY	7.8
21	AS	78	ARG	7.8
38	DR	8	ARG	7.8
38	BR	72	ASP	7.8
53	B6	31	PRO	7.8
9	CG	82	GLY	7.8
53	B6	26	ASN	7.8
1	AA	1001	G	7.8
33	BJ	66	LEU	7.7
23	AU	14	TRP	7.7
24	CX	18	LEU	7.7
22	CT	15	ARG	7.7
23	AU	16	GLY	7.7
11	AI	51	ARG	7.7

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Mol	Chain	Res	Type	RSRZ
12	CJ	4	ILE	7.7
12	CJ	72	VAL	7.7
49	B2	3	LEU	7.7
33	BJ	19	ARG	7.7
46	BZ	96	VAL	7.7
15	AM	32	GLU	7.6
32	DI	66	GLU	7.6
42	BV	73	SER	7.6
18	CP	18	ARG	7.6
47	B0	72	ARG	7.6
9	AG	13	GLN	7.6
31	BH	100	GLY	7.6
10	CH	132	GLU	7.5
11	CI	64	THR	7.5
53	B6	22	ALA	7.5
1	CA	1249	C	7.5
45	DY	50	ARG	7.5
1	CA	1451	A	7.5
3	CV	13	A	7.5
39	BS	34	HIS	7.5
36	BP	102	ARG	7.5
4	AB	7	VAL	7.5
24	CX	69	GLU	7.5
21	AS	39	THR	7.4
47	B0	45	PHE	7.4
30	BG	140	ILE	7.4
15	CM	98	VAL	7.4
22	CT	80	ARG	7.4
39	BS	36	TYR	7.4
32	DI	71	ILE	7.4
16	AN	13	THR	7.4
24	CX	13	ARG	7.4
32	BI	50	ARG	7.4
36	BP	148	LEU	7.4
38	BR	68	ARG	7.4
15	CM	96	LEU	7.4
11	CI	43	ALA	7.4
24	AX	70	LEU	7.4
5	CC	149	ALA	7.3
11	AI	29	ASN	7.3
37	BQ	141	GLN	7.3
53	B6	38	LYS	7.3

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Mol	Chain	Res	Type	RSRZ
25	DA	2797	U	7.3
33	BJ	8	GLU	7.3
47	B0	78	TYR	7.3
34	DN	97	ARG	7.3
24	AX	155	PHE	7.3
22	CT	19	SER	7.3
11	CI	9	ARG	7.3
37	BQ	27	VAL	7.3
22	CT	65	LYS	7.3
23	AU	13	ILE	7.2
15	CM	45	VAL	7.2
31	BH	43	VAL	7.2
32	BI	58	LEU	7.2
30	BG	13	GLU	7.2
25	BA	2116	G	7.2
31	BH	115	VAL	7.2
4	CB	7	VAL	7.2
18	AP	36	ILE	7.2
53	D6	9	LEU	7.2
24	CX	33	SER	7.1
23	AU	10	ARG	7.1
31	BH	105	LEU	7.1
11	AI	61	ALA	7.1
32	DI	63	ALA	7.1
6	AD	66	ARG	7.1
46	BZ	80	ARG	7.1
5	AC	206	GLU	7.1
14	AL	127	ALA	7.1
53	B6	21	TYR	7.1
33	BJ	5	ARG	7.1
21	AS	38	SER	7.1
25	BA	2319	G	7.1
24	CX	92	LEU	7.1
15	CM	63	THR	7.1
31	BH	161	GLY	7.1
13	AK	11	LYS	7.0
39	BS	89	ARG	7.0
53	D6	15	GLU	7.0
39	BS	54	LEU	7.0
1	AA	79	G	7.0
46	DZ	80	ARG	7.0
47	B0	71	ASP	7.0

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Mol	Chain	Res	Type	RSRZ
2	AZ	20	U	7.0
36	DP	68	GLN	7.0
25	DA	2125	G	6.9
11	CI	112	LYS	6.9
31	BH	102	ALA	6.9
40	DT	106	SER	6.9
25	BA	1100	C	6.9
23	CU	25	LYS	6.9
31	BH	89	ILE	6.9
25	BA	2147	G	6.9
32	BI	13	GLY	6.9
21	CS	81	ARG	6.8
47	D0	75	LEU	6.8
49	B2	4	SER	6.8
33	BJ	16	ASN	6.8
39	DS	13	ARG	6.8
38	BR	67	LEU	6.8
15	AM	103	THR	6.8
16	AN	17	LYS	6.8
45	DY	3	VAL	6.8
32	DI	89	TYR	6.8
32	DI	130	TYR	6.8
35	DO	98	VAL	6.8
36	DP	67	MET	6.8
32	DI	67	ARG	6.8
34	BN	142	ARG	6.8
53	B6	15	GLU	6.8
11	AI	119	ALA	6.8
12	AJ	58	ASP	6.8
32	BI	14	ASP	6.8
24	CX	44	VAL	6.7
30	DG	35	GLU	6.7
33	BJ	9	LEU	6.7
12	CJ	19	SER	6.7
9	AG	16	LEU	6.7
22	CT	83	ARG	6.7
45	DY	35	TYR	6.7
30	BG	138	GLN	6.7
32	BI	61	ARG	6.7
33	BJ	64	LYS	6.7
25	BA	2121	G	6.7
25	BA	1090	U	6.7

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Mol	Chain	Res	Type	RSRZ
37	BQ	30	GLY	6.7
32	BI	87	LYS	6.7
18	CP	39	TYR	6.7
16	AN	18	VAL	6.7
15	AM	64	TRP	6.7
28	BE	5	LEU	6.7
42	DV	94	LEU	6.7
22	CT	68	LYS	6.6
33	DJ	13	LEU	6.6
4	CB	96	ARG	6.6
32	DI	86	THR	6.6
49	D2	15	LYS	6.6
40	DT	1	MET	6.6
24	CX	20	SER	6.6
22	AT	75	ASN	6.6
31	BH	114	VAL	6.6
18	CP	6	LEU	6.6
45	BY	62	GLU	6.6
31	BH	64	LEU	6.6
32	BI	129	THR	6.6
11	AI	15	ALA	6.6
24	CX	40	GLU	6.6
11	AI	7	THR	6.6
11	AI	18	PHE	6.6
18	CP	19	ILE	6.6
32	BI	134	PRO	6.6
47	B0	77	ARG	6.5
53	D6	18	ARG	6.5
28	BE	27	LEU	6.5
37	BQ	108	GLY	6.5
43	BW	108	GLY	6.5
47	D0	46	LYS	6.5
1	CA	91	C	6.5
25	BA	1573	G	6.5
25	BA	2334	G	6.5
5	CC	12	LEU	6.5
12	AJ	59	SER	6.5
11	AI	17	VAL	6.5
11	CI	119	ALA	6.5
25	BA	2897	U	6.5
46	DZ	28	MET	6.5
11	CI	113	LYS	6.5

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Mol	Chain	Res	Type	RSRZ
15	AM	87	TYR	6.5
18	AP	64	ALA	6.5
1	CA	843	U	6.5
25	DA	2334	G	6.4
12	AJ	73	ASP	6.4
11	CI	33	PHE	6.4
23	CU	7	ARG	6.4
47	B0	53	MET	6.4
22	AT	26	ASN	6.4
46	DZ	88	PHE	6.4
40	DT	135	VAL	6.4
34	BN	73	ASP	6.4
13	CK	127	LYS	6.4
22	AT	77	ALA	6.4
37	DQ	104	PHE	6.4
53	B6	17	LYS	6.4
15	AM	43	THR	6.4
1	CA	107	G	6.4
23	CU	22	ARG	6.3
10	CH	89	PRO	6.3
47	D0	57	PHE	6.3
22	CT	9	ASN	6.3
11	AI	44	VAL	6.3
15	AM	5	ALA	6.3
18	AP	1	MET	6.3
46	BZ	81	ARG	6.3
32	BI	1	MET	6.3
5	AC	171	GLY	6.3
18	CP	65	GLN	6.3
45	DY	34	LYS	6.3
25	DA	2801	A	6.3
4	AB	130	ARG	6.3
1	AA	1044	A	6.3
11	AI	11	LYS	6.3
34	BN	139	LEU	6.2
47	B0	73	GLY	6.2
25	BA	2798	C	6.2
9	CG	31	MET	6.2
25	DA	508	G	6.2
11	CI	82	ALA	6.2
47	B0	41	ARG	6.2
1	CA	92	G	6.2

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Mol	Chain	Res	Type	RSRZ
24	CX	3	ASP	6.2
25	BA	1101	U	6.2
47	D0	42	GLY	6.2
17	AO	68	ARG	6.2
19	CQ	24	GLU	6.2
33	DJ	10	LEU	6.2
18	CP	38	TYR	6.2
18	AP	65	GLN	6.2
37	DQ	65	PHE	6.2
25	BA	1083	U	6.2
25	DA	2799	A	6.2
31	BH	98	LEU	6.2
10	AH	56	LYS	6.2
16	AN	19	ARG	6.2
33	BJ	14	LYS	6.2
34	BN	59	GLY	6.2
1	CA	998(A)	G	6.2
25	BA	1383	C	6.2
29	DF	22	ALA	6.2
36	BP	50	ARG	6.2
25	BA	2801	A	6.2
47	D0	52	GLY	6.2
18	CP	62	VAL	6.2
39	BS	35	ILE	6.2
46	DZ	120	ILE	6.2
13	CK	125	PHE	6.2
28	DE	204	ALA	6.2
22	CT	17	ARG	6.2
25	DA	1079	C	6.1
49	D2	14	ARG	6.1
55	B8	64	TYR	6.1
34	DN	124	HIS	6.1
32	BI	125	GLU	6.1
16	AN	34	TYR	6.1
5	CC	179	ARG	6.1
24	AX	100	ASP	6.1
31	BH	94	TYR	6.1
38	BR	8	ARG	6.1
26	DB	52	A	6.1
34	BN	34	PRO	6.1
29	DF	97	TYR	6.1
37	BQ	91	GLU	6.1

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Mol	Chain	Res	Type	RSRZ
23	AU	8	THR	6.1
25	BA	2140	C	6.1
53	B6	12	GLU	6.1
23	AU	9	ARG	6.1
25	BA	2336	A	6.1
55	D8	54	GLU	6.1
18	AP	22	THR	6.1
25	DA	2145	C	6.0
31	DH	90	LYS	6.0
39	BS	28	VAL	6.0
11	AI	62	TYR	6.0
34	BN	69	VAL	6.0
45	BY	41	GLY	6.0
45	BY	35	TYR	6.0
33	BJ	56	ASN	6.0
25	DA	2897	U	6.0
39	BS	94	TYR	6.0
37	BQ	135	ASP	6.0
33	BJ	65	GLU	6.0
34	BN	75	VAL	6.0
32	BI	4	ILE	6.0
47	D0	41	ARG	6.0
15	AM	60	VAL	6.0
10	CH	131	GLY	6.0
31	BH	112	PRO	6.0
55	D8	13	ARG	6.0
15	AM	7	VAL	6.0
11	AI	68	GLY	6.0
12	AJ	10	GLY	6.0
12	CJ	35	SER	6.0
19	AQ	3	LYS	6.0
45	BY	4	LYS	6.0
24	CX	39	ALA	6.0
28	BE	194	GLY	6.0
22	AT	25	ARG	6.0
34	BN	71	MET	6.0
55	B8	9	GLY	6.0
22	CT	21	LYS	6.0
31	BH	88	LEU	6.0
25	DA	2160	G	6.0
32	BI	117	GLU	5.9
34	BN	72	GLY	5.9

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Mol	Chain	Res	Type	RSRZ
4	CB	43	ASP	5.9
18	CP	37	GLY	5.9
25	BA	1087	G	5.9
55	B8	54	GLU	5.9
38	BR	74	LYS	5.9
24	CX	17	ALA	5.9
25	BA	2109	U	5.9
40	DT	125	ARG	5.9
12	CJ	61	GLU	5.9
1	AA	86	U	5.9
39	DS	19	LYS	5.9
1	CA	87	A	5.9
25	DA	2159	G	5.9
46	DZ	70	LEU	5.9
53	D6	31	PRO	5.9
25	BA	2145	C	5.9
38	DR	84	ALA	5.9
25	BA	229	A	5.9
4	AB	136	VAL	5.9
42	DV	84	LYS	5.9
19	CQ	37	LYS	5.9
49	D2	16	LEU	5.9
3	CV	12	A	5.9
25	DA	1535	U	5.9
15	CM	65	LYS	5.9
32	BI	112	LYS	5.9
5	AC	156	ARG	5.9
46	DZ	81	ARG	5.9
23	AU	5	ASP	5.8
47	B0	74	ARG	5.8
22	CT	14	LYS	5.8
31	BH	18	GLU	5.8
45	DY	15	VAL	5.8
48	B1	27	GLU	5.8
11	CI	17	VAL	5.8
24	CX	96	LEU	5.8
11	CI	14	VAL	5.8
16	CN	26	ARG	5.8
39	BS	37	ALA	5.8
9	CG	81	GLY	5.8
11	AI	107	ARG	5.8
24	AX	60	GLN	5.8

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Mol	Chain	Res	Type	RSRZ
16	AN	10	ALA	5.8
11	CI	102	LEU	5.8
4	CB	122	PHE	5.8
11	CI	46	ALA	5.8
24	AX	21	ASP	5.8
45	BY	31	LEU	5.8
25	BA	2702	U	5.8
39	BS	32	LEU	5.8
10	AH	87	SER	5.8
37	DQ	130	LYS	5.8
39	DS	20	ARG	5.8
53	B6	50	ARG	5.8
51	B4	50	THR	5.7
32	BI	38	LEU	5.7
38	BR	69	ASP	5.7
13	CK	12	ARG	5.7
18	CP	22	THR	5.7
18	AP	17	TYR	5.7
41	DU	15	LYS	5.7
6	CD	17	VAL	5.7
33	DJ	61	LEU	5.7
45	BY	30	VAL	5.7
32	BI	94	ALA	5.7
36	BP	149	GLU	5.7
25	DA	2896	C	5.7
4	AB	146	GLN	5.7
11	AI	92	TYR	5.7
45	BY	32	PRO	5.7
9	AG	15	ASP	5.7
24	CX	225	SER	5.7
30	DG	31	VAL	5.7
11	CI	106	ALA	5.7
18	AP	59	TRP	5.7
45	BY	83	THR	5.7
12	AJ	72	VAL	5.7
30	BG	74	LYS	5.7
47	D0	56	ASP	5.7
53	B6	42	TRP	5.7
50	B3	55	ARG	5.7
34	BN	32	VAL	5.7
15	CM	97	PRO	5.7
51	B4	40	ILE	5.6

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Mol	Chain	Res	Type	RSRZ
46	DZ	87	ASP	5.6
32	BI	19	VAL	5.6
32	DI	118	LYS	5.6
11	AI	91	ASP	5.6
38	BR	71	GLN	5.6
44	BX	92	LEU	5.6
4	CB	166	ASP	5.6
30	DG	76	SER	5.6
39	BS	31	SER	5.6
49	D2	3	LEU	5.6
21	CS	75	ALA	5.6
38	BR	65	LEU	5.6
38	DR	54	LEU	5.6
53	B6	29	ASN	5.6
50	B3	29	ARG	5.6
21	AS	49	ILE	5.6
25	DA	2135	A	5.6
11	AI	4	TYR	5.6
46	BZ	79	ARG	5.6
4	CB	196	LEU	5.6
33	BJ	57	THR	5.5
39	BS	51	ALA	5.5
32	BI	20	ASP	5.5
11	AI	67	GLY	5.5
45	BY	58	GLY	5.5
53	B6	11	LEU	5.5
25	DA	1092	C	5.5
16	AN	2	ALA	5.5
25	DA	1088	A	5.5
31	BH	107	VAL	5.5
21	AS	50	ALA	5.5
24	AX	31	TYR	5.5
11	CI	105	ASP	5.5
11	AI	28	VAL	5.5
45	BY	34	LYS	5.5
21	AS	69	HIS	5.5
29	DF	192	LEU	5.5
30	DG	94	LEU	5.5
47	D0	40	GLN	5.5
1	CA	366	C	5.5
23	CU	21	TYR	5.5
38	DR	52	ILE	5.5

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Mol	Chain	Res	Type	RSRZ
6	AD	110	PHE	5.5
31	DH	156	ALA	5.5
10	AH	132	GLU	5.5
18	AP	2	VAL	5.5
47	D0	17	GLN	5.5
46	BZ	190	GLU	5.5
25	BA	1075	C	5.5
30	DG	33	ARG	5.5
20	AR	88	LYS	5.4
32	DI	85	GLU	5.4
39	BS	13	ARG	5.4
16	AN	16	PHE	5.4
37	DQ	42	ILE	5.4
15	AM	63	THR	5.4
36	DP	50	ARG	5.4
22	CT	25	ARG	5.4
31	BH	113	VAL	5.4
22	CT	60	GLU	5.4
1	CA	208	U	5.4
25	BA	2335	A	5.4
12	AJ	87	THR	5.4
31	BH	116	GLU	5.4
39	BS	102	ALA	5.4
16	CN	15	LYS	5.4
24	AX	63	SER	5.4
31	BH	25	LYS	5.4
5	AC	207	VAL	5.4
6	AD	17	VAL	5.4
6	CD	110	PHE	5.4
10	AH	93	VAL	5.4
34	DN	145	VAL	5.4
11	AI	42	ARG	5.4
4	AB	167	PRO	5.4
4	CB	73	THR	5.4
11	AI	45	ALA	5.4
19	CQ	36	ILE	5.4
53	B6	28	ARG	5.3
47	D0	71	ASP	5.3
47	B0	43	THR	5.3
28	BE	26	ILE	5.3
45	DY	38	ILE	5.3
28	BE	195	LEU	5.3

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Mol	Chain	Res	Type	RSRZ
34	DN	107	LYS	5.3
41	DU	17	ILE	5.3
36	BP	74	GLU	5.3
6	CD	68	TYR	5.3
53	D6	16	CYS	5.3
45	BY	39	VAL	5.3
46	BZ	7	ALA	5.3
47	D0	45	PHE	5.3
1	AA	92	G	5.3
1	CA	1368	G	5.3
15	AM	117	VAL	5.3
47	D0	77	ARG	5.3
1	AA	1286	A	5.3
53	B6	32	ASN	5.3
32	BI	118	LYS	5.3
1	CA	82	U	5.3
25	DA	1078	U	5.3
25	DA	1090	U	5.3
13	CK	126	ARG	5.3
21	AS	12	ASP	5.3
2	CZ	34	C	5.3
4	CB	29	ALA	5.3
27	BD	247	ALA	5.3
34	BN	33	GLU	5.3
11	CI	103	THR	5.3
32	DI	105	HIS	5.3
5	CC	166	GLU	5.3
11	AI	8	GLY	5.3
19	AQ	54	GLY	5.3
5	CC	152	ILE	5.3
18	AP	52	ASP	5.3
32	BI	122	GLU	5.3
45	BY	29	GLU	5.3
18	CP	3	LYS	5.3
21	CS	33	THR	5.3
46	BZ	164	ALA	5.3
32	DI	106	GLY	5.2
11	AI	114	TYR	5.2
19	CQ	2	PRO	5.2
32	DI	121	LYS	5.2
25	DA	2137	C	5.2
11	CI	121	ARG	5.2

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Mol	Chain	Res	Type	RSRZ
34	DN	75	VAL	5.2
4	CB	42	ILE	5.2
35	DO	111	PHE	5.2
25	DA	2181	G	5.2
53	B6	19	ARG	5.2
50	D3	57	GLU	5.2
24	CX	22	PRO	5.2
31	BH	96	ALA	5.2
11	AI	111	ARG	5.2
19	CQ	26	GLN	5.2
28	BE	76	ARG	5.2
13	AK	125	PHE	5.2
47	D0	53	MET	5.2
21	CS	40	ILE	5.2
33	BJ	7	VAL	5.2
30	DG	133	LEU	5.2
25	BA	2211	G	5.2
25	BA	2318	G	5.2
32	DI	140	LEU	5.2
24	CX	67	ASP	5.2
11	CI	29	ASN	5.2
15	CM	64	TRP	5.2
25	DA	615	G	5.2
31	BH	87	LEU	5.2
31	BH	131	VAL	5.2
31	BH	108	GLY	5.1
34	BN	74	PHE	5.1
6	AD	65	ARG	5.1
23	AU	23	PRO	5.1
38	BR	70	LEU	5.1
33	BJ	4	LYS	5.1
31	BH	95	ARG	5.1
10	AH	35	ILE	5.1
31	BH	106	THR	5.1
24	AX	148	HIS	5.1
45	DY	17	SER	5.1
32	DI	107	ILE	5.1
31	BH	55	PRO	5.1
49	D2	70	GLN	5.1
47	D0	74	ARG	5.1
25	DA	1574	C	5.1
41	DU	16	LYS	5.1

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Mol	Chain	Res	Type	RSRZ
4	AB	152	PHE	5.1
30	DG	137	GLU	5.1
32	BI	115	ALA	5.1
45	BY	38	ILE	5.1
18	CP	41	PRO	5.1
23	CU	3	LYS	5.1
33	DJ	16	ASN	5.1
28	BE	31	CYS	5.1
50	B3	57	GLU	5.1
11	CI	45	ALA	5.1
11	CI	73	GLN	5.1
27	BD	34	VAL	5.1
53	B6	47	THR	5.1
1	CA	136(A)	C	5.1
30	DG	27	ASN	5.1
40	BT	11	GLU	5.1
12	CJ	93	GLY	5.1
45	DY	89	PHE	5.1
10	AH	53	VAL	5.1
45	DY	83	THR	5.0
7	AE	28	PHE	5.0
29	DF	27	GLU	5.0
52	B5	48	GLU	5.0
25	BA	1026	U	5.0
11	CI	123	PRO	5.0
15	CM	4	ILE	5.0
42	DV	2	PHE	5.0
46	BZ	153	SER	5.0
16	AN	20	ALA	5.0
45	DY	68	HIS	5.0
47	B0	44	ARG	5.0
28	BE	96	PHE	5.0
18	AP	3	LYS	5.0
32	BI	37	VAL	5.0
1	CA	1353	G	5.0
11	AI	106	ALA	5.0
11	AI	33	PHE	5.0
22	AT	64	ASP	5.0
24	CX	4	LYS	5.0
45	BY	47	LYS	5.0
46	BZ	165	VAL	5.0
36	BP	71	VAL	5.0

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Mol	Chain	Res	Type	RSRZ
1	CA	379	C	5.0
22	CT	66	ALA	5.0
25	BA	2896	C	5.0
32	BI	17	GLN	5.0
11	CI	101	PHE	5.0
4	CB	101	MET	5.0
31	BH	99	VAL	5.0
32	BI	97	ILE	5.0
45	BY	91	GLU	5.0
28	BE	186	GLY	5.0
36	BP	15	ARG	5.0
13	CK	122	LYS	5.0
22	AT	30	LYS	5.0
38	DR	9	LYS	5.0
39	BS	59	LYS	5.0
1	CA	134	A	5.0
55	D8	44	LYS	5.0
28	DE	14	ILE	5.0
30	DG	164	GLU	5.0
36	BP	65	ARG	5.0
1	AA	1000	A	5.0
16	CN	11	LYS	5.0
19	CQ	9	VAL	5.0
6	CD	181	MET	5.0
11	CI	97	LYS	5.0
12	CJ	71	LEU	5.0
9	AG	37	ASN	4.9
39	DS	89	ARG	4.9
53	B6	24	GLU	4.9
11	AI	101	PHE	4.9
13	CK	81	ASP	4.9
25	BA	2178	C	4.9
46	DZ	76	LEU	4.9
11	CI	81	ILE	4.9
25	DA	1045	A	4.9
32	BI	126	TYR	4.9
11	CI	109	VAL	4.9
29	DF	173	VAL	4.9
11	AI	121	ARG	4.9
37	DQ	37	LEU	4.9
43	DW	112	GLY	4.9
25	DA	2175	C	4.9

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Mol	Chain	Res	Type	RSRZ
18	AP	19	ILE	4.9
24	CX	152	LEU	4.9
30	BG	94	LEU	4.9
24	CX	6	ASP	4.9
46	BZ	169	GLU	4.9
18	CP	73	LEU	4.9
22	AT	29	LYS	4.9
32	DI	87	LYS	4.9
32	DI	119	PRO	4.9
36	BP	68	GLN	4.9
53	D6	42	TRP	4.9
39	BS	30	ARG	4.9
29	DF	172	TRP	4.9
18	AP	29	ASP	4.9
21	CS	36	ARG	4.9
38	DR	68	ARG	4.9
45	BY	46	LYS	4.9
46	DZ	74	VAL	4.9
6	AD	70	ILE	4.9
23	AU	12	LYS	4.9
1	AA	728	A	4.9
31	BH	129	THR	4.9
37	BQ	31	ASP	4.9
28	BE	161	GLY	4.9
38	DR	94	TYR	4.9
39	BS	93	LYS	4.9
4	CB	167	PRO	4.9
12	CJ	6	ILE	4.9
39	DS	92	TYR	4.9
1	CA	108	G	4.9
22	AT	72	LEU	4.9
22	CT	20	LEU	4.9
22	CT	72	LEU	4.9
47	D0	85	ALA	4.9
15	CM	21	TYR	4.8
28	BE	53	PRO	4.8
22	CT	59	ALA	4.8
55	D8	57	ARG	4.8
34	DN	95	TYR	4.8
24	CX	5	LEU	4.8
21	AS	9	VAL	4.8
30	DG	134	GLY	4.8

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Mol	Chain	Res	Type	RSRZ
30	DG	79	ASN	4.8
18	AP	4	ILE	4.8
42	DV	73	SER	4.8
24	CX	64	LEU	4.8
32	BI	5	LEU	4.8
30	BG	127	GLY	4.8
10	CH	3	THR	4.8
32	BI	76	THR	4.8
46	BZ	53	ILE	4.8
5	CC	156	ARG	4.8
24	CX	212	LEU	4.8
36	DP	70	GLN	4.8
30	DG	87	PRO	4.8
46	BZ	128	VAL	4.8
4	AB	133	LYS	4.8
6	AD	75	PHE	4.8
20	AR	61	LYS	4.8
23	AU	3	LYS	4.8
18	CP	21	VAL	4.8
8	CF	92	LYS	4.8
16	CN	9	LYS	4.8
49	B2	24	LEU	4.8
4	AB	165	VAL	4.8
47	B0	56	ASP	4.8
18	CP	63	GLY	4.8
22	CT	16	HIS	4.8
32	DI	133	HIS	4.8
34	BN	37	VAL	4.8
23	AU	24	ARG	4.8
24	AX	68	PRO	4.8
34	BN	70	ALA	4.8
1	AA	87	A	4.8
10	AH	133	LEU	4.8
4	CB	33	TYR	4.8
25	BA	1082	U	4.8
4	AB	149	LEU	4.8
22	AT	21	LYS	4.8
30	DG	66	GLN	4.8
35	DO	97	ARG	4.8
24	AX	98	PRO	4.8
53	B6	41	PRO	4.8
42	BV	84	LYS	4.8

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Mol	Chain	Res	Type	RSRZ
25	BA	1642	G	4.8
32	BI	93	THR	4.8
36	DP	7	ARG	4.8
39	BS	97	ARG	4.8
25	DA	2140	C	4.7
22	CT	62	LEU	4.7
33	BJ	6	ASN	4.7
46	BZ	82	ARG	4.7
19	AQ	26	GLN	4.7
15	AM	94	ARG	4.7
51	D4	57	ILE	4.7
25	BA	1078	U	4.7
44	BX	60	ARG	4.7
55	B8	10	ALA	4.7
11	AI	118	LYS	4.7
23	AU	20	LYS	4.7
25	BA	2122	U	4.7
48	B1	19	GLN	4.7
25	BA	10	G	4.7
25	BA	2123	G	4.7
38	BR	61	HIS	4.7
5	CC	201	TYR	4.7
24	AX	101	PRO	4.7
11	CI	126	SER	4.7
25	DA	2177	C	4.7
16	CN	25	VAL	4.7
28	DE	160	TYR	4.7
15	AM	30	ALA	4.7
40	BT	1	MET	4.7
47	B0	57	PHE	4.7
32	BI	101	LEU	4.7
29	DF	35	GLU	4.7
39	DS	52	SER	4.7
49	D2	66	GLU	4.7
9	CG	79	ARG	4.7
23	CU	6	ARG	4.7
41	BU	109	LEU	4.7
30	BG	35	GLU	4.7
32	BI	91	SER	4.7
36	DP	66	GLY	4.7
25	BA	2125	G	4.7
20	AR	32	ARG	4.7

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Mol	Chain	Res	Type	RSRZ
48	D1	19	GLN	4.7
30	DG	161	THR	4.7
31	DH	113	VAL	4.7
25	DA	2144	U	4.7
25	DA	2168	G	4.7
2	AZ	34	C	4.7
45	DY	88	LYS	4.7
12	AJ	56	HIS	4.7
22	CT	22	ARG	4.7
32	BI	7	GLU	4.7
36	DP	51	PHE	4.6
25	BA	1102	C	4.6
53	B6	30	THR	4.6
25	DA	2167	U	4.6
11	CI	128	ARG	4.6
1	AA	1045	C	4.6
1	CA	136	C	4.6
27	DD	92	ILE	4.6
10	CH	52	ASP	4.6
28	DE	75	VAL	4.6
34	BN	31	GLN	4.6
14	CL	27	LYS	4.6
45	BY	8	LYS	4.6
1	CA	1352	C	4.6
33	DJ	19	ARG	4.6
38	BR	64	ARG	4.6
51	B4	61	VAL	4.6
25	DA	1537	C	4.6
41	DU	13	LYS	4.6
15	CM	8	GLU	4.6
32	BI	120	ILE	4.6
1	CA	1002	G	4.6
32	BI	77	LEU	4.6
39	DS	75	GLU	4.6
11	AI	81	ILE	4.6
16	AN	11	LYS	4.6
1	CA	1000	A	4.6
33	BJ	60	ARG	4.6
38	DR	69	ASP	4.6
47	D0	39	ARG	4.6
5	CC	167	TRP	4.6
31	BH	169	VAL	4.6

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Mol	Chain	Res	Type	RSRZ
21	AS	66	MET	4.6
49	D2	10	LEU	4.6
12	CJ	64	GLU	4.6
30	BG	93	THR	4.6
18	AP	25	ARG	4.6
15	CM	47	ASP	4.6
36	BP	107	LYS	4.6
17	AO	59	MET	4.6
40	DT	114	LEU	4.6
22	CT	70	SER	4.6
25	DA	276	A	4.6
33	DJ	17	LEU	4.6
16	AN	8	GLU	4.6
48	B1	16	ASN	4.6
25	DA	2136	C	4.6
53	D6	23	THR	4.6
55	B8	57	ARG	4.6
33	DJ	18	GLU	4.6
21	AS	79	THR	4.6
45	BY	45	VAL	4.6
37	DQ	111	GLU	4.5
11	CI	111	ARG	4.5
25	BA	1384	A	4.5
55	D8	14	VAL	4.5
24	CX	83	ALA	4.5
36	BP	101	VAL	4.5
11	AI	47	LEU	4.5
15	AM	42	ALA	4.5
25	BA	1572	A	4.5
15	AM	99	ARG	4.5
39	BS	33	LYS	4.5
38	BR	66	VAL	4.5
4	AB	9	GLU	4.5
24	CX	93	GLU	4.5
31	BH	67	LEU	4.5
48	D1	27	GLU	4.5
51	D4	55	PRO	4.5
46	BZ	23	LYS	4.5
55	B8	22	VAL	4.5
24	AX	154	GLY	4.5
37	BQ	139	GLU	4.5
22	AT	22	ARG	4.5

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Mol	Chain	Res	Type	RSRZ
21	AS	40	ILE	4.5
22	AT	27	LYS	4.5
44	DX	8	ILE	4.5
30	BG	141	PHE	4.5
10	AH	131	GLY	4.5
31	BH	86	GLU	4.5
16	AN	31	ARG	4.5
23	AU	6	ARG	4.5
50	D3	1	MET	4.5
23	AU	21	TYR	4.5
1	CA	325	A	4.5
16	CN	37	PHE	4.5
4	CB	165	VAL	4.5
4	AB	138	LEU	4.5
39	DS	43	GLU	4.5
55	D8	50	LEU	4.5
17	CO	51	HIS	4.5
18	CP	27	LYS	4.5
27	DD	5	LYS	4.5
27	DD	34	VAL	4.5
38	DR	64	ARG	4.5
4	AB	150	SER	4.5
41	DU	91	ASP	4.5
55	B8	20	GLY	4.5
55	D8	34	TRP	4.5
1	CA	1186	G	4.5
11	CI	116	LYS	4.5
22	AT	81	LYS	4.5
32	BI	11	ASN	4.5
38	BR	63	ARG	4.5
6	CD	69	GLY	4.5
1	AA	1357	A	4.5
44	DX	76	ARG	4.5
53	B6	18	ARG	4.5
45	DY	72	VAL	4.5
51	D4	49	GLU	4.5
30	BG	95	ARG	4.5
1	AA	982	U	4.4
30	DG	13	GLU	4.4
49	B2	9	GLN	4.4
45	BY	33	LYS	4.4
29	DF	152	GLU	4.4

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Mol	Chain	Res	Type	RSRZ
30	DG	70	VAL	4.4
42	BV	72	VAL	4.4
15	AM	104	ARG	4.4
41	BU	22	LYS	4.4
32	BI	83	ALA	4.4
39	BS	53	SER	4.4
47	B0	10	THR	4.4
4	AB	137	ARG	4.4
25	BA	615	G	4.4
9	AG	44	TYR	4.4
19	CQ	22	LEU	4.4
4	CB	170	GLU	4.4
6	CD	18	LYS	4.4
11	AI	75	ASP	4.4
30	BG	97	ASP	4.4
32	BI	18	VAL	4.4
34	BN	135	LEU	4.4
37	BQ	115	MET	4.4
42	BV	68	LYS	4.4
18	AP	7	ALA	4.4
11	AI	108	VAL	4.4
42	BV	24	LYS	4.4
53	B6	45	LYS	4.4
25	BA	1085	A	4.4
1	CA	378	G	4.4
34	BN	140	PHE	4.4
42	BV	70	ILE	4.4
17	AO	57	LEU	4.4
46	BZ	97	GLU	4.4
19	CQ	4	LYS	4.4
21	CS	4	SER	4.4
18	CP	5	ARG	4.4
28	BE	197	ILE	4.4
31	BH	97	ARG	4.4
38	BR	44	LEU	4.4
44	DX	83	VAL	4.4
46	BZ	163	LEU	4.4
1	AA	1224	G	4.4
25	DA	1091	G	4.4
1	CA	1260	C	4.4
37	DQ	92	GLY	4.4
55	B8	8	LYS	4.4

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Mol	Chain	Res	Type	RSRZ
4	AB	181	PHE	4.4
25	DA	1117	G	4.4
22	AT	36	LEU	4.4
4	CB	197	VAL	4.4
18	CP	20	VAL	4.4
32	DI	108	THR	4.4
37	BQ	133	ARG	4.4
15	AM	96	LEU	4.4
37	BQ	68	ILE	4.4
41	DU	80	ILE	4.4
18	CP	64	ALA	4.3
19	CQ	35	VAL	4.3
22	AT	66	ALA	4.3
17	CO	59	MET	4.3
49	D2	12	GLU	4.3
18	CP	59	TRP	4.3
22	AT	76	ALA	4.3
14	CL	28	GLY	4.3
28	DE	10	GLY	4.3
18	AP	33	ILE	4.3
23	CU	12	LYS	4.3
32	BI	2	LYS	4.3
35	DO	65	THR	4.3
39	DS	93	LYS	4.3
5	CC	134	ILE	4.3
38	DR	83	ILE	4.3
18	AP	21	VAL	4.3
4	AB	12	GLU	4.3
36	BP	51	PHE	4.3
24	CX	48	ILE	4.3
19	AQ	9	VAL	4.3
19	AQ	11	VAL	4.3
24	CX	158	VAL	4.3
53	D6	47	THR	4.3
2	AZ	37	A	4.3
24	AX	74	ALA	4.3
18	AP	32	TYR	4.3
44	BX	26	TYR	4.3
15	CM	67	GLU	4.3
32	BI	12	LEU	4.3
1	CA	1452	C	4.3
55	B8	15	LYS	4.3

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Mol	Chain	Res	Type	RSRZ
40	DT	11	GLU	4.3
47	B0	55	ARG	4.3
11	CI	85	LEU	4.3
39	BS	49	VAL	4.3
46	DZ	71	VAL	4.3
22	AT	103	GLY	4.3
36	BP	128	HIS	4.3
6	CD	65	ARG	4.3
29	DF	139	PHE	4.3
53	B6	35	GLU	4.3
21	CS	5	LEU	4.3
30	BG	139	LEU	4.3
31	BH	132	ARG	4.3
44	BX	31	HIS	4.3
25	BA	1081	U	4.3
38	DR	70	LEU	4.3
45	DY	67	LEU	4.3
1	CA	390	C	4.3
24	CX	32	GLN	4.3
25	BA	359	A	4.3
4	CB	138	LEU	4.3
53	B6	48	VAL	4.3
1	AA	1002	G	4.3
6	AD	135	LEU	4.3
36	DP	64	LYS	4.3
25	DA	1536	A	4.3
25	BA	2102	U	4.3
11	CI	122	ALA	4.3
47	B0	46	LYS	4.3
4	AB	196	LEU	4.3
17	CO	39	LEU	4.3
9	CG	5	ARG	4.2
16	CN	56	VAL	4.2
21	AS	11	VAL	4.2
29	DF	6	MET	4.2
31	BH	68	THR	4.2
53	D6	30	THR	4.2
37	BQ	24	GLY	4.2
15	AM	61	GLU	4.2
24	AX	22	PRO	4.2
50	D3	8	LEU	4.2
46	BZ	99	TYR	4.2

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Mol	Chain	Res	Type	RSRZ
1	AA	1348	U	4.2
33	BJ	63	LEU	4.2
38	DR	3	HIS	4.2
34	DN	93	LYS	4.2
17	AO	63	ARG	4.2
48	B1	20	ARG	4.2
24	AX	27	ASP	4.2
23	AU	11	GLY	4.2
25	DA	2180	U	4.2
22	CT	8	ARG	4.2
24	AX	218	ARG	4.2
19	CQ	21	VAL	4.2
32	BI	89	TYR	4.2
45	BY	72	VAL	4.2
50	D3	54	VAL	4.2
17	CO	63	ARG	4.2
18	CP	31	LYS	4.2
4	CB	214	ILE	4.2
12	CJ	33	GLN	4.2
25	BA	2110	G	4.2
25	BA	2115	G	4.2
31	BH	111	HIS	4.2
49	D2	67	LYS	4.2
45	BY	69	ALA	4.2
11	CI	44	VAL	4.2
24	AX	195	SER	4.2
24	AX	30	ARG	4.2
36	BP	111	ARG	4.2
50	B3	33	GLN	4.2
15	AM	6	GLY	4.2
23	CU	11	GLY	4.2
34	DN	113	MET	4.2
40	DT	98	LYS	4.2
50	B3	28	LEU	4.2
32	BI	3	VAL	4.2
44	DX	7	VAL	4.2
25	BA	2180	U	4.2
3	CV	14	A	4.2
10	AH	85	ARG	4.2
15	AM	97	PRO	4.2
30	DG	160	VAL	4.2
36	BP	150	ALA	4.2

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Mol	Chain	Res	Type	RSRZ
37	BQ	14	ARG	4.2
7	AE	88	LYS	4.2
21	CS	49	ILE	4.2
28	BE	50	GLY	4.2
7	AE	43	LEU	4.2
30	DG	3	LEU	4.2
32	BI	123	LEU	4.2
28	DE	83	ASP	4.2
25	DA	2321	G	4.1
55	D8	24	ALA	4.1
18	CP	54	GLU	4.1
15	CM	66	LEU	4.1
55	D8	6	THR	4.1
4	AB	40	HIS	4.1
32	BI	8	PRO	4.1
37	DQ	63	LYS	4.1
32	BI	142	VAL	4.1
46	BZ	8	TYR	4.1
55	B8	12	LYS	4.1
18	CP	15	PRO	4.1
25	BA	101	G	4.1
25	BA	2124	G	4.1
11	CI	84	ALA	4.1
10	AH	25	ASP	4.1
33	BJ	18	GLU	4.1
15	CM	60	VAL	4.1
11	AI	13	ALA	4.1
11	CI	31	GLN	4.1
6	CD	148	VAL	4.1
15	AM	118	ALA	4.1
36	BP	79	ARG	4.1
55	B8	35	GLN	4.1
13	CK	114	VAL	4.1
25	BA	2159	G	4.1
28	DE	25	VAL	4.1
4	CB	59	GLU	4.1
40	BT	2	ASN	4.1
45	DY	82	PRO	4.1
32	DI	12	LEU	4.1
55	D8	20	GLY	4.1
31	DH	42	ARG	4.1
31	BH	121	ILE	4.1

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Mol	Chain	Res	Type	RSRZ
41	DU	106	PHE	4.1
25	BA	1641	A	4.1
37	DQ	34	LEU	4.1
5	CC	170	GLN	4.1
9	AG	36	LYS	4.1
15	CM	102	ARG	4.1
24	AX	23	GLU	4.1
27	DD	226	MET	4.1
50	B3	34	GLU	4.1
22	AT	78	ALA	4.1
11	AI	115	GLY	4.1
22	CT	84	LEU	4.1
16	AN	52	GLN	4.1
22	CT	73	HIS	4.1
37	DQ	41	TRP	4.1
47	B0	21	LEU	4.1
5	CC	17	ASP	4.1
37	DQ	83	MET	4.1
26	BB	53	A	4.1
9	AG	41	ARG	4.1
34	BN	122	LEU	4.1
50	B3	30	ARG	4.1
37	DQ	113	GLN	4.0
45	DY	5	MET	4.0
16	CN	6	LEU	4.0
30	DG	69	ALA	4.0
1	CA	1286	A	4.0
10	AH	3	THR	4.0
30	BG	37	VAL	4.0
32	BI	81	VAL	4.0
29	DF	45	ARG	4.0
19	AQ	58	GLU	4.0
11	AI	9	ARG	4.0
12	CJ	75	ILE	4.0
25	BA	1073	A	4.0
32	DI	145	VAL	4.0
21	CS	56	GLN	4.0
25	BA	2164	C	4.0
25	DA	2188	C	4.0
26	BB	52	A	4.0
40	DT	104	ASN	4.0
4	AB	237	ALA	4.0

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Mol	Chain	Res	Type	RSRZ
24	AX	34	LEU	4.0
4	AB	116	GLU	4.0
11	AI	90	PRO	4.0
11	CI	110	GLU	4.0
37	BQ	105	GLU	4.0
42	DV	15	GLU	4.0
45	BY	27	VAL	4.0
47	D0	19	LYS	4.0
5	CC	8	ILE	4.0
25	DA	2139	C	4.0
25	DA	1083	U	4.0
8	CF	95	GLU	4.0
28	BE	59	VAL	4.0
33	BJ	15	GLU	4.0
39	DS	15	ARG	4.0
42	DV	98	GLU	4.0
1	CA	61	G	4.0
28	DE	45	THR	4.0
16	CN	39	LEU	4.0
46	BZ	188	ALA	4.0
45	BY	54	LYS	4.0
21	CS	9	VAL	4.0
25	DA	2129	C	4.0
25	DA	2798	C	4.0
31	BH	52	VAL	4.0
11	AI	19	LEU	4.0
31	BH	78	GLY	4.0
32	BI	114	LEU	4.0
35	BO	27	GLY	4.0
50	B3	32	GLN	4.0
25	BA	2160	G	4.0
28	BE	159	HIS	4.0
53	B6	46	HIS	4.0
26	DB	41	U	4.0
11	CI	55	ALA	4.0
27	BD	168	ARG	4.0
38	DR	53	HIS	4.0
52	B5	2	ALA	4.0
49	D2	71	ASN	4.0
1	AA	1356	G	4.0
1	CA	1348	U	4.0
5	CC	131	ARG	4.0

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Mol	Chain	Res	Type	RSRZ
34	DN	56	LEU	4.0
24	CX	267	MET	4.0
15	CM	35	GLU	4.0
19	AQ	10	VAL	4.0
6	CD	146	ILE	4.0
24	AX	25	LEU	4.0
24	CX	151	ASP	4.0
34	DN	108	ILE	4.0
10	CH	93	VAL	4.0
50	B3	54	VAL	4.0
18	CP	33	ILE	4.0
33	BJ	61	LEU	4.0
50	B3	8	LEU	4.0
35	DO	7	TYR	4.0
10	AH	89	PRO	4.0
37	DQ	27	VAL	4.0
55	D8	22	VAL	4.0
39	DS	30	ARG	4.0
25	DA	34	C	4.0
1	CA	1360	A	4.0
24	CX	79	GLU	4.0
36	DP	81	GLN	4.0
41	DU	21	ALA	3.9
47	B0	70	GLN	4.0
21	AS	35	SER	3.9
32	BI	145	VAL	3.9
24	CX	186	THR	3.9
35	DO	8	LEU	3.9
31	DH	159	GLU	3.9
50	B3	10	LYS	3.9
4	AB	101	MET	3.9
6	CD	4	TYR	3.9
10	AH	54	ASP	3.9
21	AS	36	ARG	3.9
4	AB	122	PHE	3.9
28	DE	7	VAL	3.9
45	DY	99	CYS	3.9
22	CT	23	ARG	3.9
24	CX	311	ARG	3.9
34	BN	137	ARG	3.9
19	CQ	27	PHE	3.9
28	BE	77	ILE	3.9

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Mol	Chain	Res	Type	RSRZ
36	BP	147	LEU	3.9
31	BH	130	ARG	3.9
50	D3	34	GLU	3.9
21	CS	41	VAL	3.9
37	BQ	106	VAL	3.9
39	BS	38	GLN	3.9
8	AF	98	LEU	3.9
55	B8	16	ILE	3.9
14	AL	126	GLU	3.9
28	DE	159	HIS	3.9
24	AX	51	TYR	3.9
1	CA	1280	A	3.9
5	CC	150	LYS	3.9
12	CJ	18	ALA	3.9
32	BI	127	VAL	3.9
7	CE	118	ILE	3.9
54	B7	47	ARG	3.9
15	CM	30	ALA	3.9
30	DG	95	ARG	3.9
32	BI	9	LEU	3.9
53	B6	9	LEU	3.9
25	DA	6	A	3.9
55	B8	11	LYS	3.9
18	CP	32	TYR	3.9
28	BE	67	PHE	3.9
55	B8	14	VAL	3.9
7	CE	24	ARG	3.9
32	DI	116	LEU	3.9
34	BN	130	LEU	3.9
1	CA	1367	C	3.9
25	BA	1079	C	3.9
10	AH	90	GLY	3.9
24	AX	296	GLY	3.9
39	BS	57	LYS	3.9
1	CA	60	A	3.9
15	CM	57	ARG	3.9
7	CE	132	ALA	3.9
37	DQ	64	ILE	3.9
32	DI	95	LYS	3.9
55	D8	47	LYS	3.9
11	AI	21	PRO	3.9
1	CA	1358	U	3.9

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Mol	Chain	Res	Type	RSRZ
45	BY	49	VAL	3.9
1	CA	958	A	3.9
5	CC	204	LEU	3.9
33	DJ	9	LEU	3.9
33	DJ	20	ALA	3.9
45	BY	44	ILE	3.9
10	AH	18	ARG	3.9
25	DA	226	G	3.9
40	DT	111	ARG	3.9
31	BH	24	VAL	3.9
37	BQ	104	PHE	3.9
44	BX	75	ASP	3.9
50	B3	9	VAL	3.9
22	CT	67	ALA	3.9
25	BA	34	C	3.9
32	DI	77	LEU	3.9
45	BY	21	LYS	3.9
15	CM	48	LEU	3.8
1	AA	1024	G	3.8
9	AG	40	ALA	3.8
10	CH	2	LEU	3.8
32	BI	140	LEU	3.8
41	DU	98	LEU	3.8
25	BA	2120	G	3.8
16	CN	35	ARG	3.8
12	AJ	48	THR	3.8
30	BG	75	LYS	3.8
42	DV	14	VAL	3.8
32	DI	97	ILE	3.8
12	AJ	5	ARG	3.8
8	AF	6	VAL	3.8
10	AH	135	CYS	3.8
15	AM	111	LYS	3.8
17	AO	60	VAL	3.8
41	DU	20	LEU	3.8
10	AH	94	TYR	3.8
4	CB	134	GLU	3.8
24	AX	62	GLU	3.8
39	DS	102	ALA	3.8
25	BA	1885	A	3.8
37	BQ	109	VAL	3.8
29	BF	123	LEU	3.8

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Mol	Chain	Res	Type	RSRZ
6	CD	24	GLU	3.8
14	CL	55	ALA	3.8
37	DQ	103	MET	3.8
53	D6	27	LYS	3.8
8	AF	97	PHE	3.8
44	BX	43	VAL	3.8
34	DN	143	LEU	3.8
21	CS	76	PRO	3.8
24	CX	126	ASP	3.8
25	BA	2139	C	3.8
35	DO	67	LYS	3.8
45	DY	66	PRO	3.8
24	AX	32	GLN	3.8
21	CS	67	VAL	3.8
37	DQ	35	VAL	3.8
50	D3	30	ARG	3.8
6	AD	15	GLU	3.8
18	CP	34	GLU	3.8
25	BA	1103	A	3.8
7	CE	10	MET	3.8
11	AI	46	ALA	3.8
27	BD	181	GLU	3.8
51	B4	51	TYR	3.8
4	AB	193	ASP	3.8
11	CI	124	GLN	3.8
15	AM	92	HIS	3.8
43	BW	67	ASP	3.8
1	AA	91	C	3.8
1	CA	103	C	3.8
1	CA	1030	C	3.8
5	CC	154	SER	3.8
38	BR	62	ALA	3.8
46	BZ	166	SER	3.8
18	AP	18	ARG	3.8
6	CD	8	VAL	3.8
11	CI	37	PHE	3.8
12	CJ	51	ARG	3.8
15	CM	7	VAL	3.8
35	DO	5	GLN	3.8
37	BQ	41	TRP	3.8
28	DE	8	LYS	3.8
4	CB	211	ILE	3.8

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Mol	Chain	Res	Type	RSRZ
7	CE	108	ALA	3.8
25	BA	1045	A	3.8
25	BA	2114	A	3.8
36	BP	64	LYS	3.8
30	DG	11	TYR	3.8
35	DO	27	GLY	3.8
12	AJ	65	LEU	3.8
34	DN	109	PRO	3.8
46	DZ	163	LEU	3.8
25	DA	245	G	3.8
32	BI	79	ILE	3.8
24	CX	224	ALA	3.8
27	DD	35	LYS	3.8
35	DO	20	MET	3.8
53	D6	32	ASN	3.8
22	CT	29	LYS	3.8
30	DG	28	VAL	3.8
12	AJ	45	ARG	3.8
12	AJ	62	HIS	3.8
49	D2	72	ALA	3.8
45	BY	92	ASN	3.7
28	BE	52	LEU	3.7
39	BS	17	ARG	3.7
25	DA	2143	C	3.7
45	BY	28	LYS	3.7
36	DP	69	GLY	3.7
28	BE	181	LEU	3.7
50	B3	35	ARG	3.7
22	CT	87	LYS	3.7
11	AI	76	ALA	3.7
19	CQ	71	PHE	3.7
25	BA	2701	C	3.7
37	DQ	36	ALA	3.7
11	CI	120	ARG	3.7
21	AS	51	VAL	3.7
24	CX	51	TYR	3.7
38	BR	80	PHE	3.7
25	BA	2113	U	3.7
16	CN	36	PHE	3.7
32	DI	82	ARG	3.7
38	DR	2	ARG	3.7
46	BZ	20	ARG	3.7

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Mol	Chain	Res	Type	RSRZ
51	B4	48	ILE	3.7
12	AJ	46	ARG	3.7
54	D7	47	ARG	3.7
10	CH	54	ASP	3.7
11	CI	5	TYR	3.7
40	BT	6	LEU	3.7
46	BZ	46	LYS	3.7
31	DH	89	ILE	3.7
16	CN	30	ALA	3.7
18	AP	9	PHE	3.7
37	BQ	83	MET	3.7
55	D8	49	VAL	3.7
47	B0	36	ILE	3.7
22	AT	74	LYS	3.7
28	BE	57	LYS	3.7
28	BE	155	LYS	3.7
7	AE	19	MET	3.7
18	AP	16	HIS	3.7
20	AR	60	ALA	3.7
7	AE	83	GLU	3.7
7	CE	51	VAL	3.7
38	DR	65	LEU	3.7
5	CC	11	ARG	3.7
45	BY	61	ILE	3.7
31	BH	122	THR	3.7
28	BE	170	LEU	3.7
32	BI	47	LEU	3.7
40	DT	134	GLU	3.7
42	DV	93	GLU	3.7
34	DN	36	TRP	3.7
37	DQ	67	ARG	3.7
1	CA	104	G	3.7
25	DA	1093	G	3.7
37	BQ	107	ALA	3.7
55	D8	63	PRO	3.7
9	AG	5	ARG	3.7
22	AT	73	HIS	3.7
25	DA	2134	A	3.7
29	DF	44	ARG	3.7
32	DI	103	ARG	3.7
41	DU	14	HIS	3.7
11	CI	118	LYS	3.7

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Mol	Chain	Res	Type	RSRZ
13	AK	127	LYS	3.7
19	CQ	3	LYS	3.7
45	BY	87	LYS	3.7
2	AZ	16	C	3.7
30	DG	4	ASP	3.7
36	BP	47	ASP	3.7
44	BX	51	VAL	3.7
10	AH	92	ARG	3.7
41	BU	72	HIS	3.7
54	B7	48	LYS	3.7
18	AP	48	TRP	3.7
28	BE	4	ILE	3.7
27	DD	267	SER	3.7
1	AA	754	C	3.7
41	DU	104	GLN	3.7
4	CB	123	ALA	3.7
46	BZ	127	LYS	3.7
13	AK	27	ASN	3.7
28	BE	30	PRO	3.7
6	CD	67	ILE	3.7
19	AQ	59	ILE	3.7
25	BA	2155	G	3.7
5	AC	179	ARG	3.6
42	BV	71	LEU	3.6
47	D0	59	LEU	3.6
45	DY	29	GLU	3.6
1	CA	135	C	3.6
25	BA	2108	C	3.6
25	BA	2138	C	3.6
11	CI	114	TYR	3.6
21	AS	52	TYR	3.6
55	B8	25	MET	3.6
30	DG	88	ILE	3.6
15	CM	6	GLY	3.6
41	BU	32	PHE	3.6
17	AO	65	ARG	3.6
19	AQ	24	GLU	3.6
28	DE	195	LEU	3.6
48	B1	10	LYS	3.6
1	CA	1370	G	3.6
37	BQ	28	ALA	3.6
6	AD	63	LYS	3.6

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Mol	Chain	Res	Type	RSRZ
11	CI	6	GLY	3.6
20	CR	81	PHE	3.6
30	BG	102	PHE	3.6
17	AO	66	LEU	3.6
37	DQ	100	GLY	3.6
55	D8	21	LYS	3.6
34	BN	76	VAL	3.6
45	DY	30	VAL	3.6
25	BA	99	U	3.6
33	DJ	11	ALA	3.6
11	CI	83	ARG	3.6
28	DE	30	PRO	3.6
36	BP	108	LYS	3.6
9	AG	81	GLY	3.6
47	D0	43	THR	3.6
25	BA	1574	C	3.6
46	BZ	58	VAL	3.6
5	CC	164	ARG	3.6
22	AT	80	ARG	3.6
4	AB	142	LEU	3.6
24	AX	153	GLY	3.6
32	BI	108	THR	3.6
25	BA	275	G	3.6
46	DZ	166	SER	3.6
51	D4	51	TYR	3.6
6	CD	12	CYS	3.6
51	B4	55	PRO	3.6
55	D8	31	HIS	3.6
27	DD	4	LYS	3.6
27	DD	90	ALA	3.6
38	BR	77	ARG	3.6
1	CA	1224	G	3.6
30	DG	77	ILE	3.6
49	B2	1	MET	3.6
5	AC	159	GLY	3.6
43	BW	107	LEU	3.6
39	BS	62	LYS	3.6
24	CX	123	PHE	3.6
34	BN	113	MET	3.6
24	CX	153	GLY	3.6
30	DG	176	LEU	3.6
50	B3	31	LEU	3.6

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Mol	Chain	Res	Type	RSRZ
1	CA	727	G	3.6
34	DN	34	PRO	3.6
6	CD	119	GLN	3.6
27	BD	240	ALA	3.6
6	CD	16	GLY	3.6
12	CJ	40	LEU	3.6
22	CT	24	LEU	3.6
27	DD	61	LEU	3.6
39	BS	69	VAL	3.6
45	BY	42	VAL	3.6
50	D3	58	VAL	3.6
38	DR	109	ALA	3.6
12	AJ	98	ILE	3.6
6	CD	108	LEU	3.6
32	DI	35	LEU	3.6
51	D4	50	THR	3.6
18	AP	35	LYS	3.6
16	CN	23	ARG	3.6
23	CU	9	ARG	3.6
34	BN	97	ARG	3.6
47	B0	22	GLY	3.6
28	BE	75	VAL	3.6
36	BP	27	HIS	3.6
28	DE	122	PHE	3.6
32	DI	79	ILE	3.6
32	DI	117	GLU	3.6
33	BJ	10	LEU	3.6
55	D8	15	LYS	3.6
1	CA	1259	C	3.6
5	AC	158	GLY	3.6
24	AX	52	ARG	3.6
26	BB	48	A	3.6
30	BG	25	TYR	3.6
15	AM	31	LYS	3.6
4	CB	36	ARG	3.5
37	BQ	29	PHE	3.6
19	AQ	84	LEU	3.5
40	DT	50	ILE	3.5
37	BQ	103	MET	3.5
30	DG	36	LYS	3.5
6	CD	66	ARG	3.5
10	CH	111	ILE	3.5

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Mol	Chain	Res	Type	RSRZ
11	CI	77	ILE	3.5
22	CT	79	ARG	3.5
31	BH	36	PRO	3.5
35	DO	64	ARG	3.5
28	BE	7	VAL	3.5
47	B0	12	ASN	3.5
20	AR	29	PHE	3.5
38	BR	47	PHE	3.5
6	CD	135	LEU	3.5
11	AI	74	ILE	3.5
22	AT	24	LEU	3.5
28	BE	73	GLU	3.5
55	B8	61	LEU	3.5
13	AK	42	TRP	3.5
15	CM	59	TYR	3.5
25	BA	1044	G	3.5
18	CP	71	ARG	3.5
24	AX	37	ARG	3.5
45	BY	73	ARG	3.5
4	CB	218	ALA	3.5
7	CE	139	LEU	3.5
17	CO	30	ALA	3.5
45	DY	36	ALA	3.5
46	BZ	5	LEU	3.5
37	BQ	92	GLY	3.5
10	CH	118	VAL	3.5
32	DI	136	VAL	3.5
40	DT	28	VAL	3.5
10	AH	84	ARG	3.5
10	CH	133	LEU	3.5
11	AI	50	LEU	3.5
6	CD	62	GLN	3.5
28	BE	184	VAL	3.5
28	DE	117	MET	3.5
25	DA	2178	C	3.5
39	DS	17	ARG	3.5
31	BH	162	ILE	3.5
7	AE	44	GLY	3.5
11	CI	115	GLY	3.5
22	CT	103	GLY	3.5
40	DT	8	LYS	3.5
14	CL	23	VAL	3.5

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Mol	Chain	Res	Type	RSRZ
24	CX	66	ASP	3.5
47	B0	39	ARG	3.5
10	CH	32	LYS	3.5
32	BI	44	LEU	3.5
35	DO	9	GLU	3.5
4	AB	85	ALA	3.5
8	AF	90	VAL	3.5
18	CP	42	ARG	3.5
31	DH	115	VAL	3.5
37	BQ	132	VAL	3.5
55	B8	17	THR	3.5
7	CE	49	PRO	3.5
4	AB	134	GLU	3.5
16	CN	17	LYS	3.5
44	DX	77	LYS	3.5
50	B3	7	LYS	3.5
19	CQ	6	LEU	3.5
1	CA	1258	G	3.5
4	CB	30	ARG	3.5
6	AD	67	ILE	3.5
18	AP	24	ALA	3.5
24	CX	45	ILE	3.5
28	DE	26	ILE	3.5
11	AI	41	VAL	3.5
18	CP	2	VAL	3.5
1	AA	1531	A	3.5
16	AN	15	LYS	3.5
25	DA	1759	A	3.5
35	BO	28	SER	3.5
47	D0	72	ARG	3.5
39	DS	66	ALA	3.5
5	CC	138	VAL	3.5
1	AA	307	C	3.5
1	CA	662	G	3.5
11	AI	27	THR	3.5
55	B8	4	MET	3.5
5	AC	90	GLU	3.5
36	DP	27	HIS	3.5
46	BZ	61	LEU	3.5
1	AA	975	A	3.5
6	CD	147	ALA	3.5
55	D8	23	VAL	3.5

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Mol	Chain	Res	Type	RSRZ
4	CB	193	ASP	3.5
21	CS	39	THR	3.5
21	CS	78	ARG	3.5
34	BN	66	THR	3.5
1	CA	1149	C	3.5
1	CA	1369	C	3.5
36	BP	138	LEU	3.5
40	BT	99	LEU	3.5
11	AI	77	ILE	3.5
10	CH	113	SER	3.5
11	AI	26	VAL	3.5
18	CP	50	LYS	3.5
22	AT	65	LYS	3.5
32	DI	98	ALA	3.5
44	DX	68	ARG	3.5
4	CB	31	TYR	3.5
1	AA	308	C	3.4
25	BA	2703	C	3.4
1	CA	79	G	3.4
2	CZ	33	U	3.4
22	AT	70	SER	3.4
4	AB	70	PHE	3.4
25	BA	2168	G	3.4
39	BS	27	SER	3.4
13	CK	66	LEU	3.4
25	BA	2117	A	3.4
28	DE	181	LEU	3.4
46	BZ	157	LEU	3.4
16	AN	4	LYS	3.4
21	CS	59	PRO	3.4
31	DH	168	PRO	3.4
44	DX	85	PRO	3.4
46	DZ	179	ASP	3.4
53	B6	23	THR	3.4
4	CB	229	VAL	3.4
7	AE	32	VAL	3.4
24	AX	197	ALA	3.4
16	AN	29	ARG	3.4
1	CA	137	C	3.4
9	CG	56	GLN	3.4
15	AM	8	GLU	3.4
42	BV	91	TYR	3.4

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Mol	Chain	Res	Type	RSRZ
25	BA	1063	G	3.4
34	BN	136	GLY	3.4
13	CK	87	THR	3.4
16	CN	5	ALA	3.4
24	AX	36	ARG	3.4
50	B3	2	PRO	3.4
6	CD	54	TYR	3.4
46	BZ	3	TYR	3.4
25	DA	2122	U	3.4
31	DH	111	HIS	3.4
30	DG	165	THR	3.4
22	CT	104	LEU	3.4
27	BD	166	GLN	3.4
36	BP	105	LEU	3.4
40	DT	51	ARG	3.4
1	CA	1244	C	3.4
6	CD	117	ALA	3.4
45	DY	54	LYS	3.4
28	DE	96	PHE	3.4
18	AP	39	TYR	3.4
25	DA	257	A	3.4
25	BA	2166	G	3.4
1	AA	1115	C	3.4
32	DI	122	GLU	3.4
43	BW	37	ARG	3.4
11	CI	92	TYR	3.4
45	BY	64	GLU	3.4
15	AM	29	ARG	3.4
46	DZ	102	LEU	3.4
48	D1	85	LEU	3.4
17	AO	58	MET	3.4
29	BF	176	LEU	3.4
8	AF	8	ILE	3.4
12	AJ	34	VAL	3.4
25	BA	1089	G	3.4
35	DO	99	PHE	3.4
6	CD	71	SER	3.4
14	CL	26	LEU	3.4
24	CX	2	LEU	3.4
6	CD	182	LYS	3.4
55	D8	8	LYS	3.4
7	CE	11	ILE	3.4

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Mol	Chain	Res	Type	RSRZ
18	CP	4	ILE	3.4
29	DF	28	ILE	3.4
1	CA	1531	A	3.4
19	CQ	73	VAL	3.4
24	AX	78	ARG	3.4
27	DD	9	TYR	3.4
21	CS	42	PRO	3.4
33	BJ	59	ILE	3.4
17	AO	62	GLN	3.4
27	DD	244	ARG	3.4
28	BE	163	GLU	3.4
28	DE	151	TYR	3.4
44	DX	26	TYR	3.4
45	BY	23	ARG	3.4
25	BA	2167	U	3.4
25	BA	2173	A	3.4
25	DA	1026	U	3.4
41	DU	99	ALA	3.4
46	BZ	133	ILE	3.3
10	AH	95	VAL	3.3
5	CC	135	LYS	3.3
37	DQ	112	GLU	3.3
6	CD	64	LEU	3.3
12	CJ	15	THR	3.3
10	AH	111	ILE	3.3
28	BE	58	ARG	3.3
12	CJ	39	PRO	3.3
41	BU	29	SER	3.3
11	CI	62	TYR	3.3
25	DA	2174	C	3.3
27	DD	171	ASP	3.3
34	DN	98	TYR	3.3
39	DS	12	PHE	3.3
4	AB	177	ALA	3.3
11	AI	43	ALA	3.3
11	AI	79	LEU	3.3
31	BH	17	VAL	3.3
31	DH	160	LYS	3.3
35	BO	57	VAL	3.3
9	AG	26	PHE	3.3
11	AI	37	PHE	3.3
22	AT	18	GLN	3.3

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Mol	Chain	Res	Type	RSRZ
37	DQ	29	PHE	3.3
41	BU	20	LEU	3.3
41	DU	18	LEU	3.3
25	DA	7	G	3.3
25	DA	1973	G	3.3
25	DA	2123	G	3.3
28	BE	29	GLY	3.3
17	AO	78	TYR	3.3
24	AX	123	PHE	3.3
30	DG	175	LEU	3.3
40	DT	99	LEU	3.3
12	AJ	28	ARG	3.3
12	CJ	20	ALA	3.3
28	BE	174	ASP	3.3
4	CB	164	VAL	3.3
29	DF	154	VAL	3.3
32	DI	74	ASN	3.3
30	DG	86	MET	3.3
41	DU	81	HIS	3.3
17	CO	69	TYR	3.3
18	CP	25	ARG	3.3
25	DA	271(D)	U	3.3
46	DZ	83	PRO	3.3
8	CF	101	ALA	3.3
6	AD	90	GLY	3.3
25	DA	256	A	3.3
29	DF	194	MET	3.3
11	AI	73	GLN	3.3
25	DA	1076	C	3.3
46	BZ	4	ARG	3.3
55	B8	48	PHE	3.3
37	BQ	78	PRO	3.3
37	DQ	12	GLN	3.3
38	DR	4	LEU	3.3
41	BU	84	LYS	3.3
46	BZ	130	PRO	3.3
25	DA	2113	U	3.3
45	DY	65	ALA	3.3
15	AM	4	ILE	3.3
1	CA	1001	G	3.3
6	CD	121	VAL	3.3
12	CJ	10	GLY	3.3

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Mol	Chain	Res	Type	RSRZ
17	AO	64	ARG	3.3
1	AA	1318	A	3.3
7	AE	31	LEU	3.3
24	AX	71	LYS	3.3
24	CX	324	LEU	3.3
28	DE	166	THR	3.3
34	BN	143	LEU	3.3
40	DT	100	TYR	3.3
46	BZ	187	ALA	3.3
34	DN	94	ILE	3.3
19	CQ	61	GLU	3.3
36	BP	7	ARG	3.3
49	B2	63	VAL	3.3
53	B6	27	LYS	3.3
4	AB	92	TYR	3.3
46	BZ	151	HIS	3.3
1	AA	1287	A	3.3
1	CA	653	A	3.3
25	BA	1046	A	3.3
4	AB	164	VAL	3.3
12	AJ	60	ARG	3.3
29	BF	95	ARG	3.3
32	DI	41	GLU	3.3
40	DT	88	ILE	3.3
42	DV	53	GLU	3.3
4	CB	28	PHE	3.3
9	AG	33	ASP	3.3
11	CI	96	LEU	3.3
16	AN	6	LEU	3.3
44	DX	29	TRP	3.3
14	AL	119	TYR	3.3
27	BD	233	HIS	3.3
43	BW	34	ASN	3.3
6	AD	69	GLY	3.3
12	CJ	98	ILE	3.3
14	AL	27	LYS	3.3
24	AX	118	GLU	3.3
25	DA	2152	G	3.3
28	DE	200	GLU	3.3
45	DY	39	VAL	3.3
25	BA	1088	A	3.3
4	AB	118	LEU	3.3

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Mol	Chain	Res	Type	RSRZ
6	AD	74	GLN	3.3
30	DG	12	TYR	3.3
43	BW	38	TYR	3.3
21	CS	50	ALA	3.3
28	BE	28	ALA	3.3
45	BY	68	HIS	3.3
53	B6	25	LYS	3.3
28	BE	196	VAL	3.3
38	DR	48	VAL	3.3
33	DJ	58	LEU	3.3
38	BR	51	LEU	3.3
6	CD	138	TYR	3.2
11	AI	116	LYS	3.2
12	AJ	22	LYS	3.2
13	AK	122	LYS	3.2
15	CM	111	LYS	3.2
9	CG	37	ASN	3.2
43	DW	24	ILE	3.2
46	DZ	56	VAL	3.2
51	B4	43	GLY	3.2
12	CJ	8	LEU	3.2
41	BU	19	LYS	3.2
48	B1	38	SER	3.2
11	AI	36	TYR	3.2
34	BN	101	TYR	3.2
34	DN	111	GLU	3.2
19	AQ	8	GLY	3.2
25	BA	1112	G	3.2
29	BF	41	LEU	3.2
35	BO	1	MET	3.2
13	AK	119	CYS	3.2
19	CQ	23	VAL	3.2
29	DF	126	VAL	3.2
32	BI	39	ALA	3.2
32	DI	83	ALA	3.2
37	BQ	80	GLU	3.2
47	B0	68	GLU	3.2
6	CD	50	ARG	3.2
15	AM	65	LYS	3.2
25	BA	2158	A	3.2
27	BD	208	LYS	3.2
44	BX	53	LYS	3.2

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Mol	Chain	Res	Type	RSRZ
25	DA	1383	C	3.2
25	DA	2805	G	3.2
42	DV	54	GLY	3.2
12	AJ	64	GLU	3.2
31	DH	157	TYR	3.2
6	CD	114	ARG	3.2
12	CJ	47	PHE	3.2
29	BF	43	LYS	3.2
45	BY	24	VAL	3.2
31	DH	116	GLU	3.2
18	CP	36	ILE	3.2
48	D1	33	LYS	3.2
24	AX	220	ASP	3.2
25	BA	2111	C	3.2
29	DF	129	PHE	3.2
25	BA	1071	G	3.2
6	CD	207	TYR	3.2
10	AH	134	ILE	3.2
28	BE	12	THR	3.2
32	BI	144	VAL	3.2
32	DI	25	TYR	3.2
54	B7	46	VAL	3.2
2	CZ	16	C	3.2
25	DA	2333	A	3.2
21	AS	41	VAL	3.2
13	CK	19	ALA	3.2
14	CL	97	TYR	3.2
34	DN	68	ASN	3.2
39	DS	36	TYR	3.2
34	DN	138	ARG	3.2
1	AA	994	A	3.2
25	BA	2175	C	3.2
4	CB	215	LEU	3.2
32	BI	124	GLY	3.2
1	CA	1361	G	3.2
25	DA	2124	G	3.2
25	DA	2156	G	3.2
28	BE	171	GLU	3.2
34	DN	91	GLU	3.2
16	AN	60	SER	3.2
35	BO	22	ILE	3.2
44	BX	11	PRO	3.2

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Mol	Chain	Res	Type	RSRZ
49	B2	21	LEU	3.2
4	CB	114	ARG	3.2
18	AP	55	ARG	3.2
32	DI	52	ARG	3.2
10	AH	136	GLU	3.2
13	AK	87	THR	3.2
25	BA	2118	U	3.2
30	BG	29	TRP	3.2
32	BI	64	GLU	3.2
5	AC	157	ILE	3.2
27	BD	5	LYS	3.2
28	BE	182	LEU	3.2
30	BG	63	ILE	3.2
40	BT	101	PHE	3.2
47	D0	69	PHE	3.2
48	D1	48	LYS	3.2
1	AA	132	C	3.1
1	CA	998(B)	C	3.1
25	DA	645	C	3.1
30	DG	93	THR	3.1
25	DA	2895	U	3.1
39	DS	28	VAL	3.1
16	AN	39	LEU	3.1
28	DE	27	LEU	3.1
24	CX	63	SER	3.1
45	DY	69	ALA	3.1
24	AX	72	GLU	3.1
28	BE	60	ASN	3.1
31	BH	74	ASN	3.1
21	AS	74	PHE	3.1
24	AX	128	PHE	3.1
26	BB	49	C	3.1
4	CB	157	ARG	3.1
18	AP	60	LEU	3.1
27	BD	182	LEU	3.1
31	DH	161	GLY	3.1
34	DN	117	HIS	3.1
37	DQ	131	ILE	3.1
14	CL	50	ALA	3.1
4	AB	129	GLU	3.1
4	CB	32	ILE	3.1
12	CJ	63	PHE	3.1

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Mol	Chain	Res	Type	RSRZ
17	CO	87	ILE	3.1
19	CQ	59	ILE	3.1
41	BU	9	VAL	3.1
55	B8	58	ILE	3.1
1	AA	102(C)	C	3.1
26	BB	47	C	3.1
18	AP	58	TYR	3.1
25	BA	271(D)	U	3.1
25	DA	225	A	3.1
30	DG	25	TYR	3.1
53	D6	39	TYR	3.1
45	BY	40	GLU	3.1
45	DY	28	LYS	3.1
23	CU	24	ARG	3.1
6	AD	2	GLY	3.1
24	AX	244	LEU	3.1
4	AB	194	PRO	3.1
14	CL	126	GLU	3.1
1	AA	309	G	3.1
1	CA	90	C	3.1
1	CA	664	G	3.1
11	AI	126	SER	3.1
47	D0	44	ARG	3.1
9	AG	43	PHE	3.1
10	AH	137	VAL	3.1
11	CI	53	VAL	3.1
7	CE	22	GLY	3.1
12	CJ	85	LEU	3.1
37	DQ	24	GLY	3.1
48	D1	16	ASN	3.1
4	CB	188	ALA	3.1
15	CM	42	ALA	3.1
19	AQ	37	LYS	3.1
37	BQ	77	LYS	3.1
9	CG	32	ARG	3.1
31	BH	152	ARG	3.1
33	DJ	21	GLN	3.1
34	BN	138	ARG	3.1
21	AS	4	SER	3.1
22	CT	11	SER	3.1
28	BE	49	LEU	3.1
32	DI	114	LEU	3.1

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Mol	Chain	Res	Type	RSRZ
39	DS	14	VAL	3.1
18	CP	35	LYS	3.1
25	BA	1068	G	3.1
42	BV	74	LYS	3.1
53	D6	38	LYS	3.1
15	AM	28	ALA	3.1
24	CX	331	HIS	3.1
27	BD	239	ARG	3.1
37	DQ	91	GLU	3.1
29	DF	96	ASP	3.1
4	CB	26	PRO	3.1
24	CX	189	GLN	3.1
29	DF	193	VAL	3.1
35	DO	79	PHE	3.1
47	D0	47	PRO	3.1
25	DA	2130	U	3.1
26	DB	17	C	3.1
4	CB	35	GLU	3.1
31	BH	32	GLU	3.1
40	DT	115	ARG	3.1
1	AA	1250	A	3.1
1	CA	975	A	3.1
1	CA	1046	A	3.1
25	BA	2156	G	3.1
28	DE	44	TYR	3.1
5	AC	10	PHE	3.1
7	AE	26	PHE	3.1
28	BE	107	THR	3.1
27	DD	147	LEU	3.1
32	DI	38	LEU	3.1
55	B8	43	GLN	3.1
21	AS	31	ILE	3.1
47	D0	36	ILE	3.1
55	D8	59	LYS	3.1
11	AI	16	ARG	3.1
27	DD	162	SER	3.1
37	DQ	59	ARG	3.1
6	CD	205	GLU	3.1
28	BE	169	ASN	3.1
38	DR	13	HIS	3.1
28	BE	78	LEU	3.1
31	BH	109	PHE	3.1

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Mol	Chain	Res	Type	RSRZ
34	DN	106	LYS	3.1
41	DU	105	VAL	3.1
13	AK	126	ARG	3.1
30	BG	24	GLY	3.1
40	DT	110	ILE	3.1
34	BN	95	TYR	3.1
41	DU	19	LYS	3.1
41	DU	24	TYR	3.1
6	AD	5	ILE	3.1
28	DE	48	GLN	3.1
41	BU	17	ILE	3.1
3	AV	12	A	3.1
14	AL	50	ALA	3.1
25	DA	2335	A	3.1
1	CA	1187	G	3.1
51	B4	46	ASN	3.1
29	BF	185	ASP	3.1
32	BI	95	LYS	3.0
36	DP	108	LYS	3.0
39	DS	51	ALA	3.0
6	AD	152	SER	3.0
12	AJ	35	SER	3.0
21	CS	37	ARG	3.0
25	BA	282	A	3.0
29	DF	24	LEU	3.0
32	BI	15	VAL	3.0
50	D3	6	VAL	3.0
53	D6	48	VAL	3.0
1	CA	743	U	3.0
24	CX	228	GLY	3.0
35	BO	5	GLN	3.0
9	CG	112	PRO	3.0
10	AH	88	LYS	3.0
25	BA	2154	G	3.0
30	DG	116	ASP	3.0
39	BS	88	ASP	3.0
17	AO	25	THR	3.0
28	BE	24	THR	3.0
6	CD	93	PHE	3.0
15	AM	110	ARG	3.0
25	DA	2179	C	3.0
28	DE	28	ALA	3.0

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Mol	Chain	Res	Type	RSRZ
10	AH	58	TYR	3.0
47	D0	79	VAL	3.0
16	CN	28	GLY	3.0
27	BD	136	ILE	3.0
27	DD	166	GLN	3.0
28	DE	171	GLU	3.0
28	DE	185	LYS	3.0
11	CI	107	ARG	3.0
42	DV	83	ARG	3.0
1	CA	21	G	3.0
6	AD	97	LEU	3.0
19	AQ	6	LEU	3.0
25	DA	2166	G	3.0
7	CE	109	ILE	3.0
25	DA	2111	C	3.0
30	DG	78	SER	3.0
15	AM	62	ASN	3.0
21	CS	66	MET	3.0
36	DP	61	ARG	3.0
17	CO	15	PHE	3.0
29	DF	21	ALA	3.0
29	DF	123	LEU	3.0
36	BP	75	ILE	3.0
38	DR	43	GLU	3.0
4	AB	153	ARG	3.0
47	B0	80	HIS	3.0
55	D8	7	HIS	3.0
6	CD	154	ASN	3.0
32	BI	132	PRO	3.0
15	AM	19	LEU	3.0
55	D8	48	PHE	3.0
25	BA	1175	U	3.0
39	DS	11	LYS	3.0
25	BA	2126	A	3.0
41	BU	80	ILE	3.0
47	B0	54	GLY	3.0
24	AX	189	GLN	3.0
30	BG	91	ARG	3.0
36	BP	77	ARG	3.0
6	AD	93	PHE	3.0
11	CI	47	LEU	3.0
22	AT	40	ALA	3.0

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Mol	Chain	Res	Type	RSRZ
32	DI	81	VAL	3.0
46	BZ	59	LEU	3.0
6	AD	102	ASP	3.0
28	BE	160	TYR	3.0
29	DF	191	ARG	3.0
37	BQ	33	GLY	3.0
40	DT	7	ILE	3.0
53	B6	37	ARG	3.0
46	BZ	170	THR	3.0
1	CA	389	A	3.0
11	AI	113	LYS	3.0
46	DZ	55	HIS	3.0
17	CO	31	LEU	3.0
21	AS	30	LEU	3.0
29	DF	142	TRP	3.0
41	DU	57	PHE	3.0
4	AB	71	VAL	3.0
27	DD	107	ALA	3.0
4	AB	99	GLY	3.0
6	CD	15	GLU	3.0
25	BA	2143	C	3.0
12	CJ	65	LEU	3.0
21	CS	10	PHE	3.0
24	CX	82	LEU	3.0
38	DR	14	SER	3.0
45	DY	31	LEU	3.0
5	CC	151	VAL	3.0
24	CX	327	VAL	3.0
5	AC	2	GLY	3.0
39	DS	35	ILE	3.0
34	BN	93	LYS	3.0
37	BQ	74	TYR	3.0
12	CJ	92	THR	3.0
6	AD	14	ARG	3.0
30	BG	34	LEU	3.0
49	B2	64	LEU	3.0
4	AB	24	TRP	3.0
15	AM	15	VAL	3.0
41	DU	90	VAL	3.0
7	AE	50	GLU	3.0
25	BA	2169	A	3.0
4	CB	94	ASN	3.0

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Mol	Chain	Res	Type	RSRZ
6	AD	161	ASN	3.0
5	CC	203	PHE	3.0
24	AX	324	LEU	3.0
28	BE	183	LEU	3.0
29	DF	155	LEU	3.0
31	BH	71	LEU	3.0
7	AE	30	ALA	3.0
25	BA	790	C	3.0
31	DH	107	VAL	3.0
4	AB	35	GLU	3.0
20	CR	75	ILE	3.0
31	DH	94	TYR	3.0
3	CV	23	A	3.0
23	CU	10	ARG	3.0
11	AI	85	LEU	3.0
24	CX	34	LEU	3.0
42	DV	40	LEU	3.0
44	DX	9	LEU	3.0
46	BZ	91	LEU	3.0
34	BN	141	LYS	3.0
35	DO	26	LYS	3.0
18	CP	55	ARG	2.9
6	AD	79	PHE	2.9
24	CX	100	ASP	2.9
29	DF	148	LEU	2.9
1	AA	1347	G	2.9
38	DR	71	GLN	2.9
45	BY	43	ASN	2.9
45	DY	81	LYS	2.9
46	DZ	73	GLN	2.9
6	AD	133	VAL	2.9
14	CL	60	THR	2.9
17	AO	61	GLY	2.9
22	CT	33	ILE	2.9
49	B2	27	GLU	2.9
49	D2	11	GLU	2.9
36	DP	80	TYR	2.9
44	BX	65	ARG	2.9
27	DD	208	LYS	2.9
27	DD	258	LYS	2.9
35	BO	26	LYS	2.9
38	BR	60	LEU	2.9

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Mol	Chain	Res	Type	RSRZ
6	CD	105	VAL	2.9
4	AB	214	ILE	2.9
37	DQ	108	GLY	2.9
11	CI	93	ARG	2.9
16	CN	19	ARG	2.9
21	CS	48	THR	2.9
44	DX	60	ARG	2.9
47	D0	25	ARG	2.9
51	B4	39	ARG	2.9
5	CC	147	LYS	2.9
13	CK	124	LYS	2.9
18	AP	41	PRO	2.9
27	DD	155	LEU	2.9
31	BH	117	PRO	2.9
48	D1	32	LYS	2.9
45	DY	14	LEU	2.9
2	CZ	1	C	2.9
4	AB	170	GLU	2.9
9	CG	8	GLU	2.9
47	D0	23	VAL	2.9
10	AH	9	MET	2.9
19	AQ	25	ARG	2.9
28	BE	61	ARG	2.9
43	DW	108	GLY	2.9
46	BZ	57	ILE	2.9
48	D1	21	ARG	2.9
55	D8	58	ILE	2.9
21	CS	70	LYS	2.9
23	CU	8	THR	2.9
30	BG	36	LYS	2.9
52	B5	30	LEU	2.9
4	CB	93	VAL	2.9
25	BA	1494	A	2.9
6	CD	31	CYS	2.9
10	CH	92	ARG	2.9
13	CK	65	ALA	2.9
22	CT	106	ALA	2.9
28	DE	76	ARG	2.9
30	BG	72	ARG	2.9
30	BG	110	ALA	2.9
46	BZ	51	ALA	2.9
4	CB	152	PHE	2.9

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Mol	Chain	Res	Type	RSRZ
6	AD	94	LEU	2.9
6	AD	207	TYR	2.9
40	DT	22	PHE	2.9
9	AG	14	PRO	2.9
10	AH	91	ARG	2.9
24	AX	147	SER	2.9
29	DF	40	GLN	2.9
36	DP	15	ARG	2.9
41	BU	50	ARG	2.9
36	BP	76	LYS	2.9
37	DQ	95	ALA	2.9
37	DQ	115	MET	2.9
48	D1	25	LYS	2.9
1	AA	654	G	2.9
1	CA	106	C	2.9
6	CD	153	ARG	2.9
7	CE	135	THR	2.9
9	AG	23	VAL	2.9
27	DD	83	GLU	2.9
34	DN	77	VAL	2.9
40	BT	64	ARG	2.9
40	DT	3	ARG	2.9
9	AG	46	ALA	2.9
17	CO	36	ILE	2.9
39	BS	60	GLY	2.9
39	DS	53	SER	2.9
14	CL	31	PHE	2.9
18	AP	12	LYS	2.9
24	CX	9	GLU	2.9
31	DH	114	VAL	2.9
38	DR	56	LYS	2.9
7	AE	23	GLY	2.9
19	AQ	7	THR	2.9
29	BF	51	THR	2.9
35	DO	28	SER	2.9
38	DR	15	SER	2.9
7	CE	27	ARG	2.9
11	AI	102	LEU	2.9
11	CI	32	ASP	2.9
27	BD	175	LEU	2.9
30	DG	115	ARG	2.9
4	CB	12	GLU	2.9

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Mol	Chain	Res	Type	RSRZ
19	CQ	56	VAL	2.9
24	AX	26	LYS	2.9
40	DT	113	LYS	2.9
42	BV	69	LYS	2.9
4	CB	45	GLN	2.9
11	CI	49	PRO	2.9
27	DD	36	PRO	2.9
22	AT	28	ALA	2.9
37	BQ	75	THR	2.9
43	BW	24	ILE	2.9
38	DR	111	LEU	2.9
48	D1	38	SER	2.9
1	CA	86	U	2.9
21	CS	73	GLU	2.9
43	DW	21	VAL	2.9
22	AT	55	ILE	2.9
40	BT	110	ILE	2.9
35	DO	84	ALA	2.9
13	CK	123	LYS	2.9
17	AO	67	LEU	2.9
25	BA	1884	A	2.9
29	DF	20	LEU	2.9
1	CA	43	C	2.9
25	DA	2138	C	2.9
41	DU	72	HIS	2.9
28	BE	180	ASN	2.9
32	BI	16	GLY	2.9
37	DQ	10	ARG	2.9
40	BT	102	ILE	2.9
42	BV	88	ARG	2.9
41	DU	84	LYS	2.9
10	AH	36	LEU	2.9
49	D2	60	LEU	2.9
1	CA	1319	A	2.9
6	CD	102	ASP	2.9
16	CN	18	VAL	2.9
18	CP	61	SER	2.9
23	CU	5	ASP	2.9
24	AX	239	VAL	2.9
31	DH	46	GLU	2.9
37	DQ	93	TYR	2.9
1	AA	322	C	2.9

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Mol	Chain	Res	Type	RSRZ
48	B1	21	ARG	2.9
27	DD	39	LYS	2.8
1	AA	1025	U	2.8
25	DA	389	G	2.8
41	BU	21	ALA	2.8
47	D0	61	ALA	2.8
29	BF	27	GLU	2.8
31	DH	167	GLU	2.8
5	CC	172	ARG	2.8
16	AN	27	CYS	2.8
19	CQ	25	ARG	2.8
41	DU	12	ARG	2.8
10	CH	134	ILE	2.8
28	DE	77	ILE	2.8
37	DQ	30	GLY	2.8
45	BY	22	GLY	2.8
48	B1	37	ILE	2.8
50	B3	48	GLU	2.8
13	CK	84	VAL	2.8
15	CM	99	ARG	2.8
46	DZ	86	VAL	2.8
24	AX	196	THR	2.8
30	DG	131	TYR	2.8
29	DF	98	SER	2.8
5	CC	160	ALA	2.8
14	CL	29	ALA	2.8
20	CR	31	LEU	2.8
51	D4	38	ALA	2.8
25	BA	1104	C	2.8
25	DA	1641	A	2.8
25	DA	2170	A	2.8
32	BI	41	GLU	2.8
17	CO	54	ARG	2.8
37	DQ	11	LYS	2.8
7	AE	13	ILE	2.8
22	AT	69	GLY	2.8
24	AX	186	THR	2.8
1	AA	230	G	2.8
24	CX	323	ASP	2.8
55	B8	60	LEU	2.8
11	AI	110	GLU	2.8
27	BD	16	MET	2.8

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Mol	Chain	Res	Type	RSRZ
40	DT	129	ARG	2.8
45	DY	86	ARG	2.8
11	AI	23	ASN	2.8
1	CA	1044	A	2.8
13	AK	118	GLY	2.8
32	BI	107	ILE	2.8
11	CI	18	PHE	2.8
33	DJ	12	THR	2.8
44	BX	28	PHE	2.8
19	AQ	83	ASP	2.8
37	DQ	135	ASP	2.8
46	BZ	67	LEU	2.8
46	BZ	150	LEU	2.8
31	BH	133	VAL	2.8
2	CZ	22	G	2.8
27	DD	174	ILE	2.8
1	CA	1027	C	2.8
18	AP	57	ARG	2.8
24	AX	298	ARG	2.8
24	CX	244	LEU	2.8
27	BD	133	LEU	2.8
27	DD	255	LYS	2.8
43	DW	23	LEU	2.8
44	DX	92	LEU	2.8
4	AB	90	MET	2.8
4	AB	195	ASP	2.8
30	BG	166	ASP	2.8
42	BV	64	HIS	2.8
10	CH	95	VAL	2.8
24	AX	35	SER	2.8
46	BZ	28	MET	2.8
45	BY	7	VAL	2.8
11	CI	63	ILE	2.8
28	DE	193	GLY	2.8
34	BN	98	TYR	2.8
14	AL	118	LYS	2.8
15	AM	80	ARG	2.8
15	CM	56	LEU	2.8
22	AT	99	LEU	2.8
28	BE	199	ARG	2.8
31	DH	87	LEU	2.8
45	DY	23	ARG	2.8

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Mol	Chain	Res	Type	RSRZ
8	AF	89	MET	2.8
24	AX	295	THR	2.8
24	CX	119	GLU	2.8
25	DA	2189	U	2.8
25	BA	1387	C	2.8
25	DA	866	A	2.8
28	DE	9	VAL	2.8
7	AE	24	ARG	2.8
7	CE	13	ILE	2.8
21	AS	62	ILE	2.8
40	DT	47	GLY	2.8
47	D0	83	PRO	2.8
4	CB	121	LEU	2.8
18	AP	49	LEU	2.8
24	CX	155	PHE	2.8
37	DQ	69	PHE	2.8
48	D1	20	ARG	2.8
24	CX	14	GLU	2.8
46	BZ	11	GLU	2.8
30	BG	165	THR	2.8
4	CB	137	ARG	2.8
55	D8	11	LYS	2.8
25	DA	528	A	2.8
50	B3	56	VAL	2.8
9	CG	33	ASP	2.8
18	AP	42	ARG	2.8
21	CS	57	HIS	2.8
46	BZ	77	ASP	2.8
48	D1	10	LYS	2.8
4	AB	143	GLU	2.8
15	AM	69	GLU	2.8
41	DU	102	GLU	2.8
8	AF	54	LYS	2.8
11	CI	68	GLY	2.8
27	BD	235	GLY	2.8
6	AD	114	ARG	2.8
13	CK	82	VAL	2.8
14	CL	101	ARG	2.8
21	CS	55	LYS	2.8
27	DD	93	ALA	2.8
34	BN	35	ARG	2.8
49	B2	65	ASN	2.8

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Mol	Chain	Res	Type	RSRZ
50	D3	56	VAL	2.8
1	CA	407	G	2.8
7	CE	26	PHE	2.7
32	DI	16	GLY	2.7
34	DN	110	LEU	2.7
9	AG	85	TYR	2.7
55	B8	40	GLU	2.7
11	CI	98	PRO	2.7
49	D2	4	SER	2.7
49	D2	68	ARG	2.7
18	AP	20	VAL	2.7
33	DJ	7	VAL	2.7
38	BR	48	VAL	2.7
40	DT	70	VAL	2.7
41	DU	8	VAL	2.7
1	AA	1317	C	2.7
12	AJ	6	ILE	2.7
13	AK	46	GLY	2.7
25	DA	867	C	2.7
31	BH	82	GLY	2.7
32	DI	4	ILE	2.7
13	AK	28	THR	2.7
13	CK	50	TYR	2.7
36	BP	17	LYS	2.7
15	CM	103	THR	2.7
16	AN	12	ARG	2.7
22	AT	15	ARG	2.7
38	DR	86	ARG	2.7
4	AB	29	ALA	2.7
24	CX	35	SER	2.7
24	CX	47	LEU	2.7
24	CX	296	GLY	2.7
45	BY	14	LEU	2.7
41	DU	70	ARG	2.7
1	CA	175	C	2.7
6	CD	111	ALA	2.7
24	AX	183	VAL	2.7
27	DD	40	THR	2.7
37	BQ	90	VAL	2.7
40	DT	72	VAL	2.7
27	DD	12	SER	2.7
27	DD	32	SER	2.7

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Mol	Chain	Res	Type	RSRZ
41	BU	25	TRP	2.7
25	DA	1068	G	2.7
6	CD	2	GLY	2.7
41	BU	40	PHE	2.7
4	AB	30	ARG	2.7
6	AD	138	TYR	2.7
6	CD	20	TYR	2.7
44	DX	51	VAL	2.7
50	D3	16	PRO	2.7
21	CS	8	GLY	2.7
27	BD	238	GLY	2.7
30	DG	80	PHE	2.7
38	BR	22	ARG	2.7
41	DU	32	PHE	2.7
46	BZ	98	MET	2.7
46	BZ	144	LEU	2.7
55	D8	32	LEU	2.7
2	CZ	2	G	2.7
25	BA	2807	G	2.7
45	DY	42	VAL	2.7
18	AP	31	LYS	2.7
31	BH	150	ALA	2.7
39	DS	37	ALA	2.7
15	CM	110	ARG	2.7
16	CN	54	PRO	2.7
28	BE	13	ARG	2.7
38	DR	110	PRO	2.7
39	DS	87	PHE	2.7
4	CB	224	GLN	2.7
1	CA	93	U	2.7
12	AJ	68	HIS	2.7
28	BE	2	LYS	2.7
52	D5	53	ALA	2.7
4	AB	38	GLY	2.7
10	CH	101	PRO	2.7
12	AJ	63	PHE	2.7
24	CX	65	LEU	2.7
27	BD	214	TRP	2.7
30	BG	90	LEU	2.7
9	CG	3	ARG	2.7
11	AI	117	HIS	2.7
12	AJ	24	VAL	2.7

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Mol	Chain	Res	Type	RSRZ
41	BU	16	LYS	2.7
55	D8	5	LYS	2.7
14	CL	112	ARG	2.7
19	AQ	51	TYR	2.7
29	DF	95	ARG	2.7
25	BA	2135	A	2.7
6	CD	60	GLU	2.7
28	DE	5	LEU	2.7
38	DR	72	ASP	2.7
39	BS	73	LEU	2.7
50	D3	38	GLU	2.7
22	CT	61	SER	2.7
25	DA	463	G	2.7
25	DA	2389	G	2.7
55	D8	35	GLN	2.7
4	AB	236	TYR	2.7
17	AO	54	ARG	2.7
24	CX	38	TYR	2.7
55	B8	13	ARG	2.7
2	AZ	36	U	2.7
5	AC	189	ALA	2.7
19	CQ	58	GLU	2.7
38	BR	102	GLU	2.7
44	BX	21	PHE	2.7
37	BQ	73	PRO	2.7
37	DQ	39	PRO	2.7
41	BU	30	LYS	2.7
45	DY	95	LYS	2.7
21	AS	33	THR	2.7
34	BN	99	SER	2.7
37	DQ	97	VAL	2.7
6	AD	68	TYR	2.7
1	CA	755	G	2.7
17	CO	46	HIS	2.7
17	AO	70	LEU	2.7
22	AT	63	ILE	2.7
27	BD	258	LYS	2.7
10	CH	53	VAL	2.7
14	CL	42	VAL	2.7
30	DG	109	VAL	2.7
27	DD	62	TYR	2.7
22	AT	43	LEU	2.7

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Mol	Chain	Res	Type	RSRZ
27	BD	147	LEU	2.7
36	BP	100	LEU	2.7
27	BD	174	ILE	2.7
27	DD	106	ILE	2.7
30	DG	129	GLY	2.7
55	B8	21	LYS	2.7
37	BQ	42	ILE	2.7
1	AA	306	G	2.7
36	DP	71	VAL	2.7
41	DU	9	VAL	2.7
4	AB	132	LYS	2.6
10	AH	65	TYR	2.6
19	CQ	32	TYR	2.6
1	AA	262	A	2.6
1	CA	663	A	2.6
4	CB	118	LEU	2.6
27	BD	272	ALA	2.6
27	DD	2	ALA	2.6
32	DI	59	ALA	2.6
37	DQ	40	ALA	2.6
44	BX	71	GLY	2.6
46	BZ	121	HIS	2.6
28	BE	168	MET	2.6
45	BY	37	VAL	2.6
25	BA	2144	U	2.6
44	BX	64	LYS	2.6
25	BA	1093	G	2.6
25	DA	2165	G	2.6
29	DF	124	LEU	2.6
30	BG	73	ALA	2.6
31	BH	170	ARG	2.6
40	DT	36	GLU	2.6
46	DZ	183	LEU	2.6
19	CQ	39	SER	2.6
17	CO	58	MET	2.6
25	DA	2126	A	2.6
6	CD	169	LYS	2.6
29	DF	43	LYS	2.6
43	BW	21	VAL	2.6
46	DZ	118	GLN	2.6
54	D7	46	VAL	2.6
55	B8	23	VAL	2.6

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Mol	Chain	Res	Type	RSRZ
24	AX	57	ASP	2.6
16	CN	29	ARG	2.6
17	AO	72	ARG	2.6
19	AQ	22	LEU	2.6
24	AX	79	GLU	2.6
38	DR	44	LEU	2.6
40	DT	128	GLU	2.6
37	BQ	19	GLY	2.6
49	B2	62	THR	2.6
30	BG	76	SER	2.6
40	BT	106	SER	2.6
22	CT	81	LYS	2.6
31	DH	44	VAL	2.6
45	BY	63	LYS	2.6
20	AR	64	ARG	2.6
24	CX	125	ARG	2.6
27	BD	171	ASP	2.6
28	DE	111	ARG	2.6
48	B1	36	GLY	2.6
1	AA	999	U	2.6
1	CA	1450	U	2.6
22	AT	68	LYS	2.6
27	DD	7	LYS	2.6
31	BH	90	LYS	2.6
35	DO	1	MET	2.6
18	AP	62	VAL	2.6
27	DD	221	VAL	2.6
46	BZ	52	SER	2.6
9	CG	4	ARG	2.6
6	CD	80	GLU	2.6
1	CA	1316	G	2.6
4	AB	44	LEU	2.6
32	BI	10	GLU	2.6
47	D0	70	GLN	2.6
11	AI	72	GLY	2.6
25	BA	1056	G	2.6
27	BD	39	LYS	2.6
35	DO	11	ALA	2.6
41	BU	45	TYR	2.6
11	CI	78	LYS	2.6
45	BY	36	ALA	2.6
6	CD	139	ARG	2.6

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Mol	Chain	Res	Type	RSRZ
9	CG	10	ARG	2.6
14	AL	60	THR	2.6
10	AH	23	SER	2.6
13	AK	43	SER	2.6
23	AU	22	ARG	2.6
50	B3	6	VAL	2.6
13	CK	63	LEU	2.6
18	AP	34	GLU	2.6
28	BE	51	PHE	2.6
25	BA	2174	C	2.6
28	DE	109	LYS	2.6
37	BQ	39	PRO	2.6
40	DT	2	ASN	2.6
4	CB	77	ALA	2.6
6	CD	32	ALA	2.6
16	CN	20	ALA	2.6
38	DR	49	ASP	2.6
41	BU	56	ASP	2.6
43	DW	38	TYR	2.6
4	CB	144	ARG	2.6
21	CS	69	HIS	2.6
24	CX	239	VAL	2.6
30	DG	15	VAL	2.6
30	DG	37	VAL	2.6
34	BN	121	VAL	2.6
34	DN	120	ARG	2.6
36	BP	126	VAL	2.6
46	BZ	112	ARG	2.6
6	AD	71	SER	2.6
12	AJ	47	PHE	2.6
17	CO	32	LEU	2.6
38	DR	10	LEU	2.6
41	BU	83	LEU	2.6
41	DU	40	PHE	2.6
7	CE	23	GLY	2.6
30	DG	26	GLN	2.6
1	CA	1043	C	2.6
4	AB	131	PRO	2.6
5	CC	163	ALA	2.6
14	AL	4	PRO	2.6
24	AX	238	ALA	2.6
42	DV	99	ILE	2.6

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Mol	Chain	Res	Type	RSRZ
16	AN	57	ARG	2.6
41	DU	11	ARG	2.6
24	CX	1	MET	2.6
12	CJ	14	LYS	2.6
31	BH	124	GLU	2.6
38	DR	82	GLU	2.6
42	BV	62	LEU	2.6
25	BA	1066	U	2.6
26	BB	54	G	2.6
18	AP	26	ARG	2.6
28	BE	204	ALA	2.6
38	BR	2	ARG	2.6
4	CB	27	LYS	2.6
28	DE	1	MET	2.6
15	CM	61	GLU	2.6
44	BX	33	LYS	2.6
51	D4	65	CYS	2.6
19	CQ	72	ARG	2.6
28	DE	3	GLY	2.6
39	BS	84	GLN	2.6
35	BO	42	SER	2.6
39	DS	67	ARG	2.6
48	B1	18	ILE	2.6
1	CA	1519	A	2.6
3	AV	15	A	2.6
42	DV	16	PRO	2.6
4	CB	160	ASP	2.6
21	AS	32	LYS	2.6
24	AX	24	VAL	2.6
37	BQ	81	VAL	2.6
44	DX	6	ASP	2.6
20	AR	44	LEU	2.6
47	B0	59	LEU	2.6
1	CA	386	C	2.6
6	AD	115	ARG	2.6
14	AL	28	GLY	2.6
25	BA	2700	C	2.6
26	DB	12	C	2.6
40	DT	136	GLN	2.6
1	AA	1358	U	2.6
5	CC	195	VAL	2.6
31	BH	125	VAL	2.6

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Mol	Chain	Res	Type	RSRZ
9	AG	84	ASN	2.6
32	DI	60	GLU	2.6
38	BR	54	LEU	2.6
6	CD	115	ARG	2.6
9	CG	34	GLY	2.6
25	BA	2833	G	2.6
28	BE	149	ARG	2.6
30	DG	65	GLY	2.6
15	CM	25	ILE	2.6
18	CP	12	LYS	2.6
46	BZ	113	ALA	2.6
29	DF	36	VAL	2.6
31	DH	131	VAL	2.6
25	BA	2189	U	2.6
8	AF	7	ASN	2.5
8	CF	47	ARG	2.5
25	DA	2406	U	2.6
28	DE	52	LEU	2.5
30	DG	82	LEU	2.5
9	AG	28	ASN	2.5
28	BE	54	GLN	2.5
13	AK	41	THR	2.5
20	CR	82	THR	2.5
25	DA	2319	G	2.5
11	CI	50	LEU	2.5
12	CJ	16	LEU	2.5
25	DA	1080	C	2.5
25	DA	2146	C	2.5
42	BV	90	PRO	2.5
48	B1	41	ARG	2.5
24	AX	73	MET	2.5
33	DJ	56	ASN	2.5
42	DV	48	GLY	2.5
31	DH	72	ILE	2.5
39	BS	39	ILE	2.5
40	BT	50	ILE	2.5
6	CD	10	ARG	2.5
18	AP	51	VAL	2.5
24	CX	10	GLU	2.5
25	DA	1095	A	2.5
25	DA	2176	A	2.5
30	BG	115	ARG	2.5

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Mol	Chain	Res	Type	RSRZ
33	DJ	60	ARG	2.5
41	BU	24	TYR	2.5
45	BY	20	TYR	2.5
7	CE	136	MET	2.5
19	AQ	87	LYS	2.5
32	DI	69	LYS	2.5
1	CA	1283	G	2.5
25	DA	1758	G	2.5
27	BD	167	GLY	2.5
7	CE	34	VAL	2.5
11	AI	5	TYR	2.5
44	BX	30	VAL	2.5
6	CD	61	LYS	2.5
27	BD	61	LEU	2.5
34	DN	114	LEU	2.5
42	BV	85	LYS	2.5
55	D8	12	LYS	2.5
11	AI	71	SER	2.5
18	AP	23	ASP	2.5
1	CA	309	G	2.5
2	CZ	19	G	2.5
6	AD	32	ALA	2.5
17	CO	13	GLN	2.5
25	BA	1386	C	2.5
25	BA	2112	G	2.5
33	BJ	20	ALA	2.5
36	BP	124	LYS	2.5
39	BS	87	PHE	2.5
46	BZ	6	LYS	2.5
46	DZ	178	GLU	2.5
4	CB	44	LEU	2.5
21	CS	15	LEU	2.5
28	BE	156	MET	2.5
28	BE	193	GLY	2.5
5	CC	202	ILE	2.5
32	DI	109	ILE	2.5
4	CB	135	GLN	2.5
29	BF	161	GLU	2.5
30	BG	26	GLN	2.5
44	BX	25	LYS	2.5
2	CZ	20	U	2.5
5	CC	184	TYR	2.5

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Mol	Chain	Res	Type	RSRZ
21	AS	15	LEU	2.5
25	BA	2294	C	2.5
31	BH	164	TYR	2.5
53	B6	43	CYS	2.5
16	AN	38	GLY	2.5
32	DI	1	MET	2.5
10	CH	6	ILE	2.5
18	AP	66	PRO	2.5
38	DR	39	PRO	2.5
31	BH	85	LYS	2.5
5	AC	56	ASP	2.5
28	BE	187	ALA	2.5
38	DR	76	VAL	2.5
48	D1	14	VAL	2.5
24	AX	152	LEU	2.5
55	D8	10	ALA	2.5
3	AV	13	A	2.5
38	DR	21	TYR	2.5
1	CA	186(A)	C	2.5
5	CC	205	GLY	2.5
24	CX	226	GLY	2.5
25	BA	2136	C	2.5
29	BF	44	ARG	2.5
47	D0	48	GLY	2.5
12	CJ	57	LYS	2.5
1	CA	1323	G	2.5
4	AB	112	VAL	2.5
4	AB	230	VAL	2.5
12	CJ	34	VAL	2.5
16	AN	53	LEU	2.5
17	AO	32	LEU	2.5
10	AH	81	HIS	2.5
18	CP	58	TYR	2.5
24	CX	253	GLN	2.5
37	BQ	136	ALA	2.5
38	BR	19	ALA	2.5
38	BR	25	ALA	2.5
49	D2	64	LEU	2.5
24	CX	95	HIS	2.5
43	DW	22	ASP	2.5
40	BT	3	ARG	2.5
15	CM	95	GLY	2.5

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Mol	Chain	Res	Type	RSRZ
25	DA	1077	A	2.5
25	DA	2062	A	2.5
25	DA	2173	A	2.5
36	BP	46	LYS	2.5
37	BQ	85	LYS	2.5
54	B7	22	MET	2.5
2	CZ	3	C	2.5
16	AN	37	PHE	2.5
32	DI	144	VAL	2.5
47	B0	38	VAL	2.5
34	DN	130	LEU	2.5
10	CH	94	TYR	2.5
11	CI	104	ARG	2.5
18	CP	72	ARG	2.5
38	BR	45	ARG	2.5
10	CH	90	GLY	2.5
11	AI	34	ASN	2.5
25	DA	1573	G	2.5
27	BD	4	LYS	2.5
28	DE	186	GLY	2.5
40	BT	55	ASN	2.5
7	CE	80	ILE	2.5
1	CA	1256	A	2.5
21	CS	51	VAL	2.5
25	BA	1590	U	2.5
6	AD	31	CYS	2.5
9	CG	101	LEU	2.5
30	BG	142	PRO	2.5
36	DP	10	PRO	2.5
38	BR	73	VAL	2.5
32	DI	33	ARG	2.5
33	BJ	62	ALA	2.5
39	BS	48	LEU	2.5
13	CK	28	THR	2.5
31	BH	155	SER	2.5
44	BX	77	LYS	2.5
30	BG	86	MET	2.5
47	D0	12	ASN	2.5
24	AX	69	GLU	2.5
37	BQ	38	GLU	2.5
42	BV	93	GLU	2.5
1	CA	1033	G	2.5

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Mol	Chain	Res	Type	RSRZ
6	AD	58	LEU	2.5
6	CD	120	LEU	2.5
29	DF	168	ARG	2.5
32	BI	57	ARG	2.5
25	DA	405	U	2.5
36	BP	81	GLN	2.5
48	B1	42	GLN	2.5
55	D8	29	LYS	2.5
24	AX	305	TYR	2.5
1	AA	1369	C	2.5
22	CT	71	THR	2.5
31	BH	93	GLY	2.5
24	CX	300	GLU	2.5
33	DJ	5	ARG	2.5
44	DX	21	PHE	2.5
4	CB	140	HIS	2.4
25	DA	1062	G	2.4
1	AA	1451	A	2.4
2	CZ	35	A	2.4
10	CH	4	ASP	2.4
27	BD	40	THR	2.4
30	BG	39	ILE	2.4
36	BP	144	GLU	2.4
27	BD	35	LYS	2.4
47	D0	21	LEU	2.4
22	AT	67	ALA	2.4
27	DD	246	PRO	2.4
4	AB	68	ILE	2.4
15	AM	114	ARG	2.4
28	BE	111	ARG	2.4
36	DP	114	ILE	2.4
55	B8	34	TRP	2.4
22	CT	56	MET	2.4
4	CB	145	LEU	2.4
6	AD	64	LEU	2.4
17	CO	66	LEU	2.4
29	DF	170	LEU	2.4
32	DI	9	LEU	2.4
51	D4	63	SER	2.4
25	DA	418	G	2.4
1	CA	401	C	2.4
16	AN	30	ALA	2.4

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Mol	Chain	Res	Type	RSRZ
25	BA	2062	A	2.4
4	CB	117	GLU	2.4
10	AH	86	ILE	2.4
12	CJ	38	ILE	2.4
16	AN	61	TRP	2.4
30	DG	18	GLU	2.4
43	BW	4	LYS	2.4
55	B8	44	LYS	2.4
5	CC	165	THR	2.4
7	CE	43	LEU	2.4
20	AR	66	LEU	2.4
25	DA	162	U	2.4
34	BN	117	HIS	2.4
30	DG	106	LEU	2.4
4	CB	37	ASN	2.4
24	AX	61	ALA	2.4
27	DD	272	ALA	2.4
50	D3	22	ALA	2.4
1	CA	558	G	2.4
2	AZ	61	C	2.4
6	AD	197	PRO	2.4
25	DA	2279	G	2.4
30	DG	84	LYS	2.4
33	DJ	22	GLY	2.4
6	CD	204	ILE	2.4
4	AB	105	PHE	2.4
33	BJ	13	LEU	2.4
55	B8	7	HIS	2.4
1	CA	229	U	2.4
21	CS	28	LYS	2.4
32	BI	45	LYS	2.4
49	B2	8	LYS	2.4
4	CB	236	TYR	2.4
10	CH	130	GLY	2.4
33	DJ	3	ASN	2.4
34	BN	92	GLN	2.4
44	BX	24	GLY	2.4
1	AA	90	C	2.4
1	AA	110	C	2.4
17	CO	43	LEU	2.4
18	AP	53	VAL	2.4
1	CA	1197	G	2.4

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Mol	Chain	Res	Type	RSRZ
1	CA	1267	C	2.4
25	BA	1092	C	2.4
25	DA	244	A	2.4
25	DA	1075	C	2.4
25	DA	1098	A	2.4
25	DA	2478	A	2.4
29	DF	32	LEU	2.4
30	BG	155	MET	2.4
27	DD	231	HIS	2.4
15	AM	108	ARG	2.4
17	CO	35	ARG	2.4
44	DX	64	LYS	2.4
1	CA	1040	U	2.4
25	BA	1454	U	2.4
32	BI	88	ILE	2.4
45	DY	64	GLU	2.4
40	DT	105	LEU	2.4
49	D2	63	VAL	2.4
5	AC	131	ARG	2.4
14	AL	88	ARG	2.4
30	BG	22	ARG	2.4
37	BQ	8	LYS	2.4
1	CA	385	C	2.4
25	BA	1098	A	2.4
25	DA	227	A	2.4
50	D3	51	ALA	2.4
2	AZ	33	U	2.4
8	AF	66	GLU	2.4
22	AT	71	THR	2.4
11	CI	36	TYR	2.4
25	DA	1534	G	2.4
38	BR	14	SER	2.4
40	BT	75	ILE	2.4
11	CI	108	VAL	2.4
19	AQ	57	VAL	2.4
27	BD	262	ARG	2.4
37	DQ	96	VAL	2.4
11	CI	70	LYS	2.4
16	AN	50	LYS	2.4
44	BX	74	PRO	2.4
16	CN	49	HIS	2.4
35	BO	45	GLU	2.4

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Mol	Chain	Res	Type	RSRZ
36	DP	74	GLU	2.4
37	BQ	86	GLY	2.4
39	DS	42	ASP	2.4
40	DT	25	GLY	2.4
1	AA	1398	A	2.4
4	CB	124	SER	2.4
6	CD	208	SER	2.4
46	BZ	66	SER	2.4
46	BZ	154	ASP	2.4
4	CB	142	LEU	2.4
6	CD	63	LYS	2.4
11	CI	99	LEU	2.4
24	CX	328	LEU	2.4
25	DA	1932	A	2.4
38	DR	95	THR	2.4
46	BZ	78	LYS	2.4
1	CA	306	G	2.4
1	CA	1031	G	2.4
25	BA	2872	G	2.4
32	DI	137	PRO	2.4
17	CO	50	HIS	2.4
29	BF	39	TRP	2.4
9	AG	34	GLY	2.4
15	CM	26	GLY	2.4
40	DT	71	GLY	2.4
16	CN	57	ARG	2.4
23	CU	13	ILE	2.4
4	AB	73	THR	2.4
6	CD	19	LEU	2.4
24	CX	290	LEU	2.4
41	DU	39	LEU	2.4
46	BZ	126	VAL	2.4
1	CA	719	C	2.4
28	DE	74	PRO	2.4
42	DV	1	MET	2.4
13	AK	117	ASN	2.4
1	AA	326	G	2.4
15	AM	115	LYS	2.4
22	CT	27	LYS	2.4
25	DA	2127	G	2.4
29	DF	26	ALA	2.4
4	CB	213	LEU	2.4

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Mol	Chain	Res	Type	RSRZ
10	CH	31	PHE	2.4
34	BN	126	VAL	2.4
42	DV	38	LEU	2.4
44	DX	30	VAL	2.4
45	DY	24	VAL	2.4
30	DG	99	MET	2.4
31	BH	41	MET	2.4
36	DP	42	SER	2.4
39	DS	27	SER	2.4
6	AD	136	PRO	2.4
1	AA	1019	C	2.4
2	CZ	23	C	2.4
25	DA	1760	A	2.4
25	DA	2169	A	2.4
27	BD	224	ALA	2.4
40	DT	46	GLU	2.4
46	BZ	186	GLU	2.4
46	DZ	79	ARG	2.4
5	AC	12	LEU	2.4
20	CR	44	LEU	2.4
40	DT	75	ILE	2.4
1	AA	1033	G	2.3
25	DA	2133	G	2.3
25	DA	2141	G	2.3
27	DD	89	SER	2.3
31	BH	56	SER	2.3
28	BE	8	LYS	2.3
32	BI	69	LYS	2.3
42	DV	74	LYS	2.3
55	B8	5	LYS	2.3
1	CA	375	U	2.3
5	CC	159	GLY	2.3
5	CC	206	GLU	2.3
18	AP	63	GLY	2.3
19	AQ	48	GLU	2.3
30	BG	69	ALA	2.3
1	AA	1327	C	2.3
1	CA	1226	C	2.3
5	CC	182	ILE	2.3
31	BH	61	HIS	2.3
30	BG	38	VAL	2.3
33	DJ	66	LEU	2.3

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Mol	Chain	Res	Type	RSRZ
38	BR	10	LEU	2.3
48	B1	60	PHE	2.3
28	DE	152	LYS	2.3
4	CB	233	SER	2.3
30	BG	96	ARG	2.3
7	AE	7	GLU	2.3
12	CJ	25	GLU	2.3
39	BS	21	THR	2.3
52	B5	28	PRO	2.3
1	CA	105	G	2.3
55	D8	51	ALA	2.3
21	CS	60	VAL	2.3
46	DZ	121	HIS	2.3
1	CA	136(B)	C	2.3
6	AD	209	ARG	2.3
27	DD	13	ARG	2.3
29	DF	188	ARG	2.3
30	DG	96	ARG	2.3
35	DO	109	LYS	2.3
38	DR	17	ARG	2.3
41	DU	37	GLU	2.3
21	CS	72	GLY	2.3
45	DY	18	GLY	2.3
4	CB	13	ALA	2.3
7	CE	28	PHE	2.3
18	AP	6	LEU	2.3
6	AD	77	ASN	2.3
13	CK	119	CYS	2.3
27	DD	270	ILE	2.3
30	BG	106	LEU	2.3
37	BQ	131	ILE	2.3
43	BW	36	LEU	2.3
47	D0	62	LEU	2.3
15	CM	106	ASN	2.3
51	B4	44	CYS	2.3
27	BD	255	LYS	2.3
34	DN	144	LYS	2.3
45	DY	19	LYS	2.3
1	AA	755	G	2.3
1	CA	1351	U	2.3
5	AC	190	ARG	2.3
6	CD	14	ARG	2.3

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Mol	Chain	Res	Type	RSRZ
12	CJ	70	ARG	2.3
25	BA	425	G	2.3
25	BA	1033	U	2.3
25	BA	1591	G	2.3
28	BE	16	ARG	2.3
29	BF	45	ARG	2.3
1	AA	1325	C	2.3
16	AN	55	GLY	2.3
25	BA	2137	C	2.3
25	DA	1118	C	2.3
46	BZ	162	GLU	2.3
42	BV	86	GLY	2.3
44	DX	61	GLY	2.3
1	CA	1289	A	2.3
11	AI	49	PRO	2.3
12	CJ	41	PRO	2.3
25	DA	2892	A	2.3
31	BH	38	SER	2.3
27	DD	173	VAL	2.3
32	DI	78	THR	2.3
45	DY	16	ALA	2.3
34	BN	89	LYS	2.3
55	B8	59	LYS	2.3
32	DI	11	ASN	2.3
34	BN	153	HIS	2.3
49	D2	7	ARG	2.3
1	CA	1148	U	2.3
15	CM	24	GLY	2.3
34	BN	104	GLY	2.3
36	DP	73	GLY	2.3
1	CA	380	G	2.3
25	BA	274	G	2.3
25	BA	2141	G	2.3
25	DA	410	G	2.3
25	DA	1933	G	2.3
1	CA	307	C	2.3
27	BD	64	ILE	2.3
55	D8	26	LYS	2.3
10	CH	24	THR	2.3
24	AX	33	SER	2.3
46	BZ	90	VAL	2.3
50	B3	58	VAL	2.3

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Mol	Chain	Res	Type	RSRZ
4	AB	16	HIS	2.3
18	CP	48	TRP	2.3
30	BG	130	ASN	2.3
4	AB	231	GLU	2.3
4	AB	72	GLY	2.3
42	DV	86	GLY	2.3
4	CB	187	LEU	2.3
8	AF	101	ALA	2.3
19	AQ	92	ARG	2.3
20	CR	79	LEU	2.3
27	BD	2	ALA	2.3
28	DE	182	LEU	2.3
31	BH	75	ALA	2.3
33	BJ	58	LEU	2.3
34	BN	77	VAL	2.3
37	DQ	102	VAL	2.3
44	BX	81	VAL	2.3
1	AA	1185	G	2.3
6	CD	152	SER	2.3
25	DA	2157	G	2.3
25	DA	2295	C	2.3
24	CX	174	GLU	2.3
1	AA	655	A	2.3
8	CF	8	ILE	2.3
22	CT	55	ILE	2.3
1	AA	229	U	2.3
1	CA	84	U	2.3
32	BI	21	VAL	2.3
35	DO	16	ALA	2.3
4	CB	168	THR	2.3
7	AE	135	THR	2.3
13	AK	25	TYR	2.3
24	CX	305	TYR	2.3
15	AM	40	ASN	2.3
18	CP	26	ARG	2.3
25	DA	1640	C	2.3
19	CQ	84	LEU	2.3
25	BA	1555	G	2.3
32	DI	138	ILE	2.3
39	DS	26	LEU	2.3
1	CA	1287	A	2.3
48	B1	15	ALA	2.3

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Mol	Chain	Res	Type	RSRZ
12	CJ	17	ASP	2.3
19	AQ	34	LYS	2.3
24	CX	301	LYS	2.3
25	BA	1113	U	2.3
6	AD	54	TYR	2.3
11	AI	35	GLU	2.3
20	AR	42	ARG	2.3
21	AS	80	TYR	2.3
28	BE	79	ARG	2.3
37	DQ	13	GLN	2.3
43	DW	25	ARG	2.3
53	B6	44	ARG	2.3
4	CB	99	GLY	2.3
50	D3	53	LEU	2.3
1	CA	744	C	2.3
15	AM	25	ILE	2.3
34	DN	69	VAL	2.3
36	BP	120	ALA	2.3
46	DZ	188	ALA	2.3
52	B5	31	VAL	2.3
9	AG	35	LYS	2.3
1	CA	220	G	2.3
1	AA	1324	A	2.3
24	CX	216	GLU	2.3
25	DA	1089	G	2.3
25	DA	2151	G	2.3
25	BA	244	A	2.3
30	BG	137	GLU	2.3
44	BX	23	GLU	2.3
7	CE	78	HIS	2.3
8	CF	18	GLN	2.3
16	AN	51	GLY	2.3
32	DI	139	GLN	2.3
34	DN	140	PHE	2.3
38	DR	80	PHE	2.3
45	DY	58	GLY	2.3
4	AB	168	THR	2.3
14	AL	48	ASN	2.3
24	CX	157	LYS	2.3
32	DI	2	LYS	2.3
40	DT	94	ALA	2.3
1	CA	754	C	2.3

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Mol	Chain	Res	Type	RSRZ
6	AD	132	ARG	2.3
43	DW	2	GLU	2.3
13	AK	75	TYR	2.3
4	CB	38	GLY	2.3
25	DA	2131	G	2.3
41	BU	18	LEU	2.3
55	D8	61	LEU	2.3
25	DA	1509	A	2.3
24	CX	235	THR	2.3
29	DF	114	VAL	2.3
36	DP	76	LYS	2.3
41	DU	22	LYS	2.3
48	D1	35	THR	2.3
6	CD	81	GLU	2.2
31	BH	154	PRO	2.2
31	DH	126	PRO	2.2
7	AE	121	LYS	2.2
37	DQ	8	LYS	2.2
7	CE	33	VAL	2.2
27	BD	113	VAL	2.2
7	CE	143	ARG	2.2
1	AA	974	A	2.2
1	CA	228	A	2.2
1	CA	332	G	2.2
12	CJ	76	ASN	2.2
20	AR	46	GLU	2.2
24	CX	252	CYS	2.2
25	BA	1643	G	2.2
25	BA	2131	G	2.2
25	DA	2158	A	2.2
29	DF	190	GLU	2.2
46	DZ	190	GLU	2.2
24	AX	190	GLY	2.2
31	DH	163	TYR	2.2
53	B6	10	LEU	2.2
54	B7	18	PHE	2.2
7	CE	19	MET	2.2
19	AQ	19	VAL	2.2
34	DN	92	GLN	2.2
34	DN	126	VAL	2.2
34	DN	142	ARG	2.2
37	BQ	102	VAL	2.2

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Mol	Chain	Res	Type	RSRZ
40	DT	112	ARG	2.2
47	B0	17	GLN	2.2
51	B4	36	VAL	2.2
19	AQ	86	GLU	2.2
24	CX	110	GLU	2.2
30	DG	29	TRP	2.2
20	AR	47	THR	2.2
21	CS	79	THR	2.2
45	DY	33	LYS	2.2
14	AL	63	TYR	2.2
15	AM	56	LEU	2.2
27	DD	167	GLY	2.2
29	BF	124	LEU	2.2
34	DN	139	LEU	2.2
47	B0	69	PHE	2.2
1	CA	138	G	2.2
12	AJ	38	ILE	2.2
15	CM	10	PRO	2.2
13	CK	62	GLN	2.2
28	DE	168	MET	2.2
35	DO	62	VAL	2.2
39	BS	65	VAL	2.2
39	BS	68	GLN	2.2
44	BX	68	ARG	2.2
47	D0	20	ARG	2.2
55	D8	4	MET	2.2
5	CC	24	ALA	2.2
44	DX	31	HIS	2.2
30	DG	30	GLU	2.2
1	CA	1397	C	2.2
25	BA	867	C	2.2
25	BA	2177	C	2.2
34	DN	112	LYS	2.2
55	B8	3	LYS	2.2
6	AD	11	LEU	2.2
6	CD	23	GLY	2.2
7	CE	130	ASN	2.2
22	AT	53	LEU	2.2
22	AT	79	ARG	2.2
28	BE	15	PHE	2.2
30	DG	7	LEU	2.2
39	DS	97	ARG	2.2

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Mol	Chain	Res	Type	RSRZ
10	AH	57	PRO	2.2
11	CI	87	GLN	2.2
15	CM	22	ILE	2.2
21	CS	31	ILE	2.2
25	BA	1057	A	2.2
30	DG	166	ASP	2.2
37	DQ	94	VAL	2.2
49	B2	6	VAL	2.2
13	CK	64	ALA	2.2
1	AA	1186	G	2.2
4	AB	139	LYS	2.2
24	AX	301	LYS	2.2
46	DZ	182	LYS	2.2
1	AA	992	U	2.2
15	AM	66	LEU	2.2
24	AX	311	ARG	2.2
24	CX	122	LEU	2.2
27	DD	6	PHE	2.2
34	DN	136	GLY	2.2
41	DU	79	PHE	2.2
25	DA	1575	C	2.2
42	DV	20	LEU	2.2
34	BN	68	ASN	2.2
14	CL	111	ASP	2.2
35	BO	21	CYS	2.2
40	BT	97	ALA	2.2
1	AA	1349	A	2.2
4	CB	97	TRP	2.2
14	CL	18	ARG	2.2
25	BA	2170	A	2.2
41	BU	61	TRP	2.2
46	DZ	10	ARG	2.2
14	AL	92	LEU	2.2
1	CA	1373	G	2.2
13	CK	57	THR	2.2
14	AL	6	ILE	2.2
17	AO	69	TYR	2.2
32	BI	51	ILE	2.2
35	BO	65	THR	2.2
1	AA	88	C	2.2
1	AA	586	C	2.2
45	BY	71	LYS	2.2

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Mol	Chain	Res	Type	RSRZ
20	AR	67	ALA	2.2
27	DD	195	ALA	2.2
28	DE	82	ARG	2.2
31	DH	88	LEU	2.2
41	DU	87	GLY	2.2
27	DD	172	TYR	2.2
31	BH	45	VAL	2.2
38	BR	9	LYS	2.2
44	BX	18	TYR	2.2
24	CX	50	GLU	2.2
15	CM	94	ARG	2.2
28	BE	48	GLN	2.2
31	BH	60	ARG	2.2
1	AA	1326	C	2.2
1	CA	1113	C	2.2
21	AS	57	HIS	2.2
35	BO	12	ASP	2.2
5	AC	13	GLY	2.2
9	AG	12	LEU	2.2
41	BU	39	LEU	2.2
44	BX	57	LEU	2.2
11	AI	78	LYS	2.2
13	AK	29	ILE	2.2
24	AX	159	VAL	2.2
24	AX	77	GLU	2.2
1	AA	983	A	2.2
6	AD	73	ARG	2.2
25	BA	6	A	2.2
1	AA	1308	U	2.2
1	CA	1315	U	2.2
36	BP	63	PRO	2.2
39	DS	91	PRO	2.2
6	AD	101	LEU	2.2
30	BG	23	PHE	2.2
34	BN	49	LEU	2.2
44	DX	16	LYS	2.2
46	DZ	44	PHE	2.2
53	B6	36	LEU	2.2
4	CB	228	GLY	2.2
11	AI	69	GLY	2.2
22	AT	102	GLY	2.2
25	BA	2103	C	2.2

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Mol	Chain	Res	Type	RSRZ
6	CD	5	ILE	2.2
25	DA	10	G	2.2
25	DA	1071	G	2.2
34	BN	145	VAL	2.2
46	DZ	39	VAL	2.2
24	AX	12	TYR	2.2
37	DQ	28	ALA	2.2
10	CH	63	LEU	2.2
19	AQ	53	LEU	2.2
19	AQ	74	LEU	2.2
30	DG	141	PHE	2.2
41	BU	60	LEU	2.2
45	BY	66	PRO	2.2
46	DZ	104	PHE	2.2
49	B2	60	LEU	2.2
14	AL	100	VAL	2.2
30	BG	28	VAL	2.2
35	DO	114	ILE	2.2
38	BR	76	VAL	2.2
45	BY	15	VAL	2.2
4	AB	86	GLU	2.2
55	D8	16	ILE	2.2
4	AB	192	SER	2.2
11	AI	70	LYS	2.2
13	AK	71	LYS	2.2
28	BE	64	LYS	2.2
29	DF	151	SER	2.2
40	BT	65	LYS	2.2
7	CE	75	THR	2.2
32	DI	31	LEU	2.2
34	BN	46	LEU	2.2
34	BN	131	PRO	2.2
36	BP	130	PHE	2.2
49	B2	10	LEU	2.2
11	CI	69	GLY	2.2
41	DU	82	GLY	2.2
27	DD	64	ILE	2.2
29	DF	206	ILE	2.2
36	DP	126	VAL	2.2
37	BQ	82	ARG	2.2
25	DA	1460	A	2.1
48	D1	37	ILE	2.2

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Mol	Chain	Res	Type	RSRZ
24	AX	28	LYS	2.1
28	BE	151	TYR	2.1
1	CA	219	C	2.1
4	AB	115	LEU	2.1
17	CO	67	LEU	2.1
25	BA	2295	C	2.1
35	BO	11	ALA	2.1
44	BX	9	LEU	2.1
47	D0	18	ALA	2.1
36	BP	33	ARG	2.1
48	D1	28	GLY	2.1
9	AG	27	ILE	2.1
19	AQ	35	VAL	2.1
29	BF	133	ASN	2.1
24	AX	209	ASP	2.1
37	BQ	66	ILE	2.1
24	AX	38	TYR	2.1
40	DT	65	LYS	2.1
24	CX	249	MET	2.1
25	DA	2820	A	2.1
36	BP	127	ALA	2.1
1	CA	63	C	2.1
1	CA	224	C	2.1
6	AD	105	VAL	2.1
6	CD	51	PRO	2.1
6	CD	77	ASN	2.1
9	CG	50	ILE	2.1
13	AK	124	LYS	2.1
19	CQ	34	LYS	2.1
35	DO	12	ASP	2.1
1	CA	1365	G	2.1
16	CN	10	ALA	2.1
21	CS	29	ARG	2.1
25	BA	2149	G	2.1
22	CT	77	ALA	2.1
29	DF	167	ALA	2.1
1	CA	1248	A	2.1
1	CA	1349	A	2.1
2	AZ	35	A	2.1
5	CC	185	GLY	2.1
26	DB	53	A	2.1
27	BD	236	GLY	2.1

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Mol	Chain	Res	Type	RSRZ
36	DP	44	GLY	2.1
42	DV	63	GLY	2.1
43	DW	26	GLY	2.1
15	AM	98	VAL	2.1
24	CX	312	VAL	2.1
41	DU	65	ILE	2.1
1	AA	401	C	2.1
9	CG	84	ASN	2.1
25	BA	1080	C	2.1
45	DY	6	HIS	2.1
50	B3	26	LEU	2.1
55	D8	62	LEU	2.1
9	CG	11	GLN	2.1
10	CH	56	LYS	2.1
12	CJ	52	GLY	2.1
13	AK	86	GLY	2.1
25	DA	1082	U	2.1
10	AH	6	ILE	2.1
10	CH	13	ILE	2.1
19	AQ	73	VAL	2.1
35	BO	38	VAL	2.1
42	BV	5	VAL	2.1
1	CA	412	A	2.1
6	CD	47	ARG	2.1
6	CD	122	ARG	2.1
37	BQ	137	TYR	2.1
15	CM	19	LEU	2.1
29	DF	110	LEU	2.1
13	CK	51	LYS	2.1
9	AG	11	GLN	2.1
37	DQ	50	ALA	2.1
27	BD	145	VAL	2.1
35	DO	108	GLU	2.1
1	CA	62	U	2.1
27	BD	263	ARG	2.1
27	DD	183	ARG	2.1
1	CA	631	G	2.1
5	AC	184	TYR	2.1
18	CP	49	LEU	2.1
25	DA	232	G	2.1
29	DF	33	LEU	2.1
15	AM	106	ASN	2.1

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Mol	Chain	Res	Type	RSRZ
22	CT	76	ALA	2.1
24	AX	224	ALA	2.1
38	BR	59	ASP	2.1
43	DW	7	ALA	2.1
18	CP	51	VAL	2.1
25	DA	2804	C	2.1
31	BH	167	GLU	2.1
9	CG	94	ARG	2.1
29	DF	9	ILE	2.1
5	AC	87	LEU	2.1
15	CM	46	LYS	2.1
20	AR	85	LEU	2.1
35	BO	109	LYS	2.1
44	DX	57	LEU	2.1
45	BY	26	LYS	2.1
24	CX	237	SER	2.1
27	DD	233	HIS	2.1
29	DF	153	SER	2.1
35	BO	7	TYR	2.1
36	DP	25	SER	2.1
52	D5	30	LEU	2.1
11	CI	27	THR	2.1
17	AO	33	THR	2.1
1	AA	1023	G	2.1
16	CN	33	VAL	2.1
26	DB	109	G	2.1
47	B0	79	VAL	2.1
25	DA	1084	A	2.1
31	DH	148	ILE	2.1
1	CA	311	C	2.1
25	DA	1556	C	2.1
13	AK	121	PRO	2.1
25	BA	2332	U	2.1
17	CO	42	HIS	2.1
48	B1	71	TYR	2.1
7	AE	62	ALA	2.1
15	CM	85	GLY	2.1
22	AT	32	ALA	2.1
17	AO	29	VAL	2.1
22	AT	60	GLU	2.1
27	BD	237	GLU	2.1
40	BT	62	THR	2.1

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Mol	Chain	Res	Type	RSRZ
46	DZ	169	GLU	2.1
20	CR	49	LYS	2.1
35	DO	2	ILE	2.1
37	DQ	127	ILE	2.1
48	D1	23	LYS	2.1
1	CA	195	A	2.1
1	CA	731	G	2.1
1	CA	1520	G	2.1
25	DA	536	A	2.1
1	CA	824	C	2.1
10	CH	27	PRO	2.1
13	CK	121	PRO	2.1
24	AX	245	PRO	2.1
25	DA	2833	G	2.1
30	DG	32	PRO	2.1
35	DO	21	CYS	2.1
15	CM	91	ARG	2.1
8	CF	90	VAL	2.1
24	CX	121	ALA	2.1
40	BT	37	GLY	2.1
42	BV	65	GLY	2.1
23	AU	25	LYS	2.1
27	DD	113	VAL	2.1
37	DQ	71	ASP	2.1
40	BT	98	LYS	2.1
44	DX	72	LYS	2.1
29	DF	39	TRP	2.1
35	DO	82	ASN	2.1
14	AL	31	PHE	2.1
18	AP	73	LEU	2.1
32	DI	128	LEU	2.1
36	BP	135	LEU	2.1
38	BR	98	LEU	2.1
31	BH	42	ARG	2.1
38	BR	17	ARG	2.1
38	BR	26	LYS	2.1
41	BU	43	GLY	2.1
1	CA	387	U	2.1
12	CJ	96	ILE	2.1
16	CN	32	SER	2.1
24	CX	111	ILE	2.1
25	BA	2689	U	2.1

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Mol	Chain	Res	Type	RSRZ
25	DA	2612	C	2.1
26	DB	32	C	2.1
31	BH	151	ILE	2.1
35	BO	82	ASN	2.1
44	BX	3	THR	2.1
24	AX	307	PHE	2.1
44	DX	28	PHE	2.1
7	CE	133	TYR	2.1
4	CB	232	PRO	2.1
5	CC	148	GLY	2.1
22	CT	30	LYS	2.1
22	CT	58	LYS	2.1
27	DD	154	LYS	2.1
29	BF	207	GLY	2.1
31	BH	34	GLU	2.1
44	DX	78	LYS	2.1
45	BY	9	LYS	2.1
17	AO	30	ALA	2.1
46	BZ	189	ALA	2.1
7	CE	76	ILE	2.0
1	AA	93	U	2.0
25	DA	507	A	2.0
1	CA	381	C	2.0
1	AA	1197	G	2.0
1	CA	1127	G	2.0
6	AD	103	ASN	2.0
22	CT	26	ASN	2.0
55	D8	46	ARG	2.0
4	CB	148	TYR	2.0
10	AH	99	GLU	2.0
27	BD	42	GLY	2.0
30	BG	104	GLU	2.0
4	CB	177	ALA	2.0
8	AF	56	PRO	2.0
14	CL	30	PRO	2.0
30	DG	159	VAL	2.0
38	DR	85	PRO	2.0
41	DU	103	PRO	2.0
4	AB	235	SER	2.0
30	BG	152	LEU	2.0
46	DZ	157	LEU	2.0
48	B1	26	ARG	2.0

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Mol	Chain	Res	Type	RSRZ
14	AL	45	LYS	2.0
9	AG	24	THR	2.0
25	BA	243	U	2.0
34	BN	144	LYS	2.0
46	DZ	77	ASP	2.0
1	CA	88	C	2.0
25	BA	97	C	2.0
55	D8	9	GLY	2.0
10	CH	97	VAL	2.0
1	AA	41	G	2.0
22	CT	28	ALA	2.0
34	DN	76	VAL	2.0
37	DQ	54	MET	2.0
38	BR	101	ALA	2.0
44	BX	83	VAL	2.0
24	CX	98	PRO	2.0
43	DW	87	PRO	2.0
5	CC	10	PHE	2.0
15	AM	70	LEU	2.0
16	AN	36	PHE	2.0
16	AN	32	SER	2.0
11	CI	100	GLY	2.0
24	AX	142	THR	2.0
29	BF	53	THR	2.0
42	BV	67	GLY	2.0
6	CD	33	MET	2.0
7	AE	107	ARG	2.0
19	CQ	75	ARG	2.0
29	DF	112	MET	2.0
28	DE	138	PRO	2.0
39	BS	20	ARG	2.0
49	D2	69	ARG	2.0
7	AE	20	GLN	2.0
10	AH	63	LEU	2.0
10	AH	112	LEU	2.0
10	CH	119	LEU	2.0
19	AQ	93	GLN	2.0
2	AZ	19	G	2.0
4	AB	109	SER	2.0
7	AE	42	GLY	2.0
9	AG	45	ASP	2.0
27	DD	230	ASP	2.0

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Mol	Chain	Res	Type	RSRZ
41	DU	118	GLY	2.0
5	AC	201	TYR	2.0
9	CG	83	ALA	2.0
10	AH	69	ARG	2.0
15	AM	88	ARG	2.0
17	CO	11	VAL	2.0
44	BX	76	ARG	2.0
45	DY	55	TYR	2.0
18	CP	77	ALA	2.0
30	DG	74	LYS	2.0
52	B5	37	LYS	2.0
6	AD	96	LEU	2.0
7	CE	45	PHE	2.0
32	DI	30	LEU	2.0
44	DX	11	PRO	2.0
47	B0	47	PRO	2.0
55	B8	63	PRO	2.0
1	CA	121	C	2.0
1	CA	225	C	2.0
25	BA	2804	C	2.0
25	DA	393	C	2.0
25	DA	2477	C	2.0
51	B4	49	GLU	2.0
6	CD	84	LYS	2.0
12	CJ	24	VAL	2.0
24	AX	242	VAL	2.0
45	DY	37	VAL	2.0
54	D7	38	GLY	2.0
31	BH	80	SER	2.0
10	CH	109	ILE	2.0
25	DA	1059	G	2.0
27	DD	247	ALA	2.0
38	BR	23	ASN	2.0
4	CB	55	PHE	2.0
24	CX	266	LEU	2.0
29	BF	181	LEU	2.0

6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates ⓘ

There are no carbohydrates in this entry.

6.4 Ligands ⓘ

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å ²)	Q<0.9
56	MG	BA	3775	1/1	0.95	0.95	25.52	49,49,49,49	0
56	MG	DA	3673	1/1	0.70	1.03	24.28	65,65,65,65	0
56	MG	CA	1963	1/1	0.94	0.55	15.51	35,35,35,35	0
56	MG	CX	406	1/1	0.83	1.59	10.58	71,71,71,71	0
56	MG	AA	1834	1/1	0.93	0.60	8.91	36,36,36,36	0
56	MG	DA	3729	1/1	0.96	0.53	8.14	50,50,50,50	0
56	MG	DA	3417	1/1	0.93	0.33	7.75	53,53,53,53	0
56	MG	DA	3661	1/1	0.52	1.24	7.68	80,80,80,80	0
56	MG	BA	3011	1/1	0.97	0.41	7.17	33,33,33,33	0
56	MG	DA	3726	1/1	0.99	0.33	7.14	34,34,34,34	0
56	MG	CA	1930	1/1	0.76	0.59	7.07	57,57,57,57	0
56	MG	CA	1982	1/1	0.87	0.56	5.77	63,63,63,63	0
56	MG	DA	3254	1/1	0.98	0.28	5.62	35,35,35,35	0
56	MG	CA	1983	1/1	0.97	0.42	5.60	50,50,50,50	0
56	MG	AY	105	1/1	0.96	0.28	5.31	64,64,64,64	0
56	MG	CY	113	1/1	0.94	0.68	4.75	39,39,39,39	0
56	MG	BA	3380	1/1	0.86	0.28	4.60	56,56,56,56	0
56	MG	BA	3169	1/1	0.94	0.21	4.50	26,26,26,26	0
56	MG	DA	3679	1/1	0.84	0.46	4.43	62,62,62,62	0
56	MG	BA	3796	1/1	0.97	0.24	3.74	27,27,27,27	0
56	MG	DA	3283	1/1	0.94	0.29	3.30	36,36,36,36	0
56	MG	BA	3708	1/1	0.78	0.32	3.10	60,60,60,60	0
56	MG	AA	1861	1/1	0.94	0.72	3.09	60,60,60,60	0
56	MG	DA	3688	1/1	0.94	0.27	3.06	63,63,63,63	0
56	MG	CA	1615	1/1	0.69	0.34	3.05	55,55,55,55	0
56	MG	AD	304	1/1	0.82	0.56	3.04	50,50,50,50	0
56	MG	DA	3256	1/1	0.94	0.26	2.95	37,37,37,37	0
56	MG	DA	3430	1/1	0.92	0.17	2.89	56,56,56,56	0
56	MG	AA	1844	1/1	0.83	0.37	2.85	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	AA	1756	1/1	0.95	0.34	2.72	38,38,38,38	0
56	MG	BA	3481	1/1	0.95	0.34	2.67	45,45,45,45	0
56	MG	DA	3721	1/1	0.97	0.27	2.63	11,11,11,11	0
56	MG	AA	1802	1/1	0.93	0.23	2.36	56,56,56,56	0
56	MG	CA	1800	1/1	0.95	0.29	2.34	30,30,30,30	0
56	MG	CA	1624	1/1	0.97	0.36	2.27	54,54,54,54	0
56	MG	AA	1645	1/1	0.98	0.23	2.21	31,31,31,31	0
56	MG	BA	3597	1/1	0.96	0.47	2.18	40,40,40,40	0
56	MG	DA	3637	1/1	0.94	0.46	2.17	66,66,66,66	0
56	MG	BA	3606	1/1	0.95	0.36	1.97	54,54,54,54	0
56	MG	DA	3696	1/1	0.96	0.23	1.85	76,76,76,76	0
56	MG	DA	3429	1/1	0.97	0.36	1.84	48,48,48,48	0
56	MG	DA	3754	1/1	0.84	0.27	1.84	59,59,59,59	0
56	MG	BA	3024	1/1	0.99	0.27	1.72	37,37,37,37	0
56	MG	BA	3370	1/1	0.97	0.28	1.67	24,24,24,24	0
56	MG	DA	3184	1/1	0.81	0.21	1.64	22,22,22,22	0
56	MG	DA	3263	1/1	0.88	0.19	1.61	22,22,22,22	0
56	MG	DA	3452	1/1	0.96	0.35	1.49	25,25,25,25	0
56	MG	CA	1862	1/1	0.83	0.27	1.37	71,71,71,71	0
56	MG	DA	3025	1/1	0.97	0.21	1.32	24,24,24,24	0
56	MG	BA	3762	1/1	0.95	0.53	1.19	35,35,35,35	0
56	MG	BR	202	1/1	0.79	0.55	1.17	61,61,61,61	0
56	MG	AA	1666	1/1	0.97	0.30	1.12	34,34,34,34	0
56	MG	DA	3576	1/1	0.98	0.25	1.10	18,18,18,18	0
56	MG	DA	3689	1/1	0.98	0.21	1.08	45,45,45,45	0
56	MG	BA	3577	1/1	0.97	0.21	1.06	17,17,17,17	0
56	MG	AA	1883	1/1	0.98	0.22	1.06	21,21,21,21	0
56	MG	BA	3697	1/1	0.88	0.28	1.05	40,40,40,40	0
56	MG	AA	1857	1/1	0.96	0.17	0.99	41,41,41,41	0
56	MG	CA	1941	1/1	0.96	0.41	0.96	34,34,34,34	0
56	MG	CY	106	1/1	0.97	0.17	0.89	35,35,35,35	0
56	MG	DA	3750	1/1	0.93	0.33	0.89	47,47,47,47	0
56	MG	DA	3236	1/1	0.98	0.31	0.88	14,14,14,14	0
56	MG	BA	3087	1/1	0.88	0.17	0.84	30,30,30,30	0
56	MG	DA	3279	1/1	0.96	0.18	0.76	20,20,20,20	0
56	MG	CA	2007	1/1	0.92	0.30	0.72	60,60,60,60	0
56	MG	BA	3455	1/1	0.93	0.24	0.65	46,46,46,46	0
56	MG	AA	1868	1/1	0.91	0.37	0.62	41,41,41,41	0
56	MG	DA	3234	1/1	0.97	0.27	0.59	8,8,8,8	0
56	MG	DA	3536	1/1	0.98	0.18	0.58	35,35,35,35	0
56	MG	CA	1893	1/1	0.99	0.27	0.51	23,23,23,23	0
56	MG	B7	101	1/1	0.94	0.27	0.50	24,24,24,24	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	BA	3178	1/1	0.86	0.21	0.47	39,39,39,39	0
56	MG	CA	1696	1/1	0.96	0.25	0.46	54,54,54,54	0
56	MG	BG	203	1/1	0.89	0.35	0.41	54,54,54,54	0
56	MG	BA	3389	1/1	0.95	0.16	0.38	33,33,33,33	0
56	MG	DA	3144	1/1	0.97	0.24	0.34	11,11,11,11	0
56	MG	DA	3561	1/1	0.99	0.21	0.33	19,19,19,19	0
56	MG	CA	1861	1/1	0.97	0.20	0.27	64,64,64,64	0
56	MG	DA	3654	1/1	0.86	0.32	0.27	41,41,41,41	0
56	MG	DA	3021	1/1	0.97	0.27	0.18	2,2,2,2	0
56	MG	BA	3333	1/1	0.97	0.22	0.18	19,19,19,19	0
56	MG	CA	1686	1/1	0.97	0.29	0.17	29,29,29,29	0
56	MG	BA	3039	1/1	0.85	0.21	0.17	33,33,33,33	0
56	MG	CA	1856	1/1	0.92	0.27	0.14	78,78,78,78	0
56	MG	BA	3620	1/1	0.98	0.28	0.13	49,49,49,49	0
56	MG	CA	1885	1/1	0.92	0.19	0.13	72,72,72,72	0
56	MG	BA	3647	1/1	0.97	0.30	0.12	20,20,20,20	0
56	MG	BA	3665	1/1	0.84	0.29	0.12	46,46,46,46	0
56	MG	BA	3760	1/1	0.98	0.19	0.11	40,40,40,40	0
56	MG	DA	3302	1/1	0.88	0.25	0.10	31,31,31,31	0
56	MG	AA	1823	1/1	0.96	0.24	0.08	32,32,32,32	0
56	MG	B1	102	1/1	0.97	0.24	0.07	24,24,24,24	0
56	MG	DA	3093	1/1	0.87	0.24	0.05	23,23,23,23	0
56	MG	CA	1954	1/1	0.97	0.23	-0.00	22,22,22,22	0
56	MG	BA	3055	1/1	0.96	0.18	-0.01	27,27,27,27	0
56	MG	CC	306	1/1	0.92	0.40	-0.03	52,52,52,52	0
56	MG	BA	3192	1/1	0.97	0.23	-0.04	20,20,20,20	0
56	MG	DA	3177	1/1	0.99	0.32	-0.06	3,3,3,3	0
56	MG	BA	3028	1/1	0.97	0.21	-0.08	10,10,10,10	0
56	MG	DA	3458	1/1	0.90	0.21	-0.14	44,44,44,44	0
56	MG	BA	3263	1/1	0.96	0.18	-0.16	0,0,0,0	0
56	MG	BA	3554	1/1	0.95	0.22	-0.18	19,19,19,19	0
56	MG	AA	1851	1/1	0.97	0.15	-0.20	50,50,50,50	0
56	MG	DB	208	1/1	0.94	0.20	-0.22	39,39,39,39	0
56	MG	BA	3484	1/1	0.91	0.16	-0.25	23,23,23,23	0
56	MG	DA	3113	1/1	0.96	0.26	-0.26	13,13,13,13	0
56	MG	AP	101	1/1	0.94	0.25	-0.26	32,32,32,32	0
56	MG	DA	3634	1/1	0.91	0.17	-0.28	58,58,58,58	0
56	MG	DA	3273	1/1	0.98	0.19	-0.30	0,0,0,0	0
56	MG	AA	1830	1/1	0.99	0.17	-0.31	35,35,35,35	0
56	MG	BA	3049	1/1	0.95	0.15	-0.35	17,17,17,17	0
56	MG	BA	3299	1/1	0.94	0.17	-0.36	44,44,44,44	0
56	MG	DA	3251	1/1	0.96	0.23	-0.37	16,16,16,16	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	BY	201	1/1	0.97	0.39	-0.39	36,36,36,36	0
56	MG	BA	3386	1/1	0.96	0.18	-0.40	38,38,38,38	0
56	MG	DA	3355	1/1	0.92	0.18	-0.41	39,39,39,39	0
56	MG	DA	3003	1/1	0.94	0.17	-0.42	33,33,33,33	0
56	MG	DB	225	1/1	0.92	0.17	-0.45	34,34,34,34	0
56	MG	BA	3116	1/1	0.97	0.14	-0.45	68,68,68,68	0
56	MG	CA	1967	1/1	0.89	0.21	-0.49	60,60,60,60	0
56	MG	BA	3632	1/1	0.92	0.18	-0.50	50,50,50,50	0
56	MG	BA	3624	1/1	0.94	0.25	-0.50	82,82,82,82	0
56	MG	DA	3013	1/1	0.94	0.16	-0.50	23,23,23,23	0
56	MG	DA	3731	1/1	0.91	0.14	-0.51	60,60,60,60	0
56	MG	DA	3371	1/1	0.95	0.16	-0.51	33,33,33,33	0
56	MG	AA	1637	1/1	0.97	0.20	-0.54	32,32,32,32	0
56	MG	CX	408	1/1	0.96	0.21	-0.54	44,44,44,44	0
56	MG	BF	303	1/1	0.99	0.24	-0.54	37,37,37,37	0
56	MG	CA	2008	1/1	0.97	0.44	-0.56	53,53,53,53	0
56	MG	BA	3223	1/1	0.99	0.20	-0.57	9,9,9,9	0
56	MG	DP	206	1/1	0.98	0.15	-0.58	33,33,33,33	0
56	MG	DA	3005	1/1	0.99	0.17	-0.58	1,1,1,1	0
56	MG	DA	3485	1/1	0.98	0.22	-0.62	10,10,10,10	0
56	MG	BA	3790	1/1	0.91	0.13	-0.64	75,75,75,75	0
56	MG	DA	3531	1/1	0.98	0.13	-0.65	39,39,39,39	0
56	MG	BA	3717	1/1	0.95	0.15	-0.67	40,40,40,40	0
56	MG	DA	3406	1/1	0.96	0.22	-0.67	33,33,33,33	0
56	MG	BA	3654	1/1	0.93	0.16	-0.68	40,40,40,40	0
56	MG	BB	221	1/1	0.89	0.25	-0.69	37,37,37,37	0
56	MG	AC	301	1/1	0.97	0.15	-0.69	41,41,41,41	0
56	MG	DA	3295	1/1	0.97	0.20	-0.71	37,37,37,37	0
56	MG	DA	3074	1/1	0.96	0.12	-0.71	19,19,19,19	0
56	MG	DA	3008	1/1	0.99	0.15	-0.74	9,9,9,9	0
56	MG	DX	101	1/1	0.95	0.19	-0.75	50,50,50,50	0
56	MG	DA	3488	1/1	0.99	0.20	-0.76	10,10,10,10	0
56	MG	DA	3519	1/1	0.99	0.14	-0.76	6,6,6,6	0
56	MG	AD	305	1/1	0.96	0.21	-0.76	52,52,52,52	0
56	MG	CA	1912	1/1	0.97	0.13	-0.77	45,45,45,45	0
56	MG	AY	109	1/1	0.81	0.14	-0.78	63,63,63,63	0
56	MG	BA	3127	1/1	0.96	0.16	-0.79	38,38,38,38	0
56	MG	DA	3054	1/1	0.96	0.20	-0.80	2,2,2,2	0
56	MG	BA	3473	1/1	0.98	0.11	-0.82	35,35,35,35	0
56	MG	BA	3519	1/1	0.92	0.14	-0.82	38,38,38,38	0
56	MG	AA	1621	1/1	0.98	0.13	-0.83	15,15,15,15	0
56	MG	BA	3058	1/1	0.97	0.14	-0.85	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	DA	3030	1/1	0.94	0.10	-0.85	17,17,17,17	0
56	MG	AA	1741	1/1	0.93	0.14	-0.89	32,32,32,32	0
56	MG	BA	3273	1/1	0.95	0.15	-0.90	17,17,17,17	0
56	MG	DA	3271	1/1	0.90	0.14	-0.91	17,17,17,17	0
56	MG	CA	1840	1/1	0.95	0.12	-0.92	54,54,54,54	0
56	MG	BA	3100	1/1	0.88	0.17	-0.92	42,42,42,42	0
56	MG	AA	1759	1/1	0.99	0.08	-0.97	6,6,6,6	0
56	MG	BA	3580	1/1	0.99	0.18	-0.97	19,19,19,19	0
56	MG	BA	3529	1/1	0.74	0.17	-0.98	32,32,32,32	0
56	MG	DA	3495	1/1	0.93	0.17	-0.98	13,13,13,13	0
56	MG	BA	3113	1/1	0.93	0.18	-0.98	10,10,10,10	0
56	MG	BA	3092	1/1	0.89	0.20	-0.98	40,40,40,40	0
56	MG	DA	3332	1/1	0.97	0.10	-0.99	50,50,50,50	0
56	MG	DA	3384	1/1	0.97	0.20	-1.01	20,20,20,20	0
56	MG	BD	302	1/1	0.99	0.14	-1.03	2,2,2,2	0
56	MG	DA	3202	1/1	0.99	0.07	-1.04	32,32,32,32	0
56	MG	DA	3057	1/1	0.92	0.14	-1.04	31,31,31,31	0
56	MG	BA	3209	1/1	0.93	0.17	-1.07	31,31,31,31	0
56	MG	BA	3711	1/1	0.90	0.21	-1.07	28,28,28,28	0
56	MG	DB	221	1/1	0.92	0.13	-1.09	49,49,49,49	0
56	MG	DA	3159	1/1	0.94	0.11	-1.10	52,52,52,52	0
56	MG	DA	3072	1/1	0.95	0.12	-1.11	29,29,29,29	0
56	MG	DA	3353	1/1	0.98	0.11	-1.12	0,0,0,0	0
56	MG	AX	403	1/1	0.93	0.06	-1.13	73,73,73,73	0
56	MG	DA	3362	1/1	0.96	0.16	-1.14	43,43,43,43	0
56	MG	AX	402	1/1	0.94	0.14	-1.19	29,29,29,29	0
56	MG	BA	3144	1/1	0.97	0.14	-1.20	34,34,34,34	0
56	MG	BA	3530	1/1	0.97	0.17	-1.20	35,35,35,35	0
56	MG	BA	3609	1/1	0.99	0.15	-1.20	10,10,10,10	0
56	MG	BA	3716	1/1	0.96	0.12	-1.20	28,28,28,28	0
56	MG	AA	1817	1/1	0.98	0.12	-1.20	39,39,39,39	0
56	MG	DA	3693	1/1	0.95	0.12	-1.21	30,30,30,30	0
56	MG	DA	3197	1/1	0.95	0.14	-1.21	31,31,31,31	0
56	MG	AA	1789	1/1	0.90	0.15	-1.21	33,33,33,33	0
56	MG	BA	3132	1/1	0.99	0.15	-1.22	21,21,21,21	0
56	MG	DA	3059	1/1	0.96	0.16	-1.22	27,27,27,27	0
56	MG	BA	3595	1/1	0.67	0.12	-1.22	61,61,61,61	0
56	MG	BA	3064	1/1	0.98	0.14	-1.23	21,21,21,21	0
56	MG	DA	3022	1/1	0.95	0.08	-1.26	19,19,19,19	0
56	MG	DA	3277	1/1	0.99	0.18	-1.26	0,0,0,0	0
56	MG	CX	404	1/1	0.97	0.10	-1.26	34,34,34,34	0
56	MG	BA	3644	1/1	0.96	0.14	-1.27	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	DA	3616	1/1	0.92	0.12	-1.27	10,10,10,10	0
56	MG	AA	1754	1/1	0.97	0.06	-1.27	21,21,21,21	0
56	MG	BA	3368	1/1	0.96	0.16	-1.29	22,22,22,22	0
56	MG	CA	1703	1/1	0.94	0.09	-1.31	34,34,34,34	0
56	MG	DW	201	1/1	0.97	0.17	-1.33	54,54,54,54	0
56	MG	BA	3213	1/1	0.98	0.15	-1.33	33,33,33,33	0
56	MG	CA	1829	1/1	0.93	0.21	-1.34	35,35,35,35	0
56	MG	BT	201	1/1	0.98	0.13	-1.35	23,23,23,23	0
56	MG	BA	3224	1/1	0.88	0.13	-1.35	52,52,52,52	0
56	MG	DA	3360	1/1	0.93	0.14	-1.36	29,29,29,29	0
56	MG	BA	3486	1/1	0.98	0.06	-1.36	41,41,41,41	0
56	MG	BA	3600	1/1	0.98	0.10	-1.37	13,13,13,13	0
56	MG	CA	1710	1/1	0.95	0.10	-1.38	29,29,29,29	0
56	MG	DA	3016	1/1	0.96	0.17	-1.38	3,3,3,3	0
56	MG	AA	1693	1/1	0.86	0.14	-1.39	45,45,45,45	0
56	MG	BA	3411	1/1	0.98	0.15	-1.40	20,20,20,20	0
56	MG	CA	1672	1/1	0.97	0.13	-1.41	33,33,33,33	0
56	MG	AA	1794	1/1	0.99	0.15	-1.42	13,13,13,13	0
56	MG	BA	3381	1/1	0.95	0.15	-1.42	2,2,2,2	0
56	MG	CA	1611	1/1	0.94	0.08	-1.43	40,40,40,40	0
56	MG	AA	1717	1/1	0.96	0.09	-1.45	28,28,28,28	0
56	MG	BA	3622	1/1	0.97	0.12	-1.45	32,32,32,32	0
56	MG	DA	3312	1/1	0.94	0.12	-1.45	24,24,24,24	0
56	MG	DA	3099	1/1	0.98	0.16	-1.48	23,23,23,23	0
56	MG	DA	3108	1/1	0.98	0.11	-1.49	1,1,1,1	0
56	MG	DA	3162	1/1	0.92	0.18	-1.51	33,33,33,33	0
56	MG	AA	1680	1/1	0.95	0.12	-1.51	26,26,26,26	0
56	MG	AA	1831	1/1	0.92	0.09	-1.51	44,44,44,44	0
57	ZN	CN	101	1/1	0.98	0.04	-1.52	82,82,82,82	0
56	MG	DP	201	1/1	0.89	0.08	-1.52	45,45,45,45	0
56	MG	DA	3524	1/1	0.93	0.09	-1.52	27,27,27,27	0
56	MG	AD	306	1/1	0.97	0.16	-1.53	38,38,38,38	0
56	MG	BA	3075	1/1	0.98	0.15	-1.53	11,11,11,11	0
56	MG	BA	3291	1/1	0.98	0.18	-1.53	19,19,19,19	0
56	MG	DA	3019	1/1	0.94	0.09	-1.55	5,5,5,5	0
56	MG	CZ	103	1/1	0.93	0.06	-1.55	51,51,51,51	0
56	MG	BA	3382	1/1	0.94	0.14	-1.56	33,33,33,33	0
56	MG	DA	3343	1/1	0.90	0.11	-1.57	35,35,35,35	0
56	MG	AC	303	1/1	0.93	0.07	-1.58	51,51,51,51	0
56	MG	CA	1689	1/1	0.84	0.20	-1.60	59,59,59,59	0
56	MG	BA	3268	1/1	0.97	0.14	-1.60	6,6,6,6	0
56	MG	BA	3044	1/1	0.99	0.15	-1.60	18,18,18,18	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	BA	3016	1/1	0.98	0.15	-1.61	0,0,0,0	0
56	MG	DA	3127	1/1	0.92	0.13	-1.61	71,71,71,71	0
56	MG	BA	3029	1/1	0.95	0.10	-1.61	1,1,1,1	0
56	MG	BB	217	1/1	0.93	0.10	-1.63	63,63,63,63	0
56	MG	AA	1633	1/1	0.91	0.12	-1.64	49,49,49,49	0
56	MG	AD	303	1/1	0.97	0.11	-1.65	17,17,17,17	0
56	MG	DA	3710	1/1	0.93	0.14	-1.66	21,21,21,21	0
56	MG	BA	3069	1/1	0.97	0.14	-1.67	11,11,11,11	0
56	MG	CA	1742	1/1	0.95	0.11	-1.68	22,22,22,22	0
56	MG	BA	3237	1/1	0.98	0.16	-1.68	28,28,28,28	0
56	MG	BA	3499	1/1	0.91	0.11	-1.69	18,18,18,18	0
56	MG	BD	301	1/1	0.97	0.08	-1.69	2,2,2,2	0
56	MG	DA	3669	1/1	0.97	0.10	-1.69	7,7,7,7	0
56	MG	AA	1639	1/1	0.99	0.04	-1.70	25,25,25,25	0
57	ZN	AN	101	1/1	0.98	0.04	-1.72	68,68,68,68	0
56	MG	BA	3137	1/1	0.96	0.11	-1.72	47,47,47,47	0
56	MG	BA	3612	1/1	0.94	0.12	-1.73	31,31,31,31	0
56	MG	BA	3203	1/1	0.93	0.14	-1.73	27,27,27,27	0
56	MG	CA	1655	1/1	0.98	0.15	-1.73	24,24,24,24	0
56	MG	CA	1626	1/1	0.96	0.10	-1.76	52,52,52,52	0
56	MG	BA	3537	1/1	0.96	0.09	-1.77	17,17,17,17	0
56	MG	DQ	201	1/1	0.87	0.10	-1.77	53,53,53,53	0
56	MG	AA	1775	1/1	0.92	0.13	-1.79	74,74,74,74	0
56	MG	DH	203	1/1	0.99	0.14	-1.79	19,19,19,19	0
56	MG	AA	1673	1/1	0.96	0.10	-1.80	21,21,21,21	0
56	MG	AA	1672	1/1	0.97	0.12	-1.81	46,46,46,46	0
56	MG	DA	3514	1/1	0.97	0.09	-1.81	44,44,44,44	0
56	MG	DA	3017	1/1	0.97	0.12	-1.83	4,4,4,4	0
56	MG	DA	3521	1/1	0.98	0.14	-1.84	7,7,7,7	0
56	MG	AA	1697	1/1	0.98	0.09	-1.85	1,1,1,1	0
56	MG	DA	3568	1/1	0.95	0.10	-1.86	44,44,44,44	0
56	MG	DA	3557	1/1	0.96	0.13	-1.86	13,13,13,13	0
56	MG	DD	301	1/1	0.98	0.05	-1.87	0,0,0,0	0
56	MG	BA	3085	1/1	0.94	0.12	-1.88	37,37,37,37	0
56	MG	BA	3420	1/1	0.93	0.11	-1.89	7,7,7,7	0
56	MG	BA	3269	1/1	0.95	0.10	-1.91	37,37,37,37	0
56	MG	DA	3687	1/1	0.95	0.12	-1.92	21,21,21,21	0
56	MG	BA	3423	1/1	0.91	0.16	-1.94	22,22,22,22	0
56	MG	DA	3164	1/1	0.96	0.10	-1.94	13,13,13,13	0
56	MG	BA	3480	1/1	0.94	0.20	-1.95	23,23,23,23	0
56	MG	AF	201	1/1	0.98	0.08	-1.95	30,30,30,30	0
56	MG	BF	301	1/1	0.92	0.13	-1.96	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	DA	3571	1/1	0.96	0.10	-1.97	26,26,26,26	0
56	MG	AA	1601	1/1	0.97	0.15	-1.98	18,18,18,18	0
56	MG	AA	1765	1/1	0.97	0.08	-1.99	35,35,35,35	0
56	MG	BA	3176	1/1	0.95	0.16	-1.99	3,3,3,3	0
56	MG	CZ	112	1/1	0.96	0.13	-2.00	36,36,36,36	0
56	MG	DA	3046	1/1	0.99	0.06	-2.00	10,10,10,10	0
56	MG	DA	3549	1/1	0.96	0.07	-2.02	13,13,13,13	0
56	MG	BA	3068	1/1	0.97	0.17	-2.04	14,14,14,14	0
56	MG	DA	3682	1/1	0.98	0.14	-2.05	10,10,10,10	0
56	MG	DA	3169	1/1	0.91	0.14	-2.05	42,42,42,42	0
57	ZN	AD	301	1/1	0.99	0.21	-2.06	46,46,46,46	0
56	MG	AA	1835	1/1	0.98	0.15	-2.06	17,17,17,17	0
56	MG	BA	3355	1/1	0.96	0.16	-2.09	35,35,35,35	0
56	MG	BA	3771	1/1	0.94	0.13	-2.09	45,45,45,45	0
56	MG	BA	3032	1/1	0.97	0.10	-2.10	11,11,11,11	0
56	MG	BA	3397	1/1	0.97	0.10	-2.10	45,45,45,45	0
56	MG	DA	3106	1/1	0.95	0.13	-2.10	34,34,34,34	0
56	MG	BA	3452	1/1	0.97	0.12	-2.11	18,18,18,18	0
56	MG	CA	1760	1/1	0.96	0.07	-2.14	59,59,59,59	0
56	MG	BA	3498	1/1	0.93	0.12	-2.14	19,19,19,19	0
56	MG	DA	3139	1/1	0.98	0.12	-2.16	47,47,47,47	0
56	MG	DA	3187	1/1	0.97	0.14	-2.17	14,14,14,14	0
56	MG	DA	3063	1/1	0.98	0.07	-2.17	0,0,0,0	0
56	MG	BA	3157	1/1	0.97	0.10	-2.18	8,8,8,8	0
56	MG	BA	3217	1/1	0.98	0.12	-2.19	0,0,0,0	0
56	MG	BA	3504	1/1	0.98	0.07	-2.21	12,12,12,12	0
56	MG	DA	3131	1/1	0.99	0.10	-2.22	16,16,16,16	0
56	MG	CA	1694	1/1	0.95	0.10	-2.22	39,39,39,39	0
56	MG	BA	3560	1/1	0.96	0.15	-2.23	27,27,27,27	0
56	MG	DA	3497	1/1	0.97	0.09	-2.24	47,47,47,47	0
56	MG	CA	1653	1/1	0.89	0.14	-2.24	49,49,49,49	0
56	MG	BA	3605	1/1	0.98	0.19	-2.26	41,41,41,41	0
56	MG	BA	3076	1/1	0.98	0.04	-2.26	26,26,26,26	0
56	MG	DA	3274	1/1	0.96	0.14	-2.27	6,6,6,6	0
56	MG	BF	305	1/1	0.98	0.11	-2.27	27,27,27,27	0
56	MG	DA	3318	1/1	0.98	0.12	-2.30	21,21,21,21	0
56	MG	AA	1619	1/1	0.95	0.11	-2.31	37,37,37,37	0
56	MG	D7	102	1/1	0.97	0.11	-2.31	28,28,28,28	0
56	MG	AA	1609	1/1	0.98	0.07	-2.32	28,28,28,28	0
56	MG	DA	3510	1/1	0.94	0.15	-2.33	38,38,38,38	0
56	MG	BA	3054	1/1	0.97	0.12	-2.34	6,6,6,6	0
56	MG	BA	3541	1/1	0.94	0.11	-2.35	1,1,1,1	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	BA	3109	1/1	0.97	0.17	-2.35	25,25,25,25	0
56	MG	DA	3350	1/1	0.97	0.10	-2.36	24,24,24,24	0
56	MG	BE	301	1/1	0.95	0.09	-2.39	42,42,42,42	0
56	MG	AA	1847	1/1	0.97	0.12	-2.43	46,46,46,46	0
56	MG	DA	3272	1/1	0.96	0.10	-2.43	0,0,0,0	0
56	MG	DA	3111	1/1	0.99	0.09	-2.45	6,6,6,6	0
56	MG	B2	101	1/1	0.97	0.20	-2.46	32,32,32,32	0
56	MG	BA	3006	1/1	0.97	0.10	-2.47	9,9,9,9	0
56	MG	DO	202	1/1	0.99	0.07	-2.47	14,14,14,14	0
56	MG	BA	3436	1/1	0.97	0.10	-2.47	1,1,1,1	0
56	MG	BA	3125	1/1	0.93	0.10	-2.47	23,23,23,23	0
56	MG	AA	1838	1/1	0.97	0.13	-2.50	39,39,39,39	0
56	MG	DA	3064	1/1	0.98	0.12	-2.51	11,11,11,11	0
56	MG	BA	3464	1/1	0.97	0.13	-2.51	30,30,30,30	0
56	MG	CA	1810	1/1	0.92	0.11	-2.51	28,28,28,28	0
56	MG	AA	1698	1/1	0.97	0.10	-2.51	27,27,27,27	0
56	MG	BA	3378	1/1	0.93	0.07	-2.52	28,28,28,28	0
56	MG	DA	3426	1/1	0.94	0.10	-2.56	34,34,34,34	0
56	MG	DA	3242	1/1	0.98	0.08	-2.56	24,24,24,24	0
56	MG	DA	3103	1/1	0.94	0.10	-2.56	16,16,16,16	0
56	MG	BA	3120	1/1	0.94	0.07	-2.57	1,1,1,1	0
56	MG	BA	3045	1/1	0.92	0.12	-2.57	40,40,40,40	0
57	ZN	CD	301	1/1	0.98	0.24	-2.57	70,70,70,70	0
56	MG	BA	3074	1/1	0.97	0.06	-2.59	24,24,24,24	0
56	MG	DA	3306	1/1	0.98	0.07	-2.60	15,15,15,15	0
56	MG	BA	3283	1/1	0.95	0.10	-2.60	4,4,4,4	0
56	MG	CY	121	1/1	0.98	0.08	-2.62	0,0,0,0	0
56	MG	BA	3030	1/1	0.97	0.08	-2.62	26,26,26,26	0
56	MG	BA	3035	1/1	0.96	0.09	-2.65	38,38,38,38	0
56	MG	CA	1682	1/1	0.87	0.12	-2.66	46,46,46,46	0
56	MG	DA	3023	1/1	0.94	0.11	-2.68	7,7,7,7	0
56	MG	CA	1625	1/1	0.86	0.13	-2.70	60,60,60,60	0
56	MG	CY	117	1/1	0.97	0.11	-2.70	23,23,23,23	0
56	MG	DA	3409	1/1	0.98	0.09	-2.72	24,24,24,24	0
56	MG	BA	3236	1/1	0.97	0.16	-2.73	6,6,6,6	0
56	MG	CZ	104	1/1	0.98	0.07	-2.73	42,42,42,42	0
56	MG	BA	3367	1/1	0.99	0.12	-2.73	24,24,24,24	0
56	MG	CA	1911	1/1	0.88	0.12	-2.74	62,62,62,62	0
56	MG	CA	1644	1/1	0.99	0.06	-2.76	6,6,6,6	0
56	MG	CA	1878	1/1	0.95	0.07	-2.77	31,31,31,31	0
56	MG	CA	1643	1/1	0.95	0.07	-2.77	35,35,35,35	0
56	MG	BA	3468	1/1	0.98	0.06	-2.77	1,1,1,1	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	DA	3600	1/1	0.99	0.07	-2.77	17,17,17,17	0
56	MG	BA	3353	1/1	0.97	0.07	-2.79	40,40,40,40	0
56	MG	BA	3602	1/1	0.94	0.08	-2.80	42,42,42,42	0
56	MG	CA	1880	1/1	0.93	0.06	-2.82	51,51,51,51	0
56	MG	BA	3002	1/1	0.97	0.08	-2.83	20,20,20,20	0
56	MG	DA	3031	1/1	0.98	0.11	-2.85	21,21,21,21	0
56	MG	DA	3563	1/1	0.98	0.09	-2.85	8,8,8,8	0
56	MG	DA	3143	1/1	0.98	0.09	-2.91	31,31,31,31	0
56	MG	DA	3245	1/1	0.98	0.09	-2.92	5,5,5,5	0
56	MG	CA	1692	1/1	0.97	0.10	-2.92	6,6,6,6	0
56	MG	BB	207	1/1	0.97	0.06	-2.93	28,28,28,28	0
56	MG	BA	3235	1/1	0.96	0.07	-2.94	21,21,21,21	0
56	MG	DA	3191	1/1	0.95	0.09	-2.97	48,48,48,48	0
56	MG	AA	1642	1/1	0.96	0.13	-2.97	46,46,46,46	0
56	MG	DA	3180	1/1	0.97	0.09	-2.97	22,22,22,22	0
56	MG	DA	3598	1/1	0.98	0.08	-2.98	9,9,9,9	0
56	MG	BA	3528	1/1	0.97	0.09	-3.04	9,9,9,9	0
56	MG	BA	3018	1/1	0.99	0.07	-3.05	2,2,2,2	0
56	MG	AA	1607	1/1	0.98	0.10	-3.07	8,8,8,8	0
56	MG	BA	3493	1/1	0.99	0.05	-3.08	17,17,17,17	0
56	MG	DA	3400	1/1	0.96	0.12	-3.11	19,19,19,19	0
56	MG	AA	1730	1/1	0.97	0.10	-3.12	12,12,12,12	0
56	MG	DA	3082	1/1	0.96	0.10	-3.13	19,19,19,19	0
56	MG	BA	3366	1/1	0.99	0.06	-3.14	10,10,10,10	0
56	MG	AA	1888	1/1	0.92	0.10	-3.14	53,53,53,53	0
56	MG	AA	1803	1/1	0.90	0.15	-3.15	30,30,30,30	0
56	MG	DA	3156	1/1	0.99	0.11	-3.15	14,14,14,14	0
56	MG	AA	1787	1/1	0.95	0.09	-3.16	36,36,36,36	0
56	MG	DA	3345	1/1	0.99	0.10	-3.20	24,24,24,24	0
56	MG	DA	3502	1/1	0.98	0.08	-3.20	13,13,13,13	0
56	MG	DA	3611	1/1	0.99	0.07	-3.21	21,21,21,21	0
56	MG	BA	3088	1/1	0.96	0.10	-3.22	10,10,10,10	0
56	MG	BA	3146	1/1	0.99	0.04	-3.23	22,22,22,22	0
56	MG	BA	3266	1/1	0.99	0.09	-3.24	10,10,10,10	0
56	MG	BA	3497	1/1	0.99	0.07	-3.28	2,2,2,2	0
56	MG	BO	201	1/1	0.98	0.06	-3.29	17,17,17,17	0
56	MG	DA	3165	1/1	0.97	0.11	-3.30	8,8,8,8	0
56	MG	BA	3516	1/1	0.94	0.09	-3.35	25,25,25,25	0
56	MG	AA	1679	1/1	0.98	0.07	-3.37	32,32,32,32	0
56	MG	DA	3146	1/1	0.99	0.09	-3.37	20,20,20,20	0
56	MG	DA	3226	1/1	0.98	0.06	-3.38	21,21,21,21	0
56	MG	BA	3168	1/1	0.98	0.06	-3.39	4,4,4,4	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	BA	3322	1/1	0.93	0.12	-3.41	33,33,33,33	0
56	MG	BA	3487	1/1	0.98	0.07	-3.42	16,16,16,16	0
56	MG	D2	101	1/1	0.98	0.13	-3.44	58,58,58,58	0
56	MG	CA	1622	1/1	0.95	0.07	-3.46	24,24,24,24	0
56	MG	DA	3697	1/1	0.95	0.10	-3.48	36,36,36,36	0
56	MG	BA	3105	1/1	0.97	0.10	-3.48	36,36,36,36	0
56	MG	DA	3733	1/1	0.99	0.08	-3.48	19,19,19,19	0
56	MG	BA	3314	1/1	0.98	0.09	-3.52	10,10,10,10	0
56	MG	CA	1623	1/1	0.98	0.08	-3.52	22,22,22,22	0
56	MG	BA	3042	1/1	0.98	0.07	-3.59	12,12,12,12	0
56	MG	DA	3265	1/1	0.95	0.08	-3.61	25,25,25,25	0
56	MG	BA	3503	1/1	0.99	0.08	-3.62	29,29,29,29	0
56	MG	CA	1842	1/1	0.96	0.12	-3.64	36,36,36,36	0
56	MG	BA	3428	1/1	0.97	0.07	-3.64	17,17,17,17	0
56	MG	BA	3524	1/1	0.98	0.07	-3.67	36,36,36,36	0
56	MG	BA	3298	1/1	0.99	0.11	-3.68	5,5,5,5	0
56	MG	DA	3078	1/1	0.96	0.09	-3.74	15,15,15,15	0
56	MG	AA	1769	1/1	0.99	0.04	-3.78	47,47,47,47	0
56	MG	BA	3208	1/1	0.96	0.10	-3.79	27,27,27,27	0
56	MG	BA	3067	1/1	0.99	0.06	-3.84	27,27,27,27	0
56	MG	CA	1629	1/1	0.97	0.09	-3.84	8,8,8,8	0
56	MG	AA	1757	1/1	0.91	0.06	-3.85	26,26,26,26	0
56	MG	CA	1817	1/1	0.97	0.06	-3.87	19,19,19,19	0
56	MG	CA	1969	1/1	0.89	0.10	-3.91	43,43,43,43	0
56	MG	DA	3453	1/1	0.99	0.05	-3.92	23,23,23,23	0
56	MG	BA	3316	1/1	0.97	0.09	-3.97	12,12,12,12	0
56	MG	BA	3520	1/1	0.97	0.10	-3.98	7,7,7,7	0
56	MG	DA	3150	1/1	0.98	0.09	-3.98	1,1,1,1	0
56	MG	BA	3482	1/1	1.00	0.05	-4.09	11,11,11,11	0
56	MG	DA	3397	1/1	0.98	0.07	-4.16	19,19,19,19	0
56	MG	BA	3561	1/1	0.96	0.07	-4.20	30,30,30,30	0
56	MG	DA	3051	1/1	0.99	0.04	-4.20	11,11,11,11	0
56	MG	BA	3152	1/1	0.99	0.05	-4.21	7,7,7,7	0
56	MG	BA	3281	1/1	0.97	0.09	-4.23	7,7,7,7	0
56	MG	CA	1695	1/1	0.93	0.10	-4.28	59,59,59,59	0
56	MG	CA	1799	1/1	0.98	0.08	-4.31	14,14,14,14	0
56	MG	CA	1633	1/1	0.98	0.08	-4.36	12,12,12,12	0
56	MG	DA	3102	1/1	0.99	0.06	-4.41	5,5,5,5	0
56	MG	BA	3295	1/1	0.95	0.10	-4.42	1,1,1,1	0
56	MG	BA	3027	1/1	0.98	0.08	-4.43	20,20,20,20	0
56	MG	CA	1805	1/1	0.98	0.11	-4.49	9,9,9,9	0
56	MG	AA	1681	1/1	0.97	0.07	-4.55	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	DA	3041	1/1	0.97	0.05	-4.57	12,12,12,12	0
56	MG	AA	1617	1/1	0.99	0.05	-4.62	0,0,0,0	0
56	MG	CA	1933	1/1	0.98	0.08	-4.67	36,36,36,36	0
56	MG	AA	1635	1/1	0.97	0.09	-4.81	30,30,30,30	0
56	MG	BA	3005	1/1	0.98	0.07	-4.91	2,2,2,2	0
56	MG	AA	1661	1/1	0.93	0.10	-5.01	28,28,28,28	0
56	MG	DA	3219	1/1	0.98	0.08	-5.09	12,12,12,12	0
56	MG	BA	3126	1/1	0.98	0.07	-5.29	37,37,37,37	0
56	MG	BA	3276	1/1	0.99	0.05	-5.30	0,0,0,0	0
56	MG	BA	3099	1/1	0.99	0.06	-5.34	1,1,1,1	0
56	MG	DA	3314	1/1	0.98	0.06	-5.34	25,25,25,25	0
56	MG	DA	3024	1/1	0.98	0.07	-5.48	12,12,12,12	0
56	MG	CA	1808	1/1	0.98	0.10	-5.52	13,13,13,13	0
56	MG	CA	1660	1/1	0.99	0.06	-5.70	10,10,10,10	0
56	MG	BO	203	1/1	0.99	0.04	-5.89	19,19,19,19	0
56	MG	DA	3061	1/1	0.98	0.07	-5.93	4,4,4,4	0
56	MG	BA	3026	1/1	0.94	0.08	-6.11	0,0,0,0	0
56	MG	DA	3119	1/1	0.97	0.06	-6.18	10,10,10,10	0
56	MG	DA	3264	1/1	0.98	0.08	-6.43	29,29,29,29	0
56	MG	CA	1617	1/1	0.98	0.04	-6.47	11,11,11,11	0
56	MG	BA	3300	1/1	0.99	0.04	-6.47	20,20,20,20	0
56	MG	DA	3130	1/1	0.98	0.05	-6.58	20,20,20,20	0
56	MG	BA	3084	1/1	0.99	0.04	-6.62	1,1,1,1	0
56	MG	AA	1710	1/1	0.99	0.05	-6.92	1,1,1,1	0
56	MG	BA	3458	1/1	0.97	0.09	-7.26	6,6,6,6	0
56	MG	CA	1806	1/1	0.95	0.07	-7.43	36,36,36,36	0
56	MG	DA	3285	1/1	0.99	0.06	-8.96	15,15,15,15	0
56	MG	BA	3041	1/1	0.98	0.09	-12.81	25,25,25,25	0
56	MG	DA	3471	1/1	0.98	0.08	-17.38	18,18,18,18	0
56	MG	BA	3396	1/1	0.88	0.21	-	57,57,57,57	0
56	MG	AA	1729	1/1	0.98	0.08	-	12,12,12,12	0
56	MG	DA	3380	1/1	0.96	0.12	-	26,26,26,26	0
56	MG	BA	3766	1/1	0.80	0.19	-	44,44,44,44	0
56	MG	DA	3418	1/1	0.93	0.16	-	54,54,54,54	0
56	MG	CA	1818	1/1	0.80	0.19	-	64,64,64,64	0
56	MG	DA	3614	1/1	0.97	0.19	-	55,55,55,55	0
56	MG	DA	3479	1/1	0.95	0.10	-	44,44,44,44	0
56	MG	CA	1882	1/1	0.98	0.35	-	35,35,35,35	0
56	MG	DA	3132	1/1	0.99	0.14	-	11,11,11,11	0
56	MG	DA	3328	1/1	0.99	0.05	-	10,10,10,10	0
56	MG	DA	3209	1/1	0.95	0.10	-	55,55,55,55	0
56	MG	AA	1877	1/1	0.97	0.23	-	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	CA	1641	1/1	0.97	0.08	-	14,14,14,14	0
56	MG	DA	3167	1/1	0.93	0.18	-	23,23,23,23	0
56	MG	BB	215	1/1	0.96	0.09	-	47,47,47,47	0
56	MG	BA	3655	1/1	0.87	0.17	-	47,47,47,47	0
56	MG	DA	3566	1/1	0.98	0.07	-	15,15,15,15	0
56	MG	DA	3411	1/1	0.93	0.10	-	26,26,26,26	0
56	MG	DA	3562	1/1	0.98	0.07	-	17,17,17,17	0
56	MG	CA	1939	1/1	0.96	0.25	-	55,55,55,55	0
56	MG	AA	1658	1/1	0.97	0.11	-	19,19,19,19	0
56	MG	BA	3416	1/1	0.98	0.09	-	15,15,15,15	0
56	MG	DA	3504	1/1	0.93	0.11	-	39,39,39,39	0
56	MG	DA	3450	1/1	0.98	0.48	-	29,29,29,29	0
56	MG	DA	3050	1/1	0.97	0.16	-	11,11,11,11	0
56	MG	BA	3246	1/1	0.98	0.06	-	41,41,41,41	0
56	MG	AA	1675	1/1	0.95	0.21	-	47,47,47,47	0
56	MG	D4	103	1/1	0.95	0.28	-	40,40,40,40	0
56	MG	DA	3596	1/1	0.98	0.06	-	41,41,41,41	0
56	MG	BA	3681	1/1	0.94	0.16	-	62,62,62,62	0
56	MG	DA	3543	1/1	0.95	0.12	-	20,20,20,20	0
56	MG	BA	3725	1/1	0.84	0.22	-	52,52,52,52	0
56	MG	DA	3505	1/1	0.95	0.23	-	30,30,30,30	0
56	MG	DA	3743	1/1	0.95	0.24	-	43,43,43,43	0
56	MG	CA	1767	1/1	0.98	0.08	-	22,22,22,22	0
56	MG	DA	3086	1/1	0.98	0.12	-	42,42,42,42	0
56	MG	CV	104	1/1	0.81	0.42	-	54,54,54,54	0
56	MG	AA	1700	1/1	0.98	0.20	-	46,46,46,46	0
56	MG	BA	3575	1/1	0.92	0.16	-	52,52,52,52	0
56	MG	BA	3619	1/1	0.97	0.09	-	32,32,32,32	0
56	MG	AA	1674	1/1	0.92	0.37	-	74,74,74,74	0
56	MG	BA	3476	1/1	0.91	0.27	-	39,39,39,39	0
56	MG	DA	3116	1/1	0.86	0.25	-	41,41,41,41	0
56	MG	AA	1872	1/1	0.95	0.15	-	19,19,19,19	0
56	MG	BA	3466	1/1	0.98	0.08	-	22,22,22,22	0
56	MG	BA	3242	1/1	0.98	0.10	-	22,22,22,22	0
56	MG	AA	1602	1/1	0.95	0.08	-	23,23,23,23	0
56	MG	DA	3352	1/1	0.99	0.14	-	15,15,15,15	0
56	MG	CA	1757	1/1	0.93	0.23	-	27,27,27,27	0
56	MG	BA	3546	1/1	0.97	0.11	-	17,17,17,17	0
56	MG	DA	3756	1/1	0.91	0.09	-	53,53,53,53	0
56	MG	CY	101	1/1	0.98	0.13	-	12,12,12,12	0
56	MG	CA	1995	1/1	0.94	0.18	-	47,47,47,47	0
56	MG	DA	3690	1/1	0.91	0.11	-	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	CA	2013	1/1	0.99	0.03	-	7,7,7,7	0
56	MG	BA	3408	1/1	0.98	0.10	-	12,12,12,12	0
56	MG	BA	3434	1/1	0.95	0.10	-	45,45,45,45	0
56	MG	DA	3720	1/1	0.95	0.11	-	45,45,45,45	0
56	MG	DA	3321	1/1	0.97	0.10	-	28,28,28,28	0
56	MG	BA	3769	1/1	0.94	0.07	-	65,65,65,65	0
56	MG	BA	3066	1/1	0.98	0.13	-	37,37,37,37	0
56	MG	DA	3421	1/1	0.98	0.15	-	26,26,26,26	0
56	MG	BA	3733	1/1	0.93	0.29	-	43,43,43,43	0
56	MG	BA	3204	1/1	0.97	0.11	-	41,41,41,41	0
56	MG	DA	3230	1/1	0.99	0.07	-	19,19,19,19	0
56	MG	DA	3751	1/1	0.98	0.25	-	48,48,48,48	0
56	MG	DA	3716	1/1	0.95	0.30	-	54,54,54,54	0
56	MG	BA	3705	1/1	0.96	0.16	-	47,47,47,47	0
56	MG	AL	202	1/1	0.97	0.20	-	46,46,46,46	0
56	MG	CA	1991	1/1	0.93	0.32	-	57,57,57,57	0
56	MG	DA	3284	1/1	0.95	0.14	-	7,7,7,7	0
56	MG	AA	1828	1/1	0.93	0.16	-	47,47,47,47	0
56	MG	DA	3419	1/1	0.99	0.07	-	33,33,33,33	0
56	MG	AG	201	1/1	0.95	0.10	-	23,23,23,23	0
56	MG	BA	3388	1/1	0.97	0.23	-	46,46,46,46	0
56	MG	AA	1887	1/1	0.98	0.12	-	18,18,18,18	0
56	MG	DA	3140	1/1	0.98	0.19	-	18,18,18,18	0
56	MG	AA	1663	1/1	0.96	0.13	-	35,35,35,35	0
56	MG	BA	3491	1/1	0.97	0.13	-	31,31,31,31	0
56	MG	BA	3764	1/1	0.92	0.23	-	36,36,36,36	0
56	MG	BA	3317	1/1	0.97	0.13	-	25,25,25,25	0
56	MG	BA	3700	1/1	0.89	0.27	-	67,67,67,67	0
56	MG	BO	202	1/1	0.95	0.08	-	29,29,29,29	0
56	MG	BA	3564	1/1	0.95	0.14	-	47,47,47,47	0
56	MG	AY	121	1/1	0.98	0.15	-	30,30,30,30	0
56	MG	CA	1965	1/1	0.94	0.09	-	54,54,54,54	0
56	MG	CZ	118	1/1	0.98	0.43	-	69,69,69,69	0
56	MG	AA	1657	1/1	0.96	0.10	-	37,37,37,37	0
56	MG	BA	3785	1/1	0.97	0.22	-	47,47,47,47	0
56	MG	B2	102	1/1	0.98	0.23	-	31,31,31,31	0
56	MG	CA	1780	1/1	0.96	0.09	-	15,15,15,15	0
56	MG	AA	1781	1/1	0.93	0.11	-	55,55,55,55	0
56	MG	CZ	114	1/1	0.95	0.12	-	46,46,46,46	0
56	MG	BA	3729	1/1	0.97	0.15	-	43,43,43,43	0
56	MG	BA	3249	1/1	0.98	0.09	-	41,41,41,41	0
56	MG	BA	3251	1/1	0.93	0.11	-	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	BA	3111	1/1	0.99	0.06	-	10,10,10,10	0
56	MG	BA	3692	1/1	0.92	0.21	-	41,41,41,41	0
56	MG	DA	3595	1/1	0.98	0.09	-	17,17,17,17	0
56	MG	BA	3174	1/1	0.98	0.11	-	28,28,28,28	0
56	MG	AA	1632	1/1	1.00	0.08	-	5,5,5,5	0
56	MG	DA	3104	1/1	0.97	0.15	-	21,21,21,21	0
56	MG	CA	2005	1/1	0.96	0.42	-	58,58,58,58	0
56	MG	DA	3619	1/1	0.99	0.12	-	23,23,23,23	0
56	MG	BA	3472	1/1	0.91	0.21	-	44,44,44,44	0
56	MG	CA	1827	1/1	0.88	0.12	-	48,48,48,48	0
56	MG	DA	3414	1/1	0.93	0.25	-	43,43,43,43	0
56	MG	CY	109	1/1	0.78	0.20	-	68,68,68,68	0
56	MG	DB	220	1/1	0.98	0.09	-	23,23,23,23	0
56	MG	DA	3379	1/1	0.85	0.52	-	51,51,51,51	0
56	MG	BA	3547	1/1	0.96	0.08	-	26,26,26,26	0
56	MG	BA	3308	1/1	0.94	0.17	-	9,9,9,9	0
56	MG	BA	3078	1/1	0.92	0.07	-	22,22,22,22	0
56	MG	DA	3546	1/1	0.58	0.69	-	82,82,82,82	0
56	MG	CA	1903	1/1	0.99	0.13	-	31,31,31,31	0
56	MG	BA	3323	1/1	0.97	0.14	-	40,40,40,40	0
56	MG	BA	3440	1/1	0.99	0.16	-	15,15,15,15	0
56	MG	DA	3109	1/1	0.97	0.13	-	19,19,19,19	0
56	MG	CA	2001	1/1	0.96	0.07	-	36,36,36,36	0
56	MG	DA	3602	1/1	0.97	0.09	-	32,32,32,32	0
56	MG	BA	3661	1/1	0.91	0.35	-	67,67,67,67	0
56	MG	DA	3121	1/1	0.98	0.14	-	24,24,24,24	0
56	MG	AA	1726	1/1	0.92	0.12	-	44,44,44,44	0
56	MG	BA	3800	1/1	0.96	0.70	-	32,32,32,32	0
56	MG	BA	3342	1/1	0.94	0.10	-	36,36,36,36	0
56	MG	CA	1887	1/1	0.97	0.24	-	40,40,40,40	0
56	MG	AA	1644	1/1	0.90	0.08	-	31,31,31,31	0
56	MG	BA	3101	1/1	0.96	0.08	-	0,0,0,0	0
56	MG	AA	1782	1/1	0.99	0.07	-	21,21,21,21	0
56	MG	CA	1926	1/1	0.91	0.15	-	61,61,61,61	0
56	MG	DA	3432	1/1	0.86	0.20	-	51,51,51,51	0
56	MG	BA	3672	1/1	0.86	0.14	-	45,45,45,45	0
56	MG	BA	3463	1/1	0.91	0.15	-	27,27,27,27	0
56	MG	CA	1777	1/1	0.92	0.14	-	34,34,34,34	0
56	MG	DA	3433	1/1	0.98	0.09	-	21,21,21,21	0
56	MG	CA	1774	1/1	0.92	0.10	-	31,31,31,31	0
56	MG	DA	3154	1/1	0.98	0.26	-	38,38,38,38	0
56	MG	BA	3465	1/1	0.84	0.42	-	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	DA	3356	1/1	0.96	0.10	-	38,38,38,38	0
56	MG	DB	206	1/1	0.95	0.12	-	39,39,39,39	0
56	MG	BA	3106	1/1	0.93	0.10	-	26,26,26,26	0
56	MG	DA	3239	1/1	0.99	0.09	-	12,12,12,12	0
56	MG	BA	3358	1/1	0.94	0.33	-	44,44,44,44	0
56	MG	CA	2014	1/1	0.83	0.43	-	52,52,52,52	0
56	MG	DA	3492	1/1	0.60	0.16	-	37,37,37,37	0
56	MG	CA	1919	1/1	0.95	0.15	-	64,64,64,64	0
56	MG	BA	3304	1/1	0.92	0.14	-	42,42,42,42	0
56	MG	BA	3772	1/1	0.90	0.49	-	57,57,57,57	0
56	MG	CA	1783	1/1	0.96	0.14	-	32,32,32,32	0
56	MG	CA	1875	1/1	0.98	0.15	-	19,19,19,19	0
56	MG	DA	3545	1/1	0.86	0.08	-	50,50,50,50	0
56	MG	AA	1827	1/1	0.96	0.06	-	38,38,38,38	0
56	MG	DA	3323	1/1	0.99	0.05	-	8,8,8,8	0
56	MG	DA	3011	1/1	0.99	0.20	-	17,17,17,17	0
56	MG	BB	213	1/1	0.98	0.09	-	35,35,35,35	0
56	MG	AA	1723	1/1	0.97	0.08	-	29,29,29,29	0
56	MG	BA	3536	1/1	0.89	0.11	-	34,34,34,34	0
56	MG	DA	3603	1/1	0.97	0.22	-	32,32,32,32	0
56	MG	CA	1960	1/1	0.99	0.11	-	26,26,26,26	0
56	MG	DA	3586	1/1	0.97	0.18	-	55,55,55,55	0
56	MG	DA	3157	1/1	0.97	0.12	-	30,30,30,30	0
56	MG	CA	1796	1/1	0.92	0.07	-	27,27,27,27	0
56	MG	DA	3240	1/1	0.99	0.07	-	21,21,21,21	0
56	MG	AA	1884	1/1	0.81	0.34	-	55,55,55,55	0
56	MG	DA	3378	1/1	0.99	0.06	-	17,17,17,17	0
56	MG	AA	1899	1/1	0.97	0.17	-	42,42,42,42	0
56	MG	BA	3802	1/1	0.95	0.23	-	54,54,54,54	0
56	MG	AA	1771	1/1	0.96	0.11	-	62,62,62,62	0
56	MG	BA	3571	1/1	0.99	0.04	-	40,40,40,40	0
56	MG	DA	3034	1/1	0.96	0.12	-	9,9,9,9	0
56	MG	DW	203	1/1	0.97	0.12	-	7,7,7,7	0
56	MG	AA	1822	1/1	0.90	0.16	-	39,39,39,39	0
56	MG	AA	1886	1/1	0.99	0.11	-	39,39,39,39	0
56	MG	AO	103	1/1	0.91	0.26	-	43,43,43,43	0
56	MG	BA	3379	1/1	0.98	0.09	-	25,25,25,25	0
56	MG	CA	1639	1/1	0.99	0.07	-	28,28,28,28	0
56	MG	BG	202	1/1	0.98	0.07	-	26,26,26,26	0
56	MG	DA	3424	1/1	0.99	0.08	-	22,22,22,22	0
56	MG	CA	1680	1/1	0.98	0.09	-	37,37,37,37	0
56	MG	DA	3431	1/1	0.98	0.20	-	29,29,29,29	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	DA	3560	1/1	0.98	0.15	-	8,8,8,8	0
56	MG	DA	3588	1/1	0.96	0.11	-	14,14,14,14	0
56	MG	BI	202	1/1	0.99	0.06	-	29,29,29,29	0
56	MG	BA	3442	1/1	0.99	0.36	-	26,26,26,26	0
56	MG	AA	1628	1/1	0.96	0.10	-	34,34,34,34	0
56	MG	BA	3675	1/1	0.98	0.07	-	40,40,40,40	0
56	MG	BA	3506	1/1	0.94	0.12	-	10,10,10,10	0
56	MG	BA	3712	1/1	0.89	0.22	-	37,37,37,37	0
56	MG	CA	1884	1/1	0.95	0.09	-	39,39,39,39	0
56	MG	DA	3040	1/1	0.99	0.13	-	10,10,10,10	0
56	MG	CA	1726	1/1	0.97	0.14	-	32,32,32,32	0
56	MG	CA	1654	1/1	0.97	0.09	-	23,23,23,23	0
56	MG	BA	3592	1/1	0.96	0.22	-	58,58,58,58	0
56	MG	BA	3034	1/1	0.97	0.07	-	17,17,17,17	0
56	MG	CA	1923	1/1	0.99	0.11	-	28,28,28,28	0
56	MG	AA	1792	1/1	0.90	0.06	-	58,58,58,58	0
56	MG	DA	3538	1/1	0.98	0.12	-	34,34,34,34	0
56	MG	BA	3083	1/1	0.99	0.06	-	9,9,9,9	0
56	MG	BB	214	1/1	0.95	0.06	-	29,29,29,29	0
56	MG	DA	3584	1/1	0.96	0.07	-	35,35,35,35	0
56	MG	DA	3179	1/1	0.92	0.13	-	50,50,50,50	0
56	MG	CY	120	1/1	0.97	0.17	-	29,29,29,29	0
56	MG	DA	3253	1/1	0.91	0.19	-	48,48,48,48	0
56	MG	BA	3375	1/1	0.98	0.06	-	14,14,14,14	0
56	MG	BA	3742	1/1	0.96	0.15	-	46,46,46,46	0
56	MG	AA	1720	1/1	0.93	0.14	-	33,33,33,33	0
56	MG	BA	3079	1/1	0.96	0.11	-	29,29,29,29	0
56	MG	AA	1779	1/1	0.88	0.39	-	51,51,51,51	0
56	MG	DA	3708	1/1	0.91	0.29	-	60,60,60,60	0
56	MG	CA	1976	1/1	0.98	0.09	-	32,32,32,32	0
56	MG	BA	3135	1/1	1.00	0.05	-	13,13,13,13	0
56	MG	DA	3393	1/1	0.98	0.27	-	37,37,37,37	0
56	MG	DA	3120	1/1	0.99	0.27	-	23,23,23,23	0
56	MG	BA	3216	1/1	0.96	0.11	-	33,33,33,33	0
56	MG	CA	1764	1/1	0.97	0.14	-	30,30,30,30	0
56	MG	DA	3734	1/1	0.95	0.10	-	60,60,60,60	0
56	MG	AA	1716	1/1	0.99	0.07	-	35,35,35,35	0
56	MG	BA	3780	1/1	0.69	0.25	-	56,56,56,56	0
56	MG	DA	3388	1/1	0.99	0.06	-	3,3,3,3	0
56	MG	DA	3324	1/1	0.97	0.14	-	11,11,11,11	0
56	MG	CA	1775	1/1	0.97	0.18	-	30,30,30,30	0
56	MG	AA	1753	1/1	0.96	0.19	-	31,31,31,31	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	BA	3583	1/1	0.98	0.08	-	24,24,24,24	0
56	MG	BA	3741	1/1	0.93	0.13	-	28,28,28,28	0
56	MG	BA	3673	1/1	0.90	0.39	-	46,46,46,46	0
56	MG	DA	3609	1/1	0.87	0.29	-	62,62,62,62	0
56	MG	BA	3578	1/1	0.97	0.12	-	19,19,19,19	0
56	MG	BA	3095	1/1	0.96	0.06	-	27,27,27,27	0
56	MG	BA	3735	1/1	0.96	0.19	-	29,29,29,29	0
56	MG	AA	1889	1/1	0.98	0.22	-	20,20,20,20	0
56	MG	BA	3012	1/1	0.89	0.09	-	36,36,36,36	0
56	MG	CA	1720	1/1	0.91	0.10	-	51,51,51,51	0
56	MG	CP	101	1/1	0.85	0.45	-	57,57,57,57	0
56	MG	AA	1614	1/1	0.99	0.08	-	4,4,4,4	0
56	MG	AA	1613	1/1	0.98	0.18	-	20,20,20,20	0
56	MG	DA	3214	1/1	0.92	0.10	-	46,46,46,46	0
56	MG	BA	3326	1/1	0.92	0.24	-	46,46,46,46	0
56	MG	AA	1850	1/1	0.97	0.30	-	23,23,23,23	0
56	MG	AA	1815	1/1	0.98	0.20	-	24,24,24,24	0
56	MG	DB	218	1/1	0.95	0.10	-	46,46,46,46	0
56	MG	CA	1679	1/1	0.98	0.11	-	40,40,40,40	0
56	MG	BH	201	1/1	0.98	0.12	-	15,15,15,15	0
56	MG	CX	407	1/1	0.84	0.30	-	70,70,70,70	0
56	MG	CA	1755	1/1	0.99	0.09	-	31,31,31,31	0
56	MG	BA	3061	1/1	0.99	0.09	-	26,26,26,26	0
56	MG	BA	3462	1/1	0.91	0.27	-	39,39,39,39	0
56	MG	BA	3310	1/1	0.99	0.09	-	23,23,23,23	0
56	MG	CA	1706	1/1	0.97	0.07	-	16,16,16,16	0
56	MG	DA	3190	1/1	0.96	0.16	-	32,32,32,32	0
56	MG	CA	1904	1/1	0.96	0.06	-	42,42,42,42	0
56	MG	BA	3572	1/1	0.67	0.17	-	72,72,72,72	0
56	MG	BB	220	1/1	0.97	0.13	-	60,60,60,60	0
56	MG	AA	1650	1/1	0.91	0.27	-	50,50,50,50	0
56	MG	CA	1748	1/1	0.90	0.14	-	60,60,60,60	0
56	MG	DA	3648	1/1	0.94	0.12	-	42,42,42,42	0
56	MG	BA	3226	1/1	0.99	0.12	-	24,24,24,24	0
56	MG	AA	1903	1/1	0.97	0.13	-	39,39,39,39	0
56	MG	BA	3617	1/1	0.99	0.06	-	32,32,32,32	0
56	MG	BA	3400	1/1	0.88	0.18	-	35,35,35,35	0
56	MG	DA	3601	1/1	0.91	0.12	-	45,45,45,45	0
56	MG	CA	1601	1/1	0.97	0.10	-	54,54,54,54	0
56	MG	DA	3640	1/1	0.93	0.28	-	40,40,40,40	0
56	MG	DA	3296	1/1	0.97	0.09	-	4,4,4,4	0
56	MG	BA	3656	1/1	0.87	0.39	-	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	DA	3076	1/1	0.93	0.15	-	51,51,51,51	0
56	MG	AA	1758	1/1	0.94	0.11	-	47,47,47,47	0
56	MG	BA	3743	1/1	0.93	0.09	-	34,34,34,34	0
56	MG	CA	1758	1/1	0.93	0.07	-	37,37,37,37	0
56	MG	CA	1953	1/1	0.97	0.12	-	18,18,18,18	0
56	MG	DA	3149	1/1	0.97	0.29	-	37,37,37,37	0
56	MG	AX	404	1/1	0.59	0.18	-	68,68,68,68	0
56	MG	BA	3090	1/1	0.97	0.06	-	56,56,56,56	0
56	MG	DA	3009	1/1	0.98	0.10	-	8,8,8,8	0
56	MG	AA	1820	1/1	0.94	0.06	-	23,23,23,23	0
56	MG	AA	1746	1/1	0.98	0.10	-	14,14,14,14	0
56	MG	BA	3387	1/1	0.95	0.19	-	49,49,49,49	0
56	MG	CZ	108	1/1	0.95	0.07	-	49,49,49,49	0
56	MG	DA	3337	1/1	0.98	0.07	-	23,23,23,23	0
56	MG	CA	1662	1/1	0.99	0.04	-	12,12,12,12	0
56	MG	DA	3639	1/1	0.95	0.16	-	13,13,13,13	0
56	MG	CA	1828	1/1	0.98	0.10	-	2,2,2,2	0
56	MG	DA	3699	1/1	0.97	0.47	-	38,38,38,38	0
56	MG	AA	1776	1/1	0.97	0.08	-	11,11,11,11	0
56	MG	BB	223	1/1	0.90	0.24	-	52,52,52,52	0
56	MG	DP	203	1/1	0.92	0.19	-	43,43,43,43	0
56	MG	BA	3129	1/1	0.94	0.16	-	34,34,34,34	0
56	MG	AA	1612	1/1	0.96	0.12	-	14,14,14,14	0
56	MG	BA	3306	1/1	0.97	0.06	-	36,36,36,36	0
56	MG	CA	1944	1/1	0.96	0.23	-	42,42,42,42	0
56	MG	DB	209	1/1	0.95	0.07	-	43,43,43,43	0
56	MG	BA	3778	1/1	0.94	0.12	-	33,33,33,33	0
56	MG	DA	3677	1/1	0.97	0.22	-	27,27,27,27	0
56	MG	CA	1729	1/1	0.98	0.23	-	15,15,15,15	0
56	MG	BA	3521	1/1	0.95	0.06	-	21,21,21,21	0
56	MG	CA	1958	1/1	0.96	0.14	-	51,51,51,51	0
56	MG	BA	3545	1/1	0.99	0.12	-	25,25,25,25	0
56	MG	CA	1852	1/1	0.97	0.09	-	43,43,43,43	0
56	MG	DA	3365	1/1	0.96	0.11	-	8,8,8,8	0
56	MG	DA	3730	1/1	0.95	0.19	-	33,33,33,33	0
56	MG	AA	1763	1/1	0.99	0.12	-	30,30,30,30	0
56	MG	BA	3245	1/1	0.98	0.10	-	29,29,29,29	0
56	MG	CA	1630	1/1	0.96	0.07	-	36,36,36,36	0
56	MG	DA	3261	1/1	0.99	0.06	-	33,33,33,33	0
56	MG	CA	1981	1/1	0.78	0.11	-	77,77,77,77	0
56	MG	DA	3517	1/1	0.97	0.06	-	48,48,48,48	0
56	MG	BA	3779	1/1	0.94	0.13	-	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	DA	3058	1/1	0.99	0.06	-	15,15,15,15	0
56	MG	CA	1951	1/1	0.94	0.12	-	42,42,42,42	0
56	MG	AA	1630	1/1	0.92	0.15	-	58,58,58,58	0
56	MG	CA	1747	1/1	0.90	0.15	-	31,31,31,31	0
56	MG	CA	1607	1/1	0.90	0.08	-	38,38,38,38	0
56	MG	AA	1767	1/1	0.94	0.38	-	28,28,28,28	0
56	MG	DA	3299	1/1	0.97	0.07	-	1,1,1,1	0
56	MG	DA	3420	1/1	0.95	0.36	-	45,45,45,45	0
56	MG	AA	1747	1/1	0.95	0.13	-	40,40,40,40	0
56	MG	DA	3659	1/1	0.56	0.33	-	66,66,66,66	0
56	MG	AA	1901	1/1	0.89	0.20	-	43,43,43,43	0
56	MG	DA	3527	1/1	0.92	0.11	-	49,49,49,49	0
56	MG	CA	1835	1/1	0.93	0.26	-	46,46,46,46	0
56	MG	BA	3738	1/1	0.97	0.36	-	44,44,44,44	0
56	MG	BA	3215	1/1	0.98	0.08	-	28,28,28,28	0
56	MG	DA	3182	1/1	0.99	0.07	-	23,23,23,23	0
56	MG	BA	3112	1/1	0.98	0.08	-	26,26,26,26	0
56	MG	BI	201	1/1	0.98	0.24	-	29,29,29,29	0
56	MG	DA	3477	1/1	0.93	0.15	-	32,32,32,32	0
56	MG	DA	3626	1/1	0.98	0.15	-	46,46,46,46	0
56	MG	CA	1927	1/1	0.96	0.10	-	37,37,37,37	0
56	MG	DA	3172	1/1	0.95	0.11	-	31,31,31,31	0
56	MG	DA	3231	1/1	0.95	0.08	-	3,3,3,3	0
56	MG	DA	3382	1/1	0.98	0.07	-	39,39,39,39	0
56	MG	BA	3787	1/1	0.99	0.08	-	11,11,11,11	0
56	MG	DA	3147	1/1	0.98	0.10	-	18,18,18,18	0
56	MG	BA	3437	1/1	0.92	0.11	-	26,26,26,26	0
56	MG	BA	3460	1/1	0.99	0.09	-	10,10,10,10	0
56	MG	BA	3284	1/1	0.99	0.07	-	12,12,12,12	0
56	MG	BA	3359	1/1	0.96	0.12	-	21,21,21,21	0
56	MG	BA	3385	1/1	0.99	0.06	-	18,18,18,18	0
56	MG	AA	1909	1/1	0.99	0.05	-	40,40,40,40	0
56	MG	DA	3334	1/1	0.97	0.11	-	8,8,8,8	0
56	MG	AY	120	1/1	0.97	0.12	-	47,47,47,47	0
56	MG	DA	3753	1/1	0.96	0.33	-	32,32,32,32	0
56	MG	DA	3166	1/1	0.95	0.18	-	44,44,44,44	0
56	MG	AA	1897	1/1	0.99	0.11	-	13,13,13,13	0
56	MG	DA	3575	1/1	0.83	0.27	-	53,53,53,53	0
56	MG	CA	1776	1/1	0.99	0.15	-	17,17,17,17	0
56	MG	BA	3510	1/1	0.98	0.15	-	39,39,39,39	0
56	MG	BA	3292	1/1	0.98	0.08	-	10,10,10,10	0
56	MG	DA	3315	1/1	0.99	0.15	-	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	AA	1671	1/1	0.96	0.08	-	20,20,20,20	0
56	MG	CA	1674	1/1	0.93	0.08	-	63,63,63,63	0
56	MG	AZ	104	1/1	0.96	0.04	-	45,45,45,45	0
56	MG	BA	3744	1/1	0.97	0.35	-	21,21,21,21	0
56	MG	CA	1915	1/1	0.92	0.27	-	56,56,56,56	0
56	MG	BA	3424	1/1	0.95	0.07	-	17,17,17,17	0
56	MG	DZ	304	1/1	0.95	0.18	-	31,31,31,31	0
56	MG	DA	3676	1/1	0.95	0.45	-	25,25,25,25	0
56	MG	CA	1813	1/1	0.99	0.09	-	41,41,41,41	0
56	MG	CA	1934	1/1	0.93	0.22	-	56,56,56,56	0
56	MG	BA	3051	1/1	0.99	0.22	-	16,16,16,16	0
56	MG	BA	3444	1/1	0.98	0.05	-	33,33,33,33	0
56	MG	CA	1890	1/1	0.94	0.17	-	37,37,37,37	0
56	MG	BA	3767	1/1	0.98	0.15	-	20,20,20,20	0
56	MG	DH	202	1/1	0.83	0.16	-	64,64,64,64	0
56	MG	CA	1620	1/1	0.96	0.11	-	38,38,38,38	0
56	MG	BA	3037	1/1	0.98	0.11	-	8,8,8,8	0
56	MG	DB	219	1/1	0.90	0.09	-	55,55,55,55	0
56	MG	DA	3259	1/1	0.94	0.14	-	24,24,24,24	0
56	MG	AA	1627	1/1	0.98	0.06	-	29,29,29,29	0
56	MG	DA	3043	1/1	0.97	0.06	-	25,25,25,25	0
56	MG	BA	3669	1/1	0.90	0.40	-	33,33,33,33	0
56	MG	BA	3518	1/1	0.97	0.11	-	9,9,9,9	0
56	MG	CA	1713	1/1	0.92	0.13	-	21,21,21,21	0
56	MG	BA	3257	1/1	0.98	0.06	-	18,18,18,18	0
56	MG	DA	3300	1/1	0.99	0.04	-	16,16,16,16	0
56	MG	CY	104	1/1	0.97	0.07	-	20,20,20,20	0
56	MG	DB	210	1/1	0.86	0.15	-	44,44,44,44	0
56	MG	BA	3525	1/1	0.99	0.06	-	8,8,8,8	0
56	MG	DA	3482	1/1	0.89	0.25	-	42,42,42,42	0
56	MG	DA	3758	1/1	0.86	0.51	-	63,63,63,63	0
56	MG	DA	3658	1/1	0.88	0.22	-	61,61,61,61	0
56	MG	CA	1785	1/1	0.99	0.07	-	9,9,9,9	0
56	MG	DA	3582	1/1	0.97	0.18	-	27,27,27,27	0
56	MG	BA	3331	1/1	0.99	0.06	-	10,10,10,10	0
56	MG	BA	3398	1/1	0.98	0.28	-	16,16,16,16	0
56	MG	AA	1864	1/1	0.97	0.20	-	36,36,36,36	0
56	MG	DA	3395	1/1	0.94	0.14	-	34,34,34,34	0
56	MG	DA	3705	1/1	0.95	0.19	-	39,39,39,39	0
56	MG	DA	3467	1/1	0.95	0.11	-	58,58,58,58	0
56	MG	DA	3466	1/1	0.87	0.26	-	47,47,47,47	0
56	MG	BA	3534	1/1	0.98	0.15	-	24,24,24,24	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	CA	1604	1/1	0.97	0.24	-	37,37,37,37	0
56	MG	BA	3357	1/1	0.98	0.06	-	4,4,4,4	0
56	MG	DA	3373	1/1	0.96	0.08	-	41,41,41,41	0
56	MG	BA	3556	1/1	0.99	0.16	-	7,7,7,7	0
56	MG	DA	3398	1/1	0.99	0.13	-	26,26,26,26	0
56	MG	BA	3758	1/1	0.98	0.18	-	24,24,24,24	0
56	MG	CZ	119	1/1	0.92	0.15	-	55,55,55,55	0
56	MG	DA	3287	1/1	0.90	0.14	-	62,62,62,62	0
56	MG	DA	3664	1/1	0.91	0.25	-	39,39,39,39	0
56	MG	BA	3573	1/1	0.98	0.08	-	30,30,30,30	0
56	MG	DA	3741	1/1	0.92	0.18	-	25,25,25,25	0
56	MG	CA	1984	1/1	0.96	0.17	-	54,54,54,54	0
56	MG	BJ	201	1/1	0.88	0.10	-	59,59,59,59	0
56	MG	BA	3603	1/1	0.96	0.07	-	26,26,26,26	0
56	MG	DA	3062	1/1	0.96	0.12	-	31,31,31,31	0
56	MG	DA	3516	1/1	0.82	0.46	-	62,62,62,62	0
56	MG	AA	1783	1/1	0.98	0.18	-	50,50,50,50	0
56	MG	AA	1900	1/1	0.95	0.12	-	44,44,44,44	0
56	MG	DA	3225	1/1	0.99	0.10	-	27,27,27,27	0
56	MG	CA	2004	1/1	0.93	0.10	-	45,45,45,45	0
56	MG	BA	3492	1/1	0.97	0.08	-	47,47,47,47	0
56	MG	BA	3599	1/1	0.97	0.15	-	34,34,34,34	0
56	MG	AA	1670	1/1	0.98	0.04	-	22,22,22,22	0
56	MG	BA	3167	1/1	0.94	0.17	-	34,34,34,34	0
56	MG	CY	111	1/1	0.96	0.27	-	39,39,39,39	0
56	MG	CA	1657	1/1	0.92	0.13	-	42,42,42,42	0
56	MG	DA	3322	1/1	0.91	0.13	-	46,46,46,46	0
56	MG	DA	3555	1/1	0.98	0.10	-	24,24,24,24	0
56	MG	BA	3089	1/1	0.98	0.07	-	17,17,17,17	0
56	MG	AZ	101	1/1	0.99	0.21	-	42,42,42,42	0
56	MG	CV	101	1/1	0.96	0.08	-	37,37,37,37	0
56	MG	BA	3287	1/1	0.97	0.11	-	27,27,27,27	0
56	MG	CZ	102	1/1	0.92	0.12	-	67,67,67,67	0
56	MG	BA	3415	1/1	0.78	0.26	-	52,52,52,52	0
56	MG	BA	3320	1/1	0.98	0.14	-	2,2,2,2	0
56	MG	CA	1667	1/1	0.97	0.10	-	21,21,21,21	0
56	MG	DA	3702	1/1	0.94	0.29	-	42,42,42,42	0
56	MG	CA	1769	1/1	0.92	0.11	-	56,56,56,56	0
56	MG	BA	3515	1/1	0.96	0.11	-	9,9,9,9	0
56	MG	CA	1922	1/1	0.97	0.09	-	33,33,33,33	0
56	MG	BA	3036	1/1	0.92	0.19	-	32,32,32,32	0
56	MG	DA	3213	1/1	0.95	0.09	-	18,18,18,18	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	CA	1942	1/1	0.95	0.37	-	41,41,41,41	0
56	MG	AA	1660	1/1	0.98	0.07	-	19,19,19,19	0
56	MG	DA	3518	1/1	0.95	0.12	-	13,13,13,13	0
56	MG	DA	3145	1/1	0.92	0.11	-	30,30,30,30	0
56	MG	BA	3446	1/1	0.98	0.11	-	39,39,39,39	0
56	MG	BA	3430	1/1	0.98	0.17	-	32,32,32,32	0
56	MG	AA	1750	1/1	0.92	0.12	-	50,50,50,50	0
56	MG	BA	3539	1/1	0.92	0.11	-	77,77,77,77	0
56	MG	CA	1727	1/1	0.93	0.09	-	55,55,55,55	0
56	MG	DA	3440	1/1	0.86	0.16	-	71,71,71,71	0
56	MG	DA	3551	1/1	0.99	0.16	-	17,17,17,17	0
56	MG	DA	3346	1/1	0.99	0.07	-	3,3,3,3	0
56	MG	CC	304	1/1	0.87	0.19	-	93,93,93,93	0
56	MG	BA	3098	1/1	0.96	0.09	-	28,28,28,28	0
56	MG	DA	3691	1/1	0.96	0.14	-	50,50,50,50	0
56	MG	BA	3347	1/1	0.94	0.20	-	19,19,19,19	0
56	MG	BA	3439	1/1	0.99	0.04	-	7,7,7,7	0
56	MG	BA	3535	1/1	0.94	0.12	-	43,43,43,43	0
56	MG	AY	125	1/1	0.90	0.11	-	51,51,51,51	0
56	MG	AA	1603	1/1	0.95	0.10	-	30,30,30,30	0
56	MG	BA	3238	1/1	0.99	0.17	-	14,14,14,14	0
56	MG	AA	1610	1/1	0.99	0.22	-	23,23,23,23	0
56	MG	DA	3540	1/1	0.99	0.17	-	0,0,0,0	0
56	MG	DA	3124	1/1	0.96	0.08	-	27,27,27,27	0
56	MG	CA	2010	1/1	0.97	0.09	-	35,35,35,35	0
56	MG	AA	1649	1/1	0.95	0.16	-	41,41,41,41	0
56	MG	DA	3578	1/1	0.99	0.07	-	11,11,11,11	0
56	MG	BA	3256	1/1	0.98	0.05	-	13,13,13,13	0
56	MG	AA	1772	1/1	0.99	0.06	-	17,17,17,17	0
56	MG	DA	3049	1/1	0.98	0.08	-	11,11,11,11	0
56	MG	CA	1921	1/1	0.96	0.33	-	57,57,57,57	0
56	MG	DA	3612	1/1	0.97	0.19	-	41,41,41,41	0
56	MG	AA	1879	1/1	0.96	0.08	-	58,58,58,58	0
56	MG	AA	1805	1/1	0.94	0.11	-	53,53,53,53	0
56	MG	BA	3751	1/1	0.96	0.15	-	53,53,53,53	0
56	MG	BA	3280	1/1	0.97	0.20	-	26,26,26,26	0
56	MG	BA	3450	1/1	0.93	0.20	-	43,43,43,43	0
56	MG	CA	1962	1/1	0.97	0.26	-	41,41,41,41	0
56	MG	DP	202	1/1	0.93	0.19	-	44,44,44,44	0
56	MG	DA	3161	1/1	1.00	0.25	-	1,1,1,1	0
56	MG	BA	3651	1/1	0.91	0.16	-	34,34,34,34	0
56	MG	BA	3285	1/1	0.94	0.11	-	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	CL	201	1/1	0.92	0.18	-	61,61,61,61	0
56	MG	BA	3274	1/1	0.99	0.09	-	6,6,6,6	0
56	MG	CA	1872	1/1	0.95	0.13	-	24,24,24,24	0
56	MG	AY	117	1/1	0.96	0.21	-	32,32,32,32	0
56	MG	AO	102	1/1	0.92	0.34	-	36,36,36,36	0
56	MG	DA	3192	1/1	0.70	0.11	-	67,67,67,67	0
56	MG	DA	3204	1/1	0.98	0.07	-	28,28,28,28	0
56	MG	DA	3361	1/1	0.99	0.30	-	19,19,19,19	0
56	MG	CC	302	1/1	0.89	0.14	-	56,56,56,56	0
56	MG	BA	3103	1/1	0.98	0.18	-	35,35,35,35	0
56	MG	BA	3563	1/1	0.97	0.29	-	55,55,55,55	0
56	MG	AA	1622	1/1	0.97	0.11	-	24,24,24,24	0
56	MG	DB	228	1/1	0.87	0.21	-	46,46,46,46	0
56	MG	DA	3363	1/1	0.98	0.12	-	36,36,36,36	0
56	MG	DA	3228	1/1	0.98	0.14	-	12,12,12,12	0
56	MG	DA	3599	1/1	0.95	0.18	-	39,39,39,39	0
56	MG	BA	3252	1/1	0.99	0.21	-	7,7,7,7	0
56	MG	AY	111	1/1	0.97	0.09	-	34,34,34,34	0
56	MG	AY	103	1/1	0.95	0.12	-	53,53,53,53	0
56	MG	DA	3088	1/1	0.96	0.14	-	19,19,19,19	0
56	MG	CA	1949	1/1	0.97	0.10	-	37,37,37,37	0
56	MG	DA	3280	1/1	0.99	0.04	-	3,3,3,3	0
56	MG	AA	1814	1/1	0.94	0.13	-	17,17,17,17	0
56	MG	DA	3007	1/1	0.97	0.23	-	24,24,24,24	0
56	MG	BA	3139	1/1	0.98	0.05	-	33,33,33,33	0
56	MG	DA	3646	1/1	0.84	0.16	-	55,55,55,55	0
56	MG	CA	1851	1/1	0.92	0.08	-	34,34,34,34	0
56	MG	AA	1744	1/1	0.98	0.05	-	30,30,30,30	0
56	MG	AA	1662	1/1	0.96	0.17	-	48,48,48,48	0
56	MG	DA	3174	1/1	0.95	0.16	-	33,33,33,33	0
56	MG	CA	1754	1/1	0.84	0.24	-	59,59,59,59	0
56	MG	BA	3110	1/1	0.95	0.10	-	35,35,35,35	0
56	MG	AZ	103	1/1	0.96	0.09	-	34,34,34,34	0
56	MG	CY	119	1/1	0.97	0.38	-	35,35,35,35	0
56	MG	CA	1736	1/1	0.94	0.11	-	52,52,52,52	0
56	MG	BA	3230	1/1	0.97	0.17	-	0,0,0,0	0
56	MG	BA	3405	1/1	0.97	0.11	-	20,20,20,20	0
56	MG	BA	3793	1/1	0.98	0.07	-	31,31,31,31	0
56	MG	DA	3503	1/1	0.99	0.07	-	24,24,24,24	0
56	MG	BA	3007	1/1	0.98	0.07	-	34,34,34,34	0
56	MG	BA	3286	1/1	0.98	0.09	-	1,1,1,1	0
56	MG	BA	3373	1/1	0.97	0.10	-	24,24,24,24	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	AA	1881	1/1	0.95	0.15	-	76,76,76,76	0
56	MG	AA	1611	1/1	0.99	0.07	-	6,6,6,6	0
56	MG	DA	3556	1/1	0.92	0.18	-	20,20,20,20	0
56	MG	BB	210	1/1	0.95	0.14	-	62,62,62,62	0
56	MG	DA	3366	1/1	0.96	0.19	-	21,21,21,21	0
56	MG	AB	302	1/1	0.98	0.10	-	33,33,33,33	0
56	MG	DA	3408	1/1	0.98	0.14	-	31,31,31,31	0
56	MG	BA	3737	1/1	0.98	0.26	-	22,22,22,22	0
56	MG	AA	1799	1/1	0.91	0.24	-	49,49,49,49	0
56	MG	AA	1801	1/1	0.99	0.05	-	21,21,21,21	0
56	MG	CA	1632	1/1	0.98	0.05	-	24,24,24,24	0
56	MG	DA	3248	1/1	0.99	0.15	-	19,19,19,19	0
56	MG	AA	1806	1/1	0.95	0.12	-	34,34,34,34	0
56	MG	CA	1782	1/1	0.97	0.09	-	19,19,19,19	0
56	MG	DA	3592	1/1	0.97	0.29	-	47,47,47,47	0
56	MG	BA	3685	1/1	0.96	0.33	-	37,37,37,37	0
56	MG	DA	3755	1/1	0.93	0.35	-	39,39,39,39	0
56	MG	DA	3235	1/1	0.98	0.10	-	0,0,0,0	0
56	MG	BA	3540	1/1	0.99	0.08	-	23,23,23,23	0
56	MG	DA	3434	1/1	0.94	0.13	-	29,29,29,29	0
56	MG	BA	3544	1/1	0.90	0.40	-	38,38,38,38	0
56	MG	AA	1686	1/1	0.92	0.15	-	37,37,37,37	0
56	MG	AD	309	1/1	0.96	0.33	-	36,36,36,36	0
56	MG	AA	1790	1/1	0.96	0.18	-	32,32,32,32	0
56	MG	AA	1718	1/1	0.98	0.09	-	27,27,27,27	0
56	MG	BA	3500	1/1	0.96	0.16	-	16,16,16,16	0
56	MG	BA	3591	1/1	0.94	0.10	-	50,50,50,50	0
56	MG	BA	3406	1/1	0.97	0.13	-	42,42,42,42	0
56	MG	DA	3115	1/1	0.98	0.17	-	5,5,5,5	0
56	MG	BA	3040	1/1	0.95	0.17	-	35,35,35,35	0
56	MG	BI	203	1/1	0.97	0.30	-	40,40,40,40	0
56	MG	AD	308	1/1	0.97	0.09	-	42,42,42,42	0
56	MG	DA	3425	1/1	0.92	0.17	-	43,43,43,43	0
56	MG	CA	1791	1/1	0.99	0.06	-	43,43,43,43	0
56	MG	CA	1857	1/1	0.94	0.19	-	33,33,33,33	0
56	MG	DA	3211	1/1	0.97	0.09	-	23,23,23,23	0
56	MG	DH	201	1/1	0.91	0.15	-	46,46,46,46	0
56	MG	BA	3265	1/1	0.97	0.19	-	0,0,0,0	0
56	MG	AY	110	1/1	0.85	0.10	-	53,53,53,53	0
56	MG	AZ	105	1/1	0.96	0.10	-	44,44,44,44	0
56	MG	CA	1968	1/1	0.98	0.21	-	25,25,25,25	0
56	MG	CA	1850	1/1	0.98	0.10	-	20,20,20,20	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	BA	3533	1/1	0.92	0.13	-	37,37,37,37	0
56	MG	DA	3083	1/1	0.97	0.15	-	24,24,24,24	0
56	MG	BA	3443	1/1	0.97	0.28	-	29,29,29,29	0
56	MG	BB	222	1/1	0.98	0.20	-	39,39,39,39	0
56	MG	CA	1740	1/1	0.98	0.07	-	8,8,8,8	0
56	MG	DA	3186	1/1	0.98	0.06	-	47,47,47,47	0
56	MG	DA	3303	1/1	0.99	0.08	-	12,12,12,12	0
56	MG	BA	3328	1/1	0.99	0.07	-	2,2,2,2	0
56	MG	DA	3347	1/1	0.99	0.27	-	10,10,10,10	0
56	MG	DA	3657	1/1	0.95	0.27	-	38,38,38,38	0
56	MG	DA	3026	1/1	0.95	0.05	-	16,16,16,16	0
56	MG	BA	3001	1/1	0.97	0.11	-	26,26,26,26	0
56	MG	CA	1888	1/1	0.93	0.21	-	51,51,51,51	0
56	MG	CA	1938	1/1	0.96	0.40	-	48,48,48,48	0
56	MG	BA	3721	1/1	0.96	0.17	-	34,34,34,34	0
56	MG	BA	3369	1/1	0.93	0.42	-	48,48,48,48	0
56	MG	BA	3562	1/1	0.86	0.20	-	29,29,29,29	0
56	MG	AQ	201	1/1	0.97	0.50	-	47,47,47,47	0
56	MG	D4	101	1/1	0.96	0.05	-	23,23,23,23	0
56	MG	AA	1858	1/1	0.99	0.05	-	15,15,15,15	0
56	MG	BA	3341	1/1	0.97	0.13	-	26,26,26,26	0
56	MG	AA	1667	1/1	0.96	0.15	-	38,38,38,38	0
56	MG	DA	3176	1/1	0.83	0.20	-	46,46,46,46	0
56	MG	CA	1636	1/1	0.94	0.09	-	40,40,40,40	0
56	MG	BA	3507	1/1	0.99	0.11	-	29,29,29,29	0
56	MG	CA	1605	1/1	0.96	0.13	-	27,27,27,27	0
56	MG	BA	3475	1/1	0.96	0.14	-	15,15,15,15	0
56	MG	DA	3444	1/1	0.94	0.16	-	11,11,11,11	0
56	MG	BA	3346	1/1	0.94	0.15	-	18,18,18,18	0
56	MG	AY	107	1/1	0.98	0.09	-	18,18,18,18	0
56	MG	BA	3414	1/1	0.99	0.09	-	24,24,24,24	0
56	MG	BA	3177	1/1	0.98	0.10	-	0,0,0,0	0
56	MG	DA	3475	1/1	0.95	0.13	-	34,34,34,34	0
56	MG	AA	1829	1/1	0.91	0.24	-	68,68,68,68	0
56	MG	BA	3179	1/1	0.95	0.15	-	26,26,26,26	0
56	MG	CA	1974	1/1	0.74	0.21	-	54,54,54,54	0
56	MG	DA	3170	1/1	0.97	0.12	-	8,8,8,8	0
56	MG	CH	201	1/1	0.80	0.72	-	51,51,51,51	0
56	MG	DA	3613	1/1	0.98	0.18	-	26,26,26,26	0
56	MG	BA	3194	1/1	0.99	0.07	-	21,21,21,21	0
56	MG	AA	1728	1/1	0.96	0.10	-	14,14,14,14	0
56	MG	DA	3389	1/1	0.94	0.17	-	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	CA	1681	1/1	0.92	0.28	-	43,43,43,43	0
56	MG	CV	103	1/1	0.99	0.12	-	29,29,29,29	0
56	MG	CA	1786	1/1	0.96	0.38	-	19,19,19,19	0
56	MG	CA	1841	1/1	0.91	0.06	-	63,63,63,63	0
56	MG	DA	3153	1/1	0.98	0.07	-	10,10,10,10	0
56	MG	DA	3250	1/1	0.97	0.17	-	32,32,32,32	0
56	MG	DA	3392	1/1	0.99	0.06	-	4,4,4,4	0
56	MG	BA	3467	1/1	0.91	0.23	-	35,35,35,35	0
56	MG	DA	3643	1/1	0.99	0.07	-	28,28,28,28	0
56	MG	DA	3678	1/1	0.97	0.09	-	20,20,20,20	0
56	MG	DA	3205	1/1	0.94	0.20	-	24,24,24,24	0
56	MG	CA	1811	1/1	0.98	0.10	-	43,43,43,43	0
56	MG	CA	1901	1/1	0.97	0.12	-	7,7,7,7	0
56	MG	DI	202	1/1	0.98	0.08	-	18,18,18,18	0
56	MG	CA	1677	1/1	0.95	0.10	-	27,27,27,27	0
56	MG	CA	1743	1/1	0.96	0.20	-	30,30,30,30	0
56	MG	CA	1772	1/1	0.93	0.28	-	40,40,40,40	0
56	MG	BA	3699	1/1	0.98	0.55	-	35,35,35,35	0
56	MG	BA	3143	1/1	0.97	0.15	-	40,40,40,40	0
56	MG	BA	3220	1/1	0.91	0.31	-	55,55,55,55	0
56	MG	BA	3723	1/1	0.93	0.15	-	18,18,18,18	0
56	MG	DA	3060	1/1	0.97	0.06	-	19,19,19,19	0
56	MG	DA	3573	1/1	0.97	0.10	-	25,25,25,25	0
56	MG	DA	3628	1/1	0.95	0.15	-	38,38,38,38	0
56	MG	BA	3010	1/1	0.97	0.13	-	2,2,2,2	0
56	MG	CA	1943	1/1	0.95	0.37	-	48,48,48,48	0
56	MG	CA	1877	1/1	0.93	0.59	-	60,60,60,60	0
56	MG	BA	3114	1/1	0.94	0.39	-	47,47,47,47	0
56	MG	BA	3050	1/1	0.98	0.07	-	4,4,4,4	0
56	MG	CA	1898	1/1	0.98	0.21	-	14,14,14,14	0
56	MG	BA	3633	1/1	0.92	0.18	-	20,20,20,20	0
56	MG	CA	1663	1/1	0.98	0.05	-	8,8,8,8	0
56	MG	BA	3806	1/1	0.83	0.15	-	54,54,54,54	0
56	MG	B7	102	1/1	0.98	0.09	-	13,13,13,13	0
56	MG	BA	3352	1/1	0.96	0.10	-	36,36,36,36	0
56	MG	BU	201	1/1	0.94	0.51	-	35,35,35,35	0
56	MG	DA	3015	1/1	0.96	0.11	-	11,11,11,11	0
56	MG	BA	3642	1/1	0.93	0.17	-	68,68,68,68	0
56	MG	AA	1777	1/1	0.95	0.26	-	36,36,36,36	0
56	MG	DA	3247	1/1	0.93	0.08	-	21,21,21,21	0
56	MG	BT	202	1/1	0.97	0.10	-	42,42,42,42	0
56	MG	DA	3407	1/1	0.98	0.07	-	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	CA	1812	1/1	0.94	0.11	-	51,51,51,51	0
56	MG	DA	3649	1/1	0.98	0.08	-	19,19,19,19	0
56	MG	AA	1721	1/1	0.99	0.04	-	0,0,0,0	0
56	MG	BA	3196	1/1	0.95	0.09	-	44,44,44,44	0
56	MG	BG	201	1/1	0.96	0.15	-	47,47,47,47	0
56	MG	AA	1664	1/1	0.99	0.10	-	6,6,6,6	0
56	MG	CA	1864	1/1	0.97	0.23	-	40,40,40,40	0
56	MG	BA	3470	1/1	0.96	0.23	-	51,51,51,51	0
56	MG	CA	1907	1/1	0.97	0.08	-	31,31,31,31	0
56	MG	BA	3759	1/1	0.98	0.09	-	41,41,41,41	0
56	MG	AA	1665	1/1	0.98	0.07	-	6,6,6,6	0
56	MG	DA	3439	1/1	0.99	0.26	-	17,17,17,17	0
56	MG	CA	1900	1/1	0.97	0.10	-	56,56,56,56	0
56	MG	CI	201	1/1	0.96	0.16	-	45,45,45,45	0
56	MG	BA	3131	1/1	0.98	0.12	-	30,30,30,30	0
56	MG	BA	3124	1/1	0.98	0.16	-	33,33,33,33	0
56	MG	D5	101	1/1	0.99	0.06	-	2,2,2,2	0
56	MG	DA	3416	1/1	0.99	0.08	-	26,26,26,26	0
56	MG	AA	1766	1/1	0.99	0.09	-	18,18,18,18	0
56	MG	CA	1905	1/1	0.79	0.41	-	64,64,64,64	0
56	MG	BA	3303	1/1	0.98	0.05	-	22,22,22,22	0
56	MG	CA	1638	1/1	0.93	0.11	-	26,26,26,26	0
56	MG	BA	3569	1/1	0.99	0.06	-	0,0,0,0	0
56	MG	DA	3210	1/1	0.96	0.11	-	27,27,27,27	0
56	MG	DA	3641	1/1	0.99	0.18	-	13,13,13,13	0
56	MG	BA	3183	1/1	0.98	0.09	-	15,15,15,15	0
56	MG	BA	3107	1/1	0.98	0.08	-	21,21,21,21	0
56	MG	BA	3532	1/1	0.96	0.23	-	56,56,56,56	0
56	MG	BA	3130	1/1	0.91	0.11	-	36,36,36,36	0
56	MG	DA	3692	1/1	0.91	0.18	-	46,46,46,46	0
56	MG	DA	3224	1/1	0.98	0.07	-	9,9,9,9	0
56	MG	D4	102	1/1	0.97	0.22	-	40,40,40,40	0
56	MG	BA	3635	1/1	0.97	0.13	-	32,32,32,32	0
56	MG	DA	3044	1/1	0.99	0.16	-	5,5,5,5	0
56	MG	BA	3570	1/1	0.98	0.14	-	21,21,21,21	0
56	MG	AL	201	1/1	0.93	0.09	-	29,29,29,29	0
56	MG	DA	3567	1/1	0.88	0.12	-	74,74,74,74	0
56	MG	BA	3017	1/1	0.98	0.12	-	18,18,18,18	0
56	MG	BA	3272	1/1	0.94	0.10	-	15,15,15,15	0
56	MG	BA	3371	1/1	0.96	0.22	-	29,29,29,29	0
56	MG	BA	3774	1/1	0.97	0.12	-	44,44,44,44	0
56	MG	BA	3403	1/1	0.96	0.15	-	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	BA	3614	1/1	0.98	0.22	-	32,32,32,32	0
56	MG	DA	3152	1/1	0.98	0.11	-	28,28,28,28	0
56	MG	BA	3782	1/1	0.93	0.18	-	19,19,19,19	0
56	MG	DA	3391	1/1	0.98	0.09	-	17,17,17,17	0
56	MG	AA	1821	1/1	0.98	0.08	-	27,27,27,27	0
56	MG	DA	3390	1/1	0.88	0.23	-	36,36,36,36	0
56	MG	DA	3468	1/1	0.86	0.12	-	30,30,30,30	0
56	MG	AY	102	1/1	0.99	0.10	-	32,32,32,32	0
56	MG	AA	1705	1/1	0.96	0.14	-	29,29,29,29	0
56	MG	BQ	203	1/1	0.99	0.11	-	43,43,43,43	0
56	MG	CA	1821	1/1	0.97	0.09	-	22,22,22,22	0
56	MG	DA	3607	1/1	0.93	0.22	-	44,44,44,44	0
56	MG	CA	1702	1/1	0.89	0.06	-	56,56,56,56	0
56	MG	BA	3271	1/1	0.99	0.11	-	0,0,0,0	0
56	MG	CA	1891	1/1	0.92	0.10	-	30,30,30,30	0
56	MG	BA	3625	1/1	0.98	0.07	-	25,25,25,25	0
56	MG	DB	203	1/1	0.97	0.07	-	21,21,21,21	0
56	MG	BA	3555	1/1	0.81	0.11	-	54,54,54,54	0
56	MG	DA	3569	1/1	0.95	0.24	-	39,39,39,39	0
56	MG	BA	3421	1/1	0.97	0.20	-	45,45,45,45	0
56	MG	DA	3374	1/1	0.97	0.13	-	24,24,24,24	0
56	MG	BA	3422	1/1	0.95	0.14	-	24,24,24,24	0
56	MG	DA	3351	1/1	0.78	0.20	-	38,38,38,38	0
56	MG	BA	3703	1/1	0.91	0.10	-	29,29,29,29	0
56	MG	CV	102	1/1	0.97	0.13	-	25,25,25,25	0
56	MG	BA	3019	1/1	0.99	0.14	-	5,5,5,5	0
56	MG	BA	3427	1/1	0.97	0.14	-	10,10,10,10	0
56	MG	CA	1838	1/1	0.98	0.14	-	28,28,28,28	0
56	MG	DA	3331	1/1	0.99	0.11	-	0,0,0,0	0
56	MG	AD	302	1/1	0.99	0.04	-	13,13,13,13	0
56	MG	CA	1908	1/1	0.98	0.06	-	5,5,5,5	0
56	MG	BA	3315	1/1	0.83	0.38	-	64,64,64,64	0
56	MG	BA	3649	1/1	0.92	0.12	-	29,29,29,29	0
56	MG	CX	403	1/1	0.95	0.09	-	48,48,48,48	0
56	MG	BW	202	1/1	0.93	0.25	-	33,33,33,33	0
56	MG	AA	1689	1/1	0.97	0.08	-	39,39,39,39	0
56	MG	BA	3709	1/1	0.94	0.19	-	31,31,31,31	0
56	MG	AA	1826	1/1	0.98	0.08	-	35,35,35,35	0
56	MG	BA	3730	1/1	0.89	0.21	-	40,40,40,40	0
56	MG	AA	1745	1/1	0.96	0.13	-	62,62,62,62	0
56	MG	DA	3039	1/1	0.95	0.15	-	17,17,17,17	0
56	MG	BA	3594	1/1	0.96	0.14	-	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	DP	205	1/1	0.85	0.25	-	42,42,42,42	0
56	MG	AA	1854	1/1	0.96	0.09	-	44,44,44,44	0
56	MG	DA	3270	1/1	0.96	0.08	-	35,35,35,35	0
56	MG	DA	3290	1/1	0.98	0.13	-	25,25,25,25	0
56	MG	DA	3718	1/1	0.85	0.44	-	60,60,60,60	0
56	MG	CA	1937	1/1	0.88	0.50	-	56,56,56,56	0
56	MG	DA	3359	1/1	0.95	0.28	-	19,19,19,19	0
56	MG	AA	1690	1/1	0.97	0.09	-	47,47,47,47	0
56	MG	DA	3684	1/1	0.93	0.16	-	50,50,50,50	0
56	MG	DA	3307	1/1	0.97	0.12	-	47,47,47,47	0
56	MG	DA	3221	1/1	0.98	0.14	-	11,11,11,11	0
56	MG	CA	1950	1/1	0.83	0.24	-	67,67,67,67	0
56	MG	AA	1638	1/1	0.92	0.14	-	22,22,22,22	0
56	MG	AA	1652	1/1	0.97	0.07	-	17,17,17,17	0
56	MG	CA	1973	1/1	0.97	0.11	-	37,37,37,37	0
56	MG	DA	3206	1/1	0.98	0.16	-	20,20,20,20	0
56	MG	CK	202	1/1	0.95	0.09	-	40,40,40,40	0
56	MG	BA	3604	1/1	0.98	0.16	-	36,36,36,36	0
56	MG	BA	3568	1/1	0.99	0.06	-	13,13,13,13	0
56	MG	AA	1873	1/1	0.97	0.10	-	36,36,36,36	0
56	MG	DA	3445	1/1	0.93	0.10	-	31,31,31,31	0
56	MG	BA	3634	1/1	0.99	0.16	-	18,18,18,18	0
56	MG	DA	3698	1/1	0.81	0.65	-	73,73,73,73	0
56	MG	DA	3752	1/1	0.94	0.23	-	55,55,55,55	0
56	MG	DA	3160	1/1	0.98	0.04	-	35,35,35,35	0
56	MG	CA	2000	1/1	0.88	0.12	-	45,45,45,45	0
56	MG	DA	3725	1/1	0.97	0.13	-	44,44,44,44	0
56	MG	BA	3155	1/1	0.99	0.12	-	15,15,15,15	0
56	MG	BA	3148	1/1	0.99	0.05	-	17,17,17,17	0
56	MG	DA	3590	1/1	0.94	0.18	-	37,37,37,37	0
56	MG	CA	1910	1/1	0.99	0.08	-	15,15,15,15	0
56	MG	BA	3489	1/1	0.89	0.12	-	46,46,46,46	0
56	MG	BA	3330	1/1	0.86	0.10	-	45,45,45,45	0
56	MG	BA	3435	1/1	0.99	0.32	-	43,43,43,43	0
56	MG	BA	3574	1/1	0.93	0.16	-	35,35,35,35	0
56	MG	DA	3469	1/1	0.98	0.17	-	19,19,19,19	0
56	MG	CA	1866	1/1	0.96	0.18	-	22,22,22,22	0
56	MG	BA	3706	1/1	0.89	0.08	-	38,38,38,38	0
56	MG	CA	1669	1/1	0.95	0.14	-	52,52,52,52	0
56	MG	AA	1816	1/1	0.98	0.12	-	23,23,23,23	0
56	MG	AC	305	1/1	0.96	0.27	-	45,45,45,45	0
56	MG	DA	3735	1/1	0.94	0.46	-	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	BA	3190	1/1	0.96	0.26	-	36,36,36,36	0
56	MG	CA	1671	1/1	0.91	0.13	-	40,40,40,40	0
56	MG	D3	101	1/1	0.96	0.10	-	43,43,43,43	0
56	MG	BB	209	1/1	0.99	0.06	-	26,26,26,26	0
56	MG	DA	3249	1/1	0.99	0.32	-	32,32,32,32	0
56	MG	CA	1980	1/1	0.98	0.10	-	40,40,40,40	0
56	MG	BA	3305	1/1	1.00	0.09	-	5,5,5,5	0
56	MG	BA	3630	1/1	0.98	0.30	-	41,41,41,41	0
56	MG	DA	3110	1/1	0.91	0.18	-	43,43,43,43	0
56	MG	BA	3063	1/1	0.98	0.05	-	0,0,0,0	0
56	MG	DA	3461	1/1	0.98	0.13	-	8,8,8,8	0
56	MG	DA	3499	1/1	0.94	0.15	-	25,25,25,25	0
56	MG	AA	1786	1/1	0.94	0.27	-	76,76,76,76	0
56	MG	AA	1768	1/1	0.93	0.10	-	32,32,32,32	0
56	MG	CA	1826	1/1	0.67	0.24	-	65,65,65,65	0
56	MG	BA	3598	1/1	0.94	0.19	-	33,33,33,33	0
56	MG	AA	1626	1/1	0.93	0.07	-	47,47,47,47	0
56	MG	CA	1762	1/1	0.94	0.15	-	30,30,30,30	0
56	MG	BA	3123	1/1	0.98	0.11	-	34,34,34,34	0
56	MG	CA	1759	1/1	0.98	0.07	-	25,25,25,25	0
56	MG	CA	1897	1/1	0.97	0.27	-	23,23,23,23	0
56	MG	CA	1916	1/1	0.94	0.17	-	62,62,62,62	0
56	MG	BA	3678	1/1	0.97	0.13	-	42,42,42,42	0
56	MG	DA	3301	1/1	0.98	0.07	-	31,31,31,31	0
56	MG	CA	1790	1/1	0.94	0.09	-	38,38,38,38	0
56	MG	CA	1733	1/1	0.99	0.22	-	52,52,52,52	0
56	MG	BA	3122	1/1	0.89	0.16	-	50,50,50,50	0
56	MG	BA	3198	1/1	0.97	0.07	-	21,21,21,21	0
56	MG	CA	1802	1/1	0.95	0.12	-	31,31,31,31	0
56	MG	CA	1956	1/1	0.98	0.16	-	57,57,57,57	0
56	MG	BA	3768	1/1	0.94	0.18	-	46,46,46,46	0
56	MG	BA	3350	1/1	0.96	0.14	-	32,32,32,32	0
56	MG	BB	201	1/1	0.98	0.09	-	35,35,35,35	0
56	MG	CO	101	1/1	0.99	0.05	-	25,25,25,25	0
56	MG	CA	1957	1/1	0.98	0.22	-	28,28,28,28	0
56	MG	CA	1699	1/1	0.93	0.12	-	45,45,45,45	0
56	MG	DA	3217	1/1	0.98	0.05	-	20,20,20,20	0
56	MG	CA	1815	1/1	0.91	0.12	-	12,12,12,12	0
56	MG	DA	3288	1/1	0.96	0.09	-	12,12,12,12	0
56	MG	AA	1837	1/1	0.94	0.10	-	54,54,54,54	0
56	MG	BA	3365	1/1	0.97	0.23	-	40,40,40,40	0
56	MG	DA	3067	1/1	0.97	0.07	-	17,17,17,17	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	AI	201	1/1	0.95	0.25	-	57,57,57,57	0
56	MG	BA	3527	1/1	0.94	0.21	-	37,37,37,37	0
56	MG	AY	123	1/1	0.96	0.34	-	42,42,42,42	0
56	MG	DA	3459	1/1	0.96	0.14	-	22,22,22,22	0
56	MG	AA	1699	1/1	0.97	0.10	-	35,35,35,35	0
56	MG	BA	3329	1/1	0.93	0.10	-	49,49,49,49	0
56	MG	BA	3777	1/1	0.97	0.06	-	40,40,40,40	0
56	MG	BA	3094	1/1	0.96	0.09	-	23,23,23,23	0
56	MG	BA	3552	1/1	0.97	0.17	-	12,12,12,12	0
56	MG	CA	1894	1/1	0.98	0.06	-	19,19,19,19	0
56	MG	BA	3297	1/1	0.94	0.20	-	50,50,50,50	0
56	MG	DA	3447	1/1	0.98	0.18	-	36,36,36,36	0
56	MG	BA	3392	1/1	0.99	0.15	-	27,27,27,27	0
56	MG	AA	1761	1/1	0.98	0.08	-	26,26,26,26	0
56	MG	DA	3704	1/1	0.97	0.12	-	34,34,34,34	0
56	MG	DA	3173	1/1	0.93	0.13	-	31,31,31,31	0
56	MG	DA	3686	1/1	0.98	0.19	-	30,30,30,30	0
56	MG	CA	1698	1/1	0.97	0.15	-	28,28,28,28	0
56	MG	AA	1631	1/1	0.74	0.19	-	58,58,58,58	0
56	MG	AA	1742	1/1	0.96	0.08	-	17,17,17,17	0
56	MG	DA	3090	1/1	0.98	0.06	-	12,12,12,12	0
56	MG	AA	1694	1/1	0.98	0.25	-	45,45,45,45	0
56	MG	BA	3047	1/1	0.97	0.14	-	17,17,17,17	0
56	MG	DA	3080	1/1	0.99	0.15	-	23,23,23,23	0
56	MG	CC	305	1/1	0.93	0.11	-	46,46,46,46	0
56	MG	AD	307	1/1	0.95	0.42	-	32,32,32,32	0
56	MG	BB	224	1/1	0.99	0.24	-	25,25,25,25	0
56	MG	DA	3368	1/1	0.96	0.10	-	29,29,29,29	0
56	MG	CA	1876	1/1	0.99	0.13	-	22,22,22,22	0
56	MG	BA	3441	1/1	0.98	0.15	-	28,28,28,28	0
56	MG	DA	3747	1/1	0.98	0.12	-	23,23,23,23	0
56	MG	DA	3215	1/1	0.94	0.14	-	41,41,41,41	0
56	MG	CA	1610	1/1	0.93	0.10	-	24,24,24,24	0
56	MG	BA	3336	1/1	0.92	0.14	-	38,38,38,38	0
56	MG	BA	3043	1/1	0.91	0.22	-	30,30,30,30	0
56	MG	BA	3070	1/1	0.94	0.13	-	32,32,32,32	0
56	MG	CA	1881	1/1	0.86	0.46	-	47,47,47,47	0
56	MG	DA	3199	1/1	0.98	0.14	-	12,12,12,12	0
56	MG	DA	3148	1/1	0.99	0.22	-	50,50,50,50	0
56	MG	DA	3348	1/1	0.99	0.15	-	40,40,40,40	0
56	MG	BA	3657	1/1	0.96	0.11	-	27,27,27,27	0
56	MG	CA	1952	1/1	0.97	0.18	-	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	BA	3025	1/1	0.92	0.14	-	13,13,13,13	0
56	MG	DA	3079	1/1	0.97	0.14	-	12,12,12,12	0
56	MG	DA	3667	1/1	0.97	0.16	-	38,38,38,38	0
56	MG	DA	3181	1/1	0.98	0.13	-	26,26,26,26	0
56	MG	BA	3149	1/1	0.93	0.13	-	38,38,38,38	0
56	MG	BA	3803	1/1	0.91	0.42	-	55,55,55,55	0
56	MG	AA	1832	1/1	0.92	0.17	-	49,49,49,49	0
56	MG	DA	3533	1/1	0.98	0.12	-	12,12,12,12	0
56	MG	BA	3325	1/1	0.99	0.05	-	5,5,5,5	0
56	MG	BA	3734	1/1	0.97	0.18	-	32,32,32,32	0
56	MG	AA	1762	1/1	0.86	0.12	-	52,52,52,52	0
56	MG	DA	3655	1/1	0.96	0.17	-	41,41,41,41	0
56	MG	AZ	102	1/1	0.96	0.06	-	60,60,60,60	0
56	MG	AA	1876	1/1	0.86	0.28	-	57,57,57,57	0
56	MG	BA	3210	1/1	0.97	0.14	-	31,31,31,31	0
56	MG	BA	3745	1/1	0.93	0.15	-	39,39,39,39	0
56	MG	DA	3112	1/1	0.98	0.09	-	21,21,21,21	0
56	MG	CA	1628	1/1	0.98	0.12	-	23,23,23,23	0
56	MG	AA	1764	1/1	0.77	0.27	-	61,61,61,61	0
56	MG	DA	3738	1/1	0.88	0.21	-	58,58,58,58	0
56	MG	DA	3724	1/1	0.86	0.81	-	62,62,62,62	0
56	MG	CA	1781	1/1	0.86	0.48	-	57,57,57,57	0
56	MG	DA	3680	1/1	0.97	0.18	-	6,6,6,6	0
56	MG	BA	3008	1/1	0.97	0.23	-	5,5,5,5	0
56	MG	BA	3214	1/1	0.89	0.16	-	62,62,62,62	0
56	MG	CA	1741	1/1	0.93	0.14	-	28,28,28,28	0
56	MG	BA	3513	1/1	0.98	0.07	-	24,24,24,24	0
56	MG	CA	1640	1/1	0.94	0.37	-	56,56,56,56	0
56	MG	CA	1737	1/1	0.78	0.16	-	58,58,58,58	0
56	MG	BA	3193	1/1	0.99	0.08	-	2,2,2,2	0
56	MG	DA	3387	1/1	0.96	0.08	-	13,13,13,13	0
56	MG	BA	3244	1/1	0.95	0.10	-	34,34,34,34	0
56	MG	BA	3319	1/1	0.96	0.14	-	35,35,35,35	0
56	MG	DA	3092	1/1	0.92	0.18	-	32,32,32,32	0
56	MG	CA	1870	1/1	0.97	0.19	-	25,25,25,25	0
56	MG	BA	3189	1/1	0.95	0.20	-	48,48,48,48	0
56	MG	BA	3495	1/1	0.99	0.10	-	10,10,10,10	0
56	MG	DA	3523	1/1	0.94	0.11	-	44,44,44,44	0
56	MG	CA	1853	1/1	0.96	0.15	-	50,50,50,50	0
56	MG	BA	3356	1/1	0.95	0.09	-	29,29,29,29	0
56	MG	AA	1715	1/1	0.94	0.19	-	51,51,51,51	0
56	MG	DA	3472	1/1	0.93	0.26	-	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	BA	3608	1/1	0.96	0.08	-	25,25,25,25	0
56	MG	DB	216	1/1	0.92	0.17	-	35,35,35,35	0
56	MG	DA	3216	1/1	0.99	0.05	-	24,24,24,24	0
56	MG	AA	1785	1/1	0.99	0.13	-	27,27,27,27	0
56	MG	DA	3183	1/1	0.95	0.16	-	12,12,12,12	0
56	MG	AA	1653	1/1	0.94	0.14	-	44,44,44,44	0
56	MG	DA	3442	1/1	0.98	0.10	-	32,32,32,32	0
56	MG	AA	1774	1/1	0.92	0.12	-	27,27,27,27	0
56	MG	BA	3115	1/1	0.97	0.19	-	33,33,33,33	0
56	MG	DA	3317	1/1	0.99	0.08	-	1,1,1,1	0
56	MG	BA	3715	1/1	0.94	0.09	-	42,42,42,42	0
56	MG	DA	3580	1/1	0.98	0.38	-	21,21,21,21	0
56	MG	DA	3338	1/1	0.99	0.05	-	25,25,25,25	0
56	MG	DA	3006	1/1	0.92	0.23	-	27,27,27,27	0
56	MG	DA	3042	1/1	0.98	0.08	-	7,7,7,7	0
56	MG	DA	3114	1/1	0.94	0.14	-	27,27,27,27	0
56	MG	DF	301	1/1	0.93	0.30	-	45,45,45,45	0
56	MG	DA	3460	1/1	0.95	0.23	-	41,41,41,41	0
56	MG	AZ	106	1/1	0.94	0.07	-	37,37,37,37	0
56	MG	DA	3048	1/1	0.96	0.23	-	20,20,20,20	0
56	MG	BA	3372	1/1	0.90	0.12	-	38,38,38,38	0
56	MG	DA	3237	1/1	0.95	0.11	-	31,31,31,31	0
56	MG	BA	3701	1/1	0.95	0.09	-	24,24,24,24	0
56	MG	BA	3582	1/1	0.85	0.21	-	53,53,53,53	0
56	MG	BA	3526	1/1	0.98	0.12	-	4,4,4,4	0
56	MG	BA	3494	1/1	0.97	0.16	-	25,25,25,25	0
56	MG	DA	3437	1/1	0.82	0.26	-	41,41,41,41	0
56	MG	B2	103	1/1	0.97	0.44	-	38,38,38,38	0
56	MG	CA	1673	1/1	0.96	0.07	-	48,48,48,48	0
56	MG	DA	3404	1/1	0.96	0.13	-	32,32,32,32	0
56	MG	DA	3196	1/1	0.98	0.10	-	12,12,12,12	0
56	MG	CA	1868	1/1	0.88	0.25	-	54,54,54,54	0
56	MG	DA	3305	1/1	0.99	0.06	-	29,29,29,29	0
56	MG	DA	3448	1/1	0.96	0.10	-	36,36,36,36	0
56	MG	CA	1883	1/1	0.85	0.13	-	41,41,41,41	0
56	MG	BA	3340	1/1	0.90	0.13	-	49,49,49,49	0
56	MG	BA	3260	1/1	0.99	0.07	-	35,35,35,35	0
56	MG	DA	3719	1/1	0.95	0.15	-	47,47,47,47	0
56	MG	DA	3198	1/1	0.86	0.47	-	51,51,51,51	0
56	MG	DA	3354	1/1	0.81	0.28	-	43,43,43,43	0
56	MG	CA	1773	1/1	0.93	0.17	-	35,35,35,35	0
56	MG	BA	3478	1/1	0.99	0.08	-	10,10,10,10	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	CA	1730	1/1	0.97	0.34	-	45,45,45,45	0
56	MG	CA	1846	1/1	0.95	0.08	-	69,69,69,69	0
56	MG	BA	3184	1/1	0.83	0.11	-	64,64,64,64	0
56	MG	DA	3670	1/1	0.99	0.18	-	59,59,59,59	0
56	MG	BN	202	1/1	0.94	0.21	-	49,49,49,49	0
56	MG	AA	1618	1/1	0.93	0.24	-	49,49,49,49	0
56	MG	AA	1712	1/1	0.97	0.20	-	26,26,26,26	0
56	MG	BA	3275	1/1	0.96	0.18	-	12,12,12,12	0
56	MG	BA	3013	1/1	0.99	0.06	-	0,0,0,0	0
56	MG	CA	1634	1/1	0.97	0.17	-	41,41,41,41	0
56	MG	DA	3711	1/1	0.97	0.07	-	49,49,49,49	0
56	MG	BA	3102	1/1	0.95	0.12	-	22,22,22,22	0
56	MG	BA	3502	1/1	0.97	0.06	-	38,38,38,38	0
56	MG	AA	1647	1/1	0.97	0.11	-	44,44,44,44	0
56	MG	CA	1661	1/1	0.96	0.07	-	47,47,47,47	0
56	MG	AA	1678	1/1	0.96	0.13	-	43,43,43,43	0
56	MG	BA	3313	1/1	0.98	0.06	-	25,25,25,25	0
56	MG	AA	1818	1/1	0.98	0.17	-	33,33,33,33	0
56	MG	BA	3339	1/1	0.98	0.08	-	34,34,34,34	0
56	MG	DA	3610	1/1	0.92	0.14	-	29,29,29,29	0
56	MG	BA	3163	1/1	0.99	0.10	-	25,25,25,25	0
56	MG	AA	1749	1/1	0.97	0.14	-	32,32,32,32	0
56	MG	AA	1880	1/1	0.99	0.22	-	8,8,8,8	0
56	MG	BB	203	1/1	0.99	0.07	-	22,22,22,22	0
56	MG	DA	3620	1/1	0.92	0.15	-	49,49,49,49	0
56	MG	CA	1844	1/1	0.97	0.08	-	26,26,26,26	0
56	MG	DA	3541	1/1	0.86	0.14	-	53,53,53,53	0
56	MG	DA	3330	1/1	0.98	0.21	-	36,36,36,36	0
56	MG	DA	3685	1/1	0.96	0.09	-	20,20,20,20	0
56	MG	BQ	201	1/1	0.96	0.33	-	38,38,38,38	0
56	MG	CA	1918	1/1	0.94	0.12	-	44,44,44,44	0
56	MG	DA	3151	1/1	0.91	0.18	-	58,58,58,58	0
56	MG	DA	3525	1/1	0.97	0.10	-	31,31,31,31	0
56	MG	DA	3723	1/1	0.97	0.11	-	28,28,28,28	0
56	MG	BA	3611	1/1	0.99	0.06	-	11,11,11,11	0
56	MG	BA	3360	1/1	0.99	0.07	-	17,17,17,17	0
56	MG	BA	3234	1/1	0.96	0.18	-	25,25,25,25	0
56	MG	DA	3476	1/1	0.97	0.10	-	37,37,37,37	0
56	MG	BA	3761	1/1	0.98	0.17	-	15,15,15,15	0
56	MG	AA	1703	1/1	0.97	0.22	-	36,36,36,36	0
56	MG	DA	3244	1/1	0.87	0.29	-	57,57,57,57	0
56	MG	BA	3667	1/1	0.94	0.22	-	63,63,63,63	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	CA	1768	1/1	0.83	0.11	-	39,39,39,39	0
56	MG	DA	3631	1/1	0.95	0.12	-	26,26,26,26	0
56	MG	CY	116	1/1	0.97	0.07	-	19,19,19,19	0
56	MG	DA	3163	1/1	0.99	0.04	-	21,21,21,21	0
56	MG	DZ	303	1/1	0.98	0.22	-	32,32,32,32	0
56	MG	AA	1773	1/1	0.99	0.04	-	26,26,26,26	0
56	MG	BA	3765	1/1	0.95	0.15	-	36,36,36,36	0
56	MG	DA	3629	1/1	0.98	0.27	-	22,22,22,22	0
56	MG	CA	1602	1/1	0.97	0.14	-	15,15,15,15	0
56	MG	DA	3035	1/1	0.99	0.10	-	6,6,6,6	0
56	MG	BA	3031	1/1	0.98	0.13	-	11,11,11,11	0
56	MG	BA	3636	1/1	0.97	0.09	-	47,47,47,47	0
56	MG	CA	1744	1/1	0.95	0.14	-	48,48,48,48	0
56	MG	DA	3269	1/1	0.97	0.07	-	31,31,31,31	0
56	MG	CA	1761	1/1	0.95	0.41	-	45,45,45,45	0
56	MG	DA	3513	1/1	0.94	0.08	-	41,41,41,41	0
56	MG	BA	3086	1/1	0.92	0.07	-	23,23,23,23	0
56	MG	BA	3559	1/1	0.98	0.08	-	15,15,15,15	0
56	MG	AY	115	1/1	0.98	0.09	-	18,18,18,18	0
56	MG	CZ	109	1/1	0.92	0.15	-	51,51,51,51	0
56	MG	DA	3320	1/1	0.97	0.10	-	19,19,19,19	0
56	MG	DA	3097	1/1	0.99	0.08	-	5,5,5,5	0
56	MG	BA	3567	1/1	0.95	0.07	-	11,11,11,11	0
56	MG	BA	3267	1/1	0.97	0.06	-	21,21,21,21	0
56	MG	AA	1885	1/1	0.91	0.11	-	33,33,33,33	0
56	MG	CA	1728	1/1	0.91	0.22	-	28,28,28,28	0
56	MG	BA	3687	1/1	0.97	0.08	-	19,19,19,19	0
56	MG	DA	3589	1/1	0.99	0.10	-	19,19,19,19	0
56	MG	BA	3542	1/1	0.99	0.16	-	13,13,13,13	0
56	MG	BA	3718	1/1	0.97	0.11	-	33,33,33,33	0
56	MG	BA	3727	1/1	0.98	0.32	-	36,36,36,36	0
56	MG	BA	3395	1/1	0.96	0.20	-	34,34,34,34	0
56	MG	BA	3200	1/1	0.97	0.09	-	20,20,20,20	0
56	MG	BA	3753	1/1	0.99	0.36	-	28,28,28,28	0
56	MG	DA	3454	1/1	0.99	0.08	-	12,12,12,12	0
56	MG	DA	3511	1/1	0.94	0.17	-	7,7,7,7	0
56	MG	BA	3229	1/1	0.91	0.10	-	27,27,27,27	0
56	MG	BA	3390	1/1	0.95	0.06	-	33,33,33,33	0
56	MG	BA	3638	1/1	0.94	0.13	-	38,38,38,38	0
56	MG	BA	3293	1/1	0.92	0.14	-	34,34,34,34	0
56	MG	BA	3783	1/1	0.98	0.28	-	29,29,29,29	0
56	MG	DA	3203	1/1	0.97	0.11	-	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	CA	1833	1/1	0.90	0.10	-	37,37,37,37	0
56	MG	AA	1724	1/1	0.98	0.07	-	26,26,26,26	0
56	MG	CA	1708	1/1	0.98	0.12	-	17,17,17,17	0
56	MG	BA	3307	1/1	0.97	0.07	-	26,26,26,26	0
56	MG	AA	1892	1/1	0.88	0.12	-	48,48,48,48	0
56	MG	CA	1794	1/1	0.92	0.07	-	42,42,42,42	0
56	MG	DA	3252	1/1	0.98	0.07	-	16,16,16,16	0
56	MG	DA	3666	1/1	0.98	0.06	-	23,23,23,23	0
56	MG	BA	3585	1/1	0.98	0.09	-	20,20,20,20	0
56	MG	CA	1637	1/1	0.99	0.09	-	21,21,21,21	0
56	MG	DA	3278	1/1	0.99	0.11	-	11,11,11,11	0
56	MG	AA	1797	1/1	0.99	0.05	-	30,30,30,30	0
56	MG	BF	304	1/1	0.94	0.25	-	40,40,40,40	0
56	MG	AA	1615	1/1	0.99	0.06	-	8,8,8,8	0
56	MG	AX	406	1/1	0.98	0.27	-	36,36,36,36	0
56	MG	DA	3457	1/1	0.96	0.20	-	23,23,23,23	0
56	MG	DA	3266	1/1	0.97	0.08	-	31,31,31,31	0
56	MG	BA	3181	1/1	0.91	0.17	-	51,51,51,51	0
56	MG	BA	3587	1/1	0.93	0.23	-	41,41,41,41	0
56	MG	DA	3276	1/1	0.98	0.17	-	29,29,29,29	0
56	MG	BA	3613	1/1	0.84	0.14	-	45,45,45,45	0
56	MG	CA	1652	1/1	0.98	0.07	-	40,40,40,40	0
56	MG	DA	3200	1/1	0.95	0.19	-	43,43,43,43	0
56	MG	CA	1924	1/1	0.84	0.24	-	45,45,45,45	0
56	MG	BA	3690	1/1	0.98	0.14	-	38,38,38,38	0
56	MG	BA	3393	1/1	0.96	0.14	-	32,32,32,32	0
56	MG	BA	3261	1/1	0.99	0.35	-	36,36,36,36	0
56	MG	DA	3268	1/1	0.93	0.22	-	48,48,48,48	0
56	MG	DA	3587	1/1	0.98	0.10	-	42,42,42,42	0
56	MG	DA	3014	1/1	0.99	0.05	-	9,9,9,9	0
56	MG	BA	3566	1/1	0.92	0.18	-	45,45,45,45	0
56	MG	AA	1875	1/1	0.99	0.05	-	16,16,16,16	0
56	MG	AA	1825	1/1	0.99	0.10	-	28,28,28,28	0
56	MG	CZ	117	1/1	0.96	0.11	-	34,34,34,34	0
56	MG	AA	1683	1/1	0.92	0.14	-	39,39,39,39	0
56	MG	DA	3294	1/1	0.97	0.07	-	29,29,29,29	0
56	MG	DA	3032	1/1	0.99	0.14	-	0,0,0,0	0
56	MG	DA	3494	1/1	0.99	0.08	-	5,5,5,5	0
56	MG	DA	3333	1/1	0.98	0.07	-	4,4,4,4	0
56	MG	BA	3134	1/1	0.96	0.51	-	61,61,61,61	0
56	MG	CC	301	1/1	0.95	0.10	-	48,48,48,48	0
56	MG	DA	3672	1/1	0.97	0.07	-	29,29,29,29	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	CA	1751	1/1	0.96	0.38	-	19,19,19,19	0
56	MG	BA	3791	1/1	0.98	0.07	-	54,54,54,54	0
56	MG	DZ	301	1/1	0.98	0.08	-	27,27,27,27	0
56	MG	AA	1620	1/1	0.97	0.08	-	35,35,35,35	0
56	MG	DA	3208	1/1	0.91	0.34	-	42,42,42,42	0
56	MG	BA	3093	1/1	0.95	0.11	-	34,34,34,34	0
56	MG	CA	1793	1/1	0.98	0.08	-	9,9,9,9	0
56	MG	DA	3319	1/1	0.98	0.14	-	18,18,18,18	0
56	MG	AA	1636	1/1	0.94	0.12	-	64,64,64,64	0
56	MG	BZ	301	1/1	0.98	0.18	-	21,21,21,21	0
56	MG	BA	3485	1/1	0.99	0.13	-	12,12,12,12	0
56	MG	DA	3381	1/1	0.91	0.38	-	36,36,36,36	0
56	MG	BA	3141	1/1	0.95	0.12	-	39,39,39,39	0
56	MG	AA	1685	1/1	0.98	0.15	-	30,30,30,30	0
56	MG	DA	3377	1/1	0.95	0.12	-	21,21,21,21	0
56	MG	BA	3722	1/1	0.97	0.27	-	16,16,16,16	0
56	MG	CA	1979	1/1	0.89	0.15	-	59,59,59,59	0
56	MG	BA	3754	1/1	0.80	0.14	-	70,70,70,70	0
56	MG	DG	201	1/1	0.96	0.38	-	34,34,34,34	0
56	MG	CA	1683	1/1	0.99	0.13	-	16,16,16,16	0
56	MG	BA	3565	1/1	0.99	0.07	-	24,24,24,24	0
56	MG	BA	3363	1/1	0.98	0.14	-	24,24,24,24	0
56	MG	AY	112	1/1	0.98	0.10	-	39,39,39,39	0
56	MG	CA	1830	1/1	0.80	0.23	-	36,36,36,36	0
56	MG	CA	1992	1/1	0.98	0.24	-	47,47,47,47	0
56	MG	CA	1839	1/1	0.97	0.09	-	31,31,31,31	0
56	MG	BA	3402	1/1	0.94	0.08	-	39,39,39,39	0
56	MG	BA	3225	1/1	0.98	0.09	-	21,21,21,21	0
56	MG	DA	3028	1/1	0.98	0.07	-	34,34,34,34	0
56	MG	CY	107	1/1	0.97	0.27	-	38,38,38,38	0
56	MG	CA	1716	1/1	0.95	0.10	-	42,42,42,42	0
56	MG	CA	2011	1/1	0.97	0.18	-	28,28,28,28	0
56	MG	DA	3559	1/1	0.87	0.23	-	44,44,44,44	0
56	MG	BA	3091	1/1	0.91	0.23	-	39,39,39,39	0
56	MG	CA	1809	1/1	0.95	0.14	-	57,57,57,57	0
56	MG	BA	3531	1/1	0.99	0.06	-	16,16,16,16	0
56	MG	DA	3617	1/1	0.97	0.05	-	47,47,47,47	0
56	MG	BA	3684	1/1	0.98	0.20	-	46,46,46,46	0
56	MG	DI	201	1/1	0.94	0.10	-	18,18,18,18	0
56	MG	DA	3722	1/1	0.92	0.20	-	54,54,54,54	0
56	MG	AA	1862	1/1	0.96	0.14	-	44,44,44,44	0
56	MG	BA	3773	1/1	0.98	0.17	-	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	DB	207	1/1	0.98	0.11	-	37,37,37,37	0
56	MG	BA	3586	1/1	0.95	0.32	-	34,34,34,34	0
56	MG	DB	226	1/1	0.94	0.36	-	51,51,51,51	0
56	MG	BA	3399	1/1	0.98	0.19	-	17,17,17,17	0
56	MG	DA	3647	1/1	0.93	0.17	-	19,19,19,19	0
56	MG	DH	204	1/1	0.98	0.20	-	11,11,11,11	0
56	MG	AA	1902	1/1	0.94	0.07	-	42,42,42,42	0
56	MG	DA	3744	1/1	0.93	0.18	-	62,62,62,62	0
56	MG	DA	3349	1/1	0.94	0.22	-	44,44,44,44	0
56	MG	CA	1804	1/1	0.96	0.15	-	32,32,32,32	0
56	MG	BA	3789	1/1	0.94	0.23	-	35,35,35,35	0
56	MG	BA	3704	1/1	0.96	0.12	-	42,42,42,42	0
56	MG	CB	302	1/1	0.97	0.58	-	48,48,48,48	0
56	MG	DA	3095	1/1	0.97	0.15	-	24,24,24,24	0
56	MG	BA	3250	1/1	0.95	0.14	-	39,39,39,39	0
56	MG	BA	3289	1/1	0.91	0.23	-	46,46,46,46	0
56	MG	BA	3646	1/1	0.97	0.12	-	12,12,12,12	0
56	MG	BA	3449	1/1	0.97	0.10	-	31,31,31,31	0
56	MG	CA	1816	1/1	0.99	0.27	-	48,48,48,48	0
56	MG	AA	1755	1/1	0.96	0.05	-	29,29,29,29	0
56	MG	AA	1871	1/1	0.94	0.09	-	35,35,35,35	0
56	MG	BA	3150	1/1	0.96	0.16	-	35,35,35,35	0
56	MG	BA	3616	1/1	0.96	0.12	-	2,2,2,2	0
56	MG	BA	3255	1/1	0.92	0.07	-	43,43,43,43	0
56	MG	BA	3279	1/1	0.95	0.09	-	39,39,39,39	0
56	MG	BA	3014	1/1	0.99	0.08	-	11,11,11,11	0
56	MG	AA	1894	1/1	0.94	0.26	-	38,38,38,38	0
56	MG	DA	3126	1/1	0.95	0.13	-	37,37,37,37	0
56	MG	BA	3763	1/1	0.95	0.20	-	55,55,55,55	0
56	MG	CA	1860	1/1	0.97	0.11	-	31,31,31,31	0
56	MG	CA	1843	1/1	0.95	0.10	-	21,21,21,21	0
56	MG	AA	1727	1/1	0.95	0.17	-	44,44,44,44	0
56	MG	BA	3693	1/1	0.73	0.09	-	51,51,51,51	0
56	MG	CA	1659	1/1	0.97	0.09	-	44,44,44,44	0
56	MG	AA	1878	1/1	0.93	0.29	-	37,37,37,37	0
56	MG	CA	1964	1/1	0.86	0.46	-	39,39,39,39	0
56	MG	DA	3375	1/1	0.86	0.30	-	42,42,42,42	0
56	MG	BN	201	1/1	0.99	0.04	-	20,20,20,20	0
56	MG	AY	124	1/1	0.97	0.08	-	21,21,21,21	0
56	MG	BA	3009	1/1	0.96	0.12	-	0,0,0,0	0
56	MG	AA	1812	1/1	0.94	0.23	-	33,33,33,33	0
56	MG	AA	1893	1/1	0.92	0.09	-	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	AA	1865	1/1	0.98	0.24	-	32,32,32,32	0
56	MG	CA	1722	1/1	0.97	0.23	-	36,36,36,36	0
56	MG	DW	202	1/1	0.94	0.16	-	36,36,36,36	0
56	MG	BA	3682	1/1	0.98	0.23	-	25,25,25,25	0
56	MG	DB	213	1/1	0.97	0.07	-	20,20,20,20	0
56	MG	AA	1867	1/1	0.97	0.47	-	49,49,49,49	0
56	MG	CX	401	1/1	0.99	0.07	-	13,13,13,13	0
56	MG	BA	3062	1/1	0.98	0.09	-	24,24,24,24	0
56	MG	BA	3770	1/1	0.97	0.13	-	30,30,30,30	0
56	MG	BA	3677	1/1	0.75	0.44	-	63,63,63,63	0
56	MG	DA	3591	1/1	0.94	0.12	-	26,26,26,26	0
56	MG	BA	3631	1/1	0.91	0.18	-	34,34,34,34	0
56	MG	CA	1693	1/1	0.99	0.21	-	10,10,10,10	0
56	MG	DA	3700	1/1	0.99	0.13	-	10,10,10,10	0
56	MG	CA	1719	1/1	0.89	0.20	-	58,58,58,58	0
56	MG	DA	3615	1/1	0.90	0.19	-	40,40,40,40	0
56	MG	BA	3404	1/1	0.96	0.10	-	43,43,43,43	0
56	MG	DA	3500	1/1	0.98	0.07	-	13,13,13,13	0
56	MG	CA	1896	1/1	0.98	0.07	-	31,31,31,31	0
56	MG	AY	106	1/1	0.98	0.05	-	32,32,32,32	0
56	MG	BA	3786	1/1	0.95	0.15	-	56,56,56,56	0
56	MG	DA	3644	1/1	0.97	0.14	-	5,5,5,5	0
56	MG	CA	1631	1/1	0.97	0.13	-	27,27,27,27	0
56	MG	CA	1795	1/1	0.96	0.15	-	42,42,42,42	0
56	MG	CY	115	1/1	0.98	0.05	-	38,38,38,38	0
56	MG	DA	3412	1/1	0.88	0.29	-	50,50,50,50	0
56	MG	CA	1832	1/1	0.94	0.27	-	38,38,38,38	0
56	MG	CA	1665	1/1	0.95	0.15	-	26,26,26,26	0
56	MG	BA	3731	1/1	0.95	0.10	-	45,45,45,45	0
56	MG	BA	3383	1/1	0.98	0.07	-	29,29,29,29	0
56	MG	DA	3304	1/1	0.99	0.04	-	10,10,10,10	0
56	MG	DA	3175	1/1	0.97	0.10	-	32,32,32,32	0
56	MG	BA	3222	1/1	0.98	0.08	-	13,13,13,13	0
56	MG	BA	3182	1/1	0.99	0.12	-	22,22,22,22	0
56	MG	CA	1906	1/1	0.98	0.27	-	24,24,24,24	0
56	MG	CA	1845	1/1	0.98	0.06	-	21,21,21,21	0
56	MG	AA	1687	1/1	0.97	0.07	-	11,11,11,11	0
56	MG	DA	3633	1/1	0.96	0.17	-	19,19,19,19	0
56	MG	DA	3358	1/1	0.96	0.07	-	17,17,17,17	0
56	MG	BA	3756	1/1	0.93	0.17	-	52,52,52,52	0
56	MG	CA	1797	1/1	0.91	0.16	-	60,60,60,60	0
56	MG	BA	3309	1/1	0.99	0.13	-	25,25,25,25	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	AB	301	1/1	0.94	0.09	-	44,44,44,44	0
56	MG	CO	102	1/1	0.91	0.33	-	73,73,73,73	0
56	MG	DA	3344	1/1	0.97	0.09	-	32,32,32,32	0
56	MG	BA	3749	1/1	0.90	0.18	-	30,30,30,30	0
56	MG	BA	3227	1/1	0.94	0.23	-	36,36,36,36	0
56	MG	BA	3048	1/1	0.91	0.26	-	64,64,64,64	0
56	MG	DA	3399	1/1	0.95	0.33	-	36,36,36,36	0
56	MG	CA	1848	1/1	0.98	0.06	-	41,41,41,41	0
56	MG	AA	1659	1/1	0.99	0.11	-	33,33,33,33	0
56	MG	BA	3394	1/1	0.95	0.15	-	17,17,17,17	0
56	MG	BA	3698	1/1	0.96	0.26	-	57,57,57,57	0
56	MG	DA	3386	1/1	0.94	0.12	-	27,27,27,27	0
56	MG	BA	3548	1/1	0.94	0.20	-	39,39,39,39	0
56	MG	AA	1695	1/1	0.95	0.10	-	33,33,33,33	0
56	MG	DA	3085	1/1	0.97	0.09	-	35,35,35,35	0
56	MG	DA	3091	1/1	0.98	0.06	-	8,8,8,8	0
56	MG	DA	3694	1/1	0.95	0.09	-	46,46,46,46	0
56	MG	BA	3020	1/1	0.97	0.07	-	2,2,2,2	0
56	MG	CA	1718	1/1	0.97	0.12	-	38,38,38,38	0
56	MG	CA	1859	1/1	0.98	0.05	-	22,22,22,22	0
56	MG	CK	201	1/1	0.90	0.14	-	51,51,51,51	0
56	MG	DA	3739	1/1	0.99	0.12	-	20,20,20,20	0
56	MG	DA	3394	1/1	0.96	0.13	-	38,38,38,38	0
56	MG	AA	1807	1/1	0.97	0.11	-	22,22,22,22	0
56	MG	CA	1959	1/1	0.98	0.09	-	3,3,3,3	0
56	MG	BA	3511	1/1	0.95	0.11	-	26,26,26,26	0
56	MG	CA	1803	1/1	0.99	0.17	-	6,6,6,6	0
56	MG	CY	108	1/1	0.98	0.11	-	22,22,22,22	0
56	MG	BA	3065	1/1	0.99	0.10	-	18,18,18,18	0
56	MG	AY	108	1/1	0.96	0.12	-	33,33,33,33	0
56	MG	DA	3674	1/1	0.99	0.10	-	4,4,4,4	0
56	MG	CA	1920	1/1	0.96	0.53	-	32,32,32,32	0
56	MG	CA	1789	1/1	0.88	0.54	-	53,53,53,53	0
56	MG	BA	3601	1/1	0.93	0.19	-	33,33,33,33	0
56	MG	CA	1823	1/1	0.97	0.09	-	40,40,40,40	0
56	MG	BA	3158	1/1	0.99	0.24	-	44,44,44,44	0
56	MG	DA	3370	1/1	0.97	0.14	-	23,23,23,23	0
56	MG	DA	3642	1/1	0.95	0.12	-	26,26,26,26	0
56	MG	CA	1651	1/1	0.86	0.14	-	54,54,54,54	0
56	MG	DA	3066	1/1	0.91	0.16	-	47,47,47,47	0
56	MG	AV	101	1/1	0.92	0.11	-	49,49,49,49	0
56	MG	BA	3108	1/1	0.97	0.12	-	24,24,24,24	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	AA	1839	1/1	0.99	0.12	-	39,39,39,39	0
56	MG	DA	3327	1/1	0.99	0.12	-	13,13,13,13	0
56	MG	AA	1640	1/1	0.98	0.08	-	35,35,35,35	0
56	MG	CA	1871	1/1	0.97	0.15	-	34,34,34,34	0
56	MG	DA	3396	1/1	0.98	0.05	-	21,21,21,21	0
56	MG	BA	3680	1/1	0.96	0.21	-	44,44,44,44	0
56	MG	CA	1763	1/1	0.97	0.09	-	19,19,19,19	0
56	MG	BA	3202	1/1	0.95	0.09	-	46,46,46,46	0
56	MG	DA	3313	1/1	0.97	0.12	-	42,42,42,42	0
56	MG	DA	3624	1/1	0.91	0.18	-	39,39,39,39	0
56	MG	CX	402	1/1	0.84	0.14	-	38,38,38,38	0
56	MG	AA	1707	1/1	0.98	0.07	-	26,26,26,26	0
56	MG	CA	1709	1/1	0.99	0.26	-	39,39,39,39	0
56	MG	DA	3336	1/1	0.97	0.08	-	38,38,38,38	0
56	MG	CA	1847	1/1	0.91	0.15	-	22,22,22,22	0
56	MG	DA	3255	1/1	0.97	0.09	-	19,19,19,19	0
56	MG	CA	1988	1/1	0.88	0.17	-	48,48,48,48	0
56	MG	CA	1707	1/1	0.97	0.07	-	48,48,48,48	0
56	MG	AY	104	1/1	0.96	0.14	-	38,38,38,38	0
56	MG	AA	1891	1/1	0.87	0.36	-	68,68,68,68	0
56	MG	BA	3432	1/1	0.90	0.09	-	53,53,53,53	0
56	MG	CA	1627	1/1	0.99	0.10	-	29,29,29,29	0
56	MG	AA	1696	1/1	0.96	0.14	-	27,27,27,27	0
56	MG	BA	3626	1/1	0.94	0.11	-	29,29,29,29	0
56	MG	AA	1709	1/1	0.99	0.15	-	15,15,15,15	0
56	MG	DA	3218	1/1	0.89	0.27	-	46,46,46,46	0
56	MG	AY	122	1/1	0.97	0.07	-	17,17,17,17	0
56	MG	DA	3749	1/1	0.98	0.26	-	34,34,34,34	0
56	MG	DA	3077	1/1	0.97	0.08	-	7,7,7,7	0
56	MG	DA	3142	1/1	0.96	0.15	-	24,24,24,24	0
56	MG	DA	3740	1/1	0.98	0.27	-	27,27,27,27	0
56	MG	DA	3522	1/1	0.97	0.11	-	33,33,33,33	0
56	MG	AA	1804	1/1	0.98	0.21	-	18,18,18,18	0
56	MG	CA	1648	1/1	0.99	0.09	-	28,28,28,28	0
56	MG	CZ	106	1/1	0.97	0.06	-	19,19,19,19	0
56	MG	DA	3594	1/1	0.76	0.22	-	83,83,83,83	0
56	MG	DA	3281	1/1	0.96	0.10	-	4,4,4,4	0
56	MG	DA	3422	1/1	0.96	0.15	-	22,22,22,22	0
56	MG	BA	3748	1/1	0.95	0.51	-	45,45,45,45	0
56	MG	DA	3748	1/1	0.92	0.70	-	50,50,50,50	0
56	MG	DA	3554	1/1	0.84	0.14	-	71,71,71,71	0
56	MG	CA	1745	1/1	0.96	0.22	-	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	DA	3435	1/1	0.89	0.21	-	41,41,41,41	0
56	MG	BA	3557	1/1	0.95	0.32	-	59,59,59,59	0
56	MG	DA	3484	1/1	0.97	0.31	-	6,6,6,6	0
56	MG	BA	3512	1/1	0.91	0.12	-	16,16,16,16	0
56	MG	AA	1752	1/1	0.98	0.07	-	13,13,13,13	0
56	MG	BA	3658	1/1	0.95	0.14	-	56,56,56,56	0
56	MG	DA	3622	1/1	0.95	0.09	-	34,34,34,34	0
56	MG	DA	3029	1/1	0.94	0.12	-	25,25,25,25	0
56	MG	AX	405	1/1	0.79	0.23	-	58,58,58,58	0
56	MG	CY	103	1/1	0.98	0.07	-	49,49,49,49	0
56	MG	AA	1895	1/1	0.91	0.12	-	50,50,50,50	0
56	MG	DA	3746	1/1	0.98	0.32	-	43,43,43,43	0
56	MG	DA	3570	1/1	0.88	0.07	-	36,36,36,36	0
56	MG	DA	3004	1/1	0.89	0.80	-	42,42,42,42	0
56	MG	CA	1721	1/1	0.98	0.10	-	45,45,45,45	0
56	MG	BA	3205	1/1	0.96	0.14	-	21,21,21,21	0
56	MG	BA	3691	1/1	0.92	0.13	-	44,44,44,44	0
56	MG	BA	3324	1/1	0.95	0.28	-	33,33,33,33	0
56	MG	BA	3797	1/1	0.99	0.21	-	18,18,18,18	0
56	MG	DA	3293	1/1	0.98	0.10	-	10,10,10,10	0
56	MG	DA	3498	1/1	0.95	0.07	-	59,59,59,59	0
56	MG	AI	202	1/1	0.98	0.10	-	17,17,17,17	0
56	MG	BA	3138	1/1	0.98	0.07	-	34,34,34,34	0
56	MG	CZ	101	1/1	0.95	0.13	-	61,61,61,61	0
56	MG	CA	1831	1/1	0.86	0.12	-	66,66,66,66	0
56	MG	CZ	116	1/1	0.94	0.13	-	81,81,81,81	0
56	MG	BA	3160	1/1	0.97	0.11	-	23,23,23,23	0
56	MG	DA	3656	1/1	0.97	0.48	-	35,35,35,35	0
56	MG	BA	3164	1/1	0.94	0.16	-	51,51,51,51	0
56	MG	BA	3517	1/1	0.82	0.11	-	40,40,40,40	0
56	MG	DA	3258	1/1	0.96	0.11	-	39,39,39,39	0
56	MG	AA	1810	1/1	0.99	0.09	-	24,24,24,24	0
56	MG	CA	1687	1/1	0.97	0.05	-	19,19,19,19	0
56	MG	CA	1966	1/1	0.97	0.09	-	41,41,41,41	0
56	MG	CD	302	1/1	0.98	0.07	-	41,41,41,41	0
56	MG	AY	119	1/1	0.97	0.10	-	22,22,22,22	0
56	MG	CY	114	1/1	0.97	0.13	-	16,16,16,16	0
56	MG	DA	3372	1/1	0.95	0.16	-	30,30,30,30	0
56	MG	BA	3207	1/1	0.98	0.17	-	31,31,31,31	0
56	MG	CY	110	1/1	0.97	0.08	-	17,17,17,17	0
56	MG	DA	3002	1/1	0.97	0.25	-	45,45,45,45	0
56	MG	DA	3383	1/1	0.99	0.06	-	10,10,10,10	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	BA	3376	1/1	0.97	0.10	-	35,35,35,35	0
56	MG	BA	3188	1/1	0.97	0.13	-	3,3,3,3	0
56	MG	CA	1994	1/1	0.89	0.16	-	58,58,58,58	0
56	MG	CA	1676	1/1	0.98	0.12	-	25,25,25,25	0
56	MG	DA	3632	1/1	0.95	0.20	-	32,32,32,32	0
56	MG	AA	1780	1/1	0.97	0.14	-	34,34,34,34	0
56	MG	DA	3712	1/1	0.93	0.20	-	61,61,61,61	0
56	MG	DA	3668	1/1	0.93	0.25	-	42,42,42,42	0
56	MG	AA	1677	1/1	0.85	0.10	-	49,49,49,49	0
56	MG	BA	3750	1/1	0.95	0.13	-	24,24,24,24	0
56	MG	AA	1907	1/1	0.97	0.08	-	54,54,54,54	0
56	MG	CA	1977	1/1	0.98	0.52	-	31,31,31,31	0
56	MG	BA	3401	1/1	0.99	0.10	-	44,44,44,44	0
56	MG	BA	3218	1/1	0.98	0.09	-	20,20,20,20	0
56	MG	AA	1624	1/1	0.92	0.13	-	26,26,26,26	0
56	MG	CA	1668	1/1	0.97	0.12	-	55,55,55,55	0
56	MG	AA	1684	1/1	0.97	0.28	-	27,27,27,27	0
56	MG	CA	1753	1/1	0.97	0.14	-	23,23,23,23	0
56	MG	CA	1978	1/1	0.96	0.07	-	35,35,35,35	0
56	MG	BA	3509	1/1	0.96	0.07	-	33,33,33,33	0
56	MG	BA	3118	1/1	1.00	0.17	-	20,20,20,20	0
56	MG	BA	3073	1/1	0.96	0.15	-	23,23,23,23	0
56	MG	AA	1791	1/1	0.98	0.09	-	30,30,30,30	0
56	MG	CA	1822	1/1	0.98	0.14	-	26,26,26,26	0
56	MG	AA	1841	1/1	0.99	0.05	-	24,24,24,24	0
56	MG	BA	3162	1/1	0.98	0.16	-	41,41,41,41	0
56	MG	BA	3409	1/1	0.96	0.11	-	22,22,22,22	0
56	MG	DB	215	1/1	0.98	0.07	-	47,47,47,47	0
56	MG	BA	3433	1/1	0.99	0.15	-	40,40,40,40	0
56	MG	DA	3463	1/1	0.99	0.09	-	37,37,37,37	0
56	MG	CA	1955	1/1	0.89	0.16	-	29,29,29,29	0
56	MG	CA	1724	1/1	0.96	0.24	-	56,56,56,56	0
56	MG	DA	3585	1/1	0.97	0.14	-	31,31,31,31	0
56	MG	BA	3195	1/1	0.93	0.22	-	46,46,46,46	0
56	MG	DB	205	1/1	0.97	0.07	-	60,60,60,60	0
56	MG	DA	3707	1/1	0.96	0.14	-	45,45,45,45	0
56	MG	DA	3329	1/1	0.98	0.07	-	42,42,42,42	0
56	MG	DA	3441	1/1	0.95	0.32	-	41,41,41,41	0
56	MG	DA	3618	1/1	0.98	0.13	-	47,47,47,47	0
56	MG	CA	1929	1/1	0.98	0.09	-	48,48,48,48	0
56	MG	DA	3098	1/1	0.99	0.06	-	1,1,1,1	0
56	MG	CA	1649	1/1	0.97	0.14	-	16,16,16,16	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	AA	1713	1/1	0.96	0.08	-	43,43,43,43	0
56	MG	DA	3501	1/1	0.94	0.24	-	47,47,47,47	0
56	MG	BA	3505	1/1	0.99	0.05	-	1,1,1,1	0
56	MG	DA	3369	1/1	0.97	0.07	-	7,7,7,7	0
56	MG	BA	3593	1/1	0.83	0.36	-	55,55,55,55	0
56	MG	DA	3275	1/1	0.99	0.32	-	2,2,2,2	0
56	MG	BA	3021	1/1	0.99	0.05	-	11,11,11,11	0
56	MG	DA	3530	1/1	0.94	0.27	-	51,51,51,51	0
56	MG	CA	1666	1/1	0.83	0.19	-	50,50,50,50	0
56	MG	BA	3327	1/1	0.90	0.08	-	43,43,43,43	0
56	MG	AA	1691	1/1	0.90	0.21	-	52,52,52,52	0
56	MG	AA	1800	1/1	0.94	0.08	-	49,49,49,49	0
56	MG	BA	3637	1/1	0.92	0.11	-	14,14,14,14	0
56	MG	BA	3627	1/1	0.95	0.07	-	49,49,49,49	0
56	MG	BA	3185	1/1	0.98	0.07	-	5,5,5,5	0
56	MG	DA	3311	1/1	0.99	0.08	-	15,15,15,15	0
56	MG	BA	3133	1/1	0.90	0.29	-	48,48,48,48	0
56	MG	CA	1854	1/1	0.94	0.13	-	43,43,43,43	0
56	MG	BA	3713	1/1	0.97	0.23	-	28,28,28,28	0
56	MG	BA	3219	1/1	0.97	0.14	-	14,14,14,14	0
56	MG	DA	3512	1/1	0.99	0.16	-	15,15,15,15	0
56	MG	DA	3073	1/1	0.98	0.04	-	34,34,34,34	0
56	MG	DA	3728	1/1	0.93	0.17	-	33,33,33,33	0
56	MG	DA	3367	1/1	0.95	0.10	-	60,60,60,60	0
56	MG	DA	3550	1/1	0.93	0.55	-	35,35,35,35	0
56	MG	BA	3418	1/1	0.98	0.07	-	34,34,34,34	0
56	MG	BA	3211	1/1	0.98	0.10	-	27,27,27,27	0
56	MG	DA	3486	1/1	0.95	0.12	-	35,35,35,35	0
56	MG	AA	1669	1/1	0.90	0.15	-	40,40,40,40	0
56	MG	BA	3413	1/1	0.91	0.06	-	62,62,62,62	0
56	MG	BA	3171	1/1	0.98	0.15	-	30,30,30,30	0
56	MG	DA	3650	1/1	0.98	0.16	-	63,63,63,63	0
56	MG	DA	3665	1/1	0.94	0.12	-	35,35,35,35	0
56	MG	AA	1833	1/1	0.97	0.30	-	52,52,52,52	0
56	MG	BA	3522	1/1	0.96	0.15	-	0,0,0,0	0
56	MG	BA	3362	1/1	0.96	0.08	-	60,60,60,60	0
56	MG	DA	3745	1/1	0.90	0.21	-	39,39,39,39	0
56	MG	AA	1882	1/1	0.98	0.35	-	30,30,30,30	0
56	MG	BA	3277	1/1	0.97	0.14	-	54,54,54,54	0
56	MG	AA	1736	1/1	0.97	0.10	-	50,50,50,50	0
56	MG	AA	1849	1/1	0.95	0.20	-	40,40,40,40	0
56	MG	BA	3374	1/1	0.91	0.15	-	25,25,25,25	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	BA	3448	1/1	0.96	0.22	-	45,45,45,45	0
56	MG	BA	3438	1/1	0.88	0.24	-	52,52,52,52	0
56	MG	AA	1623	1/1	0.98	0.07	-	7,7,7,7	0
56	MG	DA	3757	1/1	0.81	0.41	-	43,43,43,43	0
56	MG	AA	1651	1/1	0.97	0.07	-	53,53,53,53	0
56	MG	DA	3713	1/1	0.97	0.10	-	27,27,27,27	0
56	MG	BA	3514	1/1	0.98	0.17	-	29,29,29,29	0
56	MG	CA	1899	1/1	0.90	0.25	-	49,49,49,49	0
56	MG	BA	3199	1/1	0.96	0.18	-	31,31,31,31	0
56	MG	DB	204	1/1	0.88	0.13	-	48,48,48,48	0
56	MG	AA	1870	1/1	0.95	0.43	-	28,28,28,28	0
56	MG	BA	3639	1/1	0.85	0.30	-	54,54,54,54	0
56	MG	BB	206	1/1	0.60	0.21	-	65,65,65,65	0
56	MG	DB	201	1/1	0.99	0.09	-	14,14,14,14	0
56	MG	BA	3053	1/1	0.96	0.14	-	50,50,50,50	0
56	MG	CA	1999	1/1	0.95	0.13	-	31,31,31,31	0
56	MG	DP	204	1/1	0.99	0.06	-	3,3,3,3	0
56	MG	CA	2003	1/1	0.98	0.15	-	18,18,18,18	0
56	MG	DA	3201	1/1	0.96	0.06	-	45,45,45,45	0
56	MG	AA	1634	1/1	0.95	0.09	-	32,32,32,32	0
56	MG	CA	1670	1/1	0.95	0.29	-	31,31,31,31	0
56	MG	BA	3641	1/1	0.95	0.11	-	47,47,47,47	0
56	MG	CA	1889	1/1	0.97	0.22	-	31,31,31,31	0
56	MG	BA	3003	1/1	0.98	0.11	-	44,44,44,44	0
56	MG	CA	1616	1/1	0.92	0.10	-	54,54,54,54	0
56	MG	DA	3455	1/1	0.98	0.25	-	35,35,35,35	0
56	MG	AA	1648	1/1	0.97	0.10	-	26,26,26,26	0
56	MG	CA	1678	1/1	0.90	0.18	-	65,65,65,65	0
56	MG	BA	3426	1/1	0.94	0.44	-	56,56,56,56	0
56	MG	DA	3552	1/1	0.98	0.09	-	16,16,16,16	0
56	MG	BA	3004	1/1	0.92	0.49	-	57,57,57,57	0
56	MG	BA	3081	1/1	0.97	0.07	-	0,0,0,0	0
56	MG	CA	1766	1/1	0.98	0.04	-	26,26,26,26	0
56	MG	BA	3142	1/1	0.96	0.11	-	40,40,40,40	0
56	MG	CZ	107	1/1	0.98	0.06	-	36,36,36,36	0
56	MG	BA	3607	1/1	0.98	0.24	-	23,23,23,23	0
56	MG	BA	3228	1/1	0.99	0.05	-	0,0,0,0	0
56	MG	BA	3628	1/1	0.97	0.16	-	24,24,24,24	0
56	MG	AH	201	1/1	0.98	0.05	-	24,24,24,24	0
56	MG	DA	3715	1/1	0.98	0.21	-	50,50,50,50	0
56	MG	DA	3193	1/1	0.98	0.18	-	17,17,17,17	0
56	MG	DA	3572	1/1	0.93	0.08	-	36,36,36,36	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	DA	3577	1/1	0.96	0.23	-	42,42,42,42	0
56	MG	DA	3507	1/1	0.99	0.10	-	0,0,0,0	0
56	MG	CA	1613	1/1	0.98	0.08	-	17,17,17,17	0
56	MG	BA	3166	1/1	0.98	0.09	-	28,28,28,28	0
56	MG	CA	1873	1/1	0.83	0.18	-	62,62,62,62	0
56	MG	BA	3615	1/1	0.99	0.09	-	3,3,3,3	0
56	MG	DA	3297	1/1	0.98	0.09	-	34,34,34,34	0
56	MG	BA	3755	1/1	0.93	0.12	-	64,64,64,64	0
56	MG	BA	3262	1/1	0.92	0.14	-	31,31,31,31	0
56	MG	DA	3558	1/1	0.98	0.09	-	30,30,30,30	0
56	MG	DA	3212	1/1	0.97	0.15	-	34,34,34,34	0
56	MG	BA	3469	1/1	0.88	0.11	-	28,28,28,28	0
56	MG	AA	1738	1/1	0.99	0.05	-	6,6,6,6	0
56	MG	DA	3465	1/1	0.95	0.15	-	20,20,20,20	0
56	MG	BA	3792	1/1	0.97	0.06	-	42,42,42,42	0
56	MG	DA	3136	1/1	0.97	0.16	-	11,11,11,11	0
56	MG	AA	1842	1/1	0.90	0.11	-	49,49,49,49	0
56	MG	AA	1793	1/1	0.96	0.06	-	30,30,30,30	0
56	MG	BA	3694	1/1	0.86	0.15	-	50,50,50,50	0
56	MG	BA	3082	1/1	0.97	0.08	-	48,48,48,48	0
56	MG	CA	1837	1/1	0.97	0.27	-	45,45,45,45	0
56	MG	AA	1735	1/1	0.98	0.04	-	24,24,24,24	0
56	MG	DA	3282	1/1	0.95	0.07	-	20,20,20,20	0
56	MG	CA	1820	1/1	0.96	0.18	-	55,55,55,55	0
56	MG	CA	1867	1/1	0.98	0.09	-	33,33,33,33	0
56	MG	BA	3290	1/1	0.98	0.07	-	12,12,12,12	0
56	MG	CA	1849	1/1	0.92	0.15	-	32,32,32,32	0
56	MG	CA	1619	1/1	0.93	0.17	-	66,66,66,66	0
56	MG	BP	201	1/1	0.98	0.18	-	34,34,34,34	0
56	MG	BA	3233	1/1	0.96	0.28	-	35,35,35,35	0
56	MG	BA	3337	1/1	0.97	0.18	-	28,28,28,28	0
56	MG	BB	216	1/1	0.99	0.07	-	51,51,51,51	0
56	MG	AA	1869	1/1	0.99	0.15	-	33,33,33,33	0
56	MG	BA	3170	1/1	0.92	0.14	-	18,18,18,18	0
56	MG	BA	3648	1/1	0.98	0.15	-	4,4,4,4	0
56	MG	CA	1738	1/1	0.97	0.19	-	20,20,20,20	0
56	MG	BA	3488	1/1	0.95	0.22	-	26,26,26,26	0
56	MG	BA	3187	1/1	0.87	0.17	-	65,65,65,65	0
56	MG	DA	3490	1/1	0.98	0.07	-	5,5,5,5	0
56	MG	BA	3343	1/1	0.96	0.12	-	32,32,32,32	0
56	MG	DA	3018	1/1	0.97	0.10	-	3,3,3,3	0
56	MG	CA	1735	1/1	0.99	0.18	-	20,20,20,20	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	BB	204	1/1	0.98	0.08	-	46,46,46,46	0
56	MG	CA	1732	1/1	0.93	0.20	-	38,38,38,38	0
56	MG	AC	304	1/1	0.93	0.24	-	55,55,55,55	0
56	MG	BA	3746	1/1	0.86	0.40	-	65,65,65,65	0
56	MG	BA	3429	1/1	0.99	0.06	-	5,5,5,5	0
56	MG	BA	3431	1/1	0.99	0.11	-	11,11,11,11	0
56	MG	AY	101	1/1	0.99	0.11	-	26,26,26,26	0
56	MG	CA	1704	1/1	0.98	0.41	-	31,31,31,31	0
56	MG	AA	1711	1/1	0.99	0.06	-	17,17,17,17	0
56	MG	CA	1932	1/1	0.82	0.27	-	54,54,54,54	0
56	MG	DA	3428	1/1	0.90	0.11	-	61,61,61,61	0
56	MG	AA	1682	1/1	0.95	0.07	-	51,51,51,51	0
56	MG	BA	3471	1/1	0.99	0.08	-	17,17,17,17	0
56	MG	DA	3529	1/1	0.98	0.17	-	7,7,7,7	0
56	MG	BA	3154	1/1	0.95	0.12	-	26,26,26,26	0
56	MG	DZ	302	1/1	0.99	0.06	-	24,24,24,24	0
56	MG	DA	3364	1/1	0.98	0.13	-	43,43,43,43	0
56	MG	DA	3627	1/1	0.97	0.20	-	24,24,24,24	0
56	MG	DA	3227	1/1	0.89	0.13	-	37,37,37,37	0
56	MG	BA	3239	1/1	0.98	0.26	-	22,22,22,22	0
56	MG	DA	3436	1/1	0.99	0.15	-	7,7,7,7	0
56	MG	CA	1935	1/1	0.96	0.07	-	49,49,49,49	0
56	MG	AA	1605	1/1	0.99	0.07	-	15,15,15,15	0
56	MG	DA	3185	1/1	0.97	0.23	-	44,44,44,44	0
56	MG	AA	1866	1/1	0.99	0.05	-	13,13,13,13	0
56	MG	CA	1865	1/1	0.99	0.07	-	12,12,12,12	0
56	MG	AA	1852	1/1	0.96	0.12	-	45,45,45,45	0
56	MG	BA	3417	1/1	0.94	0.09	-	25,25,25,25	0
56	MG	BA	3590	1/1	0.95	0.07	-	27,27,27,27	0
56	MG	BA	3551	1/1	0.93	0.28	-	47,47,47,47	0
56	MG	DA	3438	1/1	0.99	0.15	-	24,24,24,24	0
56	MG	DB	202	1/1	0.95	0.13	-	59,59,59,59	0
56	MG	BA	3057	1/1	0.99	0.07	-	3,3,3,3	0
56	MG	CA	1646	1/1	0.97	0.11	-	45,45,45,45	0
56	MG	CA	2002	1/1	0.98	0.08	-	39,39,39,39	0
56	MG	BB	205	1/1	0.98	0.28	-	36,36,36,36	0
56	MG	CA	1998	1/1	0.98	0.09	-	48,48,48,48	0
56	MG	DA	3238	1/1	0.97	0.20	-	2,2,2,2	0
56	MG	BA	3335	1/1	0.99	0.06	-	4,4,4,4	0
56	MG	DA	3662	1/1	0.99	0.09	-	24,24,24,24	0
56	MG	DA	3660	1/1	0.92	0.19	-	44,44,44,44	0
56	MG	CC	307	1/1	0.94	0.28	-	27,27,27,27	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	DA	3574	1/1	0.96	0.07	-	45,45,45,45	0
56	MG	CA	1712	1/1	0.94	0.49	-	18,18,18,18	0
56	MG	DA	3053	1/1	0.98	0.13	-	46,46,46,46	0
56	MG	BA	3794	1/1	0.99	0.22	-	12,12,12,12	0
56	MG	DA	3564	1/1	0.99	0.06	-	7,7,7,7	0
56	MG	AA	1737	1/1	0.97	0.08	-	40,40,40,40	0
56	MG	BA	3660	1/1	0.98	0.12	-	38,38,38,38	0
56	MG	BA	3151	1/1	0.88	0.26	-	52,52,52,52	0
56	MG	DA	3449	1/1	0.97	0.08	-	16,16,16,16	0
56	MG	DR	201	1/1	0.96	0.14	-	32,32,32,32	0
56	MG	BA	3254	1/1	0.98	0.11	-	31,31,31,31	0
56	MG	BA	3668	1/1	0.92	0.12	-	50,50,50,50	0
56	MG	BA	3377	1/1	0.99	0.05	-	4,4,4,4	0
56	MG	AA	1808	1/1	0.99	0.07	-	23,23,23,23	0
56	MG	BB	219	1/1	0.97	0.42	-	52,52,52,52	0
56	MG	BA	3659	1/1	0.96	0.09	-	37,37,37,37	0
56	MG	CA	1691	1/1	0.98	0.09	-	15,15,15,15	0
56	MG	BA	3015	1/1	0.98	0.08	-	16,16,16,16	0
56	MG	DA	3653	1/1	0.92	0.11	-	55,55,55,55	0
56	MG	AA	1604	1/1	0.98	0.15	-	26,26,26,26	0
56	MG	CA	1986	1/1	0.98	0.18	-	23,23,23,23	0
56	MG	DA	3489	1/1	0.94	0.10	-	24,24,24,24	0
56	MG	BA	3686	1/1	0.96	0.10	-	30,30,30,30	0
56	MG	DA	3195	1/1	0.96	0.12	-	28,28,28,28	0
56	MG	DA	3056	1/1	0.93	0.10	-	25,25,25,25	0
56	MG	DA	3727	1/1	0.97	0.08	-	27,27,27,27	0
56	MG	BA	3728	1/1	0.91	0.17	-	28,28,28,28	0
56	MG	CA	1609	1/1	0.96	0.12	-	60,60,60,60	0
56	MG	AY	116	1/1	0.97	0.31	-	51,51,51,51	0
56	MG	CA	1874	1/1	0.93	0.18	-	52,52,52,52	0
56	MG	BA	3662	1/1	0.98	0.46	-	40,40,40,40	0
56	MG	BA	3645	1/1	0.98	0.06	-	25,25,25,25	0
56	MG	BA	3321	1/1	0.98	0.13	-	51,51,51,51	0
56	MG	AA	1704	1/1	0.98	0.04	-	18,18,18,18	0
56	MG	DA	3605	1/1	0.94	0.28	-	36,36,36,36	0
56	MG	BA	3720	1/1	0.97	0.07	-	30,30,30,30	0
56	MG	DA	3286	1/1	0.99	0.09	-	6,6,6,6	0
56	MG	DA	3604	1/1	0.96	0.22	-	43,43,43,43	0
56	MG	DA	3462	1/1	0.96	0.09	-	24,24,24,24	0
56	MG	CA	1948	1/1	0.97	0.35	-	43,43,43,43	0
56	MG	CA	1642	1/1	0.97	0.10	-	29,29,29,29	0
56	MG	BA	3288	1/1	0.97	0.15	-	8,8,8,8	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	AA	1725	1/1	0.95	0.15	-	23,23,23,23	0
56	MG	BA	3621	1/1	0.93	0.05	-	57,57,57,57	0
56	MG	BA	3653	1/1	0.97	0.13	-	38,38,38,38	0
56	MG	DA	3737	1/1	0.99	0.23	-	56,56,56,56	0
56	MG	DA	3709	1/1	0.95	0.40	-	24,24,24,24	0
56	MG	AA	1688	1/1	0.85	0.10	-	52,52,52,52	0
56	MG	DA	3001	1/1	0.94	0.19	-	37,37,37,37	0
56	MG	AA	1906	1/1	0.98	0.17	-	26,26,26,26	0
56	MG	CA	1739	1/1	0.97	0.24	-	39,39,39,39	0
56	MG	DA	3341	1/1	0.98	0.10	-	31,31,31,31	0
56	MG	DA	3638	1/1	0.97	0.19	-	37,37,37,37	0
56	MG	CX	409	1/1	0.97	0.30	-	33,33,33,33	0
56	MG	DA	3464	1/1	0.94	0.14	-	26,26,26,26	0
56	MG	AA	1824	1/1	0.92	0.14	-	78,78,78,78	0
56	MG	BA	3576	1/1	0.95	0.19	-	33,33,33,33	0
56	MG	BA	3674	1/1	0.86	0.26	-	52,52,52,52	0
56	MG	BA	3391	1/1	0.96	0.29	-	46,46,46,46	0
56	MG	BB	202	1/1	0.98	0.07	-	34,34,34,34	0
56	MG	AA	1739	1/1	0.99	0.05	-	3,3,3,3	0
56	MG	BA	3145	1/1	0.95	0.09	-	36,36,36,36	0
56	MG	DA	3012	1/1	0.96	0.10	-	16,16,16,16	0
56	MG	BA	3553	1/1	0.98	0.08	-	24,24,24,24	0
56	MG	CA	1895	1/1	0.99	0.23	-	30,30,30,30	0
56	MG	DA	3292	1/1	0.98	0.09	-	8,8,8,8	0
56	MG	AA	1853	1/1	0.99	0.06	-	12,12,12,12	0
56	MG	DA	3532	1/1	0.87	0.13	-	65,65,65,65	0
56	MG	DA	3168	1/1	0.98	0.07	-	49,49,49,49	0
56	MG	DA	3385	1/1	0.96	0.18	-	56,56,56,56	0
56	MG	AA	1740	1/1	0.96	0.08	-	53,53,53,53	0
56	MG	AA	1860	1/1	0.99	0.06	-	11,11,11,11	0
56	MG	CA	1971	1/1	0.95	0.14	-	49,49,49,49	0
56	MG	DA	3232	1/1	0.99	0.10	-	6,6,6,6	0
56	MG	DA	3565	1/1	0.95	0.12	-	36,36,36,36	0
56	MG	DA	3065	1/1	0.98	0.10	-	0,0,0,0	0
56	MG	AY	113	1/1	0.81	0.13	-	41,41,41,41	0
56	MG	BA	3201	1/1	0.98	0.06	-	22,22,22,22	0
56	MG	BA	3221	1/1	0.97	0.15	-	21,21,21,21	0
56	MG	CA	1869	1/1	0.98	0.09	-	32,32,32,32	0
56	MG	AA	1641	1/1	0.98	0.06	-	8,8,8,8	0
56	MG	BA	3096	1/1	0.99	0.14	-	16,16,16,16	0
56	MG	BA	3740	1/1	0.99	0.14	-	22,22,22,22	0
56	MG	BA	3052	1/1	0.99	0.06	-	0,0,0,0	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	AA	1751	1/1	0.99	0.12	-	20,20,20,20	0
56	MG	DN	201	1/1	0.99	0.06	-	29,29,29,29	0
56	MG	BA	3752	1/1	0.94	0.19	-	30,30,30,30	0
56	MG	AA	1655	1/1	0.98	0.05	-	26,26,26,26	0
56	MG	D8	101	1/1	0.97	0.18	-	20,20,20,20	0
56	MG	BA	3543	1/1	0.99	0.10	-	19,19,19,19	0
56	MG	BB	225	1/1	0.87	0.12	-	50,50,50,50	0
56	MG	DA	3105	1/1	0.98	0.08	-	12,12,12,12	0
56	MG	BA	3301	1/1	0.98	0.10	-	15,15,15,15	0
56	MG	BA	3689	1/1	0.93	0.13	-	44,44,44,44	0
56	MG	BA	3412	1/1	0.97	0.19	-	22,22,22,22	0
56	MG	DA	3084	1/1	0.98	0.18	-	26,26,26,26	0
56	MG	BA	3191	1/1	0.94	0.20	-	41,41,41,41	0
56	MG	CA	1749	1/1	0.83	0.15	-	41,41,41,41	0
56	MG	BA	3459	1/1	0.96	0.29	-	40,40,40,40	0
56	MG	BA	3798	1/1	0.98	0.06	-	38,38,38,38	0
56	MG	BA	3296	1/1	0.99	0.06	-	20,20,20,20	0
56	MG	DA	3033	1/1	0.97	0.09	-	10,10,10,10	0
56	MG	AA	1863	1/1	0.96	0.13	-	37,37,37,37	0
56	MG	BA	3231	1/1	0.96	0.07	-	32,32,32,32	0
56	MG	DA	3071	1/1	0.99	0.19	-	31,31,31,31	0
56	MG	AA	1714	1/1	0.93	0.18	-	28,28,28,28	0
56	MG	CA	1990	1/1	0.96	0.17	-	56,56,56,56	0
56	MG	CA	1892	1/1	0.99	0.15	-	5,5,5,5	0
56	MG	CZ	105	1/1	0.99	0.03	-	16,16,16,16	0
56	MG	DA	3158	1/1	0.98	0.14	-	15,15,15,15	0
56	MG	DA	3401	1/1	0.97	0.12	-	1,1,1,1	0
56	MG	AA	1732	1/1	0.99	0.06	-	35,35,35,35	0
56	MG	AA	1788	1/1	0.99	0.14	-	12,12,12,12	0
56	MG	BA	3348	1/1	0.95	0.18	-	9,9,9,9	0
56	MG	BR	203	1/1	0.91	0.74	-	49,49,49,49	0
56	MG	AA	1798	1/1	0.98	0.07	-	32,32,32,32	0
56	MG	DA	3623	1/1	0.98	0.10	-	39,39,39,39	0
56	MG	CA	1836	1/1	0.97	0.19	-	14,14,14,14	0
56	MG	DA	3118	1/1	0.96	0.08	-	26,26,26,26	0
56	MG	CY	118	1/1	0.88	0.14	-	56,56,56,56	0
56	MG	BA	3474	1/1	0.95	0.32	-	48,48,48,48	0
56	MG	DA	3410	1/1	0.99	0.15	-	17,17,17,17	0
56	MG	DB	211	1/1	1.00	0.04	-	15,15,15,15	0
56	MG	BA	3804	1/1	0.98	0.11	-	29,29,29,29	0
56	MG	DB	224	1/1	0.96	0.53	-	41,41,41,41	0
56	MG	BA	3643	1/1	0.98	0.08	-	23,23,23,23	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	BA	3451	1/1	0.97	0.18	-	51,51,51,51	0
56	MG	DA	3335	1/1	0.98	0.08	-	7,7,7,7	0
56	MG	BA	3558	1/1	0.93	0.23	-	54,54,54,54	0
56	MG	CA	1985	1/1	0.74	0.14	-	52,52,52,52	0
56	MG	CA	1914	1/1	0.97	0.17	-	29,29,29,29	0
56	MG	AA	1608	1/1	0.98	0.08	-	16,16,16,16	0
56	MG	CA	1961	1/1	0.98	0.15	-	27,27,27,27	0
56	MG	BA	3022	1/1	0.98	0.17	-	2,2,2,2	0
56	MG	BA	3121	1/1	0.98	0.08	-	40,40,40,40	0
56	MG	BA	3652	1/1	0.92	0.23	-	33,33,33,33	0
56	MG	BA	3354	1/1	0.97	0.11	-	19,19,19,19	0
56	MG	BA	3666	1/1	0.95	0.25	-	51,51,51,51	0
56	MG	CA	1879	1/1	0.96	0.11	-	28,28,28,28	0
56	MG	DA	3621	1/1	0.93	0.23	-	51,51,51,51	0
56	MG	DA	3260	1/1	0.98	0.07	-	15,15,15,15	0
56	MG	DA	3508	1/1	0.99	0.07	-	16,16,16,16	0
56	MG	DA	3267	1/1	0.94	0.09	-	40,40,40,40	0
56	MG	AA	1836	1/1	0.96	0.28	-	45,45,45,45	0
56	MG	CX	405	1/1	0.96	0.22	-	49,49,49,49	0
56	MG	DA	3509	1/1	0.99	0.09	-	33,33,33,33	0
56	MG	AA	1646	1/1	0.97	0.18	-	21,21,21,21	0
56	MG	BF	302	1/1	0.97	0.12	-	13,13,13,13	0
56	MG	CA	1788	1/1	0.95	0.15	-	40,40,40,40	0
56	MG	CA	1917	1/1	0.85	0.15	-	70,70,70,70	0
56	MG	BA	3688	1/1	0.97	0.21	-	38,38,38,38	0
56	MG	AA	1706	1/1	0.99	0.08	-	26,26,26,26	0
56	MG	B5	101	1/1	0.98	0.09	-	18,18,18,18	0
56	MG	BA	3456	1/1	0.98	0.12	-	35,35,35,35	0
56	MG	BA	3147	1/1	0.98	0.14	-	53,53,53,53	0
56	MG	BA	3259	1/1	0.97	0.16	-	27,27,27,27	0
56	MG	CA	1711	1/1	0.93	0.10	-	23,23,23,23	0
56	MG	BA	3640	1/1	0.95	0.11	-	34,34,34,34	0
56	MG	BA	3128	1/1	0.92	0.21	-	38,38,38,38	0
56	MG	BA	3457	1/1	0.98	0.06	-	24,24,24,24	0
56	MG	CA	1902	1/1	0.90	0.12	-	50,50,50,50	0
56	MG	DA	3446	1/1	0.97	0.15	-	20,20,20,20	0
56	MG	AA	1702	1/1	0.96	0.15	-	40,40,40,40	0
56	MG	AA	1676	1/1	0.94	0.13	-	49,49,49,49	0
56	MG	DA	3645	1/1	0.98	0.09	-	20,20,20,20	0
56	MG	DA	3403	1/1	0.90	0.29	-	42,42,42,42	0
56	MG	CZ	110	1/1	0.98	0.09	-	33,33,33,33	0
56	MG	BA	3156	1/1	0.91	0.11	-	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	DA	3340	1/1	0.96	0.13	-	33,33,33,33	0
56	MG	DA	3123	1/1	0.98	0.06	-	1,1,1,1	0
56	MG	BA	3349	1/1	0.94	0.09	-	42,42,42,42	0
56	MG	CA	1987	1/1	0.95	0.72	-	58,58,58,58	0
56	MG	BA	3710	1/1	0.95	0.15	-	13,13,13,13	0
56	MG	BA	3629	1/1	0.87	0.09	-	53,53,53,53	0
56	MG	BB	226	1/1	0.97	0.13	-	59,59,59,59	0
56	MG	BA	3206	1/1	0.98	0.09	-	37,37,37,37	0
56	MG	BA	3719	1/1	0.83	0.33	-	51,51,51,51	0
56	MG	BW	201	1/1	0.97	0.23	-	23,23,23,23	0
56	MG	BA	3695	1/1	0.91	0.17	-	50,50,50,50	0
56	MG	CA	1606	1/1	0.95	0.12	-	27,27,27,27	0
56	MG	BA	3425	1/1	0.90	0.31	-	48,48,48,48	0
56	MG	DA	3675	1/1	0.94	0.40	-	55,55,55,55	0
56	MG	BA	3282	1/1	0.99	0.07	-	6,6,6,6	0
56	MG	DA	3706	1/1	0.95	0.47	-	42,42,42,42	0
56	MG	CA	1997	1/1	0.95	0.27	-	24,24,24,24	0
56	MG	AA	1910	1/1	0.97	0.23	-	32,32,32,32	0
56	MG	CA	1658	1/1	0.98	0.12	-	37,37,37,37	0
56	MG	CA	1814	1/1	0.95	0.09	-	31,31,31,31	0
56	MG	BA	3623	1/1	0.95	0.14	-	43,43,43,43	0
56	MG	BA	3650	1/1	0.98	0.41	-	33,33,33,33	0
56	MG	DA	3636	1/1	0.97	0.14	-	46,46,46,46	0
56	MG	CA	1913	1/1	0.94	0.10	-	41,41,41,41	0
56	MG	DA	3128	1/1	0.98	0.18	-	46,46,46,46	0
56	MG	AH	202	1/1	0.99	0.17	-	41,41,41,41	0
56	MG	DA	3045	1/1	0.99	0.03	-	7,7,7,7	0
56	MG	DA	3487	1/1	0.97	0.05	-	48,48,48,48	0
56	MG	CA	1714	1/1	0.99	0.14	-	13,13,13,13	0
56	MG	BA	3332	1/1	0.99	0.12	-	9,9,9,9	0
56	MG	DA	3298	1/1	0.98	0.04	-	0,0,0,0	0
56	MG	CA	1909	1/1	0.98	0.23	-	33,33,33,33	0
56	MG	CA	1807	1/1	0.99	0.26	-	14,14,14,14	0
56	MG	DA	3339	1/1	0.98	0.08	-	47,47,47,47	0
56	MG	DA	3451	1/1	0.97	0.17	-	5,5,5,5	0
56	MG	BR	201	1/1	0.97	0.07	-	24,24,24,24	0
56	MG	DA	3246	1/1	0.98	0.09	-	15,15,15,15	0
56	MG	DA	3342	1/1	0.99	0.09	-	12,12,12,12	0
56	MG	BA	3461	1/1	0.94	0.11	-	23,23,23,23	0
56	MG	DB	223	1/1	0.97	0.12	-	53,53,53,53	0
56	MG	DA	3701	1/1	0.98	0.06	-	27,27,27,27	0
56	MG	DA	3257	1/1	0.93	0.21	-	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	CY	105	1/1	0.90	0.14	-	58,58,58,58	0
56	MG	BA	3175	1/1	0.96	0.08	-	12,12,12,12	0
56	MG	CA	1779	1/1	0.97	0.12	-	14,14,14,14	0
56	MG	CY	102	1/1	0.99	0.07	-	11,11,11,11	0
56	MG	DB	214	1/1	0.96	0.28	-	34,34,34,34	0
56	MG	AA	1811	1/1	0.94	0.16	-	16,16,16,16	0
56	MG	BA	3046	1/1	0.99	0.07	-	20,20,20,20	0
56	MG	DA	3539	1/1	0.99	0.06	-	3,3,3,3	0
56	MG	AA	1748	1/1	0.94	0.16	-	54,54,54,54	0
56	MG	DA	3491	1/1	0.98	0.07	-	44,44,44,44	0
56	MG	DA	3107	1/1	1.00	0.07	-	16,16,16,16	0
56	MG	BA	3253	1/1	0.95	0.12	-	44,44,44,44	0
56	MG	CA	1675	1/1	0.99	0.05	-	26,26,26,26	0
56	MG	AA	1722	1/1	0.97	0.08	-	35,35,35,35	0
56	MG	BA	3212	1/1	0.99	0.03	-	17,17,17,17	0
56	MG	CA	1603	1/1	0.95	0.17	-	41,41,41,41	0
56	MG	DA	3222	1/1	0.99	0.15	-	2,2,2,2	0
56	MG	DA	3010	1/1	0.98	0.17	-	2,2,2,2	0
56	MG	BA	3483	1/1	0.97	0.11	-	29,29,29,29	0
56	MG	BA	3676	1/1	0.98	0.08	-	20,20,20,20	0
56	MG	BA	3248	1/1	0.97	0.12	-	42,42,42,42	0
56	MG	BA	3714	1/1	0.94	0.13	-	61,61,61,61	0
56	MG	BA	3702	1/1	0.97	0.14	-	47,47,47,47	0
56	MG	DA	3413	1/1	0.96	0.14	-	28,28,28,28	0
56	MG	DA	3496	1/1	0.97	0.18	-	18,18,18,18	0
56	MG	BA	3799	1/1	0.95	0.18	-	34,34,34,34	0
56	MG	AA	1733	1/1	0.96	0.07	-	24,24,24,24	0
56	MG	AA	1846	1/1	0.95	0.12	-	55,55,55,55	0
56	MG	DA	3047	1/1	0.98	0.06	-	10,10,10,10	0
56	MG	BA	3453	1/1	0.83	0.40	-	43,43,43,43	0
56	MG	DA	3289	1/1	0.95	0.15	-	31,31,31,31	0
56	MG	BA	3618	1/1	0.99	0.10	-	10,10,10,10	0
56	MG	DA	3474	1/1	0.93	0.29	-	34,34,34,34	0
56	MG	CA	1928	1/1	0.99	0.06	-	17,17,17,17	0
56	MG	BA	3344	1/1	0.90	0.15	-	42,42,42,42	0
56	MG	CA	1635	1/1	0.93	0.28	-	39,39,39,39	0
56	MG	DA	3037	1/1	0.98	0.07	-	57,57,57,57	0
56	MG	CA	1717	1/1	0.97	0.12	-	32,32,32,32	0
56	MG	DA	3742	1/1	0.99	0.34	-	2,2,2,2	0
56	MG	DA	3141	1/1	0.97	0.09	-	9,9,9,9	0
56	MG	CA	1656	1/1	0.97	0.12	-	48,48,48,48	0
56	MG	DA	3480	1/1	0.94	0.18	-	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	DA	3717	1/1	0.97	0.14	-	24,24,24,24	0
56	MG	DA	3020	1/1	0.97	0.24	-	9,9,9,9	0
56	MG	DA	3732	1/1	0.97	0.16	-	29,29,29,29	0
56	MG	CA	1778	1/1	0.98	0.12	-	34,34,34,34	0
56	MG	AF	202	1/1	0.87	0.12	-	58,58,58,58	0
56	MG	BA	3294	1/1	0.97	0.15	-	43,43,43,43	0
56	MG	DA	3526	1/1	0.99	0.15	-	12,12,12,12	0
56	MG	DA	3652	1/1	0.92	0.08	-	45,45,45,45	0
56	MG	CA	1612	1/1	0.94	0.12	-	30,30,30,30	0
56	MG	CC	303	1/1	0.98	0.19	-	22,22,22,22	0
56	MG	DA	3036	1/1	0.96	0.07	-	13,13,13,13	0
56	MG	BA	3801	1/1	0.95	0.12	-	45,45,45,45	0
56	MG	AA	1654	1/1	0.80	0.22	-	80,80,80,80	0
56	MG	AA	1770	1/1	0.96	0.11	-	42,42,42,42	0
56	MG	DA	3443	1/1	0.95	0.16	-	25,25,25,25	0
56	MG	DA	3535	1/1	0.94	0.09	-	42,42,42,42	0
56	MG	DA	3070	1/1	0.97	0.07	-	20,20,20,20	0
56	MG	BA	3071	1/1	0.99	0.03	-	34,34,34,34	0
56	MG	AY	118	1/1	0.98	0.08	-	45,45,45,45	0
56	MG	AA	1813	1/1	0.97	0.06	-	23,23,23,23	0
56	MG	DA	3427	1/1	0.99	0.11	-	7,7,7,7	0
56	MG	DV	201	1/1	0.94	0.08	-	61,61,61,61	0
56	MG	CA	1618	1/1	0.95	0.25	-	27,27,27,27	0
56	MG	BA	3243	1/1	0.97	0.12	-	14,14,14,14	0
56	MG	CA	1770	1/1	0.96	0.11	-	30,30,30,30	0
56	MG	BA	3165	1/1	0.99	0.05	-	8,8,8,8	0
56	MG	BA	3550	1/1	0.99	0.04	-	13,13,13,13	0
56	MG	BA	3739	1/1	0.98	0.07	-	37,37,37,37	0
56	MG	B1	101	1/1	0.96	0.12	-	28,28,28,28	0
56	MG	CA	1647	1/1	0.96	0.06	-	25,25,25,25	0
56	MG	CA	1608	1/1	0.97	0.12	-	27,27,27,27	0
56	MG	CA	1989	1/1	0.98	0.09	-	33,33,33,33	0
56	MG	DA	3415	1/1	0.97	0.08	-	27,27,27,27	0
56	MG	BB	218	1/1	0.93	0.17	-	51,51,51,51	0
56	MG	CA	1645	1/1	0.95	0.11	-	45,45,45,45	0
56	MG	BA	3447	1/1	0.99	0.04	-	16,16,16,16	0
56	MG	AA	1845	1/1	0.95	0.66	-	48,48,48,48	0
56	MG	DA	3243	1/1	0.90	0.17	-	41,41,41,41	0
56	MG	DA	3129	1/1	0.92	0.08	-	32,32,32,32	0
56	MG	DA	3456	1/1	0.92	0.16	-	37,37,37,37	0
56	MG	BA	3726	1/1	0.93	0.41	-	66,66,66,66	0
56	MG	BA	3784	1/1	0.95	0.10	-	36,36,36,36	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	CA	1787	1/1	0.99	0.04	-	19,19,19,19	0
56	MG	B7	103	1/1	0.98	0.10	-	47,47,47,47	0
56	MG	BA	3172	1/1	0.93	0.08	-	63,63,63,63	0
56	MG	DB	212	1/1	0.87	0.20	-	45,45,45,45	0
56	MG	DA	3651	1/1	0.93	0.15	-	21,21,21,21	0
56	MG	DA	3125	1/1	0.98	0.20	-	15,15,15,15	0
56	MG	DA	3478	1/1	0.99	0.10	-	18,18,18,18	0
56	MG	BA	3080	1/1	0.96	0.12	-	19,19,19,19	0
56	MG	BB	208	1/1	0.95	0.08	-	18,18,18,18	0
56	MG	CA	1925	1/1	0.90	0.31	-	45,45,45,45	0
56	MG	DA	3055	1/1	0.85	0.14	-	26,26,26,26	0
56	MG	AA	1734	1/1	0.99	0.06	-	21,21,21,21	0
56	MG	DA	3094	1/1	0.99	0.14	-	13,13,13,13	0
56	MG	CA	1725	1/1	0.98	0.07	-	26,26,26,26	0
56	MG	DA	3134	1/1	0.81	0.11	-	61,61,61,61	0
56	MG	DA	3262	1/1	0.96	0.16	-	20,20,20,20	0
56	MG	DA	3223	1/1	0.98	0.05	-	26,26,26,26	0
56	MG	DA	3038	1/1	0.95	0.17	-	14,14,14,14	0
56	MG	CA	2009	1/1	0.91	0.30	-	41,41,41,41	0
56	MG	DA	3137	1/1	0.97	0.11	-	20,20,20,20	0
56	MG	DA	3405	1/1	0.93	0.05	-	57,57,57,57	0
56	MG	DA	3241	1/1	0.99	0.20	-	12,12,12,12	0
56	MG	BA	3410	1/1	0.95	0.17	-	37,37,37,37	0
56	MG	AO	101	1/1	0.99	0.08	-	30,30,30,30	0
56	MG	BA	3033	1/1	0.97	0.13	-	24,24,24,24	0
56	MG	DA	3583	1/1	0.81	0.38	-	43,43,43,43	0
56	MG	AA	1719	1/1	0.93	0.12	-	28,28,28,28	0
56	MG	DA	3220	1/1	0.99	0.08	-	22,22,22,22	0
56	MG	DA	3683	1/1	0.77	0.08	-	89,89,89,89	0
56	MG	CA	1688	1/1	0.95	0.10	-	26,26,26,26	0
56	MG	DA	3581	1/1	0.93	0.12	-	16,16,16,16	0
56	MG	DA	3470	1/1	0.95	0.13	-	47,47,47,47	0
56	MG	DA	3189	1/1	0.77	0.19	-	40,40,40,40	0
56	MG	AA	1778	1/1	0.97	0.10	-	50,50,50,50	0
56	MG	DA	3714	1/1	0.93	0.23	-	28,28,28,28	0
56	MG	BA	3581	1/1	0.94	0.24	-	39,39,39,39	0
56	MG	DA	3308	1/1	0.93	0.19	-	36,36,36,36	0
56	MG	CA	1940	1/1	0.98	0.08	-	35,35,35,35	0
56	MG	BA	3364	1/1	0.92	0.15	-	60,60,60,60	0
56	MG	AK	201	1/1	0.96	0.07	-	66,66,66,66	0
56	MG	CA	1734	1/1	0.98	0.13	-	42,42,42,42	0
56	MG	DA	3310	1/1	0.98	0.13	-	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	BA	3407	1/1	0.93	0.08	-	15,15,15,15	0
56	MG	DA	3635	1/1	0.94	0.15	-	47,47,47,47	0
56	MG	AA	1898	1/1	0.98	0.14	-	27,27,27,27	0
56	MG	CA	1886	1/1	0.91	0.30	-	62,62,62,62	0
56	MG	AA	1819	1/1	0.99	0.07	-	1,1,1,1	0
56	MG	DT	201	1/1	0.97	0.10	-	25,25,25,25	0
56	MG	DA	3593	1/1	0.97	0.27	-	28,28,28,28	0
56	MG	BA	3361	1/1	0.99	0.07	-	33,33,33,33	0
56	MG	CA	1801	1/1	0.96	0.05	-	30,30,30,30	0
56	MG	D7	101	1/1	0.98	0.07	-	22,22,22,22	0
56	MG	BA	3097	1/1	0.98	0.09	-	16,16,16,16	0
56	MG	AA	1629	1/1	0.93	0.34	-	59,59,59,59	0
56	MG	CE	201	1/1	0.40	0.25	-	70,70,70,70	0
56	MG	CA	1614	1/1	0.62	0.35	-	39,39,39,39	0
56	MG	BA	3781	1/1	0.90	0.35	-	54,54,54,54	0
56	MG	AA	1904	1/1	0.96	0.17	-	47,47,47,47	0
56	MG	AA	1668	1/1	0.95	0.09	-	14,14,14,14	0
56	MG	AC	302	1/1	0.91	0.24	-	57,57,57,57	0
56	MG	BA	3445	1/1	0.97	0.13	-	45,45,45,45	0
56	MG	DA	3606	1/1	0.97	0.30	-	54,54,54,54	0
56	MG	BA	3589	1/1	0.93	0.13	-	62,62,62,62	0
56	MG	BA	3270	1/1	0.87	0.13	-	8,8,8,8	0
56	MG	DA	3138	1/1	0.87	0.21	-	52,52,52,52	0
56	MG	CD	303	1/1	0.94	0.13	-	21,21,21,21	0
56	MG	AA	1795	1/1	0.80	0.23	-	65,65,65,65	0
56	MG	BA	3724	1/1	0.99	0.12	-	32,32,32,32	0
56	MG	DA	3100	1/1	0.98	0.07	-	3,3,3,3	0
56	MG	CZ	111	1/1	0.99	0.10	-	49,49,49,49	0
56	MG	CA	1945	1/1	0.97	0.23	-	18,18,18,18	0
56	MG	BA	3384	1/1	0.99	0.07	-	1,1,1,1	0
56	MG	DA	3481	1/1	0.97	0.08	-	31,31,31,31	0
56	MG	BA	3696	1/1	0.93	0.26	-	37,37,37,37	0
56	MG	D2	102	1/1	0.90	0.57	-	49,49,49,49	0
56	MG	BH	202	1/1	0.97	0.08	-	34,34,34,34	0
56	MG	AE	201	1/1	0.72	0.37	-	60,60,60,60	0
56	MG	BA	3584	1/1	0.96	0.10	-	46,46,46,46	0
56	MG	CA	1798	1/1	0.99	0.24	-	51,51,51,51	0
56	MG	DA	3553	1/1	0.99	0.06	-	6,6,6,6	0
56	MG	BA	3232	1/1	0.98	0.07	-	25,25,25,25	0
56	MG	DA	3473	1/1	0.94	0.18	-	55,55,55,55	0
56	MG	BA	3104	1/1	0.96	0.10	-	15,15,15,15	0
56	MG	AA	1874	1/1	0.99	0.26	-	10,10,10,10	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	CA	1705	1/1	0.93	0.16	-	31,31,31,31	0
56	MG	BA	3338	1/1	0.96	0.09	-	27,27,27,27	0
56	MG	CA	1946	1/1	0.93	0.24	-	41,41,41,41	0
56	MG	AA	1843	1/1	0.99	0.07	-	28,28,28,28	0
56	MG	BA	3077	1/1	0.99	0.13	-	8,8,8,8	0
56	MG	CA	2012	1/1	0.86	0.19	-	59,59,59,59	0
56	MG	AA	1643	1/1	0.94	0.09	-	24,24,24,24	0
56	MG	BA	3776	1/1	0.98	0.09	-	6,6,6,6	0
56	MG	DA	3087	1/1	0.99	0.18	-	27,27,27,27	0
56	MG	DA	3534	1/1	0.98	0.16	-	26,26,26,26	0
56	MG	AA	1840	1/1	0.81	0.26	-	49,49,49,49	0
56	MG	AA	1908	1/1	0.99	0.10	-	13,13,13,13	0
56	MG	DA	3671	1/1	0.98	0.11	-	6,6,6,6	0
56	MG	BA	3136	1/1	0.96	0.05	-	32,32,32,32	0
56	MG	BA	3072	1/1	0.96	0.18	-	26,26,26,26	0
56	MG	DA	3229	1/1	0.99	0.06	-	1,1,1,1	0
56	MG	CZ	115	1/1	0.95	0.22	-	40,40,40,40	0
56	MG	BA	3508	1/1	0.98	0.14	-	5,5,5,5	0
56	MG	BA	3670	1/1	0.99	0.08	-	29,29,29,29	0
56	MG	CA	1834	1/1	0.92	0.18	-	61,61,61,61	0
56	MG	BA	3023	1/1	1.00	0.11	-	2,2,2,2	0
56	MG	CF	201	1/1	0.95	0.09	-	50,50,50,50	0
56	MG	BA	3180	1/1	0.96	0.10	-	8,8,8,8	0
56	MG	DA	3542	1/1	0.95	0.14	-	48,48,48,48	0
56	MG	BA	3197	1/1	0.88	0.16	-	46,46,46,46	0
56	MG	AA	1616	1/1	0.99	0.14	-	7,7,7,7	0
56	MG	AA	1760	1/1	0.99	0.13	-	24,24,24,24	0
56	MG	DA	3188	1/1	0.98	0.10	-	9,9,9,9	0
56	MG	BA	3549	1/1	0.95	0.09	-	40,40,40,40	0
56	MG	AA	1656	1/1	0.97	0.07	-	41,41,41,41	0
56	MG	BA	3707	1/1	0.98	0.31	-	31,31,31,31	0
56	MG	AX	401	1/1	0.93	0.15	-	55,55,55,55	0
56	MG	BB	211	1/1	0.97	0.08	-	16,16,16,16	0
56	MG	CA	1684	1/1	0.94	0.10	-	44,44,44,44	0
56	MG	CA	1996	1/1	0.93	0.17	-	41,41,41,41	0
56	MG	BA	3538	1/1	0.98	0.06	-	10,10,10,10	0
56	MG	AA	1796	1/1	0.98	0.11	-	15,15,15,15	0
56	MG	DA	3376	1/1	0.98	0.07	-	35,35,35,35	0
56	MG	DA	3194	1/1	0.94	0.17	-	42,42,42,42	0
56	MG	BA	3312	1/1	0.98	0.10	-	7,7,7,7	0
56	MG	CA	1947	1/1	0.88	0.31	-	44,44,44,44	0
56	MG	CI	202	1/1	0.97	0.47	-	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	BA	3477	1/1	0.96	0.20	-	31,31,31,31	0
56	MG	CY	112	1/1	0.90	0.09	-	20,20,20,20	0
56	MG	BA	3345	1/1	0.83	0.13	-	37,37,37,37	0
56	MG	BA	3186	1/1	0.96	0.23	-	28,28,28,28	0
56	MG	DO	201	1/1	0.95	0.27	-	23,23,23,23	0
56	MG	AA	1625	1/1	0.88	0.15	-	27,27,27,27	0
56	MG	BA	3596	1/1	0.99	0.14	-	8,8,8,8	0
56	MG	AA	1855	1/1	0.99	0.11	-	23,23,23,23	0
56	MG	BA	3059	1/1	0.98	0.08	-	11,11,11,11	0
56	MG	BA	3278	1/1	0.98	0.07	-	37,37,37,37	0
56	MG	DA	3069	1/1	0.97	0.12	-	15,15,15,15	0
56	MG	DA	3402	1/1	0.96	0.12	-	19,19,19,19	0
56	MG	CA	1792	1/1	0.99	0.09	-	16,16,16,16	0
56	MG	CA	1863	1/1	0.97	0.15	-	33,33,33,33	0
56	MG	CA	1858	1/1	0.94	0.10	-	66,66,66,66	0
56	MG	AC	306	1/1	0.95	0.09	-	21,21,21,21	0
56	MG	BA	3454	1/1	0.99	0.17	-	26,26,26,26	0
56	MG	DA	3027	1/1	0.95	0.22	-	22,22,22,22	0
56	MG	CA	1756	1/1	0.98	0.18	-	32,32,32,32	0
56	MG	CA	1752	1/1	0.97	0.11	-	24,24,24,24	0
56	MG	BB	212	1/1	0.96	0.16	-	50,50,50,50	0
56	MG	BA	3490	1/1	0.97	0.11	-	22,22,22,22	0
56	MG	DA	3681	1/1	0.96	0.23	-	28,28,28,28	0
56	MG	AA	1890	1/1	0.85	0.16	-	39,39,39,39	0
56	MG	DA	3736	1/1	0.92	0.14	-	64,64,64,64	0
56	MG	DA	3122	1/1	0.94	0.10	-	46,46,46,46	0
56	MG	CZ	113	1/1	0.93	0.13	-	64,64,64,64	0
56	MG	BA	3579	1/1	0.95	0.16	-	41,41,41,41	0
56	MG	BA	3671	1/1	0.91	0.18	-	57,57,57,57	0
56	MG	BA	3610	1/1	0.96	0.09	-	34,34,34,34	0
56	MG	DA	3135	1/1	0.98	0.21	-	25,25,25,25	0
56	MG	CG	201	1/1	0.94	0.19	-	52,52,52,52	0
56	MG	DA	3096	1/1	0.98	0.09	-	22,22,22,22	0
56	MG	CA	1723	1/1	0.95	0.09	-	33,33,33,33	0
56	MG	CA	1993	1/1	0.97	0.30	-	48,48,48,48	0
56	MG	DA	3663	1/1	0.96	0.16	-	19,19,19,19	0
56	MG	CA	1771	1/1	0.95	0.08	-	47,47,47,47	0
56	MG	CA	1731	1/1	0.95	0.11	-	30,30,30,30	0
56	MG	AA	1743	1/1	0.98	0.07	-	33,33,33,33	0
56	MG	BA	3240	1/1	0.98	0.10	-	10,10,10,10	0
56	MG	BA	3173	1/1	0.99	0.07	-	12,12,12,12	0
56	MG	DA	3326	1/1	0.96	0.09	-	27,27,27,27	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	BA	3119	1/1	0.91	0.20	-	39,39,39,39	0
56	MG	DA	3357	1/1	0.96	0.16	-	14,14,14,14	0
56	MG	DB	227	1/1	0.96	0.17	-	53,53,53,53	0
56	MG	BA	3302	1/1	0.98	0.12	-	21,21,21,21	0
56	MG	DB	217	1/1	0.96	0.17	-	24,24,24,24	0
56	MG	CA	1819	1/1	0.79	0.19	-	46,46,46,46	0
56	MG	BA	3056	1/1	0.98	0.09	-	1,1,1,1	0
56	MG	DA	3515	1/1	0.99	0.05	-	5,5,5,5	0
56	MG	DA	3528	1/1	0.98	0.23	-	14,14,14,14	0
56	MG	BA	3334	1/1	0.95	0.15	-	23,23,23,23	0
56	MG	DA	3068	1/1	0.98	0.08	-	0,0,0,0	0
56	MG	CA	1685	1/1	0.98	0.05	-	6,6,6,6	0
56	MG	BA	3479	1/1	0.98	0.08	-	45,45,45,45	0
56	MG	BA	3588	1/1	0.98	0.05	-	22,22,22,22	0
56	MG	BA	3161	1/1	0.97	0.09	-	25,25,25,25	0
56	MG	CA	1931	1/1	0.91	0.31	-	59,59,59,59	0
56	MG	AM	201	1/1	0.93	0.28	-	54,54,54,54	0
56	MG	AA	1856	1/1	0.94	0.12	-	49,49,49,49	0
56	MG	CA	1825	1/1	0.81	0.18	-	26,26,26,26	0
56	MG	DA	3155	1/1	0.97	0.10	-	35,35,35,35	0
56	MG	DA	3178	1/1	0.79	0.14	-	47,47,47,47	0
56	MG	AA	1848	1/1	0.88	0.09	-	45,45,45,45	0
56	MG	DA	3075	1/1	0.99	0.17	-	8,8,8,8	0
56	MG	BA	3140	1/1	0.96	0.09	-	22,22,22,22	0
56	MG	DA	3520	1/1	0.95	0.26	-	63,63,63,63	0
56	MG	BA	3311	1/1	0.91	0.14	-	43,43,43,43	0
56	MG	CA	1936	1/1	0.76	0.23	-	63,63,63,63	0
56	MG	CA	1975	1/1	0.99	0.21	-	32,32,32,32	0
56	MG	BA	3060	1/1	0.99	0.08	-	7,7,7,7	0
56	MG	AA	1859	1/1	0.95	0.12	-	29,29,29,29	0
56	MG	BA	3496	1/1	0.96	0.12	-	39,39,39,39	0
56	MG	DA	3171	1/1	0.94	0.11	-	52,52,52,52	0
56	MG	AA	1809	1/1	0.92	0.13	-	54,54,54,54	0
56	MG	DA	3483	1/1	0.99	0.17	-	19,19,19,19	0
56	MG	CA	1700	1/1	0.99	0.06	-	14,14,14,14	0
56	MG	BA	3788	1/1	0.97	0.16	-	49,49,49,49	0
56	MG	BA	3679	1/1	0.98	0.14	-	26,26,26,26	0
56	MG	DA	3625	1/1	0.98	0.09	-	28,28,28,28	0
56	MG	AA	1692	1/1	0.94	0.14	-	45,45,45,45	0
56	MG	DA	3695	1/1	0.90	0.23	-	52,52,52,52	0
56	MG	BA	3664	1/1	0.92	0.10	-	41,41,41,41	0
56	MG	BA	3663	1/1	0.98	0.46	-	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	BA	3264	1/1	0.92	0.17	-	11,11,11,11	0
56	MG	BA	3153	1/1	0.96	0.23	-	60,60,60,60	0
56	MG	CA	1664	1/1	0.97	0.25	-	41,41,41,41	0
56	MG	CA	2006	1/1	0.94	0.15	-	41,41,41,41	0
56	MG	BA	3038	1/1	0.97	0.09	-	37,37,37,37	0
56	MG	AA	1708	1/1	0.91	0.08	-	48,48,48,48	0
56	MG	DA	3101	1/1	0.89	0.09	-	33,33,33,33	0
56	MG	AA	1701	1/1	0.96	0.12	-	17,17,17,17	0
56	MG	DA	3309	1/1	0.98	0.11	-	30,30,30,30	0
56	MG	DA	3493	1/1	0.96	0.11	-	30,30,30,30	0
56	MG	CA	1715	1/1	0.91	0.12	-	39,39,39,39	0
56	MG	BQ	202	1/1	0.96	0.26	-	45,45,45,45	0
56	MG	DA	3052	1/1	0.98	0.14	-	38,38,38,38	0
56	MG	BA	3683	1/1	0.98	0.15	-	18,18,18,18	0
56	MG	AA	1606	1/1	0.97	0.08	-	0,0,0,0	0
56	MG	BA	3747	1/1	0.82	0.28	-	63,63,63,63	0
56	MG	AY	114	1/1	0.99	0.07	-	20,20,20,20	0
56	MG	BA	3757	1/1	0.90	0.20	-	45,45,45,45	0
56	MG	DA	3207	1/1	0.97	0.07	-	20,20,20,20	0
56	MG	DA	3548	1/1	0.82	0.17	-	26,26,26,26	0
56	MG	CA	1765	1/1	0.96	0.10	-	38,38,38,38	0
56	MG	AA	1731	1/1	0.88	0.13	-	48,48,48,48	0
56	MG	BA	3501	1/1	0.99	0.07	-	60,60,60,60	0
56	MG	DA	3133	1/1	0.98	0.12	-	21,21,21,21	0
56	MG	DA	3081	1/1	0.95	0.14	-	47,47,47,47	0
56	MG	BA	3351	1/1	0.94	0.08	-	39,39,39,39	0
56	MG	BA	3241	1/1	0.96	0.13	-	19,19,19,19	0
56	MG	BA	3732	1/1	0.98	0.24	-	41,41,41,41	0
56	MG	CB	301	1/1	0.98	0.19	-	11,11,11,11	0
56	MG	DA	3630	1/1	0.97	0.10	-	21,21,21,21	0
56	MG	BA	3247	1/1	0.97	0.13	-	39,39,39,39	0
56	MG	CA	1650	1/1	0.93	0.21	-	49,49,49,49	0
56	MG	CA	1824	1/1	0.87	0.12	-	31,31,31,31	0
56	MG	DA	3089	1/1	0.99	0.19	-	30,30,30,30	0
56	MG	BA	3523	1/1	0.99	0.08	-	0,0,0,0	0
56	MG	DA	3291	1/1	0.99	0.19	-	6,6,6,6	0
56	MG	CA	1855	1/1	0.99	0.10	-	37,37,37,37	0
56	MG	DA	3608	1/1	0.98	0.05	-	36,36,36,36	0
56	MG	BV	201	1/1	0.98	0.17	-	21,21,21,21	0
56	MG	DA	3547	1/1	0.86	0.16	-	48,48,48,48	0
56	MG	DA	3117	1/1	0.97	0.08	-	24,24,24,24	0
56	MG	BA	3419	1/1	0.95	0.23	-	29,29,29,29	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
56	MG	DA	3506	1/1	0.98	0.10	-	6,6,6,6	0
56	MG	BA	3318	1/1	0.98	0.07	-	39,39,39,39	0
56	MG	AA	1905	1/1	0.96	0.14	-	40,40,40,40	0
56	MG	CA	1746	1/1	0.95	0.10	-	30,30,30,30	0
56	MG	BA	3736	1/1	0.97	0.23	-	39,39,39,39	0
56	MG	CA	1784	1/1	0.99	0.18	-	45,45,45,45	0
56	MG	AJ	201	1/1	0.92	0.10	-	36,36,36,36	0
56	MG	DA	3316	1/1	0.98	0.25	-	31,31,31,31	0
56	MG	AA	1896	1/1	0.94	0.29	-	57,57,57,57	0
56	MG	DA	3544	1/1	0.98	0.08	-	31,31,31,31	0
56	MG	BA	3117	1/1	0.98	0.11	-	33,33,33,33	0
56	MG	CA	1697	1/1	0.97	0.09	-	10,10,10,10	0
56	MG	DA	3325	1/1	0.97	0.14	-	34,34,34,34	0
56	MG	CJ	201	1/1	0.98	0.46	-	33,33,33,33	0
56	MG	CA	1621	1/1	0.96	0.20	-	34,34,34,34	0
56	MG	DA	3579	1/1	0.97	0.14	-	24,24,24,24	0
56	MG	CA	1701	1/1	0.91	0.09	-	40,40,40,40	0
56	MG	BA	3805	1/1	0.92	0.14	-	39,39,39,39	0
56	MG	BA	3258	1/1	0.96	0.09	-	30,30,30,30	0
56	MG	CA	1690	1/1	0.89	0.17	-	30,30,30,30	0
56	MG	DA	3423	1/1	0.93	0.18	-	39,39,39,39	0
56	MG	BA	3159	1/1	0.98	0.07	-	18,18,18,18	0
56	MG	CA	1970	1/1	0.85	0.16	-	63,63,63,63	0
56	MG	DA	3703	1/1	0.94	0.39	-	38,38,38,38	0
56	MG	DA	3537	1/1	0.98	0.21	-	19,19,19,19	0
56	MG	BA	3795	1/1	0.97	0.31	-	35,35,35,35	0
56	MG	CA	1750	1/1	0.93	0.10	-	35,35,35,35	0
56	MG	DA	3597	1/1	0.94	0.18	-	40,40,40,40	0
56	MG	AA	1784	1/1	0.95	0.14	-	22,22,22,22	0
56	MG	DB	222	1/1	0.85	0.10	-	59,59,59,59	0
56	MG	CA	1972	1/1	0.96	0.52	-	33,33,33,33	0
56	MG	DA	3233	1/1	0.96	0.13	-	5,5,5,5	0

6.5 Other polymers [i](#)

There are no such residues in this entry.