



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 09:26 PM GMT

PDB ID : 4V4P
Title : Crystal structure of 70S ribosome with thrS operator and tRNAs.
Authors : Jenner, L.; Romby, P.; Rees, B.; Schulze-Briese, C.; Springer, M.; Ehresmann, C.; Ehresmann, B.; Moras, D.; Yusupova, G.; Yusupov, M.
Deposited on : 2005-01-19
Resolution : 5.50 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

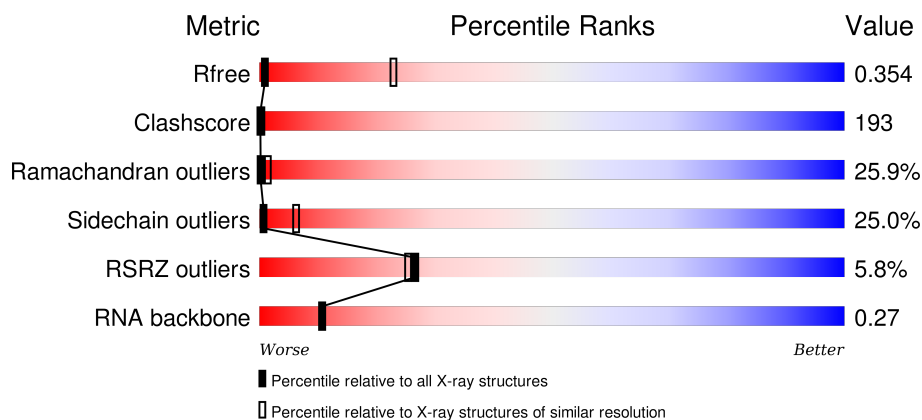
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 5.50 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	1015 (7.38-3.62)
Clashscore	102246	1020 (7.10-3.70)
Ramachandran outliers	100387	1014 (7.36-3.64)
Sidechain outliers	100360	1013 (7.38-3.62)
RSRZ outliers	91569	1014 (7.38-3.62)
RNA backbone	2183	1101 (7.80-2.80)

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	AB	123	
2	AA	2915	
3	AC	228	
4	AD	178	


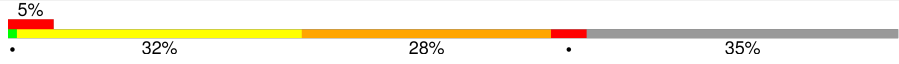


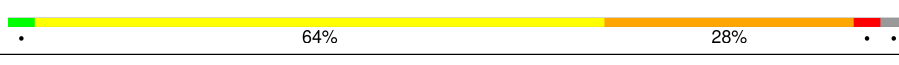
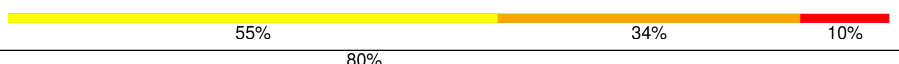





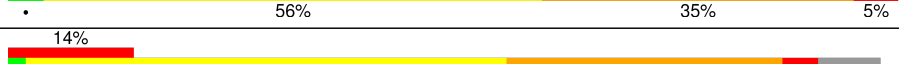
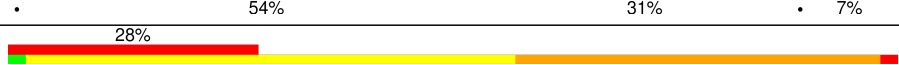
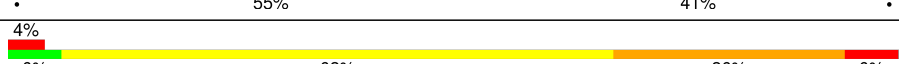

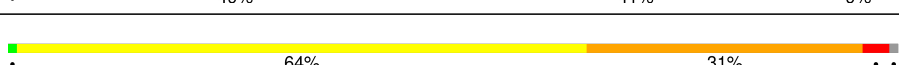
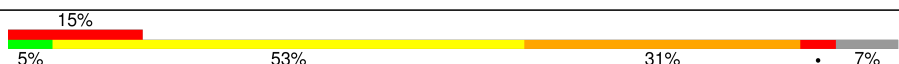
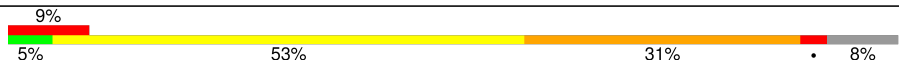
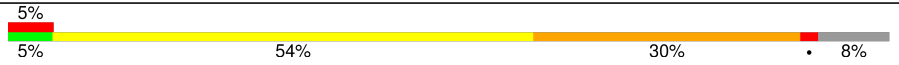


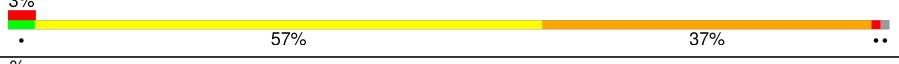

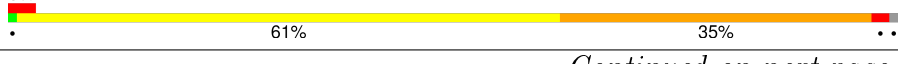

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Mol	Chain	Length	Quality of chain
5	AE	338	
6	AF	246	
7	AG	176	
8	AH	177	
9	AI	128	
9	AJ	128	
10	AK	149	
11	AL	141	
12	AM	145	
13	AN	122	
14	AO	164	
15	AP	138	
16	AQ	186	
17	AR	66	
18	AS	113	
19	AT	84	
20	AU	119	
21	AV	253	
22	AW	70	
23	AX	60	
24	A0	118	
25	A1	118	
26	A2	100	
27	A3	91	
28	A4	73	




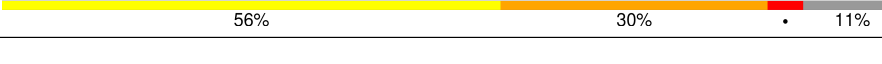
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Mol	Chain	Length	Quality of chain
29	A5	60	
30	A6	82	
31	A7	47	
32	A8	64	
33	A9	36	
34	BA	1522	
35	BB	76	
35	BC	76	
36	B1	78	
37	BE	256	
38	BF	239	
39	BG	209	
40	BH	162	
41	BI	101	
42	BJ	156	
43	BK	138	
44	BL	128	
45	BM	105	
46	BN	129	
47	BO	135	
48	BP	126	
49	BQ	61	
50	BR	89	
51	BS	88	
52	BT	105	

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Mol	Chain	Length	Quality of chain
53	BU	88	
54	BV	93	
55	BW	106	
56	BX	27	

2 Entry composition

There are 56 unique types of molecules in this entry. The entry contains 148539 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 5S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	AB	123	Total	C	N	O	P	0	0	0
			2641	1175	488	855	123			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AB	-1	A	-	INSERTION	GB 48271
AB	120	U	-	INSERTION	GB 48271

- Molecule 2 is a RNA chain called 23S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	AA	2872	Total	C	N	O	P	0	0	0
			61847	27526	11556	19893	2872			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AA	494	G	-	INSERTION	GB 48268

- Molecule 3 is a protein called 50S ribosomal protein L1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	AC	221	Total	C	N	O	S	0	0	0
			1687	1066	306	312	3			

- Molecule 4 is a protein called 50S ribosomal protein L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	AD	173	Total	C	N	O	S	0	0	0
			1308	820	246	236	6			

- Molecule 5 is a protein called 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	AE	191	Total	C	N	O	S	0	0	0
			1507	940	290	273	4			

- Molecule 6 is a protein called 50S ribosomal protein L4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	AF	189	Total	C	N	O	S	0	0	0
			1430	872	255	302	1			

- Molecule 7 is a protein called 50S ribosomal protein L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	AG	122	Total	C	N	O	S	0	0	0
			957	597	176	180	4			

- Molecule 8 is a protein called 50S ribosomal protein L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	AH	164	Total	C	N	O	S	0	0	0
			1251	787	225	237	2			

- Molecule 9 is a protein called 50S ribosomal protein L7/L12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	AI	128	Total	C	N	O	S	0	0	0
			945	599	152	193	1			
9	AJ	128	Total	C	N	O	S	0	0	0
			945	599	152	193	1			

- Molecule 10 is a protein called 50S ribosomal protein L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	AK	148	Total	C	N	O	S	0	0	0
			1145	727	205	212	1			

- Molecule 11 is a protein called 50S ribosomal protein L11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	AL	133	Total	C	N	O	S	0	0	0
			999	642	169	182	6			

- Molecule 12 is a protein called 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	AM	117	Total	C	N	O	S	0	0	0
			917	570	164	180	3			

- Molecule 13 is a protein called 50S ribosomal protein L14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	AN	122	Total	C	N	O	S	0	0	0
			937	585	180	169	3			

- Molecule 14 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
14	AO	84	Total	C	N	O	0	0	0
			639	391	109	139			

- Molecule 15 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	AP	138	Total	C	N	O	S	0	0	0
			1081	678	208	192	3			

- Molecule 16 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	AQ	113	Total	C	N	O	S	0	0	0
			866	536	165	164	1			

- Molecule 17 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	AR	52	Total	C	N	O	S	0	0	0
			406	242	74	85	5			

- Molecule 18 is a protein called 50S ribosomal protein L22.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
18	AS	108	Total	C	N	O	0	0	0
			860	542	169	149			

- Molecule 19 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	AT	76	Total	C	N	O	S	0	0	0
			602	366	102	131	3			

- Molecule 20 is a protein called 50S ribosomal protein L24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	AU	110	Total	C	N	O	S	0	0	0
			879	531	166	182				

- Molecule 21 is a protein called 50S general stress protein CTC (L25).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
21	AV	177	Total	C	N	O	S	0	0	0
			1360	859	238	257	6			

- Molecule 22 is a protein called 50S ribosomal protein L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	AW	64	Total	C	N	O	S	0	0	0
			494	301	93	99	1			

- Molecule 23 is a protein called 50S ribosomal protein L30.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	AX	60	Total	C	N	O	S	0	0	0
			477	303	91	82	1			

- Molecule 24 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	A0	105	Total	C	N	O	S	0	0	0
			855	536	174	145				

- Molecule 25 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	A1	117	Total	C	N	O	S	0	0	0
			978	608	210	159	1			

- Molecule 26 is a protein called 50S ribosomal protein L21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	A2	100	Total	C	N	O	S	0	0	0
			787	495	146	145	1			

- Molecule 27 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	A3	86	Total	C	N	O	S	0	0	0
			641	402	124	114	1			

- Molecule 28 is a protein called 50S ribosomal protein L31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	A4	73	Total	C	N	O	S	0	0	0
			604	382	110	108	4			

- Molecule 29 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	A5	58	Total	C	N	O	S	0	0	0
			457	281	94	77	5			

- Molecule 30 is a protein called 50S ribosomal protein L33.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	A6	53	Total	C	N	O	S	0	0	0
			431	274	80	76	1			

- Molecule 31 is a protein called 50S ribosomal protein L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	A7	46	Total	C	N	O	S	0	0	0
			383	230	91	60	2			

- Molecule 32 is a protein called 50S ribosomal protein L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	A8	63	Total	C	N	O	S	0	0	0
			496	312	101	78	5			

- Molecule 33 is a protein called 50S ribosomal protein L36.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	A9	35	Total	C	N	O	S	0	0	0
			285	172	64	45	4			

- Molecule 34 is a RNA chain called 16S rRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	BA	1515	Total	C	N	O	P	0	0	0
			32554	14490	6022	10527	1515			

- Molecule 35 is a RNA chain called tRNA Phe (unmodified bases).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	BB	76	Total	C	N	O	P	0	0	0
			1626	725	293	532	76			
35	BC	76	Total	C	N	O	P	0	0	0
			1626	725	293	532	76			

- Molecule 36 is a RNA chain called thrS mRNA operator.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	B1	66	Total	C	N	O	P	0	0	0
			1405	629	247	463	66			

- Molecule 37 is a protein called 30S ribosomal protein S2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	BE	234	Total	C	N	O	S	0	0	0
			1900	1213	341	341	5			

- Molecule 38 is a protein called 30S ribosomal protein S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	BF	206	Total	C	N	O	S	0	0	0
			1612	1016	314	281	1			

- Molecule 39 is a protein called 30S ribosomal protein S4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	BG	208	Total	C	N	O	S	0	0	0
			1703	1066	339	291	7			

- Molecule 40 is a protein called 30S ribosomal protein S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
40	BH	150	Total	C	N	O	S	0	0	0
			1146	724	217	201	4			

- Molecule 41 is a protein called 30S ribosomal protein S6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	BI	101	Total	C	N	O	S	0	0	0
			843	531	155	154	3			

- Molecule 42 is a protein called 30S ribosomal protein S7.

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

- Molecule 43 is a protein called 30S ribosomal protein S8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	BK	138	Total	C	N	O	S	0	0	0
			1116	705	215	193	3			

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
BK	25	ASP	GLU	CONFLICT	UNP Q5SHQ2
BK	37	ARG	LYS	CONFLICT	UNP Q5SHQ2
BK	52	ASP	GLU	CONFLICT	UNP Q5SHQ2
BK	61	VAL	ILE	CONFLICT	UNP Q5SHQ2
BK	62	TYR	HIS	CONFLICT	UNP Q5SHQ2
BK	81	HIS	LYS	CONFLICT	UNP Q5SHQ2
BK	88	LYS	ARG	CONFLICT	UNP Q5SHQ2
BK	115	SER	PRO	CONFLICT	UNP Q5SHQ2

- Molecule 44 is a protein called 30S ribosomal protein S9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	BL	127	Total	C	N	O		0	0	0
			1011	639	198	174				

- Molecule 45 is a protein called 30S ribosomal protein S10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	BM	98	Total	C	N	O	S	0	0	0
			794	499	156	138	1			

- Molecule 46 is a protein called 30S ribosomal protein S11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	BN	119	Total	C	N	O	S	0	0	0
			885	549	168	165	3			

- Molecule 47 is a protein called 30S ribosomal protein S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	BO	124	Total	C	N	O	S	0	0	0
			970	611	195	163	1			

- Molecule 48 is a protein called 30S ribosomal protein S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	BP	125	Total	C	N	O	S	0	0	0
			997	617	207	171	2			

- Molecule 49 is a protein called 30S ribosomal protein S14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	BQ	60	Total	C	N	O	S	0	0	0
			492	312	104	72	4			

- Molecule 50 is a protein called 30S ribosomal protein S15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	BR	88	Total	C	N	O	S	0	0	0
			734	459	147	126	2			

- Molecule 51 is a protein called 30S ribosomal protein S16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	BS	83	Total	C	N	O	S	0	0	0
			700	443	139	117	1			

- Molecule 52 is a protein called 30S ribosomal protein S17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	BT	104	Total	C	N	O	S	0	0	0
			857	547	161	147	2			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
BT	96	GLN	GLU	CONFLICT	UNP Q5SHP7

- Molecule 53 is a protein called 30S ribosomal protein S18.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	BU	73	Total	C	N	O	S	0	0	0
			597	380	118	99				

- Molecule 54 is a protein called 30S ribosomal protein S19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
54	BV	80	Total	C	N	O	S	0	0	0
			647	414	119	112	2			

- Molecule 55 is a protein called 30S ribosomal protein S20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
55	BW	99	Total	C	N	O	S	0	0	0
			762	469	162	129	2			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
BW	41	VAL	ILE	CONFLICT	UNP Q5SIH2

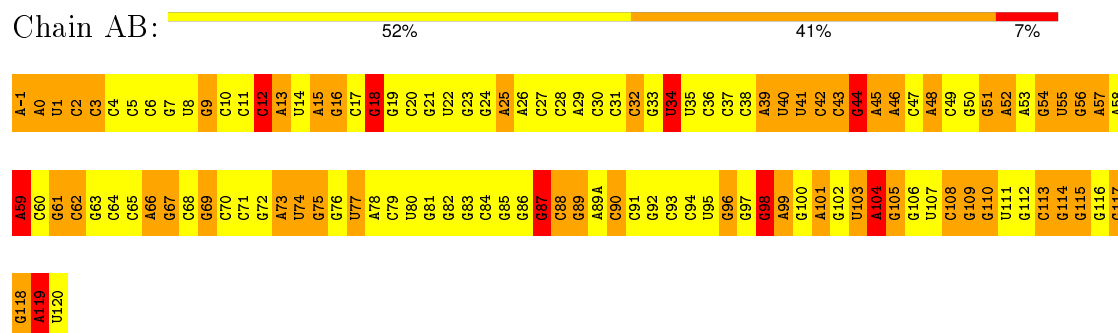
- Molecule 56 is a protein called 30S ribosomal protein Thx.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
56	BX	24	Total	C	N	O	S	0	0	0
			208	128	50	30				

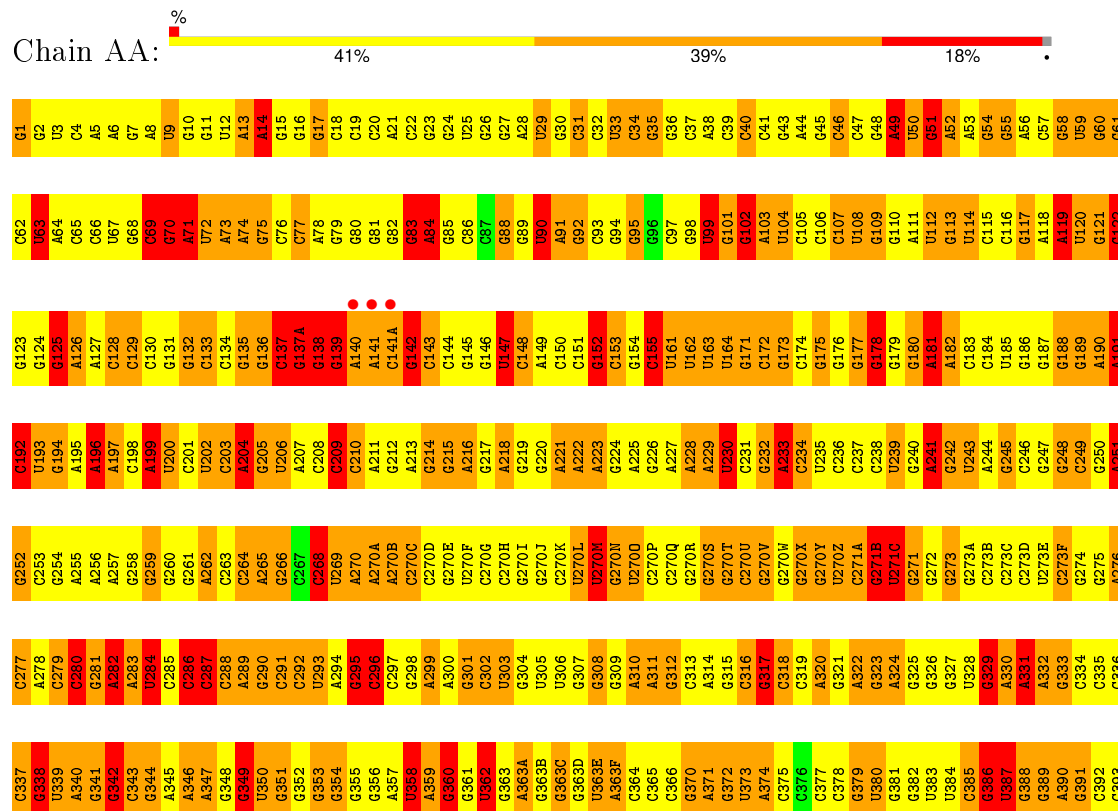
3 Residue-property plots

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

• Molecule 1: 5S ribosomal RNA



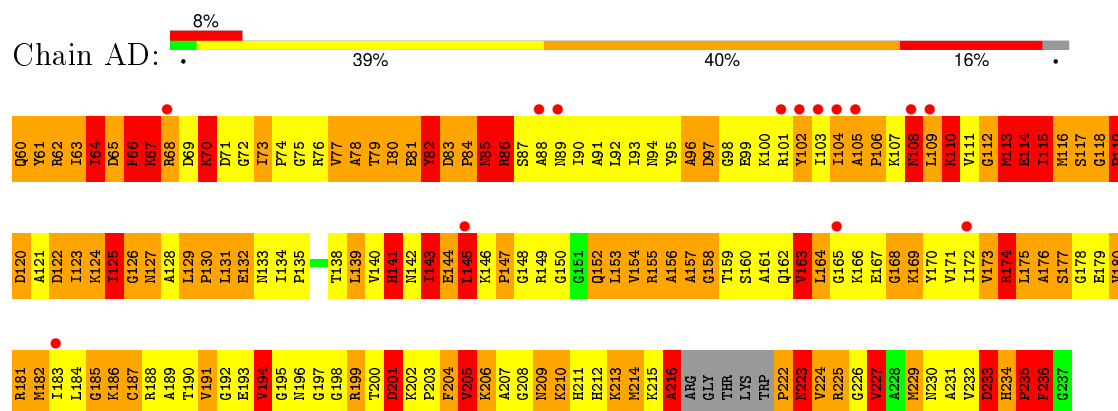
• Molecule 2: 23S ribosomal RNA



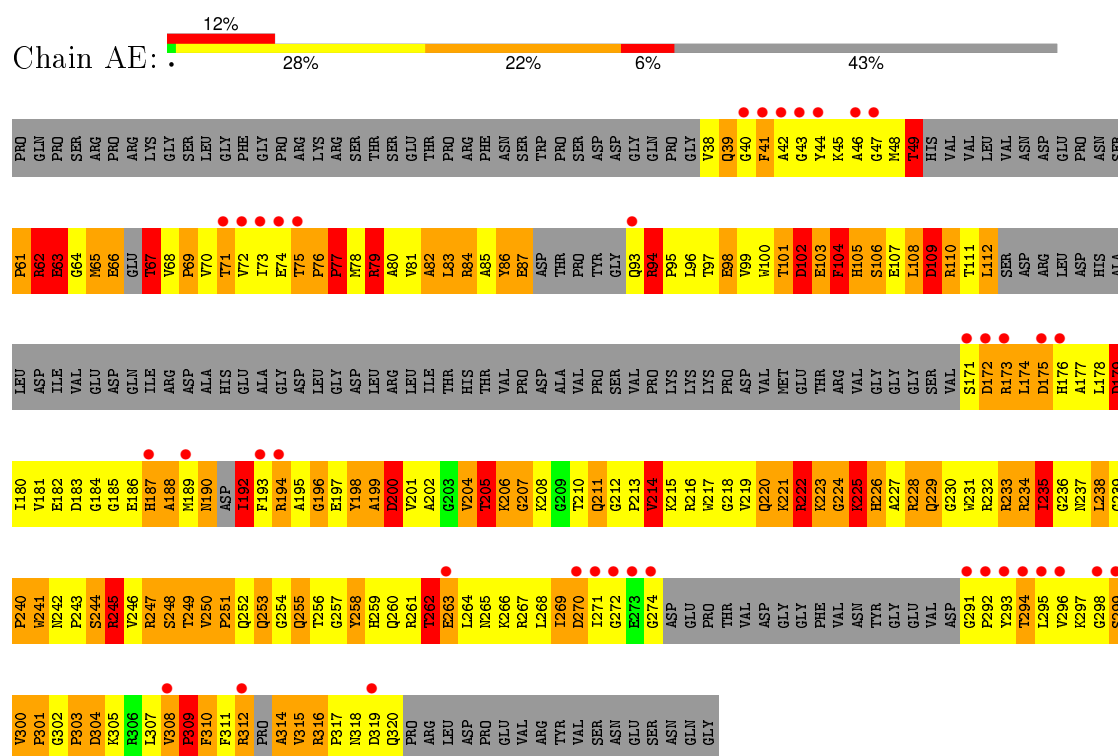
A1275	G1215	G1154	A1095	U1035	G975	C915	G854	G794	A734	G674	C635	G577	A515	A454	A394
A1276	G1216	A1155	A1096	G1036	C976	G916	G855	C795	A735	G675	C636	A578	C516	C485	G395
A1277	C1217	A1156	U1097	G1037	G977	A917	C856	C796	C736	A676	A637	G579	C517	C486	G396
A1278	C1218	G1157	A1098	C1038	G978	A918	C857	C797	G737	A677	G638	C580	G518	A457	G397
G1219	G1219	G1158	G1099	G1039	G979	G919	G858	G798	G738	C578	G639	C581	G519	G458	G398
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U1282	C1222	G1161	C1102	G1042	C982	U922	A861	G801	G741	G681	C642	C584	G522	C461	A401
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A1284	G1224	C1163	C1104	G1044	A984	C924	A863	U803	G743	C683	A644	A586	U524	G463	U403
G1285	C1225	G1164	U1105	A1045	C985	C925	G864	A804	G744	C684	C645	C587	U525	U464	C404
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A1287	A1227	C1166	G1107	G1047	G987	G928	A866	C806	U746	G686	G647	C589	C527	A466	G406
G1228	G1228	U1167	U1108	A1048	A988	G929	C867	U807	U747	C687	G648	A590	A528	G467	G407
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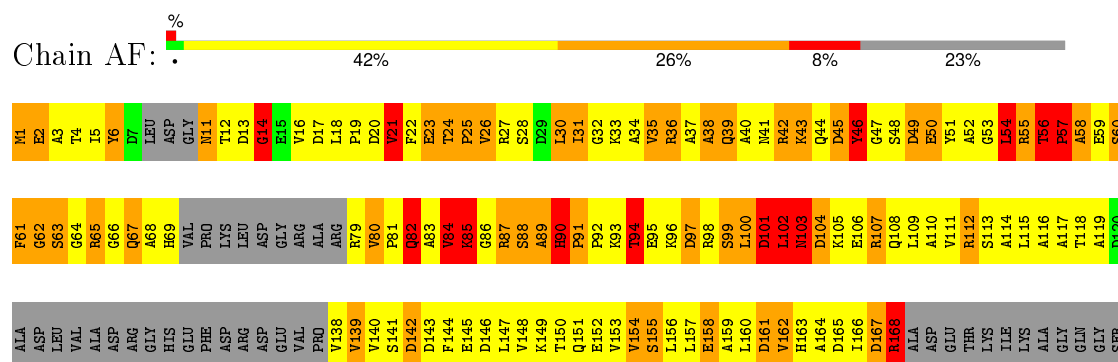
- Molecule 4: 50S ribosomal protein L2

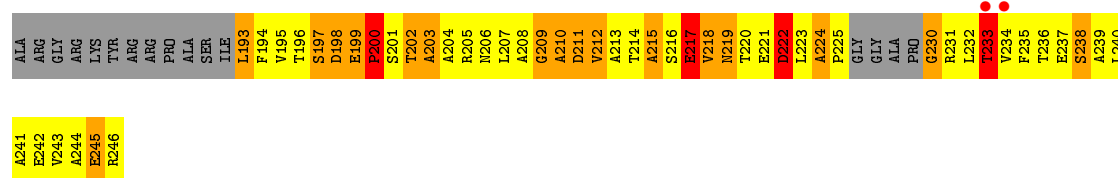


- Molecule 5: 50S ribosomal protein L3

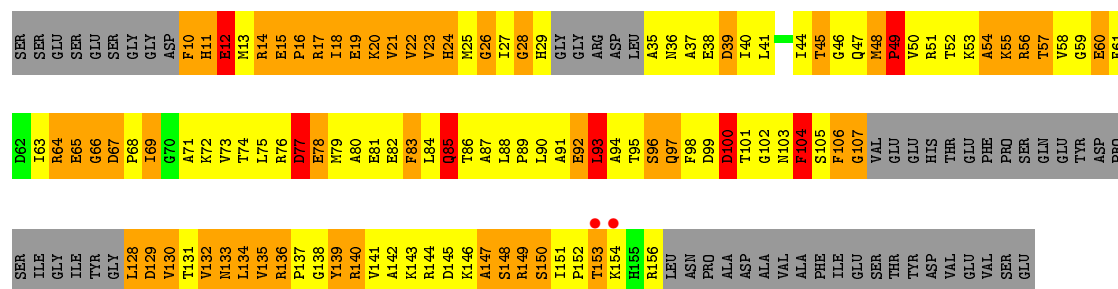


- Molecule 6: 50S ribosomal protein L4

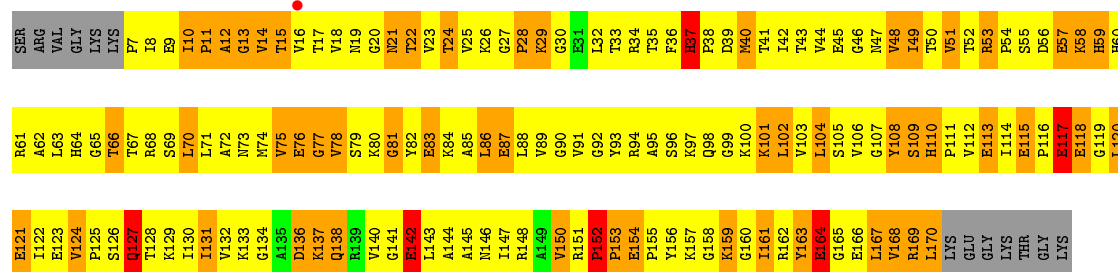




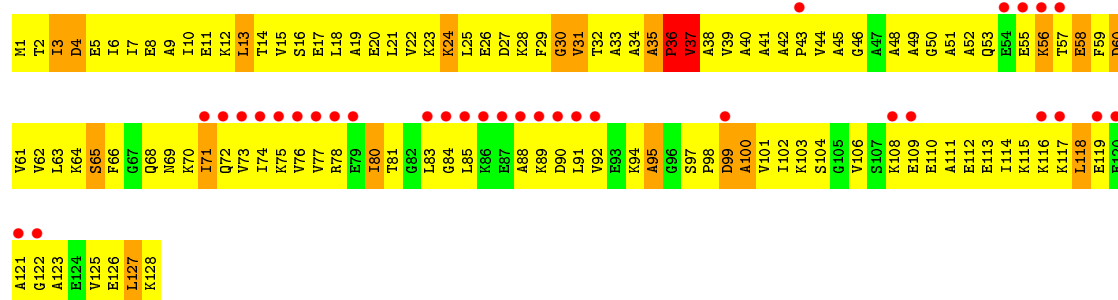
• Molecule 7: 50S ribosomal protein L5



• Molecule 8: 50S ribosomal protein L6

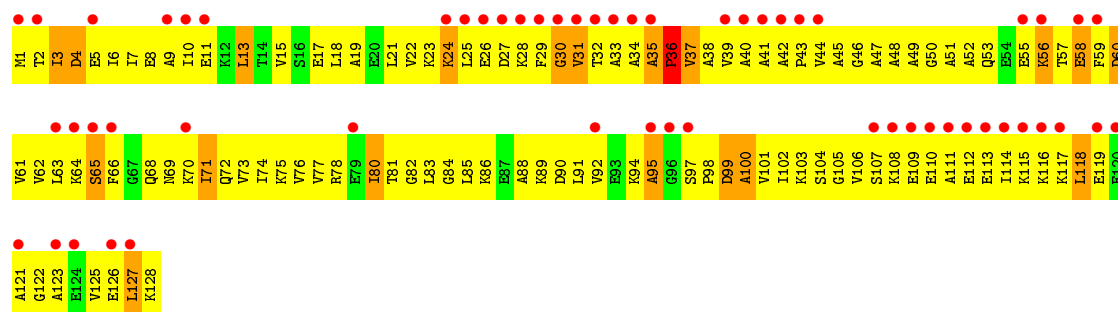


• Molecule 9: 50S ribosomal protein L7/L12

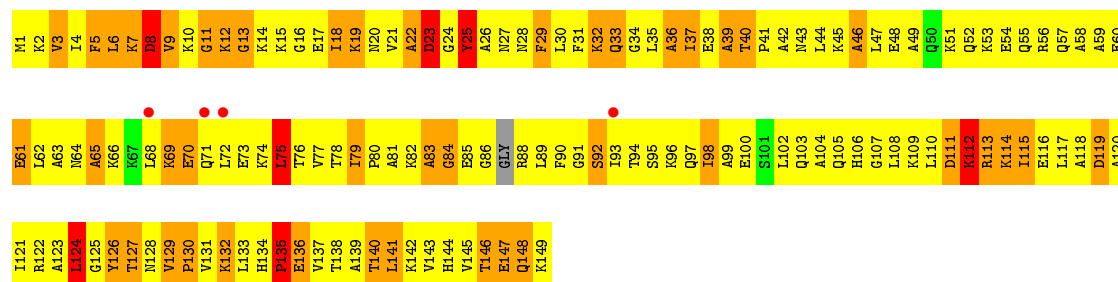


• Molecule 9: 50S ribosomal protein L7/L12

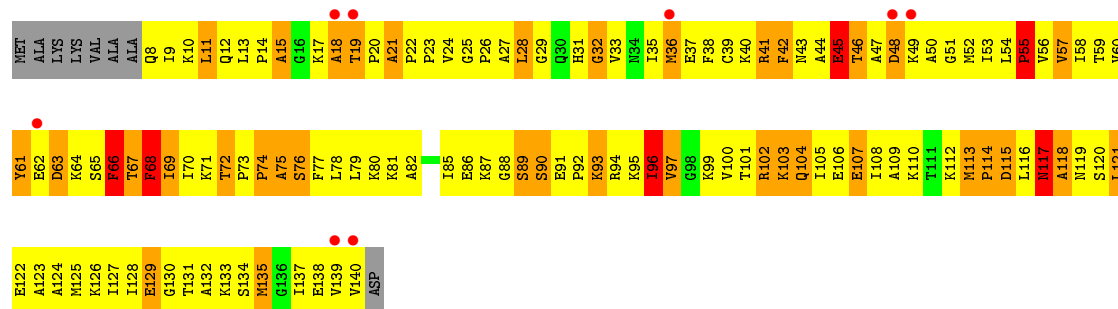




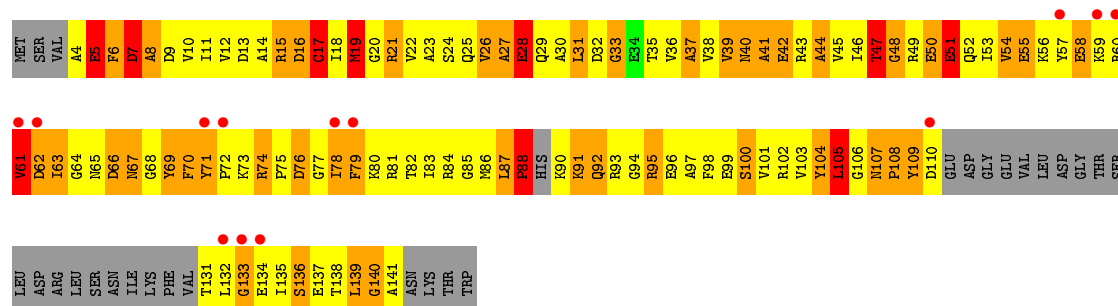
• Molecule 10: 50S ribosomal protein L9



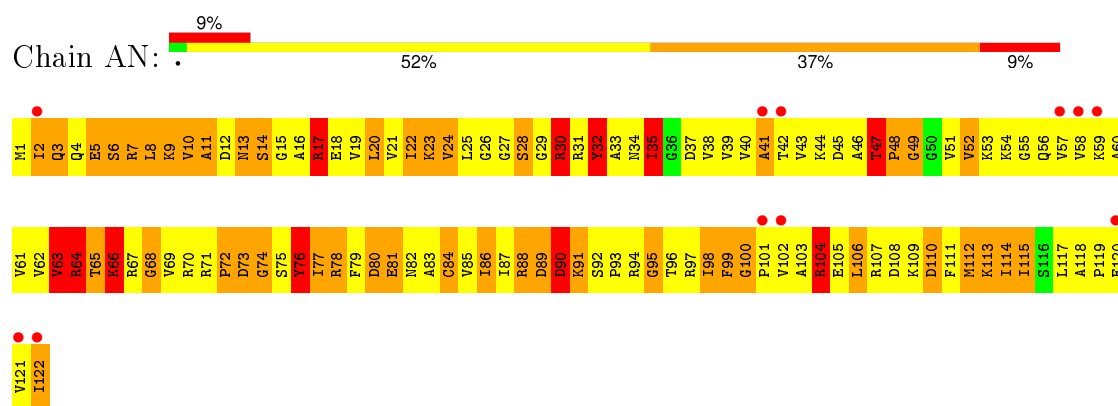
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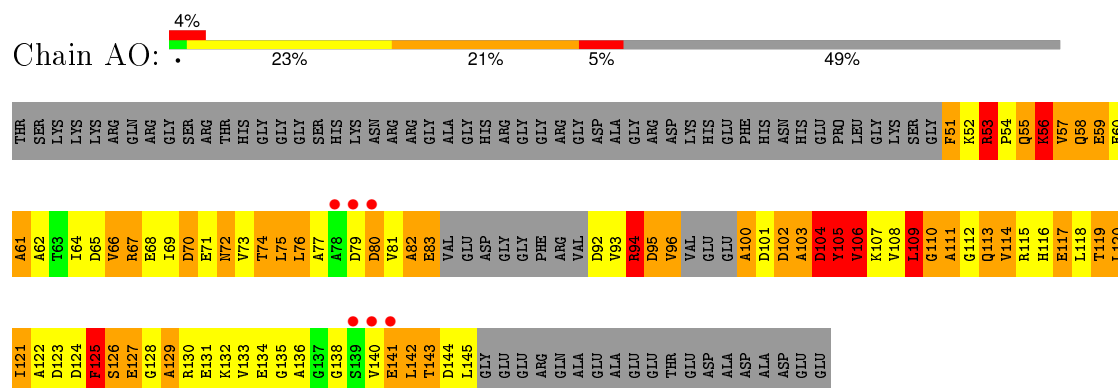
• Molecule 12: 50S ribosomal protein L13



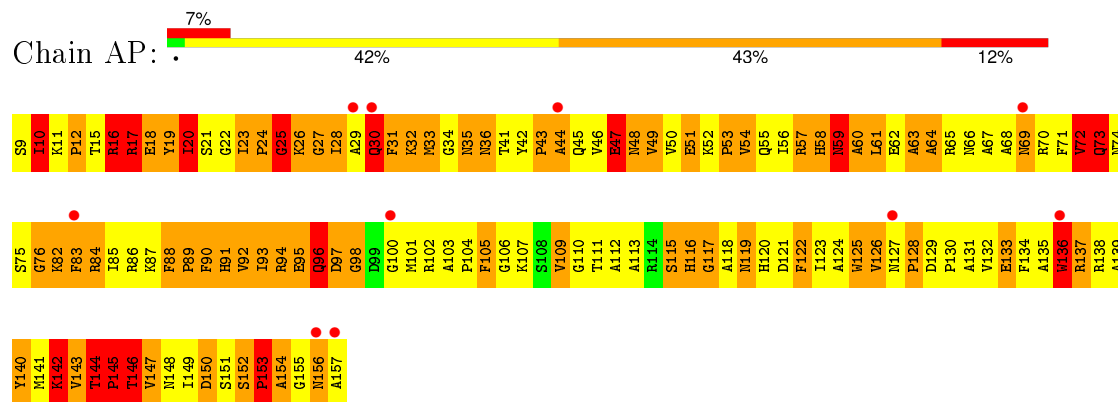
• Molecule 13: 50S ribosomal protein L14



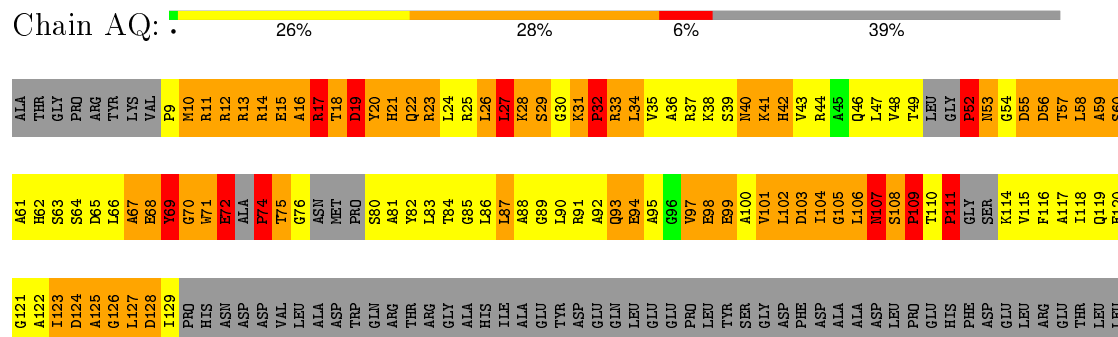
- Molecule 14: 50S ribosomal protein L15



- Molecule 15: 50S ribosomal protein L16

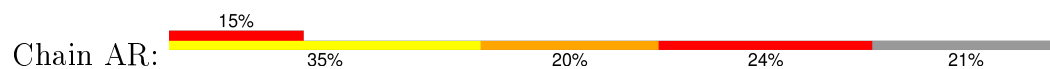


- Molecule 16: 50S ribosomal protein L18



ASP
GLY
ASP
ILE
GLU
LEU

• Molecule 17: 50S ribosomal protein L19



PRO ARG THR R4 E5 C6 D7 Y8 C9 G10 T11 D12 D13 E14 P15 G16 T17 T18 G18 T19 T20 F21 R22 R23 K24 D25 G26 A27 T28 T29 T30 H30 F31 G32 S33 S34 K35 I36 L36 R37 R38 N39 A40 D41 L42 GLY R44 E45 A46 R47 N48 L49 E50 E51 D52 D53 T54 A55 R56 GLY GLU ALA GLY

GLU
ALA
GLU
ASP
GLU
ALA

• Molecule 18: 50S ribosomal protein L22



MET E2 K3 K4 A5 I6 A7 R8 Y9 V10 R11 V12 I13 S13 A14 P15 Y16 K16 R17 V18 T19 R20 V21 D22 L23 R24 R25 G26 A27 S28 R29 L29 A30 R31 E32 A33 S34 N35 I36 L36 R37 R38 Y39 T39 N40 A41 R42 R43 G43 A44 A45 Y46 F47 V47 A48 K49 V50 L51 E52 S53 A54 A55 A56 N57 A58 V59 N60

N61 H62 D63 MET E66 D67 R68 Y69 V70 Y71 K72 K73 A74 Y75 V76 V77 E78 G79 P80 A81 R82 K83 L84 R85 V86 L86 R87 P88 A89 R90 G91 R92 A93 A94 I95 I96 R97 R98 T99 T100 T101 S101 H102 R103 I104 T104 V105 I106 L107 G108 E109 K110 HIS GLY LYS

• Molecule 19: 50S ribosomal protein L23



S1 R2 D3 V4 I5 K6 H7 R8 H9 V10 T11 E12 K13 K14 A15 M16 D17 M18 D19 F20 GLN R22 R23 L24 Q25 F26 A27 V28 D29 R30 R31 A32 S33 S34 G35 Y36 V37 Y38 A38 D39 A40 V41 E42 E43 Q44 Y45 D46 T47 V48 T49 V50 Q51 V52 N53 T54 Q55 N56 T57 P58 D59 G60

E61 G62 K63 A64 V65 V66 R67 L68 S69 D70 E71 D72 D73 A74 A75 E76 A77 A78 S79 ARG ILE VAL PHE

• Molecule 20: 50S ribosomal protein L24



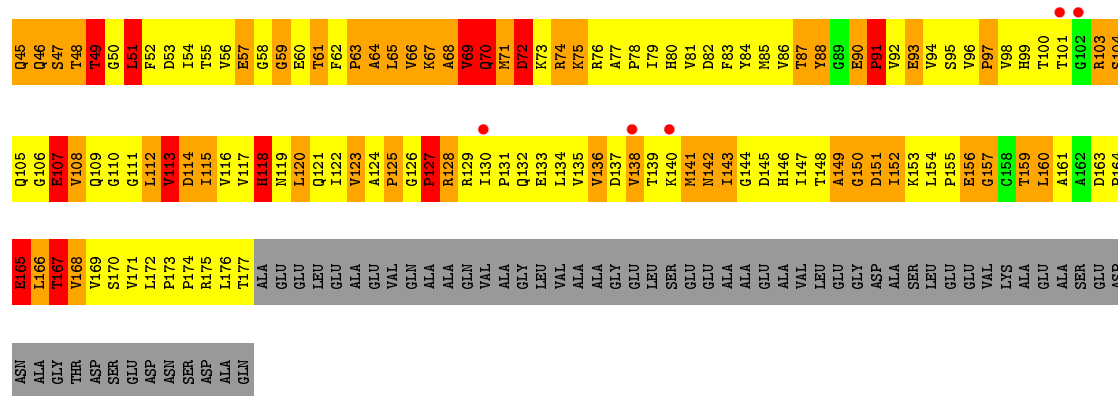
S1 R2 Q3 P4 D5 K6 Q7 R8 R9 S10 S11 Q11 R12 R13 R14 A15 P16 H17 H18 E19 R20 Q21 Q22 V23 R24 A25 A26 T27 L28 R29 D30 R31 R32 E33 E34 Y35 G36 GLN ARG ASN V40 V41 V42 V43 A44 A45 G46 D47 T48 V49 V50 L51 R52 G53 D54 F55 F56 G57 E58 D59 G60

E61 V62 I63 N64 V65 D66 L67 L68 D69 K69 A70 V71 I72 H73 V74 E75 D76 V77 T78 T79 E80 R81 T82 D83 G84 E85 E86 V87 P88 R89 R90 P90 L91 D92 R93 T94 S94 N95 Y96 R97 V98 T99 D100 L101 D102 L103 E104 D105 E106 K107 R108 E109 A110 R111 L112 E113 SER GLU ASP ASP SER

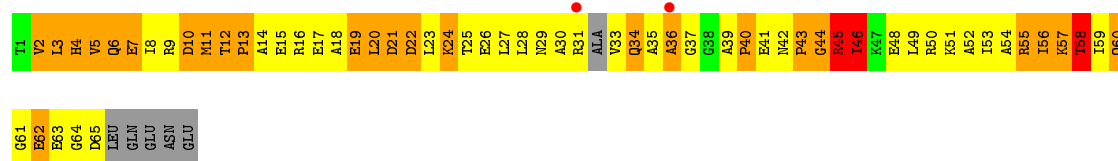
• Molecule 21: 50S general stress protein CTC (L25)



MET ALA THR THR GLN THR ALA LYS SER GLN ASP THR M1 E2 I3 T4 A5 K6 P7 R8 T9 F10 K11 Q12 K13 K14 D15 E16 S17 M18 I19 A20 A21 V22 A23 Y24 N25 R26 E27 R28 N29 V30 S31 F32 A33 I34 D35 R36 R37 A38 F39 D40 R41 A42 F43 R44



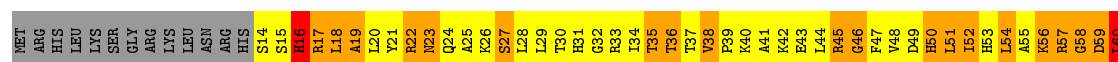
• Molecule 22: 50S ribosomal protein L29



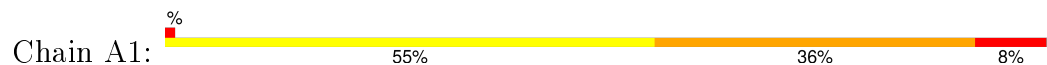
• Molecule 23: 50S ribosomal protein L30



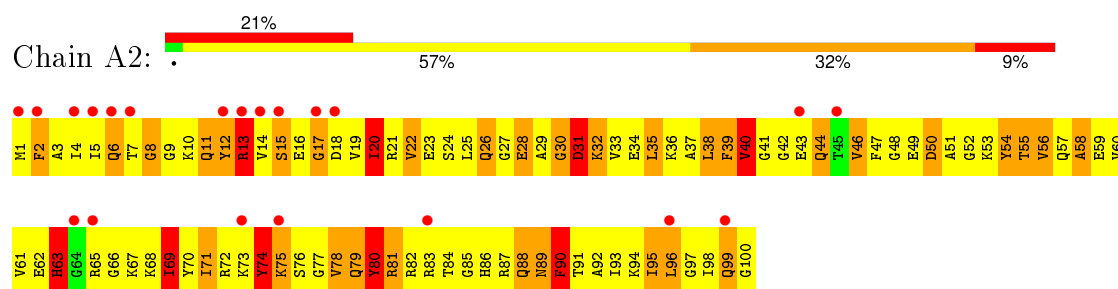
• Molecule 24: 50S ribosomal protein L17



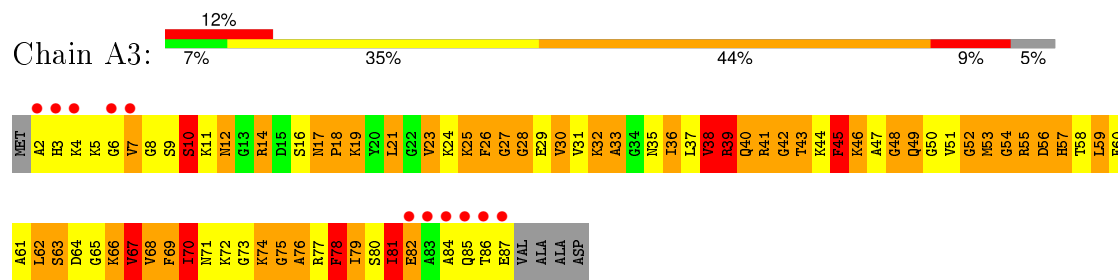
• Molecule 25: 50S ribosomal protein L20



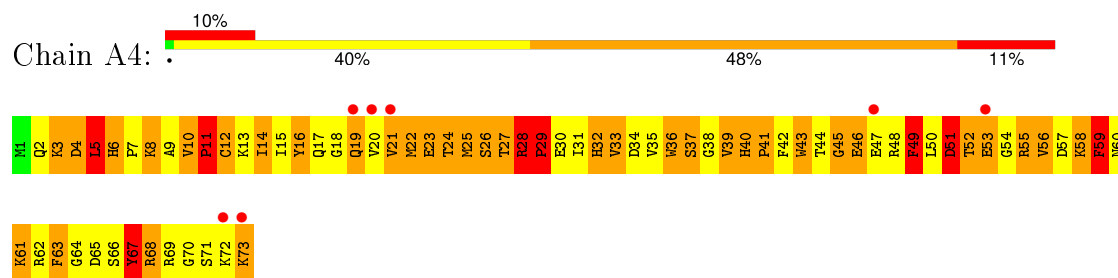
• Molecule 26: 50S ribosomal protein L21



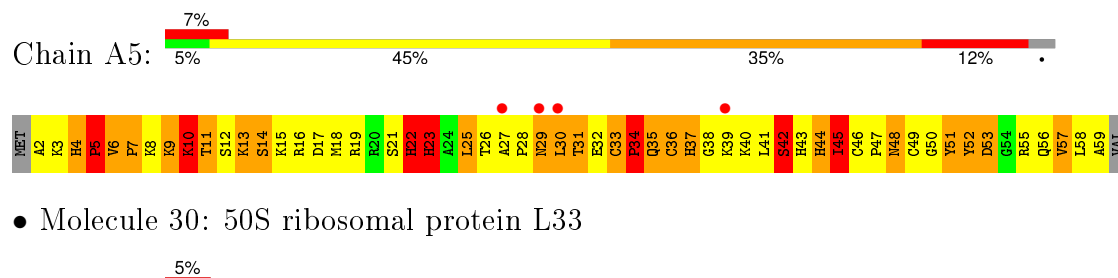
• Molecule 27: 50S ribosomal protein L27



• Molecule 28: 50S ribosomal protein L31



• Molecule 29: 50S ribosomal protein L32

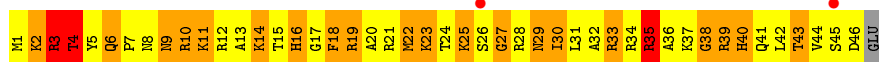


• Molecule 30: 50S ribosomal protein L33

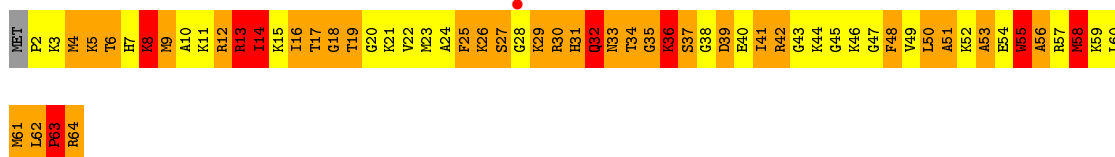


• Molecule 31: 50S ribosomal protein L34

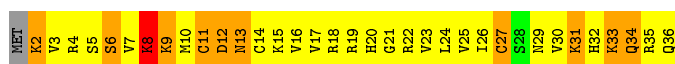




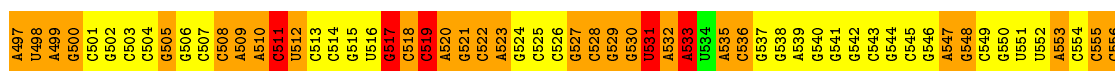
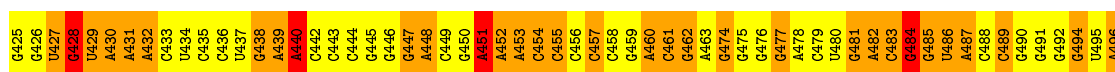
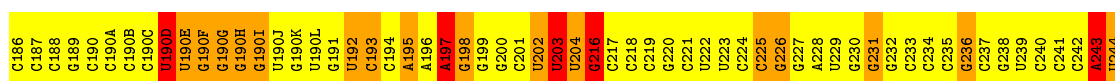
• Molecule 32: 50S ribosomal protein L35



• Molecule 33: 50S ribosomal protein L36



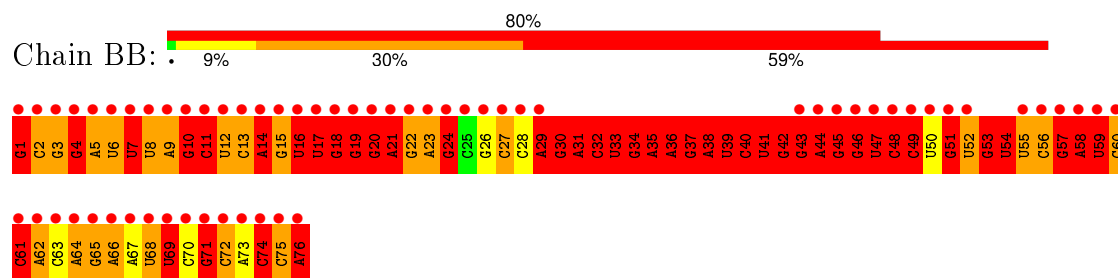
• Molecule 34: 16S rRNA



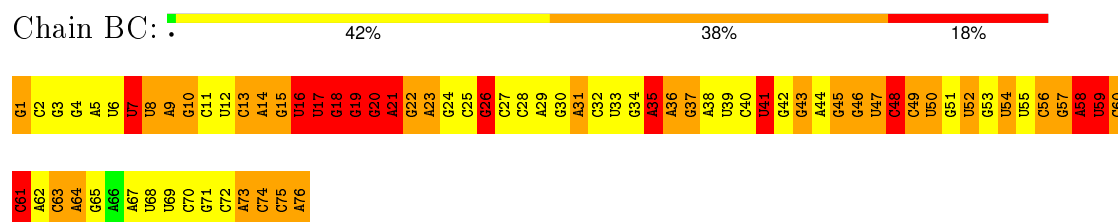
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C1465	C1400	U1341	U1281	G1221	U1160	C1100	U1040	C985	G925	A865	G799	C739	G679	U619	A559
C1466	C1401	C1342	C1282	G1222	C1161	A1101	A1041	A986	G926	C866	G800	U740	C680	C620	U560
C1467	C1402	G1343	C1283	C1223	C1162	C1102	G1042	C987	G927	G867	U801	G741	C681	A621	U561
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G1469	C1404	U1345	A1285	A1225	G1164	G1104	A1044	C989	G929	C869	G803	U743	C683	G623	A563
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U1471	U1406	G1347	A1287	A1227	G1166	G1106	C1046	U991	C931	U871	C805	C745	G685	G625	U565
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G1476	C1411	C1352	U1292	U1232	C1172	A1111	C1051	A996	C936	G876	C810	G750	G690	G630	G570
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G1503	G1438	C1378	C1319	C1259	U1199	G1138	U1078	G1022	G963	G903	G837	A777	C717	G657	G597
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G1442	G1442	C1382	G1323	C1263	C1204	G1142	G1082	G1026	C967	A907	U841	A781	G721	G661	C601
G1508	G1443	C1383	A1324	C1264	A1205	G1143	U1083	C1027	A968	A908	C948	A782	A722	G662	A602
C1509	A1446	C1384	C1325	G1265	U1206	G1144	G1084	C1028	A969	A909	C949	C783	U723	A663	U603
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U1521	U1461	A1396	G1337	C1277	C1217	G1156	C1096	G1036	U981	U921	G861	C795	C735	G675	C615
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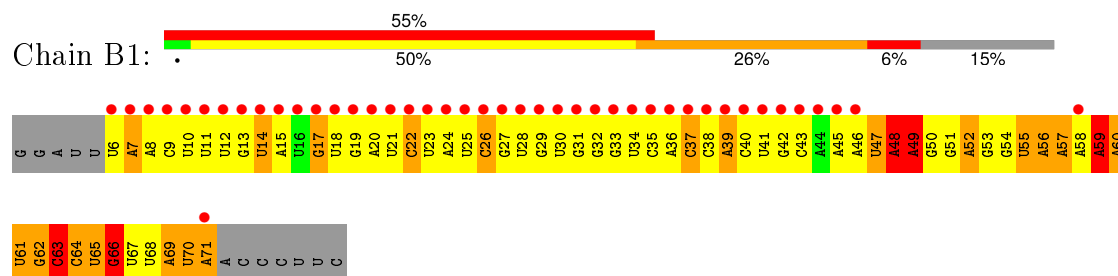
• Molecule 35: tRNA Phe (unmodified bases)



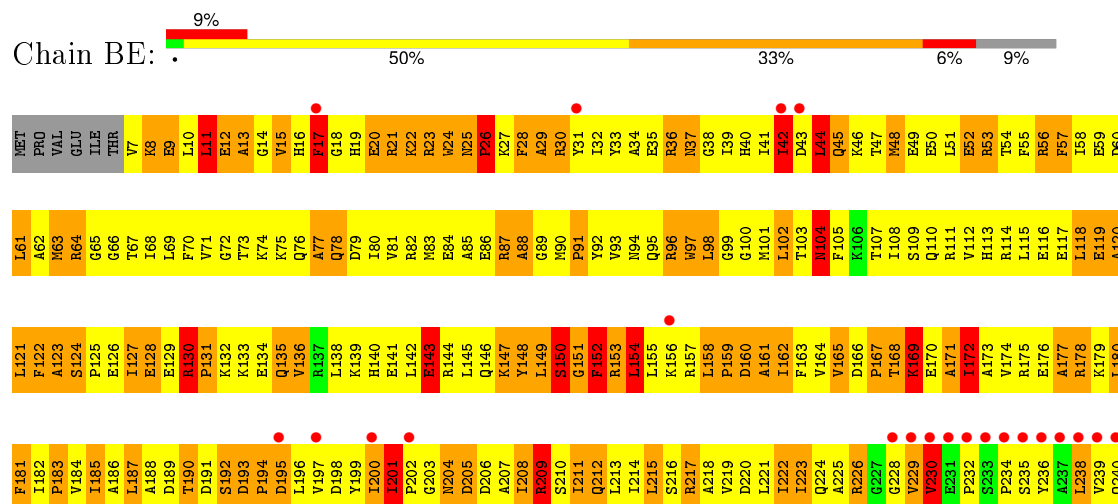
• Molecule 35: tRNA Phe (unmodified bases)



• Molecule 36: thrS mRNA operator

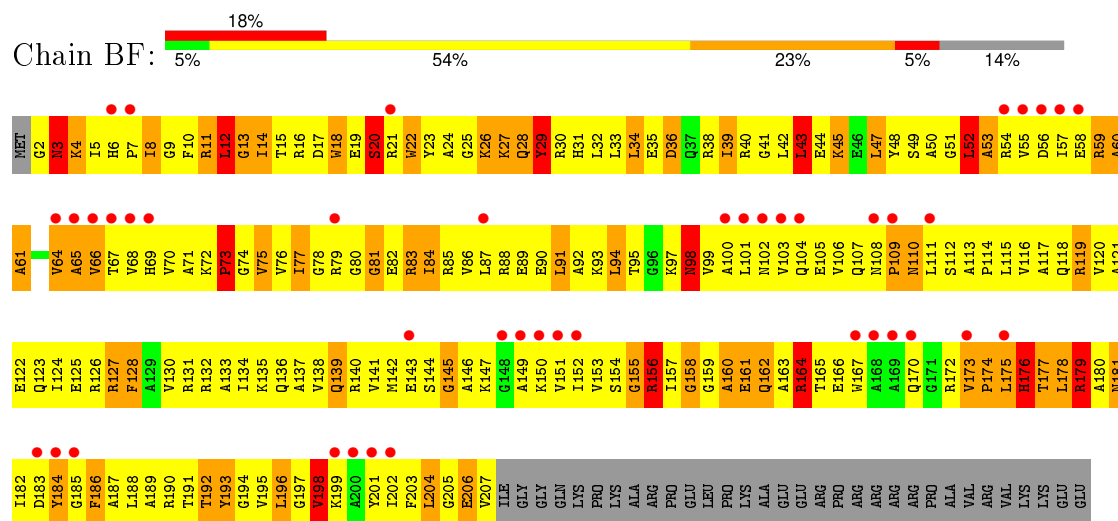


• Molecule 37: 30S ribosomal protein S2

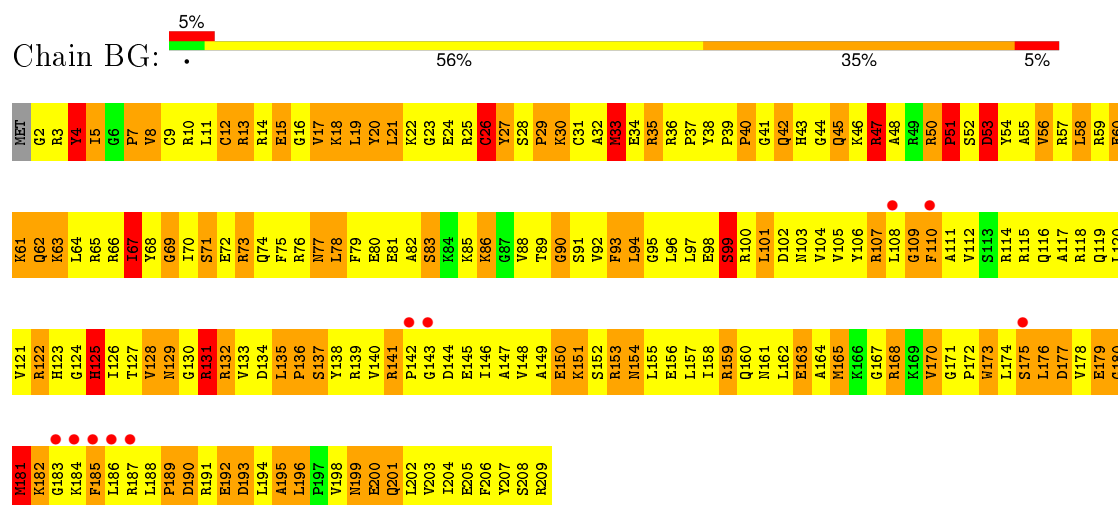


GLU
ALA
GLU
ALA
THR
GLU
THR
PRO
GLU
GLU
GLU
SER
GLU
VAL
GLU
ALA

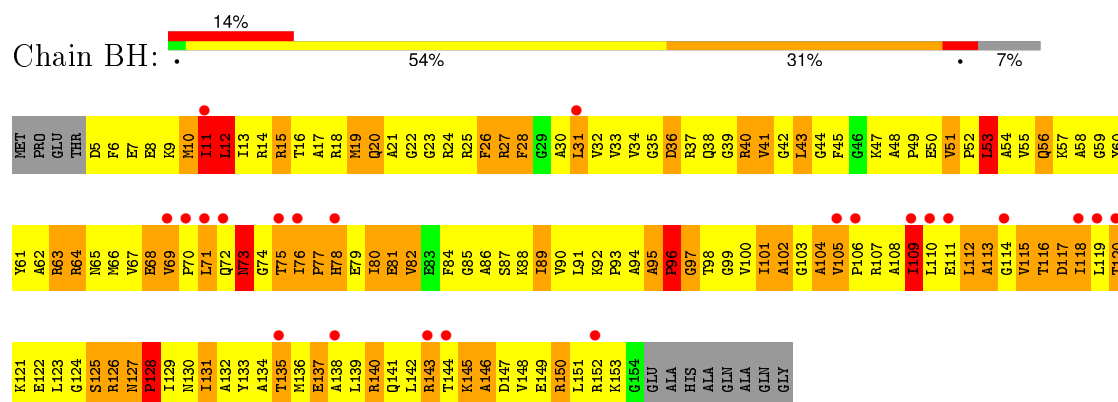
• Molecule 38: 30S ribosomal protein S3



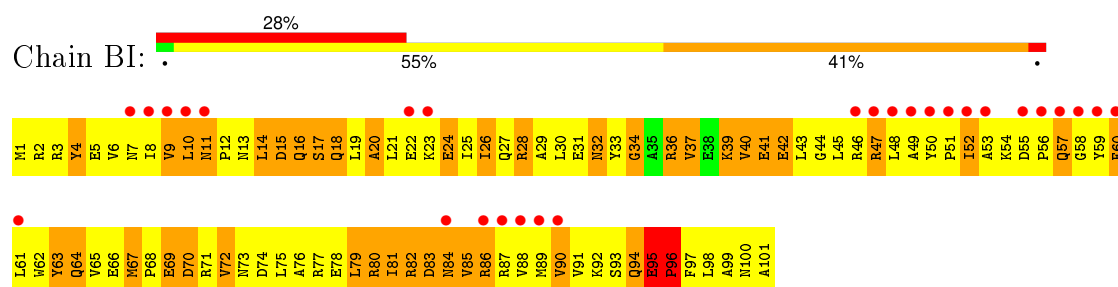
• Molecule 39: 30S ribosomal protein S4



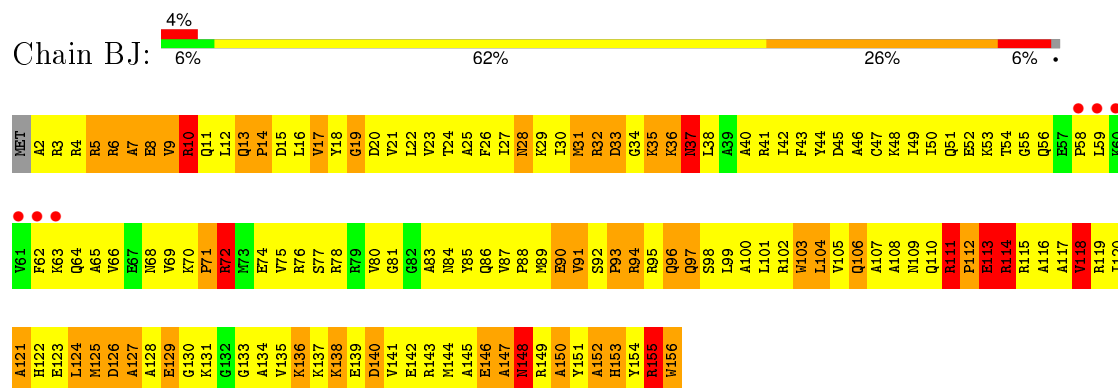
• Molecule 40: 30S ribosomal protein S5



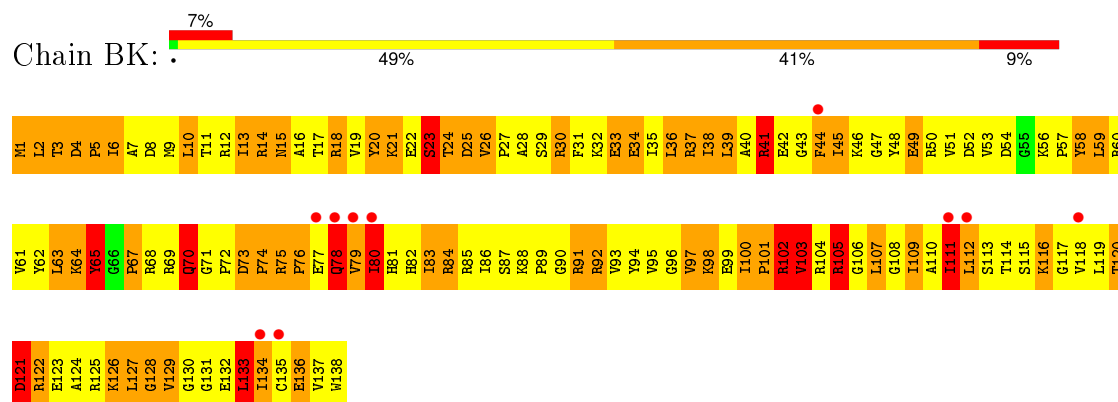
• Molecule 41: 30S ribosomal protein S6



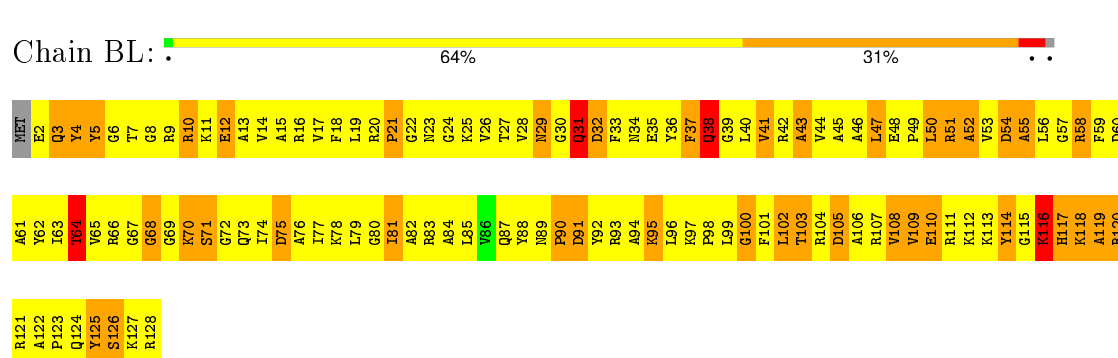
- Molecule 42: 30S ribosomal protein S7



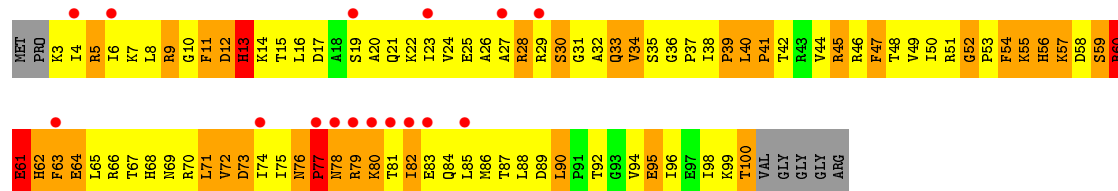
- Molecule 43: 30S ribosomal protein S8



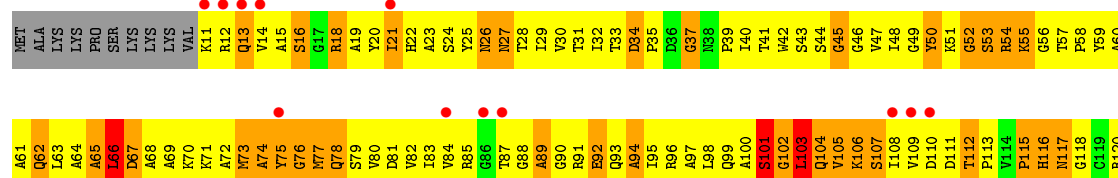
- Molecule 44: 30S ribosomal protein S9



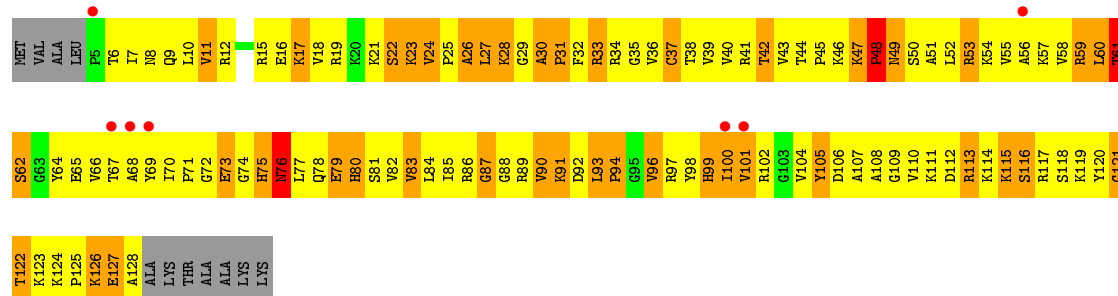
- Molecule 45: 30S ribosomal protein S10



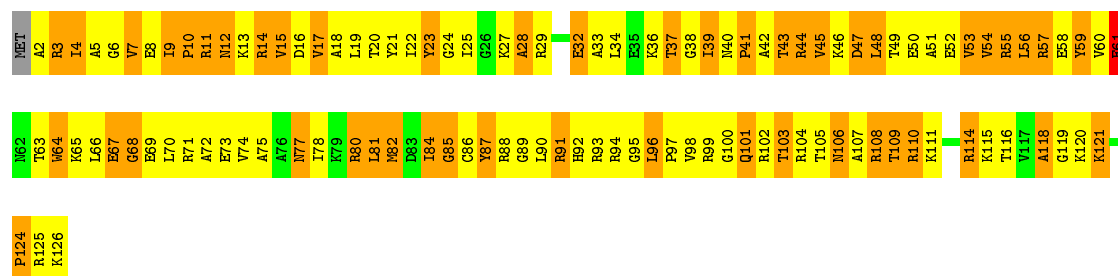
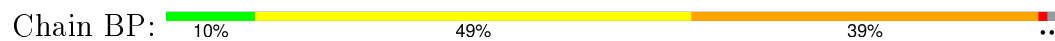
• Molecule 46: 30S ribosomal protein S11



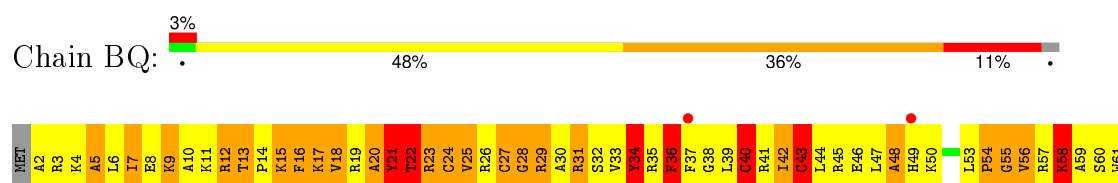
• Molecule 47: 30S ribosomal protein S12



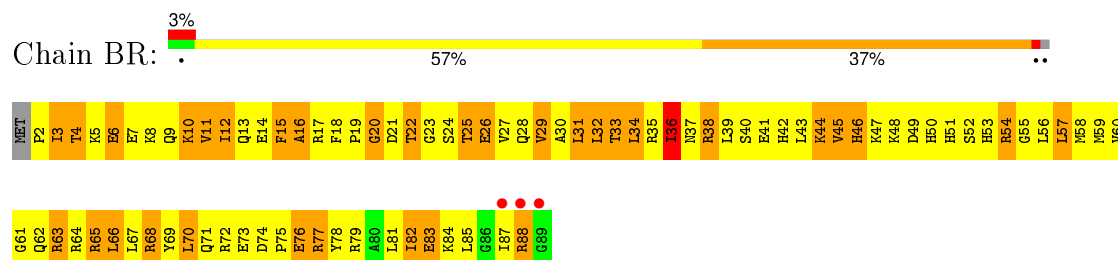
• Molecule 48: 30S ribosomal protein S13



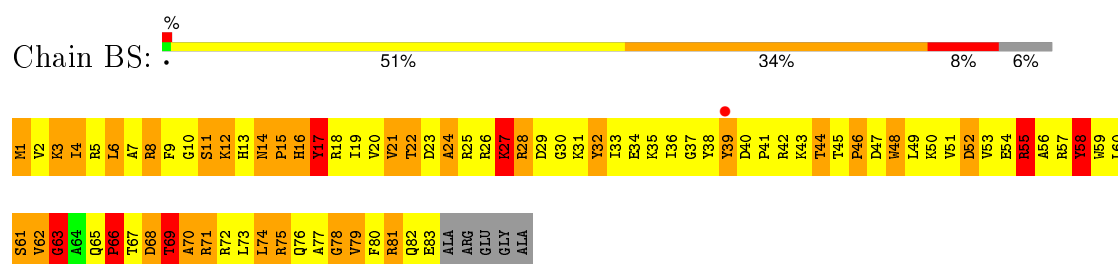
• Molecule 49: 30S ribosomal protein S14



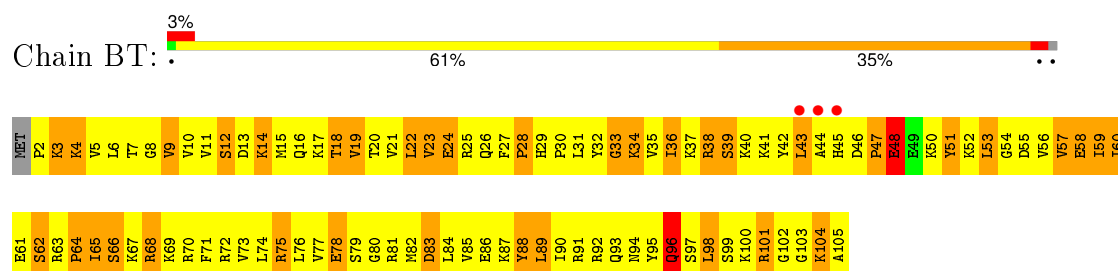
• Molecule 50: 30S ribosomal protein S15



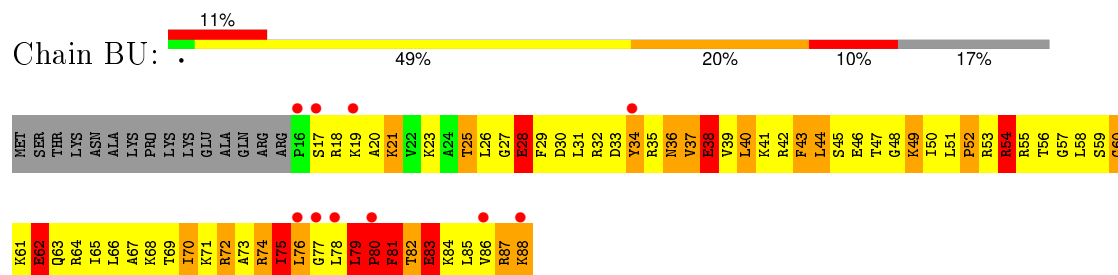
• Molecule 51: 30S ribosomal protein S16



• Molecule 52: 30S ribosomal protein S17

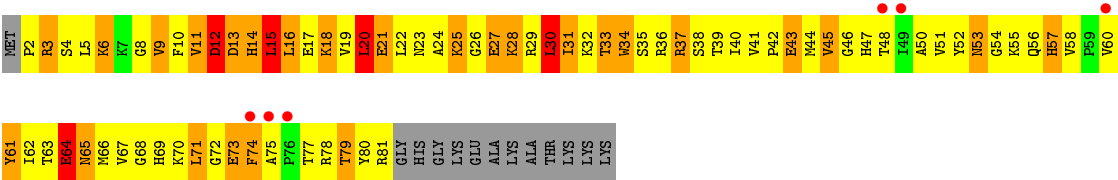


• Molecule 53: 30S ribosomal protein S18

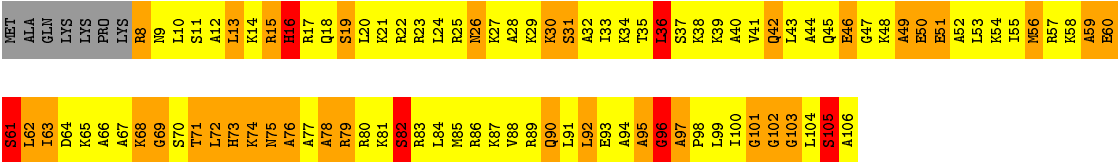
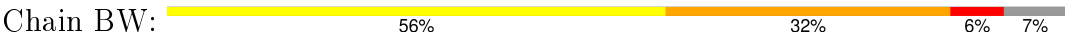


• Molecule 54: 30S ribosomal protein S19





● Molecule 55: 30S ribosomal protein S20



● Molecule 56: 30S ribosomal protein Thx



4 Data and refinement statistics

Property	Value	Source
Space group	I 4 2 2	Depositor
Cell constants a, b, c, α , β , γ	508.64Å 508.64Å 806.25Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	300.00 – 5.50 268.38 – 5.50	Depositor EDS
% Data completeness (in resolution range)	94.6 (300.00-5.50) 97.5 (268.38-5.50)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	0.10	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.17 (at 5.42Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.307 , 0.356 0.308 , 0.354	Depositor DCC
R_{free} test set	7724 reflections (5.06%)	DCC
Wilson B-factor (Å ²)	206.2	Xtriage
Anisotropy	0.054	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.11 , 178.8	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.52$, $\langle L^2 \rangle = 0.36$	Xtriage
Outliers	0 of 169564 reflections	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	148539	wwPDB-VP
Average B, all atoms (Å ²)	338.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.74% 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 ⓘ

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	AB	0.95	1/2954 (0.0%)	1.06	7/4606 (0.2%)
2	AA	1.16	181/69267 (0.3%)	1.22	549/108130 (0.5%)
3	AC	0.62	0/1715	0.94	2/2310 (0.1%)
4	AD	1.11	6/1329 (0.5%)	1.52	22/1787 (1.2%)
5	AE	1.04	3/1542 (0.2%)	1.41	21/2084 (1.0%)
6	AF	0.82	0/1446	1.26	14/1960 (0.7%)
7	AG	0.83	0/972	1.20	6/1307 (0.5%)
8	AH	0.76	0/1272	1.13	1/1721 (0.1%)
9	AI	0.48	0/950	0.72	0/1275
9	AJ	0.43	0/950	0.68	0/1275
10	AK	0.73	0/1157	1.17	8/1547 (0.5%)
11	AL	0.48	0/1015	0.91	4/1366 (0.3%)
12	AM	1.04	2/928 (0.2%)	1.23	2/1248 (0.2%)
13	AN	1.06	2/946 (0.2%)	1.43	14/1269 (1.1%)
14	AO	0.67	0/643	1.30	9/870 (1.0%)
15	AP	1.04	1/1109 (0.1%)	1.43	16/1499 (1.1%)
16	AQ	0.71	0/880	1.23	5/1189 (0.4%)
17	AR	1.37	4/413 (1.0%)	2.01	18/557 (3.2%)
18	AS	0.81	0/869	1.19	3/1166 (0.3%)
19	AT	0.76	0/609	1.05	0/823
20	AU	0.46	0/887	0.89	0/1195
21	AV	0.71	0/1385	1.10	7/1883 (0.4%)
22	AW	0.73	0/497	1.05	1/668 (0.1%)
23	AX	0.81	0/482	1.18	2/646 (0.3%)
24	A0	0.86	0/867	1.24	3/1162 (0.3%)
25	A1	1.03	0/994	1.33	6/1323 (0.5%)
26	A2	0.71	0/797	1.14	4/1061 (0.4%)
27	A3	0.72	0/649	1.14	3/860 (0.3%)
28	A4	0.97	1/620 (0.2%)	1.18	4/831 (0.5%)
29	A5	0.79	0/469	1.41	5/629 (0.8%)
30	A6	0.93	0/438	1.25	4/583 (0.7%)
31	A7	0.78	0/387	1.05	0/509
32	A8	0.98	2/503 (0.4%)	1.48	8/657 (1.2%)
33	A9	1.36	1/286 (0.3%)	1.44	4/375 (1.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
34	BA	1.03	30/36438 (0.1%)	1.17	167/56869 (0.3%)
35	BB	2.33	76/1818 (4.2%)	2.48	157/2831 (5.5%)
35	BC	1.09	5/1818 (0.3%)	1.11	7/2831 (0.2%)
36	B1	1.14	7/1571 (0.4%)	0.96	7/2445 (0.3%)
37	BE	0.75	0/1935	1.06	3/2609 (0.1%)
38	BF	0.62	0/1636	0.99	5/2205 (0.2%)
39	BG	0.86	2/1733 (0.1%)	1.16	4/2318 (0.2%)
40	BH	0.85	0/1162	1.12	1/1564 (0.1%)
41	BI	0.78	0/856	1.06	1/1154 (0.1%)
42	BJ	0.70	1/1276 (0.1%)	1.00	6/1709 (0.4%)
43	BK	0.81	0/1136	1.18	5/1527 (0.3%)
44	BL	0.52	0/1029	0.86	1/1378 (0.1%)
45	BM	0.58	0/807	0.94	2/1085 (0.2%)
46	BN	0.75	0/900	1.04	0/1213
47	BO	0.78	0/986	1.22	3/1320 (0.2%)
48	BP	0.59	0/1008	0.98	0/1347
49	BQ	0.83	1/501 (0.2%)	1.09	2/664 (0.3%)
50	BR	0.74	0/745	1.05	2/992 (0.2%)
51	BS	0.81	0/716	1.10	3/963 (0.3%)
52	BT	0.82	0/870	1.11	2/1159 (0.2%)
53	BU	0.72	0/603	1.18	2/799 (0.3%)
54	BV	0.59	0/661	0.98	1/890 (0.1%)
55	BW	0.84	0/764	1.12	2/1006 (0.2%)
56	BX	0.45	0/212	0.81	0/277
All	All	1.05	326/161408 (0.2%)	1.21	1135/241526 (0.5%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	AB	0	14
2	AA	0	527
4	AD	0	1
5	AE	0	1
6	AF	0	1
7	AG	0	2
12	AM	0	2
13	AN	0	2
14	AO	0	2
16	AQ	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
23	AX	0	1
25	A1	0	3
26	A2	0	1
28	A4	0	1
30	A6	0	1
34	BA	0	220
35	BB	0	35
35	BC	0	12
36	B1	0	4
38	BF	0	1
39	BG	0	1
41	BI	0	1
43	BK	0	1
48	BP	0	1
51	BS	0	2
All	All	0	838

All (326) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	AA	142	G	C5-C6	27.73	1.70	1.42
36	B1	48	A	C5-C6	27.45	1.65	1.41
35	BB	37	G	C2-N2	18.34	1.52	1.34
34	BA	1541	U	C4-C5	17.23	1.59	1.43
2	AA	142	G	C2-N3	16.69	1.46	1.32
35	BB	36	A	C2'-C1'	16.25	1.71	1.53
34	BA	1541	U	C5-C6	16.13	1.48	1.34
35	BB	34	G	N9-C4	-15.91	1.25	1.38
34	BA	1541	U	C2-N3	15.64	1.48	1.37
35	BB	34	G	C5-C4	15.44	1.49	1.38
36	B1	48	A	C2-N3	15.28	1.47	1.33
35	BB	40	C	N1-C2	15.22	1.55	1.40
33	A9	11	CYS	CB-SG	14.32	2.06	1.82
36	B1	48	A	N1-C2	14.23	1.47	1.34
35	BB	37	G	C6-O6	-13.99	1.11	1.24
2	AA	142	G	C2-N2	13.75	1.48	1.34
2	AA	137	C	C5-C6	13.62	1.45	1.34
2	AA	137	C	C4-N4	13.09	1.45	1.33
36	B1	48	A	C6-N1	13.01	1.44	1.35
34	BA	1064	G	C2-N3	12.14	1.42	1.32
35	BB	36	A	O3'-P	-11.71	1.47	1.61
2	AA	142	G	C6-N1	11.46	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	AA	983	A	C3'-O3'	11.45	1.58	1.42
35	BB	24	G	C2-N2	-11.26	1.23	1.34
2	AA	1359	A	C6-N1	-11.19	1.27	1.35
35	BB	37	G	C2-N3	-10.96	1.24	1.32
2	AA	1359	A	C6-N6	-10.67	1.25	1.33
35	BB	71	G	N3-C4	10.13	1.42	1.35
2	AA	974(A)	C	C2-N3	10.07	1.43	1.35
2	AA	1823	G	C6-O6	9.95	1.33	1.24
35	BB	71	G	N7-C5	9.79	1.45	1.39
35	BB	39	U	N1-C2	9.58	1.47	1.38
2	AA	1796	U	C4-O4	9.46	1.31	1.23
35	BB	18	G	C5-C6	-9.39	1.32	1.42
35	BB	59	U	N1-C2	-9.28	1.30	1.38
2	AA	775	G	N9-C4	9.18	1.45	1.38
36	B1	48	A	C6-N6	9.11	1.41	1.33
35	BB	34	G	C2-N2	9.09	1.43	1.34
2	AA	687	C	N1-C2	9.09	1.49	1.40
34	BA	1064	G	N1-C2	9.07	1.45	1.37
4	AD	82	TYR	CB-CG	8.94	1.65	1.51
2	AA	142	G	N7-C5	8.92	1.44	1.39
35	BB	19	G	C5-C6	8.92	1.51	1.42
2	AA	775	G	C2-N3	8.91	1.39	1.32
2	AA	1785	A	C6-N6	-8.85	1.26	1.33
35	BB	34	G	C6-O6	-8.83	1.16	1.24
2	AA	992	C	N1-C2	8.53	1.48	1.40
2	AA	791	C	O3'-P	-8.51	1.50	1.61
35	BB	45	G	N9-C4	8.48	1.44	1.38
35	BB	39	U	C5'-C4'	-8.44	1.41	1.51
32	A8	55	TRP	CB-CG	8.35	1.65	1.50
2	AA	1667	G	N9-C4	8.29	1.44	1.38
34	BA	1494	G	C6-O6	8.26	1.31	1.24
2	AA	1625	C	N1-C2	8.25	1.48	1.40
2	AA	1668	A	C3'-O3'	8.22	1.53	1.42
35	BB	57	G	N9-C4	-8.22	1.31	1.38
2	AA	1626	G	C5'-C4'	8.20	1.61	1.51
2	AA	983	A	O3'-P	8.01	1.70	1.61
2	AA	1083	U	O3'-P	8.00	1.70	1.61
2	AA	137	C	N3-C4	-7.96	1.28	1.33
2	AA	974(A)	C	C5-C6	7.87	1.40	1.34
2	AA	1378	A	C5-C6	-7.83	1.34	1.41
34	BA	1064	G	C5-C6	-7.77	1.34	1.42
35	BB	35	A	C2'-C1'	7.71	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	AA	1303	G	C2-N3	7.68	1.38	1.32
35	BB	34	G	N3-C4	-7.64	1.30	1.35
1	AB	-1	A	OP3-P	-7.61	1.52	1.61
34	BA	579	G	O3'-P	7.61	1.70	1.61
2	AA	2559	C	N1-C2	-7.57	1.32	1.40
2	AA	974(A)	C	C1'-N1	7.56	1.60	1.48
35	BB	5	A	C5'-C4'	7.56	1.60	1.51
35	BB	37	G	C5-C6	-7.52	1.34	1.42
35	BB	37	G	C8-N7	7.52	1.35	1.30
2	AA	1	G	OP3-P	-7.51	1.52	1.61
39	BG	12	CYS	CA-CB	7.50	1.70	1.53
2	AA	1372	U	N3-C4	7.49	1.45	1.38
2	AA	2195	C	C3'-O3'	7.42	1.52	1.42
2	AA	142	G	C6-O6	-7.38	1.17	1.24
28	A4	43	TRP	CB-CG	7.36	1.63	1.50
2	AA	1083	U	C3'-O3'	7.28	1.52	1.42
2	AA	2497	A	C5-C6	-7.25	1.34	1.41
35	BB	16	U	N1-C2	7.22	1.45	1.38
2	AA	2295	C	N1-C2	7.16	1.47	1.40
2	AA	1303	G	N9-C4	7.14	1.43	1.38
2	AA	990	A	N9-C4	7.14	1.42	1.37
2	AA	295	G	C6-O6	7.11	1.30	1.24
2	AA	974(A)	C	O3'-P	7.06	1.69	1.61
42	BJ	156	TRP	NE1-CE2	-7.06	1.28	1.37
35	BB	1	G	OP3-P	-7.06	1.52	1.61
2	AA	984	A	C5'-C4'	7.04	1.59	1.51
2	AA	1668	A	O3'-P	7.04	1.69	1.61
35	BB	18	G	N9-C4	-7.03	1.32	1.38
35	BB	40	C	C2-O2	6.94	1.30	1.24
35	BB	38	A	N9-C4	6.93	1.42	1.37
34	BA	1064	G	C2-N2	6.92	1.41	1.34
2	AA	1796	U	C5-C6	6.91	1.40	1.34
2	AA	983	A	C3'-C2'	6.91	1.60	1.52
2	AA	688	U	C4-O4	-6.87	1.18	1.23
2	AA	1516	U	N1-C2	-6.83	1.32	1.38
34	BA	1192	C	N1-C2	6.82	1.47	1.40
2	AA	1938	A	N9-C4	-6.79	1.33	1.37
2	AA	2698	U	C2-O2	6.76	1.28	1.22
2	AA	1241	A	C5-C6	-6.72	1.35	1.41
35	BB	34	G	C3'-C2'	6.66	1.60	1.52
2	AA	343	C	C2-O2	6.65	1.30	1.24
4	AD	205	VAL	CA-CB	6.63	1.68	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	BA	579	G	C3'-O3'	6.63	1.51	1.42
2	AA	950	G	N9-C4	-6.61	1.32	1.38
35	BB	18	G	C2-N3	-6.59	1.27	1.32
2	AA	2595	G	N9-C4	6.50	1.43	1.38
2	AA	969	U	C3'-O3'	6.49	1.51	1.42
2	AA	2665	A	C6-N6	-6.47	1.28	1.33
2	AA	739	G	N9-C4	6.47	1.43	1.38
4	AD	82	TYR	CD1-CE1	6.46	1.49	1.39
35	BB	37	G	C6-N1	6.46	1.44	1.39
2	AA	2494	G	C5'-C4'	6.45	1.59	1.51
2	AA	775	G	C3'-O3'	6.44	1.51	1.42
2	AA	137	C	C1'-N1	6.44	1.58	1.48
2	AA	1763	G	C6-O6	6.43	1.29	1.24
2	AA	2061	G	N9-C4	6.42	1.43	1.38
2	AA	295	G	C2-N2	6.40	1.41	1.34
2	AA	1170	G	N9-C4	-6.39	1.32	1.38
2	AA	770	G	C5-C6	-6.37	1.35	1.42
35	BB	1	G	C5-C6	-6.37	1.35	1.42
2	AA	2856	C	N1-C2	6.35	1.46	1.40
36	B1	48	A	N7-C5	6.33	1.43	1.39
5	AE	220	GLN	CB-CG	6.32	1.69	1.52
17	AR	12	ASP	CB-CG	6.30	1.65	1.51
36	B1	48	A	N9-C4	6.29	1.41	1.37
2	AA	974(A)	C	C3'-O3'	6.28	1.50	1.42
2	AA	1796	U	C2-N3	6.26	1.42	1.37
2	AA	2822	G	N9-C4	-6.24	1.32	1.38
2	AA	1699	G	C6-O6	-6.21	1.18	1.24
2	AA	1786	A	C5'-C4'	-6.21	1.43	1.51
35	BB	71	G	C8-N7	-6.19	1.27	1.30
35	BB	41	U	P-OP2	-6.17	1.38	1.49
34	BA	361	G	N9-C4	6.15	1.42	1.38
35	BB	41	U	N1-C2	-6.15	1.33	1.38
35	BB	48	C	N1-C2	6.15	1.46	1.40
17	AR	37	GLU	CB-CG	6.12	1.63	1.52
2	AA	1997	G	C5'-C4'	6.11	1.58	1.51
4	AD	214	MET	CG-SD	6.10	1.97	1.81
2	AA	561	G	C5-C6	-6.08	1.36	1.42
2	AA	1779	U	N3-C4	6.04	1.43	1.38
35	BB	19	G	C5'-C4'	6.04	1.58	1.51
13	AN	84	CYS	CB-SG	-6.03	1.72	1.82
2	AA	2041	U	N1-C2	-6.00	1.33	1.38
35	BB	56	C	N3-C4	6.00	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	AA	1785	A	C5-C6	-6.00	1.35	1.41
17	AR	11	THR	C-O	5.98	1.34	1.23
34	BA	823	G	N9-C4	-5.98	1.33	1.38
35	BB	34	G	C5'-C4'	5.97	1.58	1.51
2	AA	1492	G	N9-C4	5.97	1.42	1.38
34	BA	811	C	C2-N3	5.96	1.40	1.35
2	AA	1786	A	N9-C4	-5.96	1.34	1.37
35	BB	34	G	O3'-P	-5.96	1.54	1.61
2	AA	1303	G	C5-C6	5.95	1.48	1.42
2	AA	137	C	N1-C6	-5.94	1.33	1.37
2	AA	974(A)	C	C3'-C2'	5.93	1.59	1.52
2	AA	344	G	C6-N1	5.93	1.43	1.39
4	AD	83	ASP	C-O	5.93	1.34	1.23
2	AA	343	C	C4-N4	5.91	1.39	1.33
2	AA	984	A	C4'-C3'	5.90	1.59	1.53
35	BB	58	A	N9-C4	5.87	1.41	1.37
34	BA	354	G	N9-C4	5.87	1.42	1.38
2	AA	1489	U	C2-O2	5.85	1.27	1.22
35	BB	59	U	C2-O2	-5.85	1.17	1.22
4	AD	234	HIS	CA-C	5.83	1.68	1.52
2	AA	739	G	C2-N3	5.83	1.37	1.32
35	BB	37	G	N3-C4	-5.83	1.31	1.35
34	BA	292	G	C5-C6	-5.82	1.36	1.42
35	BB	54	U	C5-C6	-5.82	1.28	1.34
34	BA	47	C	N1-C2	5.80	1.46	1.40
2	AA	946	G	C2-N3	5.80	1.37	1.32
12	AM	7	ASP	CB-CG	5.80	1.64	1.51
35	BB	57	G	C2-N3	-5.80	1.28	1.32
2	AA	2581	G	C5-C6	-5.80	1.36	1.42
2	AA	2486	G	C6-O6	5.79	1.29	1.24
2	AA	1665	A	C6-N6	-5.77	1.29	1.33
2	AA	2508	G	N9-C4	-5.75	1.33	1.38
13	AN	32	TYR	CD1-CE1	-5.72	1.30	1.39
2	AA	1656	C	C5'-C4'	-5.71	1.44	1.51
2	AA	2615	U	C4-O4	-5.71	1.19	1.23
2	AA	1161	C	N1-C2	5.71	1.45	1.40
2	AA	2196	C	C5'-C4'	5.69	1.58	1.51
2	AA	2894	G	C5-C6	5.69	1.48	1.42
2	AA	1823	G	N1-C2	5.68	1.42	1.37
2	AA	2695	C	N1-C2	-5.67	1.34	1.40
35	BB	71	G	C5-C6	-5.67	1.36	1.42
35	BC	1	G	OP3-P	-5.67	1.54	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	AA	1026	U	N1-C2	5.66	1.43	1.38
2	AA	2460	U	N1-C2	-5.66	1.33	1.38
2	AA	1796	U	N3-C4	5.66	1.43	1.38
35	BB	33	U	N1-C6	5.65	1.43	1.38
35	BB	40	C	C2'-C1'	5.65	1.59	1.53
2	AA	1625	C	C3'-O3'	5.65	1.50	1.42
2	AA	329	G	N9-C4	-5.64	1.33	1.38
2	AA	775	G	C2-N2	5.64	1.40	1.34
2	AA	745	G	N9-C4	-5.64	1.33	1.38
2	AA	2580	U	C5'-C4'	-5.62	1.44	1.51
2	AA	871	U	C2-O2	-5.62	1.17	1.22
34	BA	633	G	N9-C4	-5.60	1.33	1.38
34	BA	167	G	N9-C4	-5.60	1.33	1.38
35	BB	34	G	C6-N1	5.60	1.43	1.39
35	BC	14	A	C5-C6	-5.60	1.36	1.41
35	BB	34	G	N1-C2	5.59	1.42	1.37
35	BB	4	G	C5'-C4'	5.58	1.58	1.51
35	BC	20	G	N9-C4	5.58	1.42	1.38
2	AA	245	G	N9-C4	-5.58	1.33	1.38
2	AA	1448	G	N9-C4	5.57	1.42	1.38
2	AA	1809	A	N9-C4	5.57	1.41	1.37
2	AA	1220	A	C3'-O3'	5.57	1.50	1.42
2	AA	969	U	O3'-P	5.54	1.67	1.61
35	BB	55	U	C2-N3	5.53	1.41	1.37
5	AE	62	ARG	CG-CD	5.51	1.65	1.51
12	AM	58	GLU	CB-CG	-5.51	1.41	1.52
34	BA	1064	G	C5-C4	-5.51	1.34	1.38
34	BA	811	C	C5-C6	5.50	1.38	1.34
2	AA	1938	A	C5-C6	-5.50	1.36	1.41
2	AA	1983	C	C5'-C4'	-5.50	1.44	1.51
17	AR	12	ASP	CA-C	5.50	1.67	1.52
2	AA	2499	C	N1-C2	5.50	1.45	1.40
2	AA	1626	G	C2-N2	-5.48	1.29	1.34
35	BB	24	G	C2-N3	-5.48	1.28	1.32
32	A8	9	MET	CG-SD	5.48	1.95	1.81
35	BB	52	U	O5'-C5'	-5.47	1.34	1.42
2	AA	2368	C	N1-C2	5.46	1.45	1.40
5	AE	220	GLN	CG-CD	5.46	1.63	1.51
35	BB	42	G	N9-C4	5.45	1.42	1.38
2	AA	2828	C	N1-C2	-5.45	1.34	1.40
2	AA	360	G	C5-C6	5.44	1.47	1.42
2	AA	1379	A	C5-C6	5.43	1.46	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	AA	1950	G	C5-C6	-5.42	1.36	1.42
2	AA	2667	C	N1-C2	-5.42	1.34	1.40
2	AA	984	A	O3'-P	5.41	1.67	1.61
2	AA	142	G	C5-C4	-5.40	1.34	1.38
34	BA	1064	G	C6-N1	5.39	1.43	1.39
35	BB	62	A	C5'-C4'	-5.39	1.44	1.51
2	AA	774	A	C6-N1	5.39	1.39	1.35
34	BA	1541	U	C4'-C3'	-5.37	1.47	1.52
34	BA	519	C	N1-C2	5.37	1.45	1.40
2	AA	1337	G	C2-N2	5.37	1.40	1.34
2	AA	973	A	C3'-O3'	5.36	1.49	1.42
35	BB	52	U	N1-C2	5.36	1.43	1.38
2	AA	2492	U	C2-O2	5.35	1.27	1.22
2	AA	142	G	N9-C8	-5.34	1.34	1.37
2	AA	2640	G	N9-C4	5.34	1.42	1.38
34	BA	58	C	C5-C6	-5.33	1.30	1.34
2	AA	137	C	C2'-O2'	5.33	1.48	1.41
34	BA	727	G	C5-C6	-5.32	1.37	1.42
35	BB	5	A	C6-N6	-5.32	1.29	1.33
2	AA	2720	U	N1-C2	-5.31	1.33	1.38
2	AA	1186	G	N9-C4	-5.30	1.33	1.38
2	AA	1528	A	C5'-C4'	5.30	1.57	1.51
35	BB	56	C	C5'-C4'	5.30	1.57	1.51
35	BB	52	U	C5'-C4'	-5.29	1.45	1.51
2	AA	1989	G	C5-C6	-5.28	1.37	1.42
2	AA	2423	U	N1-C2	-5.27	1.33	1.38
2	AA	142	G	O4'-C1'	5.25	1.48	1.41
35	BB	1	G	P-O5'	5.25	1.65	1.59
35	BB	39	U	C5-C6	5.25	1.38	1.34
35	BB	56	C	O3'-P	-5.24	1.54	1.61
2	AA	729	G	C5-C6	-5.24	1.37	1.42
2	AA	1703	G	C5-C6	5.23	1.47	1.42
2	AA	776	G	C3'-O3'	5.23	1.49	1.42
49	BQ	24	CYS	CB-SG	-5.22	1.73	1.81
35	BB	19	G	O5'-C5'	5.21	1.52	1.44
35	BB	20	G	C5-C6	5.20	1.47	1.42
2	AA	688	U	N1-C2	5.20	1.43	1.38
2	AA	777	A	N9-C4	5.19	1.41	1.37
39	BG	26	CYS	CB-SG	5.19	1.91	1.82
2	AA	984	A	C5-C6	5.19	1.45	1.41
35	BB	40	C	C2'-O2'	5.18	1.48	1.41
2	AA	1671	U	N1-C2	5.18	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	AA	2498	C	N1-C2	-5.18	1.34	1.40
2	AA	587	C	N1-C2	5.17	1.45	1.40
2	AA	726	G	N1-C2	5.17	1.41	1.37
2	AA	1396	U	N3-C4	5.17	1.43	1.38
2	AA	1824	G	C5-C4	-5.16	1.34	1.38
2	AA	693	C	N1-C2	5.16	1.45	1.40
2	AA	775	G	O3'-P	5.15	1.67	1.61
2	AA	2825	C	C5-C6	-5.15	1.30	1.34
34	BA	644	G	C5-C6	-5.15	1.37	1.42
2	AA	2595	G	C6-O6	5.15	1.28	1.24
2	AA	2584	U	N1-C2	-5.14	1.33	1.38
2	AA	790	C	O3'-P	-5.14	1.54	1.61
15	AP	136	TRP	CB-CG	5.13	1.59	1.50
2	AA	1634	A	N9-C4	-5.13	1.34	1.37
2	AA	974	G	N9-C4	5.12	1.42	1.38
34	BA	617	G	N9-C4	5.12	1.42	1.38
35	BB	19	G	N9-C8	-5.12	1.34	1.37
2	AA	819	A	C5-C6	-5.12	1.36	1.41
2	AA	1492	G	C2-N2	5.11	1.39	1.34
35	BB	55	U	N1-C2	5.11	1.43	1.38
2	AA	2073	C	N1-C2	-5.11	1.35	1.40
2	AA	1240	U	N1-C2	5.10	1.43	1.38
2	AA	2031	A	N9-C4	-5.10	1.34	1.37
35	BC	45	G	C5-C6	5.09	1.47	1.42
2	AA	2848	G	N9-C4	-5.09	1.33	1.38
35	BB	40	C	O3'-P	5.09	1.67	1.61
2	AA	1402	C	N1-C2	-5.08	1.35	1.40
2	AA	729	G	C2-N3	-5.08	1.28	1.32
34	BA	1541	U	C4-O4	5.07	1.27	1.23
2	AA	1378	A	C2-N3	-5.07	1.28	1.33
2	AA	142	G	C8-N7	5.06	1.33	1.30
34	BA	633	G	C5'-C4'	-5.06	1.45	1.51
2	AA	1492	G	C2-N3	5.05	1.36	1.32
2	AA	973	A	O3'-P	5.05	1.67	1.61
2	AA	1628	G	N9-C4	-5.05	1.33	1.38
2	AA	1786	A	C5-C6	-5.05	1.36	1.41
2	AA	759	G	C3'-O3'	5.04	1.49	1.42
2	AA	2462	U	C4-O4	-5.04	1.19	1.23
35	BB	66	A	C5'-C4'	-5.04	1.45	1.51
35	BB	40	C	O4'-C1'	5.03	1.48	1.41
35	BB	30	G	N9-C4	-5.03	1.33	1.38
35	BC	17	U	N1-C2	5.02	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	AA	1303	G	C2-N2	5.02	1.39	1.34
35	BB	20	G	C3'-O3'	5.02	1.49	1.42
2	AA	1512	G	C5-C6	5.02	1.47	1.42
2	AA	2461	C	C2-N3	-5.02	1.31	1.35
2	AA	1161	C	C2-O2	5.02	1.28	1.24
2	AA	1186	G	N3-C4	-5.01	1.31	1.35
2	AA	1263	U	N1-C2	5.01	1.43	1.38
35	BB	68	U	C2-O2	5.01	1.26	1.22
2	AA	1489	U	C2-N3	5.01	1.41	1.37
2	AA	1700	A	C5'-C4'	-5.00	1.45	1.51

All (1135) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
34	BA	1064	G	N1-C2-N2	-65.61	57.15	116.20
34	BA	1064	G	N3-C2-N2	63.69	164.48	119.90
34	BA	1064	G	N1-C2-N3	-27.38	107.47	123.90
2	AA	1084	A	O5'-P-OP2	-26.59	78.79	110.70
35	BB	36	A	OP1-P-O3'	-18.47	64.57	105.20
35	BB	19	G	N9-C1'-C2'	-16.98	91.92	114.00
34	BA	1064	G	C2-N3-C4	16.50	120.15	111.90
2	AA	2610	C	N1-C1'-C2'	16.06	134.88	114.00
2	AA	974(A)	C	N1-C1'-C2'	15.04	133.55	114.00
2	AA	791	C	C1'-O4'-C4'	-14.59	98.23	109.90
35	BB	71	G	N9-C4-C5	14.46	111.18	105.40
35	BB	71	G	C8-N9-C4	-13.86	100.85	106.40
35	BB	56	C	N1-C1'-C2'	-13.53	96.41	114.00
35	BB	39	U	N1-C1'-C2'	13.04	130.96	114.00
2	AA	1498	C	N1-C1'-C2'	12.97	130.87	114.00
2	AA	1828	G	N9-C1'-C2'	12.96	130.85	114.00
35	BB	37	G	C4-C5-C6	-12.51	111.30	118.80
2	AA	142	G	O4'-C1'-N9	12.47	118.17	108.20
2	AA	930	U	N1-C1'-C2'	12.30	129.99	114.00
35	BB	36	A	P-O3'-C3'	12.22	134.37	119.70
35	BB	29	A	N9-C1'-C2'	-12.16	98.19	114.00
34	BA	727	G	N9-C1'-C2'	-12.16	98.19	114.00
35	BB	34	G	N3-C4-C5	12.14	134.67	128.60
2	AA	1559	G	N9-C1'-C2'	-11.82	98.63	114.00
35	BB	49	C	O4'-C4'-C3'	-11.64	92.36	104.00
35	BB	20	G	C5'-C4'-O4'	-11.50	95.30	109.10
36	B1	48	A	C6-N1-C2	-11.37	111.78	118.60
35	BB	34	G	C8-N9-C4	11.28	110.91	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
34	BA	1064	G	C6-N1-C2	11.13	131.78	125.10
35	BB	37	G	C5'-C4'-O4'	-11.13	95.75	109.10
2	AA	1206	G	N9-C1'-C2'	-11.10	99.57	114.00
35	BB	40	C	C2-N1-C1'	11.07	130.97	118.80
35	BB	37	G	N1-C2-N3	-11.06	117.26	123.90
35	BB	34	G	C5-N7-C8	-11.02	98.79	104.30
34	BA	1541	U	N1-C2-O2	-10.98	115.11	122.80
35	BB	37	G	N1-C2-N2	10.90	126.01	116.20
35	BB	37	G	N3-C4-C5	10.67	133.93	128.60
36	B1	48	A	O5'-P-OP2	-10.67	96.10	105.70
15	AP	20	ILE	CB-CA-C	-10.64	90.31	111.60
2	AA	790	C	P-O3'-C3'	10.51	132.31	119.70
35	BB	39	U	O5'-P-OP1	-10.51	96.25	105.70
2	AA	137	C	N3-C4-C5	-10.47	117.71	121.90
34	BA	1541	U	N1-C2-N3	10.46	121.17	114.90
17	AR	31	PHE	N-CA-C	10.42	139.13	111.00
2	AA	2848	G	N9-C1'-C2'	10.37	127.49	114.00
34	BA	793	U	N1-C1'-C2'	10.32	127.42	114.00
2	AA	137	C	C5-C4-N4	10.28	127.40	120.20
2	AA	142	G	N3-C4-N9	-10.19	119.89	126.00
2	AA	142	G	C6-N1-C2	-10.15	119.01	125.10
4	AD	233	ASP	N-CA-C	10.11	138.30	111.00
2	AA	1359	A	N1-C6-N6	-10.04	112.58	118.60
34	BA	810	C	N1-C1'-C2'	-10.02	100.98	114.00
35	BB	36	A	C3'-C2'-C1'	-9.96	93.53	101.50
2	AA	1786	A	N9-C1'-C2'	9.95	126.94	114.00
35	BB	42	G	C5'-C4'-O4'	9.93	121.02	109.10
2	AA	2644	G	N9-C1'-C2'	-9.92	101.09	112.00
2	AA	1241	A	N9-C1'-C2'	9.90	126.86	114.00
2	AA	386	G	N9-C1'-C2'	9.87	126.83	114.00
25	A1	109	LEU	CA-CB-CG	-9.85	92.64	115.30
34	BA	576	G	N9-C1'-C2'	9.81	126.75	114.00
35	BB	71	G	C4-C5-N7	-9.80	106.88	110.80
4	AD	126	GLY	N-CA-C	-9.69	88.87	113.10
17	AR	14	GLU	C-N-CD	-9.65	99.38	120.60
34	BA	818	G	N9-C1'-C2'	9.62	126.51	114.00
34	BA	792	A	N9-C1'-C2'	9.59	126.47	114.00
2	AA	2358	G	N9-C1'-C2'	-9.59	101.45	112.00
2	AA	442	G	N9-C1'-C2'	9.57	126.44	114.00
2	AA	2032	G	N9-C1'-C2'	9.54	126.40	114.00
35	BB	49	C	O4'-C1'-N1	9.51	115.81	108.20
2	AA	2777	G	O4'-C1'-N9	-9.46	100.64	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	BG	26	CYS	CA-CB-SG	9.44	130.99	114.00
1	AB	119	A	N9-C1'-C2'	-9.43	101.63	112.00
35	BB	40	C	N1-C2-O2	9.41	124.55	118.90
16	AQ	34	LEU	N-CA-C	-9.39	85.64	111.00
35	BB	53	G	N9-C1'-C2'	-9.37	101.69	112.00
2	AA	787	U	C5'-C4'-O4'	9.35	120.32	109.10
34	BA	173	U	P-O3'-C3'	9.34	130.91	119.70
2	AA	125	G	N9-C1'-C2'	9.31	126.11	114.00
2	AA	189	G	N9-C1'-C2'	-9.31	101.76	112.00
35	BB	34	G	N9-C4-C5	-9.30	101.68	105.40
2	AA	2123	G	N9-C1'-C2'	-9.29	101.78	112.00
35	BB	37	G	O4'-C1'-C2'	-9.26	96.54	105.80
35	BB	37	G	C6-C5-N7	9.23	135.94	130.40
2	AA	1800	C	N1-C1'-C2'	-9.20	101.88	112.00
2	AA	1542	G	N9-C1'-C2'	-9.18	101.90	112.00
2	AA	142	G	C2-N3-C4	9.16	116.48	111.90
2	AA	984	A	C5'-C4'-C3'	9.10	130.56	116.00
2	AA	2423	U	O4'-C1'-N1	-9.06	100.95	108.20
35	BB	49	C	O5'-P-OP2	-9.04	97.56	105.70
35	BB	34	G	C4-C5-C6	-8.99	113.41	118.80
2	AA	1489	U	N1-C1'-C2'	8.96	125.65	114.00
2	AA	2832	U	N1-C1'-C2'	-8.95	102.16	112.00
35	BB	39	U	C5'-C4'-C3'	-8.93	101.72	116.00
34	BA	451	A	N9-C1'-C2'	8.90	125.57	114.00
2	AA	2384	G	N9-C1'-C2'	8.89	125.56	114.00
2	AA	2894	G	N9-C1'-C2'	8.76	125.39	114.00
2	AA	2756	U	N1-C1'-C2'	8.74	125.37	114.00
34	BA	47	C	N1-C1'-C2'	8.74	125.36	114.00
2	AA	142	G	C4-C5-C6	-8.67	113.60	118.80
35	BB	37	G	C2-N3-C4	8.64	116.22	111.90
2	AA	1240	U	N1-C1'-C2'	8.64	125.23	114.00
2	AA	142	G	N9-C4-C5	8.63	108.85	105.40
35	BB	39	U	C2'-C3'-O3'	8.61	128.44	109.50
17	AR	5	GLU	N-CA-C	-8.60	87.77	111.00
35	BC	16	U	C2'-C3'-O3'	8.57	128.35	109.50
35	BB	40	C	C6-N1-C1'	-8.55	110.54	120.80
34	BA	402	G	N9-C1'-C2'	-8.54	102.60	112.00
17	AR	28	THR	N-CA-C	8.52	134.00	111.00
35	BB	54	U	O4'-C1'-N1	-8.48	101.42	108.20
2	AA	446	G	N9-C1'-C2'	8.47	125.01	114.00
2	AA	790	C	OP1-P-O3'	8.45	123.79	105.20
35	BB	41	U	C5'-C4'-O4'	8.44	119.22	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	AA	2885	C	N1-C1'-C2'	-8.43	102.72	112.00
2	AA	2606	C	N1-C1'-C2'	-8.42	102.74	112.00
34	BA	1541	U	N1-C1'-C2'	-8.41	102.75	112.00
35	BB	71	G	C4-C5-C6	8.37	123.82	118.80
2	AA	199	A	N9-C1'-C2'	8.36	124.86	114.00
2	AA	2610	C	C1'-O4'-C4'	-8.35	103.22	109.90
2	AA	1253	A	N9-C1'-C2'	8.35	124.86	114.00
35	BB	54	U	C5'-C4'-O4'	8.33	119.10	109.10
14	AO	83	GLU	N-CA-C	-8.33	88.52	111.00
2	AA	2508	G	N9-C1'-C2'	-8.32	102.85	112.00
49	BQ	40	CYS	CA-CB-SG	8.31	128.96	114.00
2	AA	2125	G	N9-C1'-C2'	8.30	124.78	114.00
2	AA	797	C	N1-C1'-C2'	-8.26	102.92	112.00
2	AA	1248	G	N9-C1'-C2'	8.26	124.74	114.00
2	AA	2602	A	O5'-P-OP1	-8.26	98.27	105.70
2	AA	2266	A	N9-C1'-C2'	8.22	124.69	114.00
2	AA	1757	U	N1-C1'-C2'	-8.19	102.99	112.00
34	BA	372	C	N1-C1'-C2'	8.18	124.64	114.00
14	AO	82	ALA	N-CA-C	-8.18	88.91	111.00
35	BC	19	G	N9-C1'-C2'	8.18	124.64	114.00
2	AA	2471	C	N1-C1'-C2'	-8.18	103.00	112.00
18	AS	98	LYS	N-CA-C	-8.18	88.92	111.00
2	AA	1988	C	N1-C1'-C2'	-8.18	103.00	112.00
34	BA	347	G	N9-C1'-C2'	-8.15	103.04	112.00
34	BA	359	U	N1-C1'-C2'	-8.13	103.05	112.00
13	AN	64	ARG	NE-CZ-NH1	8.11	124.36	120.30
2	AA	1012	U	N1-C1'-C2'	-8.10	103.09	112.00
35	BB	37	G	N3-C4-N9	-8.10	121.14	126.00
35	BB	5	A	C5'-C4'-C3'	8.10	128.96	116.00
35	BB	43	G	N9-C1'-C2'	-8.09	103.10	112.00
35	BB	43	G	N9-C4-C5	8.09	108.64	105.40
35	BB	37	G	C4'-C3'-O3'	8.06	129.13	113.00
35	BB	41	U	P-O5'-C5'	-8.06	108.00	120.90
2	AA	1925	C	N1-C1'-C2'	-8.06	103.14	112.00
2	AA	974	G	N9-C1'-C2'	8.04	124.45	114.00
2	AA	574	C	N1-C1'-C2'	8.01	124.42	114.00
2	AA	444(A)	A	N9-C1'-C2'	7.98	124.37	114.00
14	AO	106	VAL	N-CA-C	7.97	132.52	111.00
4	AD	174	ARG	N-CA-C	-7.97	89.49	111.00
2	AA	1924	C	N1-C1'-C2'	-7.94	103.27	112.00
2	AA	142	G	C5-C6-O6	-7.93	123.84	128.60
35	BB	33	U	N1-C1'-C2'	7.91	124.28	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	AA	1673	U	C5'-C4'-C3'	7.87	128.59	116.00
35	BB	34	G	C5'-C4'-O4'	-7.87	99.66	109.10
2	AA	137	C	C6-N1-C2	-7.87	117.15	120.30
2	AA	2781	A	N9-C1'-C2'	7.86	124.22	114.00
2	AA	2113	U	N1-C1'-C2'	7.84	124.19	114.00
2	AA	1625	C	N1-C1'-C2'	7.81	124.15	114.00
4	AD	194	VAL	N-CA-C	-7.80	89.94	111.00
2	AA	1823	G	N9-C1'-C2'	-7.80	103.42	112.00
35	BB	41	U	O4'-C1'-N1	-7.76	101.99	108.20
2	AA	2399	G	N9-C1'-C2'	-7.76	103.46	112.00
2	AA	196	A	N9-C1'-C2'	7.75	124.08	114.00
34	BA	106	C	N1-C1'-C2'	-7.75	103.48	112.00
34	BA	307	C	O4'-C1'-N1	-7.75	102.00	108.20
2	AA	787	U	O4'-C1'-N1	7.74	114.39	108.20
18	AS	90	ARG	N-CA-C	-7.74	90.10	111.00
2	AA	974(A)	C	C6-N1-C2	-7.73	117.21	120.30
32	A8	6	THR	N-CA-C	-7.72	90.16	111.00
17	AR	36	CYS	CA-CB-SG	7.69	127.85	114.00
35	BB	41	U	C5'-C4'-C3'	7.69	128.31	116.00
34	BA	226	G	N9-C1'-C2'	-7.69	103.54	112.00
22	AW	44	GLY	N-CA-C	-7.69	93.88	113.10
2	AA	1140	C	C1'-O4'-C4'	-7.67	103.76	109.90
2	AA	360	G	N9-C1'-C2'	7.67	123.97	114.00
35	BB	34	G	O4'-C1'-N9	-7.66	102.07	108.20
47	BO	76	ASN	N-CA-C	-7.65	90.33	111.00
2	AA	2118	U	N1-C1'-C2'	-7.65	103.58	112.00
2	AA	932	G	N9-C1'-C2'	7.65	123.94	114.00
16	AQ	26	LEU	CA-CB-CG	-7.65	97.70	115.30
35	BB	42	G	C5'-C4'-C3'	-7.64	103.77	116.00
2	AA	2275	C	N1-C1'-C2'	7.64	123.94	114.00
2	AA	1656	C	C5'-C4'-C3'	-7.63	103.79	116.00
34	BA	531	U	N1-C1'-C2'	7.62	123.91	114.00
2	AA	1549	C	N1-C1'-C2'	-7.62	103.62	112.00
2	AA	1183	G	O4'-C1'-N9	7.61	114.29	108.20
2	AA	1140	C	N1-C1'-C2'	7.60	123.88	114.00
2	AA	2772	C	C5'-C4'-O4'	-7.57	100.01	109.10
2	AA	1970	A	C5'-C4'-O4'	7.52	118.13	109.10
35	BB	10	G	N9-C1'-C2'	-7.51	103.74	112.00
34	BA	730	G	O5'-P-OP1	-7.50	98.95	105.70
2	AA	1084	A	C5'-C4'-C3'	-7.49	104.02	116.00
15	AP	84	ARG	N-CA-C	-7.49	90.79	111.00
32	A8	55	TRP	N-CA-C	-7.48	90.79	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	AA	2490	G	N9-C1'-C2'	7.47	123.71	114.00
34	BA	968	A	N9-C1'-C2'	7.46	123.70	114.00
2	AA	787	U	C4'-C3'-C2'	-7.46	95.14	102.60
35	BB	37	G	O4'-C1'-N9	7.46	114.17	108.20
34	BA	1422	G	N9-C1'-C2'	-7.45	103.80	112.00
34	BA	586	C	N1-C1'-C2'	-7.45	103.81	112.00
2	AA	137	C	C2-N3-C4	7.44	123.62	119.90
2	AA	1779	U	C5-C4-O4	-7.43	121.44	125.90
2	AA	2121	G	O4'-C1'-N9	7.43	114.14	108.20
5	AE	274	GLY	N-CA-C	-7.43	94.53	113.10
35	BB	34	G	C4-C5-N7	7.42	113.77	110.80
2	AA	2681	C	N1-C1'-C2'	7.42	123.65	114.00
2	AA	943	U	N1-C1'-C2'	-7.42	103.84	112.00
34	BA	1541	U	C5'-C4'-O4'	7.41	117.99	109.10
26	A2	12	TYR	N-CA-C	7.40	130.98	111.00
2	AA	1024	G	N9-C1'-C2'	-7.40	103.86	112.00
2	AA	1800	C	O4'-C4'-C3'	-7.39	96.61	104.00
2	AA	1699	G	N9-C1'-C2'	7.39	123.61	114.00
10	AK	8	ASP	N-CA-C	7.38	130.92	111.00
35	BB	43	G	C8-N9-C4	-7.38	103.45	106.40
34	BA	1482	G	N9-C1'-C2'	-7.36	103.91	112.00
5	AE	225	LYS	N-CA-C	-7.36	91.14	111.00
2	AA	1084	A	O5'-P-OP1	7.32	119.49	110.70
2	AA	2584	U	N1-C1'-C2'	-7.31	103.96	112.00
34	BA	644	G	N9-C1'-C2'	-7.31	103.96	112.00
34	BA	158	G	N9-C1'-C2'	-7.30	103.97	112.00
35	BB	40	C	N1-C2-N3	-7.30	114.09	119.20
2	AA	1571	A	C5'-C4'-O4'	-7.29	100.36	109.10
2	AA	1992	G	C2'-C3'-O3'	7.29	125.53	109.50
34	BA	457	C	N1-C1'-C2'	-7.28	103.99	112.00
2	AA	1642	G	N9-C1'-C2'	-7.26	104.01	112.00
35	BB	37	G	C5'-C4'-C3'	-7.26	104.39	116.00
34	BA	960	U	N1-C1'-C2'	7.25	123.42	114.00
2	AA	1944	U	O5'-P-OP1	-7.23	99.20	105.70
6	AF	14	GLY	N-CA-C	7.23	131.17	113.10
2	AA	1187	G	N9-C1'-C2'	7.22	123.39	114.00
2	AA	2420	C	N1-C1'-C2'	-7.22	104.06	112.00
17	AR	9	CYS	CA-CB-SG	7.22	127.00	114.00
34	BA	1541	U	N3-C4-C5	-7.22	110.27	114.60
5	AE	291	GLY	N-CA-C	-7.21	95.07	113.10
21	AV	34	LEU	CA-CB-CG	7.19	131.85	115.30
2	AA	775	G	N3-C2-N2	7.19	124.93	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	AA	532	A	N9-C1'-C2'	7.18	123.34	114.00
2	AA	979	G	N9-C1'-C2'	-7.17	104.11	112.00
35	BB	40	C	C2'-C3'-O3'	7.17	125.28	109.50
2	AA	137	C	N1-C1'-C2'	7.17	123.32	114.00
2	AA	387	U	N1-C1'-C2'	7.17	123.32	114.00
2	AA	786	C	N1-C1'-C2'	7.17	123.32	114.00
2	AA	2582	G	O4'-C1'-N9	-7.17	102.47	108.20
2	AA	2478	A	N9-C1'-C2'	-7.16	104.12	112.00
34	BA	372	C	C2'-C3'-O3'	7.16	125.25	109.50
1	AB	118	G	N9-C1'-C2'	-7.15	104.13	112.00
2	AA	1971	A	N9-C1'-C2'	-7.15	104.13	112.00
4	AD	214	MET	N-CA-C	-7.14	91.73	111.00
35	BB	16	U	C5'-C4'-O4'	-7.13	100.54	109.10
36	B1	66	G	N9-C1'-C2'	-7.12	104.16	112.00
34	BA	1185	G	N9-C1'-C2'	-7.10	104.19	112.00
39	BG	19	LEU	CA-CB-CG	-7.10	98.97	115.30
35	BB	35	A	N9-C1'-C2'	7.08	123.21	114.00
2	AA	1059	G	N9-C1'-C2'	-7.08	104.21	112.00
34	BA	1446	A	N9-C1'-C2'	7.07	123.19	114.00
2	AA	1625	C	C3'-C2'-C1'	7.07	107.16	101.50
2	AA	575	A	N9-C1'-C2'	7.07	123.19	114.00
2	AA	1673	U	C1'-O4'-C4'	-7.06	104.25	109.90
2	AA	2587	A	N9-C1'-C2'	7.06	123.18	114.00
2	AA	2238	G	O4'-C1'-N9	7.05	113.84	108.20
34	BA	753	A	C2'-C3'-O3'	-7.05	93.99	109.50
2	AA	1229	G	N9-C1'-C2'	-7.04	104.26	112.00
2	AA	787	U	N1-C1'-C2'	-7.03	104.27	112.00
2	AA	84	A	N9-C1'-C2'	7.03	123.14	114.00
5	AE	63	GLU	N-CA-C	7.02	129.96	111.00
2	AA	1509	C	N1-C1'-C2'	-7.02	104.28	112.00
2	AA	2586	C	N1-C1'-C2'	-7.01	104.29	112.00
35	BB	20	G	N9-C1'-C2'	7.00	123.10	114.00
30	A6	43	VAL	N-CA-C	-6.97	92.17	111.00
2	AA	983	A	N9-C1'-C2'	6.95	123.03	114.00
2	AA	2665	A	C8-N9-C1'	-6.93	115.23	127.70
21	AV	34	LEU	N-CA-C	6.92	129.70	111.00
2	AA	152	G	N9-C1'-C2'	-6.91	104.40	112.00
2	AA	1742	C	O4'-C4'-C3'	-6.90	97.10	104.00
42	BJ	130	GLY	N-CA-C	-6.90	95.84	113.10
2	AA	2620	C	C1'-O4'-C4'	-6.90	104.38	109.90
2	AA	139	G	C2'-C3'-O3'	6.90	124.73	113.70
2	AA	714	U	N1-C1'-C2'	-6.90	104.41	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	AA	2665	A	C4-N9-C1'	6.90	138.71	126.30
2	AA	828	U	N1-C1'-C2'	6.89	122.96	114.00
13	AN	20	LEU	CA-CB-CG	6.89	131.16	115.30
2	AA	1605	C	C5'-C4'-C3'	-6.89	104.98	116.00
1	AB	12	C	N1-C1'-C2'	6.89	122.95	114.00
35	BB	34	G	OP2-P-O3'	6.88	120.34	105.20
2	AA	1085	A	N9-C1'-C2'	6.87	122.93	114.00
2	AA	1239	G	N9-C1'-C2'	6.87	122.93	114.00
2	AA	717	G	N9-C1'-C2'	-6.87	104.45	112.00
17	AR	14	GLU	N-CA-C	6.87	129.53	111.00
34	BA	1193	G	N9-C1'-C2'	-6.86	104.46	112.00
47	BO	37	CYS	CA-CB-SG	-6.86	101.66	114.00
34	BA	1281	U	C2'-C3'-O3'	6.85	124.67	113.70
2	AA	317	G	N9-C1'-C2'	-6.84	104.47	112.00
7	AG	15	GLU	C-N-CD	-6.84	105.55	120.60
2	AA	527	C	N1-C1'-C2'	6.83	122.88	114.00
35	BC	13	C	N1-C1'-C2'	-6.83	104.49	112.00
2	AA	931	G	O4'-C1'-N9	6.83	113.66	108.20
2	AA	2825	C	N1-C1'-C2'	-6.82	104.49	112.00
34	BA	1371	G	N9-C1'-C2'	-6.82	104.49	112.00
2	AA	832	G	C5'-C4'-C3'	6.82	126.91	116.00
21	AV	43	PHE	N-CA-C	-6.82	92.59	111.00
36	B1	48	A	C4-C5-N7	-6.81	107.29	110.70
35	BB	54	U	C2-N1-C1'	6.81	125.87	117.70
42	BJ	156	TRP	NE1-CE2-CD2	6.81	114.11	107.30
6	AF	193	LEU	CA-CB-CG	-6.81	99.64	115.30
2	AA	1968	G	N9-C1'-C2'	-6.79	104.53	112.00
34	BA	135	C	N1-C1'-C2'	-6.79	104.53	112.00
34	BA	1541	U	N3-C4-O4	-6.79	114.65	119.40
34	BA	1124	G	N9-C1'-C2'	6.79	122.82	114.00
28	A4	45	GLY	N-CA-C	6.78	130.06	113.10
2	AA	2581	G	N9-C1'-C2'	6.77	122.80	114.00
5	AE	199	ALA	N-CA-C	-6.77	92.73	111.00
2	AA	974	G	O5'-P-OP1	-6.76	99.61	105.70
34	BA	993	G	N9-C1'-C2'	6.76	122.79	114.00
35	BB	37	G	C5-C6-N1	6.76	114.88	111.50
2	AA	774	A	C2'-C3'-O3'	6.76	124.51	113.70
2	AA	864	G	N9-C1'-C2'	6.75	122.78	114.00
2	AA	945	A	O4'-C4'-C3'	-6.74	97.26	104.00
4	AD	155	ARG	N-CA-C	-6.74	92.80	111.00
2	AA	1955	U	N1-C1'-C2'	6.73	122.75	114.00
2	AA	2590	A	N9-C1'-C2'	-6.73	104.60	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	AK	32	LYS	N-CA-C	-6.72	92.85	111.00
34	BA	740	U	N1-C1'-C2'	-6.72	104.61	112.00
42	BJ	156	TRP	CD2-CE2-CZ2	-6.72	114.24	122.30
16	AQ	126	GLY	N-CA-C	-6.71	96.33	113.10
2	AA	2336	A	N9-C1'-C2'	6.70	122.71	114.00
2	AA	1536	A	N9-C1'-C2'	6.70	122.71	114.00
2	AA	2447	G	N9-C1'-C2'	6.68	122.68	114.00
2	AA	1746	G	N9-C1'-C2'	-6.67	104.66	112.00
2	AA	574	C	O4'-C1'-N1	6.67	113.54	108.20
2	AA	931	G	C1'-O4'-C4'	-6.67	104.57	109.90
35	BB	7	U	O5'-P-OP2	-6.67	99.70	105.70
39	BG	12	CYS	N-CA-C	-6.67	92.99	111.00
2	AA	984	A	C5'-C4'-O4'	-6.66	101.11	109.10
2	AA	945	A	O4'-C1'-N9	6.66	113.53	108.20
2	AA	1927	A	N9-C1'-C2'	-6.66	104.68	112.00
32	A8	35	GLY	N-CA-C	-6.65	96.48	113.10
2	AA	2603	G	O5'-P-OP1	-6.63	99.73	105.70
35	BB	40	C	C6-N1-C2	-6.63	117.65	120.30
34	BA	1175	G	N9-C1'-C2'	-6.62	104.71	112.00
2	AA	162	U	N1-C1'-C2'	6.61	122.60	114.00
29	A5	44	HIS	N-CA-C	6.61	128.86	111.00
2	AA	687	C	N1-C1'-C2'	6.61	122.60	114.00
2	AA	1265	A	C2'-C3'-O3'	6.61	124.27	113.70
34	BA	765	G	OP2-P-O3'	6.60	119.72	105.20
34	BA	645	C	N1-C1'-C2'	-6.58	104.77	112.00
34	BA	587	G	N9-C1'-C2'	-6.57	104.78	112.00
35	BB	43	G	C4-C5-N7	-6.57	108.17	110.80
2	AA	2687	U	O4'-C1'-N1	6.56	113.45	108.20
6	AF	82	GLN	N-CA-C	6.56	128.72	111.00
35	BB	38	A	C2'-C3'-O3'	6.56	124.20	113.70
2	AA	1440	G	C5'-C4'-C3'	-6.56	105.51	116.00
2	AA	2383	G	N9-C1'-C2'	6.55	122.52	114.00
2	AA	2621	A	N9-C1'-C2'	-6.55	104.80	112.00
2	AA	2488	A	N9-C1'-C2'	-6.55	104.80	112.00
35	BB	55	U	N1-C1'-C2'	6.55	122.51	114.00
2	AA	2460	U	N1-C1'-C2'	-6.54	104.80	112.00
2	AA	573	G	N9-C1'-C2'	6.54	122.50	114.00
2	AA	602	G	N9-C1'-C2'	6.54	122.50	114.00
2	AA	2119	A	N9-C1'-C2'	6.53	122.50	114.00
34	BA	1402	C	N1-C1'-C2'	-6.53	104.81	112.00
35	BB	54	U	C6-N1-C1'	-6.53	112.06	121.20
35	BB	69	U	C5-C4-O4	-6.53	121.98	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	AA	548	A	N9-C1'-C2'	6.52	122.47	114.00
34	BA	348	G	N9-C1'-C2'	-6.52	104.83	112.00
2	AA	2049	G	N9-C1'-C2'	-6.52	104.83	112.00
2	AA	1956	U	O5'-P-OP1	-6.52	99.84	105.70
2	AA	2425	A	N9-C1'-C2'	6.51	122.47	114.00
2	AA	2624	G	N9-C1'-C2'	-6.51	104.84	112.00
2	AA	271(B)	G	N9-C1'-C2'	6.51	122.46	114.00
35	BB	12	U	N1-C1'-C2'	-6.50	104.85	112.00
2	AA	1512	G	N9-C1'-C2'	6.50	122.44	114.00
2	AA	1970	A	O4'-C1'-N9	6.50	113.40	108.20
43	BK	133	LEU	CA-CB-CG	-6.49	100.37	115.30
35	BB	76	A	C2'-C3'-O3'	-6.49	95.23	109.50
2	AA	574	C	C1'-O4'-C4'	-6.48	104.72	109.90
2	AA	1544	C	O4'-C1'-N1	6.48	113.39	108.20
38	BF	13	GLY	N-CA-C	-6.48	96.90	113.10
17	AR	16	GLY	N-CA-C	-6.48	96.90	113.10
35	BB	71	G	N7-C8-N9	6.47	116.34	113.10
47	BO	59	ARG	N-CA-C	-6.47	93.52	111.00
2	AA	1781	C	C2'-C3'-O3'	6.47	124.05	113.70
2	AA	1825	A	O4'-C1'-N9	6.47	113.38	108.20
35	BB	37	G	N9-C1'-C2'	6.47	122.41	114.00
2	AA	119	A	N9-C1'-C2'	6.46	122.40	114.00
2	AA	2402	C	N1-C1'-C2'	-6.46	104.89	112.00
2	AA	1700	A	O5'-P-OP1	-6.45	99.89	105.70
17	AR	44	ARG	N-CA-C	6.45	128.41	111.00
34	BA	378	G	O5'-P-OP2	-6.45	99.90	105.70
2	AA	2100	G	N9-C1'-C2'	-6.45	104.91	112.00
34	BA	477	G	N9-C1'-C2'	-6.44	104.92	112.00
4	AD	214	MET	CA-CB-CG	6.43	124.24	113.30
2	AA	2876	G	N9-C1'-C2'	-6.42	104.93	112.00
2	AA	1147	C	N1-C1'-C2'	-6.42	104.94	112.00
2	AA	775	G	N1-C2-N2	-6.42	110.42	116.20
2	AA	790	C	C1'-O4'-C4'	-6.42	104.77	109.90
15	AP	47	GLU	N-CA-C	6.42	128.33	111.00
15	AP	98	GLY	N-CA-C	6.42	129.14	113.10
2	AA	2422	A	N9-C1'-C2'	6.42	122.34	114.00
34	BA	1432	G	N9-C1'-C2'	-6.42	104.94	112.00
2	AA	1183	G	O4'-C4'-C3'	-6.41	97.59	104.00
35	BB	47	U	OP2-P-O3'	6.41	119.31	105.20
2	AA	1691	C	C5'-C4'-O4'	-6.40	101.42	109.10
2	AA	1937	A	N9-C1'-C2'	6.40	122.32	114.00
7	AG	93	LEU	CA-CB-CG	-6.39	100.60	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	AA	775	G	N9-C1'-C2'	6.39	122.31	114.00
30	A6	19	GLY	N-CA-C	-6.38	97.15	113.10
35	BB	17	U	N1-C1'-C2'	6.38	122.29	114.00
2	AA	1312	U	C2'-C3'-O3'	6.37	123.90	113.70
17	AR	7	ASP	N-CA-C	-6.37	93.81	111.00
43	BK	80	ILE	N-CA-C	-6.37	93.80	111.00
2	AA	1727	U	N1-C1'-C2'	6.37	122.28	114.00
35	BB	4	G	C5'-C4'-C3'	6.36	126.18	116.00
4	AD	114	GLU	N-CA-C	6.36	128.17	111.00
2	AA	2054	A	N9-C1'-C2'	-6.35	105.01	112.00
2	AA	2174	C	N1-C1'-C2'	6.35	122.26	114.00
35	BB	44	A	C2'-C3'-O3'	-6.35	95.53	109.50
34	BA	1502	A	O4'-C1'-N9	6.34	113.27	108.20
2	AA	142	G	C4-C5-N7	-6.34	108.26	110.80
34	BA	771	G	C5'-C4'-C3'	-6.34	105.86	116.00
6	AF	94	THR	N-CA-C	-6.33	93.92	111.00
2	AA	2042	A	C1'-O4'-C4'	-6.32	104.84	109.90
2	AA	2826	A	N9-C1'-C2'	-6.32	105.05	112.00
2	AA	541	C	O4'-C1'-N1	6.32	113.26	108.20
41	BI	64	GLN	N-CA-C	-6.31	93.95	111.00
2	AA	496	G	N9-C1'-C2'	-6.31	105.06	112.00
34	BA	752	G	N9-C1'-C2'	6.31	122.20	114.00
13	AN	17	ARG	N-CA-C	-6.30	93.98	111.00
2	AA	1646	C	N1-C1'-C2'	6.30	122.19	114.00
34	BA	1541	U	O4'-C4'-C3'	-6.29	97.71	104.00
2	AA	342	G	C5'-C4'-O4'	6.29	116.65	109.10
2	AA	1324	G	N9-C1'-C2'	6.29	122.17	114.00
35	BB	14	A	C4'-C3'-C2'	-6.28	96.32	102.60
17	AR	15	PRO	N-CA-C	6.27	128.40	112.10
2	AA	1206	G	O4'-C4'-C3'	-6.27	97.73	104.00
2	AA	1593	G	C5'-C4'-C3'	-6.27	105.97	116.00
24	A0	116	LEU	CA-CB-CG	-6.26	100.89	115.30
2	AA	790	C	OP2-P-O3'	-6.26	91.43	105.20
34	BA	1311	G	N9-C1'-C2'	-6.25	105.12	112.00
2	AA	2042	A	O4'-C1'-N9	6.25	113.20	108.20
15	AP	25	GLY	N-CA-C	-6.25	97.47	113.10
2	AA	286	C	N1-C1'-C2'	-6.25	105.12	112.00
2	AA	2190	G	N9-C1'-C2'	-6.25	105.12	112.00
2	AA	1317	A	N9-C1'-C2'	-6.25	105.13	112.00
10	AK	124	LEU	N-CA-C	6.25	127.86	111.00
35	BB	31	A	N9-C1'-C2'	-6.25	105.13	112.00
4	AD	83	ASP	N-CA-C	6.24	127.85	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	AA	987	G	N9-C1'-C2'	-6.24	105.14	112.00
2	AA	2610	C	O4'-C1'-N1	6.23	113.19	108.20
2	AA	1792	G	N9-C1'-C2'	-6.23	105.15	112.00
2	AA	971	C	O4'-C1'-N1	6.23	113.18	108.20
2	AA	1716	U	N1-C1'-C2'	-6.23	105.15	112.00
4	AD	191	VAL	CB-CA-C	-6.22	99.57	111.40
34	BA	385	C	N1-C1'-C2'	-6.22	105.16	112.00
33	A9	27	CYS	N-CA-CB	-6.22	99.41	110.60
32	A8	36	LYS	N-CA-C	6.22	127.78	111.00
35	BB	51	G	N9-C1'-C2'	6.21	122.08	114.00
2	AA	1274	A	N9-C1'-C2'	-6.21	105.17	112.00
4	AD	141	HIS	N-CA-C	-6.20	94.25	111.00
2	AA	458	G	N9-C1'-C2'	6.20	122.06	114.00
34	BA	904	C	N1-C1'-C2'	-6.20	105.18	112.00
35	BB	40	C	O5'-P-OP1	-6.20	100.12	105.70
2	AA	268	C	N1-C1'-C2'	6.20	122.05	114.00
42	BJ	156	TRP	CE2-CD2-CE3	6.20	126.14	118.70
2	AA	2553	G	C5'-C4'-O4'	6.19	116.53	109.10
42	BJ	156	TRP	CE2-CD2-CG	-6.19	102.34	107.30
2	AA	234	C	N1-C1'-C2'	-6.19	105.19	112.00
35	BB	29	A	C5'-C4'-O4'	6.18	116.52	109.10
2	AA	1018	C	N1-C1'-C2'	6.18	122.03	114.00
2	AA	1530	G	N9-C1'-C2'	6.18	122.03	114.00
2	AA	2572	A	N9-C1'-C2'	-6.18	105.20	112.00
34	BA	1541	U	C3'-C2'-C1'	6.18	106.44	101.50
34	BA	816	A	N9-C1'-C2'	6.18	122.03	114.00
14	AO	121	ILE	N-CA-C	-6.18	94.33	111.00
33	A9	27	CYS	CB-CA-C	6.17	122.75	110.40
35	BB	19	G	C5'-C4'-C3'	6.17	125.88	116.00
35	BB	1	G	C2'-C3'-O3'	-6.17	95.92	109.50
2	AA	704	G	N9-C1'-C2'	6.17	122.02	114.00
34	BA	156	G	N9-C1'-C2'	-6.16	105.22	112.00
2	AA	2267	A	O5'-P-OP1	-6.16	100.16	105.70
34	BA	723	U	O4'-C1'-N1	-6.15	103.28	108.20
10	AK	127	THR	N-CA-C	-6.15	94.40	111.00
5	AE	253	GLN	N-CA-C	-6.13	94.44	111.00
6	AF	233	THR	N-CA-C	6.13	127.55	111.00
35	BB	18	G	N3-C4-N9	-6.12	122.33	126.00
34	BA	1541	U	C5-C6-N1	-6.12	119.64	122.70
34	BA	964	A	N9-C1'-C2'	-6.12	105.27	112.00
2	AA	49	A	N9-C1'-C2'	-6.12	105.27	112.00
2	AA	2014	A	N9-C1'-C2'	-6.11	105.28	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
34	BA	38	G	N9-C1'-C2'	-6.11	105.28	112.00
35	BB	48	C	OP1-P-O3'	6.11	118.65	105.20
2	AA	967	C	N1-C1'-C2'	-6.11	105.28	112.00
2	AA	1667	G	N9-C1'-C2'	6.11	121.94	114.00
2	AA	2270	G	N9-C1'-C2'	-6.11	105.28	112.00
36	B1	48	A	C2-N3-C4	6.11	113.65	110.60
34	BA	1506	U	C1'-O4'-C4'	-6.11	105.02	109.90
34	BA	243	A	N9-C1'-C2'	6.11	121.94	114.00
2	AA	1220	A	N9-C1'-C2'	6.10	121.94	114.00
2	AA	2599	G	N9-C1'-C2'	6.10	121.93	114.00
2	AA	421	U	N1-C1'-C2'	6.10	121.93	114.00
5	AE	109	ASP	N-CA-C	-6.10	94.54	111.00
2	AA	2854	G	N9-C1'-C2'	-6.09	105.30	112.00
2	AA	1424	G	O4'-C4'-C3'	-6.09	97.91	104.00
13	AN	88	ARG	N-CA-C	-6.08	94.58	111.00
35	BB	38	A	C4-N9-C1'	6.08	137.24	126.30
1	AB	34	U	N1-C1'-C2'	6.08	121.90	114.00
21	AV	8	ARG	N-CA-C	-6.07	94.60	111.00
2	AA	2439	A	N9-C1'-C2'	6.07	121.89	114.00
34	BA	314	C	N1-C1'-C2'	6.07	121.89	114.00
2	AA	178	G	N9-C1'-C2'	-6.07	105.33	112.00
2	AA	2107	C	N1-C1'-C2'	-6.07	105.33	112.00
11	AL	66	PHE	N-CA-C	6.06	127.37	111.00
34	BA	1004	A	C2'-C3'-O3'	6.06	123.40	113.70
34	BA	321	A	N9-C1'-C2'	-6.06	105.33	112.00
2	AA	654	A	N9-C1'-C2'	-6.05	105.34	112.00
2	AA	2131	G	N9-C1'-C2'	6.05	121.87	114.00
15	AP	83	PHE	N-CA-C	-6.05	94.67	111.00
35	BC	61	C	C5'-C4'-O4'	6.05	116.36	109.10
2	AA	1999	C	N1-C1'-C2'	-6.05	105.35	112.00
2	AA	1670	C	O4'-C1'-N1	-6.04	103.37	108.20
17	AR	32	CYS	N-CA-C	6.04	127.31	111.00
2	AA	2585	U	N1-C1'-C2'	6.04	121.85	114.00
2	AA	2716	U	N1-C1'-C2'	-6.04	105.36	112.00
35	BB	21	A	C5'-C4'-C3'	6.03	125.65	116.00
2	AA	834	C	N1-C1'-C2'	-6.03	105.37	112.00
34	BA	818	G	C1'-O4'-C4'	-6.02	105.08	109.90
2	AA	142	G	C5-C6-N1	6.02	114.51	111.50
2	AA	530	G	O4'-C1'-N9	6.02	113.01	108.20
2	AA	627	A	O4'-C1'-N9	6.02	113.01	108.20
35	BB	38	A	C8-N9-C1'	-6.02	116.87	127.70
2	AA	2647	U	O5'-P-OP1	-6.01	100.29	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	AA	1728	G	N9-C1'-C2'	6.00	121.80	114.00
2	AA	282	A	N9-C1'-C2'	-6.00	105.40	112.00
2	AA	2320	A	N9-C1'-C2'	6.00	121.80	114.00
2	AA	1493	C	N1-C1'-C2'	6.00	121.80	114.00
2	AA	1805	U	O4'-C4'-C3'	-6.00	98.00	104.00
2	AA	930	U	N1-C2-O2	5.99	126.99	122.80
34	BA	1506	U	O4'-C1'-N1	5.98	112.98	108.20
2	AA	687	C	N1-C2-O2	5.98	122.49	118.90
10	AK	130	PRO	N-CA-C	-5.98	96.56	112.10
34	BA	489	C	N1-C1'-C2'	-5.98	105.42	112.00
2	AA	2819	G	N9-C1'-C2'	5.98	121.77	114.00
5	AE	192	ILE	N-CA-C	-5.98	94.87	111.00
35	BB	71	G	C4-N9-C1'	5.98	134.27	126.50
2	AA	1910	G	N9-C1'-C2'	-5.97	105.43	112.00
28	A4	43	TRP	CA-CB-CG	5.97	125.05	113.70
35	BB	23	A	N9-C1'-C2'	-5.97	105.43	112.00
35	BB	41	U	O3'-P-O5'	-5.97	92.65	104.00
2	AA	790	C	O4'-C1'-N1	5.97	112.97	108.20
35	BB	52	U	N1-C1'-C2'	5.97	121.76	114.00
2	AA	1698	A	C5'-C4'-O4'	-5.97	101.94	109.10
2	AA	1668	A	C2'-C3'-O3'	5.96	123.24	113.70
23	AX	27	GLY	N-CA-C	-5.96	98.20	113.10
34	BA	1091	U	N1-C1'-C2'	-5.96	105.44	112.00
34	BA	197	A	N9-C1'-C2'	5.95	121.73	114.00
2	AA	1635	G	C5'-C4'-C3'	-5.95	106.48	116.00
2	AA	1732	A	N9-C1'-C2'	5.95	121.73	114.00
2	AA	296	C	O4'-C1'-N1	5.95	112.96	108.20
2	AA	1742	C	N1-C1'-C2'	-5.94	105.46	112.00
34	BA	517	G	N9-C1'-C2'	5.94	121.72	114.00
2	AA	338	G	N9-C1'-C2'	5.94	121.72	114.00
2	AA	1970	A	C1'-O4'-C4'	-5.94	105.15	109.90
2	AA	1011	G	N9-C1'-C2'	5.94	121.72	114.00
2	AA	1936	A	N9-C1'-C2'	5.94	121.72	114.00
2	AA	2724	C	O4'-C1'-N1	5.94	112.95	108.20
35	BB	49	C	C5'-C4'-O4'	5.94	116.22	109.10
34	BA	1192	C	N1-C2-O2	5.93	122.46	118.90
2	AA	155	C	N1-C1'-C2'	5.93	121.71	114.00
2	AA	2564	A	C5'-C4'-C3'	-5.93	106.51	116.00
35	BB	39	U	C6-N1-C2	-5.93	117.44	121.00
35	BB	56	C	O4'-C1'-N1	-5.93	103.46	108.20
53	BU	80	PRO	N-CA-C	5.92	127.49	112.10
2	AA	1568	G	N9-C1'-C2'	5.92	121.69	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	AA	1310	G	C5'-C4'-O4'	5.92	116.20	109.10
34	BA	1200	C	N1-C1'-C2'	5.92	121.69	114.00
2	AA	1247	A	N9-C1'-C2'	5.92	121.69	114.00
34	BA	1408	A	N9-C1'-C2'	-5.92	105.49	112.00
34	BA	1004	A	N9-C1'-C2'	5.91	121.68	114.00
2	AA	2657	A	N9-C1'-C2'	-5.91	105.50	112.00
2	AA	2757	A	N9-C1'-C2'	-5.90	105.51	112.00
27	A3	38	VAL	N-CA-C	5.90	126.94	111.00
2	AA	2664	G	N9-C1'-C2'	-5.90	105.51	112.00
35	BB	74	C	O4'-C1'-N1	5.90	112.92	108.20
34	BA	90	U	N1-C1'-C2'	5.90	121.67	114.00
35	BB	34	G	P-O3'-C3'	-5.90	112.62	119.70
55	BW	96	GLY	N-CA-C	5.90	127.84	113.10
2	AA	973	A	O4'-C1'-N9	5.89	112.92	108.20
34	BA	575	G	N9-C1'-C2'	5.89	121.66	114.00
34	BA	1166	G	N9-C1'-C2'	-5.89	105.52	112.00
2	AA	1888	G	N9-C1'-C2'	5.89	121.65	114.00
2	AA	1083	U	O3'-P-O5'	5.89	115.18	104.00
34	BA	92	C	O4'-C1'-N1	5.89	112.91	108.20
2	AA	386	G	O4'-C1'-N9	5.88	112.91	108.20
2	AA	1824	G	N9-C1'-C2'	-5.88	105.53	112.00
34	BA	1529	G	O4'-C1'-N9	5.88	112.90	108.20
2	AA	2566	A	N9-C1'-C2'	5.88	121.64	114.00
35	BB	36	A	O3'-P-O5'	5.88	115.17	104.00
2	AA	787	U	O4'-C4'-C3'	-5.87	98.13	104.00
2	AA	2664	G	O4'-C4'-C3'	-5.87	98.13	104.00
35	BB	58	A	N9-C1'-C2'	5.87	121.64	114.00
35	BB	15	G	C4'-C3'-O3'	5.87	124.74	113.00
37	BE	151	GLY	N-CA-C	-5.87	98.43	113.10
34	BA	653	A	N9-C1'-C2'	5.87	121.62	114.00
2	AA	865	C	N1-C1'-C2'	5.86	121.62	114.00
2	AA	1444	G	C2'-C3'-O3'	5.86	123.08	113.70
5	AE	238	LEU	CA-CB-CG	-5.86	101.82	115.30
2	AA	2732	G	N9-C1'-C2'	5.86	121.61	114.00
34	BA	556	C	O4'-C4'-C3'	-5.86	98.14	104.00
2	AA	142	G	C6-C5-N7	5.85	133.91	130.40
2	AA	1304	C	N1-C1'-C2'	-5.85	105.57	112.00
34	BA	360	A	N9-C1'-C2'	-5.84	105.57	112.00
30	A6	24	THR	N-CA-C	5.84	126.77	111.00
2	AA	974	G	C5'-C4'-O4'	5.84	116.11	109.10
2	AA	917	A	C4-N9-C1'	5.83	136.80	126.30
2	AA	2509	G	N9-C1'-C2'	-5.83	105.58	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
16	AQ	33	ARG	N-CA-C	-5.83	95.25	111.00
14	AO	53	ARG	N-CA-C	5.83	126.74	111.00
34	BA	1025	U	N1-C1'-C2'	-5.83	105.59	112.00
2	AA	271(C)	U	C2'-C3'-O3'	5.83	123.02	113.70
2	AA	2110	G	C2'-C3'-O3'	5.83	123.02	113.70
2	AA	1625	C	C2-N1-C1'	5.82	125.20	118.80
2	AA	1482	U	C3'-C2'-C1'	-5.82	96.84	101.50
35	BB	15	G	C5'-C4'-O4'	-5.82	102.12	109.10
34	BA	563	A	N9-C1'-C2'	5.82	121.56	114.00
2	AA	953	A	N9-C1'-C2'	-5.82	105.60	112.00
2	AA	829	A	N9-C1'-C2'	5.81	121.56	114.00
30	A6	29	ARG	N-CA-C	-5.81	95.32	111.00
34	BA	454	C	N1-C1'-C2'	-5.81	105.61	112.00
29	A5	38	GLY	N-CA-C	-5.81	98.58	113.10
2	AA	1206	G	C4'-C3'-C2'	-5.80	96.80	102.60
2	AA	1494	A	N9-C1'-C2'	-5.80	105.62	112.00
17	AR	15	PRO	CA-N-CD	-5.80	103.37	111.50
2	AA	1359	A	C5-C6-N6	5.79	128.34	123.70
2	AA	1324	G	C2'-C3'-O3'	5.79	122.97	113.70
35	BB	53	G	C4'-C3'-C2'	-5.79	96.81	102.60
2	AA	2040	C	O4'-C4'-C3'	-5.79	98.21	104.00
13	AN	95	GLY	N-CA-C	5.79	127.58	113.10
35	BB	45	G	O4'-C1'-N9	5.79	112.83	108.20
34	BA	533	A	N9-C1'-C2'	5.78	121.52	114.00
34	BA	388	G	N9-C1'-C2'	5.78	121.52	114.00
2	AA	1732	A	O4'-C1'-N9	5.78	112.82	108.20
2	AA	2656	U	C5-C4-O4	-5.78	122.43	125.90
2	AA	2458	G	C5'-C4'-C3'	-5.78	106.76	116.00
2	AA	2361	A	C5'-C4'-C3'	-5.77	106.77	116.00
2	AA	2091	U	N1-C1'-C2'	-5.77	105.65	112.00
35	BB	19	G	C2'-C3'-O3'	-5.77	96.81	109.50
2	AA	2345	G	C1'-O4'-C4'	-5.77	105.29	109.90
34	BA	1294	G	N9-C1'-C2'	-5.76	105.66	112.00
2	AA	774	A	C6-N1-C2	-5.76	115.14	118.60
2	AA	1364	G	C5'-C4'-O4'	-5.76	102.19	109.10
2	AA	687	C	C2-N1-C1'	5.76	125.14	118.80
2	AA	1626	G	C5'-C4'-O4'	5.76	116.01	109.10
12	AM	19	MET	CA-CB-CG	-5.76	103.51	113.30
6	AF	57	PRO	N-CA-C	5.75	127.06	112.10
35	BB	16	U	N1-C1'-C2'	5.75	121.47	114.00
2	AA	1625	C	N1-C2-O2	5.74	122.35	118.90
2	AA	1372	U	C5-C4-O4	-5.74	122.46	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
34	BA	1301	U	N1-C1'-C2'	5.74	121.46	114.00
2	AA	1206	G	C5'-C4'-C3'	5.74	125.18	116.00
26	A2	99	GLN	N-CA-C	5.74	126.49	111.00
35	BB	15	G	O4'-C4'-C3'	-5.74	98.26	104.00
2	AA	667	U	C5'-C4'-O4'	-5.74	102.22	109.10
2	AA	444(A)	A	O5'-P-OP2	5.73	117.58	110.70
13	AN	64	ARG	NE-CZ-NH2	-5.73	117.44	120.30
51	BS	16	HIS	N-CA-C	-5.73	95.54	111.00
29	A5	10	LYS	N-CA-C	-5.73	95.54	111.00
2	AA	2620	C	O4'-C1'-N1	5.72	112.78	108.20
35	BB	34	G	N9-C1'-C2'	5.72	121.44	114.00
2	AA	805	G	C5'-C4'-C3'	-5.72	106.85	116.00
21	AV	167	THR	N-CA-C	5.72	126.44	111.00
2	AA	2114	A	N9-C1'-C2'	5.72	121.43	114.00
2	AA	2364	C	O4'-C1'-N1	5.72	112.78	108.20
1	AB	44	G	N9-C1'-C2'	-5.71	105.72	112.00
2	AA	746	A	C1'-O4'-C4'	-5.71	105.33	109.90
2	AA	901	A	N9-C1'-C2'	-5.71	105.72	112.00
6	AF	224	ALA	N-CA-C	-5.71	95.59	111.00
6	AF	54	LEU	C-N-CA	5.70	135.95	121.70
35	BB	74	C	O4'-C4'-C3'	-5.70	98.30	104.00
2	AA	390	A	C5'-C4'-O4'	-5.70	102.26	109.10
2	AA	776	G	C2'-C3'-O3'	5.70	122.81	113.70
2	AA	2777	G	C5'-C4'-O4'	5.69	115.93	109.10
13	AN	30	ARG	N-CA-C	5.69	126.37	111.00
34	BA	656	C	N1-C1'-C2'	-5.69	105.74	112.00
35	BB	71	G	N3-C4-C5	-5.69	125.75	128.60
2	AA	204	A	N9-C1'-C2'	5.69	121.40	114.00
2	AA	2061	G	N9-C1'-C2'	5.69	121.40	114.00
2	AA	1557	C	N1-C1'-C2'	5.69	121.40	114.00
2	AA	1706	U	N1-C1'-C2'	5.69	121.39	114.00
34	BA	1302	U	N1-C1'-C2'	5.69	121.39	114.00
15	AP	73	GLN	N-CA-C	5.68	126.35	111.00
2	AA	1036	G	N9-C1'-C2'	-5.68	105.75	112.00
2	AA	983	A	C4'-C3'-C2'	-5.68	96.92	102.60
15	AP	31	PHE	N-CA-C	5.67	126.31	111.00
34	BA	785	G	O5'-P-OP1	-5.67	100.60	105.70
2	AA	913	U	N1-C1'-C2'	5.67	121.36	114.00
2	AA	1379	A	O4'-C1'-N9	-5.66	103.67	108.20
32	A8	14	ILE	N-CA-C	5.66	126.28	111.00
32	A8	9	MET	CB-CG-SD	5.66	129.37	112.40
32	A8	32	GLN	N-CA-C	-5.65	95.74	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	AA	2676	C	N1-C1'-C2'	-5.65	105.78	112.00
35	BC	1	G	OP1-P-OP2	-5.65	111.13	119.60
2	AA	917	A	C8-N9-C1'	-5.65	117.53	127.70
4	AD	81	GLU	N-CA-C	-5.64	95.76	111.00
4	AD	234	HIS	N-CA-C	5.64	126.23	111.00
2	AA	2501	C	N1-C1'-C2'	5.64	121.33	114.00
2	AA	1750	G	C5'-C4'-C3'	5.64	125.02	116.00
34	BA	647	C	C5'-C4'-C3'	-5.64	106.98	116.00
2	AA	1105	U	N1-C1'-C2'	5.63	121.33	114.00
2	AA	1742	C	O4'-C1'-N1	5.63	112.70	108.20
6	AF	55	ARG	N-CA-C	5.63	126.19	111.00
6	AF	218	VAL	N-CA-C	-5.63	95.81	111.00
10	AK	147	GLU	N-CA-C	-5.63	95.81	111.00
2	AA	1544	C	O4'-C4'-C3'	-5.62	98.38	104.00
52	BT	22	LEU	CA-CB-CG	-5.62	102.36	115.30
2	AA	728	G	N9-C1'-C2'	5.62	121.31	114.00
34	BA	484	G	N9-C1'-C2'	5.62	121.30	114.00
2	AA	99	U	N1-C1'-C2'	-5.61	105.83	112.00
2	AA	1681	G	O4'-C1'-N9	5.61	112.69	108.20
2	AA	1420	U	N1-C1'-C2'	5.61	121.29	114.00
4	AD	216	ALA	N-CA-C	5.61	126.13	111.00
2	AA	1219	G	N9-C1'-C2'	5.60	121.28	114.00
2	AA	1448	G	N9-C1'-C2'	5.60	121.28	114.00
40	BH	12	LEU	CA-CB-CG	5.60	128.18	115.30
34	BA	1506	U	C2'-C3'-O3'	-5.60	97.19	109.50
2	AA	1545	A	N9-C1'-C2'	5.59	121.27	114.00
2	AA	1696	G	OP2-P-O3'	5.59	117.50	105.20
5	AE	66	GLU	N-CA-C	-5.59	95.90	111.00
2	AA	1607	C	N1-C1'-C2'	-5.59	105.85	112.00
2	AA	1970	A	N9-C1'-C2'	5.59	121.27	114.00
5	AE	112	LEU	CA-CB-CG	5.59	128.15	115.30
35	BB	38	A	OP1-P-O3'	5.59	117.49	105.20
35	BB	16	U	O5'-P-OP2	-5.58	100.67	105.70
1	AB	74	U	C1'-O4'-C4'	-5.58	105.44	109.90
2	AA	2398	U	N1-C1'-C2'	-5.58	105.86	112.00
2	AA	554	U	N1-C1'-C2'	5.58	121.25	114.00
34	BA	1279	A	N9-C1'-C2'	5.58	121.25	114.00
49	BQ	24	CYS	CA-CB-SG	5.58	124.04	114.00
10	AK	140	THR	N-CA-C	-5.57	95.95	111.00
35	BB	3	G	O4'-C1'-N9	5.57	112.66	108.20
2	AA	2115	G	N9-C1'-C2'	-5.57	105.87	112.00
4	AD	163	VAL	N-CA-C	-5.57	95.97	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	AA	737	C	O4'-C1'-N1	5.57	112.65	108.20
2	AA	1625	C	O4'-C4'-C3'	5.56	110.55	106.10
34	BA	1499	A	C5'-C4'-O4'	5.56	115.78	109.10
2	AA	775	G	N3-C4-N9	5.56	129.34	126.00
34	BA	774	G	N9-C1'-C2'	-5.56	105.88	112.00
35	BB	62	A	N9-C1'-C2'	5.56	121.23	114.00
2	AA	1561	G	O5'-P-OP1	-5.56	100.70	105.70
2	AA	148	C	C5'-C4'-O4'	5.56	115.77	109.10
2	AA	1670	C	C2'-C3'-O3'	5.56	122.59	113.70
5	AE	312	ARG	N-CA-C	-5.56	96.00	111.00
35	BB	18	G	N9-C4-C5	5.56	107.62	105.40
2	AA	585	G	C5'-C4'-O4'	-5.55	102.44	109.10
35	BB	11	C	OP1-P-O3'	5.55	117.42	105.20
2	AA	2018	G	N9-C1'-C2'	-5.55	105.90	112.00
2	AA	2137	C	N1-C1'-C2'	5.55	121.22	114.00
2	AA	1175	U	N1-C1'-C2'	5.55	121.21	114.00
2	AA	676	A	N9-C1'-C2'	5.55	121.21	114.00
2	AA	2733	A	O4'-C4'-C3'	-5.55	98.45	104.00
14	AO	74	THR	N-CA-C	-5.55	96.03	111.00
34	BA	164	U	O4'-C1'-N1	5.55	112.64	108.20
3	AC	128	GLY	N-CA-C	-5.54	99.24	113.10
35	BB	39	U	N3-C2-O2	-5.54	118.32	122.20
2	AA	1782	C	C5'-C4'-O4'	5.54	115.75	109.10
35	BB	38	A	O3'-P-O5'	-5.54	93.48	104.00
44	BL	64	THR	N-CA-C	-5.54	96.05	111.00
2	AA	2614	A	C1'-O4'-C4'	-5.53	105.47	109.90
34	BA	810	C	C1'-O4'-C4'	-5.53	105.47	109.90
29	A5	36	CYS	CA-CB-SG	-5.53	104.05	114.00
35	BB	72	C	C4'-C3'-C2'	5.53	108.13	102.60
35	BB	15	G	C5'-C4'-C3'	-5.53	107.15	116.00
34	BA	10	A	N9-C1'-C2'	-5.53	105.92	112.00
2	AA	983	A	C3'-C2'-C1'	5.52	105.92	101.50
34	BA	31	G	C1'-O4'-C4'	-5.52	105.48	109.90
34	BA	1091	U	O4'-C4'-C3'	-5.52	98.48	104.00
5	AE	79	ARG	N-CA-C	5.52	125.90	111.00
2	AA	1758	G	N9-C1'-C2'	5.52	121.17	114.00
35	BB	37	G	O5'-P-OP2	5.51	117.32	110.70
35	BB	32	C	C5'-C4'-C3'	-5.51	107.19	116.00
6	AF	197	SER	N-CA-C	5.51	125.87	111.00
2	AA	2042	A	C5'-C4'-O4'	5.50	115.71	109.10
34	BA	578	C	N1-C1'-C2'	-5.50	105.95	112.00
51	BS	63	GLY	N-CA-C	5.50	126.85	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	AA	147	U	N1-C1'-C2'	5.50	121.15	114.00
35	BB	16	U	O5'-P-OP1	5.50	117.30	110.70
35	BB	34	G	O5'-P-OP1	5.50	117.30	110.70
2	AA	1083	U	OP2-P-O3'	5.49	117.28	105.20
2	AA	1778	U	O4'-C1'-N1	5.49	112.59	108.20
39	BG	129	ASN	N-CA-C	-5.49	96.19	111.00
2	AA	2493	U	O5'-P-OP1	-5.48	100.77	105.70
35	BB	40	C	O4'-C1'-C2'	-5.47	100.33	105.80
34	BA	590	C	N1-C1'-C2'	-5.47	105.98	112.00
2	AA	1991	U	N1-C1'-C2'	-5.47	105.99	112.00
2	AA	271(C)	U	N1-C1'-C2'	5.46	121.10	114.00
2	AA	2601	C	OP2-P-O3'	5.46	117.21	105.20
5	AE	245	ARG	N-CA-C	5.46	125.75	111.00
35	BB	33	U	C2'-C3'-O3'	5.46	122.44	113.70
34	BA	576	G	O4'-C1'-N9	5.46	112.57	108.20
2	AA	2224	G	C5'-C4'-C3'	-5.46	107.27	116.00
4	AD	182	MET	N-CA-C	5.46	125.73	111.00
17	AR	13	ILE	C-N-CA	5.46	135.34	121.70
26	A2	63	HIS	N-CA-C	-5.45	96.27	111.00
18	AS	25	ARG	N-CA-C	5.45	125.71	111.00
21	AV	72	ASP	N-CA-C	5.45	125.71	111.00
34	BA	1129	C	N1-C1'-C2'	5.45	121.08	114.00
2	AA	2809	A	O4'-C1'-N9	-5.45	103.84	108.20
35	BB	18	G	N1-C2-N2	5.45	121.10	116.20
2	AA	624	C	N1-C1'-C2'	-5.44	106.01	112.00
34	BA	173	U	OP1-P-O3'	5.44	117.17	105.20
2	AA	972	G	OP2-P-O3'	5.44	117.17	105.20
2	AA	284	U	N1-C1'-C2'	5.44	121.07	114.00
34	BA	371	G	C5'-C4'-O4'	5.44	115.62	109.10
38	BF	20	SER	N-CA-C	-5.43	96.33	111.00
5	AE	224	GLY	N-CA-C	5.43	126.68	113.10
2	AA	1199	U	O4'-C1'-N1	5.43	112.54	108.20
2	AA	775	G	C4-N9-C1'	5.42	133.55	126.50
2	AA	1942	C	N1-C1'-C2'	5.42	121.05	114.00
25	A1	76	TYR	CA-CB-CG	-5.42	103.09	113.40
34	BA	661	G	C5'-C4'-C3'	-5.42	107.32	116.00
34	BA	203	U	N1-C1'-C2'	5.42	121.05	114.00
2	AA	646	A	N9-C1'-C2'	5.42	121.04	114.00
2	AA	2054	A	N1-C6-N6	5.42	121.85	118.60
34	BA	190(I)	G	N9-C1'-C2'	-5.42	106.04	112.00
34	BA	190(H)	G	C5'-C4'-O4'	5.41	115.60	109.10
35	BB	40	C	C5'-C4'-C3'	-5.41	107.34	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	AA	830	G	OP1-P-O3'	5.41	117.10	105.20
11	AL	57	VAL	N-CA-C	-5.41	96.40	111.00
34	BA	1481	U	O4'-C1'-N1	5.41	112.53	108.20
2	AA	1229	G	C5'-C4'-C3'	5.40	124.64	116.00
26	A2	13	ARG	N-CA-C	-5.40	96.42	111.00
6	AF	65	ARG	N-CA-C	5.40	125.57	111.00
43	BK	70	GLN	N-CA-C	5.40	125.57	111.00
2	AA	2042	A	O4'-C4'-C3'	-5.39	98.61	104.00
27	A3	41	ARG	N-CA-C	-5.39	96.44	111.00
2	AA	1825	A	N9-C1'-C2'	-5.39	106.07	112.00
23	AX	28	LEU	CA-CB-CG	-5.39	102.91	115.30
34	BA	708	C	N1-C1'-C2'	-5.39	106.07	112.00
13	AN	84	CYS	CA-CB-SG	-5.39	104.31	114.00
29	A5	23	HIS	N-CA-C	5.39	125.55	111.00
2	AA	1991	U	C4'-C3'-O3'	5.38	123.77	113.00
2	AA	2893	G	N9-C1'-C2'	-5.38	106.08	112.00
2	AA	2364	C	C5'-C4'-C3'	5.38	124.61	116.00
2	AA	2665	A	O4'-C1'-N9	-5.38	103.90	108.20
35	BB	22	G	OP2-P-O3'	5.38	117.03	105.20
53	BU	60	GLY	N-CA-C	-5.38	99.65	113.10
2	AA	1483	G	N9-C1'-C2'	-5.37	106.09	112.00
2	AA	1673	U	C5'-C4'-O4'	5.37	115.55	109.10
34	BA	968	A	OP2-P-O3'	5.37	117.02	105.20
34	BA	1481	U	N1-C1'-C2'	5.37	120.98	114.00
35	BB	32	C	C5'-C4'-O4'	-5.37	102.66	109.10
35	BB	69	U	C5'-C4'-O4'	5.37	115.54	109.10
2	AA	1932	A	N9-C1'-C2'	-5.37	106.10	112.00
6	AF	168	ARG	N-CA-C	5.37	125.49	111.00
13	AN	76	TYR	N-CA-C	5.37	125.49	111.00
2	AA	2492	U	N1-C1'-C2'	-5.36	106.10	112.00
2	AA	738	G	N9-C1'-C2'	5.36	120.97	114.00
2	AA	2606	C	O5'-P-OP2	-5.36	100.88	105.70
34	BA	755	G	N9-C1'-C2'	-5.36	106.10	112.00
2	AA	989	G	N9-C1'-C2'	5.36	120.97	114.00
2	AA	2429	G	C5'-C4'-O4'	5.36	115.53	109.10
2	AA	1667	G	C2'-C3'-O3'	5.36	122.27	113.70
2	AA	2794	C	C3'-C2'-C1'	-5.35	97.22	101.50
2	AA	1960	A	O5'-P-OP2	-5.35	100.89	105.70
2	AA	2678	C	C5'-C4'-O4'	5.35	115.52	109.10
35	BB	62	A	O4'-C4'-C3'	-5.35	98.65	104.00
17	AR	38	ASN	C-N-CA	-5.34	108.34	121.70
2	AA	1634	A	OP1-P-O3'	5.34	116.95	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	A9	8	LYS	N-CA-C	5.34	125.43	111.00
13	AN	24	VAL	N-CA-C	-5.34	96.58	111.00
11	AL	68	PHE	N-CA-C	5.34	125.42	111.00
11	AL	69	ILE	N-CA-C	5.34	125.42	111.00
27	A3	21	LEU	CA-CB-CG	-5.34	103.02	115.30
7	AG	100	ASP	N-CA-C	5.34	125.41	111.00
4	AD	118	GLY	N-CA-C	5.33	126.43	113.10
2	AA	1827	C	O5'-P-OP1	-5.33	100.90	105.70
2	AA	1785	A	C4-N9-C1'	5.33	135.88	126.30
2	AA	2150	U	C1'-O4'-C4'	-5.33	105.64	109.90
2	AA	2425	A	OP2-P-O3'	5.33	116.92	105.20
2	AA	2510	C	N1-C1'-C2'	-5.33	106.14	112.00
35	BB	47	U	O5'-P-OP2	-5.33	100.91	105.70
35	BB	37	G	OP1-P-O3'	5.32	116.91	105.20
2	AA	1140	C	C5'-C4'-C3'	5.32	124.51	116.00
2	AA	1626	G	N9-C1'-C2'	5.32	120.92	114.00
25	A1	68	GLY	N-CA-C	5.32	126.40	113.10
2	AA	687	C	N3-C2-O2	-5.32	118.18	121.90
51	BS	78	GLY	N-CA-C	-5.32	99.80	113.10
34	BA	760	G	N9-C1'-C2'	-5.32	106.15	112.00
2	AA	1903	G	N9-C1'-C2'	-5.32	106.15	112.00
2	AA	1931	U	N1-C1'-C2'	-5.32	106.15	112.00
2	AA	192	C	N1-C1'-C2'	-5.31	106.16	112.00
25	A1	115	ASN	CB-CA-C	5.31	121.03	110.40
35	BB	69	U	N1-C1'-C2'	-5.31	106.16	112.00
5	AE	248	SER	N-CA-C	-5.31	96.67	111.00
2	AA	438	G	N9-C1'-C2'	-5.30	106.17	112.00
2	AA	774	A	C5-C6-N6	-5.30	119.46	123.70
43	BK	111	ILE	CB-CA-C	-5.30	100.99	111.60
35	BB	24	G	C5'-C4'-C3'	-5.30	107.52	116.00
2	AA	832	G	C5'-C4'-O4'	5.30	115.46	109.10
14	AO	109	LEU	CA-CB-CG	5.30	127.49	115.30
35	BB	46	G	N9-C4-C5	-5.30	103.28	105.40
35	BC	21	A	O4'-C1'-N9	5.30	112.44	108.20
2	AA	698	C	N1-C1'-C2'	5.30	120.89	114.00
2	AA	1142	U	O4'-C4'-C3'	-5.29	98.71	104.00
35	BB	51	G	N9-C4-C5	5.29	107.52	105.40
2	AA	296	C	O4'-C4'-C3'	-5.29	98.71	104.00
2	AA	1991	U	C4'-C3'-C2'	-5.29	97.31	102.60
45	BM	61	GLU	N-CA-C	-5.29	96.71	111.00
2	AA	2121	G	O4'-C4'-C3'	-5.29	98.71	104.00
2	AA	1673	U	N1-C1'-C2'	5.29	120.87	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	AE	200	ASP	N-CA-C	-5.29	96.73	111.00
50	BR	45	VAL	N-CA-C	-5.29	96.73	111.00
34	BA	270	A	C5'-C4'-C3'	-5.28	107.55	116.00
16	AQ	107	ASN	N-CA-C	5.28	125.25	111.00
2	AA	1521	G	N9-C1'-C2'	5.28	120.86	114.00
2	AA	296	C	N1-C1'-C2'	-5.27	106.20	112.00
36	B1	49	A	O5'-P-OP1	5.27	117.03	110.70
38	BF	198	VAL	CB-CA-C	-5.27	101.38	111.40
38	BF	94	LEU	CA-CB-CG	5.27	127.42	115.30
2	AA	1191	G	N9-C1'-C2'	-5.27	106.20	112.00
34	BA	785	G	C5'-C4'-C3'	-5.27	107.57	116.00
1	AB	75	G	O4'-C1'-N9	5.26	112.41	108.20
2	AA	282	A	C3'-C2'-C1'	-5.26	97.29	101.50
50	BR	66	LEU	CA-CB-CG	-5.26	103.19	115.30
2	AA	1249	U	C5'-C4'-O4'	-5.26	102.78	109.10
2	AA	70	G	N9-C1'-C2'	5.26	120.84	114.00
2	AA	2626	C	N1-C1'-C2'	-5.26	106.21	112.00
2	AA	2641	G	C5'-C4'-C3'	5.26	124.42	116.00
2	AA	866	A	N9-C1'-C2'	-5.26	106.22	112.00
25	A1	85	ARG	N-CA-C	-5.26	96.80	111.00
2	AA	535	C	N1-C1'-C2'	-5.26	106.22	112.00
2	AA	331	A	C2'-C3'-O3'	5.26	122.11	113.70
15	AP	35	ASN	N-CA-C	5.26	125.19	111.00
17	AR	11	THR	CA-C-N	-5.26	105.64	117.20
35	BB	34	G	C4-N9-C1'	-5.26	119.67	126.50
14	AO	94	ARG	N-CA-C	5.25	125.18	111.00
34	BA	529	G	N9-C1'-C2'	-5.25	106.23	112.00
2	AA	71	A	OP2-P-O3'	5.24	116.74	105.20
2	AA	1372	U	C2-N3-C4	-5.24	123.86	127.00
15	AP	92	VAL	N-CA-C	5.24	125.15	111.00
34	BA	884	U	N1-C1'-C2'	5.24	120.81	114.00
55	BW	36	LEU	CA-CB-CG	-5.24	103.26	115.30
42	BJ	148	ASN	N-CA-C	-5.24	96.86	111.00
15	AP	72	VAL	N-CA-C	5.23	125.13	111.00
34	BA	197	A	O4'-C1'-N9	-5.23	104.01	108.20
34	BA	659	U	C1'-O4'-C4'	-5.23	105.71	109.90
35	BB	33	U	O4'-C1'-C2'	-5.23	100.57	105.80
2	AA	1132	A	C5'-C4'-O4'	5.23	115.37	109.10
35	BB	41	U	C5-C6-N1	5.22	125.31	122.70
2	AA	2708	G	OP2-P-O3'	5.22	116.69	105.20
2	AA	2195	C	C3'-C2'-C1'	5.22	105.68	101.50
24	A0	16	HIS	N-CA-CB	-5.22	101.21	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	AA	1692	U	N1-C1'-C2'	-5.21	106.27	112.00
15	AP	20	ILE	CG1-CB-CG2	5.21	122.86	111.40
28	A4	28	ARG	N-CA-C	5.21	125.06	111.00
34	BA	413	G	N9-C1'-C2'	5.21	120.77	114.00
2	AA	270(M)	U	N1-C1'-C2'	5.21	120.77	114.00
34	BA	934	C	N1-C1'-C2'	5.21	120.77	114.00
2	AA	379	G	O4'-C1'-N9	5.20	112.36	108.20
2	AA	1828	G	C2'-C3'-O3'	5.20	122.02	113.70
35	BB	15	G	O5'-P-OP1	-5.20	101.02	105.70
45	BM	60	ARG	N-CA-C	5.20	125.04	111.00
2	AA	984	A	C4'-C3'-O3'	5.20	123.39	113.00
34	BA	1059	C	N1-C1'-C2'	-5.20	106.28	112.00
35	BB	57	G	N3-C4-N9	-5.20	122.88	126.00
34	BA	511	C	N1-C1'-C2'	5.20	120.75	114.00
2	AA	2110	G	N9-C1'-C2'	5.19	120.75	114.00
13	AN	32	TYR	N-CA-C	5.19	125.01	111.00
34	BA	768	A	N9-C1'-C2'	-5.19	106.29	112.00
34	BA	249	U	C5'-C4'-C3'	5.19	124.30	116.00
52	BT	59	ILE	CB-CA-C	-5.19	101.23	111.60
2	AA	209	C	C5'-C4'-C3'	-5.18	107.71	116.00
2	AA	1156	A	N9-C1'-C2'	5.18	120.74	114.00
6	AF	46	TYR	CA-CB-CG	-5.18	103.55	113.40
4	AD	70	LYS	N-CA-C	-5.18	97.02	111.00
35	BB	71	G	C5-C6-N1	-5.18	108.91	111.50
54	BV	20	LEU	CA-CB-CG	5.18	127.21	115.30
2	AA	2580	U	C5'-C4'-O4'	-5.17	102.89	109.10
34	BA	1498	U	N1-C1'-C2'	5.17	120.73	114.00
2	AA	1976	U	O4'-C1'-N1	5.17	112.34	108.20
2	AA	2385	C	N1-C1'-C2'	5.17	120.72	114.00
2	AA	135	G	N9-C1'-C2'	-5.17	106.31	112.00
2	AA	230	U	C1'-O4'-C4'	-5.17	105.76	109.90
2	AA	387	U	O4'-C1'-N1	-5.17	104.06	108.20
5	AE	110	ARG	N-CA-C	-5.17	97.04	111.00
36	B1	59	A	C5'-C4'-C3'	5.17	124.27	116.00
2	AA	1140	C	O4'-C1'-N1	5.17	112.33	108.20
34	BA	1541	U	C4'-C3'-O3'	-5.17	98.55	109.40
2	AA	1621	U	O4'-C4'-C3'	-5.16	98.84	104.00
2	AA	2589	A	C5'-C4'-O4'	5.16	115.29	109.10
2	AA	337	C	O4'-C1'-N1	5.16	112.33	108.20
2	AA	869	G	N9-C1'-C2'	-5.16	106.32	112.00
2	AA	2238	G	C1'-O4'-C4'	-5.16	105.77	109.90
2	AA	1668	A	N9-C1'-C2'	5.16	120.70	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	AN	81	GLU	N-CA-C	5.16	124.92	111.00
15	AP	30	GLN	N-CA-C	5.16	124.92	111.00
34	BA	388	G	C2'-C3'-O3'	5.16	121.95	113.70
35	BB	45	G	N3-C4-N9	5.15	129.09	126.00
2	AA	1916	A	C5'-C4'-O4'	-5.15	102.92	109.10
34	BA	752	G	C1'-O4'-C4'	-5.15	105.78	109.90
34	BA	1310	G	N9-C1'-C2'	-5.15	106.33	112.00
7	AG	77	ASP	N-CA-CB	-5.15	101.33	110.60
2	AA	971	C	C1'-O4'-C4'	-5.15	105.78	109.90
10	AK	135	PRO	N-CA-C	5.15	125.48	112.10
4	AD	82	TYR	CA-CB-CG	5.15	123.18	113.40
2	AA	262	A	C5'-C4'-C3'	-5.14	107.77	116.00
2	AA	1482	U	C2'-C3'-O3'	5.14	121.93	113.70
2	AA	1455	G	C3'-C2'-C1'	-5.14	97.39	101.50
2	AA	1477	A	N9-C1'-C2'	5.14	120.69	114.00
2	AA	2733	A	O4'-C1'-N9	5.14	112.31	108.20
2	AA	1104	C	C5'-C4'-C3'	5.14	124.23	116.00
2	AA	2589	A	C1'-O4'-C4'	-5.14	105.79	109.90
25	A1	89	ASP	N-CA-C	5.14	124.88	111.00
2	AA	797	C	C3'-C2'-C1'	-5.14	97.39	101.50
2	AA	2416	C	C5'-C4'-O4'	-5.14	102.93	109.10
2	AA	528	A	O4'-C1'-C2'	-5.14	100.66	105.80
34	BA	288	A	N9-C1'-C2'	-5.14	106.35	112.00
34	BA	1192	C	C2-N1-C1'	5.14	124.45	118.80
2	AA	1088	A	O4'-C1'-N9	5.14	112.31	108.20
32	A8	17	THR	N-CA-C	-5.14	97.13	111.00
35	BC	58	A	C2'-C3'-O3'	5.14	121.92	113.70
2	AA	1956	U	OP1-P-O3'	5.13	116.50	105.20
2	AA	1958	C	C5'-C4'-C3'	-5.13	107.79	116.00
2	AA	2630	G	N9-C1'-C2'	5.13	120.67	114.00
2	AA	830	G	C5'-C4'-O4'	-5.13	102.94	109.10
34	BA	724	G	O5'-P-OP1	-5.13	101.08	105.70
2	AA	474	G	N9-C1'-C2'	5.13	120.67	114.00
15	AP	115	SER	N-CA-C	-5.13	97.15	111.00
4	AD	102	TYR	N-CA-C	-5.13	97.15	111.00
34	BA	243	A	C2'-C3'-O3'	5.13	121.90	113.70
2	AA	2471	C	O4'-C4'-C3'	-5.12	98.88	104.00
2	AA	2580	U	O4'-C1'-N1	5.12	112.30	108.20
2	AA	386	G	C1'-O4'-C4'	-5.12	105.80	109.90
2	AA	1607	C	C4'-C3'-C2'	-5.12	97.48	102.60
2	AA	1191	G	C5'-C4'-O4'	5.12	115.24	109.10
2	AA	2532	G	N9-C1'-C2'	5.12	120.65	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	AA	1508	A	C3'-C2'-C1'	-5.12	97.41	101.50
2	AA	191	A	O4'-C1'-N9	-5.11	104.11	108.20
2	AA	1848	A	N9-C1'-C2'	-5.11	106.38	112.00
2	AA	2077	A	C5-C6-N6	-5.11	119.61	123.70
12	AM	37	ALA	N-CA-C	-5.11	97.19	111.00
15	AP	96	GLN	N-CA-C	5.11	124.81	111.00
2	AA	572	A	O4'-C1'-N9	-5.11	104.11	108.20
2	AA	1667	G	N1-C2-N2	-5.11	111.60	116.20
2	AA	2209	C	C5'-C4'-O4'	5.11	115.23	109.10
5	AE	49	THR	N-CA-C	-5.11	97.20	111.00
2	AA	1070	A	N9-C1'-C2'	5.11	120.64	114.00
34	BA	307	C	C5'-C4'-O4'	5.11	115.23	109.10
35	BB	58	A	C2'-C3'-O3'	5.11	121.87	113.70
34	BA	955	U	N1-C1'-C2'	-5.10	106.39	112.00
38	BF	43	LEU	CA-CB-CG	5.10	127.04	115.30
2	AA	1266	G	C5'-C4'-C3'	5.10	124.16	116.00
34	BA	785	G	O4'-C1'-N9	-5.10	104.12	108.20
14	AO	83	GLU	C-N-CA	-5.09	108.97	121.70
2	AA	2000	G	O5'-P-OP1	-5.09	101.12	105.70
13	AN	63	VAL	N-CA-C	5.09	124.75	111.00
34	BA	1133	G	N9-C1'-C2'	-5.09	106.40	112.00
2	AA	1947	C	C5'-C4'-C3'	-5.09	107.86	116.00
2	AA	1944	U	N1-C1'-C2'	-5.09	106.40	112.00
15	AP	33	MET	N-CA-C	-5.09	97.26	111.00
2	AA	899	A	N9-C1'-C2'	-5.09	106.40	112.00
2	AA	1128	A	O4'-C1'-N9	5.09	112.27	108.20
35	BB	59	U	N1-C1'-C2'	5.09	120.61	114.00
2	AA	1476	C	C5'-C4'-O4'	5.08	115.20	109.10
34	BA	387	U	O4'-C1'-N1	5.08	112.26	108.20
2	AA	1796	U	C1'-O4'-C4'	-5.08	105.84	109.90
2	AA	137	C	N3-C4-N4	-5.08	114.45	118.00
34	BA	1350	A	C5'-C4'-C3'	-5.08	107.88	116.00
2	AA	1169	G	N9-C1'-C2'	-5.07	106.42	112.00
2	AA	1327	C	N1-C1'-C2'	5.07	120.59	114.00
2	AA	2210	G	N9-C1'-C2'	5.07	120.59	114.00
2	AA	1980	G	O4'-C1'-N9	-5.07	104.15	108.20
2	AA	210	C	O4'-C1'-N1	-5.06	104.15	108.20
8	AH	24	THR	N-CA-C	-5.06	97.33	111.00
33	A9	27	CYS	CA-CB-SG	-5.06	104.89	114.00
35	BB	24	G	N3-C2-N2	-5.06	116.36	119.90
2	AA	1377	G	C5'-C4'-C3'	-5.06	107.91	116.00
2	AA	699	A	N9-C1'-C2'	-5.06	106.44	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	AA	1785	A	C5-C6-N1	5.06	120.23	117.70
2	AA	1983	C	C5'-C4'-C3'	-5.06	107.91	116.00
34	BA	574	A	O5'-P-OP1	-5.06	101.15	105.70
34	BA	872	A	N9-C1'-C2'	5.05	120.57	114.00
4	AD	82	TYR	N-CA-C	-5.05	97.36	111.00
2	AA	714	U	C3'-C2'-C1'	-5.05	97.46	101.50
2	AA	1014	U	O4'-C1'-N1	5.05	112.24	108.20
2	AA	1143	A	C5'-C4'-O4'	5.05	115.16	109.10
2	AA	1925	C	C3'-C2'-C1'	-5.05	97.46	101.50
24	A0	98	LEU	CA-CB-CG	-5.05	103.69	115.30
2	AA	1476	C	C5'-C4'-C3'	5.05	124.08	116.00
2	AA	2867	G	N9-C1'-C2'	5.05	120.56	114.00
2	AA	1248	G	C2'-C3'-O3'	5.04	121.77	113.70
2	AA	808	G	C4'-C3'-O3'	-5.04	98.81	109.40
5	AE	94	ARG	N-CA-C	-5.04	97.39	111.00
34	BA	1226	C	N1-C1'-C2'	5.04	120.55	114.00
2	AA	791	C	O4'-C4'-C3'	-5.04	98.96	104.00
2	AA	1753	G	N9-C1'-C2'	-5.04	106.46	112.00
35	BB	40	C	C5-C4-N4	-5.04	116.67	120.20
2	AA	972	G	O4'-C1'-N9	5.03	112.23	108.20
35	BB	56	C	C5-C4-N4	-5.03	116.68	120.20
2	AA	584	C	OP2-P-O3'	5.03	116.27	105.20
2	AA	2686	G	C5'-C4'-C3'	-5.03	107.95	116.00
34	BA	388	G	O4'-C1'-N9	-5.03	104.17	108.20
34	BA	1013	G	N9-C1'-C2'	-5.03	106.47	112.00
34	BA	1179	A	N9-C1'-C2'	5.03	120.54	114.00
2	AA	969	U	C5'-C4'-O4'	-5.03	103.07	109.10
4	AD	108	ASN	N-CA-C	5.03	124.58	111.00
43	BK	112	LEU	CA-CB-CG	5.03	126.87	115.30
7	AG	20	LYS	N-CA-C	5.03	124.57	111.00
7	AG	54	ALA	N-CA-C	5.03	124.58	111.00
2	AA	181	A	C5'-C4'-O4'	-5.03	103.07	109.10
17	AR	22	VAL	N-CA-C	5.03	124.57	111.00
34	BA	1064	G	C5-C6-O6	-5.03	125.58	128.60
28	A4	32	HIS	N-CA-C	5.02	124.57	111.00
35	BB	42	G	C2'-C3'-O3'	5.02	121.74	113.70
35	BB	71	G	N9-C1'-C2'	5.02	120.53	114.00
17	AR	5	GLU	C-N-CA	-5.02	109.15	121.70
35	BB	34	G	N1-C2-N3	-5.02	120.89	123.90
2	AA	775	G	C3'-C2'-C1'	5.02	105.52	101.50
3	AC	33	ALA	N-CA-C	5.02	124.56	111.00
37	BE	158	LEU	N-CA-C	5.02	124.56	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	BB	52	U	C5'-C4'-C3'	-5.02	107.97	116.00
2	AA	2579	C	C3'-C2'-C1'	-5.02	97.49	101.50
2	AA	2848	G	C4'-C3'-O3'	-5.02	98.87	109.40
2	AA	945	A	C5'-C4'-C3'	5.01	124.02	116.00
13	AN	73	ASP	CB-CG-OD1	-5.01	113.79	118.30
34	BA	359	U	O4'-C4'-C3'	-5.01	98.99	104.00
5	AE	260	GLN	N-CA-C	-5.01	97.47	111.00
2	AA	2079	U	N1-C1'-C2'	-5.01	106.49	112.00
21	AV	37	LYS	N-CA-C	-5.01	97.47	111.00
2	AA	848	G	N9-C1'-C2'	-5.01	106.49	112.00
2	AA	1581	G	N9-C1'-C2'	-5.01	106.49	112.00
35	BB	62	A	O4'-C1'-N9	5.01	112.21	108.20
2	AA	1140	C	C5'-C4'-O4'	5.00	115.11	109.10
34	BA	736	C	C5'-C4'-O4'	-5.00	103.10	109.10
37	BE	104	ASN	N-CA-C	-5.00	97.49	111.00

There are no chirality outliers.

All (838) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
25	A1	24	PHE	Sidechain
25	A1	45	TYR	Sidechain
25	A1	76	TYR	Sidechain
26	A2	74	TYR	Sidechain
28	A4	67	TYR	Sidechain
30	A6	22	TYR	Sidechain
2	AA	1001	A	Sidechain
2	AA	1012	U	Sidechain
2	AA	1017	G	Sidechain
2	AA	1018	C	Sidechain
2	AA	1019	U	Sidechain
2	AA	102	G	Sidechain
2	AA	1022	G	Sidechain
2	AA	1023	U	Sidechain
2	AA	1031	G	Sidechain
2	AA	1059	G	Sidechain
2	AA	1091	G	Sidechain
2	AA	1092	C	Sidechain
2	AA	1093	G	Sidechain
2	AA	1101	U	Sidechain
2	AA	1129	A	Sidechain
2	AA	1132	A	Sidechain

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Mol	Chain	Res	Type	Group
2	AA	1133	U	Sidechain
2	AA	1139	G	Sidechain
2	AA	114	U	Sidechain
2	AA	1140	C	Sidechain
2	AA	1142	U	Sidechain
2	AA	1143	A	Sidechain
2	AA	1146	C	Sidechain
2	AA	1155	A	Sidechain
2	AA	1170	G	Sidechain
2	AA	1173	G	Sidechain
2	AA	1183	G	Sidechain
2	AA	1187	G	Sidechain
2	AA	119	A	Sidechain
2	AA	1195	G	Sidechain
2	AA	1198	U	Sidechain
2	AA	1199	U	Sidechain
2	AA	1206	G	Sidechain
2	AA	1207	C	Sidechain
2	AA	1209	G	Sidechain
2	AA	1219	G	Sidechain
2	AA	122	G	Sidechain
2	AA	1225	C	Sidechain
2	AA	1230	C	Sidechain
2	AA	1241	A	Sidechain
2	AA	1243	G	Sidechain
2	AA	1246	A	Sidechain
2	AA	1247	A	Sidechain
2	AA	1248	G	Sidechain
2	AA	125	G	Sidechain
2	AA	1257	C	Sidechain
2	AA	1266	G	Sidechain
2	AA	1271	G	Sidechain
2	AA	1274	A	Sidechain
2	AA	1275	A	Sidechain
2	AA	1300	U	Sidechain
2	AA	1301	A	Sidechain
2	AA	1310	G	Sidechain
2	AA	1323	U	Sidechain
2	AA	1324	G	Sidechain
2	AA	1329	U	Sidechain
2	AA	1333	C	Sidechain
2	AA	1344	G	Sidechain

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Mol	Chain	Res	Type	Group
2	AA	1354	A	Sidechain
2	AA	137	C	Sidechain
2	AA	137(A)	G	Sidechain
2	AA	1378	A	Sidechain
2	AA	1379	A	Sidechain
2	AA	138	G	Sidechain
2	AA	1389	G	Sidechain
2	AA	1397	U	Sidechain
2	AA	14	A	Sidechain
2	AA	1405	U	Sidechain
2	AA	1406	U	Sidechain
2	AA	1416	G	Sidechain
2	AA	1418	G	Sidechain
2	AA	142	G	Sidechain
2	AA	142(A)	A	Sidechain
2	AA	1423	G	Sidechain
2	AA	1428	C	Sidechain
2	AA	1441	G	Sidechain
2	AA	147	U	Sidechain
2	AA	1477	A	Sidechain
2	AA	1479	G	Sidechain
2	AA	1485	G	Sidechain
2	AA	1489	U	Sidechain
2	AA	1497	U	Sidechain
2	AA	1508	A	Sidechain
2	AA	1509	C	Sidechain
2	AA	1512	G	Sidechain
2	AA	1514	U	Sidechain
2	AA	1523	U	Sidechain
2	AA	1524	G	Sidechain
2	AA	1525	G	Sidechain
2	AA	1534	G	Sidechain
2	AA	1540	G	Sidechain
2	AA	1541	U	Sidechain
2	AA	1542	G	Sidechain
2	AA	1545	A	Sidechain
2	AA	1550	C	Sidechain
2	AA	1557	C	Sidechain
2	AA	1559	G	Sidechain
2	AA	1560	G	Sidechain
2	AA	1564	C	Sidechain
2	AA	1565	C	Sidechain

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Mol	Chain	Res	Type	Group
2	AA	1567	A	Sidechain
2	AA	1568	G	Sidechain
2	AA	1571	A	Sidechain
2	AA	1575	C	Sidechain
2	AA	1576	U	Sidechain
2	AA	1603	A	Sidechain
2	AA	1607	C	Sidechain
2	AA	1609	A	Sidechain
2	AA	1624	G	Sidechain
2	AA	1625	C	Sidechain
2	AA	1626	G	Sidechain
2	AA	1629	U	Sidechain
2	AA	1639	U	Sidechain
2	AA	1640	C	Sidechain
2	AA	1642	G	Sidechain
2	AA	1643	G	Sidechain
2	AA	1649	G	Sidechain
2	AA	1658	C	Sidechain
2	AA	1661	G	Sidechain
2	AA	1663	C	Sidechain
2	AA	1668	A	Sidechain
2	AA	1670	C	Sidechain
2	AA	1677	A	Sidechain
2	AA	1687	G	Sidechain
2	AA	1690	A	Sidechain
2	AA	1695	G	Sidechain
2	AA	1703	G	Sidechain
2	AA	1706	U	Sidechain
2	AA	1709	U	Sidechain
2	AA	1712	C	Sidechain
2	AA	1716	U	Sidechain
2	AA	1726	G	Sidechain
2	AA	1728	G	Sidechain
2	AA	1731	G	Sidechain
2	AA	1734	C	Sidechain
2	AA	1735	C	Sidechain
2	AA	1742	C	Sidechain
2	AA	175	G	Sidechain
2	AA	1752	C	Sidechain
2	AA	1757	U	Sidechain
2	AA	1758	G	Sidechain
2	AA	1760	A	Sidechain

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Mol	Chain	Res	Type	Group
2	AA	1762	A	Sidechain
2	AA	1766	U	Sidechain
2	AA	1775	U	Sidechain
2	AA	1779	U	Sidechain
2	AA	1780	A	Sidechain
2	AA	1784	A	Sidechain
2	AA	1786	A	Sidechain
2	AA	1791	A	Sidechain
2	AA	1792	G	Sidechain
2	AA	1794	U	Sidechain
2	AA	1801	G	Sidechain
2	AA	1815	A	Sidechain
2	AA	1817	G	Sidechain
2	AA	1825	A	Sidechain
2	AA	1831	G	Sidechain
2	AA	1840	G	Sidechain
2	AA	1843	C	Sidechain
2	AA	1848	A	Sidechain
2	AA	1858	G	Sidechain
2	AA	188	G	Sidechain
2	AA	1884	A	Sidechain
2	AA	1902	C	Sidechain
2	AA	1911	U	Sidechain
2	AA	1917	U	Sidechain
2	AA	1918	A	Sidechain
2	AA	1919	A	Sidechain
2	AA	1928	A	Sidechain
2	AA	193	U	Sidechain
2	AA	1930	G	Sidechain
2	AA	1931	U	Sidechain
2	AA	1938	A	Sidechain
2	AA	194	G	Sidechain
2	AA	1942	C	Sidechain
2	AA	1944	U	Sidechain
2	AA	1955	U	Sidechain
2	AA	1957	C	Sidechain
2	AA	1967	C	Sidechain
2	AA	1970	A	Sidechain
2	AA	1978	A	Sidechain
2	AA	1979	C	Sidechain
2	AA	1981	A	Sidechain
2	AA	1983	C	Sidechain

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Mol	Chain	Res	Type	Group
2	AA	1989	G	Sidechain
2	AA	199	A	Sidechain
2	AA	1990	C	Sidechain
2	AA	1991	U	Sidechain
2	AA	1992	G	Sidechain
2	AA	1994	C	Sidechain
2	AA	200	U	Sidechain
2	AA	2007	C	Sidechain
2	AA	2016	U	Sidechain
2	AA	2017	U	Sidechain
2	AA	2019	A	Sidechain
2	AA	202	U	Sidechain
2	AA	2020	A	Sidechain
2	AA	2023	G	Sidechain
2	AA	2026	C	Sidechain
2	AA	2027	G	Sidechain
2	AA	2038	G	Sidechain
2	AA	204	A	Sidechain
2	AA	2042	A	Sidechain
2	AA	2045	C	Sidechain
2	AA	2047	U	Sidechain
2	AA	2049	G	Sidechain
2	AA	2051	A	Sidechain
2	AA	2053	G	Sidechain
2	AA	2060	A	Sidechain
2	AA	2062	A	Sidechain
2	AA	2063	C	Sidechain
2	AA	2066	C	Sidechain
2	AA	2068	U	Sidechain
2	AA	2069	G	Sidechain
2	AA	2074	U	Sidechain
2	AA	2075	U	Sidechain
2	AA	2076	U	Sidechain
2	AA	2085	C	Sidechain
2	AA	2086	U	Sidechain
2	AA	2088	G	Sidechain
2	AA	209	C	Sidechain
2	AA	2093	G	Sidechain
2	AA	2098	U	Sidechain
2	AA	2114	A	Sidechain
2	AA	2119	A	Sidechain
2	AA	2125	G	Sidechain

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Mol	Chain	Res	Type	Group
2	AA	2126	A	Sidechain
2	AA	2144	U	Sidechain
2	AA	2150	U	Sidechain
2	AA	2174	C	Sidechain
2	AA	2189	U	Sidechain
2	AA	2213	U	Sidechain
2	AA	2232	U	Sidechain
2	AA	2244	U	Sidechain
2	AA	2246	G	Sidechain
2	AA	2249	U	Sidechain
2	AA	2250	G	Sidechain
2	AA	2259	G	Sidechain
2	AA	2267	A	Sidechain
2	AA	2274	A	Sidechain
2	AA	2275	C	Sidechain
2	AA	2277	G	Sidechain
2	AA	2283	C	Sidechain
2	AA	2297	C	Sidechain
2	AA	2299	G	Sidechain
2	AA	230	U	Sidechain
2	AA	2320	A	Sidechain
2	AA	2326	C	Sidechain
2	AA	233	A	Sidechain
2	AA	2330	G	Sidechain
2	AA	2331	G	Sidechain
2	AA	2332	U	Sidechain
2	AA	2334	G	Sidechain
2	AA	2344	U	Sidechain
2	AA	2348	U	Sidechain
2	AA	2372	G	Sidechain
2	AA	2376	A	Sidechain
2	AA	2384	G	Sidechain
2	AA	2385	C	Sidechain
2	AA	2395	C	Sidechain
2	AA	2398	U	Sidechain
2	AA	2399	G	Sidechain
2	AA	2402	C	Sidechain
2	AA	241	A	Sidechain
2	AA	2416	C	Sidechain
2	AA	2417	C	Sidechain
2	AA	2420	C	Sidechain
2	AA	2424	C	Sidechain

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Mol	Chain	Res	Type	Group
2	AA	2425	A	Sidechain
2	AA	2427	C	Sidechain
2	AA	2432	A	Sidechain
2	AA	2433	A	Sidechain
2	AA	2434	A	Sidechain
2	AA	2435	A	Sidechain
2	AA	2444	G	Sidechain
2	AA	2454	G	Sidechain
2	AA	2459	A	Sidechain
2	AA	2462	U	Sidechain
2	AA	2463	C	Sidechain
2	AA	2464	C	Sidechain
2	AA	2465	C	Sidechain
2	AA	2466	C	Sidechain
2	AA	2467	C	Sidechain
2	AA	2468	G	Sidechain
2	AA	2477	C	Sidechain
2	AA	2480	C	Sidechain
2	AA	2483	C	Sidechain
2	AA	2486	G	Sidechain
2	AA	2491	U	Sidechain
2	AA	2500	U	Sidechain
2	AA	2503	A	Sidechain
2	AA	2504	U	Sidechain
2	AA	2506	U	Sidechain
2	AA	2508	G	Sidechain
2	AA	251	A	Sidechain
2	AA	2510	C	Sidechain
2	AA	2514	U	Sidechain
2	AA	2516	G	Sidechain
2	AA	2525	G	Sidechain
2	AA	2527	C	Sidechain
2	AA	2530	A	Sidechain
2	AA	2547	U	Sidechain
2	AA	2548	G	Sidechain
2	AA	2553	G	Sidechain
2	AA	2555	U	Sidechain
2	AA	2563	U	Sidechain
2	AA	2566	A	Sidechain
2	AA	2572	A	Sidechain
2	AA	2576	G	Sidechain
2	AA	2584	U	Sidechain

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Mol	Chain	Res	Type	Group
2	AA	2585	U	Sidechain
2	AA	2588	G	Sidechain
2	AA	2589	A	Sidechain
2	AA	259	G	Sidechain
2	AA	2590	A	Sidechain
2	AA	2595	G	Sidechain
2	AA	2599	G	Sidechain
2	AA	2603	G	Sidechain
2	AA	2604	U	Sidechain
2	AA	2605	U	Sidechain
2	AA	2607	G	Sidechain
2	AA	2619	C	Sidechain
2	AA	2623	G	Sidechain
2	AA	2630	G	Sidechain
2	AA	2644	G	Sidechain
2	AA	2645	G	Sidechain
2	AA	2656	U	Sidechain
2	AA	2668	G	Sidechain
2	AA	2672	G	Sidechain
2	AA	268	C	Sidechain
2	AA	2682	U	Sidechain
2	AA	2685	G	Sidechain
2	AA	2686	G	Sidechain
2	AA	2687	U	Sidechain
2	AA	2689	U	Sidechain
2	AA	2692	C	Sidechain
2	AA	2696	U	Sidechain
2	AA	270	A	Sidechain
2	AA	270(S)	G	Sidechain
2	AA	2701	C	Sidechain
2	AA	2703	C	Sidechain
2	AA	2707	G	Sidechain
2	AA	2708	G	Sidechain
2	AA	271(C)	U	Sidechain
2	AA	2724	C	Sidechain
2	AA	2726	U	Sidechain
2	AA	2727	G	Sidechain
2	AA	2728	U	Sidechain
2	AA	2732	G	Sidechain
2	AA	2733	A	Sidechain
2	AA	2739	U	Sidechain
2	AA	2744	G	Sidechain

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Mol	Chain	Res	Type	Group
2	AA	2758	A	Sidechain
2	AA	2767	C	Sidechain
2	AA	2768	C	Sidechain
2	AA	2777	G	Sidechain
2	AA	2779	U	Sidechain
2	AA	2781	A	Sidechain
2	AA	2783	G	Sidechain
2	AA	2792	G	Sidechain
2	AA	2793	G	Sidechain
2	AA	280	C	Sidechain
2	AA	2804	C	Sidechain
2	AA	2808	U	Sidechain
2	AA	2810	A	Sidechain
2	AA	2825	C	Sidechain
2	AA	2826	A	Sidechain
2	AA	2832	U	Sidechain
2	AA	2833	G	Sidechain
2	AA	2834	G	Sidechain
2	AA	284	U	Sidechain
2	AA	2845	G	Sidechain
2	AA	2848	G	Sidechain
2	AA	2854	G	Sidechain
2	AA	2863	C	Sidechain
2	AA	2865	U	Sidechain
2	AA	287	C	Sidechain
2	AA	2887	U	Sidechain
2	AA	2889	C	Sidechain
2	AA	2895	U	Sidechain
2	AA	2898	U	Sidechain
2	AA	292	C	Sidechain
2	AA	296	C	Sidechain
2	AA	31	C	Sidechain
2	AA	317	G	Sidechain
2	AA	329	G	Sidechain
2	AA	349	G	Sidechain
2	AA	353	G	Sidechain
2	AA	358	U	Sidechain
2	AA	362	U	Sidechain
2	AA	363(E)	U	Sidechain
2	AA	385	C	Sidechain
2	AA	386	G	Sidechain
2	AA	389	G	Sidechain

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Mol	Chain	Res	Type	Group
2	AA	403	U	Sidechain
2	AA	404	C	Sidechain
2	AA	431	U	Sidechain
2	AA	442	G	Sidechain
2	AA	444(A)	A	Sidechain
2	AA	446	G	Sidechain
2	AA	448	U	Sidechain
2	AA	45	G	Sidechain
2	AA	458	G	Sidechain
2	AA	459	U	Sidechain
2	AA	461	C	Sidechain
2	AA	464	U	Sidechain
2	AA	468	G	Sidechain
2	AA	470	A	Sidechain
2	AA	473	G	Sidechain
2	AA	474	G	Sidechain
2	AA	484	C	Sidechain
2	AA	49	A	Sidechain
2	AA	508	G	Sidechain
2	AA	51	G	Sidechain
2	AA	511	U	Sidechain
2	AA	513	A	Sidechain
2	AA	514	A	Sidechain
2	AA	515	A	Sidechain
2	AA	530	G	Sidechain
2	AA	54	G	Sidechain
2	AA	544	C	Sidechain
2	AA	549	G	Sidechain
2	AA	554	U	Sidechain
2	AA	560	C	Sidechain
2	AA	566	U	Sidechain
2	AA	567	A	Sidechain
2	AA	573	G	Sidechain
2	AA	574	C	Sidechain
2	AA	575	A	Sidechain
2	AA	576	U	Sidechain
2	AA	58	G	Sidechain
2	AA	583	G	Sidechain
2	AA	584	C	Sidechain
2	AA	59	U	Sidechain
2	AA	599	G	Sidechain
2	AA	605	C	Sidechain

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Mol	Chain	Res	Type	Group
2	AA	614	U	Sidechain
2	AA	615	G	Sidechain
2	AA	616	A	Sidechain
2	AA	617	G	Sidechain
2	AA	623	G	Sidechain
2	AA	63	U	Sidechain
2	AA	638	G	Sidechain
2	AA	639	U	Sidechain
2	AA	642	G	Sidechain
2	AA	646	A	Sidechain
2	AA	649	G	Sidechain
2	AA	650	C	Sidechain
2	AA	656	G	Sidechain
2	AA	661	C	Sidechain
2	AA	670	A	Sidechain
2	AA	679	C	Sidechain
2	AA	684	G	Sidechain
2	AA	688	U	Sidechain
2	AA	69	C	Sidechain
2	AA	70	G	Sidechain
2	AA	706	A	Sidechain
2	AA	711	G	Sidechain
2	AA	713	G	Sidechain
2	AA	714	U	Sidechain
2	AA	715	G	Sidechain
2	AA	717	G	Sidechain
2	AA	740	U	Sidechain
2	AA	743	G	Sidechain
2	AA	746	A	Sidechain
2	AA	748	G	Sidechain
2	AA	751	A	Sidechain
2	AA	752	A	Sidechain
2	AA	762	U	Sidechain
2	AA	767	U	Sidechain
2	AA	769	G	Sidechain
2	AA	771	G	Sidechain
2	AA	787	U	Sidechain
2	AA	791	C	Sidechain
2	AA	795	C	Sidechain
2	AA	801	G	Sidechain
2	AA	803	U	Sidechain
2	AA	805	G	Sidechain

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Mol	Chain	Res	Type	Group
2	AA	810	U	Sidechain
2	AA	819	A	Sidechain
2	AA	822	U	Sidechain
2	AA	828	U	Sidechain
2	AA	829	A	Sidechain
2	AA	83	G	Sidechain
2	AA	830	G	Sidechain
2	AA	833	U	Sidechain
2	AA	843	G	Sidechain
2	AA	845	G	Sidechain
2	AA	849	A	Sidechain
2	AA	858	U	Sidechain
2	AA	864	G	Sidechain
2	AA	865	C	Sidechain
2	AA	871	U	Sidechain
2	AA	875	G	Sidechain
2	AA	899	A	Sidechain
2	AA	90	U	Sidechain
2	AA	906	G	Sidechain
2	AA	908	C	Sidechain
2	AA	910	A	Sidechain
2	AA	911	A	Sidechain
2	AA	913	U	Sidechain
2	AA	915	C	Sidechain
2	AA	917	A	Sidechain
2	AA	918	A	Sidechain
2	AA	920	G	Sidechain
2	AA	923	C	Sidechain
2	AA	924	C	Sidechain
2	AA	930	U	Sidechain
2	AA	932	G	Sidechain
2	AA	937	U	Sidechain
2	AA	944	G	Sidechain
2	AA	945	A	Sidechain
2	AA	954	G	Sidechain
2	AA	955	C	Sidechain
2	AA	960	A	Sidechain
2	AA	969	U	Sidechain
2	AA	970	C	Sidechain
2	AA	972	G	Sidechain
2	AA	975	G	Sidechain
2	AA	978	G	Sidechain

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Mol	Chain	Res	Type	Group
2	AA	980	A	Sidechain
2	AA	983	A	Sidechain
2	AA	984	A	Sidechain
2	AA	987	G	Sidechain
2	AA	989	G	Sidechain
2	AA	99	U	Sidechain
2	AA	996	A	Sidechain
1	AB	101	A	Sidechain
1	AB	104	A	Sidechain
1	AB	105	G	Sidechain
1	AB	12	C	Sidechain
1	AB	18	G	Sidechain
1	AB	34	U	Sidechain
1	AB	39	A	Sidechain
1	AB	44	G	Sidechain
1	AB	54	G	Sidechain
1	AB	55	U	Sidechain
1	AB	59	A	Sidechain
1	AB	77	U	Sidechain
1	AB	87	G	Sidechain
1	AB	98	G	Sidechain
4	AD	82	TYR	Sidechain
5	AE	198	TYR	Sidechain
6	AF	46	TYR	Sidechain
7	AG	104	PHE	Sidechain
7	AG	83	PHE	Sidechain
12	AM	104	TYR	Sidechain
12	AM	109	TYR	Sidechain
13	AN	32	TYR	Sidechain
13	AN	76	TYR	Sidechain
14	AO	105	TYR	Sidechain
14	AO	125	PHE	Sidechain
16	AQ	69	TYR	Sidechain
23	AX	15	TYR	Sidechain
36	B1	48	A	Sidechain
36	B1	49	A	Sidechain
36	B1	63	C	Sidechain
36	B1	65	U	Sidechain
34	BA	10	A	Sidechain
34	BA	1003	G	Sidechain
34	BA	1012	U	Sidechain
34	BA	1036	G	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	1050	G	Sidechain
34	BA	1063	C	Sidechain
34	BA	1065	U	Sidechain
34	BA	1067	A	Sidechain
34	BA	1079	G	Sidechain
34	BA	108	G	Sidechain
34	BA	1091	U	Sidechain
34	BA	1094	G	Sidechain
34	BA	1097	C	Sidechain
34	BA	1109	C	Sidechain
34	BA	1120	G	Sidechain
34	BA	1124	G	Sidechain
34	BA	113	G	Sidechain
34	BA	1133	G	Sidechain
34	BA	1135	U	Sidechain
34	BA	114	U	Sidechain
34	BA	1150	U	Sidechain
34	BA	1155	G	Sidechain
34	BA	1159	U	Sidechain
34	BA	116	A	Sidechain
34	BA	1165	C	Sidechain
34	BA	1174	G	Sidechain
34	BA	118	U	Sidechain
34	BA	1188	A	Sidechain
34	BA	1193	G	Sidechain
34	BA	1196	U	Sidechain
34	BA	1201	A	Sidechain
34	BA	121	C	Sidechain
34	BA	1212	U	Sidechain
34	BA	1219	U	Sidechain
34	BA	1235	U	Sidechain
34	BA	1240	U	Sidechain
34	BA	1241	G	Sidechain
34	BA	1271	G	Sidechain
34	BA	129	U	Sidechain
34	BA	129(A)	G	Sidechain
34	BA	1302	U	Sidechain
34	BA	1311	G	Sidechain
34	BA	132	C	Sidechain
34	BA	1321	C	Sidechain
34	BA	1328	C	Sidechain
34	BA	1348	U	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	1361	G	Sidechain
34	BA	1391	U	Sidechain
34	BA	1392	G	Sidechain
34	BA	1393	U	Sidechain
34	BA	1394	A	Sidechain
34	BA	1395	C	Sidechain
34	BA	1397	C	Sidechain
34	BA	14	U	Sidechain
34	BA	1405	G	Sidechain
34	BA	1406	U	Sidechain
34	BA	1407	C	Sidechain
34	BA	1408	A	Sidechain
34	BA	1413	A	Sidechain
34	BA	1414	U	Sidechain
34	BA	1418	A	Sidechain
34	BA	1422	G	Sidechain
34	BA	1423	G	Sidechain
34	BA	1432	G	Sidechain
34	BA	1466	C	Sidechain
34	BA	1469	G	Sidechain
34	BA	1471	G	Sidechain
34	BA	1472	U	Sidechain
34	BA	1482	G	Sidechain
34	BA	1483	A	Sidechain
34	BA	1497	G	Sidechain
34	BA	1502	A	Sidechain
34	BA	1505	G	Sidechain
34	BA	1510	U	Sidechain
34	BA	1515	C	Sidechain
34	BA	1516	G	Sidechain
34	BA	1539	C	Sidechain
34	BA	1540	U	Sidechain
34	BA	1541	U	Sidechain
34	BA	156	G	Sidechain
34	BA	158	G	Sidechain
34	BA	159	G	Sidechain
34	BA	166	G	Sidechain
34	BA	180	U	Sidechain
34	BA	184	G	Sidechain
34	BA	190(D)	U	Sidechain
34	BA	190(H)	G	Sidechain
34	BA	192	U	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	197	A	Sidechain
34	BA	203	U	Sidechain
34	BA	216	G	Sidechain
34	BA	22	G	Sidechain
34	BA	231	G	Sidechain
34	BA	243	A	Sidechain
34	BA	253	U	Sidechain
34	BA	266	G	Sidechain
34	BA	274	A	Sidechain
34	BA	281	G	Sidechain
34	BA	283	C	Sidechain
34	BA	285	G	Sidechain
34	BA	294	U	Sidechain
34	BA	297	G	Sidechain
34	BA	298	A	Sidechain
34	BA	300	A	Sidechain
34	BA	31	G	Sidechain
34	BA	314	C	Sidechain
34	BA	331	G	Sidechain
34	BA	345	C	Sidechain
34	BA	348	G	Sidechain
34	BA	357	G	Sidechain
34	BA	358	U	Sidechain
34	BA	360	A	Sidechain
34	BA	368	U	Sidechain
34	BA	369	C	Sidechain
34	BA	372	C	Sidechain
34	BA	373	A	Sidechain
34	BA	38	G	Sidechain
34	BA	388	G	Sidechain
34	BA	389	A	Sidechain
34	BA	395	C	Sidechain
34	BA	397	A	Sidechain
34	BA	405	U	Sidechain
34	BA	406	G	Sidechain
34	BA	41	G	Sidechain
34	BA	412	A	Sidechain
34	BA	413	G	Sidechain
34	BA	421	U	Sidechain
34	BA	428	G	Sidechain
34	BA	431	A	Sidechain
34	BA	432	A	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	440	A	Sidechain
34	BA	47	C	Sidechain
34	BA	484	G	Sidechain
34	BA	488	C	Sidechain
34	BA	49	U	Sidechain
34	BA	494	G	Sidechain
34	BA	512	U	Sidechain
34	BA	528	C	Sidechain
34	BA	533	A	Sidechain
34	BA	557	G	Sidechain
34	BA	560	U	Sidechain
34	BA	561	U	Sidechain
34	BA	563	A	Sidechain
34	BA	564	C	Sidechain
34	BA	575	G	Sidechain
34	BA	576	G	Sidechain
34	BA	578	C	Sidechain
34	BA	579	G	Sidechain
34	BA	580	U	Sidechain
34	BA	581	G	Sidechain
34	BA	587	G	Sidechain
34	BA	591	U	Sidechain
34	BA	594	G	Sidechain
34	BA	598	U	Sidechain
34	BA	6	G	Sidechain
34	BA	627	G	Sidechain
34	BA	633	G	Sidechain
34	BA	652	U	Sidechain
34	BA	663	A	Sidechain
34	BA	666	G	Sidechain
34	BA	681	C	Sidechain
34	BA	691	G	Sidechain
34	BA	697	U	Sidechain
34	BA	703	G	Sidechain
34	BA	706	A	Sidechain
34	BA	717	C	Sidechain
34	BA	723	U	Sidechain
34	BA	727	G	Sidechain
34	BA	741	G	Sidechain
34	BA	743	U	Sidechain
34	BA	761	G	Sidechain
34	BA	762	C	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	765	G	Sidechain
34	BA	767	A	Sidechain
34	BA	772	U	Sidechain
34	BA	776	G	Sidechain
34	BA	779	C	Sidechain
34	BA	784	C	Sidechain
34	BA	785	G	Sidechain
34	BA	789	U	Sidechain
34	BA	791	G	Sidechain
34	BA	792	A	Sidechain
34	BA	800	G	Sidechain
34	BA	803	G	Sidechain
34	BA	807	A	Sidechain
34	BA	811	C	Sidechain
34	BA	813	U	Sidechain
34	BA	816	A	Sidechain
34	BA	818	G	Sidechain
34	BA	820	U	Sidechain
34	BA	831	U	Sidechain
34	BA	841	U	Sidechain
34	BA	850	U	Sidechain
34	BA	852	G	Sidechain
34	BA	853	G	Sidechain
34	BA	863	U	Sidechain
34	BA	873	A	Sidechain
34	BA	874	G	Sidechain
34	BA	879	C	Sidechain
34	BA	887	G	Sidechain
34	BA	891	U	Sidechain
34	BA	898	G	Sidechain
34	BA	90	U	Sidechain
34	BA	901	A	Sidechain
34	BA	904	C	Sidechain
34	BA	909	A	Sidechain
34	BA	911	U	Sidechain
34	BA	915	A	Sidechain
34	BA	916	G	Sidechain
34	BA	937	A	Sidechain
34	BA	948	C	Sidechain
34	BA	961	U	Sidechain
34	BA	968	A	Sidechain
34	BA	969	A	Sidechain

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Mol	Chain	Res	Type	Group
34	BA	972	C	Sidechain
34	BA	974	A	Sidechain
34	BA	98	U	Sidechain
34	BA	982	U	Sidechain
34	BA	983	A	Sidechain
34	BA	998	G	Sidechain
35	BB	1	G	Sidechain
35	BB	10	G	Sidechain
35	BB	11	C	Sidechain
35	BB	13	C	Sidechain
35	BB	14	A	Sidechain
35	BB	16	U	Sidechain
35	BB	18	G	Sidechain
35	BB	19	G	Sidechain
35	BB	20	G	Sidechain
35	BB	24	G	Sidechain
35	BB	27	C	Sidechain
35	BB	29	A	Sidechain
35	BB	30	G	Sidechain
35	BB	33	U	Sidechain
35	BB	34	G	Sidechain
35	BB	35	A	Sidechain
35	BB	37	G	Sidechain
35	BB	38	A	Sidechain
35	BB	39	U	Sidechain
35	BB	4	G	Sidechain
35	BB	40	C	Sidechain
35	BB	44	A	Sidechain
35	BB	45	G	Sidechain
35	BB	46	G	Sidechain
35	BB	47	U	Sidechain
35	BB	49	C	Sidechain
35	BB	51	G	Sidechain
35	BB	57	G	Sidechain
35	BB	59	U	Sidechain
35	BB	6	U	Sidechain
35	BB	61	C	Sidechain
35	BB	65	G	Sidechain
35	BB	69	U	Sidechain
35	BB	7	U	Sidechain
35	BB	71	G	Sidechain
35	BC	18	G	Sidechain

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Mol	Chain	Res	Type	Group
35	BC	22	G	Sidechain
35	BC	26	G	Sidechain
35	BC	35	A	Sidechain
35	BC	41	U	Sidechain
35	BC	48	C	Sidechain
35	BC	52	U	Sidechain
35	BC	54	U	Sidechain
35	BC	56	C	Sidechain
35	BC	57	G	Sidechain
35	BC	59	U	Sidechain
35	BC	7	U	Sidechain
38	BF	184	TYR	Sidechain
39	BG	4	TYR	Sidechain
41	BI	63	TYR	Sidechain
43	BK	20	TYR	Sidechain
48	BP	23	TYR	Sidechain
51	BS	17	TYR	Sidechain
51	BS	58	TYR	Sidechain

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	AB	2641	0	1337	635	1
2	AA	61847	0	31165	17729	1
3	AC	1687	0	1737	723	0
4	AD	1308	0	1355	898	0
5	AE	1507	0	1494	986	0
6	AF	1430	0	1386	832	0
7	AG	957	0	959	519	0
8	AH	1251	0	1298	612	0
9	AI	945	0	999	497	0
9	AJ	945	0	999	362	0
10	AK	1145	0	1227	630	0
11	AL	999	0	1071	497	0
12	AM	917	0	904	616	0
13	AN	937	0	1000	549	0
14	AO	639	0	615	373	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
15	AP	1081	0	1062	743	0
16	AQ	866	0	875	512	0
17	AR	406	0	361	160	0
18	AS	860	0	919	442	0
19	AT	602	0	563	332	0
20	AU	879	0	868	477	0
21	AV	1360	0	1390	788	0
22	AW	494	0	506	240	0
23	AX	477	0	529	309	0
24	A0	855	0	906	492	0
25	A1	978	0	1020	685	0
26	A2	787	0	804	571	0
27	A3	641	0	668	421	0
28	A4	604	0	595	365	0
29	A5	457	0	462	294	0
30	A6	431	0	456	224	0
31	A7	383	0	414	260	0
32	A8	496	0	549	296	0
33	A9	285	0	312	125	0
34	BA	32554	0	16429	7563	1
35	BB	1626	0	817	629	0
35	BC	1626	0	820	429	0
36	B1	1405	0	706	258	1
37	BE	1900	0	1951	930	0
38	BF	1612	0	1677	662	0
39	BG	1703	0	1763	719	0
40	BH	1146	0	1207	489	1
41	BI	843	0	857	398	0
42	BJ	1257	0	1296	527	0
43	BK	1116	0	1177	677	0
44	BL	1011	0	1043	442	0
45	BM	794	0	840	332	0
46	BN	885	0	904	409	0
47	BO	970	0	1057	459	0
48	BP	997	0	1072	493	0
49	BQ	492	0	529	258	0
50	BR	734	0	771	330	0
51	BS	700	0	720	318	0
52	BT	857	0	930	423	0
53	BU	597	0	668	334	0
54	BV	647	0	673	254	0
55	BW	762	0	859	366	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
56	BX	208	0	221	103	0
All	All	148539	0	99792	47710	3

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 193.

All (47710) 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)
2:AA:2515:C:N4	2:AA:2569:G:H1	1.08	1.45
34:BA:292:G:H1	34:BA:308:C:N4	1.08	1.45
34:BA:144:G:H1	34:BA:178:C:N4	1.13	1.45
2:AA:447:A:H1'	2:AA:449:A:N6	1.28	1.44
33:A9:11:CYS:SG	33:A9:11:CYS:CB	2.06	1.44
2:AA:1651:G:H1	2:AA:2006:C:N4	1.08	1.43
2:AA:1083:U:C2'	9:AI:37:VAL:HA	1.48	1.43
2:AA:533:G:H1	2:AA:560:C:N4	1.06	1.43
13:AN:68:GLY:HA3	13:AN:78:ARG:NE	1.28	1.42
35:BB:37:G:C2	36:B1:63:C:N4	1.88	1.41
2:AA:1778:U:H3	2:AA:1785:A:N6	1.08	1.41
34:BA:131:C:N4	34:BA:231:G:H1	1.19	1.40
2:AA:245:G:N2	2:AA:254:G:H1'	1.36	1.40
2:AA:343:C:N4	2:AA:344:G:C6	1.83	1.40
2:AA:2048:G:H1	2:AA:2620:C:N4	1.14	1.39
2:AA:1222:C:H42	2:AA:1227:A:N6	1.16	1.39
34:BA:1426:C:N4	34:BA:1474:G:H1	1.20	1.38
1:AB:70:C:N4	1:AB:106:G:H1	1.22	1.38
2:AA:343:C:N3	2:AA:344:G:C2	1.91	1.37
2:AA:1612:C:N4	2:AA:1619:G:H1	1.20	1.37
2:AA:701:G:H1	2:AA:731:C:N4	1.21	1.36
2:AA:1855:G:H1	2:AA:1887:C:N4	1.23	1.36
2:AA:1299:G:H4'	2:AA:1301:A:N3	1.40	1.35
35:BB:18:G:N1	35:BB:57:G:N1	1.74	1.35
2:AA:828:U:H2'	2:AA:829:A:C8	1.60	1.35
10:AK:3:VAL:HB	10:AK:19:LYS:O	1.18	1.35
34:BA:1134:G:H1	34:BA:1140:C:N4	1.25	1.34
17:AR:23:HIS:CE1	17:AR:27:ALA:HB3	1.62	1.34
34:BA:1352:C:N4	34:BA:1370:G:H1	1.19	1.34
4:AD:165:GLY:O	4:AD:172:ILE:HB	1.20	1.34
4:AD:78:ALA:HB3	4:AD:92:LEU:O	1.26	1.33
35:BB:42:G:H5''	35:BB:43:G:OP2	1.29	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:295:G:O6	2:AA:344:G:C6	1.81	1.32
13:AN:68:GLY:CA	13:AN:78:ARG:HE	1.43	1.32
6:AF:53:GLY:O	6:AF:54:LEU:HG	1.27	1.32
2:AA:1006:C:H1'	12:AM:86:MET:SD	1.67	1.32
2:AA:775:G:O2'	2:AA:791:C:N4	1.61	1.31
10:AK:4:ILE:HB	10:AK:37:ILE:O	1.14	1.31
35:BB:53:G:C2'	35:BB:54:U:H5'	1.59	1.31
2:AA:2324:C:N4	2:AA:2331:G:H1	1.24	1.31
2:AA:2097:C:N4	2:AA:2192:G:H1	1.28	1.31
2:AA:447:A:C1'	2:AA:449:A:H62	1.44	1.30
19:AT:6:LYS:HB3	19:AT:27:ALA:O	1.32	1.30
35:BB:34:G:N2	35:BB:35:A:C2	1.99	1.30
2:AA:142(A):A:H4'	12:AM:21:ARG:NH2	1.43	1.30
10:AK:88:ARG:HA	10:AK:122:ARG:O	1.28	1.30
2:AA:1909:C:N4	2:AA:1921:G:H1	1.27	1.29
2:AA:324:A:N6	2:AA:339:U:H1'	1.43	1.29
4:AD:89:ASN:O	4:AD:105:ALA:HB2	1.32	1.29
34:BA:530:G:N7	35:BB:35:A:H1'	1.44	1.29
2:AA:1966:A:N3	2:AA:2593:U:H5'	1.45	1.28
35:BB:34:G:C2	35:BB:35:A:N1	2.00	1.28
2:AA:2295:C:N4	2:AA:2337:G:H1	1.30	1.28
6:AF:55:ARG:C	6:AF:79:ARG:HE	1.35	1.28
2:AA:1315:C:N4	2:AA:1337:G:H1	1.30	1.28
2:AA:599:G:H1	2:AA:658:C:N4	1.28	1.28
2:AA:484:C:H2'	2:AA:485:C:C6	1.68	1.27
2:AA:983:A:C8	2:AA:984:A:H1'	1.68	1.27
34:BA:320:C:N4	34:BA:333:G:H1	1.29	1.27
34:BA:957:U:H2'	34:BA:959:A:OP2	1.19	1.27
35:BB:33:U:C2	35:BB:35:A:OP2	1.87	1.27
35:BC:72:C:H2'	35:BC:73:A:C8	1.68	1.27
34:BA:378:G:H1	34:BA:385:C:N4	1.28	1.27
2:AA:1450:C:N4	2:AA:1461:G:H1	1.28	1.27
2:AA:388:G:H2'	2:AA:390:A:N7	1.45	1.27
47:BO:85:ILE:HD11	47:BO:98:TYR:CB	1.61	1.27
2:AA:1350:C:N4	2:AA:1381:G:H1	1.32	1.26
17:AR:12:ASP:O	17:AR:13:ILE:HG12	1.26	1.26
2:AA:138:G:H3'	2:AA:138:G:N3	1.50	1.26
2:AA:296:C:N3	2:AA:344:G:N2	1.83	1.26
2:AA:1076:C:O2'	11:AL:91:GLU:HB3	1.34	1.26
1:AB:71:C:N4	1:AB:105:G:H1	1.32	1.26
34:BA:766:A:H2'	34:BA:767:A:C8	1.69	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AQ:20:TYR:O	16:AQ:23:ARG:HB3	1.29	1.26
2:AA:850:C:H4'	23:AX:18:ASP:OD1	1.36	1.26
34:BA:530:G:N7	35:BB:35:A:C1'	1.97	1.26
4:AD:87:SER:OG	4:AD:156:ALA:HB2	1.33	1.26
34:BA:961:U:O4	34:BA:974:A:N1	1.67	1.26
35:BB:74:C:C4	35:BB:75:C:H1'	1.71	1.25
34:BA:1118:C:OP1	44:BL:104:ARG:HB2	1.25	1.25
2:AA:1995:U:H5'	2:AA:1996:C:C5'	1.64	1.25
2:AA:533:G:N2	2:AA:560:C:N3	1.82	1.25
2:AA:1538:G:H2'	2:AA:1539:G:O4'	1.33	1.25
2:AA:1809:A:N6	28:A4:3:LYS:HG2	1.52	1.25
4:AD:167:GLU:HB2	4:AD:170:TYR:CE1	1.72	1.25
24:A0:58:GLY:HA2	24:A0:80:PHE:CE2	1.72	1.25
35:BB:34:G:C2'	35:BB:35:A:H5''	1.65	1.25
33:A9:19:ARG:O	33:A9:22:ARG:HB2	1.36	1.25
2:AA:270(E):G:H1	2:AA:270(U):C:N4	1.35	1.25
2:AA:135:G:H1	2:AA:144:C:N4	1.33	1.24
1:AB:70:C:N3	1:AB:106:G:N2	1.83	1.24
2:AA:2226:C:C2	2:AA:2227:A:H1'	1.72	1.24
2:AA:2581:G:O6	2:AA:2610:C:H2'	1.37	1.24
8:AH:148:ARG:CZ	8:AH:163:TYR:HA	1.66	1.24
2:AA:1300:U:H1'	2:AA:1626:G:N2	1.53	1.24
2:AA:530:G:C6	2:AA:2021:C:H3'	1.71	1.24
34:BA:131:C:N3	34:BA:231:G:N2	1.86	1.24
34:BA:1352:C:N3	34:BA:1370:G:N2	1.86	1.24
24:A0:78:LYS:O	24:A0:82:GLU:HB2	1.09	1.24
2:AA:1183:G:H3'	2:AA:1183:G:OP2	1.36	1.24
2:AA:1414:G:H1	2:AA:1588:C:N4	1.36	1.23
34:BA:1164:G:H1	34:BA:1172:C:N4	1.35	1.23
2:AA:2544:G:H5'	2:AA:2645:G:N7	1.49	1.23
7:AG:97:GLN:HB2	7:AG:106:PHE:CE2	1.73	1.23
2:AA:874:G:H1	2:AA:903:C:N4	1.32	1.23
34:BA:378:G:N2	34:BA:385:C:N3	1.86	1.23
2:AA:1697:G:C5'	2:AA:1698:A:H5'	1.66	1.23
2:AA:1935:G:N2	2:AA:1962:C:H2'	1.49	1.23
2:AA:612:G:H4'	2:AA:616:A:N6	1.49	1.23
2:AA:589:C:N4	2:AA:668:G:H1	1.35	1.23
37:BE:145:LEU:O	37:BE:149:LEU:HB2	1.33	1.23
2:AA:559:G:H2'	2:AA:560:C:C6	1.74	1.23
10:AK:4:ILE:O	10:AK:36:ALA:HB1	1.36	1.22
14:AO:69:ILE:O	14:AO:73:VAL:HB	1.37	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:375:U:O3'	51:BS:6:LEU:HD21	1.39	1.22
2:AA:1717:G:N1	2:AA:1742:C:O2	1.69	1.22
2:AA:557:U:H4'	12:AM:92:GLN:NE2	1.50	1.22
4:AD:210:LYS:O	4:AD:213:LYS:HB2	1.34	1.22
34:BA:1490:C:H5'	34:BA:1490:C:C6	1.75	1.22
2:AA:1166:C:N3	2:AA:1183:G:N2	1.87	1.22
2:AA:783:A:C2	2:AA:785:G:H1'	1.74	1.22
37:BE:176:GLU:O	37:BE:180:LEU:HG	1.36	1.22
2:AA:701:G:N2	2:AA:731:C:N3	1.86	1.22
13:AN:64:ARG:NH2	13:AN:100:GLY:HA3	1.51	1.22
15:AP:50:VAL:O	15:AP:118:ALA:HA	1.32	1.22
16:AQ:19:ASP:HB2	16:AQ:22:GLN:NE2	1.52	1.22
34:BA:1534:A:N3	34:BA:1534:A:H3'	1.52	1.22
34:BA:888:G:H21	34:BA:909:A:N6	1.38	1.22
2:AA:1568:G:H5''	4:AD:60:GLN:NE2	1.55	1.21
13:AN:81:GLU:CG	13:AN:82:ASN:H	1.52	1.21
42:BJ:68:ASN:ND2	42:BJ:128:ALA:HA	1.52	1.21
2:AA:270(O):U:H5''	2:AA:270(P):C:C5	1.75	1.21
34:BA:1299:A:C8	34:BA:1301:U:H1'	1.74	1.21
35:BB:12:U:C2	35:BB:24:G:N2	2.08	1.21
34:BA:625:G:OP1	51:BS:9:PHE:HB3	1.38	1.21
51:BS:6:LEU:HA	51:BS:18:ARG:O	1.38	1.21
34:BA:939:G:H1	34:BA:1344:C:N4	1.38	1.21
41:BI:76:ALA:HB1	41:BI:80:ARG:NH2	1.55	1.21
2:AA:295:G:N1	2:AA:344:G:C2	2.05	1.21
2:AA:302:C:N4	2:AA:315:G:H1	1.38	1.21
2:AA:530:G:H3'	2:AA:530:G:OP2	1.39	1.21
34:BA:279:A:H1'	34:BA:281:G:C2	1.75	1.21
15:AP:46:VAL:HB	15:AP:124:ALA:O	1.40	1.20
33:A9:7:VAL:HB	33:A9:36:GLN:OE1	1.38	1.20
2:AA:1795:C:H2'	2:AA:1796:U:C5'	1.68	1.20
26:A2:21:ARG:O	26:A2:92:ALA:HB1	1.41	1.20
2:AA:2635:C:N4	2:AA:2783:G:H1	1.39	1.20
2:AA:1270:C:H1'	2:AA:1325:G:N7	1.57	1.20
2:AA:137(A):G:H5''	2:AA:137(A):G:N3	1.55	1.20
2:AA:1651:G:N2	2:AA:2006:C:N3	1.88	1.20
2:AA:2616:C:H2'	2:AA:2617:C:C6	1.76	1.20
2:AA:678:C:N4	2:AA:799:G:H1	1.38	1.20
2:AA:715:G:H3'	2:AA:715:G:OP2	1.41	1.20
13:AN:104:ARG:NH1	13:AN:122:ILE:HA	1.56	1.20
2:AA:1936:A:H1'	2:AA:1940:U:N3	1.53	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:210:THR:HA	5:AE:216:ARG:NH2	1.57	1.20
12:AM:5:GLU:HA	12:AM:109:TYR:HE2	1.05	1.20
2:AA:1471:A:C2	2:AA:1472:A:H1'	1.74	1.20
2:AA:1939:U:C1'	2:AA:2592:G:H4'	1.72	1.20
4:AD:89:ASN:O	4:AD:90:ILE:HD12	1.37	1.20
34:BA:562:C:O2'	47:BO:15:ARG:HB3	1.39	1.19
35:BB:47:U:C5	35:BB:49:C:H5''	1.77	1.19
2:AA:125:G:H5''	31:A7:19:ARG:NH1	1.57	1.19
2:AA:1058:G:O3'	9:AI:2:THR:HA	1.39	1.19
35:BB:34:G:C2	36:B1:66:G:N7	2.09	1.19
2:AA:1695:G:H2'	2:AA:1696:G:C5'	1.72	1.19
5:AE:74:GLU:HA	5:AE:293:TYR:CE2	1.77	1.19
2:AA:1203:G:H1'	2:AA:1241:A:N1	1.53	1.19
2:AA:326:G:N2	2:AA:337:C:H1'	1.57	1.19
2:AA:1519:G:H2'	2:AA:1520:U:O4'	1.43	1.19
2:AA:2355:C:N4	2:AA:2362:G:H1	1.41	1.19
2:AA:2553:G:H21	2:AA:2583:G:C1'	1.56	1.19
34:BA:1062:U:H2'	34:BA:1063:C:C6	1.77	1.19
2:AA:2226:C:H2'	2:AA:2227:A:O4'	1.38	1.19
4:AD:67:LYS:N	4:AD:67:LYS:HD2	1.58	1.19
12:AM:61:VAL:CG2	12:AM:139:LEU:HB2	1.71	1.19
43:BK:29:SER:HB3	43:BK:32:LYS:NZ	1.55	1.19
20:AU:78:THR:HG22	20:AU:88:PRO:HA	1.21	1.19
21:AV:13:LYS:HE2	21:AV:18:MET:SD	1.82	1.19
35:BB:41:U:H2'	35:BB:42:G:O4'	1.42	1.19
34:BA:745:C:H5'	34:BA:851:G:N3	1.58	1.19
37:BE:14:GLY:HA3	37:BE:209:ARG:NH2	1.57	1.19
2:AA:2209:C:H2'	2:AA:2210:G:C3'	1.71	1.18
2:AA:2495:G:H4'	15:AP:101:MET:HG3	1.25	1.18
34:BA:663:A:H5'	34:BA:836:G:OP1	1.41	1.18
20:AU:66:ASP:H	20:AU:72:ILE:HG12	1.08	1.18
2:AA:1482:U:H1'	2:AA:1512:G:H22	1.06	1.18
2:AA:2209:C:C2'	2:AA:2210:G:H3'	1.72	1.18
2:AA:2530:A:H2'	2:AA:2531:A:H5''	1.22	1.18
7:AG:93:LEU:HD12	7:AG:94:ALA:N	1.58	1.18
34:BA:974:A:H1'	49:BQ:31:ARG:HH21	1.03	1.18
1:AB:12:C:C5	27:A3:53:MET:HA	1.78	1.18
2:AA:729:G:H3'	2:AA:729:G:N3	1.55	1.18
37:BE:21:ARG:HA	37:BE:39:ILE:HG12	1.25	1.18
2:AA:1613:G:H2'	2:AA:1617:C:H42	1.09	1.18
34:BA:665:A:H2'	34:BA:725:G:N2	1.56	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BC:37:G:H2'	35:BC:38:A:C8	1.79	1.18
48:BP:84:ILE:HG13	48:BP:85:GLY:H	1.06	1.18
34:BA:370:C:O2'	34:BA:371:G:H5'	1.42	1.18
34:BA:1320:C:H42	54:BV:36:ARG:NH1	1.42	1.18
25:A1:57:PHE:HA	25:A1:60:LEU:HD12	1.20	1.18
15:AP:45:GLN:HE22	15:AP:153:PRO:HB2	1.06	1.18
15:AP:35:ASN:ND2	21:AV:113:VAL:HB	1.55	1.18
2:AA:295:G:N1	2:AA:344:G:C4	2.12	1.18
2:AA:2841:C:H2'	2:AA:2842:G:C8	1.79	1.17
52:BT:18:THR:HG22	52:BT:43:LEU:HD21	1.20	1.17
2:AA:1604:C:O2'	2:AA:1605:C:H5'	1.44	1.17
29:A5:11:THR:CB	29:A5:16:ARG:HE	1.56	1.17
2:AA:27:G:C2	2:AA:512:G:H2'	1.79	1.17
2:AA:919:G:H2'	2:AA:920:G:C8	1.80	1.17
13:AN:42:THR:HB	13:AN:56:GLN:O	1.43	1.17
2:AA:783:A:N1	2:AA:785:G:H1'	1.60	1.17
5:AE:105:HIS:HB2	5:AE:108:LEU:HG	1.25	1.17
5:AE:76:PRO:HB2	5:AE:77:PRO:HD3	1.22	1.17
6:AF:240:LEU:O	6:AF:243:VAL:HB	1.40	1.17
2:AA:973:A:H2'	2:AA:974:G:H5''	1.20	1.17
15:AP:50:VAL:HG13	15:AP:147:VAL:HA	1.21	1.17
29:A5:11:THR:HB	29:A5:16:ARG:NE	1.57	1.17
2:AA:1778:U:N3	2:AA:1785:A:N6	1.92	1.17
6:AF:83:ALA:H	6:AF:87:ARG:NE	1.41	1.17
12:AM:12:VAL:HB	12:AM:38:VAL:CG2	1.74	1.17
34:BA:1308:U:H3'	48:BP:99:ARG:NH1	1.59	1.17
2:AA:2464:C:N3	2:AA:2486:G:N2	1.93	1.17
2:AA:1171:G:H1	2:AA:1179:C:N4	1.43	1.17
2:AA:1855:G:N2	2:AA:1887:C:N3	1.92	1.17
2:AA:1903:G:H2'	2:AA:1904:G:H8	1.08	1.17
5:AE:196:GLY:HA2	5:AE:268:LEU:O	1.42	1.16
34:BA:570:G:H5'	34:BA:820:U:H1'	1.17	1.16
39:BG:20:TYR:HA	39:BG:31:CYS:SG	1.83	1.16
29:A5:10:LYS:HA	29:A5:10:LYS:HZ2	1.09	1.16
2:AA:911:A:C8	2:AA:2264:C:H1'	1.80	1.16
34:BA:371:G:H1	34:BA:390:C:N4	1.39	1.16
43:BK:35:ILE:HD11	43:BK:134:ILE:HD13	1.26	1.16
24:A0:32:GLY:CA	24:A0:116:LEU:HD21	1.75	1.16
2:AA:530:G:N1	2:AA:2021:C:H3'	1.59	1.16
2:AA:2464:C:N4	2:AA:2486:G:H1	1.42	1.16
34:BA:509:A:H2'	34:BA:510:A:C8	1.79	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:135:G:N2	2:AA:144:C:N3	1.91	1.16
2:AA:2048:G:N2	2:AA:2620:C:N3	1.92	1.16
2:AA:711:G:H1	2:AA:720:C:N4	1.43	1.16
2:AA:1568:G:OP1	4:AD:60:GLN:HA	1.44	1.16
16:AQ:22:GLN:O	16:AQ:25:ARG:HB3	1.45	1.16
23:AX:7:LYS:O	23:AX:54:VAL:HB	1.39	1.16
5:AE:174:LEU:O	5:AE:177:ALA:HB3	1.44	1.16
5:AE:82:ALA:O	5:AE:83:LEU:HG	1.40	1.16
13:AN:66:LYS:CE	13:AN:82:ASN:HD21	1.59	1.16
35:BC:30:G:H1	35:BC:40:C:N4	1.41	1.16
43:BK:10:LEU:O	43:BK:13:ILE:HB	1.39	1.16
26:A2:69:ILE:N	26:A2:91:THR:HG22	1.60	1.16
2:AA:1002:G:H1	2:AA:1153:C:N4	1.42	1.16
2:AA:1527:G:H2'	2:AA:1528:A:H5''	1.23	1.16
2:AA:2115:G:O2'	3:AC:126:LYS:HD2	1.44	1.16
6:AF:195:VAL:HB	6:AF:235:PHE:HA	1.25	1.16
37:BE:118:LEU:HD22	37:BE:142:LEU:HB2	1.19	1.16
47:BO:126:LYS:HZ3	47:BO:128:ALA:HB2	1.05	1.16
25:A1:13:ARG:H	25:A1:13:ARG:NH1	1.42	1.16
18:AS:90:ARG:NH1	18:AS:90:ARG:HB2	1.58	1.16
2:AA:2657:A:N6	2:AA:2664:G:H21	1.44	1.16
18:AS:20:VAL:HG11	18:AS:47:VAL:HG21	1.21	1.16
34:BA:1129:C:H4'	34:BA:1131:G:N7	1.61	1.16
34:BA:1236:A:H4'	34:BA:1304:G:H4'	1.21	1.16
2:AA:1937:A:H3'	2:AA:1938:A:H5''	1.25	1.16
34:BA:1073:U:H2'	34:BA:1074:G:H8	1.08	1.16
2:AA:172:C:H2'	2:AA:173:G:H8	1.07	1.16
2:AA:919:G:N2	2:AA:2268:A:H5''	1.61	1.16
4:AD:62:ARG:HH22	4:AD:84:PRO:HD2	1.11	1.16
35:BB:34:G:N1	36:B1:66:G:N7	1.94	1.16
44:BL:16:ARG:HG2	44:BL:18:PHE:HE1	1.11	1.16
2:AA:1495:A:H2'	2:AA:1496:A:N7	1.60	1.15
2:AA:671:C:N4	2:AA:809:G:H1	1.43	1.15
1:AB:71:C:N3	1:AB:105:G:N2	1.93	1.15
10:AK:3:VAL:O	10:AK:18:ILE:HA	1.45	1.15
34:BA:1392:G:H2'	34:BA:1393:U:C6	1.81	1.15
26:A2:72:ARG:HB2	26:A2:88:GLN:CD	1.63	1.15
2:AA:2043:C:H5	2:AA:2777:G:H1'	1.04	1.15
21:AV:41:ARG:O	21:AV:44:ARG:HB2	1.46	1.15
34:BA:313:A:H2'	34:BA:314:C:C6	1.81	1.15
35:BB:37:G:C8	35:BB:37:G:P	2.38	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:12:U:N3	35:BB:24:G:N2	1.94	1.15
24:A0:79:LEU:HD23	24:A0:80:PHE:N	1.61	1.15
2:AA:2553:G:N2	2:AA:2583:G:H1'	1.61	1.15
2:AA:614:U:H3'	2:AA:615:G:H4'	1.23	1.15
2:AA:818:G:H21	2:AA:1189:A:N6	1.45	1.15
2:AA:2313:C:H5''	7:AG:51:ARG:HD3	1.20	1.15
34:BA:77:G:H1	34:BA:92:C:N4	1.45	1.15
31:A7:35:ARG:NH1	31:A7:35:ARG:HB3	1.60	1.15
2:AA:718:A:H5''	2:AA:719:C:C6	1.81	1.15
2:AA:874:G:N2	2:AA:903:C:N3	1.92	1.15
34:BA:408:A:H2'	34:BA:409:G:C8	1.81	1.15
5:AE:44:TYR:HA	5:AE:309:PRO:CD	1.76	1.15
18:AS:19:LEU:HD22	29:A5:25:LEU:HG	1.27	1.15
37:BE:88:ALA:HB2	37:BE:219:VAL:HG22	1.28	1.15
43:BK:63:LEU:HD13	43:BK:63:LEU:N	1.56	1.15
50:BR:38:ARG:NH1	50:BR:38:ARG:HB3	1.61	1.15
2:AA:1084:A:O5'	9:AI:38:ALA:N	1.78	1.15
2:AA:1184:G:C2'	2:AA:1185:C:H5'	1.77	1.15
2:AA:971:C:O2	2:AA:972:G:H1'	1.46	1.15
3:AC:100:ILE:HG22	3:AC:126:LYS:HG2	1.21	1.15
13:AN:63:VAL:HG12	13:AN:102:VAL:HG13	1.19	1.15
13:AN:64:ARG:HD3	13:AN:81:GLU:OE1	1.42	1.15
37:BE:185:ILE:CG2	37:BE:199:TYR:HB2	1.76	1.15
25:A1:98:ILE:HG13	26:A2:13:ARG:HH21	1.06	1.15
2:AA:1222:C:N4	2:AA:1227:A:N6	1.94	1.15
2:AA:1691:C:O2'	2:AA:1692:U:H5'	1.46	1.15
2:AA:607:U:N3	2:AA:621:A:N6	1.95	1.15
2:AA:987:G:H2'	2:AA:988:A:H5'	1.25	1.15
21:AV:13:LYS:HZ1	21:AV:33:ALA:HA	1.06	1.15
34:BA:144:G:N2	34:BA:178:C:N3	1.92	1.15
43:BK:9:MET:HG2	43:BK:13:ILE:HD11	1.24	1.15
28:A4:5:LEU:HD12	28:A4:60:ASN:HD21	1.12	1.15
2:AA:1530:G:O6	2:AA:1541:U:O2	1.61	1.15
3:AC:82:LYS:HB3	3:AC:116:THR:HG21	1.27	1.15
4:AD:112:GLY:O	4:AD:114:GLU:HG3	1.47	1.15
30:A6:28:ARG:NH1	30:A6:28:ARG:HB3	1.60	1.14
4:AD:213:LYS:HB3	4:AD:215:LYS:HB2	1.23	1.14
5:AE:42:ALA:HA	5:AE:311:PHE:CE2	1.79	1.14
12:AM:44:ALA:C	12:AM:132:LEU:HB2	1.66	1.14
2:AA:2231:C:H2'	2:AA:2232:U:C6	1.81	1.14
2:AA:2702:U:OP1	2:AA:2702:U:H6	1.25	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:89(A):A:H2'	1:AB:90:C:H5'	1.20	1.14
3:AC:76:ALA:HB3	3:AC:94:VAL:HG22	1.29	1.14
5:AE:48:MET:HB3	5:AE:71:THR:HG23	1.24	1.14
6:AF:58:ALA:HB2	6:AF:79:ARG:N	1.62	1.14
18:AS:30:GLU:HA	18:AS:33:ARG:HD3	1.30	1.14
37:BE:174:VAL:O	37:BE:178:ARG:HB2	1.44	1.14
43:BK:33:GLU:HG2	43:BK:59:LEU:HD11	1.26	1.14
2:AA:2103:C:N4	2:AA:2186:G:H1	1.43	1.14
2:AA:246:C:N4	2:AA:252:G:H1	1.46	1.14
8:AH:73:ASN:HB3	8:AH:137:LYS:NZ	1.61	1.14
34:BA:985:C:N4	34:BA:1220:G:H1	1.45	1.14
2:AA:628:G:H1	2:AA:635:C:N4	1.44	1.14
2:AA:1054:A:N6	2:AA:1105:U:H3	1.46	1.14
2:AA:2250:G:H5''	15:AP:102:ARG:HB3	1.19	1.14
13:AN:20:LEU:O	13:AN:41:ALA:HB1	1.45	1.14
16:AQ:104:ILE:HG21	16:AQ:109:PRO:HD3	1.25	1.14
23:AX:9:VAL:N	23:AX:54:VAL:HG12	1.61	1.14
2:AA:1795:C:C2'	2:AA:1796:U:H5'	1.77	1.14
2:AA:343:C:N3	2:AA:344:G:C4	2.16	1.14
2:AA:594:U:H2'	2:AA:595:C:C6	1.83	1.14
2:AA:68:G:H2'	2:AA:69:C:C6	1.83	1.14
1:AB:84:C:N4	1:AB:92:G:H1	1.45	1.14
15:AP:50:VAL:HG22	15:AP:147:VAL:HG13	1.30	1.14
37:BE:217:ARG:O	37:BE:220:ASP:HB2	1.47	1.14
31:A7:27:GLY:O	31:A7:31:LEU:HG	1.47	1.14
2:AA:1350:C:N3	2:AA:1381:G:N2	1.95	1.14
3:AC:14:VAL:HG22	3:AC:28:LEU:HD21	1.25	1.14
7:AG:93:LEU:CD1	7:AG:94:ALA:H	1.60	1.14
2:AA:1482:U:C1'	2:AA:1512:G:H22	1.58	1.14
2:AA:342:G:N1	2:AA:344:G:N2	1.96	1.14
2:AA:783:A:H2'	2:AA:784:A:H4'	1.16	1.14
34:BA:417:C:N4	34:BA:426:G:H1	1.44	1.14
51:BS:3:LYS:HD2	51:BS:24:ALA:HB2	1.22	1.14
3:AC:193:ILE:O	3:AC:197:GLU:HB2	1.48	1.14
21:AV:24:TYR:O	21:AV:84:TYR:HA	1.46	1.14
53:BU:49:LYS:N	53:BU:49:LYS:HE3	1.62	1.14
2:AA:1083:U:H2'	9:AI:37:VAL:CA	1.77	1.13
2:AA:139:G:H2'	2:AA:141(A):C:O2'	1.45	1.13
2:AA:2121:G:H2'	2:AA:2122:U:H6	1.09	1.13
17:AR:6:CYS:CB	17:AR:9:CYS:HB3	1.78	1.13
34:BA:1128:C:H1'	34:BA:1146:A:H61	1.09	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BI:95:GLU:HB2	41:BI:96:PRO:HD3	1.25	1.13
2:AA:1977:A:H2'	2:AA:1978:A:C8	1.82	1.13
2:AA:2457:U:C2'	2:AA:2458:G:H5'	1.78	1.13
2:AA:955:C:N4	2:AA:962:G:H1	1.43	1.13
4:AD:213:LYS:C	4:AD:215:LYS:H	1.37	1.13
34:BA:280:C:H5''	34:BA:281:G:OP2	1.49	1.13
10:AK:94:THR:HG22	10:AK:97:GLN:HG3	1.21	1.13
2:AA:978:G:H1	2:AA:985:C:N4	1.44	1.13
15:AP:68:ALA:HB2	15:AP:139:ALA:HB2	1.15	1.13
25:A1:74:MET:HG3	25:A1:117:ARG:NH2	1.61	1.13
28:A4:5:LEU:HD12	28:A4:60:ASN:ND2	1.62	1.13
2:AA:1268:A:H2'	2:AA:1269:A:C8	1.83	1.13
34:BA:666:G:H5'	34:BA:726:C:O2	1.46	1.13
35:BB:57:G:H2'	35:BB:58:A:H5'	1.20	1.13
37:BE:97:TRP:HZ3	37:BE:172:ILE:HB	1.08	1.13
52:BT:45:HIS:NE2	52:BT:47:PRO:HG3	1.64	1.13
55:BW:54:LYS:HA	55:BW:57:ARG:HD2	1.25	1.13
24:A0:79:LEU:HD23	24:A0:80:PHE:CA	1.79	1.13
26:A2:61:VAL:HG12	26:A2:95:ILE:HG22	1.25	1.13
2:AA:1772:G:H2'	2:AA:1773:A:H4'	1.16	1.13
2:AA:2195:C:H2'	2:AA:2196:C:O4'	1.47	1.13
2:AA:2305:A:H5'	2:AA:2306:C:OP2	1.49	1.13
2:AA:2584:U:H6	2:AA:2584:U:H3'	1.05	1.13
2:AA:2838:G:H1	2:AA:2880:C:N4	1.45	1.13
8:AH:86:LEU:HA	8:AH:148:ARG:NH2	1.61	1.13
11:AL:72:THR:OG1	11:AL:115:ASP:HB3	1.45	1.13
34:BA:1528:U:O2'	34:BA:1529:G:H3'	1.47	1.13
34:BA:520:A:H3'	34:BA:521:G:H5''	1.30	1.13
48:BP:81:LEU:HB2	48:BP:86:CYS:SG	1.87	1.13
2:AA:1270:C:C4'	2:AA:1271:G:H5''	1.77	1.13
2:AA:2836:U:H2'	2:AA:2837:G:C8	1.82	1.13
2:AA:286:C:H2'	2:AA:287:C:C5'	1.77	1.13
2:AA:343:C:N3	2:AA:344:G:N3	1.96	1.13
6:AF:213:ALA:HB1	6:AF:218:VAL:HG22	1.13	1.13
35:BB:18:G:C2	35:BB:57:G:C2	2.37	1.13
24:A0:32:GLY:HA2	24:A0:116:LEU:CD2	1.76	1.13
25:A1:97:ASP:O	25:A1:101:ARG:HG2	1.49	1.13
2:AA:2310:A:H2'	7:AG:55:LYS:HE2	1.30	1.13
37:BE:97:TRP:CZ3	37:BE:172:ILE:HB	1.84	1.13
51:BS:74:LEU:HD22	51:BS:79:VAL:HG21	1.23	1.13
25:A1:74:MET:HG3	25:A1:117:ARG:HH22	0.99	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:A2:60:VAL:O	26:A2:98:ILE:HB	1.47	1.13
28:A4:68:ARG:HG2	28:A4:72:LYS:HG2	1.31	1.13
4:AD:181:ARG:NH1	4:AD:181:ARG:HB3	1.64	1.13
37:BE:59:GLU:CB	37:BE:221:LEU:HD21	1.79	1.13
45:BM:84:GLN:HA	45:BM:88:LEU:HD12	1.15	1.13
10:AK:88:ARG:HD3	10:AK:122:ARG:HB3	1.31	1.13
1:AB:16:G:OP2	1:AB:16:G:H3'	1.47	1.13
12:AM:15:ARG:HG2	12:AM:43:ARG:HB3	1.31	1.13
43:BK:126:LYS:HD2	43:BK:127:LEU:N	1.62	1.13
34:BA:1347:G:H3'	44:BL:108:VAL:HA	1.29	1.13
53:BU:46:GLU:HB3	53:BU:85:LEU:HD13	1.31	1.13
55:BW:45:GLN:HA	55:BW:91:LEU:HD22	1.19	1.13
30:A6:19:GLY:HA3	30:A6:42:PRO:HG3	1.29	1.12
2:AA:217:G:H2'	2:AA:218:A:H5'	1.29	1.12
18:AS:4:LYS:HG2	18:AS:106:ILE:HA	1.23	1.12
34:BA:858:G:N2	34:BA:869:G:H2'	1.63	1.12
2:AA:2624:G:H1'	29:A5:22:HIS:HE2	1.00	1.12
2:AA:2785:C:H5'	5:AE:99:VAL:HG22	1.30	1.12
23:AX:31:LEU:CD2	23:AX:32:GLN:H	1.60	1.12
35:BB:22:G:H2'	35:BB:23:A:C8	1.82	1.12
2:AA:1085:A:H1'	2:AA:1086:A:H4'	1.13	1.12
2:AA:697:C:O2'	2:AA:698:C:H5''	1.49	1.12
12:AM:50:GLU:O	12:AM:53:ILE:HG22	1.49	1.12
15:AP:16:ARG:HB3	15:AP:16:ARG:NH1	1.63	1.12
35:BB:18:G:N1	35:BB:57:G:C2	2.16	1.12
27:A3:36:ILE:HB	27:A3:68:VAL:HG11	1.26	1.12
2:AA:1718:G:N2	2:AA:1741:C:N3	1.97	1.12
19:AT:6:LYS:HD2	19:AT:27:ALA:HB1	1.17	1.12
34:BA:5:U:C4	39:BG:86:LYS:HE3	1.83	1.12
35:BC:20:G:N2	35:BC:21:A:H5'	1.62	1.12
46:BN:58:PRO:HA	46:BN:90:GLY:HA3	1.30	1.12
10:AK:115:ILE:HG23	10:AK:131:VAL:HG22	1.28	1.12
26:A2:61:VAL:HG13	26:A2:96:LEU:O	1.49	1.12
2:AA:2125:G:N2	2:AA:2174:C:H42	1.46	1.12
2:AA:2343:C:O2'	2:AA:2344:U:H5'	1.46	1.12
2:AA:791:C:C2	2:AA:794:G:H5'	1.84	1.12
12:AM:61:VAL:HG21	12:AM:139:LEU:CB	1.79	1.12
2:AA:245:G:OP1	14:AO:53:ARG:HD3	1.47	1.12
22:AW:26:GLU:HA	22:AW:29:ASN:HD22	1.01	1.12
45:BM:51:ARG:HB2	45:BM:59:SER:HB3	1.26	1.12
2:AA:137(A):G:H5'	2:AA:138:G:OP2	1.48	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:7:LYS:HA	10:AK:14:LYS:HG2	1.23	1.12
13:AN:71:ARG:NH2	13:AN:77:ILE:HG21	1.64	1.12
34:BA:1426:C:N3	34:BA:1474:G:N2	1.97	1.12
34:BA:15:G:H2'	34:BA:16:A:C8	1.83	1.12
2:AA:1528:A:N6	2:AA:1543:A:H62	1.47	1.12
2:AA:893:C:H2'	2:AA:894:C:C6	1.85	1.12
5:AE:45:LYS:HE3	5:AE:303:PRO:HG2	1.29	1.12
20:AU:23:VAL:HG23	20:AU:67:LEU:HD21	1.20	1.12
34:BA:671:G:H2'	34:BA:672:U:C6	1.85	1.12
43:BK:6:ILE:HD12	43:BK:85:ARG:HH11	1.11	1.12
45:BM:24:VAL:HG21	45:BM:37:PRO:HD3	1.26	1.12
26:A2:78:VAL:HB	26:A2:80:TYR:HD1	1.02	1.12
2:AA:780:G:H2'	2:AA:782:A:C8	1.83	1.12
13:AN:9:LYS:HG3	13:AN:18:GLU:HG2	1.30	1.12
53:BU:75:ILE:HG22	53:BU:76:LEU:HD22	1.32	1.12
2:AA:2097:C:N3	2:AA:2192:G:N2	1.95	1.12
6:AF:162:VAL:HB	6:AF:165:ASP:OD1	1.48	1.12
21:AV:71:MET:HA	21:AV:78:PRO:CB	1.78	1.12
27:A3:46:LYS:HG2	27:A3:58:THR:H	1.10	1.12
2:AA:1695:G:N2	2:AA:1696:G:C8	2.17	1.12
2:AA:2472:G:H2'	2:AA:2475:C:N4	1.65	1.12
5:AE:171:SER:O	5:AE:175:ASP:HB2	1.49	1.12
5:AE:317:PRO:HG2	5:AE:320:GLN:HG2	1.16	1.12
23:AX:31:LEU:HD22	23:AX:32:GLN:N	1.63	1.12
39:BG:10:ARG:O	39:BG:13:ARG:HB2	1.48	1.12
30:A6:40:TYR:O	30:A6:47:HIS:HA	1.49	1.11
2:AA:1085:A:H1'	2:AA:1086:A:C4'	1.78	1.11
2:AA:1909:C:N3	2:AA:1921:G:N2	1.98	1.11
1:AB:33:G:H2'	1:AB:34:U:C6	1.84	1.11
15:AP:127:ASN:HB2	15:AP:128:PRO:HD3	1.21	1.11
35:BC:40:C:H2'	35:BC:41:U:H5''	1.22	1.11
43:BK:26:VAL:HG22	43:BK:27:PRO:HD2	1.31	1.11
2:AA:1055:G:C2	9:AI:28:LYS:HD3	1.85	1.11
2:AA:1309:G:C2'	2:AA:1310:G:H5'	1.78	1.11
2:AA:821:A:O2'	2:AA:945:A:H3'	1.48	1.11
8:AH:90:GLY:HA3	8:AH:93:TYR:HB2	1.24	1.11
13:AN:66:LYS:HE3	13:AN:82:ASN:HD21	1.03	1.11
18:AS:8:ARG:HG2	18:AS:9:TYR:H	1.05	1.11
34:BA:1073:U:H3	34:BA:1102:A:N6	1.46	1.11
15:AP:26:LYS:HD2	15:AP:89:PRO:HD2	1.25	1.11
19:AT:11:THR:HG23	19:AT:14:ALA:HB2	1.31	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1452:C:H4'	34:BA:1453:G:H5''	1.32	1.11
2:AA:1527:G:N2	2:AA:1544:C:N3	1.98	1.11
2:AA:1935:G:H2'	2:AA:1962:C:N3	1.66	1.11
2:AA:2636:U:H4'	5:AE:84:ARG:HH12	1.09	1.11
2:AA:599:G:N2	2:AA:658:C:N3	1.98	1.11
2:AA:752:A:C5	2:AA:1781:C:H1'	1.83	1.11
3:AC:205:LYS:HG2	3:AC:206:GLY:H	1.12	1.11
22:AW:20:LEU:HD21	22:AW:53:ILE:HG23	1.22	1.11
35:BB:36:A:N6	36:B1:65:U:C2	2.18	1.11
44:BL:55:ALA:HB3	44:BL:58:ARG:NE	1.65	1.11
53:BU:66:LEU:HD12	53:BU:67:ALA:N	1.65	1.11
2:AA:108:U:H2'	2:AA:109:G:H8	1.07	1.11
2:AA:1309:G:H2'	2:AA:1310:G:H5'	1.21	1.11
2:AA:1528:A:H61	2:AA:1543:A:N6	1.47	1.11
2:AA:2023:G:H1	2:AA:2040:C:N4	1.46	1.11
2:AA:2353:G:N2	2:AA:2364:C:N3	1.97	1.11
2:AA:245:G:H22	2:AA:254:G:C1'	1.63	1.11
39:BG:18:LYS:HA	39:BG:33:MET:HE2	1.32	1.11
43:BK:6:ILE:HD11	43:BK:85:ARG:HD3	1.31	1.11
48:BP:91:ARG:HB3	48:BP:98:VAL:HG22	1.26	1.11
2:AA:1084:A:O5'	9:AI:39:VAL:N	1.84	1.11
2:AA:271(B):G:C5'	2:AA:271(C):U:H5'	1.79	1.11
20:AU:42:VAL:HG12	20:AU:43:ASN:H	1.05	1.11
34:BA:1428:A:H2'	34:BA:1429:C:C6	1.84	1.11
34:BA:517:G:O2'	34:BA:530:G:H4'	1.49	1.11
40:BH:89:ILE:HG12	40:BH:131:ILE:HD12	1.27	1.11
2:AA:1240:U:H3'	2:AA:1241:A:H8	1.12	1.11
2:AA:1544:C:OP2	2:AA:1544:C:H3'	1.48	1.11
2:AA:449:A:OP2	6:AF:85:LYS:HA	1.47	1.11
2:AA:559:G:H2'	2:AA:560:C:H6	0.97	1.11
4:AD:74:PRO:HD2	4:AD:96:ALA:HB2	1.24	1.11
6:AF:5:ILE:HD11	6:AF:16:VAL:HG23	1.15	1.11
42:BJ:100:ALA:O	42:BJ:104:LEU:HD23	1.49	1.11
42:BJ:113:GLU:HG3	42:BJ:118:VAL:HB	1.25	1.11
44:BL:32:ASP:HB3	44:BL:35:GLU:HB2	1.26	1.11
2:AA:2207:C:C2'	2:AA:2208:U:H5'	1.80	1.11
2:AA:2373:G:H1	2:AA:2380:C:N4	1.49	1.11
2:AA:2581:G:C6	2:AA:2610:C:H2'	1.84	1.11
4:AD:213:LYS:HB3	4:AD:215:LYS:CB	1.80	1.11
21:AV:13:LYS:NZ	21:AV:33:ALA:HA	1.62	1.11
47:BO:126:LYS:NZ	47:BO:128:ALA:HB2	1.66	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2521:C:N4	2:AA:2544:G:H1	1.46	1.11
5:AE:268:LEU:HG	5:AE:296:VAL:HG22	1.33	1.11
2:AA:1083:U:C4	9:AI:36:PRO:HB3	1.85	1.11
13:AN:86:ILE:HG22	13:AN:94:ARG:HG3	1.33	1.11
18:AS:5:ALA:HB2	18:AS:54:ALA:HB2	1.13	1.11
23:AX:26:LEU:HD13	23:AX:47:VAL:HG22	1.26	1.11
38:BF:19:GLU:HA	38:BF:54:ARG:NH2	1.63	1.11
1:AB:8:U:H2'	1:AB:9:G:C8	1.85	1.11
48:BP:22:ILE:HB	48:BP:25:ILE:HG13	1.18	1.11
9:AI:16:SER:OG	9:AJ:105:GLY:HA3	1.47	1.11
29:A5:15:LYS:HB2	29:A5:15:LYS:NZ	1.62	1.10
33:A9:11:CYS:HB3	33:A9:32:HIS:CE1	1.85	1.10
2:AA:1142:U:C6	2:AA:142(A):A:H5'	1.86	1.10
2:AA:2681:C:H5	2:AA:2727:G:N2	1.48	1.10
33:A9:2:LYS:N	33:A9:2:LYS:HZ2	1.45	1.10
2:AA:1035:U:H2'	2:AA:1036:G:H8	1.13	1.10
2:AA:621:A:H2'	2:AA:622:G:H5'	1.19	1.10
2:AA:786:C:O2'	2:AA:787:U:H5'	1.51	1.10
2:AA:678:C:N3	2:AA:799:G:N2	1.98	1.10
5:AE:45:LYS:NZ	5:AE:301:PRO:HG2	1.64	1.10
9:AI:35:ALA:HB3	9:AI:36:PRO:HD3	1.30	1.10
15:AP:85:ILE:HG22	15:AP:122:PHE:HB3	1.23	1.10
20:AU:42:VAL:HA	20:AU:112:LEU:HD13	1.32	1.10
34:BA:1210:C:H4'	34:BA:1214:C:N3	1.64	1.10
38:BF:88:ARG:NE	38:BF:101:LEU:H	1.47	1.10
43:BK:95:VAL:HB	43:BK:99:GLU:CD	1.70	1.10
51:BS:20:VAL:HG11	51:BS:32:TYR:HB2	1.31	1.10
54:BV:32:LYS:HA	54:BV:50:ALA:HB3	1.34	1.10
2:AA:1309:G:H21	2:AA:1611:C:H5'	1.17	1.10
2:AA:669:G:N3	2:AA:669:G:H2'	1.61	1.10
2:AA:791:C:N3	2:AA:793:A:O2'	1.84	1.10
13:AN:43:VAL:HG11	13:AN:54:LYS:HA	1.32	1.10
15:AP:31:PHE:HA	15:AP:85:ILE:HD11	1.22	1.10
17:AR:6:CYS:HB3	17:AR:9:CYS:CB	1.80	1.10
35:BB:18:G:C6	35:BB:57:G:N1	2.18	1.10
46:BN:32:ILE:CG2	46:BN:40:ILE:HD12	1.79	1.10
32:A8:29:LYS:HD3	32:A8:36:LYS:HZ3	1.02	1.10
2:AA:817:C:H2'	2:AA:818:G:O4'	1.50	1.10
13:AN:19:VAL:HG13	13:AN:42:THR:O	1.50	1.10
34:BA:946:A:H2'	34:BA:947:G:C8	1.85	1.10
47:BO:53:ARG:NH1	47:BO:93:LEU:HD22	1.64	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:A0:61:HIS:HA	24:A0:64:ARG:HD3	1.13	1.10
2:AA:2041:U:C2'	2:AA:2042:A:H5'	1.81	1.10
2:AA:2305:A:H3'	2:AA:2306:C:H5''	1.29	1.10
34:BA:545:C:O2'	34:BA:546:G:H5'	1.52	1.10
38:BF:84:ILE:HA	38:BF:87:LEU:HD12	1.29	1.10
56:BX:12:LYS:HB3	56:BX:18:TYR:HD2	1.16	1.10
24:A0:58:GLY:HA2	24:A0:80:PHE:HE2	1.01	1.10
2:AA:1543:A:H3'	2:AA:1544:C:C6	1.85	1.10
5:AE:46:ALA:HB3	5:AE:72:VAL:HG23	1.15	1.10
23:AX:30:ARG:HH11	23:AX:30:ARG:HG3	1.17	1.10
34:BA:1538:C:N4	36:B1:51:G:H1	1.49	1.10
42:BJ:75:VAL:HG22	42:BJ:88:PRO:HA	1.13	1.10
41:BI:49:ALA:HB1	53:BU:80:PRO:HD3	1.21	1.10
35:BB:40:C:H5'	35:BB:41:U:OP2	1.51	1.10
30:A6:37:LEU:HD21	30:A6:51:ARG:HG2	1.32	1.10
2:AA:2316:C:H4'	7:AG:142:ALA:HB1	1.29	1.10
14:AO:77:ALA:HA	14:AO:81:VAL:HB	1.27	1.10
18:AS:23:LEU:HD12	29:A5:25:LEU:HB3	1.23	1.10
20:AU:57:GLY:HA2	20:AU:97:ARG:HH22	1.04	1.10
23:AX:23:LEU:HA	23:AX:28:LEU:HD12	1.34	1.10
34:BA:1163:C:N4	34:BA:1173:G:H1	1.49	1.10
34:BA:474:G:H5'	51:BS:81:ARG:HG3	1.24	1.10
35:BB:53:G:H2'	35:BB:54:U:H5'	1.31	1.10
38:BF:132:ARG:HG2	38:BF:136:GLN:HE21	1.05	1.10
47:BO:84:LEU:N	47:BO:104:VAL:HG11	1.66	1.10
47:BO:41:ARG:HG2	47:BO:42:THR:H	1.06	1.10
5:AE:269:ILE:H	5:AE:269:ILE:HD12	1.11	1.10
5:AE:61:PRO:HB3	5:AE:69:PRO:HA	1.25	1.10
34:BA:590:C:H5''	43:BK:30:ARG:HD2	1.29	1.10
29:A5:40:LYS:NZ	29:A5:49:CYS:HB2	1.65	1.10
2:AA:1591:G:H2'	2:AA:1592:C:C6	1.87	1.10
2:AA:270(I):G:H1	2:AA:270(Q):C:N4	1.49	1.10
2:AA:270(P):C:H2'	2:AA:270(Q):C:C6	1.85	1.10
2:AA:775:G:C5'	2:AA:777:A:H1'	1.81	1.10
2:AA:780:G:H2'	2:AA:782:A:N7	1.67	1.10
2:AA:973:A:C2'	2:AA:974:G:H5''	1.82	1.10
14:AO:119:THR:HA	14:AO:138:GLY:O	1.52	1.10
34:BA:571:U:H3'	34:BA:572:A:H5''	1.19	1.10
29:A5:45:ILE:HG13	29:A5:52:TYR:HE1	1.13	1.10
2:AA:1379:A:N3	2:AA:1379:A:H3'	1.66	1.10
2:AA:1442:G:H1	2:AA:1549:C:N4	1.49	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2515:C:N3	2:AA:2569:G:N2	1.97	1.10
4:AD:89:ASN:HD21	4:AD:199:ARG:NE	1.48	1.10
8:AH:148:ARG:NH1	8:AH:163:TYR:HA	1.66	1.10
14:AO:92:ASP:CB	14:AO:118:LEU:HD22	1.81	1.10
38:BF:84:ILE:HG13	38:BF:101:LEU:HD22	1.34	1.10
55:BW:40:ALA:HB2	55:BW:55:ILE:HG21	1.33	1.10
2:AA:1482:U:H2'	2:AA:1483:G:H4'	1.23	1.10
28:A4:56:VAL:HG12	28:A4:57:ASP:H	1.15	1.09
2:AA:1264:G:H3'	2:AA:1265:A:H5''	1.30	1.09
2:AA:1613:G:H3'	2:AA:1614:A:H5'	1.10	1.09
2:AA:627:A:C6	2:AA:637:A:H1'	1.85	1.09
5:AE:304:ASP:H	5:AE:307:LEU:HD12	1.10	1.09
15:AP:88:PHE:HB2	15:AP:90:PHE:CE1	1.85	1.09
38:BF:33:LEU:CD1	49:BQ:54:PRO:HD2	1.81	1.09
27:A3:78:PHE:O	27:A3:79:ILE:HG13	1.52	1.09
2:AA:1202:C:C2	2:AA:1243:G:N2	2.20	1.09
2:AA:2067:G:H1	2:AA:2443:C:N4	1.50	1.09
2:AA:270(M):U:H4'	2:AA:270(N):G:H4'	1.27	1.09
3:AC:131:LEU:HB3	3:AC:136:LEU:C	1.72	1.09
2:AA:2680:C:H5''	5:AE:302:GLY:O	1.50	1.09
5:AE:201:VAL:HG22	5:AE:311:PHE:HB3	1.28	1.09
6:AF:223:LEU:HD22	6:AF:233:THR:HG21	1.16	1.09
21:AV:71:MET:CA	21:AV:78:PRO:HB3	1.81	1.09
39:BG:144:ASP:O	39:BG:184:LYS:HA	1.51	1.09
46:BN:78:GLN:HA	46:BN:103:LEU:HD13	1.33	1.09
10:AK:110:LEU:HD21	10:AK:114:LYS:HG3	1.23	1.09
10:AK:77:VAL:HG12	10:AK:79:ILE:HD11	1.11	1.09
2:AA:237:C:N4	2:AA:260:G:H1	1.50	1.09
2:AA:531:C:N4	25:A1:38:THR:HG22	1.67	1.09
3:AC:22:ILE:HG22	3:AC:186:ALA:HA	1.22	1.09
6:AF:83:ALA:HB3	6:AF:87:ARG:HH21	1.16	1.09
34:BA:22:G:H2'	34:BA:23:C:C6	1.86	1.09
35:BB:70:C:H2'	35:BB:71:G:C8	1.87	1.09
46:BN:73:MET:SD	46:BN:103:LEU:HD21	1.91	1.09
32:A8:21:LYS:HB3	32:A8:48:PHE:HZ	1.14	1.09
2:AA:1465:G:H2'	2:AA:1466:G:H8	1.09	1.09
2:AA:215:G:H4'	2:AA:216:A:O5'	1.52	1.09
2:AA:2225:A:H5''	2:AA:2226:C:H5'	1.29	1.09
8:AH:9:GLU:HA	8:AH:48:VAL:HG12	1.10	1.09
12:AM:45:VAL:O	12:AM:46:ILE:HG13	1.51	1.09
2:AA:2250:G:N7	15:AP:102:ARG:HA	1.65	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1189:C:OP1	38:BF:5:ILE:HG21	1.53	1.09
34:BA:1287:A:H2'	34:BA:1288:A:C8	1.86	1.09
40:BH:61:TYR:HA	40:BH:64:ARG:HG3	1.34	1.09
46:BN:95:ILE:HA	46:BN:98:LEU:HD12	1.28	1.09
2:AA:1151:G:H4'	25:A1:81:ASN:ND2	1.65	1.09
2:AA:2207:C:H2'	2:AA:2208:U:H5'	1.10	1.09
1:AB:115:G:H5'	16:AQ:59:ALA:HB2	1.25	1.09
3:AC:133:PRO:HG2	3:AC:134:ARG:HG3	1.34	1.09
14:AO:73:VAL:HG22	14:AO:76:LEU:HD22	1.34	1.09
17:AR:49:LEU:HD22	17:AR:54:THR:CG2	1.81	1.09
34:BA:1539:C:N4	36:B1:50:G:H1	1.49	1.09
46:BN:79:SER:HA	46:BN:104:GLN:HB3	1.11	1.09
27:A3:49:GLN:H	27:A3:49:GLN:NE2	1.49	1.09
2:AA:1438:U:H2'	2:AA:1439:A:H5'	1.24	1.09
2:AA:1468:C:C2	2:AA:1524:G:N2	2.20	1.09
2:AA:2587:A:O2'	2:AA:2588:G:H5'	1.49	1.09
2:AA:648:G:H2'	2:AA:649:G:C8	1.87	1.09
2:AA:1568:G:C5'	4:AD:60:GLN:HE21	1.64	1.09
9:AJ:35:ALA:HB3	9:AJ:36:PRO:HD3	1.32	1.09
12:AM:5:GLU:HA	12:AM:109:TYR:CE2	1.87	1.09
15:AP:15:THR:HB	15:AP:20:ILE:HG12	1.31	1.09
39:BG:59:ARG:HA	39:BG:59:ARG:CZ	1.83	1.09
42:BJ:69:VAL:HG11	42:BJ:104:LEU:CD2	1.82	1.09
43:BK:80:ILE:H	43:BK:80:ILE:HD12	1.17	1.09
48:BP:77:ASN:HB2	48:BP:80:ARG:HH11	0.98	1.09
35:BB:37:G:C8	35:BB:37:G:OP2	2.06	1.09
2:AA:2313:C:H5'	7:AG:72:LYS:HG3	1.29	1.09
2:AA:2635:C:N3	2:AA:2783:G:N2	1.99	1.09
2:AA:527:C:H2'	12:AM:95:ARG:HH12	1.08	1.09
8:AH:25:VAL:HG12	8:AH:78:VAL:HG21	1.27	1.09
13:AN:81:GLU:HG2	13:AN:82:ASN:N	1.50	1.09
34:BA:386:C:H2'	34:BA:387:U:H5'	1.14	1.09
39:BG:58:LEU:HD13	39:BG:59:ARG:HH11	0.94	1.09
52:BT:62:SER:HB3	52:BT:72:ARG:HE	1.07	1.09
31:A7:34:ARG:HH11	31:A7:42:LEU:HD23	1.14	1.09
2:AA:1270:C:H4'	2:AA:1271:G:C5'	1.82	1.09
2:AA:1717:G:O6	2:AA:1742:C:N3	1.85	1.09
2:AA:1810:A:H2'	2:AA:1811:G:H5'	1.13	1.09
2:AA:1936:A:H1'	2:AA:1940:U:C2	1.88	1.09
2:AA:2219:G:H2'	2:AA:2224:G:H5'	1.27	1.09
2:AA:531:C:H5'	2:AA:532:A:N3	1.67	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:3:ILE:HG21	11:AL:117:ASN:HA	1.22	1.09
2:AA:1083:U:H4'	9:AI:40:ALA:HB3	1.13	1.09
16:AQ:61:ALA:HB2	16:AQ:88:ALA:HB2	1.11	1.09
34:BA:1048:G:H1	34:BA:1209:C:N4	1.49	1.09
37:BE:187:LEU:HD23	37:BE:201:ILE:HG22	1.32	1.09
34:BA:1308:U:C3'	48:BP:99:ARG:HH12	1.66	1.09
24:A0:55:ALA:HA	24:A0:80:PHE:CE1	1.87	1.09
32:A8:4:MET:HB2	32:A8:7:HIS:HE1	1.16	1.09
2:AA:2674:G:H2'	2:AA:2675:A:C8	1.88	1.09
4:AD:216:ALA:HB1	4:AD:223:ASN:HB2	1.30	1.09
15:AP:48:ASN:HA	15:AP:140:TYR:OH	1.51	1.09
19:AT:11:THR:H	19:AT:14:ALA:HB3	0.94	1.09
2:AA:138:G:H5''	19:AT:43:GLU:HG3	1.33	1.09
20:AU:51:LEU:HA	20:AU:97:ARG:HH21	1.12	1.09
21:AV:46:GLN:HE21	21:AV:50:GLY:HA3	1.07	1.09
34:BA:462:G:H21	51:BS:82:GLN:NE2	1.49	1.09
25:A1:24:PHE:HE1	25:A1:29:SER:HA	1.18	1.09
26:A2:57:GLN:HG2	26:A2:58:ALA:H	1.00	1.09
2:AA:295:G:N1	2:AA:344:G:N3	1.98	1.09
7:AG:19:GLU:HB3	7:AG:135:VAL:HG21	1.19	1.09
15:AP:66:ASN:HB2	15:AP:70:ARG:NH2	1.66	1.09
20:AU:41:ARG:HB3	20:AU:111:ARG:HG2	1.24	1.09
38:BF:36:ASP:HA	38:BF:39:ILE:HD12	1.31	1.09
38:BF:67:THR:HA	38:BF:102:ASN:O	1.53	1.09
40:BH:78:HIS:HB2	43:BK:104:ARG:HD2	1.10	1.09
47:BO:32:PHE:HB3	47:BO:84:LEU:HD21	1.31	1.09
34:BA:1305:G:H5''	56:BX:5:ASP:H	1.15	1.09
2:AA:2089:U:H3	2:AA:2231:C:N4	1.50	1.08
34:BA:112:G:H5'	34:BA:389:A:H4'	1.13	1.08
34:BA:766:A:H2'	34:BA:767:A:H8	0.96	1.08
37:BE:54:THR:O	37:BE:58:ILE:HG13	1.52	1.08
46:BN:32:ILE:HB	46:BN:40:ILE:HB	1.17	1.08
31:A7:28:ARG:HA	31:A7:31:LEU:HD12	1.35	1.08
2:AA:295:G:N2	2:AA:344:G:N3	2.01	1.08
2:AA:68:G:H2'	2:AA:69:C:H6	1.01	1.08
5:AE:77:PRO:HB2	5:AE:187:HIS:H	1.12	1.08
5:AE:201:VAL:HG13	5:AE:310:PHE:O	1.49	1.08
2:AA:557:U:H4'	12:AM:92:GLN:HE21	0.95	1.08
2:AA:1614:A:N6	18:AS:88:ARG:HB2	1.68	1.08
21:AV:148:THR:HA	21:AV:168:VAL:HB	1.15	1.08
39:BG:60:GLU:HA	39:BG:63:LYS:CD	1.82	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:54:G:H1	2:AA:116:C:N4	1.50	1.08
5:AE:269:ILE:HG13	5:AE:297:LYS:HG2	1.31	1.08
21:AV:103:ARG:HG2	21:AV:139:THR:HG22	1.17	1.08
50:BR:3:ILE:HG23	50:BR:38:ARG:HH21	1.11	1.08
2:AA:2364:C:H1'	27:A3:32:LYS:HE2	1.33	1.08
2:AA:1995:U:H5'	2:AA:1996:C:H5''	1.16	1.08
2:AA:2359:C:H4'	32:A8:52:LYS:NZ	1.68	1.08
2:AA:270(E):G:N2	2:AA:270(U):C:N3	2.01	1.08
3:AC:22:ILE:CG2	3:AC:186:ALA:HA	1.83	1.08
5:AE:222:ARG:HG2	5:AE:232:ARG:HA	1.25	1.08
21:AV:148:THR:HA	21:AV:168:VAL:CB	1.83	1.08
2:AA:904:C:H1'	21:AV:166:LEU:HD11	1.22	1.08
21:AV:5:ALA:O	21:AV:33:ALA:HB2	1.50	1.08
43:BK:22:GLU:CA	43:BK:63:LEU:HD11	1.83	1.08
45:BM:10:GLY:HA3	45:BM:16:LEU:HD21	1.26	1.08
10:AK:93:ILE:HD11	10:AK:121:ILE:HB	1.13	1.08
40:BH:39:GLY:O	40:BH:69:VAL:HG23	1.54	1.08
25:A1:83:LEU:O	25:A1:86:ALA:HB2	1.53	1.08
29:A5:10:LYS:HE3	29:A5:16:ARG:HH22	1.08	1.08
2:AA:1355:G:N2	2:AA:1377:G:H1'	1.67	1.08
10:AK:2:LYS:HD2	10:AK:39:ALA:HB2	1.32	1.08
11:AL:14:PRO:HB2	11:AL:17:LYS:HD2	1.27	1.08
13:AN:77:ILE:HD13	13:AN:78:ARG:N	1.69	1.08
21:AV:112:LEU:HA	21:AV:174:PRO:HD3	1.35	1.08
43:BK:67:PRO:HD2	43:BK:76:PRO:HB3	1.32	1.08
25:A1:20:ARG:HB3	25:A1:39:LEU:HD11	1.36	1.08
2:AA:1617:C:H5''	2:AA:1618:A:OP2	1.53	1.08
2:AA:491:G:H2'	2:AA:492:A:C8	1.88	1.08
2:AA:823:G:H2'	2:AA:824:A:C8	1.88	1.08
5:AE:202:ALA:HA	5:AE:262:THR:HB	1.29	1.08
15:AP:67:ALA:HA	15:AP:70:ARG:CD	1.81	1.08
43:BK:87:SER:HB3	43:BK:92:ARG:HA	1.33	1.08
22:AW:39:ALA:HB3	22:AW:40:PRO:HD3	1.19	1.08
25:A1:47:TYR:CE1	26:A2:76:SER:HA	1.88	1.08
2:AA:1058:G:C1'	9:AI:3:ILE:HG13	1.84	1.08
2:AA:1473:G:H2'	2:AA:1474:C:O4'	1.52	1.08
5:AE:205:THR:O	5:AE:206:LYS:HG3	1.51	1.08
12:AM:137:GLU:HA	12:AM:141:ALA:CB	1.83	1.08
34:BA:781:A:H2'	34:BA:782:A:C5'	1.82	1.08
2:AA:972:G:N7	2:AA:1188:U:O4	1.87	1.08
2:AA:2386:C:H4'	27:A3:39:ARG:NE	1.66	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:950:G:H2'	2:AA:951:C:C6	1.89	1.08
3:AC:43:VAL:HG23	3:AC:175:VAL:HG21	1.34	1.08
5:AE:304:ASP:N	5:AE:307:LEU:HD12	1.66	1.08
11:AL:124:ALA:HA	11:AL:127:ILE:HD12	1.20	1.08
39:BG:29:PRO:O	39:BG:30:LYS:HG3	1.53	1.08
3:AC:180:PHE:CD2	3:AC:184:LYS:HD3	1.89	1.08
24:A0:86:ARG:HB3	24:A0:86:ARG:HH11	1.12	1.08
2:AA:2022:U:H3	29:A5:9:LYS:NZ	1.50	1.08
2:AA:2125:G:OP2	3:AC:130:ILE:HA	1.54	1.08
5:AE:39:GLN:CD	5:AE:174:LEU:HD11	1.73	1.08
34:BA:1251:A:H2'	34:BA:1252:A:C8	1.89	1.08
37:BE:59:GLU:HB3	37:BE:221:LEU:CD2	1.83	1.08
48:BP:13:LYS:HA	48:BP:44:ARG:HE	1.18	1.08
2:AA:973:A:C5	26:A2:80:TYR:HA	1.89	1.08
32:A8:10:ALA:HA	32:A8:14:ILE:HG21	1.31	1.08
2:AA:1213:A:N1	2:AA:1237:A:H1'	1.67	1.08
2:AA:629:G:H1'	2:AA:639:U:O2'	1.54	1.08
3:AC:75:LEU:HB3	3:AC:113:VAL:HG22	1.30	1.08
4:AD:196:ASN:HA	4:AD:199:ARG:HD2	1.13	1.08
18:AS:40:ASN:HD22	18:AS:41:LYS:HD2	1.16	1.08
35:BB:60:C:OP2	35:BB:61:C:C5	2.07	1.08
37:BE:91:PRO:HG2	37:BE:155:LEU:HB2	1.17	1.08
41:BI:23:LYS:HA	41:BI:26:ILE:HD12	1.17	1.08
41:BI:95:GLU:HB2	41:BI:96:PRO:CD	1.84	1.08
45:BM:32:ALA:HB2	45:BM:76:ASN:HD22	0.92	1.08
47:BO:85:ILE:HD11	47:BO:98:TYR:HB3	1.21	1.08
2:AA:1614:A:N7	18:AS:88:ARG:HD2	1.69	1.07
2:AA:2472:G:C2'	2:AA:2475:C:H42	1.66	1.07
2:AA:2584:U:H3'	2:AA:2584:U:C6	1.89	1.07
8:AH:104:LEU:HB2	8:AH:151:ARG:CZ	1.83	1.07
23:AX:9:VAL:HG23	23:AX:54:VAL:HA	1.09	1.07
34:BA:357:G:OP1	34:BA:367:U:H3'	1.53	1.07
35:BB:33:U:N3	35:BB:35:A:OP2	1.85	1.07
37:BE:115:LEU:HB2	37:BE:145:LEU:HD12	1.36	1.07
2:AA:1084:A:OP1	9:AI:40:ALA:N	1.86	1.07
2:AA:2836:U:H2'	2:AA:2837:G:H8	0.99	1.07
4:AD:131:LEU:HD11	4:AD:187:CYS:HB2	1.27	1.07
15:AP:71:PHE:HB3	15:AP:138:ARG:HH11	1.00	1.07
34:BA:292:G:N2	34:BA:308:C:N3	2.00	1.07
40:BH:51:VAL:O	40:BH:55:VAL:HG23	1.50	1.07
44:BL:10:ARG:HA	44:BL:104:ARG:HE	1.19	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:953:G:H4'	48:BP:124:PRO:O	1.53	1.07
10:AK:125:GLY:HA2	10:AK:145:VAL:H	1.08	1.07
26:A2:4:ILE:HA	26:A2:12:TYR:CE2	1.87	1.07
32:A8:50:LEU:HD23	32:A8:51:ALA:H	1.15	1.07
2:AA:1943:U:O2	2:AA:1945:G:H5'	1.52	1.07
2:AA:1981:A:H5''	2:AA:1982:C:OP2	1.53	1.07
2:AA:607:U:N3	2:AA:621:A:C6	2.22	1.07
2:AA:685:A:O4'	2:AA:688:U:O4	1.71	1.07
4:AD:174:ARG:HA	4:AD:180:VAL:HG13	1.30	1.07
12:AM:135:ILE:HG22	12:AM:139:LEU:HD11	1.35	1.07
2:AA:2334:G:H1	16:AQ:10:MET:HE2	1.10	1.07
22:AW:20:LEU:HD22	22:AW:23:LEU:HD12	1.08	1.07
34:BA:1490:C:H6	34:BA:1490:C:H5'	0.93	1.07
34:BA:276:G:H2'	34:BA:277:C:H5'	1.36	1.07
34:BA:613:C:N4	34:BA:627:G:H1	1.51	1.07
26:A2:69:ILE:H	26:A2:91:THR:CG2	1.67	1.07
2:AA:1044:G:H2'	2:AA:1111:A:H2	1.14	1.07
2:AA:2674:G:H2'	2:AA:2675:A:H8	1.12	1.07
2:AA:2739:U:H6	2:AA:2739:U:H3'	1.19	1.07
2:AA:2848:G:H22	2:AA:2867:G:H1'	1.12	1.07
2:AA:860:U:O4	2:AA:917:A:N1	1.86	1.07
5:AE:174:LEU:HD12	5:AE:174:LEU:H	1.13	1.07
2:AA:2320:A:C6	16:AQ:9:PRO:HB3	1.89	1.07
48:BP:34:LEU:HD23	48:BP:39:ILE:HG13	1.36	1.07
48:BP:81:LEU:HD11	48:BP:88:ARG:NH2	1.68	1.07
2:AA:2317:C:H5'	7:AG:150:SER:HA	1.33	1.07
2:AA:602:G:O3'	2:AA:603:A:H4'	1.42	1.07
6:AF:1:MET:O	6:AF:18:LEU:HG	1.53	1.07
34:BA:754:C:H5'	34:BA:755:G:C8	1.88	1.07
37:BE:217:ARG:HA	37:BE:220:ASP:OD2	1.54	1.07
39:BG:140:VAL:HB	39:BG:185:PHE:HD1	1.19	1.07
40:BH:104:ALA:HA	40:BH:107:ARG:HH12	1.14	1.07
46:BN:62:GLN:HE22	46:BN:63:LEU:HG	1.16	1.07
26:A2:59:GLU:CD	26:A2:99:GLN:HA	1.73	1.07
2:AA:270(X):G:H2'	2:AA:270(Y):G:C5'	1.84	1.07
14:AO:53:ARG:HD2	14:AO:53:ARG:H	1.20	1.07
21:AV:118:HIS:CD2	21:AV:168:VAL:HA	1.88	1.07
35:BC:48:C:H2'	35:BC:48:C:O2	1.49	1.07
37:BE:16:HIS:O	37:BE:204:ASN:HB2	1.53	1.07
2:AA:1061:U:H4'	2:AA:1070:A:C1'	1.84	1.07
2:AA:2805:G:H3'	2:AA:2807:G:H5''	1.36	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:286:C:H2'	2:AA:287:C:H5'	1.30	1.07
34:BA:939:G:N2	34:BA:1344:C:N3	2.01	1.07
43:BK:111:ILE:O	43:BK:134:ILE:HB	1.53	1.07
32:A8:50:LEU:HD23	32:A8:51:ALA:N	1.68	1.07
2:AA:1862:G:H1	2:AA:1880:C:N4	1.52	1.07
5:AE:45:LYS:HZ3	5:AE:301:PRO:CG	1.67	1.07
34:BA:1299:A:N7	34:BA:1301:U:H1'	1.68	1.07
34:BA:1343:G:H4'	44:BL:122:ALA:HB3	1.37	1.07
39:BG:20:TYR:CA	39:BG:31:CYS:SG	2.43	1.07
43:BK:126:LYS:HZ3	43:BK:127:LEU:HD23	1.16	1.07
48:BP:14:ARG:HA	48:BP:44:ARG:HA	1.31	1.07
55:BW:63:ILE:HD11	55:BW:80:ARG:HB3	1.32	1.07
2:AA:1552:G:O2'	2:AA:1553:A:H5''	1.54	1.07
2:AA:1685:C:H2'	2:AA:1686:C:H6	1.19	1.07
2:AA:172:C:H2'	2:AA:173:G:C8	1.88	1.07
2:AA:2730:C:H4'	5:AE:265:ASN:HD21	1.09	1.07
2:AA:457:A:H1'	2:AA:459:U:C2	1.89	1.07
2:AA:784:A:O2'	2:AA:785:G:H5''	1.55	1.07
2:AA:870:A:N6	2:AA:907:U:H3	1.51	1.07
4:AD:128:ALA:HB2	4:AD:190:THR:HG22	1.36	1.07
4:AD:89:ASN:O	4:AD:105:ALA:CB	2.02	1.07
5:AE:263:GLU:H	5:AE:266:LYS:NZ	1.51	1.07
5:AE:299:SER:OG	5:AE:301:PRO:HD3	1.52	1.07
6:AF:109:LEU:O	6:AF:112:ARG:HB2	1.55	1.07
38:BF:132:ARG:HG2	38:BF:136:GLN:NE2	1.68	1.07
24:A0:97:VAL:HG13	24:A0:114:VAL:HG22	1.30	1.07
2:AA:1151:G:H4'	25:A1:81:ASN:HD21	0.98	1.07
2:AA:1935:G:H22	2:AA:1962:C:H2'	1.01	1.07
12:AM:58:GLU:HA	12:AM:61:VAL:HB	1.35	1.07
13:AN:66:LYS:HE3	13:AN:82:ASN:ND2	1.69	1.07
37:BE:61:LEU:HA	37:BE:64:ARG:HD2	1.09	1.07
41:BI:37:VAL:HA	41:BI:65:VAL:HG12	1.27	1.07
2:AA:1156:A:H5'	2:AA:1157:G:N7	1.68	1.06
2:AA:27:G:N1	2:AA:512:G:H2'	1.69	1.06
2:AA:2862:G:H2'	2:AA:2863:C:H6	1.12	1.06
2:AA:342:G:H1	2:AA:344:G:N2	1.52	1.06
2:AA:783:A:H5''	2:AA:2589:A:OP1	1.53	1.06
7:AG:19:GLU:OE2	7:AG:135:VAL:HG13	1.55	1.06
19:AT:30:ASP:HA	19:AT:62:LYS:HD2	1.37	1.06
34:BA:573:A:H2'	34:BA:574:A:C8	1.89	1.06
47:BO:27:LEU:HD23	47:BO:33:ARG:HH11	0.90	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:A4:43:TRP:HA	28:A4:61:LYS:HE3	1.35	1.06
2:AA:1939:U:H1'	2:AA:2592:G:H4'	1.07	1.06
2:AA:2785:C:H4'	5:AE:99:VAL:HA	1.32	1.06
2:AA:640:C:N4	2:AA:647:G:H1	1.51	1.06
4:AD:181:ARG:CZ	4:AD:181:ARG:HB3	1.80	1.06
6:AF:115:LEU:HG	6:AF:246:ARG:NH2	1.70	1.06
2:AA:600:G:H5'	6:AF:30:LEU:HD11	1.31	1.06
14:AO:108:VAL:HB	14:AO:125:PHE:CD2	1.88	1.06
16:AQ:47:LEU:H	16:AQ:57:THR:HG22	1.07	1.06
21:AV:51:LEU:HD21	21:AV:64:ALA:H	1.09	1.06
34:BA:1338:G:H21	35:BC:41:U:H1'	1.12	1.06
52:BT:25:ARG:HH21	52:BT:40:LYS:HD2	1.13	1.06
55:BW:30:LYS:NZ	55:BW:30:LYS:HB2	1.68	1.06
10:AK:83:ALA:CB	10:AK:89:LEU:HA	1.83	1.06
35:BB:1:G:C6	35:BB:73:A:C6	2.43	1.06
37:BE:135:GLN:O	37:BE:139:LYS:HG2	1.53	1.06
24:A0:90:ARG:HH22	24:A0:117:VAL:HG22	1.20	1.06
26:A2:50:ASP:H	26:A2:53:LYS:HD2	1.13	1.06
30:A6:28:ARG:HB3	30:A6:28:ARG:HH11	1.06	1.06
2:AA:2284:C:OP2	30:A6:9:ILE:HG13	1.55	1.06
2:AA:1024:G:N7	2:AA:1025:G:C8	2.23	1.06
2:AA:1677:A:H2'	2:AA:1678:G:C8	1.89	1.06
2:AA:2132:U:H4'	3:AC:5:LYS:HG2	1.35	1.06
2:AA:648:G:H2'	2:AA:649:G:H8	0.97	1.06
34:BA:1193:G:H2'	34:BA:1194:U:H5'	1.34	1.06
29:A5:10:LYS:HE3	29:A5:16:ARG:NH2	1.70	1.06
2:AA:2054:A:N1	2:AA:2615:U:O4	1.88	1.06
2:AA:2334:G:H2'	2:AA:2335:A:H5'	1.37	1.06
2:AA:2316:C:C4'	7:AG:142:ALA:HB1	1.85	1.06
14:AO:108:VAL:HB	14:AO:125:PHE:HD2	1.08	1.06
34:BA:776:G:H5''	34:BA:777:A:OP1	1.52	1.06
35:BB:60:C:H5'	35:BB:61:C:O5'	1.55	1.06
50:BR:8:LYS:O	50:BR:11:VAL:HB	1.54	1.06
34:BA:275:G:H5'	52:BT:14:LYS:HD3	1.36	1.06
28:A4:2:GLN:O	28:A4:3:LYS:HG3	1.56	1.06
2:AA:1414:G:N2	2:AA:1588:C:N3	2.03	1.06
2:AA:1703:G:O2'	34:BA:1429:C:H4'	1.55	1.06
2:AA:2842:G:H1	2:AA:2875:C:N4	1.53	1.06
2:AA:819:A:H4'	2:AA:838:C:H5'	1.37	1.06
4:AD:109:LEU:HD13	4:AD:115:ILE:HG12	1.37	1.06
22:AW:3:LEU:HB3	22:AW:8:ILE:HD11	1.37	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BC:20:G:H21	35:BC:21:A:C5'	1.68	1.06
3:AC:70:LYS:HG2	3:AC:157:LYS:HZ1	1.16	1.06
6:AF:213:ALA:HB1	6:AF:218:VAL:CG2	1.84	1.06
14:AO:141:GLU:HB2	14:AO:145:LEU:HD22	1.35	1.06
15:AP:57:ARG:O	15:AP:61:LEU:HG	1.54	1.06
34:BA:547:A:H4'	34:BA:548:G:O5'	1.55	1.06
39:BG:59:ARG:HA	39:BG:59:ARG:NH1	1.71	1.06
35:BB:37:G:N1	36:B1:63:C:N4	2.02	1.06
2:AA:1482:U:H3'	2:AA:1482:U:C6	1.90	1.06
2:AA:1012:U:H5'	2:AA:1013:C:OP1	1.54	1.06
2:AA:1252:G:H8	2:AA:1253:A:H1'	1.20	1.06
2:AA:137:C:N3	2:AA:142:G:N2	2.02	1.06
2:AA:2510:C:N3	2:AA:2578:G:O6	1.86	1.06
2:AA:2649:U:H2'	2:AA:2650:U:H6	1.20	1.06
3:AC:190:ARG:HB2	3:AC:190:ARG:NH1	1.68	1.06
6:AF:83:ALA:CB	6:AF:87:ARG:HH21	1.69	1.06
9:AI:102:ILE:HG21	9:AI:118:LEU:HD11	1.38	1.06
37:BE:102:LEU:HD22	37:BE:176:GLU:HB2	1.37	1.06
39:BG:55:ALA:O	39:BG:59:ARG:HG2	1.54	1.06
28:A4:16:TYR:O	28:A4:17:GLN:HG3	1.53	1.06
2:AA:2348:U:O4	2:AA:2382:G:N2	1.89	1.06
2:AA:562:U:O2'	2:AA:563:G:H5''	1.55	1.06
11:AL:105:ILE:HG23	11:AL:128:ILE:HG21	1.38	1.06
15:AP:56:ILE:HG22	15:AP:61:LEU:HD13	1.37	1.06
34:BA:531:U:H4'	34:BA:532:A:H5''	1.31	1.06
38:BF:64:VAL:HB	38:BF:99:VAL:HG11	1.32	1.06
40:BH:11:ILE:HG22	40:BH:12:LEU:H	1.21	1.06
44:BL:82:ALA:HB1	44:BL:96:LEU:HD11	1.33	1.06
34:BA:1316:G:H5''	49:BQ:17:LYS:HD2	1.18	1.06
2:AA:1262:A:H2	29:A5:10:LYS:HE2	1.12	1.06
2:AA:2121:G:H2'	2:AA:2122:U:C6	1.90	1.06
3:AC:104:LEU:HD12	3:AC:130:ILE:HD11	1.06	1.06
37:BE:185:ILE:HG22	37:BE:199:TYR:HB2	1.32	1.06
40:BH:79:GLU:HG3	40:BH:93:PRO:CD	1.85	1.06
41:BI:23:LYS:O	41:BI:26:ILE:HB	1.56	1.06
25:A1:74:MET:CG	25:A1:117:ARG:HH22	1.68	1.06
25:A1:13:ARG:O	25:A1:16:LYS:HB2	1.55	1.06
27:A3:38:VAL:HA	27:A3:40:GLN:HE21	1.20	1.06
2:AA:1388:G:O2'	2:AA:1525:G:H5'	1.55	1.06
2:AA:138:G:H2'	2:AA:139:G:H4'	1.06	1.06
2:AA:1718:G:H2'	2:AA:1725:G:H8	1.21	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1857:G:H1	2:AA:1884:A:N6	1.54	1.06
2:AA:270(X):G:C2'	2:AA:270(Y):G:H5'	1.86	1.06
2:AA:2006:C:O2'	2:AA:2823:A:N3	1.89	1.06
2:AA:2848:G:N2	2:AA:2867:G:H1'	1.69	1.06
2:AA:2821:A:OP2	5:AE:207:GLY:HA3	1.55	1.06
2:AA:2316:C:H4'	7:AG:151:ILE:HD11	1.32	1.06
14:AO:65:ASP:HA	14:AO:108:VAL:HG13	1.38	1.06
34:BA:1053:G:H5'	34:BA:1054:C:H5'	1.36	1.06
38:BF:11:ARG:HG2	38:BF:15:THR:O	1.55	1.06
39:BG:12:CYS:HA	39:BG:19:LEU:HB2	1.15	1.06
37:BE:136:VAL:HA	37:BE:139:LYS:HZ2	1.12	1.06
2:AA:1559:G:C6	2:AA:1560:G:H4'	1.91	1.05
1:AB:43:C:N4	1:AB:45:A:H62	1.54	1.05
3:AC:176:GLY:HA3	3:AC:185:LEU:HD23	1.36	1.05
15:AP:15:THR:HB	15:AP:20:ILE:CG1	1.85	1.05
34:BA:626:U:H2'	34:BA:627:G:C8	1.91	1.05
34:BA:968:A:H5''	34:BA:969:A:OP2	1.54	1.05
51:BS:28:ARG:HD2	51:BS:29:ASP:OD2	1.55	1.05
53:BU:72:ARG:HG2	53:BU:72:ARG:HH11	1.19	1.05
27:A3:37:LEU:HD13	27:A3:69:PHE:HB2	1.13	1.05
2:AA:1890:A:C2	2:AA:1891:G:H1'	1.91	1.05
21:AV:172:LEU:HG	21:AV:173:PRO:HD2	1.35	1.05
34:BA:1000:U:O4	34:BA:1041:A:N1	1.89	1.05
40:BH:122:GLU:O	40:BH:123:LEU:HD22	1.54	1.05
34:BA:192:U:H1'	55:BW:103:GLY:HA2	1.08	1.05
2:AA:1559:G:O6	2:AA:1560:G:H4'	1.56	1.05
2:AA:1666:G:C2'	2:AA:1667:G:H5'	1.86	1.05
2:AA:2810:A:H2'	2:AA:2811:G:H5'	1.38	1.05
2:AA:616:A:H5''	6:AF:42:ARG:NH1	1.71	1.05
2:AA:671:C:N3	2:AA:809:G:N2	2.04	1.05
2:AA:882:G:H1	2:AA:894:C:N4	1.53	1.05
2:AA:880:G:H1	2:AA:897:C:N4	1.54	1.05
7:AG:98:PHE:HA	7:AG:104:PHE:HD2	1.20	1.05
13:AN:3:GLN:HA	13:AN:21:VAL:HG11	1.33	1.05
34:BA:1134:G:N2	34:BA:1140:C:N3	2.04	1.05
34:BA:1182:G:H4'	34:BA:1183:A:O5'	1.52	1.05
39:BG:145:GLU:HG3	39:BG:184:LYS:HE2	1.38	1.05
49:BQ:9:LYS:NZ	49:BQ:10:ALA:HB2	1.72	1.05
2:AA:1940:U:O2	2:AA:1940:U:H2'	1.53	1.05
2:AA:558:G:P	12:AM:91:LYS:HB3	1.96	1.05
2:AA:800:A:O2'	2:AA:801:G:H3'	1.56	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:950:G:H2'	2:AA:951:C:H6	1.20	1.05
4:AD:209:ASN:HB3	4:AD:213:LYS:NZ	1.71	1.05
8:AH:44:VAL:HA	8:AH:49:ILE:HG22	1.34	1.05
18:AS:88:ARG:HD3	18:AS:91:GLY:O	1.55	1.05
39:BG:60:GLU:CA	39:BG:63:LYS:HD2	1.85	1.05
50:BR:33:THR:HG23	50:BR:63:ARG:NH1	1.69	1.05
2:AA:1625:C:H2'	2:AA:1626:G:C4'	1.86	1.05
2:AA:1800:C:H6	2:AA:1800:C:H3'	1.19	1.05
2:AA:580:C:H2'	2:AA:581:C:C6	1.92	1.05
1:AB:21:G:H1	1:AB:62:C:N4	1.52	1.05
4:AD:76:ARG:HH11	4:AD:113:MET:HB2	1.22	1.05
4:AD:166:LYS:HD2	4:AD:171:VAL:HG12	1.33	1.05
9:AJ:71:ILE:CG1	11:AL:61:TYR:HB2	1.85	1.05
2:AA:95:G:H5'	22:AW:41:GLU:CD	1.77	1.05
34:BA:399:G:H2'	34:BA:400:C:H6	1.21	1.05
35:BB:34:G:H2'	35:BB:35:A:C5'	1.86	1.05
38:BF:83:ARG:HG3	38:BF:87:LEU:HD11	1.33	1.05
40:BH:141:GLN:HA	40:BH:143:ARG:HH21	1.19	1.05
26:A2:62:GLU:HG3	26:A2:98:ILE:HD11	1.36	1.05
2:AA:1263:U:H4'	29:A5:16:ARG:CZ	1.85	1.05
2:AA:1450:C:N3	2:AA:1461:G:N2	2.04	1.05
2:AA:2055:C:H2'	2:AA:2504:U:H5'	1.34	1.05
2:AA:271(B):G:H5''	2:AA:271(C):U:H5'	1.07	1.05
2:AA:930:U:C2'	2:AA:931:G:H1'	1.86	1.05
2:AA:931:G:H2'	2:AA:932:G:C8	1.90	1.05
5:AE:200:ASP:OD2	5:AE:264:LEU:HA	1.56	1.05
6:AF:37:ALA:HB2	6:AF:102:LEU:HD12	1.37	1.05
39:BG:53:ASP:O	39:BG:56:VAL:HB	1.55	1.05
51:BS:39:TYR:CZ	51:BS:41:PRO:HG3	1.91	1.05
2:AA:1417:C:N4	2:AA:1581:G:H22	1.53	1.05
15:AP:45:GLN:NE2	15:AP:153:PRO:HB2	1.71	1.05
34:BA:599:C:H4'	43:BK:130:GLY:HA3	1.36	1.05
40:BH:81:GLU:HB3	40:BH:90:VAL:HG22	1.07	1.05
47:BO:85:ILE:HD11	47:BO:98:TYR:HB2	1.38	1.05
51:BS:46:PRO:HG2	51:BS:47:ASP:H	1.16	1.05
55:BW:37:SER:O	55:BW:41:VAL:HG23	1.53	1.05
32:A8:29:LYS:HD3	32:A8:36:LYS:NZ	1.71	1.05
2:AA:2543:G:H2'	2:AA:2544:G:C8	1.92	1.05
2:AA:616:A:H5''	6:AF:42:ARG:HH12	0.91	1.05
6:AF:111:VAL:HA	6:AF:220:THR:HG23	1.38	1.05
13:AN:83:ALA:O	13:AN:84:CYS:SG	2.13	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:62:A:O2'	35:BB:63:C:H5'	1.55	1.05
44:BL:38:GLN:O	44:BL:40:LEU:HG	1.55	1.05
47:BO:60:LEU:H	47:BO:60:LEU:HD22	1.22	1.05
50:BR:25:THR:HA	50:BR:28:GLN:HG2	1.37	1.05
2:AA:581:C:H5''	25:A1:32:TYR:HB2	1.36	1.05
2:AA:2083:G:H2'	2:AA:2084:C:C6	1.92	1.05
2:AA:2779:U:H1'	2:AA:2781:A:N6	1.71	1.05
2:AA:792:G:N2	2:AA:2072:G:H1'	1.72	1.05
1:AB:8:U:C2'	1:AB:9:G:H8	1.69	1.05
4:AD:131:LEU:HA	4:AD:134:ILE:HD12	1.06	1.05
9:AI:1:MET:HE2	9:AJ:86:LYS:HD2	1.34	1.05
12:AM:57:TYR:HB2	12:AM:135:ILE:HG21	1.36	1.05
18:AS:29:LEU:HD22	18:AS:107:LEU:HD21	1.32	1.05
19:AT:24:LEU:HD21	19:AT:73:ASP:OD1	1.55	1.05
34:BA:1521:G:H2'	34:BA:1522:U:H6	1.21	1.05
38:BF:182:ILE:HG23	38:BF:203:PHE:HA	1.37	1.05
43:BK:6:ILE:HD12	43:BK:85:ARG:NH1	1.72	1.05
34:BA:761:G:H5''	52:BT:102:GLY:CA	1.86	1.05
24:A0:78:LYS:O	24:A0:82:GLU:CB	2.05	1.05
30:A6:19:GLY:HA3	30:A6:42:PRO:CG	1.87	1.05
2:AA:2671:A:H2'	2:AA:2672:G:H8	1.20	1.05
2:AA:2803:C:H2'	2:AA:2803:C:O2	1.55	1.05
3:AC:41:VAL:HB	3:AC:176:GLY:O	1.57	1.05
14:AO:92:ASP:HB2	14:AO:118:LEU:HD22	1.06	1.05
15:AP:65:ARG:NH1	15:AP:85:ILE:HD13	1.69	1.05
34:BA:959:A:H3'	34:BA:960:U:H5''	1.35	1.05
37:BE:15:VAL:CG2	37:BE:209:ARG:HD2	1.86	1.05
2:AA:1353:A:C6	2:AA:1378:A:N1	2.25	1.04
2:AA:1818:U:O5'	4:AD:155:ARG:HG3	1.56	1.04
2:AA:2308:G:H5'	2:AA:2309:A:OP1	1.55	1.04
2:AA:642:G:H21	2:AA:646:A:N6	1.53	1.04
2:AA:2822:G:H5''	5:AE:258:TYR:OH	1.55	1.04
6:AF:153:VAL:HG11	6:AF:207:LEU:HD13	1.37	1.04
19:AT:33:SER:O	19:AT:37:VAL:HB	1.54	1.04
39:BG:143:GLY:HA2	39:BG:185:PHE:O	1.57	1.04
53:BU:53:ARG:HD2	53:BU:58:LEU:O	1.56	1.04
2:AA:1977:A:H2'	2:AA:1978:A:H8	0.93	1.04
2:AA:2209:C:N4	2:AA:2215:G:H1	1.56	1.04
2:AA:2648:C:N4	2:AA:2672:G:H1	1.54	1.04
5:AE:44:TYR:HA	5:AE:309:PRO:HD2	1.37	1.04
21:AV:112:LEU:HD21	21:AV:171:VAL:HB	1.38	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:452:A:H2'	34:BA:453:A:H8	1.21	1.04
42:BJ:106:GLN:HA	42:BJ:109:ASN:HD22	1.19	1.04
10:AK:83:ALA:HB2	10:AK:89:LEU:HA	1.05	1.04
2:AA:138:G:C2'	2:AA:139:G:H4'	1.86	1.04
2:AA:1969:A:H4'	2:AA:1970:A:H5'	1.36	1.04
2:AA:2471:C:N4	2:AA:2479:G:H1	1.54	1.04
2:AA:863:A:H2'	2:AA:864:G:H8	1.17	1.04
1:AB:8:U:H2'	1:AB:9:G:H8	0.97	1.04
7:AG:82:GLU:HA	7:AG:85:GLN:NE2	1.71	1.04
8:AH:102:LEU:HD22	8:AH:122:ILE:HD13	1.36	1.04
8:AH:30:GLY:O	8:AH:78:VAL:HG13	1.57	1.04
10:AK:6:LEU:HD22	10:AK:14:LYS:HD3	1.35	1.04
21:AV:52:PHE:H	21:AV:65:LEU:HD11	1.18	1.04
34:BA:1475:G:H2'	34:BA:1476:G:C8	1.92	1.04
35:BC:7:U:H4'	35:BC:8:U:OP2	1.57	1.04
39:BG:12:CYS:HB3	39:BG:33:MET:SD	1.97	1.04
40:BH:104:ALA:HA	40:BH:107:ARG:NH1	1.70	1.04
54:BV:40:ILE:HG12	54:BV:71:LEU:HD23	1.38	1.04
2:AA:2146:C:H2'	2:AA:2147:G:N3	1.73	1.04
4:AD:107:LYS:N	4:AD:194:VAL:O	1.90	1.04
55:BW:56:MET:SD	55:BW:88:VAL:HG21	1.97	1.04
3:AC:181:PRO:HD2	3:AC:184:LYS:HD2	1.34	1.04
2:AA:1993:U:H4'	5:AE:228:ARG:HH21	1.20	1.04
2:AA:2135:A:H3'	2:AA:2135:A:N3	1.71	1.04
2:AA:404:C:H4'	2:AA:405:U:H5'	1.05	1.04
2:AA:791:C:C2	2:AA:793:A:O2'	2.10	1.04
35:BC:20:G:H21	35:BC:21:A:H5'	0.90	1.04
37:BE:55:PHE:HA	37:BE:58:ILE:HD12	1.08	1.04
39:BG:38:TYR:HB2	39:BG:39:PRO:HD2	1.36	1.04
2:AA:25:U:H2'	2:AA:26:G:C8	1.91	1.04
2:AA:401:A:H2'	2:AA:402:A:H8	1.23	1.04
2:AA:58:G:H2'	2:AA:73:A:N6	1.72	1.04
2:AA:752:A:C6	2:AA:1781:C:H1'	1.92	1.04
10:AK:31:PHE:CZ	10:AK:36:ALA:HB3	1.92	1.04
34:BA:12:U:H4'	34:BA:526:C:H4'	1.35	1.04
34:BA:118:U:H2'	34:BA:288:A:N1	1.73	1.04
40:BH:79:GLU:HG3	40:BH:93:PRO:HD3	1.34	1.04
41:BI:23:LYS:HE3	41:BI:61:LEU:HD11	1.37	1.04
40:BH:78:HIS:HB3	43:BK:107:LEU:HD21	1.38	1.04
7:AG:90:LEU:HD13	48:BP:3:ARG:HH12	1.15	1.04
2:AA:1022:G:H2'	2:AA:1025:G:O6	1.56	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:80:G:H1	2:AA:106:C:N4	1.56	1.04
2:AA:1262:A:C2	29:A5:10:LYS:HE2	1.91	1.04
2:AA:2073:C:H2'	2:AA:2074:U:H6	1.20	1.04
1:AB:69:G:H5'	1:AB:70:C:OP2	1.57	1.04
4:AD:85:ASN:N	4:AD:85:ASN:HD22	1.54	1.04
2:AA:2052:G:H1'	5:AE:245:ARG:O	1.55	1.04
7:AG:98:PHE:HA	7:AG:104:PHE:CD2	1.93	1.04
10:AK:7:LYS:HE2	10:AK:12:LYS:HZ3	1.21	1.04
47:BO:34:ARG:HH21	47:BO:61:THR:HG21	1.21	1.04
48:BP:10:PRO:HG2	48:BP:18:ALA:HB1	1.38	1.04
24:A0:51:LEU:HD23	24:A0:66:VAL:HG22	1.34	1.04
2:AA:1911:U:O2'	2:AA:1912:A:H5'	1.57	1.04
2:AA:2312:U:C5'	7:AG:53:LYS:HA	1.86	1.04
2:AA:2862:G:H2'	2:AA:2863:C:C6	1.92	1.04
2:AA:711:G:N2	2:AA:720:C:N3	2.06	1.04
2:AA:962:G:H2'	2:AA:963:U:C6	1.92	1.04
6:AF:161:ASP:O	6:AF:162:VAL:HG23	1.57	1.04
13:AN:42:THR:HG21	13:AN:57:VAL:HA	1.37	1.04
23:AX:8:LEU:HA	23:AX:54:VAL:CG1	1.87	1.04
34:BA:1266:G:H2'	34:BA:1268:A:OP2	1.56	1.04
34:BA:1399:C:H4'	34:BA:1400:C:O5'	1.54	1.04
34:BA:328:C:H4'	34:BA:329:A:O5'	1.52	1.04
34:BA:93:G:H2'	34:BA:95:U:O4'	1.56	1.04
42:BJ:126:ASP:O	42:BJ:129:GLU:HB2	1.58	1.04
34:BA:761:G:H5''	52:BT:102:GLY:HA3	1.39	1.04
35:BB:37:G:N2	36:B1:63:C:C4	2.25	1.04
5:AE:226:HIS:HA	5:AE:229:GLN:HG3	1.34	1.04
10:AK:3:VAL:CB	10:AK:19:LYS:O	2.05	1.04
10:AK:7:LYS:CA	10:AK:14:LYS:HG2	1.88	1.04
34:BA:754:C:H5'	34:BA:755:G:H8	1.14	1.04
35:BB:34:G:N2	35:BB:35:A:N1	2.02	1.04
39:BG:58:LEU:HD13	39:BG:59:ARG:NH1	1.73	1.04
46:BN:61:ALA:HB1	46:BN:94:ALA:HB2	1.06	1.04
2:AA:1791:A:O2'	4:AD:204:PHE:HB2	1.58	1.04
2:AA:2043:C:C5	2:AA:2777:G:H1'	1.93	1.04
2:AA:2624:G:H1'	29:A5:22:HIS:NE2	1.72	1.04
6:AF:37:ALA:HB1	6:AF:107:ARG:NH2	1.72	1.04
21:AV:148:THR:HG22	21:AV:168:VAL:H	1.21	1.04
23:AX:9:VAL:H	23:AX:54:VAL:HG12	0.91	1.04
34:BA:1004:A:H5''	34:BA:1025:U:C5	1.93	1.04
34:BA:263:A:O2'	34:BA:264:U:H5''	1.56	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BJ:69:VAL:CG1	42:BJ:104:LEU:HD21	1.87	1.04
48:BP:77:ASN:HB2	48:BP:80:ARG:NH1	1.73	1.04
51:BS:6:LEU:HD23	51:BS:17:TYR:HD2	1.18	1.04
35:BB:1:G:C6	35:BB:73:A:N1	2.25	1.04
55:BW:8:ARG:NH1	55:BW:8:ARG:HB2	1.72	1.04
2:AA:1050:A:O2'	2:AA:1051:G:H5'	1.58	1.04
2:AA:1142:U:H6	2:AA:142(A):A:H5'	1.15	1.03
2:AA:1771:C:N4	2:AA:1980:G:H1	1.56	1.03
2:AA:574:C:H41	2:AA:2054:A:H5''	1.21	1.03
1:AB:46:A:H2'	1:AB:47:C:C6	1.93	1.03
6:AF:194:PHE:CZ	6:AF:207:LEU:HD12	1.93	1.03
9:AI:80:ILE:HG23	9:AI:103:LYS:HD2	1.38	1.03
13:AN:102:VAL:HG12	13:AN:103:ALA:H	1.20	1.03
16:AQ:27:LEU:HB2	16:AQ:33:ARG:NH2	1.73	1.03
17:AR:53:ASP:HA	17:AR:56:ARG:HG3	1.40	1.03
18:AS:38:TYR:HB3	29:A5:41:LEU:HD21	1.32	1.03
34:BA:1192:C:H3'	34:BA:1192:C:H6	1.15	1.03
24:A0:52:ILE:HD13	24:A0:94:TYR:HB3	1.39	1.03
26:A2:78:VAL:HG23	26:A2:82:ARG:HB2	1.41	1.03
2:AA:1422:G:H2'	2:AA:1423:G:H8	1.20	1.03
2:AA:1746:G:H2'	2:AA:1747:G:C8	1.93	1.03
2:AA:2312:U:H5'	7:AG:53:LYS:HA	1.07	1.03
9:AJ:102:ILE:HG21	9:AJ:118:LEU:HD11	1.38	1.03
13:AN:64:ARG:HH22	13:AN:100:GLY:CA	1.70	1.03
13:AN:97:ARG:HA	13:AN:117:LEU:HD12	1.38	1.03
1:AB:115:G:H5'	16:AQ:59:ALA:CB	1.87	1.03
34:BA:1261:A:H61	34:BA:1274:G:H1'	1.17	1.03
34:BA:715:A:H4'	34:BA:777:A:H61	1.23	1.03
34:BA:781:A:H2'	34:BA:782:A:H5'	1.36	1.03
35:BB:59:U:O2	35:BB:60:C:C2	2.10	1.03
48:BP:74:VAL:HG12	48:BP:78:ILE:HD11	1.38	1.03
34:BA:277:C:H5''	52:BT:68:ARG:NH2	1.73	1.03
53:BU:46:GLU:HB3	53:BU:85:LEU:CD1	1.88	1.03
10:AK:124:LEU:HG	10:AK:145:VAL:O	1.56	1.03
2:AA:1482:U:H3'	2:AA:1482:U:H6	1.15	1.03
2:AA:2295:C:N3	2:AA:2337:G:N2	2.04	1.03
2:AA:271(B):G:H4'	2:AA:271(C):U:OP2	1.56	1.03
14:AO:67:ARG:HH12	14:AO:109:LEU:HD12	1.18	1.03
22:AW:19:GLU:O	22:AW:23:LEU:HG	1.58	1.03
34:BA:332:G:O2'	34:BA:333:G:H5'	1.58	1.03
31:A7:34:ARG:NH1	31:A7:42:LEU:HD23	1.72	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1781:C:H5'	2:AA:1782:C:OP1	1.58	1.03
2:AA:2520:C:O2'	2:AA:2521:C:H5'	1.58	1.03
2:AA:2616:C:H2'	2:AA:2617:C:H6	0.89	1.03
2:AA:669:G:H5''	2:AA:670:A:OP2	1.58	1.03
2:AA:2679:A:N3	5:AE:300:VAL:HG13	1.73	1.03
11:AL:25:GLY:HA2	11:AL:35:ILE:HD13	1.33	1.03
15:AP:45:GLN:HB2	15:AP:152:SER:O	1.57	1.03
15:AP:66:ASN:HB2	15:AP:70:ARG:HH21	0.88	1.03
46:BN:111:ASP:OD2	46:BN:113:PRO:HD3	1.57	1.03
47:BO:35:GLY:O	47:BO:82:VAL:HA	1.57	1.03
51:BS:20:VAL:HG22	51:BS:35:LYS:HA	1.40	1.03
25:A1:9:VAL:HG12	25:A1:13:ARG:NH2	1.72	1.03
25:A1:98:ILE:HG13	26:A2:13:ARG:NH2	1.73	1.03
2:AA:1128:A:N6	2:AA:2518:A:H61	1.56	1.03
2:AA:629:G:H21	2:AA:640:C:P	1.81	1.03
8:AH:159:LYS:H	8:AH:162:ARG:NH1	1.56	1.03
12:AM:12:VAL:CB	12:AM:38:VAL:HG22	1.89	1.03
36:B1:59:A:H2'	36:B1:60:A:C5'	1.88	1.03
39:BG:83:SER:HA	39:BG:89:THR:OG1	1.57	1.03
43:BK:19:VAL:HG23	43:BK:21:LYS:HG2	1.39	1.03
2:AA:1140:C:N3	12:AM:49:ARG:NH2	2.07	1.03
2:AA:1169:G:H1	2:AA:1180:C:N4	1.55	1.03
2:AA:1364:G:H3'	28:A4:3:LYS:CD	1.88	1.03
2:AA:2115:G:H4'	3:AC:126:LYS:HE2	1.40	1.03
2:AA:2491:U:O2	2:AA:2491:U:H2'	1.56	1.03
4:AD:135:PRO:HG2	4:AD:138:THR:HG21	1.39	1.03
10:AK:4:ILE:CB	10:AK:37:ILE:O	2.06	1.03
34:BA:854:G:H3'	34:BA:871:U:O4	1.57	1.03
39:BG:107:ARG:HH11	39:BG:107:ARG:HA	1.19	1.03
39:BG:128:VAL:HG21	39:BG:133:VAL:HG23	1.38	1.03
21:AV:143:ILE:HG22	21:AV:144:GLY:H	1.23	1.03
26:A2:75:LYS:HA	26:A2:75:LYS:HE2	1.40	1.03
2:AA:16:G:H4'	29:A5:18:MET:CE	1.86	1.03
2:AA:2107:C:N3	2:AA:2182:G:N2	2.06	1.03
2:AA:792:G:H21	2:AA:2072:G:H1'	0.92	1.03
17:AR:6:CYS:HB3	17:AR:9:CYS:HB3	1.04	1.03
21:AV:3:LEU:HB3	21:AV:34:LEU:HB3	1.38	1.03
34:BA:933:G:OP2	42:BJ:3:ARG:HG3	1.57	1.03
25:A1:8:ILE:HA	25:A1:11:ARG:HD2	1.41	1.03
28:A4:58:LYS:O	28:A4:61:LYS:HB2	1.57	1.03
2:AA:818:G:N2	2:AA:1189:A:H62	1.55	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:748:G:H3'	2:AA:750:A:OP2	1.55	1.03
2:AA:823:G:H2'	2:AA:824:A:H8	1.16	1.03
2:AA:955:C:O2'	2:AA:956:G:H5'	1.58	1.03
6:AF:55:ARG:HG3	6:AF:56:THR:N	1.67	1.03
8:AH:15:THR:HG22	8:AH:26:LYS:O	1.56	1.03
12:AM:135:ILE:CG2	12:AM:139:LEU:HD11	1.89	1.03
34:BA:1046:A:H2'	34:BA:1046:A:N3	1.73	1.03
38:BF:82:GLU:HG3	38:BF:83:ARG:H	1.19	1.03
43:BK:44:PHE:HE2	43:BK:109:ILE:HD13	1.21	1.03
46:BN:110:ASP:HB2	53:BU:88:LYS:HG3	1.41	1.03
35:BB:9:A:C2	35:BB:45:G:C5	2.46	1.03
23:AX:3:ARG:HB2	23:AX:60:GLU:HA	1.38	1.03
27:A3:69:PHE:O	27:A3:70:ILE:HD13	1.58	1.03
2:AA:1061:U:H4'	2:AA:1070:A:H1'	1.40	1.03
2:AA:2180:U:H2'	2:AA:2181:G:C8	1.93	1.03
2:AA:2884:U:H2'	2:AA:2885:C:O4'	1.55	1.03
2:AA:324:A:H62	2:AA:339:U:H1'	0.89	1.03
2:AA:25:U:H3	2:AA:515:A:N6	1.57	1.03
6:AF:239:ALA:HB1	6:AF:242:GLU:OE2	1.59	1.03
7:AG:134:LEU:HD13	7:AG:136:ARG:HE	1.22	1.03
14:AO:94:ARG:HD2	14:AO:119:THR:O	1.57	1.03
15:AP:134:PHE:O	15:AP:137:ARG:HB3	1.58	1.03
15:AP:58:HIS:CG	15:AP:59:ASN:H	1.74	1.03
21:AV:98:VAL:HA	21:AV:134:LEU:O	1.57	1.03
21:AV:71:MET:HB3	21:AV:78:PRO:HD3	1.36	1.03
40:BH:10:MET:HA	40:BH:32:VAL:HG22	1.37	1.03
40:BH:79:GLU:OE1	43:BK:105:ARG:HB2	1.57	1.03
46:BN:15:ALA:HA	46:BN:78:GLN:NE2	1.73	1.03
38:BF:29:TYR:CE2	49:BQ:54:PRO:HG2	1.94	1.03
28:A4:17:GLN:HA	28:A4:33:VAL:HB	1.35	1.03
2:AA:1520:U:H2'	2:AA:1521:G:H5''	1.41	1.03
2:AA:2122:U:O2'	3:AC:166:ASP:HB2	1.58	1.03
4:AD:210:LYS:O	4:AD:213:LYS:CB	2.06	1.03
6:AF:22:PHE:CZ	6:AF:115:LEU:HB3	1.93	1.03
13:AN:60:ALA:HB1	13:AN:85:VAL:O	1.56	1.03
34:BA:1308:U:H3'	48:BP:99:ARG:HH12	0.89	1.03
38:BF:33:LEU:HD11	49:BQ:54:PRO:CD	1.88	1.03
39:BG:31:CYS:HB3	39:BG:33:MET:SD	1.98	1.03
43:BK:37:ARG:HD2	43:BK:38:ILE:HD13	1.41	1.03
45:BM:32:ALA:HB2	45:BM:76:ASN:ND2	1.74	1.03
35:BB:37:G:C8	35:BB:38:A:N7	2.26	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A1:18:LEU:O	25:A1:21:ALA:HB3	1.59	1.02
29:A5:15:LYS:HB2	29:A5:15:LYS:HZ2	1.09	1.02
2:AA:1726:G:H2'	2:AA:1727:U:H5'	1.36	1.02
2:AA:2469:A:H5'	2:AA:2469:A:H8	1.23	1.02
2:AA:2619:C:O2'	2:AA:2620:C:H5'	1.59	1.02
2:AA:339:U:H2'	2:AA:340:A:C8	1.93	1.02
2:AA:775:G:H2'	2:AA:794:G:N7	1.71	1.02
2:AA:791:C:O2'	2:AA:792:G:H5'	1.58	1.02
5:AE:211:GLN:HG2	5:AE:212:GLY:H	0.90	1.02
5:AE:222:ARG:HH11	5:AE:222:ARG:HG3	0.91	1.02
8:AH:67:THR:HG22	8:AH:71:LEU:HD11	1.39	1.02
10:AK:7:LYS:CG	10:AK:12:LYS:HG2	1.89	1.02
20:AU:48:VAL:HG13	20:AU:97:ARG:O	1.58	1.02
34:BA:61:G:H2'	34:BA:62:U:O4'	1.59	1.02
34:BA:975:A:H4'	34:BA:976:G:H5'	1.37	1.02
25:A1:17:VAL:O	25:A1:20:ARG:HB2	1.59	1.02
2:AA:1024:G:N2	2:AA:1139:G:N2	2.06	1.02
2:AA:2681:C:O2'	2:AA:2682:U:H5'	1.58	1.02
3:AC:124:GLY:HA2	3:AC:137:LEU:HD11	1.38	1.02
4:AD:76:ARG:CG	4:AD:113:MET:HB3	1.89	1.02
5:AE:180:ILE:HA	5:AE:183:ASP:CG	1.79	1.02
8:AH:85:ALA:HA	8:AH:131:ILE:HG22	1.39	1.02
9:AJ:80:ILE:HG23	9:AJ:103:LYS:HD2	1.35	1.02
38:BF:139:GLN:O	38:BF:143:GLU:HB2	1.58	1.02
39:BG:31:CYS:HB3	39:BG:33:MET:CG	1.89	1.02
42:BJ:65:ALA:HA	42:BJ:68:ASN:HD22	1.21	1.02
10:AK:77:VAL:HG21	10:AK:141:LEU:HD11	1.41	1.02
10:AK:75:LEU:HD13	10:AK:76:THR:H	1.18	1.02
2:AA:109:G:N2	2:AA:110:G:H1'	1.73	1.02
2:AA:1429:G:H2'	2:AA:1430:C:C6	1.94	1.02
2:AA:1936:A:H5'	2:AA:1937:A:C2	1.94	1.02
2:AA:2737:G:H1	2:AA:2767:C:N4	1.56	1.02
2:AA:514:A:H2'	2:AA:515:A:H8	1.21	1.02
2:AA:980:A:H2'	2:AA:981:A:C8	1.94	1.02
8:AH:114:ILE:HG13	8:AH:147:ILE:HD11	1.36	1.02
8:AH:58:LYS:O	8:AH:61:ARG:HB3	1.59	1.02
10:AK:7:LYS:HG3	10:AK:12:LYS:HG2	1.40	1.02
23:AX:31:LEU:HD22	23:AX:32:GLN:H	0.86	1.02
34:BA:190(F):G:H4'	34:BA:190(G):G:OP2	1.54	1.02
34:BA:710:G:O2'	34:BA:711:G:H5'	1.59	1.02
39:BG:141:ARG:HB3	39:BG:142:PRO:HD2	1.40	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:A0:96:ARG:NH2	24:A0:117:VAL:HG23	1.73	1.02
24:A0:96:ARG:HH21	24:A0:117:VAL:HG23	0.87	1.02
25:A1:27:SER:O	25:A1:31:GLN:HG3	1.60	1.02
2:AA:1031:G:H1	2:AA:1123:C:N4	1.55	1.02
2:AA:1082:U:O2	9:AI:3:ILE:HG23	1.59	1.02
2:AA:1252:G:C8	2:AA:1253:A:H1'	1.95	1.02
2:AA:1965:C:H3'	2:AA:1966:A:C8	1.93	1.02
34:BA:1239:A:H2'	34:BA:1298:C:N4	1.75	1.02
38:BF:36:ASP:O	38:BF:39:ILE:HB	1.56	1.02
2:AA:1482:U:H1'	2:AA:1512:G:N2	1.74	1.02
2:AA:640:C:H2'	2:AA:641:C:H5'	1.35	1.02
2:AA:671:C:N4	2:AA:809:G:N1	2.02	1.02
2:AA:978:G:N2	2:AA:985:C:N3	2.06	1.02
34:BA:386:C:C2'	34:BA:387:U:H5'	1.88	1.02
39:BG:26:CYS:O	39:BG:31:CYS:HB2	1.60	1.02
2:AA:1465:G:H2'	2:AA:1466:G:C8	1.94	1.02
2:AA:2495:G:H4'	15:AP:101:MET:CG	1.89	1.02
2:AA:2649:U:H2'	2:AA:2650:U:C6	1.94	1.02
2:AA:2658:C:H2'	2:AA:2659:G:H5'	1.38	1.02
2:AA:873:G:OP1	15:AP:30:GLN:HB3	1.57	1.02
2:AA:955:C:OP2	15:AP:10:ILE:HB	1.60	1.02
2:AA:974(A):C:H6	2:AA:1186:G:N1	1.56	1.02
7:AG:93:LEU:HD13	7:AG:106:PHE:CE2	1.94	1.02
12:AM:10:VAL:HB	12:AM:36:VAL:HA	1.36	1.02
6:AF:61:PHE:HB3	6:AF:65:ARG:NH1	1.72	1.02
24:A0:67:LEU:HD21	24:A0:72:ASP:H	1.24	1.02
32:A8:16:ILE:HD12	32:A8:16:ILE:N	1.74	1.02
2:AA:1697:G:H5''	2:AA:1698:A:C5'	1.89	1.02
2:AA:1967:C:H42	2:AA:1968:G:N2	1.58	1.02
2:AA:2397:G:N2	2:AA:2420:C:H1'	1.75	1.02
2:AA:285:C:H42	2:AA:354:G:N2	1.58	1.02
2:AA:234:C:N3	2:AA:430:G:N2	2.06	1.02
4:AD:143:ILE:HD12	4:AD:143:ILE:H	1.19	1.02
6:AF:32:GLY:HA3	6:AF:36:ARG:HH21	1.21	1.02
7:AG:51:ARG:HH11	7:AG:72:LYS:HB2	1.24	1.02
16:AQ:102:LEU:HG	16:AQ:129:ILE:HD12	1.41	1.02
21:AV:168:VAL:HG12	21:AV:169:VAL:N	1.73	1.02
22:AW:53:ILE:HG22	22:AW:57:LYS:HE3	1.07	1.02
34:BA:92:C:H2'	34:BA:93:G:H8	1.19	1.02
38:BF:52:LEU:HA	38:BF:70:VAL:HG22	1.36	1.02
47:BO:41:ARG:HG2	47:BO:42:THR:N	1.74	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BS:26:ARG:HH21	51:BS:31:LYS:HE3	1.24	1.02
2:AA:535:C:H4'	25:A1:53:LYS:HE2	1.42	1.02
2:AA:2581:G:H1	2:AA:2610:C:C1'	1.71	1.02
2:AA:2731:G:H5'	5:AE:265:ASN:OD1	1.58	1.02
5:AE:271:ILE:HG12	5:AE:294:THR:HA	1.40	1.02
6:AF:140:VAL:HG11	6:AF:236:THR:HG22	1.42	1.02
6:AF:55:ARG:O	6:AF:79:ARG:NH2	1.93	1.02
34:BA:313:A:H2'	34:BA:314:C:H6	1.13	1.02
34:BA:551:U:H2'	34:BA:552:U:C6	1.94	1.02
34:BA:734:G:H2'	34:BA:735:C:C6	1.95	1.02
37:BE:108:ILE:O	37:BE:112:VAL:HG23	1.60	1.02
38:BF:19:GLU:CA	38:BF:54:ARG:HH21	1.73	1.02
41:BI:77:ARG:HA	41:BI:80:ARG:HD2	1.05	1.02
43:BK:39:LEU:HB3	43:BK:45:ILE:CG2	1.88	1.02
38:BF:153:VAL:HB	38:BF:166:GLU:HB3	1.39	1.02
2:AA:1171:G:H3'	2:AA:1173:G:H5''	1.40	1.02
2:AA:1698:A:O2'	2:AA:1699:G:H3'	1.59	1.02
2:AA:2324:C:N3	2:AA:2331:G:N2	2.07	1.02
2:AA:2403:C:N4	2:AA:2414:G:H1	1.56	1.02
2:AA:2485:G:O2'	2:AA:2486:G:H5'	1.58	1.02
2:AA:341:G:H2'	2:AA:342:G:O4'	1.59	1.02
6:AF:53:GLY:C	6:AF:54:LEU:HG	1.73	1.02
23:AX:22:ALA:HA	23:AX:46:ASN:HD21	1.24	1.02
34:BA:821:G:H2'	34:BA:822:C:H6	1.25	1.02
37:BE:55:PHE:HE2	37:BE:218:ALA:HA	1.23	1.02
39:BG:141:ARG:HB2	39:BG:144:ASP:OD2	1.60	1.02
47:BO:53:ARG:HG3	47:BO:69:TYR:OH	1.60	1.02
2:AA:1157:G:H3'	2:AA:1157:G:OP2	1.60	1.02
2:AA:2206:C:H2'	2:AA:2207:C:O4'	1.60	1.02
2:AA:2295:C:N4	2:AA:2337:G:N1	2.06	1.02
2:AA:2658:C:C2'	2:AA:2659:G:H5'	1.90	1.02
2:AA:2712:U:H3'	2:AA:2714:G:OP2	1.59	1.02
2:AA:612:G:H4'	2:AA:616:A:C6	1.94	1.02
1:AB:104:A:H1'	21:AV:24:TYR:OH	1.60	1.02
4:AD:115:ILE:HB	4:AD:127:ASN:OD1	1.60	1.02
4:AD:128:ALA:CB	4:AD:190:THR:HG22	1.90	1.02
12:AM:73:LYS:HB3	12:AM:140:GLY:CA	1.88	1.02
14:AO:92:ASP:HB3	14:AO:118:LEU:HB3	1.05	1.02
19:AT:23:LYS:N	19:AT:68:LEU:HG	1.75	1.02
37:BE:200:ILE:HG22	37:BE:202:PRO:HD3	1.38	1.02
41:BI:23:LYS:HA	41:BI:26:ILE:CD1	1.89	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:826:C:H1'	43:BK:15:ASN:ND2	1.73	1.02
43:BK:63:LEU:H	43:BK:63:LEU:HD13	0.90	1.02
53:BU:21:LYS:NZ	53:BU:23:LYS:HB2	1.74	1.02
10:AK:110:LEU:HD11	10:AK:133:LEU:HD22	1.42	1.02
26:A2:50:ASP:N	26:A2:53:LYS:HD2	1.72	1.01
2:AA:584:C:N4	2:AA:1256:G:H1	1.58	1.01
2:AA:1612:C:N3	2:AA:1619:G:N2	2.08	1.01
2:AA:2464:C:N4	2:AA:2486:G:N1	2.00	1.01
2:AA:898:C:H3'	2:AA:899:A:H5''	1.37	1.01
2:AA:930:U:H2'	2:AA:931:G:C1'	1.90	1.01
2:AA:974(A):C:O4'	2:AA:1186:G:N2	1.93	1.01
8:AH:93:TYR:CZ	8:AH:106:VAL:HG13	1.93	1.01
21:AV:91:PRO:HD2	21:AV:127:PRO:HB3	1.39	1.01
25:A1:57:PHE:HA	25:A1:60:LEU:CD1	1.88	1.01
2:AA:1451:C:H3'	2:AA:1453:A:H4'	1.40	1.01
2:AA:164:U:O2	2:AA:171:G:H4'	1.59	1.01
2:AA:1752:C:N4	2:AA:1756:G:H1	1.58	1.01
2:AA:270(A):A:H62	2:AA:270(Z):U:H5''	1.20	1.01
2:AA:955:C:N3	2:AA:962:G:N2	2.07	1.01
1:AB:8:U:O2	1:AB:112:G:O6	1.76	1.01
11:AL:75:ALA:HB3	11:AL:131:THR:HG21	1.42	1.01
10:AK:94:THR:CG2	10:AK:97:GLN:HG3	1.89	1.01
29:A5:15:LYS:HA	29:A5:18:MET:HG2	1.38	1.01
2:AA:2125:G:O2'	2:AA:2126:A:H4'	1.57	1.01
2:AA:291:C:N3	2:AA:349:G:N2	2.07	1.01
2:AA:775:G:H5''	2:AA:777:A:H1'	1.42	1.01
2:AA:1183:G:OP1	23:AX:29:ARG:HG3	1.58	1.01
39:BG:148:VAL:HB	39:BG:181:MET:HE1	1.38	1.01
52:BT:75:ARG:HH11	52:BT:75:ARG:HG3	1.23	1.01
26:A2:78:VAL:HB	26:A2:80:TYR:CD1	1.94	1.01
2:AA:1534:G:N3	2:AA:1534:G:H2'	1.75	1.01
2:AA:1689:A:H2'	2:AA:1690:A:H8	1.22	1.01
2:AA:1697:G:H5''	2:AA:1698:A:H5'	1.04	1.01
2:AA:1936:A:C1'	2:AA:1940:U:N3	2.22	1.01
2:AA:2148:G:H2'	2:AA:2149:G:O4'	1.58	1.01
2:AA:2371:G:H5'	30:A6:46:LYS:HD3	1.42	1.01
2:AA:675:A:O2'	2:AA:676:A:H5'	1.58	1.01
6:AF:82:GLN:H	6:AF:87:ARG:HD3	1.22	1.01
12:AM:52:GLN:HA	12:AM:55:GLU:HG3	1.42	1.01
2:AA:557:U:C4'	12:AM:92:GLN:HE21	1.72	1.01
18:AS:55:ALA:HA	18:AS:107:LEU:HD12	1.38	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1539:C:N3	36:B1:50:G:N2	2.09	1.01
34:BA:1268:A:H4'	56:BX:20:LYS:HA	1.39	1.01
34:BA:944:G:H21	34:BA:1339:A:H62	1.06	1.01
34:BA:741:G:H2'	34:BA:742:G:H8	1.26	1.01
37:BE:115:LEU:HA	37:BE:118:LEU:HD12	1.39	1.01
37:BE:61:LEU:HA	37:BE:64:ARG:CD	1.90	1.01
43:BK:24:THR:O	43:BK:60:ARG:HG3	1.60	1.01
50:BR:36:ILE:HD12	50:BR:63:ARG:HD3	1.02	1.01
35:BB:28:C:O2'	35:BB:29:A:H5'	1.60	1.01
2:AA:1058:G:H1'	9:AI:3:ILE:HG13	1.07	1.01
2:AA:214:G:N2	2:AA:215:G:C2	2.27	1.01
2:AA:589:C:N3	2:AA:668:G:N2	2.05	1.01
3:AC:99:ILE:HG23	3:AC:107:TRP:CZ3	1.96	1.01
5:AE:42:ALA:O	5:AE:75:THR:HG21	1.60	1.01
6:AF:3:ALA:HB3	6:AF:16:VAL:O	1.59	1.01
15:AP:42:TYR:HA	21:AV:119:ASN:ND2	1.74	1.01
34:BA:668:G:H1	34:BA:738:C:N4	1.57	1.01
34:BA:858:G:H22	34:BA:869:G:H2'	0.85	1.01
48:BP:90:LEU:HD23	48:BP:93:ARG:HH11	1.24	1.01
50:BR:38:ARG:HH11	50:BR:38:ARG:HB3	0.86	1.01
2:AA:1935:G:N2	2:AA:1962:C:C2'	2.22	1.01
2:AA:2397:G:H2'	2:AA:2398:U:H6	1.26	1.01
2:AA:2781:A:H5''	2:AA:2782:G:H5'	1.38	1.01
2:AA:2819:G:H3'	2:AA:2821:A:H62	1.24	1.01
2:AA:775:G:N2	2:AA:787:U:C2'	2.23	1.01
2:AA:930:U:H2'	2:AA:931:G:H1'	1.02	1.01
5:AE:211:GLN:HG2	5:AE:212:GLY:N	1.71	1.01
10:AK:6:LEU:HB3	10:AK:35:LEU:O	1.60	1.01
2:AA:2495:G:C4'	15:AP:101:MET:HG3	1.91	1.01
23:AX:8:LEU:HA	23:AX:54:VAL:HG11	1.37	1.01
34:BA:129(A):G:N2	34:BA:190(G):G:C5	2.28	1.01
37:BE:9:GLU:HG2	37:BE:217:ARG:NH2	1.75	1.01
51:BS:5:ARG:HH12	51:BS:24:ALA:HA	1.25	1.01
26:A2:61:VAL:HG22	26:A2:97:GLY:HA2	1.36	1.01
2:AA:997:G:OP1	25:A1:92:ARG:HB2	1.60	1.01
8:AH:121:GLU:OE2	8:AH:134:GLY:HA2	1.61	1.01
13:AN:22:ILE:HG13	13:AN:41:ALA:HA	1.42	1.01
15:AP:67:ALA:CA	15:AP:70:ARG:HD2	1.91	1.01
42:BJ:50:ILE:HD12	42:BJ:58:PRO:CB	1.90	1.01
55:BW:45:GLN:N	55:BW:91:LEU:HD13	1.76	1.01
56:BX:12:LYS:HB3	56:BX:18:TYR:CD2	1.95	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A1:66:ASN:HA	25:A1:76:TYR:CZ	1.95	1.01
2:AA:1174:A:C2	2:AA:1175:U:H3'	1.94	1.01
2:AA:1492:G:H1	2:AA:1498:C:N4	1.59	1.01
2:AA:2447:G:H3'	2:AA:2500:U:OP2	1.60	1.01
15:AP:16:ARG:CB	15:AP:16:ARG:HH11	1.73	1.01
17:AR:10:GLY:CA	17:AR:52:THR:HB	1.90	1.01
35:BC:34:G:N2	36:B1:62:G:H22	1.59	1.01
34:BA:362:G:P	47:BO:34:ARG:HH22	1.82	1.01
34:BA:409:G:H1	34:BA:433:C:N4	1.57	1.01
18:AS:86:LEU:HD22	18:AS:87:PRO:HD3	1.39	1.01
27:A3:38:VAL:HA	27:A3:40:GLN:NE2	1.76	1.01
31:A7:17:GLY:HA2	31:A7:44:VAL:HG23	1.41	1.01
2:AA:2360:A:OP1	32:A8:49:VAL:HG13	1.61	1.01
2:AA:2584:U:H2'	2:AA:2585:U:C6	1.95	1.01
2:AA:2688:U:H2'	2:AA:2688:U:O2	1.60	1.01
2:AA:679:C:O2	2:AA:679:C:H2'	1.57	1.01
2:AA:687:C:O2	2:AA:787:U:O3'	1.77	1.01
2:AA:1819:A:OP1	4:AD:154:VAL:HA	1.61	1.01
6:AF:166:ILE:O	6:AF:168:ARG:HG3	1.60	1.01
6:AF:55:ARG:C	6:AF:79:ARG:NE	2.13	1.01
14:AO:94:ARG:HH11	14:AO:120:LEU:HB2	1.25	1.01
16:AQ:10:MET:HB2	16:AQ:13:ARG:NH2	1.76	1.01
7:AG:146:LYS:HG3	16:AQ:15:GLU:HG3	1.41	1.01
19:AT:9:HIS:HB2	19:AT:26:PHE:HA	1.39	1.01
21:AV:49:THR:HG22	21:AV:97:PRO:HD3	1.42	1.01
23:AX:26:LEU:CD1	23:AX:47:VAL:HG22	1.89	1.01
34:BA:1073:U:H2'	34:BA:1074:G:C8	1.96	1.01
34:BA:15:G:H2'	34:BA:16:A:H8	1.14	1.01
34:BA:582:U:H5'	50:BR:64:ARG:NH2	1.75	1.01
35:BC:37:G:H2'	35:BC:38:A:H8	0.87	1.01
34:BA:1226:C:C5	48:BP:104:ARG:HA	1.95	1.01
34:BA:192:U:H1'	55:BW:103:GLY:CA	1.91	1.01
28:A4:67:TYR:O	28:A4:68:ARG:HG3	1.60	1.01
2:AA:2180:U:H2'	2:AA:2181:G:H8	1.20	1.01
2:AA:623:G:H2'	2:AA:624:C:H6	1.26	1.01
4:AD:89:ASN:HD21	4:AD:199:ARG:CZ	1.74	1.01
5:AE:222:ARG:N	5:AE:222:ARG:HD2	1.76	1.01
5:AE:269:ILE:HA	5:AE:297:LYS:NZ	1.76	1.01
13:AN:42:THR:HG22	13:AN:58:VAL:H	1.23	1.01
34:BA:131:C:N4	34:BA:231:G:N1	1.98	1.01
34:BA:748:C:H6	34:BA:748:C:O5'	1.43	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:51:G:H1	35:BB:63:C:N4	1.58	1.01
39:BG:104:VAL:HG21	39:BG:140:VAL:HG21	1.41	1.01
42:BJ:37:ASN:HD22	42:BJ:38:LEU:N	1.59	1.01
45:BM:27:ALA:HB2	45:BM:85:LEU:HD11	1.43	1.01
46:BN:95:ILE:O	46:BN:98:LEU:HB2	1.61	1.01
53:BU:56:THR:HB	53:BU:58:LEU:HG	1.41	1.01
55:BW:40:ALA:HB2	55:BW:55:ILE:CG2	1.91	1.01
28:A4:21:VAL:HG12	28:A4:22:MET:H	1.23	1.00
2:AA:1364:G:C3'	28:A4:3:LYS:HD3	1.91	1.00
2:AA:2135:A:H62	2:AA:2150:U:H3'	1.26	1.00
4:AD:66:PHE:HD2	4:AD:67:LYS:HE3	1.26	1.00
34:BA:1139:G:H1	34:BA:1143:G:N2	1.58	1.00
34:BA:279:A:H1'	34:BA:281:G:N3	1.77	1.00
35:BB:53:G:O2'	35:BB:54:U:H5'	1.60	1.00
35:BB:66:A:H3'	35:BB:67:A:H8	1.26	1.00
39:BG:24:GLU:O	39:BG:27:TYR:HB2	1.60	1.00
47:BO:27:LEU:HD23	47:BO:33:ARG:NH1	1.76	1.00
53:BU:21:LYS:HA	53:BU:55:ARG:HH12	1.19	1.00
2:AA:1288:U:H5''	2:AA:1289:C:OP2	1.61	1.00
2:AA:1530:G:P	2:AA:1539:G:H1	1.83	1.00
2:AA:1571:A:H3'	2:AA:1571:A:N3	1.76	1.00
2:AA:1650:G:O2'	2:AA:1651:G:H5'	1.59	1.00
4:AD:78:ALA:CB	4:AD:92:LEU:O	2.07	1.00
6:AF:93:LYS:HB2	6:AF:96:LYS:HG3	1.42	1.00
34:BA:1139:G:H22	34:BA:1143:G:H1	1.09	1.00
34:BA:1144:G:H22	34:BA:1146:A:H62	1.09	1.00
41:BI:33:TYR:CD1	41:BI:75:LEU:HD23	1.95	1.00
41:BI:81:ILE:HG22	41:BI:82:ARG:N	1.75	1.00
42:BJ:50:ILE:HD12	42:BJ:58:PRO:HB3	1.06	1.00
43:BK:113:SER:HA	43:BK:117:GLY:O	1.59	1.00
44:BL:74:ILE:HA	44:BL:77:ILE:HD12	1.42	1.00
32:A8:16:ILE:HD13	32:A8:64:ARG:OXT	1.60	1.00
2:AA:2397:G:H2'	2:AA:2398:U:C6	1.96	1.00
2:AA:2578:G:N7	5:AE:237:ASN:ND2	2.09	1.00
8:AH:85:ALA:HA	8:AH:131:ILE:CG2	1.90	1.00
2:AA:1083:U:H3'	9:AI:36:PRO:C	1.55	1.00
34:BA:1126:U:H2'	34:BA:1127:G:H8	1.23	1.00
34:BA:1293:G:H2'	34:BA:1294:G:H8	1.27	1.00
34:BA:191:G:O2'	55:BW:102:GLY:HA2	1.61	1.00
24:A0:83:ILE:HA	24:A0:86:ARG:HG3	1.42	1.00
2:AA:1625:C:H2'	2:AA:1626:G:O4'	1.59	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:861:A:H2'	2:AA:862:G:H5'	1.42	1.00
4:AD:95:TYR:HB2	4:AD:99:GLU:O	1.61	1.00
6:AF:205:ARG:HG2	6:AF:212:VAL:HG21	1.42	1.00
20:AU:77:VAL:HA	20:AU:89:ARG:NH1	1.77	1.00
21:AV:53:ASP:HA	21:AV:65:LEU:HD21	1.43	1.00
34:BA:1339:A:H2'	34:BA:1340:A:H5'	1.42	1.00
35:BB:19:G:H4'	35:BB:20:G:OP2	1.60	1.00
35:BC:74:C:H2'	35:BC:75:C:H5''	1.44	1.00
44:BL:93:ARG:HH21	44:BL:97:LYS:HD3	1.23	1.00
55:BW:13:LEU:H	55:BW:13:LEU:HD12	1.25	1.00
2:AA:1084:A:P	9:AI:39:VAL:N	2.33	1.00
2:AA:2219:G:C2'	2:AA:2224:G:H5'	1.91	1.00
2:AA:965:C:H5'	2:AA:2273:A:H1'	1.02	1.00
2:AA:2574:G:H2'	2:AA:2575:C:C6	1.96	1.00
2:AA:618:G:H2'	2:AA:618(A):C:C6	1.95	1.00
4:AD:164:LEU:HD13	4:AD:174:ARG:NH1	1.76	1.00
5:AE:180:ILE:O	5:AE:183:ASP:HB2	1.61	1.00
5:AE:269:ILE:HA	5:AE:297:LYS:HZ3	1.23	1.00
9:AI:7:ILE:HD13	11:AL:118:ALA:HA	1.42	1.00
12:AM:44:ALA:HB3	12:AM:132:LEU:CD2	1.91	1.00
37:BE:213:LEU:HD22	37:BE:214:ILE:HD13	1.43	1.00
2:AA:138:G:H2'	2:AA:139:G:C4'	1.91	1.00
2:AA:270(B):A:O2'	2:AA:270(C):C:H6	1.43	1.00
2:AA:2715:C:H2'	2:AA:2716:U:H6	1.25	1.00
2:AA:2848:G:N2	2:AA:2849:U:H3	1.58	1.00
2:AA:295:G:C6	2:AA:344:G:C6	2.50	1.00
2:AA:997:G:H5''	25:A1:92:ARG:HD2	1.03	1.00
3:AC:123:VAL:HG12	3:AC:137:LEU:HD13	1.40	1.00
6:AF:168:ARG:O	6:AF:168:ARG:HD2	1.61	1.00
34:BA:320:C:N3	34:BA:333:G:N2	2.09	1.00
34:BA:986:A:H4'	54:BV:55:LYS:HG3	1.39	1.00
54:BV:46:GLY:H	54:BV:62:ILE:HG23	1.22	1.00
24:A0:38:VAL:HB	24:A0:39:PRO:HD3	1.40	1.00
2:AA:2386:C:C4'	27:A3:39:ARG:HE	1.74	1.00
2:AA:1451:C:H6	2:AA:1453:A:H4'	1.22	1.00
2:AA:1468:C:C4	2:AA:1524:G:N1	2.30	1.00
2:AA:1718:G:H2'	2:AA:1725:G:C8	1.96	1.00
2:AA:271(B):G:H5''	2:AA:271(C):U:C5'	1.90	1.00
14:AO:92:ASP:HB3	14:AO:118:LEU:CB	1.91	1.00
2:AA:1129:A:C2	2:AA:2570:G:H1'	1.95	1.00
2:AA:1991:U:H6	2:AA:1991:U:H3'	1.19	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2785:C:H2'	2:AA:2786:U:C6	1.97	1.00
2:AA:974:G:H4'	2:AA:974(A):C:OP1	1.62	1.00
4:AD:139:LEU:O	4:AD:191:VAL:HB	1.62	1.00
5:AE:221:LYS:NZ	5:AE:233:ARG:HG2	1.75	1.00
5:AE:61:PRO:HB3	5:AE:69:PRO:CA	1.90	1.00
6:AF:140:VAL:HB	6:AF:236:THR:HA	1.44	1.00
6:AF:51:TYR:O	6:AF:55:ARG:HB3	1.62	1.00
15:AP:66:ASN:O	15:AP:70:ARG:HG3	1.60	1.00
34:BA:1062:U:H2'	34:BA:1063:C:C5	1.97	1.00
34:BA:760:G:H1	52:BT:105:ALA:HB2	1.26	1.00
35:BB:11:C:N3	35:BB:12:U:C4	2.29	1.00
25:A1:74:MET:HE2	25:A1:78:THR:HG21	1.39	1.00
2:AA:112:U:H6	2:AA:112:U:H5'	1.27	1.00
2:AA:1395:A:OP2	2:AA:1603:A:H5''	1.62	1.00
6:AF:238:SER:O	6:AF:241:ALA:HB3	1.61	1.00
9:AJ:71:ILE:HG12	11:AL:61:TYR:CB	1.91	1.00
11:AL:55:PRO:HD3	11:AL:73:PRO:HB3	1.43	1.00
23:AX:22:ALA:HA	23:AX:46:ASN:ND2	1.75	1.00
35:BB:36:A:N6	36:B1:65:U:N3	2.08	1.00
34:BA:1128:C:C1'	34:BA:1146:A:H61	1.74	1.00
41:BI:39:LYS:HD3	41:BI:64:GLN:NE2	1.76	1.00
26:A2:57:GLN:HG2	26:A2:58:ALA:N	1.76	1.00
2:AA:34:C:H2'	2:AA:455:C:N4	1.77	1.00
2:AA:1826:G:OP2	4:AD:227:VAL:HG11	1.60	1.00
5:AE:216:ARG:NH2	5:AE:255:GLN:HA	1.77	1.00
5:AE:201:VAL:N	5:AE:266:LYS:HD2	1.77	1.00
7:AG:56:ARG:HD3	35:BC:56:C:O2'	1.61	1.00
16:AQ:31:LYS:NZ	16:AQ:99:GLU:HB2	1.76	1.00
18:AS:84:ARG:HA	18:AS:84:ARG:NE	1.75	1.00
34:BA:1443:G:C5'	34:BA:1446:A:H5'	1.90	1.00
34:BA:318:G:O2'	34:BA:319:G:H5'	1.59	1.00
40:BH:76:ILE:HD13	40:BH:142:LEU:HD13	1.03	1.00
47:BO:41:ARG:NH1	47:BO:57:LYS:HE3	1.77	1.00
34:BA:953:G:O2'	48:BP:125:ARG:HA	1.62	1.00
52:BT:15:MET:HB2	52:BT:18:THR:HB	1.43	1.00
10:AK:93:ILE:HG12	10:AK:121:ILE:O	1.62	1.00
24:A0:18:LEU:HD11	24:A0:22:ARG:CZ	1.92	0.99
25:A1:13:ARG:H	25:A1:13:ARG:HH11	1.10	0.99
2:AA:586:A:C6	2:AA:1254:A:C2	2.50	0.99
2:AA:1903:G:H2'	2:AA:1904:G:C8	1.96	0.99
2:AA:2468:G:O2'	2:AA:2469:A:H5'	1.61	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2472:G:H2'	2:AA:2475:C:H42	0.83	0.99
2:AA:750:A:H2'	2:AA:751:A:H5''	1.41	0.99
1:AB:103:U:H2'	1:AB:104:A:H5'	1.44	0.99
4:AD:213:LYS:C	4:AD:215:LYS:N	2.11	0.99
6:AF:34:ALA:HB2	6:AF:110:ALA:HB1	1.44	0.99
15:AP:42:TYR:HD2	21:AV:119:ASN:HA	1.21	0.99
18:AS:90:ARG:CZ	18:AS:90:ARG:HB2	1.89	0.99
21:AV:46:GLN:HE21	21:AV:50:GLY:CA	1.75	0.99
34:BA:1178:G:N2	34:BA:1180:A:H3'	1.77	0.99
39:BG:162:LEU:HD13	39:BG:181:MET:HG2	1.44	0.99
41:BI:83:ASP:CG	41:BI:84:ASN:H	1.60	0.99
42:BJ:38:LEU:HA	42:BJ:41:ARG:HG3	1.42	0.99
2:AA:808:G:H2'	2:AA:809:G:H8	1.26	0.99
2:AA:871:U:H4'	15:AP:90:PHE:CE2	1.95	0.99
4:AD:128:ALA:HB2	4:AD:190:THR:CG2	1.92	0.99
12:AM:87:LEU:HB2	12:AM:98:PHE:CZ	1.96	0.99
18:AS:42:ARG:HG2	18:AS:43:GLY:H	1.26	0.99
34:BA:1164:G:N2	34:BA:1172:C:N3	2.09	0.99
34:BA:1538:C:H42	36:B1:51:G:H1	1.04	0.99
35:BB:34:G:N1	36:B1:65:U:H2'	1.76	0.99
42:BJ:113:GLU:HG2	42:BJ:113:GLU:O	1.59	0.99
49:BQ:23:ARG:NE	49:BQ:30:ALA:HB2	1.75	0.99
50:BR:39:LEU:HD11	50:BR:56:LEU:HB2	1.41	0.99
52:BT:38:ARG:HG3	52:BT:39:SER:H	1.26	0.99
2:AA:996:A:H5''	25:A1:93:LYS:HG3	1.44	0.99
2:AA:1063:G:N2	2:AA:1075:C:N3	2.10	0.99
2:AA:1353:A:N6	2:AA:1378:A:N1	2.09	0.99
2:AA:139:G:H3'	2:AA:141(A):C:H1'	1.44	0.99
2:AA:1527:G:H1	2:AA:1544:C:N4	1.59	0.99
2:AA:1668:A:H61	2:AA:1676:A:N6	1.60	0.99
2:AA:1991:U:H2'	2:AA:1992:G:H5''	1.42	0.99
2:AA:2135:A:H2'	2:AA:2152:G:N7	1.78	0.99
2:AA:23:G:H2'	2:AA:24:G:H5'	1.45	0.99
2:AA:2712:U:H2'	2:AA:712(A):A:H5''	1.43	0.99
5:AE:211:GLN:CG	5:AE:212:GLY:H	1.73	0.99
6:AF:194:PHE:HZ	6:AF:207:LEU:HD12	1.27	0.99
2:AA:600:G:H5'	6:AF:30:LEU:CD1	1.91	0.99
9:AJ:25:LEU:HD23	9:AJ:28:LYS:HD2	1.42	0.99
13:AN:1:MET:N	13:AN:32:TYR:HD2	1.60	0.99
15:AP:33:MET:O	15:AP:83:PHE:HB2	1.61	0.99
34:BA:372:C:N4	34:BA:389:A:H62	1.59	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:66:A:H3'	35:BB:67:A:C8	1.97	0.99
37:BE:9:GLU:HB2	37:BE:217:ARG:HH12	1.23	0.99
43:BK:22:GLU:HA	43:BK:63:LEU:HD11	1.43	0.99
43:BK:12:ARG:NH1	43:BK:27:PRO:HD3	1.77	0.99
44:BL:26:VAL:HG22	44:BL:61:ALA:HB3	1.40	0.99
25:A1:98:ILE:HD11	26:A2:13:ARG:HE	1.26	0.99
27:A3:49:GLN:N	27:A3:49:GLN:HE21	1.61	0.99
2:AA:135:G:N1	2:AA:144:C:N4	2.07	0.99
2:AA:247:G:H4'	2:AA:386:G:N3	1.77	0.99
7:AG:20:LYS:HG2	7:AG:76:ARG:HG2	1.40	0.99
12:AM:23:ALA:O	12:AM:26:VAL:HB	1.60	0.99
34:BA:961:U:H3	34:BA:974:A:H61	1.09	0.99
39:BG:4:TYR:HE2	39:BG:8:VAL:HG22	1.27	0.99
39:BG:57:ARG:HH22	40:BH:107:ARG:HD3	1.24	0.99
42:BJ:138:LYS:HE2	42:BJ:142:GLU:OE1	1.63	0.99
2:AA:1128:A:H2	2:AA:1129:A:C5	1.81	0.99
2:AA:1315:C:N3	2:AA:1337:G:N2	2.10	0.99
2:AA:1691:C:C2'	2:AA:1692:U:H5'	1.92	0.99
2:AA:364:C:H2'	2:AA:365:C:C5	1.98	0.99
2:AA:897:C:H4'	35:BB:56:C:C6	1.97	0.99
3:AC:200:LYS:HB2	3:AC:208:PHE:CZ	1.97	0.99
7:AG:56:ARG:NH1	7:AG:56:ARG:HB3	1.77	0.99
13:AN:43:VAL:CG1	13:AN:54:LYS:HA	1.91	0.99
13:AN:63:VAL:HG21	13:AN:85:VAL:HG23	1.44	0.99
15:AP:16:ARG:HB2	15:AP:19:TYR:HB2	1.44	0.99
2:AA:94:G:N2	22:AW:42:ASN:HD22	1.59	0.99
34:BA:429:U:H4'	34:BA:430:A:O5'	1.61	0.99
34:BA:684:A:N3	46:BN:39:PRO:HG3	1.76	0.99
39:BG:18:LYS:HA	39:BG:33:MET:CE	1.93	0.99
42:BJ:69:VAL:HG11	42:BJ:104:LEU:HD21	1.02	0.99
34:BA:43:C:OP1	51:BS:12:LYS:HG2	1.63	0.99
52:BT:88:TYR:HA	52:BT:91:ARG:HH21	1.24	0.99
29:A5:40:LYS:CE	29:A5:46:CYS:HB2	1.93	0.99
2:AA:137(A):G:C5'	2:AA:137(A):G:N3	2.25	0.99
2:AA:1487:G:H2'	2:AA:1488:G:H8	1.27	0.99
2:AA:2431:U:H2'	2:AA:2433:A:OP2	1.62	0.99
12:AM:58:GLU:HG3	12:AM:139:LEU:HB3	1.42	0.99
13:AN:11:ALA:O	13:AN:99:PHE:HB2	1.62	0.99
13:AN:31:ARG:HB2	13:AN:32:TYR:CE1	1.97	0.99
46:BN:21:ILE:HD11	46:BN:82:VAL:HG11	1.42	0.99
50:BR:65:ARG:O	50:BR:68:ARG:HB3	1.63	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BR:74:ASP:OD1	50:BR:76:GLU:HB3	1.62	0.99
34:BA:986:A:H1'	54:BV:55:LYS:HA	1.44	0.99
10:AK:77:VAL:HB	10:AK:143:VAL:HA	1.45	0.99
2:AA:1118:C:H2'	2:AA:1119:C:O4'	1.62	0.99
25:A1:13:ARG:HB2	25:A1:13:ARG:HH11	1.26	0.99
2:AA:1026:U:H6	2:AA:1026:U:H5'	1.28	0.99
2:AA:1025:G:H1'	2:AA:1134:G:H4'	1.41	0.99
2:AA:1527:G:H2'	2:AA:1528:A:C5'	1.92	0.99
2:AA:1795:C:N4	2:AA:1824:G:H1	1.59	0.99
2:AA:2505:G:H2'	2:AA:2576:G:N2	1.78	0.99
2:AA:343:C:C2	2:AA:344:G:N3	2.31	0.99
2:AA:343:C:O2'	2:AA:344:G:H5'	1.62	0.99
2:AA:54:G:N2	2:AA:116:C:N3	2.11	0.99
2:AA:729:G:N3	2:AA:729:G:C3'	2.26	0.99
4:AD:117:SER:HB3	4:AD:128:ALA:O	1.61	0.99
6:AF:55:ARG:HG3	6:AF:56:THR:H	0.87	0.99
2:AA:1058:G:H4'	9:AI:2:THR:C	1.83	0.99
2:AA:1083:U:C3'	9:AI:37:VAL:HA	1.92	0.99
9:AI:78:ARG:HH21	9:AI:89:LYS:HG3	1.28	0.99
14:AO:64:ILE:O	14:AO:108:VAL:HA	1.61	0.99
15:AP:94:ARG:HG2	15:AP:107:LYS:O	1.60	0.99
1:AB:28:C:OP1	16:AQ:42:HIS:NE2	1.96	0.99
17:AR:10:GLY:HA3	17:AR:52:THR:HB	1.44	0.99
34:BA:386:C:H2'	34:BA:387:U:C5'	1.92	0.99
34:BA:626:U:H2'	34:BA:627:G:H8	1.24	0.99
35:BC:70:C:H2'	35:BC:71:G:H8	1.24	0.99
37:BE:69:LEU:HB3	37:BE:162:ILE:HG22	1.43	0.99
42:BJ:72:ARG:HH12	42:BJ:138:LYS:NZ	1.60	0.99
44:BL:9:ARG:O	44:BL:104:ARG:HG3	1.63	0.99
47:BO:53:ARG:HH12	47:BO:93:LEU:HD22	0.84	0.99
25:A1:57:PHE:CA	25:A1:60:LEU:HD12	1.90	0.99
2:AA:2530:A:C2'	2:AA:2531:A:H5''	1.93	0.99
2:AA:343:C:C4	2:AA:344:G:C6	2.51	0.99
1:AB:28:C:OP2	16:AQ:41:LYS:HG3	1.61	0.99
18:AS:73:ALA:HB3	18:AS:106:ILE:HD12	1.41	0.99
34:BA:408:A:H2'	34:BA:409:G:H8	1.20	0.99
38:BF:116:VAL:O	38:BF:119:ARG:HB3	1.61	0.99
43:BK:27:PRO:HB2	43:BK:32:LYS:HE2	1.40	0.99
43:BK:91:ARG:HG2	52:BT:34:LYS:H	1.26	0.99
52:BT:62:SER:CB	52:BT:72:ARG:HE	1.76	0.99
55:BW:23:ARG:O	55:BW:26:ASN:ND2	1.96	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A1:79:PHE:O	25:A1:83:LEU:HB2	1.60	0.99
25:A1:61:TRP:HZ3	25:A1:94:VAL:N	1.61	0.99
27:A3:19:LYS:HB3	27:A3:21:LEU:HG	1.44	0.99
2:AA:125:G:C5'	31:A7:19:ARG:HH11	1.76	0.99
2:AA:1309:G:P	31:A7:9:ASN:HD22	1.85	0.99
2:AA:1695:G:H2'	2:AA:1696:G:H5'	1.01	0.99
2:AA:1809:A:H62	28:A4:3:LYS:HG2	1.05	0.99
2:AA:1993:U:C4'	5:AE:228:ARG:HH21	1.75	0.99
2:AA:2207:C:H2'	2:AA:2208:U:C5'	1.92	0.99
2:AA:2602:A:OP1	35:BC:75:C:P	2.21	0.99
2:AA:293:U:H2'	2:AA:294:A:C8	1.97	0.99
2:AA:326:G:H22	2:AA:337:C:C1'	1.74	0.99
2:AA:530:G:H22	2:AA:2021:C:H5''	1.25	0.99
2:AA:783:A:H2'	2:AA:784:A:C4'	1.92	0.99
6:AF:109:LEU:HA	6:AF:112:ARG:HD2	1.41	0.99
9:AI:76:VAL:HG21	9:AI:121:ALA:HB2	1.43	0.99
9:AI:25:LEU:HD23	9:AI:28:LYS:HD2	1.44	0.99
10:AK:6:LEU:O	10:AK:6:LEU:HD13	1.60	0.99
18:AS:29:LEU:O	18:AS:33:ARG:HG3	1.61	0.99
19:AT:18:MET:SD	19:AT:25:GLN:HG2	2.02	0.99
34:BA:101:A:O2'	34:BA:102:G:H5'	1.61	0.99
34:BA:1250:A:H2'	34:BA:1251:A:C8	1.97	0.99
34:BA:1263:C:H42	34:BA:1272:G:H1	1.08	0.99
45:BM:3:LYS:HD2	45:BM:3:LYS:N	1.74	0.99
10:AK:111:ASP:CG	10:AK:112:LYS:H	1.62	0.99
2:AA:1695:G:C2'	2:AA:1696:G:H5'	1.91	0.99
2:AA:2507:C:N3	2:AA:2582:G:N2	2.11	0.99
2:AA:51:G:H5'	2:AA:52:A:OP1	1.62	0.99
2:AA:752:A:N7	2:AA:1781:C:O2	1.96	0.99
5:AE:176:HIS:O	5:AE:179:ASP:HB2	1.62	0.99
12:AM:73:LYS:CB	12:AM:140:GLY:HA3	1.92	0.99
16:AQ:102:LEU:HD12	16:AQ:102:LEU:H	1.27	0.99
34:BA:713:G:H2'	34:BA:714:G:C8	1.97	0.99
34:BA:668:G:H1'	50:BR:46:HIS:NE2	1.78	0.99
2:AA:1475:G:H2'	2:AA:1476:C:H5'	1.45	0.98
2:AA:1544:C:O2'	2:AA:1545:A:H4'	1.63	0.98
2:AA:2296:U:H6	2:AA:2296:U:H3'	1.22	0.98
2:AA:259:G:H2'	2:AA:260:G:H8	1.25	0.98
2:AA:605:C:H3'	6:AF:105:LYS:NZ	1.77	0.98
2:AA:937:U:H2'	2:AA:938:G:H8	1.24	0.98
4:AD:131:LEU:HA	4:AD:134:ILE:CD1	1.92	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:166:LYS:HD2	4:AD:171:VAL:CG1	1.93	0.98
8:AH:43:THR:HG22	8:AH:52:THR:HG22	1.45	0.98
15:AP:49:VAL:HG22	15:AP:119:ASN:O	1.62	0.98
17:AR:49:LEU:HD23	17:AR:50:GLU:N	1.77	0.98
34:BA:1159:U:H5'	34:BA:1160:G:OP1	1.63	0.98
34:BA:189:G:N2	34:BA:190(J):U:O2	1.96	0.98
35:BC:3:G:O6	35:BC:70:C:N3	1.96	0.98
35:BC:52:U:H3	35:BC:62:A:H61	1.01	0.98
38:BF:16:ARG:NH2	38:BF:184:TYR:H	1.59	0.98
38:BF:88:ARG:O	38:BF:91:LEU:HB3	1.62	0.98
46:BN:15:ALA:HA	46:BN:78:GLN:HE21	1.26	0.98
10:AK:77:VAL:CG1	10:AK:79:ILE:HD11	1.92	0.98
2:AA:1612:C:H2'	31:A7:3:ARG:NE	1.78	0.98
32:A8:5:LYS:O	32:A8:7:HIS:N	1.96	0.98
2:AA:1685:C:O2'	2:AA:1686:C:H5'	1.61	0.98
2:AA:179:G:H3'	2:AA:180:G:H8	1.24	0.98
2:AA:1364:G:C5'	2:AA:1809:A:N7	2.26	0.98
2:AA:2120:G:H1	2:AA:2178:C:H42	1.11	0.98
2:AA:2553:G:H21	2:AA:2583:G:H1'	0.84	0.98
2:AA:270(E):G:N1	2:AA:270(U):C:N4	2.10	0.98
5:AE:307:LEU:O	5:AE:309:PRO:HD3	1.63	0.98
12:AM:137:GLU:CA	12:AM:141:ALA:HB2	1.92	0.98
15:AP:20:ILE:HG13	15:AP:21:SER:H	1.27	0.98
15:AP:64:ALA:O	15:AP:67:ALA:HB3	1.63	0.98
21:AV:96:VAL:HG21	21:AV:130:ILE:HD13	1.43	0.98
34:BA:297:G:H21	34:BA:299:G:H3'	1.26	0.98
34:BA:60:A:H62	34:BA:110:C:N4	1.61	0.98
37:BE:113:HIS:HA	37:BE:116:GLU:OE1	1.61	0.98
43:BK:10:LEU:CA	43:BK:13:ILE:HD12	1.93	0.98
34:BA:375:U:H4'	51:BS:17:TYR:HE2	1.27	0.98
10:AK:94:THR:HG23	10:AK:96:LYS:HB3	1.46	0.98
2:AA:1612:C:H3'	31:A7:3:ARG:HH21	1.24	0.98
2:AA:1700:A:H2'	2:AA:1701:A:H5'	1.45	0.98
2:AA:2320:A:H1'	2:AA:2333:A:N6	1.78	0.98
2:AA:270(C):C:H2'	2:AA:270(D):C:H6	1.27	0.98
2:AA:270(X):G:H2'	2:AA:270(Y):G:H5'	1.01	0.98
2:AA:302:C:N3	2:AA:315:G:N2	2.10	0.98
2:AA:863:A:H2'	2:AA:864:G:C8	1.97	0.98
4:AD:196:ASN:CA	4:AD:199:ARG:HD2	1.91	0.98
11:AL:46:THR:HG22	11:AL:54:LEU:HD12	1.40	0.98
21:AV:52:PHE:H	21:AV:65:LEU:CD1	1.76	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1490:C:H6	34:BA:1490:C:C5'	1.75	0.98
34:BA:781:A:C2'	34:BA:782:A:H5'	1.93	0.98
34:BA:817:C:N4	34:BA:819:A:N3	2.12	0.98
38:BF:111:LEU:O	38:BF:202:ILE:HD12	1.60	0.98
42:BJ:118:VAL:HG12	42:BJ:122:HIS:NE2	1.78	0.98
35:BB:37:G:N2	36:B1:63:C:N4	2.11	0.98
2:AA:342:G:H2'	2:AA:343:C:C6	1.96	0.98
2:AA:373:U:H4'	2:AA:374:A:C8	1.98	0.98
2:AA:920:G:O2'	2:AA:921:G:H5'	1.63	0.98
3:AC:144:THR:HA	3:AC:152:ILE:HG21	1.45	0.98
6:AF:55:ARG:CG	6:AF:56:THR:H	1.76	0.98
7:AG:21:VAL:HG13	7:AG:132:VAL:HG23	1.46	0.98
9:AJ:71:ILE:HG12	11:AL:61:TYR:HB2	0.99	0.98
12:AM:39:VAL:HG11	12:AM:108:PRO:HD3	1.41	0.98
44:BL:48:GLU:HA	44:BL:51:ARG:NE	1.79	0.98
4:AD:169:LYS:H	4:AD:169:LYS:NZ	1.61	0.98
2:AA:154:G:C2	2:AA:155:C:H1'	1.99	0.98
2:AA:1405:U:H3	2:AA:1597:A:N6	1.61	0.98
2:AA:1917:U:H3'	2:AA:1917:U:H6	1.25	0.98
2:AA:1993:U:O2'	2:AA:1994:C:H5'	1.63	0.98
2:AA:221:A:N7	2:AA:266:G:N7	2.12	0.98
2:AA:2353:G:H1	2:AA:2364:C:N4	1.60	0.98
2:AA:251:A:H2'	2:AA:252:G:O4'	1.62	0.98
2:AA:2519:U:H5''	2:AA:2520:C:OP1	1.62	0.98
2:AA:2560:C:H2'	2:AA:2560:C:O2	1.58	0.98
2:AA:2699:C:N3	2:AA:2708:G:N2	2.11	0.98
2:AA:343:C:N4	2:AA:344:G:O6	1.95	0.98
2:AA:528:A:C2	2:AA:2043:C:H4'	1.98	0.98
2:AA:791:C:N4	2:AA:794:G:H8	1.61	0.98
7:AG:79:MET:HA	7:AG:82:GLU:OE1	1.63	0.98
8:AH:116:PRO:HB2	8:AH:120:LEU:HB2	1.42	0.98
9:AI:69:ASN:O	9:AI:73:VAL:HG23	1.62	0.98
34:BA:590:C:H5''	43:BK:30:ARG:CD	1.93	0.98
34:BA:913:A:O2'	34:BA:914:A:O4'	1.79	0.98
34:BA:948:C:OP1	48:BP:109:THR:HB	1.62	0.98
40:BH:78:HIS:NE2	40:BH:142:LEU:HD23	1.78	0.98
50:BR:36:ILE:HD12	50:BR:63:ARG:CD	1.93	0.98
53:BU:36:ASN:HB3	53:BU:40:LEU:HD21	1.46	0.98
2:AA:29:U:H4'	25:A1:11:ARG:NH1	1.79	0.98
2:AA:2386:C:H4'	27:A3:39:ARG:HE	0.83	0.98
31:A7:30:ILE:HG23	31:A7:33:ARG:HD2	1.45	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2131:G:H3'	3:AC:6:ARG:HB2	1.43	0.98
2:AA:2067:G:N2	2:AA:2443:C:N3	2.11	0.98
2:AA:2785:C:C5'	5:AE:99:VAL:HG22	1.93	0.98
12:AM:87:LEU:HD22	12:AM:98:PHE:CE1	1.98	0.98
19:AT:23:LYS:O	19:AT:24:LEU:HG	1.62	0.98
21:AV:18:MET:HA	21:AV:35:ASP:HA	1.46	0.98
34:BA:679:C:H2'	34:BA:680:C:H6	1.22	0.98
35:BB:19:G:O2'	35:BB:20:G:OP1	1.81	0.98
37:BE:61:LEU:CA	37:BE:64:ARG:HD2	1.94	0.98
42:BJ:146:GLU:CG	42:BJ:149:ARG:HH21	1.75	0.98
50:BR:3:ILE:HG23	50:BR:38:ARG:NH2	1.78	0.98
50:BR:62:GLN:HA	50:BR:65:ARG:NH2	1.77	0.98
41:BI:91:VAL:CG2	53:BU:72:ARG:HH12	1.76	0.98
10:AK:95:SER:HA	10:AK:98:ILE:HG13	1.41	0.98
42:BJ:86:GLN:HG3	42:BJ:148:ASN:HD22	1.28	0.98
27:A3:14:ARG:HD2	27:A3:14:ARG:C	1.84	0.98
2:AA:1184:G:O2'	2:AA:1185:C:H5'	1.61	0.98
2:AA:1669:A:H2'	2:AA:1670:C:C5'	1.94	0.98
2:AA:2182:G:H2'	2:AA:2183:C:C6	1.97	0.98
2:AA:2776:A:H1'	2:AA:2778:A:C8	1.98	0.98
2:AA:487:C:H42	2:AA:493:G:H1	1.11	0.98
4:AD:154:VAL:HG21	4:AD:160:SER:HA	1.43	0.98
5:AE:211:GLN:H	5:AE:216:ARG:CZ	1.75	0.98
2:AA:2745:C:H1'	8:AH:142:GLU:HG3	1.44	0.98
34:BA:1004:A:H8	34:BA:1036:G:O6	1.46	0.98
34:BA:392:G:H5'	51:BS:12:LYS:HE2	1.43	0.98
34:BA:520:A:N6	34:BA:529:G:N3	2.11	0.98
34:BA:579:G:C2'	34:BA:580:U:H5'	1.94	0.98
35:BC:51:G:H1	35:BC:63:C:N4	1.60	0.98
47:BO:53:ARG:HH12	47:BO:93:LEU:CD2	1.77	0.98
48:BP:108:ARG:HH11	48:BP:108:ARG:HA	1.25	0.98
48:BP:60:VAL:HA	48:BP:63:THR:HG22	1.46	0.98
24:A0:97:VAL:HG13	24:A0:114:VAL:CG2	1.92	0.98
25:A1:111:ASP:HA	25:A1:114:ARG:HD2	1.44	0.98
32:A8:31:HIS:O	32:A8:32:GLN:HG3	1.64	0.98
2:AA:1084:A:OP1	9:AI:39:VAL:HB	1.63	0.98
2:AA:1796:U:H2'	2:AA:1797:C:C5	1.98	0.98
2:AA:1809:A:H3'	2:AA:1810:A:N3	1.79	0.98
2:AA:1932:A:H2'	2:AA:1932:A:N3	1.77	0.98
2:AA:2376:A:C2	16:AQ:102:LEU:HD22	1.99	0.98
2:AA:2476:A:N7	2:AA:2477:C:C5	2.31	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:616:A:H4'	2:AA:617:G:OP1	1.61	0.98
4:AD:162:GLN:HB2	4:AD:164:LEU:HD12	1.46	0.98
34:BA:1315:U:O2'	34:BA:1360:A:N3	1.96	0.98
34:BA:922:G:H1	34:BA:1395:C:H42	1.03	0.98
43:BK:103:VAL:HB	43:BK:108:GLY:HA3	1.46	0.98
45:BM:34:VAL:HG12	45:BM:36:GLY:H	1.23	0.98
24:A0:72:ASP:OD1	24:A0:74:LYS:HD3	1.64	0.98
25:A1:66:ASN:HA	25:A1:76:TYR:OH	1.63	0.98
2:AA:108:U:H2'	2:AA:109:G:C8	1.99	0.98
2:AA:1252:G:H3'	2:AA:1253:A:O4'	1.64	0.98
2:AA:2312:U:H5''	7:AG:52:THR:O	1.63	0.98
2:AA:2754:U:H2'	2:AA:2756:U:OP1	1.64	0.98
2:AA:628:G:N2	2:AA:635:C:N3	2.11	0.98
4:AD:173:VAL:HG23	4:AD:181:ARG:O	1.63	0.98
12:AM:52:GLN:O	12:AM:55:GLU:HB2	1.63	0.98
13:AN:112:MET:HA	13:AN:115:ILE:HD12	1.45	0.98
15:AP:127:ASN:CB	15:AP:128:PRO:HD3	1.93	0.98
22:AW:13:PRO:HA	22:AW:16:ARG:HD2	1.43	0.98
36:B1:11:U:H3	36:B1:45:A:H61	1.09	0.98
34:BA:1069:C:H42	34:BA:1106:G:H1	1.07	0.98
34:BA:479:C:H6	34:BA:479:C:O5'	1.47	0.98
34:BA:628:G:H2'	34:BA:629:G:C8	1.99	0.98
37:BE:102:LEU:HB2	37:BE:176:GLU:HB3	1.44	0.98
37:BE:69:LEU:HD12	37:BE:162:ILE:HB	1.46	0.98
2:AA:2331:G:O2'	27:A3:70:ILE:HG21	1.63	0.98
27:A3:44:LYS:HD3	27:A3:78:PHE:CE2	1.98	0.98
2:AA:304:G:H1	2:AA:313:C:H42	1.04	0.98
5:AE:222:ARG:HH21	5:AE:234:ARG:N	1.59	0.98
12:AM:12:VAL:O	12:AM:38:VAL:HA	1.63	0.98
15:AP:67:ALA:HA	15:AP:70:ARG:HD2	0.98	0.98
15:AP:71:PHE:HB3	15:AP:138:ARG:NH1	1.78	0.98
34:BA:68:G:H5'	34:BA:171:A:H1'	1.43	0.98
34:BA:520:A:H62	34:BA:529:G:H21	1.05	0.98
35:BB:59:U:OP1	35:BB:59:U:C5	2.17	0.98
37:BE:53:ARG:HE	37:BE:199:TYR:HE2	0.98	0.98
37:BE:91:PRO:HG3	37:BE:155:LEU:H	1.28	0.98
46:BN:32:ILE:HG22	46:BN:40:ILE:HD12	1.01	0.98
47:BO:36:VAL:O	47:BO:58:VAL:HG13	1.64	0.98
41:BI:91:VAL:HG21	53:BU:72:ARG:HH12	1.28	0.98
10:AK:75:LEU:CD1	10:AK:76:THR:H	1.76	0.98
10:AK:69:LYS:HG2	10:AK:70:GLU:N	1.78	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A1:47:TYR:HE1	26:A2:76:SER:HA	1.27	0.97
2:AA:1252:G:N2	25:A1:37:GLN:HE21	1.61	0.97
2:AA:2656:U:C4	2:AA:2665:A:N6	2.31	0.97
2:AA:791:C:N4	2:AA:794:G:C8	2.32	0.97
2:AA:977:G:C8	2:AA:987:G:N2	2.31	0.97
4:AD:66:PHE:C	4:AD:67:LYS:HD2	1.85	0.97
15:AP:139:ALA:O	15:AP:142:LYS:HB3	1.62	0.97
17:AR:45:GLU:HG3	17:AR:48:ASN:OD1	1.64	0.97
2:AA:904:C:C1'	21:AV:166:LEU:HD11	1.94	0.97
34:BA:1448:C:N4	34:BA:1455:G:H1	1.62	0.97
34:BA:95:U:H2'	34:BA:96:G:H8	1.26	0.97
34:BA:8:A:H1'	40:BH:102:ALA:O	1.64	0.97
53:BU:75:ILE:CG2	53:BU:76:LEU:HD22	1.94	0.97
10:AK:125:GLY:HA2	10:AK:145:VAL:N	1.77	0.97
2:AA:1166:C:N4	2:AA:1183:G:N1	2.12	0.97
2:AA:1701:A:O2'	2:AA:1702:G:H5'	1.64	0.97
2:AA:1933:G:O6	2:AA:1968:G:N2	1.95	0.97
2:AA:225:A:N6	2:AA:419:C:H4'	1.80	0.97
2:AA:282:A:C2	2:AA:283:A:H5'	1.99	0.97
2:AA:1568:G:H5''	4:AD:60:GLN:HE21	0.81	0.97
6:AF:5:ILE:HD11	6:AF:16:VAL:CG2	1.94	0.97
12:AM:45:VAL:HA	12:AM:131:THR:C	1.84	0.97
37:BE:163:PHE:CZ	37:BE:186:ALA:HA	1.99	0.97
43:BK:112:LEU:HD23	43:BK:113:SER:H	1.29	0.97
43:BK:97:VAL:HG22	43:BK:98:LYS:HD3	1.46	0.97
45:BM:94:VAL:HG12	45:BM:95:GLU:H	1.28	0.97
55:BW:8:ARG:HH11	55:BW:8:ARG:HB2	1.23	0.97
25:A1:13:ARG:N	25:A1:13:ARG:HH11	1.61	0.97
2:AA:1281:G:H2'	2:AA:1282:U:H6	1.28	0.97
2:AA:1857:G:N1	2:AA:1884:A:N6	2.13	0.97
2:AA:1917:U:H3'	2:AA:1918:A:C8	1.99	0.97
2:AA:246:C:H42	2:AA:252:G:H1	1.09	0.97
12:AM:84:ARG:HD3	12:AM:98:PHE:HD2	1.29	0.97
15:AP:64:ALA:HB2	15:AP:142:LYS:HE2	1.43	0.97
35:BB:53:G:H2'	35:BB:54:U:C6	1.99	0.97
52:BT:45:HIS:O	52:BT:73:VAL:HG23	1.62	0.97
2:AA:29:U:H4'	25:A1:11:ARG:HH12	1.28	0.97
2:AA:1065:U:C3'	2:AA:1066:U:H5''	1.93	0.97
2:AA:1255:U:OP1	2:AA:1256:G:H5''	1.63	0.97
2:AA:2041:U:O2'	2:AA:2042:A:H5'	1.63	0.97
2:AA:2095:C:N3	2:AA:2194:G:O6	1.96	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2132:U:H2'	2:AA:2133:G:H5''	1.46	0.97
2:AA:2341:G:H2'	2:AA:2342:C:C6	1.99	0.97
2:AA:2355:C:O3'	27:A3:21:LEU:HD13	1.63	0.97
2:AA:2702:U:OP1	2:AA:2702:U:C6	2.16	0.97
2:AA:299:A:H2'	2:AA:300:A:C8	1.98	0.97
2:AA:857:C:N4	2:AA:920:G:H1	1.61	0.97
9:AJ:86:LYS:HE3	11:AL:10:LYS:HG3	1.45	0.97
15:AP:142:LYS:O	15:AP:143:VAL:O	1.82	0.97
52:BT:28:PRO:HB2	52:BT:33:GLY:O	1.64	0.97
10:AK:79:ILE:HB	10:AK:145:VAL:HG22	1.44	0.97
2:AA:2882:A:OP1	24:A0:96:ARG:HD3	1.65	0.97
29:A5:11:THR:HB	29:A5:16:ARG:HE	0.81	0.97
2:AA:1559:G:H2'	2:AA:1559:G:N3	1.75	0.97
2:AA:937:U:H2'	2:AA:938:G:C8	1.98	0.97
7:AG:22:VAL:HB	7:AG:24:HIS:NE2	1.79	0.97
14:AO:124:ASP:HB3	14:AO:130:ARG:HH21	1.26	0.97
34:BA:371:G:O2'	34:BA:372:C:H5'	1.64	0.97
34:BA:763:G:H2'	34:BA:764:C:H6	1.29	0.97
39:BG:179:GLU:C	39:BG:181:MET:H	1.67	0.97
10:AK:95:SER:OG	10:AK:98:ILE:HD12	1.64	0.97
25:A1:62:ILE:O	25:A1:65:ILE:HB	1.62	0.97
2:AA:1403:C:H4'	2:AA:1471:A:H5'	1.45	0.97
2:AA:2276:G:OP2	15:AP:104:PRO:HD2	1.64	0.97
2:AA:2418:A:H2'	2:AA:2419:U:O4'	1.65	0.97
2:AA:2754:U:H2'	2:AA:2756:U:P	2.04	0.97
2:AA:429:A:H2'	2:AA:430:G:C8	1.99	0.97
6:AF:103:ASN:HB2	6:AF:106:GLU:OE2	1.65	0.97
12:AM:12:VAL:HB	12:AM:38:VAL:HG22	1.02	0.97
13:AN:98:ILE:HD11	13:AN:114:ILE:HG23	1.43	0.97
13:AN:98:ILE:HG23	13:AN:99:PHE:H	1.30	0.97
15:AP:20:ILE:HD12	15:AP:21:SER:OG	1.64	0.97
16:AQ:83:LEU:O	16:AQ:87:LEU:HD23	1.64	0.97
19:AT:50:GLU:OE2	19:AT:69:SER:HB2	1.63	0.97
34:BA:1087:G:H2'	34:BA:1088:G:H8	1.27	0.97
34:BA:76:C:H42	34:BA:93:G:H1	1.05	0.97
52:BT:5:VAL:C	52:BT:6:LEU:HD12	1.85	0.97
34:BA:192:U:C1'	55:BW:103:GLY:HA2	1.94	0.97
24:A0:100:LEU:HB2	24:A0:111:LEU:O	1.64	0.97
32:A8:21:LYS:HB3	32:A8:48:PHE:CZ	1.98	0.97
2:AA:1417:C:H42	2:AA:1581:G:N2	1.61	0.97
2:AA:2103:C:N3	2:AA:2186:G:N2	2.11	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2316:C:C5'	7:AG:142:ALA:HB1	1.94	0.97
2:AA:2688:U:O4	2:AA:2719:G:H3'	1.64	0.97
2:AA:2541:A:H2	2:AA:2765:A:H61	1.03	0.97
2:AA:792:G:H21	2:AA:2072:G:C1'	1.78	0.97
5:AE:263:GLU:H	5:AE:266:LYS:HZ1	1.03	0.97
6:AF:45:ASP:OD1	6:AF:98:ARG:HG3	1.62	0.97
8:AH:10:ILE:HG12	8:AH:14:VAL:HG11	1.43	0.97
10:AK:5:PHE:HB3	10:AK:17:GLU:O	1.65	0.97
12:AM:59:LYS:O	12:AM:63:ILE:HG13	1.63	0.97
15:AP:16:ARG:HB3	15:AP:16:ARG:HH11	0.82	0.97
34:BA:130:A:C8	52:BT:63:ARG:HG3	2.00	0.97
34:BA:453:A:N6	34:BA:480:U:H3	1.62	0.97
35:BC:30:G:N2	35:BC:40:C:N3	2.13	0.97
45:BM:45:ARG:HB3	45:BM:45:ARG:HH11	1.28	0.97
52:BT:74:LEU:HD13	52:BT:75:ARG:HB3	1.47	0.97
2:AA:1085:A:O2'	2:AA:1086:A:O4'	1.82	0.97
2:AA:1342:A:H4'	2:AA:1343:G:OP1	1.63	0.97
2:AA:1613:G:C3'	2:AA:1614:A:H5'	1.94	0.97
2:AA:2304:G:H1	2:AA:2312:U:H3	1.10	0.97
2:AA:28:A:H2'	2:AA:29:U:H5'	1.45	0.97
2:AA:404:C:C4'	2:AA:405:U:H5'	1.94	0.97
2:AA:802:A:H2'	2:AA:803:U:C6	2.00	0.97
3:AC:75:LEU:HD11	3:AC:99:ILE:HD13	1.47	0.97
5:AE:222:ARG:NH1	5:AE:222:ARG:HG3	1.73	0.97
7:AG:28:GLY:HA2	7:AG:69:ILE:HG21	1.42	0.97
8:AH:37:HIS:HE2	8:AH:67:THR:HG1	1.11	0.97
2:AA:1105:U:H4'	9:AI:30:GLY:N	1.80	0.97
19:AT:24:LEU:HB2	19:AT:26:PHE:CZ	1.99	0.97
34:BA:609:A:C2	34:BA:610:G:H1'	2.00	0.97
37:BE:69:LEU:HB2	37:BE:159:PRO:HB2	1.47	0.97
38:BF:83:ARG:NE	38:BF:87:LEU:HD21	1.80	0.97
39:BG:107:ARG:NH1	39:BG:107:ARG:HA	1.78	0.97
34:BA:1314:C:H41	54:BV:4:SER:HB2	1.27	0.97
55:BW:84:LEU:O	55:BW:88:VAL:HG23	1.62	0.97
21:AV:10:PRO:HG2	21:AV:11:LYS:H	1.30	0.97
2:AA:1113:U:H2'	2:AA:1114:G:C8	2.00	0.97
25:A1:13:ARG:CB	25:A1:13:ARG:HH11	1.77	0.97
25:A1:31:GLN:O	25:A1:33:ARG:N	1.97	0.97
2:AA:2022:U:N3	29:A5:9:LYS:NZ	2.07	0.97
33:A9:10:MET:HB2	33:A9:32:HIS:HD2	1.28	0.97
2:AA:1304:C:H42	2:AA:1624:G:H1	1.05	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1666:G:H2'	2:AA:1667:G:H5'	1.45	0.97
2:AA:1668:A:N6	2:AA:1676:A:H61	1.61	0.97
2:AA:1754:C:H2'	2:AA:1755:A:C1'	1.94	0.97
2:AA:1923:U:O2'	35:BC:12:U:H1'	1.65	0.97
2:AA:2747:G:H2'	2:AA:2748:A:H5''	1.44	0.97
2:AA:475:U:H4'	2:AA:510:C:H5'	1.46	0.97
2:AA:2712:U:C2'	2:AA:712(A):A:H5''	1.93	0.97
6:AF:4:THR:O	6:AF:139:VAL:HB	1.62	0.97
13:AN:111:PHE:O	13:AN:115:ILE:HG13	1.63	0.97
13:AN:107:ARG:HA	13:AN:115:ILE:HD11	1.43	0.97
20:AU:31:LEU:O	20:AU:34:GLU:HB2	1.62	0.97
21:AV:94:VAL:HG11	21:AV:130:ILE:HG21	1.47	0.97
34:BA:559:A:H4'	34:BA:560:U:C5'	1.94	0.97
34:BA:571:U:C3'	34:BA:572:A:H5''	1.94	0.97
37:BE:82:ARG:HA	37:BE:92:TYR:CE1	1.99	0.97
39:BG:60:GLU:O	39:BG:63:LYS:HG2	1.65	0.97
46:BN:84:VAL:HG21	53:BU:88:LYS:NZ	1.80	0.97
34:BA:1308:U:O5'	48:BP:99:ARG:NH1	1.98	0.97
35:BB:12:U:O2	35:BB:24:G:N2	1.96	0.97
2:AA:1041:C:H42	2:AA:1114:G:H1	1.06	0.97
2:AA:1024:G:H3'	2:AA:1025:G:H5''	1.42	0.97
2:AA:2056:G:N2	2:AA:2057:A:C1'	2.27	0.97
2:AA:2521:C:N3	2:AA:2544:G:N2	2.12	0.97
2:AA:602:G:H21	2:AA:655:A:H2'	1.30	0.97
2:AA:768:G:H2'	2:AA:769:G:H8	1.26	0.97
4:AD:142:ASN:N	4:AD:143:ILE:HD12	1.80	0.97
4:AD:172:ILE:HA	4:AD:182:MET:HG2	1.43	0.97
9:AI:74:ILE:HD13	9:AI:89:LYS:HG2	1.43	0.97
18:AS:77:ASP:O	18:AS:102:HIS:HB2	1.63	0.97
34:BA:1348:U:OP1	44:BL:109:VAL:HA	1.65	0.97
38:BF:139:GLN:HE21	38:BF:139:GLN:HA	1.29	0.97
40:BH:81:GLU:HA	40:BH:89:ILE:O	1.65	0.97
34:BA:877:C:O2'	43:BK:3:THR:HB	1.64	0.97
34:BA:692:U:H5	46:BN:26:ASN:HD21	1.05	0.97
47:BO:90:VAL:HG21	47:BO:96:VAL:HG11	1.42	0.97
34:BA:974:A:H1'	49:BQ:31:ARG:NH2	1.78	0.97
2:AA:2286:A:OP2	30:A6:28:ARG:HD2	1.62	0.96
2:AA:1062:G:N2	11:AL:92:PRO:HG3	1.80	0.96
2:AA:1829:A:C2	2:AA:1830:C:H1'	2.00	0.96
2:AA:2557:G:H2'	2:AA:2558:C:C6	1.99	0.96
2:AA:327:G:C2	2:AA:328:U:H6	1.82	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:913:U:O2'	2:AA:914:C:H5	1.46	0.96
5:AE:66:GLU:O	5:AE:67:THR:HG23	1.64	0.96
6:AF:80:VAL:HG13	6:AF:81:PRO:HD2	1.45	0.96
12:AM:73:LYS:HB3	12:AM:140:GLY:HA3	0.98	0.96
13:AN:102:VAL:HG11	13:AN:106:LEU:HD11	1.43	0.96
17:AR:5:GLU:O	17:AR:7:ASP:N	1.98	0.96
40:BH:94:ALA:HB1	40:BH:98:THR:HG21	1.47	0.96
31:A7:35:ARG:CB	31:A7:35:ARG:HH11	1.77	0.96
2:AA:1061:U:C4'	2:AA:1070:A:H1'	1.95	0.96
2:AA:1323:U:H2'	2:AA:1324:G:H5'	1.46	0.96
2:AA:1363:C:H2'	2:AA:1363:C:O2	1.64	0.96
12:AM:39:VAL:HG12	12:AM:104:TYR:O	1.64	0.96
12:AM:58:GLU:CA	12:AM:61:VAL:HB	1.94	0.96
13:AN:103:ALA:O	13:AN:105:GLU:N	1.98	0.96
13:AN:1:MET:N	13:AN:32:TYR:HB3	1.77	0.96
18:AS:5:ALA:HB3	18:AS:105:VAL:HG23	1.45	0.96
35:BB:34:G:N2	36:B1:66:G:N7	2.13	0.96
34:BA:1521:G:H2'	34:BA:1522:U:C6	2.00	0.96
34:BA:190:C:H2'	34:BA:190(A):C:H6	1.26	0.96
37:BE:118:LEU:HD13	37:BE:142:LEU:HA	1.47	0.96
37:BE:97:TRP:HH2	37:BE:176:GLU:HG3	1.30	0.96
37:BE:47:THR:HG23	37:BE:202:PRO:HG2	1.47	0.96
34:BA:1347:G:C8	44:BL:107:ARG:HB3	2.01	0.96
38:BF:60:ALA:HB2	45:BM:92:THR:O	1.66	0.96
53:BU:36:ASN:O	53:BU:40:LEU:HG	1.63	0.96
2:AA:139:G:H2'	2:AA:141(A):C:C2'	1.95	0.96
2:AA:216:A:H2'	2:AA:217:G:C8	1.99	0.96
2:AA:1083:U:C4'	9:AI:40:ALA:HB3	1.95	0.96
34:BA:1028:C:H2'	34:BA:1029:C:C6	1.98	0.96
34:BA:1269:A:H5'	34:BA:1326:C:H4'	1.48	0.96
42:BJ:104:LEU:HA	42:BJ:134:ALA:HB2	1.46	0.96
10:AK:124:LEU:HD21	10:AK:146:THR:HA	1.47	0.96
25:A1:13:ARG:HB2	25:A1:13:ARG:NH1	1.79	0.96
28:A4:56:VAL:HG12	28:A4:57:ASP:N	1.75	0.96
2:AA:1002:G:N1	2:AA:1153:C:N4	2.12	0.96
2:AA:1471:A:H2'	2:AA:1472:A:O4'	1.64	0.96
2:AA:1918:A:H2'	2:AA:1919:A:N7	1.81	0.96
2:AA:2253:G:H2'	2:AA:2254:C:C6	2.00	0.96
2:AA:324:A:H62	2:AA:339:U:C1'	1.78	0.96
2:AA:913:U:HO2'	2:AA:914:C:H5	1.06	0.96
12:AM:78:ILE:O	12:AM:82:THR:HG23	1.64	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:130:PRO:HB2	15:AP:134:PHE:CZ	2.01	0.96
21:AV:100:THR:HA	21:AV:137:ASP:OD2	1.65	0.96
21:AV:64:ALA:HB3	21:AV:84:TYR:O	1.64	0.96
23:AX:11:SER:OG	23:AX:12:PRO:HD2	1.65	0.96
43:BK:126:LYS:HZ3	43:BK:127:LEU:CD2	1.79	0.96
34:BA:942:G:H21	44:BL:124:GLN:HE22	1.00	0.96
49:BQ:17:LYS:HG3	49:BQ:18:VAL:H	1.27	0.96
51:BS:74:LEU:CD2	51:BS:79:VAL:HG21	1.95	0.96
10:AK:83:ALA:HB2	10:AK:89:LEU:CA	1.95	0.96
30:A6:26:LYS:HE2	32:A8:35:GLY:HA3	1.44	0.96
2:AA:1061:U:H3'	2:AA:1061:U:OP2	1.65	0.96
2:AA:1087:G:H21	2:AA:1103:A:H2'	1.31	0.96
2:AA:2491:U:H5'	2:AA:2570:G:H5'	1.44	0.96
22:AW:53:ILE:HG22	22:AW:57:LYS:CE	1.94	0.96
34:BA:118:U:H3'	34:BA:288:A:H61	1.29	0.96
34:BA:889:A:H4'	34:BA:890:G:H4'	1.47	0.96
39:BG:98:GLU:CD	39:BG:103:ASN:HD21	1.69	0.96
40:BH:105:VAL:HG11	40:BH:131:ILE:HG22	1.43	0.96
49:BQ:43:CYS:HA	49:BQ:46:GLU:OE1	1.63	0.96
2:AA:1603:A:H3'	2:AA:1603:A:OP2	1.63	0.96
2:AA:1775:U:O2'	2:AA:1776:G:H5'	1.65	0.96
2:AA:2709:G:O2'	2:AA:2710:C:H5'	1.66	0.96
2:AA:997:G:H5''	25:A1:92:ARG:CD	1.96	0.96
2:AA:2306:C:O2	7:AG:27:ILE:HG12	1.65	0.96
11:AL:8:GLN:N	11:AL:59:THR:HA	1.78	0.96
13:AN:93:PRO:HD2	13:AN:113:LYS:HD2	1.47	0.96
14:AO:117:GLU:O	14:AO:118:LEU:HD23	1.64	0.96
16:AQ:102:LEU:HD21	16:AQ:129:ILE:HG23	1.45	0.96
34:BA:1538:C:N3	36:B1:51:G:N2	2.12	0.96
34:BA:513:C:H2'	34:BA:514:C:C6	2.00	0.96
34:BA:761:G:H4'	52:BT:103:GLY:N	1.78	0.96
34:BA:809:G:O2'	34:BA:810:C:H5'	1.65	0.96
46:BN:110:ASP:HA	53:BU:88:LYS:HZ3	1.30	0.96
55:BW:64:ASP:O	55:BW:67:ALA:HB3	1.66	0.96
28:A4:7:PRO:HD2	28:A4:56:VAL:CG2	1.96	0.96
2:AA:138:G:O6	2:AA:142:G:O2'	1.82	0.96
2:AA:1991:U:C6	2:AA:1991:U:H3'	2.00	0.96
2:AA:2021:C:H2'	2:AA:2021:C:O2	1.61	0.96
2:AA:2403:C:N3	2:AA:2414:G:N2	2.12	0.96
2:AA:945:A:N6	2:AA:2448:A:C2	2.33	0.96
2:AA:514:A:H2'	2:AA:515:A:C8	2.00	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:654:A:N3	2:AA:654:A:H2'	1.78	0.96
5:AE:199:ALA:HA	5:AE:312:ARG:O	1.62	0.96
7:AG:45:THR:HG22	7:AG:83:PHE:CE2	1.99	0.96
8:AH:98:GLN:HB2	8:AH:103:VAL:HG23	1.48	0.96
9:AJ:78:ARG:HH21	9:AJ:89:LYS:HG3	1.29	0.96
10:AK:39:ALA:HB1	10:AK:44:LEU:HD21	1.48	0.96
11:AL:55:PRO:HG3	11:AL:73:PRO:HA	1.44	0.96
14:AO:64:ILE:HD12	14:AO:106:VAL:HG12	1.47	0.96
18:AS:36:LEU:HD12	18:AS:51:LEU:HD22	1.45	0.96
50:BR:34:LEU:HG	50:BR:38:ARG:HD3	1.47	0.96
2:AA:2058:A:C2	2:AA:2059:A:N7	2.34	0.96
2:AA:2284:C:P	30:A6:9:ILE:HG13	2.05	0.96
2:AA:2360:A:N7	2:AA:2361:A:C8	2.32	0.96
4:AD:131:LEU:CA	4:AD:134:ILE:HD12	1.95	0.96
5:AE:214:VAL:HG13	5:AE:221:LYS:HD2	1.48	0.96
6:AF:32:GLY:HA3	6:AF:36:ARG:NH2	1.80	0.96
2:AA:2313:C:C5'	7:AG:72:LYS:HG3	1.96	0.96
15:AP:44:ALA:HB3	15:AP:126:VAL:O	1.66	0.96
15:AP:15:THR:HB	15:AP:20:ILE:CB	1.95	0.96
34:BA:121:C:N4	34:BA:236:G:N7	2.11	0.96
34:BA:825:G:H1	34:BA:875:C:H42	1.09	0.96
40:BH:76:ILE:HD13	40:BH:142:LEU:CD1	1.95	0.96
52:BT:92:ARG:O	52:BT:95:TYR:HB2	1.64	0.96
55:BW:63:ILE:CD1	55:BW:80:ARG:HB3	1.94	0.96
35:BB:28:C:O2	35:BB:29:A:C8	2.16	0.96
25:A1:91:ASN:ND2	26:A2:10:LYS:HE2	1.80	0.96
2:AA:1520:U:C2'	2:AA:1521:G:H5''	1.95	0.96
2:AA:1862:G:H1	2:AA:1880:C:H42	0.96	0.96
1:AB:89(A):A:C2'	1:AB:90:C:H5'	1.95	0.96
5:AE:44:TYR:CE1	5:AE:308:VAL:HG13	2.01	0.96
6:AF:220:THR:O	6:AF:225:PRO:HD2	1.65	0.96
9:AJ:86:LYS:HD2	11:AL:10:LYS:HE3	1.43	0.96
15:AP:50:VAL:HG12	15:AP:51:GLU:H	1.28	0.96
20:AU:48:VAL:HG11	20:AU:96:VAL:HG13	1.48	0.96
34:BA:1004:A:H3'	34:BA:1025:U:N3	1.81	0.96
34:BA:1080:A:N7	34:BA:1081:G:H1'	1.81	0.96
34:BA:77:G:N2	34:BA:92:C:N3	2.13	0.96
35:BB:32:C:N4	35:BB:33:U:N3	2.13	0.96
40:BH:104:ALA:CA	40:BH:107:ARG:HH12	1.78	0.96
40:BH:51:VAL:HB	40:BH:52:PRO:HD3	1.47	0.96
41:BI:98:LEU:HD21	53:BU:28:GLU:HA	1.46	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2623:G:N2	29:A5:22:HIS:HE1	1.63	0.96
18:AS:38:TYR:CD2	29:A5:41:LEU:HG	2.00	0.96
2:AA:2667:C:O2	8:AH:108:TYR:HB3	1.63	0.96
3:AC:99:ILE:HG23	3:AC:107:TRP:HZ3	1.25	0.96
8:AH:159:LYS:N	8:AH:162:ARG:HH12	1.63	0.96
34:BA:1239:A:H4'	34:BA:1240:U:H5''	1.44	0.96
34:BA:957:U:C2'	34:BA:959:A:OP2	2.12	0.96
25:A1:50:ARG:HA	25:A1:53:LYS:HZ2	1.26	0.95
33:A9:11:CYS:SG	33:A9:14:CYS:N	2.38	0.95
2:AA:1025:G:H8	2:AA:1134:G:HO2'	1.07	0.95
2:AA:1057:A:H61	2:AA:1081:U:H3	1.11	0.95
2:AA:444:C:O2'	2:AA:445:C:H5'	1.65	0.95
2:AA:13:A:N1	2:AA:525:U:H2'	1.81	0.95
2:AA:973:A:N6	26:A2:79:GLN:O	1.98	0.95
1:AB:56:G:H4'	1:AB:57:A:C5'	1.96	0.95
3:AC:38:ASP:OD1	3:AC:178:ALA:HB3	1.66	0.95
3:AC:32:LEU:HD13	3:AC:220:PRO:HB2	1.45	0.95
4:AD:107:LYS:HB2	4:AD:194:VAL:O	1.64	0.95
5:AE:304:ASP:H	5:AE:307:LEU:CD1	1.79	0.95
5:AE:46:ALA:CB	5:AE:72:VAL:HG23	1.96	0.95
6:AF:5:ILE:CD1	6:AF:16:VAL:HG23	1.96	0.95
6:AF:83:ALA:H	6:AF:87:ARG:CZ	1.78	0.95
7:AG:21:VAL:CG1	7:AG:132:VAL:HG23	1.95	0.95
9:AJ:63:LEU:HD11	9:AJ:102:ILE:HD12	1.48	0.95
12:AM:102:ARG:HB3	12:AM:104:TYR:OH	1.65	0.95
15:AP:86:ARG:HB2	15:AP:121:ASP:O	1.64	0.95
18:AS:82:LEU:HD23	18:AS:98:LYS:HB2	1.48	0.95
21:AV:156:GLU:HG2	21:AV:157:GLY:H	1.26	0.95
34:BA:265:G:H2'	34:BA:267:C:C5	2.01	0.95
34:BA:482:A:N3	34:BA:482:A:H2'	1.81	0.95
43:BK:18:ARG:HA	43:BK:18:ARG:HH11	1.26	0.95
24:A0:86:ARG:HH22	24:A0:118:GLU:HG3	1.28	0.95
26:A2:69:ILE:H	26:A2:91:THR:HG22	0.80	0.95
2:AA:1918:A:C8	2:AA:1918:A:OP2	2.19	0.95
2:AA:2265:U:C2	2:AA:2266:A:N7	2.33	0.95
2:AA:2441:C:O2'	2:AA:2442:C:H5'	1.66	0.95
3:AC:39:GLU:HG2	3:AC:216:THR:HB	1.47	0.95
12:AM:104:TYR:HB3	12:AM:105:LEU:HD23	1.45	0.95
15:AP:97:ASP:HB2	15:AP:107:LYS:HD2	1.46	0.95
16:AQ:31:LYS:HZ1	16:AQ:99:GLU:HB2	1.26	0.95
21:AV:3:LEU:HB2	21:AV:54:ILE:HG12	1.48	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:491:G:O2'	34:BA:492:G:H5'	1.64	0.95
35:BB:33:U:C4	35:BB:35:A:OP2	2.19	0.95
38:BF:8:ILE:HG12	38:BF:16:ARG:HG2	1.46	0.95
39:BG:56:VAL:HG12	39:BG:57:ARG:N	1.81	0.95
46:BN:99:GLN:HG2	46:BN:105:VAL:HG11	1.48	0.95
52:BT:62:SER:OG	52:BT:72:ARG:HG3	1.66	0.95
27:A3:67:VAL:HG11	27:A3:74:LYS:HA	1.46	0.95
30:A6:37:LEU:CD2	30:A6:51:ARG:HG2	1.97	0.95
2:AA:1019:U:H2'	2:AA:1020:A:H5'	1.46	0.95
2:AA:1031:G:N2	2:AA:1123:C:N3	2.14	0.95
2:AA:1568:G:C5'	4:AD:60:GLN:HG2	1.96	0.95
2:AA:2449:U:OP1	2:AA:2449:U:O4'	1.84	0.95
2:AA:25:U:H2'	2:AA:26:G:H8	1.29	0.95
2:AA:26:G:H1	2:AA:27:G:N2	1.63	0.95
3:AC:123:VAL:CG1	3:AC:138:PRO:HD2	1.96	0.95
8:AH:151:ARG:O	8:AH:161:ILE:HG12	1.66	0.95
2:AA:1083:U:O3'	9:AI:37:VAL:O	1.84	0.95
15:AP:58:HIS:HB3	15:AP:111:THR:O	1.67	0.95
20:AU:48:VAL:HG22	20:AU:98:VAL:HA	1.45	0.95
21:AV:57:GLU:C	21:AV:59:GLY:H	1.64	0.95
34:BA:1298:C:C3'	42:BJ:114:ARG:HH12	1.80	0.95
37:BE:50:GLU:CD	37:BE:200:ILE:HB	1.86	0.95
42:BJ:50:ILE:CD1	42:BJ:58:PRO:HB3	1.96	0.95
43:BK:18:ARG:CA	43:BK:18:ARG:HH11	1.78	0.95
47:BO:39:VAL:HB	47:BO:57:LYS:HD2	1.43	0.95
2:AA:997:G:H4'	25:A1:92:ARG:NH1	1.81	0.95
28:A4:68:ARG:HD3	28:A4:72:LYS:HE2	1.47	0.95
32:A8:13:ARG:O	32:A8:14:ILE:HB	1.63	0.95
2:AA:1058:G:H1'	9:AI:3:ILE:CG1	1.96	0.95
2:AA:1422:G:H2'	2:AA:1423:G:C8	2.01	0.95
2:AA:2110:G:H2'	2:AA:2111:C:C5	2.02	0.95
2:AA:2459:A:N6	2:AA:2493:U:O4	1.98	0.95
6:AF:195:VAL:HG11	6:AF:235:PHE:CD2	2.01	0.95
8:AH:143:LEU:HD23	8:AH:144:ALA:H	1.30	0.95
9:AJ:74:ILE:HD13	9:AJ:89:LYS:HG2	1.46	0.95
34:BA:1539:C:H42	36:B1:50:G:H1	1.10	0.95
34:BA:1373:G:H4'	42:BJ:36:LYS:NZ	1.79	0.95
35:BC:3:G:N1	35:BC:70:C:O2	1.99	0.95
42:BJ:83:ALA:HB3	42:BJ:85:TYR:HE2	1.31	0.95
25:A1:20:ARG:CB	25:A1:39:LEU:HD11	1.96	0.95
26:A2:6:GLN:OE1	26:A2:10:LYS:HA	1.67	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:A2:59:GLU:HG2	26:A2:100:GLY:H	1.31	0.95
28:A4:38:GLY:O	28:A4:39:VAL:HG23	1.66	0.95
28:A4:58:LYS:HG2	28:A4:62:ARG:NH2	1.82	0.95
2:AA:2848:G:H21	2:AA:2849:U:H3	1.02	0.95
2:AA:291:C:N4	2:AA:349:G:N1	2.14	0.95
7:AG:29:HIS:ND1	7:AG:69:ILE:HD11	1.80	0.95
9:AJ:69:ASN:O	9:AJ:73:VAL:HG23	1.64	0.95
12:AM:41:ALA:HB3	12:AM:42:GLU:OE2	1.66	0.95
17:AR:7:ASP:OD1	17:AR:30:HIS:O	1.84	0.95
18:AS:42:ARG:HG2	18:AS:43:GLY:N	1.82	0.95
20:AU:73:HIS:HD2	20:AU:88:PRO:HB2	1.32	0.95
21:AV:103:ARG:NH2	21:AV:137:ASP:HB3	1.82	0.95
21:AV:100:THR:HA	21:AV:137:ASP:CG	1.86	0.95
34:BA:1086:U:N3	34:BA:1099:G:N1	2.14	0.95
34:BA:1305:G:H5''	56:BX:5:ASP:N	1.81	0.95
34:BA:1350:A:H61	34:BA:1372:U:H3	1.01	0.95
35:BB:70:C:H2'	35:BB:71:G:H8	1.24	0.95
35:BC:40:C:H2'	35:BC:41:U:C5'	1.96	0.95
39:BG:31:CYS:HB3	39:BG:33:MET:HG2	1.48	0.95
39:BG:93:PHE:CE2	39:BG:97:LEU:HD21	2.01	0.95
52:BT:83:ASP:O	52:BT:86:GLU:HB2	1.63	0.95
35:BB:22:G:H2'	35:BB:23:A:H8	1.16	0.95
2:AA:1202:C:C4	2:AA:1243:G:N1	2.32	0.95
2:AA:1518:C:C2	2:AA:1519:G:H1'	2.01	0.95
2:AA:1804:C:H42	2:AA:1813:G:H1	1.13	0.95
2:AA:1809:A:O2'	2:AA:1810:A:OP1	1.81	0.95
2:AA:1917:U:H3'	2:AA:1918:A:H8	1.32	0.95
2:AA:2064:C:H1'	2:AA:2450:A:C6	2.00	0.95
2:AA:2287:A:O2'	2:AA:2288:A:O5'	1.85	0.95
2:AA:271:G:H2'	2:AA:272:G:H8	1.32	0.95
2:AA:361:G:H2'	2:AA:362:U:C6	2.02	0.95
8:AH:88:LEU:HD11	8:AH:95:ALA:N	1.81	0.95
34:BA:1316:G:H2'	34:BA:1318:A:OP2	1.67	0.95
34:BA:445:G:H1	34:BA:489:C:H42	1.11	0.95
46:BN:79:SER:HA	46:BN:104:GLN:CB	1.96	0.95
47:BO:28:LYS:CD	47:BO:33:ARG:HH12	1.79	0.95
31:A7:35:ARG:HH11	31:A7:35:ARG:HB3	0.82	0.95
2:AA:1796:U:H3	2:AA:1823:G:H1	0.99	0.95
2:AA:2226:C:H2'	2:AA:2227:A:C4'	1.96	0.95
2:AA:2792:G:N2	2:AA:2804:C:N3	2.14	0.95
6:AF:45:ASP:HB3	6:AF:98:ARG:NE	1.81	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:84:ARG:HA	12:AM:98:PHE:CE2	2.01	0.95
13:AN:103:ALA:HA	13:AN:122:ILE:O	1.65	0.95
21:AV:105:GLN:HB2	21:AV:141:MET:HG2	1.49	0.95
23:AX:5:LYS:HA	23:AX:36:VAL:HG12	1.49	0.95
34:BA:481:G:H4'	34:BA:482:A:OP1	1.64	0.95
34:BA:679:C:H2'	34:BA:680:C:C6	2.02	0.95
35:BB:34:G:C2	35:BB:35:A:C2	2.49	0.95
37:BE:80:ILE:HD11	37:BE:208:ILE:HG23	1.48	0.95
38:BF:19:GLU:HG2	38:BF:54:ARG:HE	1.30	0.95
40:BH:76:ILE:CD1	40:BH:142:LEU:HD13	1.95	0.95
46:BN:58:PRO:O	46:BN:61:ALA:HB3	1.65	0.95
48:BP:20:THR:HA	48:BP:25:ILE:CG2	1.96	0.95
50:BR:62:GLN:NE2	50:BR:65:ARG:HH21	1.62	0.95
2:AA:1275:A:N1	24:A0:16:HIS:HA	1.82	0.95
25:A1:55:ARG:HA	25:A1:58:ARG:NE	1.82	0.95
2:AA:1263:U:H4'	29:A5:16:ARG:NH1	1.80	0.95
30:A6:16:ALA:C	30:A6:18:THR:H	1.65	0.95
2:AA:250:G:H5''	32:A8:8:LYS:HE2	1.48	0.95
2:AA:1637:A:H4'	2:AA:2711:A:O2'	1.64	0.95
2:AA:2346:A:H1'	2:AA:2383:G:C8	2.00	0.95
2:AA:2542:A:H5'	2:AA:2543:G:OP1	1.65	0.95
2:AA:2652:C:N4	2:AA:2668:G:H1	1.64	0.95
2:AA:774:A:C5'	2:AA:778:G:H4'	1.97	0.95
2:AA:663:G:O2'	2:AA:940:G:H4'	1.67	0.95
2:AA:442:G:H4'	6:AF:44:GLN:OE1	1.65	0.95
12:AM:22:VAL:O	12:AM:26:VAL:HG23	1.66	0.95
13:AN:85:VAL:HG21	13:AN:114:ILE:HD11	1.49	0.95
34:BA:1494:G:C2	34:BA:1495:U:C5	2.54	0.95
34:BA:372:C:H42	34:BA:389:A:H62	1.00	0.95
37:BE:150:SER:HA	37:BE:153:ARG:CB	1.97	0.95
38:BF:52:LEU:HA	38:BF:70:VAL:CG2	1.96	0.95
43:BK:95:VAL:HG22	43:BK:133:LEU:HD21	1.45	0.95
44:BL:55:ALA:HB3	44:BL:58:ARG:HE	1.32	0.95
37:BE:130:ARG:NE	37:BE:130:ARG:HA	1.81	0.95
41:BI:36:ARG:HB3	41:BI:36:ARG:NH1	1.82	0.95
2:AA:1173:G:H22	2:AA:1175:U:H5'	1.30	0.95
2:AA:1179:C:HO2'	2:AA:1180:C:H6	0.96	0.95
2:AA:1364:G:H3'	28:A4:3:LYS:HD3	0.98	0.95
2:AA:2030:A:H4'	2:AA:2031:A:C8	2.01	0.95
2:AA:2225:A:H5''	2:AA:2226:C:C5'	1.97	0.95
2:AA:2243:U:O2'	2:AA:2244:U:H5'	1.66	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:882:G:H2'	2:AA:883:G:C8	2.01	0.95
2:AA:986:C:H3'	2:AA:986:C:H6	1.30	0.95
4:AD:76:ARG:HD3	4:AD:113:MET:HB3	1.46	0.95
7:AG:18:ILE:HG21	7:AG:77:ASP:HA	1.48	0.95
7:AG:98:PHE:CA	7:AG:104:PHE:HD2	1.80	0.95
13:AN:63:VAL:HG12	13:AN:102:VAL:CG1	1.96	0.95
14:AO:117:GLU:HA	14:AO:136:ALA:O	1.65	0.95
15:AP:47:GLU:OE1	15:AP:151:SER:HA	1.65	0.95
34:BA:1007:C:C2	34:BA:1022:G:N2	2.35	0.95
34:BA:1350:A:N6	34:BA:1372:U:H3	1.65	0.95
34:BA:195:A:H4'	55:BW:68:LYS:NZ	1.80	0.95
34:BA:605:U:H2'	34:BA:606:G:H8	1.32	0.95
34:BA:1368:G:OP1	44:BL:113:LYS:HA	1.64	0.95
45:BM:3:LYS:O	45:BM:100:THR:HB	1.66	0.95
2:AA:1504:C:H2'	2:AA:1505:C:H6	1.31	0.95
2:AA:2021:C:OP2	29:A5:12:SER:HB2	1.65	0.95
2:AA:2421:G:H5''	30:A6:4:ASP:OD1	1.67	0.95
2:AA:2509:G:O2'	2:AA:2510:C:H5'	1.67	0.95
2:AA:2779:U:H5''	2:AA:2780:G:O5'	1.66	0.95
2:AA:295:G:C2	2:AA:344:G:N3	2.35	0.95
2:AA:273:G:H1	2:AA:364:C:H42	1.11	0.95
2:AA:605:C:H2'	2:AA:606:U:C6	2.01	0.95
1:AB:11:C:N3	1:AB:109:G:O6	1.99	0.95
5:AE:193:PHE:CE2	5:AE:199:ALA:HB2	2.01	0.95
2:AA:616:A:C5'	6:AF:42:ARG:HH12	1.80	0.95
6:AF:47:GLY:HA2	6:AF:92:PRO:O	1.66	0.95
2:AA:527:C:H2'	12:AM:95:ARG:NH1	1.82	0.95
34:BA:1193:G:C2'	34:BA:1194:U:H5'	1.97	0.95
34:BA:489:C:H2'	34:BA:490:G:C8	2.02	0.95
44:BL:10:ARG:CA	44:BL:104:ARG:HE	1.78	0.95
10:AK:125:GLY:CA	10:AK:145:VAL:H	1.80	0.95
37:BE:136:VAL:HA	37:BE:139:LYS:NZ	1.80	0.95
2:AA:1161:C:O2'	26:A2:22:VAL:HG11	1.66	0.94
2:AA:1996:C:H2'	2:AA:1997:G:O5'	1.63	0.94
2:AA:709:U:H2'	2:AA:710:G:C8	2.02	0.94
2:AA:718:A:H5''	2:AA:719:C:C5	2.02	0.94
2:AA:775:G:H5'	2:AA:777:A:H1'	1.49	0.94
2:AA:897:C:H4'	35:BB:56:C:C5	2.02	0.94
4:AD:208:GLY:N	4:AD:211:HIS:NE2	2.14	0.94
13:AN:43:VAL:HG21	13:AN:56:GLN:HB2	1.48	0.94
16:AQ:20:TYR:O	16:AQ:23:ARG:CB	2.15	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AT:5:ILE:HG13	19:AT:40:ALA:HB1	1.49	0.94
34:BA:1190:G:OP1	38:BF:5:ILE:HG13	1.65	0.94
34:BA:1424:C:H42	34:BA:1476:G:H1	0.97	0.94
34:BA:372:C:H42	34:BA:389:A:N6	1.64	0.94
37:BE:178:ARG:HD2	37:BE:184:VAL:HG21	1.49	0.94
2:AA:1508:A:H2'	2:AA:1509:C:C5	2.02	0.94
2:AA:1069:A:H4'	2:AA:1070:A:C5'	1.97	0.94
2:AA:1477:A:C2	2:AA:1516:U:N3	2.35	0.94
2:AA:2307:G:H1'	2:AA:2311:A:H61	1.29	0.94
2:AA:2457:U:H2'	2:AA:2458:G:H5'	1.46	0.94
2:AA:2652:C:H42	2:AA:2668:G:H1	0.94	0.94
2:AA:511:U:C5	2:AA:512:G:N3	2.34	0.94
3:AC:100:ILE:CG2	3:AC:126:LYS:HG2	1.97	0.94
9:AI:23:LYS:HG3	9:AJ:46:GLY:HA3	1.49	0.94
12:AM:19:MET:HB3	12:AM:46:ILE:HD11	1.46	0.94
12:AM:84:ARG:HD3	12:AM:98:PHE:CD2	2.01	0.94
19:AT:11:THR:N	19:AT:14:ALA:HB3	1.80	0.94
20:AU:19:ARG:NH2	20:AU:68:ASP:HA	1.82	0.94
35:BB:34:G:H1	36:B1:65:U:H2'	1.28	0.94
34:BA:52:G:H2'	34:BA:53:A:H8	1.30	0.94
41:BI:76:ALA:HB1	41:BI:80:ARG:HH21	1.14	0.94
42:BJ:124:LEU:O	42:BJ:127:ALA:HB3	1.67	0.94
46:BN:95:ILE:HA	46:BN:98:LEU:CD1	1.97	0.94
48:BP:22:ILE:HD12	48:BP:25:ILE:HD11	1.49	0.94
35:BB:37:G:C8	35:BB:37:G:O5'	2.20	0.94
8:AH:167:LEU:HG	8:AH:169:ARG:HH12	1.32	0.94
28:A4:56:VAL:O	28:A4:61:LYS:HE2	1.66	0.94
2:AA:1777:U:H2'	2:AA:1778:U:H6	1.30	0.94
2:AA:2296:U:C6	2:AA:2296:U:H3'	2.00	0.94
2:AA:775:G:H21	2:AA:787:U:C3'	1.78	0.94
2:AA:849:A:N3	23:AX:21:ALA:HB1	1.82	0.94
2:AA:965:C:H5'	2:AA:2273:A:C1'	1.95	0.94
14:AO:67:ARG:NH1	14:AO:111:ALA:HB3	1.82	0.94
15:AP:137:ARG:O	15:AP:140:TYR:HB2	1.67	0.94
35:BC:51:G:H1	35:BC:63:C:H42	0.99	0.94
38:BF:12:LEU:HD13	38:BF:18:TRP:N	1.82	0.94
43:BK:14:ARG:HB3	43:BK:14:ARG:HH11	1.31	0.94
41:BI:89:MET:HB3	53:BU:76:LEU:HD11	1.48	0.94
53:BU:74:ARG:N	53:BU:79:LEU:HD21	1.80	0.94
24:A0:86:ARG:HB3	24:A0:86:ARG:NH1	1.81	0.94
2:AA:1238:G:C2'	2:AA:1239:G:H5'	1.98	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1472:A:N6	2:AA:1518:C:N4	2.14	0.94
2:AA:1299:G:O6	2:AA:1639:U:H5''	1.66	0.94
2:AA:1267:U:H5	2:AA:2012:G:H22	0.95	0.94
2:AA:2590:A:H2'	2:AA:2591:C:H6	1.30	0.94
2:AA:265:A:H2	2:AA:266:G:N3	1.64	0.94
2:AA:2749:A:H4'	8:AH:61:ARG:HG2	1.45	0.94
2:AA:969:U:H2'	2:AA:970:C:O4'	1.66	0.94
2:AA:981:A:H1'	2:AA:2037:G:O4'	1.67	0.94
1:AB:43:C:H42	1:AB:45:A:H62	0.95	0.94
6:AF:81:PRO:C	6:AF:87:ARG:NH1	2.21	0.94
34:BA:452:A:H2'	34:BA:453:A:C8	2.02	0.94
37:BE:47:THR:HB	37:BE:48:MET:SD	2.08	0.94
43:BK:6:ILE:HG23	43:BK:7:ALA:H	1.27	0.94
44:BL:32:ASP:CB	44:BL:35:GLU:HB2	1.97	0.94
45:BM:16:LEU:HD22	45:BM:94:VAL:HG22	1.49	0.94
51:BS:21:VAL:HG22	51:BS:36:ILE:HD13	1.45	0.94
36:B1:14:U:H3	36:B1:42:G:H1	0.99	0.94
24:A0:79:LEU:HD23	24:A0:80:PHE:HA	1.48	0.94
2:AA:1058:G:N3	9:AI:3:ILE:HD11	1.82	0.94
2:AA:1002:G:N2	2:AA:1153:C:N3	2.13	0.94
2:AA:1995:U:C5'	2:AA:1996:C:H5''	1.95	0.94
2:AA:775:G:N2	2:AA:787:U:H2'	1.81	0.94
2:AA:777:A:O2'	2:AA:778:G:H5'	1.66	0.94
2:AA:988:A:OP1	23:AX:11:SER:HB2	1.65	0.94
1:AB:16:G:O2'	1:AB:17:C:H5'	1.65	0.94
4:AD:128:ALA:HB2	4:AD:190:THR:CB	1.96	0.94
4:AD:63:ILE:HA	4:AD:86:ARG:HH22	1.30	0.94
6:AF:52:ALA:HA	6:AF:55:ARG:NE	1.82	0.94
2:AA:1054:A:C2	9:AI:28:LYS:HG2	2.01	0.94
2:AA:1076:C:HO2'	11:AL:91:GLU:HB3	1.12	0.94
16:AQ:22:GLN:OE1	16:AQ:23:ARG:N	2.01	0.94
19:AT:11:THR:H	19:AT:14:ALA:CB	1.79	0.94
34:BA:1136:U:H5''	34:BA:1137:C:OP2	1.67	0.94
34:BA:520:A:H62	34:BA:529:G:N2	1.64	0.94
37:BE:7:VAL:HG23	37:BE:8:LYS:H	1.28	0.94
39:BG:58:LEU:CD1	39:BG:59:ARG:HH11	1.81	0.94
43:BK:29:SER:HB3	43:BK:32:LYS:HZ1	1.18	0.94
48:BP:82:MET:SD	48:BP:93:ARG:HG3	2.07	0.94
51:BS:6:LEU:N	51:BS:6:LEU:HD13	1.82	0.94
2:AA:1083:U:H4'	9:AI:40:ALA:CB	1.97	0.94
2:AA:1613:G:H3'	2:AA:1614:A:C5'	1.98	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1759:A:OP2	2:AA:1759:A:H3'	1.67	0.94
2:AA:2107:C:N4	2:AA:2182:G:N1	2.15	0.94
2:AA:2253:G:H2'	2:AA:2254:C:H6	1.31	0.94
2:AA:220:G:H4'	2:AA:234:C:H4'	1.47	0.94
2:AA:860:U:N3	2:AA:917:A:N6	2.14	0.94
20:AU:47:THR:HG21	20:AU:100:ASP:HB2	1.49	0.94
1:AB:83:G:H4'	23:AX:52:HIS:HD2	1.31	0.94
34:BA:1128:C:H1'	34:BA:1146:A:N6	1.81	0.94
34:BA:463:A:H1'	51:BS:82:GLN:HE21	1.32	0.94
34:BA:582:U:H3	34:BA:759:A:H62	1.10	0.94
34:BA:76:C:N4	34:BA:93:G:H1	1.64	0.94
34:BA:946:A:H2'	34:BA:947:G:H8	1.25	0.94
37:BE:166:ASP:O	37:BE:169:LYS:HB3	1.68	0.94
42:BJ:113:GLU:HG3	42:BJ:118:VAL:CB	1.97	0.94
44:BL:10:ARG:HA	44:BL:104:ARG:NE	1.81	0.94
46:BN:61:ALA:CB	46:BN:94:ALA:HB2	1.96	0.94
48:BP:23:TYR:O	48:BP:66:LEU:HB3	1.67	0.94
34:BA:280:C:H1'	52:BT:38:ARG:NE	1.82	0.94
55:BW:49:ALA:CB	55:BW:99:LEU:HG	1.97	0.94
10:AK:124:LEU:CD2	10:AK:146:THR:HA	1.98	0.94
24:A0:31:HIS:HD2	24:A0:34:ILE:HD11	1.33	0.94
2:AA:1240:U:H3'	2:AA:1241:A:C8	2.03	0.94
2:AA:1527:G:C2'	2:AA:1528:A:H5''	1.98	0.94
2:AA:1563:G:H2'	2:AA:1564:C:H6	1.28	0.94
2:AA:1612:C:N4	2:AA:1619:G:N1	2.02	0.94
2:AA:2111:C:N4	2:AA:2120:G:H1'	1.82	0.94
2:AA:2471:C:N3	2:AA:2479:G:N2	2.15	0.94
2:AA:660:G:H2'	2:AA:661:C:C6	2.03	0.94
3:AC:104:LEU:HD12	3:AC:130:ILE:CD1	1.96	0.94
4:AD:167:GLU:HB2	4:AD:170:TYR:HE1	1.23	0.94
4:AD:161:ALA:HB1	4:AD:173:VAL:HG12	1.48	0.94
5:AE:222:ARG:HG2	5:AE:232:ARG:CA	1.98	0.94
9:AI:4:ASP:HA	9:AI:7:ILE:HD12	1.45	0.94
9:AJ:76:VAL:HG21	9:AJ:121:ALA:HB2	1.48	0.94
13:AN:83:ALA:C	13:AN:84:CYS:SG	2.46	0.94
34:BA:1263:C:H2'	34:BA:1264:C:C6	2.03	0.94
34:BA:299:G:N2	34:BA:566:G:O6	2.00	0.94
34:BA:715:A:H4'	34:BA:777:A:N6	1.82	0.94
37:BE:68:ILE:O	37:BE:90:MET:HB3	1.67	0.94
40:BH:78:HIS:HB2	43:BK:104:ARG:CD	1.97	0.94
2:AA:563:G:N2	25:A1:37:GLN:HE22	1.66	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:A2:1:MET:O	26:A2:15:SER:HB2	1.67	0.94
30:A6:19:GLY:HA3	30:A6:42:PRO:CB	1.98	0.94
2:AA:1406:U:H2'	2:AA:1407:C:H6	1.32	0.94
2:AA:1425:G:H2'	2:AA:1426:G:C8	2.02	0.94
2:AA:1492:G:H1	2:AA:1498:C:H42	1.10	0.94
2:AA:1562:A:H2'	2:AA:1563:G:H8	1.31	0.94
2:AA:1718:G:N1	2:AA:1741:C:N4	2.15	0.94
2:AA:1840:G:H1	2:AA:1902:C:H42	1.13	0.94
2:AA:1889:A:H2'	2:AA:1890:A:C8	2.02	0.94
2:AA:2584:U:H6	2:AA:2584:U:C3'	1.80	0.94
2:AA:2661:G:H2'	2:AA:2662:A:C8	2.01	0.94
2:AA:270:A:C2	2:AA:370:G:H1'	2.02	0.94
2:AA:34:C:H2'	2:AA:455:C:H41	1.32	0.94
2:AA:961:C:C5	2:AA:2031:A:C2	2.56	0.94
3:AC:59:ARG:HD2	3:AC:164:ARG:CD	1.98	0.94
4:AD:76:ARG:CD	4:AD:113:MET:HB3	1.97	0.94
34:BA:536:C:H2'	34:BA:537:G:H5'	1.49	0.94
34:BA:594:G:H2'	34:BA:595:G:O4'	1.68	0.94
38:BF:47:LEU:CD1	38:BF:83:ARG:HH21	1.79	0.94
41:BI:91:VAL:HG21	53:BU:72:ARG:NH1	1.81	0.94
47:BO:27:LEU:CD2	47:BO:33:ARG:HH11	1.78	0.94
47:BO:85:ILE:CD1	47:BO:98:TYR:HB3	1.97	0.94
24:A0:42:LYS:O	24:A0:45:ARG:HB3	1.68	0.94
2:AA:137:C:C2	2:AA:142:G:N2	2.35	0.94
2:AA:1451:C:H3'	2:AA:1453:A:C4'	1.98	0.94
2:AA:197:A:N6	2:AA:248:G:H22	1.66	0.94
2:AA:586:A:N1	2:AA:809:G:O2'	2.00	0.94
2:AA:984:A:H3'	2:AA:985:C:C5	2.01	0.94
5:AE:45:LYS:HB3	5:AE:305:LYS:HA	1.46	0.94
13:AN:22:ILE:HB	13:AN:40:VAL:O	1.68	0.94
15:AP:65:ARG:CZ	15:AP:85:ILE:HB	1.98	0.94
34:BA:132:C:N4	34:BA:230:G:H1	1.64	0.94
37:BE:49:GLU:O	37:BE:52:GLU:HB3	1.66	0.94
39:BG:105:VAL:HG21	39:BG:121:VAL:CG2	1.96	0.94
43:BK:14:ARG:NH1	43:BK:14:ARG:HB3	1.81	0.94
10:AK:86:GLY:O	10:AK:123:ALA:HA	1.67	0.94
35:BB:12:U:H3	35:BB:24:G:N2	1.62	0.94
27:A3:44:LYS:HA	27:A3:64:ASP:OD1	1.67	0.94
2:AA:1169:G:N2	2:AA:1180:C:N3	2.15	0.94
2:AA:1792:G:H1	2:AA:1827:C:N4	1.64	0.94
2:AA:2013:A:H2'	2:AA:2014:A:O4'	1.66	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2252:G:H22	35:BC:74:C:N4	1.65	0.94
2:AA:2264:C:N4	2:AA:2276:G:H1	1.64	0.94
2:AA:237:C:H42	2:AA:260:G:H1	1.13	0.94
2:AA:2895:U:H2'	2:AA:2896:C:C6	2.02	0.94
2:AA:880:G:N2	2:AA:897:C:N3	2.15	0.94
2:AA:912:C:OP1	15:AP:16:ARG:NH2	2.00	0.94
2:AA:1675:C:H42	5:AE:228:ARG:HH22	1.15	0.94
2:AA:2730:C:H4'	5:AE:265:ASN:ND2	1.80	0.94
2:AA:1006:C:O2'	12:AM:86:MET:HB3	1.68	0.94
16:AQ:110:THR:HG22	16:AQ:115:VAL:HG23	1.49	0.94
21:AV:107:GLU:CD	21:AV:107:GLU:H	1.67	0.94
34:BA:121:C:H4'	34:BA:122:G:OP1	1.64	0.94
34:BA:764:C:H2'	34:BA:765:G:C8	2.03	0.94
35:BB:15:G:H2'	35:BB:16:U:OP2	1.68	0.94
34:BA:932:C:H5''	42:BJ:3:ARG:HD2	1.48	0.94
44:BL:16:ARG:HG2	44:BL:18:PHE:CE1	2.03	0.94
54:BV:5:LEU:HD12	54:BV:9:VAL:HG13	1.49	0.94
25:A1:103:PRO:O	25:A1:107:LYS:HG2	1.67	0.94
27:A3:37:LEU:HB3	27:A3:69:PHE:CD2	2.03	0.94
29:A5:40:LYS:NZ	29:A5:46:CYS:HB2	1.84	0.94
2:AA:142(A):A:H4'	12:AM:21:ARG:HH21	1.06	0.94
2:AA:1650:G:H5'	24:A0:104:ARG:HH22	1.31	0.94
2:AA:1935:G:C4	2:AA:1962:C:C4	2.56	0.94
2:AA:633:A:H4'	2:AA:2404:C:OP1	1.68	0.94
2:AA:2635:C:N4	2:AA:2783:G:N1	2.15	0.94
2:AA:2655:G:N3	2:AA:2655:G:H2'	1.81	0.94
2:AA:295:G:H1	2:AA:344:G:C2	1.22	0.94
2:AA:336:C:O2'	2:AA:337:C:H5'	1.68	0.94
7:AG:27:ILE:O	7:AG:69:ILE:HG23	1.66	0.94
2:AA:2406:U:N3	14:AO:55:GLN:HB3	1.83	0.94
36:B1:59:A:H2'	36:B1:60:A:O5'	1.67	0.94
34:BA:975:A:H4'	34:BA:976:G:C5'	1.96	0.94
41:BI:77:ARG:HA	41:BI:80:ARG:CD	1.96	0.94
50:BR:36:ILE:CD1	50:BR:63:ARG:HD3	1.96	0.94
32:A8:13:ARG:HB3	32:A8:24:ALA:HB1	1.49	0.93
2:AA:1028:A:H1'	2:AA:2487:G:OP1	1.67	0.93
2:AA:1365:A:H2'	2:AA:1366:A:H8	1.33	0.93
2:AA:1493:C:N4	2:AA:1499:C:N3	2.14	0.93
2:AA:1681:G:O2'	2:AA:1763:G:H5'	1.66	0.93
2:AA:2010:G:H2'	2:AA:2011:U:H5'	1.48	0.93
2:AA:2023:G:N2	2:AA:2040:C:N3	2.15	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2057:A:H5'	29:A5:8:LYS:HZ3	1.29	0.93
2:AA:2111:C:H41	2:AA:2120:G:C1'	1.81	0.93
2:AA:2149:G:H2'	2:AA:2150:U:H5'	1.46	0.93
2:AA:2334:G:H1'	16:AQ:21:HIS:ND1	1.82	0.93
2:AA:625:G:O2'	2:AA:656:G:H4'	1.68	0.93
2:AA:660:G:H2'	2:AA:661:C:H6	1.29	0.93
5:AE:77:PRO:HB2	5:AE:187:HIS:N	1.82	0.93
8:AH:73:ASN:HB3	8:AH:137:LYS:HZ2	1.28	0.93
9:AJ:73:VAL:HA	9:AJ:121:ALA:HB1	1.50	0.93
14:AO:66:VAL:N	14:AO:67:ARG:HH21	1.65	0.93
15:AP:43:PRO:HD3	21:AV:99:HIS:NE2	1.83	0.93
15:AP:59:ASN:ND2	15:AP:60:ALA:H	1.67	0.93
21:AV:67:LYS:HD3	21:AV:93:GLU:CD	1.88	0.93
34:BA:95:U:H2'	34:BA:96:G:C8	2.03	0.93
34:BA:99:C:H2'	34:BA:101:A:C8	2.03	0.93
35:BC:69:U:H2'	35:BC:70:C:H6	1.33	0.93
38:BF:33:LEU:HD11	49:BQ:54:PRO:HD2	0.96	0.93
38:BF:82:GLU:HG3	38:BF:83:ARG:N	1.78	0.93
34:BA:948:C:P	48:BP:109:THR:HB	2.08	0.93
9:AJ:4:ASP:HA	9:AJ:7:ILE:HD12	1.49	0.93
27:A3:37:LEU:O	27:A3:40:GLN:HG3	1.67	0.93
30:A6:42:PRO:HG2	30:A6:44:ALA:O	1.68	0.93
32:A8:62:LEU:HB2	32:A8:63:PRO:HD3	1.48	0.93
2:AA:1013:C:H2'	2:AA:1014:U:H6	1.30	0.93
2:AA:1024:G:O6	2:AA:1025:G:N7	2.01	0.93
2:AA:1781:C:H3'	2:AA:1781:C:H6	1.33	0.93
2:AA:209:C:O2'	2:AA:210:C:H5'	1.66	0.93
2:AA:2406:U:H3	14:AO:55:GLN:HB3	1.34	0.93
6:AF:236:THR:O	6:AF:239:ALA:HB3	1.66	0.93
6:AF:32:GLY:C	6:AF:36:ARG:HE	1.70	0.93
14:AO:141:GLU:OE2	14:AO:145:LEU:HB2	1.68	0.93
16:AQ:16:ALA:O	16:AQ:18:THR:HG22	1.68	0.93
16:AQ:49:THR:O	16:AQ:55:ASP:HB3	1.69	0.93
19:AT:6:LYS:CD	19:AT:27:ALA:HB1	1.97	0.93
34:BA:1210:C:H5''	34:BA:1214:C:H42	1.32	0.93
34:BA:1263:C:H2'	34:BA:1264:C:H6	1.32	0.93
34:BA:228:A:O2'	34:BA:229:U:H5'	1.67	0.93
34:BA:513:C:H2'	34:BA:514:C:H6	1.33	0.93
42:BJ:68:ASN:HD21	42:BJ:128:ALA:HA	1.13	0.93
53:BU:21:LYS:HE2	53:BU:57:GLY:HA3	1.51	0.93
53:BU:79:LEU:O	53:BU:79:LEU:HD22	1.68	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:A5:40:LYS:HZ1	29:A5:49:CYS:HB2	1.27	0.93
2:AA:1359:A:N7	2:AA:1372:U:O4	2.01	0.93
2:AA:1551:C:H2'	2:AA:1552:G:C8	2.04	0.93
2:AA:1300:U:C1'	2:AA:1626:G:N2	2.32	0.93
2:AA:2023:G:H1	2:AA:2040:C:H42	0.94	0.93
2:AA:2564:A:H2'	2:AA:2565:A:C8	2.02	0.93
2:AA:2596:U:H3'	2:AA:2597:G:C8	2.02	0.93
2:AA:290:G:N1	2:AA:350:U:C2	2.35	0.93
17:AR:49:LEU:CD2	17:AR:54:THR:HG22	1.97	0.93
34:BA:327:A:H4'	34:BA:328:C:OP1	1.67	0.93
34:BA:628:G:H2'	34:BA:629:G:H8	1.32	0.93
34:BA:828:A:H2'	34:BA:829:G:O4'	1.67	0.93
35:BC:74:C:C2'	35:BC:75:C:H5''	1.98	0.93
41:BI:81:ILE:HG22	41:BI:82:ARG:H	1.34	0.93
48:BP:13:LYS:HA	48:BP:44:ARG:NE	1.83	0.93
34:BA:247:G:OP2	52:BT:99:SER:HA	1.65	0.93
25:A1:15:LYS:O	25:A1:18:LEU:HB2	1.68	0.93
2:AA:2256:G:H5'	27:A3:5:LYS:HG3	1.48	0.93
30:A6:19:GLY:O	30:A6:44:ALA:HB2	1.69	0.93
2:AA:125:G:H5'	31:A7:19:ARG:HD2	1.49	0.93
2:AA:13:A:N6	2:AA:525:U:C6	2.36	0.93
2:AA:2286:A:H3'	2:AA:2286:A:C8	2.04	0.93
2:AA:2649:U:O2'	2:AA:2650:U:H5'	1.68	0.93
2:AA:278:A:C2	2:AA:362:U:N3	2.37	0.93
11:AL:28:LEU:HD11	11:AL:58:ILE:HD12	1.50	0.93
14:AO:62:ALA:N	14:AO:107:LYS:HE3	1.84	0.93
15:AP:56:ILE:HD11	15:AP:115:SER:CB	1.99	0.93
21:AV:40:ASP:O	21:AV:44:ARG:HG2	1.67	0.93
34:BA:1440:C:H2'	34:BA:1441:G:O4'	1.68	0.93
34:BA:42:G:H2'	34:BA:43:C:C6	2.03	0.93
42:BJ:104:LEU:H	42:BJ:104:LEU:HD23	1.33	0.93
44:BL:17:VAL:HG13	44:BL:63:ILE:HG12	1.49	0.93
8:AH:29:LYS:HE3	8:AH:81:GLY:H	1.29	0.93
2:AA:1044:G:H2'	2:AA:1111:A:C2	2.03	0.93
2:AA:1222:C:O2'	2:AA:1223:C:H5'	1.68	0.93
2:AA:2391:G:O2'	2:AA:2392:A:H5'	1.69	0.93
2:AA:457:A:H1'	2:AA:459:U:O2	1.66	0.93
2:AA:784:A:C2'	2:AA:785:G:H5''	1.98	0.93
2:AA:824:A:H2'	2:AA:825:C:C5	2.03	0.93
1:AB:49:C:H2'	1:AB:50:G:C8	2.03	0.93
3:AC:59:ARG:NH1	3:AC:164:ARG:HH11	1.65	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:151:GLN:HA	6:AF:154:VAL:HG23	1.51	0.93
8:AH:98:GLN:HB2	8:AH:103:VAL:CG2	1.98	0.93
15:AP:142:LYS:HE3	15:AP:143:VAL:CA	1.97	0.93
15:AP:15:THR:CB	15:AP:20:ILE:HG12	1.98	0.93
19:AT:28:VAL:HG23	19:AT:62:LYS:HB3	1.47	0.93
34:BA:1323:G:H2'	34:BA:1324:A:H8	1.34	0.93
34:BA:581:G:H4'	50:BR:64:ARG:HH11	1.32	0.93
34:BA:597:G:N2	43:BK:94:TYR:HE2	1.65	0.93
37:BE:14:GLY:O	37:BE:15:VAL:HG13	1.69	0.93
41:BI:76:ALA:CB	41:BI:80:ARG:HH21	1.81	0.93
42:BJ:106:GLN:HA	42:BJ:109:ASN:ND2	1.82	0.93
43:BK:64:LYS:CG	43:BK:79:VAL:HG21	1.99	0.93
10:AK:88:ARG:CA	10:AK:122:ARG:O	2.15	0.93
25:A1:114:ARG:O	25:A1:117:ARG:HG3	1.69	0.93
26:A2:4:ILE:HA	26:A2:12:TYR:CD2	2.04	0.93
29:A5:10:LYS:HA	29:A5:10:LYS:NZ	1.82	0.93
33:A9:10:MET:HB2	33:A9:32:HIS:CD2	2.03	0.93
2:AA:106:C:H2'	2:AA:107:C:H5'	1.51	0.93
2:AA:1166:C:N4	2:AA:1183:G:H1	1.64	0.93
2:AA:2285:C:O4'	2:AA:2288:A:N6	2.02	0.93
2:AA:245:G:H1	2:AA:253:C:H42	1.13	0.93
2:AA:2599:G:H2'	2:AA:2600:A:O4'	1.68	0.93
2:AA:299:A:H1'	2:AA:319:C:O2'	1.66	0.93
2:AA:343:C:C2'	2:AA:344:G:H5'	1.99	0.93
2:AA:612:G:H4'	2:AA:616:A:H61	1.13	0.93
2:AA:624:C:H2'	2:AA:624:C:O2	1.68	0.93
3:AC:104:LEU:HB3	3:AC:126:LYS:HE3	1.48	0.93
5:AE:222:ARG:CG	5:AE:232:ARG:HA	1.98	0.93
13:AN:85:VAL:HG21	13:AN:114:ILE:CD1	1.99	0.93
18:AS:40:ASN:ND2	18:AS:41:LYS:H	1.65	0.93
2:AA:2013:A:OP1	18:AS:96:ILE:HB	1.67	0.93
34:BA:1104:G:O2'	34:BA:1105:A:H5'	1.69	0.93
34:BA:1479:C:C2'	34:BA:1480:G:H5'	1.98	0.93
34:BA:783:C:H2'	34:BA:784:C:H5'	1.50	0.93
39:BG:88:VAL:HG22	40:BH:96:PRO:HB3	1.51	0.93
46:BN:65:ALA:HB1	46:BN:98:LEU:CD2	1.98	0.93
48:BP:22:ILE:HB	48:BP:25:ILE:CG1	1.99	0.93
51:BS:21:VAL:HG22	51:BS:36:ILE:CD1	1.98	0.93
2:AA:2285:C:H5	30:A6:28:ARG:HH21	0.96	0.93
2:AA:1065:U:H3'	2:AA:1066:U:H5''	1.47	0.93
2:AA:1666:G:O6	2:AA:1667:G:N2	2.02	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2818:G:H4'	2:AA:2837:G:H4'	1.51	0.93
2:AA:854:G:H2'	2:AA:855:G:H8	1.32	0.93
2:AA:957:A:N7	2:AA:959:A:C5	2.37	0.93
3:AC:100:ILE:HG22	3:AC:126:LYS:CG	1.99	0.93
4:AD:122:ASP:O	4:AD:124:LYS:N	2.00	0.93
4:AD:165:GLY:O	4:AD:172:ILE:CB	2.15	0.93
4:AD:216:ALA:C	4:AD:223:ASN:H	1.63	0.93
2:AA:1993:U:H4'	5:AE:228:ARG:NH2	1.84	0.93
5:AE:70:VAL:HG13	5:AE:296:VAL:O	1.67	0.93
8:AH:88:LEU:HB3	8:AH:128:THR:O	1.68	0.93
12:AM:14:ALA:C	12:AM:40:ASN:HD22	1.71	0.93
12:AM:76:ASP:O	12:AM:80:LYS:HG2	1.68	0.93
16:AQ:31:LYS:HB3	16:AQ:32:PRO:HD3	1.50	0.93
1:AB:115:G:C5'	16:AQ:59:ALA:HB2	1.98	0.93
2:AA:1614:A:H62	18:AS:88:ARG:HB2	1.26	0.93
21:AV:15:ASP:C	21:AV:36:ARG:HH22	1.72	0.93
34:BA:1481:U:H2'	34:BA:1482:G:C8	2.03	0.93
34:BA:130:A:H4'	34:BA:190(F):G:C2	2.04	0.93
34:BA:5:U:C5	39:BG:86:LYS:HE3	2.02	0.93
34:BA:715:A:C4'	34:BA:777:A:N6	2.32	0.93
37:BE:101:MET:HA	37:BE:108:ILE:HG13	1.48	0.93
39:BG:175:SER:OG	39:BG:186:LEU:HD21	1.67	0.93
42:BJ:75:VAL:HG22	42:BJ:88:PRO:CA	1.98	0.93
48:BP:84:ILE:HG13	48:BP:85:GLY:N	1.84	0.93
55:BW:100:ILE:O	55:BW:102:GLY:N	2.00	0.93
2:AA:1568:G:O5'	4:AD:60:GLN:HG2	1.68	0.93
2:AA:1663:C:H2'	2:AA:1664:A:N7	1.82	0.93
2:AA:1819:A:H4'	2:AA:1820:U:C5'	1.99	0.93
2:AA:2369:A:H2'	2:AA:2370:G:H8	1.28	0.93
2:AA:269:U:H3	2:AA:270:A:H62	1.09	0.93
2:AA:407:G:H1	2:AA:420:C:N4	1.66	0.93
2:AA:93:C:H2'	2:AA:94:G:H8	1.31	0.93
3:AC:68:LEU:HB3	3:AC:72:VAL:HG21	1.51	0.93
5:AE:76:PRO:HA	5:AE:292:PRO:HG2	1.49	0.93
8:AH:97:LYS:HB2	8:AH:124:VAL:HG11	1.49	0.93
13:AN:104:ARG:HH11	13:AN:122:ILE:HA	1.31	0.93
13:AN:43:VAL:HB	13:AN:56:GLN:H	1.30	0.93
22:AW:26:GLU:HA	22:AW:29:ASN:ND2	1.82	0.93
34:BA:1489:G:C2'	34:BA:1490:C:H5''	1.98	0.93
34:BA:138:G:H1	34:BA:225:C:N4	1.65	0.93
34:BA:345:C:H4'	34:BA:346:G:O5'	1.65	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:818:G:H3'	34:BA:819:A:H5''	1.49	0.93
34:BA:990:C:H2'	34:BA:991:U:C6	2.03	0.93
43:BK:10:LEU:HD22	43:BK:135:CYS:SG	2.09	0.93
24:A0:63:ARG:HH21	24:A0:77:ARG:HG2	1.34	0.93
2:AA:1102:C:H1'	2:AA:1103:A:C8	2.04	0.93
2:AA:1319:G:O2'	2:AA:1320:C:H5'	1.69	0.93
2:AA:2113:U:OP2	2:AA:2116:G:H2'	1.68	0.93
2:AA:270(D):C:O2	2:AA:270(D):C:H2'	1.68	0.93
2:AA:530:G:H1	2:AA:2021:C:C5'	1.82	0.93
7:AG:106:PHE:O	7:AG:130:VAL:HG23	1.67	0.93
21:AV:16:GLU:N	21:AV:36:ARG:HH12	1.67	0.93
21:AV:21:ALA:HB3	21:AV:34:LEU:HD11	1.49	0.93
34:BA:459:G:N2	34:BA:463:A:H62	1.67	0.93
34:BA:440:A:N6	34:BA:495:U:C5	2.36	0.93
35:BB:5:A:C2	35:BB:69:U:O2	2.21	0.93
43:BK:34:GLU:O	43:BK:37:ARG:HB3	1.68	0.93
55:BW:53:LEU:O	55:BW:56:MET:HB2	1.68	0.93
27:A3:68:VAL:HG21	27:A3:72:LYS:HE3	1.51	0.93
28:A4:5:LEU:O	28:A4:56:VAL:HG13	1.68	0.93
28:A4:68:ARG:HH11	28:A4:72:LYS:HE2	1.33	0.93
2:AA:1030:G:H1	2:AA:1124:C:H42	0.94	0.93
2:AA:1020:A:H2	2:AA:1140:C:HO2'	1.13	0.93
2:AA:1173:G:N2	2:AA:1175:U:C5'	2.31	0.93
2:AA:342:G:C2	2:AA:344:G:N2	2.36	0.93
2:AA:398:G:N2	2:AA:399:G:H1'	1.84	0.93
4:AD:160:SER:O	4:AD:176:ALA:HB2	1.69	0.93
4:AD:197:GLY:C	4:AD:199:ARG:H	1.72	0.93
5:AE:77:PRO:HG2	5:AE:186:GLU:HB2	1.47	0.93
10:AK:6:LEU:O	10:AK:7:LYS:HB2	1.68	0.93
2:AA:1060:U:OP1	11:AL:74:PRO:HA	1.68	0.93
14:AO:92:ASP:HB2	14:AO:118:LEU:CD2	1.98	0.93
15:AP:71:PHE:CB	15:AP:138:ARG:HH11	1.82	0.93
18:AS:82:LEU:HB2	18:AS:98:LYS:HB2	1.51	0.93
22:AW:43:PRO:C	22:AW:45:ARG:N	2.19	0.93
22:AW:5:VAL:HG13	22:AW:59:ILE:HD12	1.51	0.93
34:BA:1127:G:N2	34:BA:1144:G:H22	1.66	0.93
34:BA:1451:A:H5''	34:BA:1452:C:C5	2.04	0.93
34:BA:955:U:H1'	34:BA:1227:A:H61	1.32	0.93
37:BE:21:ARG:HD2	37:BE:21:ARG:H	1.30	0.93
38:BF:47:LEU:O	38:BF:52:LEU:HD22	1.69	0.93
43:BK:104:ARG:HB3	43:BK:107:LEU:HG	1.51	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BK:38:ILE:HG13	43:BK:118:VAL:HG11	1.51	0.93
2:AA:1252:G:H22	25:A1:37:GLN:HE21	0.93	0.92
2:AA:1222:C:H42	2:AA:1227:A:H62	0.94	0.92
2:AA:1355:G:H22	2:AA:1377:G:H1'	1.26	0.92
2:AA:1414:G:N1	2:AA:1588:C:N4	2.16	0.92
2:AA:659:C:H5'	6:AF:103:ASN:OD1	1.69	0.92
2:AA:853:G:H2'	2:AA:854:G:H8	1.30	0.92
2:AA:969:U:H2'	2:AA:970:C:H6	1.34	0.92
6:AF:153:VAL:O	6:AF:157:LEU:HG	1.69	0.92
2:AA:1020:A:H4'	12:AM:49:ARG:HH12	1.34	0.92
14:AO:73:VAL:HA	14:AO:76:LEU:HB2	1.49	0.92
15:AP:35:ASN:H	15:AP:76:GLY:H	1.09	0.92
34:BA:1338:G:N2	35:BC:41:U:H1'	1.81	0.92
34:BA:665:A:H2'	34:BA:725:G:H22	1.28	0.92
48:BP:13:LYS:HD3	48:BP:17:VAL:HG12	1.51	0.92
10:AK:108:LEU:HD23	10:AK:109:LYS:H	1.29	0.92
1:AB:12:C:H3'	27:A3:53:MET:SD	2.08	0.92
36:B1:20:A:H61	36:B1:34:U:H3	1.08	0.92
2:AA:1613:G:H2'	2:AA:1617:C:N4	1.82	0.92
2:AA:1664:A:N1	2:AA:1665:A:N6	2.16	0.92
2:AA:2640:G:H1	2:AA:2774:C:H42	0.96	0.92
1:AB:21:G:N2	1:AB:62:C:N3	2.17	0.92
3:AC:91:ALA:HA	3:AC:153:ILE:HG21	1.48	0.92
5:AE:61:PRO:CB	5:AE:69:PRO:HA	1.97	0.92
15:AP:26:LYS:HD2	15:AP:89:PRO:CD	1.98	0.92
15:AP:67:ALA:N	15:AP:70:ARG:CZ	2.32	0.92
17:AR:49:LEU:HD22	17:AR:54:THR:HG22	1.47	0.92
23:AX:22:ALA:O	23:AX:26:LEU:HG	1.69	0.92
34:BA:1133:G:H1	34:BA:1141:C:H42	0.93	0.92
34:BA:1310:G:H2'	34:BA:1311:G:C8	2.04	0.92
34:BA:409:G:H1	34:BA:433:C:H42	0.94	0.92
34:BA:533:A:H2'	34:BA:535:A:OP2	1.69	0.92
34:BA:657:G:H2'	34:BA:658:G:H5'	1.49	0.92
34:BA:985:C:N3	34:BA:1220:G:N2	2.17	0.92
35:BB:2:C:N4	35:BB:71:G:O6	2.02	0.92
39:BG:12:CYS:CA	39:BG:19:LEU:HB2	1.98	0.92
40:BH:89:ILE:HG12	40:BH:131:ILE:CD1	1.98	0.92
41:BI:69:GLU:O	41:BI:72:VAL:HG23	1.69	0.92
50:BR:3:ILE:CG2	50:BR:38:ARG:HH21	1.81	0.92
10:AK:94:THR:CG2	10:AK:96:LYS:HB3	1.98	0.92
2:AA:1163:G:H5'	26:A2:23:GLU:CD	1.89	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1298:C:H4'	2:AA:1302:A:H62	1.32	0.92
2:AA:1139:G:O2'	2:AA:142(A):A:N3	2.02	0.92
2:AA:231:C:C4	2:AA:232:G:N2	2.37	0.92
2:AA:270(S):G:H2'	2:AA:270(T):G:C8	2.04	0.92
2:AA:457:A:C8	2:AA:471:A:N6	2.37	0.92
9:AI:69:ASN:HB2	9:AI:122:GLY:HA3	1.51	0.92
13:AN:1:MET:N	13:AN:32:TYR:CD2	2.36	0.92
34:BA:50:A:N6	34:BA:361:G:H4'	1.83	0.92
37:BE:102:LEU:CD2	37:BE:176:GLU:HB2	1.99	0.92
39:BG:155:LEU:HB2	39:BG:158:ILE:HG12	1.51	0.92
48:BP:24:GLY:HA3	48:BP:66:LEU:HB3	1.52	0.92
50:BR:77:ARG:HH11	50:BR:77:ARG:HB3	1.32	0.92
32:A8:26:LYS:HD2	32:A8:43:GLY:C	1.89	0.92
30:A6:11:LYS:HZ3	32:A8:35:GLY:CA	1.82	0.92
2:AA:1272:A:O2'	2:AA:1273:U:OP1	1.86	0.92
2:AA:1439:A:H2'	2:AA:1440:G:H5'	1.50	0.92
2:AA:14:A:N7	2:AA:15:G:C4	2.37	0.92
2:AA:1697:G:H3'	2:AA:1698:A:C5'	1.99	0.92
2:AA:1782:C:H5''	2:AA:1783:A:P	2.10	0.92
2:AA:2081:C:C5'	28:A4:35:VAL:HG21	2.00	0.92
2:AA:2359:C:H4'	32:A8:52:LYS:CE	1.99	0.92
2:AA:2507:C:H2'	2:AA:2508:G:H8	1.34	0.92
2:AA:2689:U:H5'	2:AA:2690:C:H5'	1.49	0.92
2:AA:530:G:P	2:AA:530:G:H3'	2.09	0.92
9:AI:73:VAL:HA	9:AI:121:ALA:HB1	1.50	0.92
2:AA:2376:A:H2	16:AQ:102:LEU:HD22	1.34	0.92
21:AV:51:LEU:HD21	21:AV:64:ALA:N	1.83	0.92
34:BA:1001:A:N1	34:BA:1040:U:O4	2.01	0.92
34:BA:1269:A:H8	34:BA:1270:C:O4'	1.53	0.92
34:BA:236:G:H2'	34:BA:237:C:C6	2.03	0.92
34:BA:697:U:H2'	34:BA:698:G:O5'	1.67	0.92
34:BA:965:A:H1'	34:BA:969:A:C8	2.05	0.92
46:BN:31:THR:HG23	46:BN:42:TRP:HB3	1.48	0.92
48:BP:11:ARG:HH11	48:BP:11:ARG:HG3	1.34	0.92
2:AA:1365:A:H5''	28:A4:3:LYS:HD2	1.49	0.92
28:A4:5:LEU:CD1	28:A4:60:ASN:HD21	1.82	0.92
29:A5:50:GLY:HA2	29:A5:57:VAL:HB	1.48	0.92
32:A8:15:LYS:O	32:A8:22:VAL:HG13	1.70	0.92
32:A8:4:MET:HB2	32:A8:7:HIS:CE1	2.04	0.92
2:AA:1519:G:OP1	2:AA:1519:G:H4'	1.70	0.92
2:AA:2681:C:C5	2:AA:2727:G:N2	2.36	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2699:C:N4	2:AA:2708:G:N1	2.18	0.92
3:AC:173:ALA:HB1	3:AC:174:PRO:HD2	1.51	0.92
2:AA:1036:G:OP1	8:AH:59:HIS:HE1	1.51	0.92
9:AJ:69:ASN:HB2	9:AJ:122:GLY:HA3	1.50	0.92
12:AM:137:GLU:HA	12:AM:141:ALA:HB2	0.97	0.92
14:AO:66:VAL:HG23	14:AO:109:LEU:O	1.68	0.92
21:AV:70:GLN:HG3	21:AV:72:ASP:HB3	1.51	0.92
34:BA:1126:U:H2'	34:BA:1127:G:C8	2.04	0.92
34:BA:1470:G:O2'	34:BA:1471:G:H5'	1.70	0.92
34:BA:129(A):G:C6	34:BA:190(D):U:H4'	2.03	0.92
34:BA:531:U:H4'	34:BA:532:A:C5'	1.99	0.92
34:BA:777:A:H2'	34:BA:778:G:H8	1.32	0.92
38:BF:38:ARG:HB2	38:BF:94:LEU:HD21	1.49	0.92
42:BJ:145:ALA:O	42:BJ:146:GLU:HB3	1.69	0.92
10:AK:110:LEU:CD2	10:AK:114:LYS:HG3	1.98	0.92
25:A1:24:PHE:CE1	25:A1:29:SER:HA	2.04	0.92
25:A1:89:ASP:OD2	26:A2:52:GLY:N	2.01	0.92
30:A6:12:MET:HB2	30:A6:27:ASN:ND2	1.84	0.92
2:AA:136:G:O3'	2:AA:137:C:H4'	1.70	0.92
2:AA:1471:A:H62	2:AA:1519:G:N2	1.66	0.92
2:AA:1434:A:H61	2:AA:1558:A:H61	1.16	0.92
2:AA:1942:C:OP2	2:AA:1942:C:H3'	1.70	0.92
2:AA:2028:U:H2'	2:AA:2029:G:C8	2.05	0.92
2:AA:2231:C:H2'	2:AA:2232:U:H6	1.21	0.92
2:AA:2785:C:H4'	5:AE:99:VAL:CA	1.99	0.92
2:AA:612:G:H2'	2:AA:615:G:C4	2.05	0.92
2:AA:872:A:O2'	15:AP:31:PHE:HB2	1.69	0.92
2:AA:878:A:C2	2:AA:879:G:H5''	2.04	0.92
5:AE:109:ASP:OD2	5:AE:112:LEU:HG	1.68	0.92
2:AA:2771:C:H5'	5:AE:316:ARG:HD2	1.52	0.92
8:AH:10:ILE:HD11	8:AH:16:VAL:HG21	1.51	0.92
34:BA:1026:G:H2'	34:BA:1027:C:H5'	1.51	0.92
43:BK:10:LEU:CD1	43:BK:85:ARG:HB2	1.99	0.92
46:BN:54:ARG:HG3	46:BN:54:ARG:HH11	1.33	0.92
24:A0:45:ARG:HD3	24:A0:97:VAL:HG23	1.49	0.92
25:A1:44:THR:O	25:A1:47:TYR:HB2	1.69	0.92
29:A5:18:MET:O	29:A5:21:SER:OG	1.86	0.92
30:A6:28:ARG:HB2	30:A6:30:ASN:HB2	1.52	0.92
2:AA:2348:U:H3'	32:A8:42:ARG:NH2	1.84	0.92
2:AA:1014:U:O2'	2:AA:1015:G:H5'	1.68	0.92
2:AA:1035:U:H2'	2:AA:1036:G:C8	2.03	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1044:G:C2'	2:AA:1111:A:H2	1.82	0.92
2:AA:1559:G:C4	2:AA:1559:G:H3'	2.04	0.92
2:AA:1690:A:N6	2:AA:1697:G:H21	1.67	0.92
2:AA:1837:C:N4	2:AA:1903:G:H1	1.67	0.92
2:AA:1975:G:O2'	2:AA:1976:U:H5'	1.68	0.92
2:AA:2690:C:H41	24:A0:14:SER:HB2	1.34	0.92
2:AA:354:G:N3	2:AA:355:G:N7	2.17	0.92
2:AA:404:C:H4'	2:AA:405:U:C5'	1.99	0.92
2:AA:763:G:O2'	2:AA:764:A:H5''	1.70	0.92
5:AE:74:GLU:HA	5:AE:293:TYR:CD2	2.05	0.92
8:AH:21:ASN:HD22	8:AH:38:PRO:HD3	1.34	0.92
9:AJ:85:LEU:HD21	11:AL:69:ILE:HD11	1.49	0.92
2:AA:94:G:H21	22:AW:42:ASN:HD22	1.04	0.92
22:AW:20:LEU:CD2	22:AW:53:ILE:HG23	1.99	0.92
22:AW:54:ALA:HA	22:AW:57:LYS:HD2	1.51	0.92
23:AX:26:LEU:HB2	23:AX:28:LEU:HD11	1.50	0.92
34:BA:1286:A:N6	34:BA:1355:G:OP1	2.02	0.92
34:BA:599:C:H42	34:BA:639:G:H1	1.04	0.92
37:BE:118:LEU:CD1	37:BE:145:LEU:HG	2.00	0.92
37:BE:150:SER:HA	37:BE:153:ARG:HB3	1.51	0.92
38:BF:138:VAL:HG12	38:BF:170:GLN:HE21	1.35	0.92
44:BL:50:LEU:HD11	44:BL:56:LEU:HA	1.50	0.92
54:BV:32:LYS:CA	54:BV:50:ALA:HB3	2.00	0.92
2:AA:1064:C:H2'	2:AA:1065:U:H6	1.35	0.92
2:AA:1837:C:H42	2:AA:1903:G:H1	0.93	0.92
2:AA:2320:A:N6	16:AQ:9:PRO:HB3	1.85	0.92
2:AA:270(H):C:N3	2:AA:270(R):G:C2	2.38	0.92
2:AA:730:C:O2'	2:AA:731:C:H5'	1.70	0.92
2:AA:806:C:C2	2:AA:807:U:H5	1.87	0.92
2:AA:882:G:H1	2:AA:894:C:H42	1.05	0.92
3:AC:120:MET:SD	3:AC:138:PRO:HB2	2.09	0.92
3:AC:46:LYS:HE3	3:AC:210:ARG:HD3	1.50	0.92
4:AD:131:LEU:CD1	4:AD:187:CYS:HB2	2.00	0.92
5:AE:231:TRP:O	5:AE:232:ARG:HG3	1.68	0.92
10:AK:6:LEU:HD12	10:AK:35:LEU:HA	1.50	0.92
12:AM:80:LYS:HA	12:AM:83:ILE:HD11	1.52	0.92
16:AQ:34:LEU:HD21	16:AQ:129:ILE:HD11	1.51	0.92
20:AU:66:ASP:N	20:AU:72:ILE:HG12	1.85	0.92
2:AA:850:C:H4'	23:AX:18:ASP:CG	1.89	0.92
34:BA:1435:G:H2'	34:BA:1436:U:C5	2.05	0.92
34:BA:489:C:H2'	34:BA:490:G:H8	1.31	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:579:G:H2'	34:BA:580:U:H5'	1.50	0.92
34:BA:19:C:H1'	34:BA:864:A:N3	1.84	0.92
34:BA:886:G:O2'	34:BA:887:G:H5'	1.69	0.92
34:BA:964:A:C2	34:BA:969:A:H1'	2.04	0.92
37:BE:91:PRO:CG	37:BE:155:LEU:H	1.82	0.92
37:BE:67:THR:HB	37:BE:155:LEU:HD21	1.52	0.92
38:BF:31:HIS:O	38:BF:34:LEU:HB3	1.69	0.92
47:BO:41:ARG:HH12	47:BO:57:LYS:HE3	1.34	0.92
48:BP:23:TYR:HB3	48:BP:67:GLU:HA	1.50	0.92
52:BT:10:VAL:CG1	52:BT:53:LEU:HA	1.98	0.92
10:AK:94:THR:HG22	10:AK:97:GLN:CG	1.98	0.92
26:A2:72:ARG:HB2	26:A2:88:GLN:CG	1.99	0.92
2:AA:1195:G:N3	2:AA:1226:G:N2	2.17	0.92
2:AA:1365:A:H2'	2:AA:1366:A:C8	2.05	0.92
2:AA:1904:G:O2'	2:AA:1905:C:H5'	1.69	0.92
2:AA:1966:A:C2	2:AA:2593:U:H5'	2.04	0.92
2:AA:2355:C:N3	2:AA:2362:G:N2	2.18	0.92
2:AA:2445:G:H2'	2:AA:2446:G:C8	2.04	0.92
2:AA:2512:C:H4'	5:AE:235:ILE:HD12	1.52	0.92
2:AA:26:G:N1	2:AA:27:G:N2	2.18	0.92
2:AA:2818:G:H4'	2:AA:2837:G:C4'	1.99	0.92
2:AA:322:A:O4'	2:AA:341:G:H5'	1.69	0.92
2:AA:755:C:H2'	2:AA:756:C:H6	1.35	0.92
2:AA:869:G:H1	2:AA:908:C:N4	1.68	0.92
2:AA:860:U:H3	2:AA:917:A:H61	1.17	0.92
1:AB:84:C:N3	1:AB:92:G:N2	2.18	0.92
3:AC:36:LYS:HZ2	3:AC:36:LYS:HA	1.30	0.92
4:AD:199:ARG:HH11	4:AD:199:ARG:HG3	1.35	0.92
5:AE:42:ALA:HA	5:AE:311:PHE:CZ	2.04	0.92
2:AA:2312:U:C2'	7:AG:72:LYS:HZ2	1.83	0.92
9:AI:7:ILE:CD1	11:AL:118:ALA:HA	1.99	0.92
12:AM:58:GLU:CG	12:AM:139:LEU:HB3	2.00	0.92
12:AM:54:VAL:HG22	12:AM:135:ILE:CD1	1.99	0.92
20:AU:57:GLY:HA2	20:AU:97:ARG:NH2	1.84	0.92
34:BA:371:G:N2	34:BA:390:C:N3	2.17	0.92
35:BB:15:G:O2'	35:BB:16:U:H5''	1.70	0.92
35:BB:66:A:C3'	35:BB:67:A:H8	1.81	0.92
40:BH:47:LYS:HD2	40:BH:47:LYS:N	1.84	0.92
43:BK:47:GLY:O	43:BK:61:VAL:HG13	1.69	0.92
48:BP:108:ARG:HH11	48:BP:108:ARG:CA	1.82	0.92
52:BT:5:VAL:HG13	52:BT:59:ILE:O	1.69	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BU:55:ARG:HA	53:BU:55:ARG:HH11	1.34	0.92
53:BU:31:LEU:HD11	53:BU:62:GLU:OE2	1.70	0.92
2:AA:1012:U:H3'	2:AA:1012:U:C6	2.04	0.92
2:AA:1152:C:O3'	25:A1:80:ILE:HD13	1.70	0.92
2:AA:1943:U:C2	2:AA:1945:G:H5'	2.03	0.92
2:AA:2138:C:H2'	2:AA:2139:C:H6	1.31	0.92
2:AA:2215:G:H2'	2:AA:2216:G:C8	2.04	0.92
2:AA:1127:A:C2	2:AA:2518:A:N3	2.38	0.92
2:AA:2684:U:H3	2:AA:2725:A:H61	1.10	0.92
2:AA:2838:G:N2	2:AA:2880:C:N3	2.18	0.92
2:AA:717:G:C2	2:AA:718:A:H1'	2.05	0.92
2:AA:7:G:H2'	2:AA:8:A:H8	1.33	0.92
2:AA:945:A:N3	2:AA:945:A:H2'	1.84	0.92
1:AB:9:G:H1	1:AB:111:U:H3	1.09	0.92
5:AE:210:THR:HA	5:AE:216:ARG:HH22	1.20	0.92
2:AA:2052:G:H5'	5:AE:239:GLY:H	1.33	0.92
5:AE:45:LYS:HZ1	5:AE:301:PRO:C	1.72	0.92
13:AN:64:ARG:HH22	13:AN:100:GLY:HA3	1.12	0.92
20:AU:71:VAL:HG22	20:AU:93:THR:H	1.35	0.92
34:BA:1448:C:H42	34:BA:1455:G:H1	0.96	0.92
34:BA:858:G:H22	34:BA:869:G:C2'	1.80	0.92
35:BB:7:U:C4	35:BB:67:A:N1	2.37	0.92
38:BF:73:PRO:HD3	38:BF:105:GLU:HG3	1.48	0.92
31:A7:6:GLN:CD	31:A7:6:GLN:H	1.70	0.91
2:AA:1069:A:H4'	2:AA:1070:A:H5''	1.52	0.91
2:AA:2149:G:C2'	2:AA:2150:U:H5'	1.99	0.91
2:AA:2453:A:O2'	2:AA:2454:G:H5'	1.69	0.91
2:AA:259:G:H1'	2:AA:621:A:O2'	1.70	0.91
2:AA:429:A:H2'	2:AA:430:G:N7	1.84	0.91
2:AA:449:A:O2'	2:AA:450:G:H5'	1.70	0.91
2:AA:610:C:H42	2:AA:618(A):C:H42	0.98	0.91
2:AA:642:G:H21	2:AA:646:A:H61	0.94	0.91
1:AB:11:C:O2	1:AB:109:G:N1	2.02	0.91
14:AO:92:ASP:CB	14:AO:118:LEU:HB3	1.97	0.91
22:AW:26:GLU:O	22:AW:29:ASN:HB2	1.68	0.91
34:BA:1165:C:H42	34:BA:1171:G:H1	1.12	0.91
34:BA:1244:C:H42	34:BA:1293:G:H1	1.16	0.91
37:BE:163:PHE:CE2	37:BE:186:ALA:HA	2.05	0.91
37:BE:70:PHE:O	37:BE:92:TYR:HA	1.70	0.91
37:BE:77:ALA:O	37:BE:80:ILE:HB	1.70	0.91
39:BG:58:LEU:HD22	39:BG:58:LEU:O	1.70	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BO:46:LYS:HG2	47:BO:47:LYS:H	1.35	0.91
35:BB:29:A:H61	35:BB:41:U:H3	1.01	0.91
27:A3:37:LEU:CD1	27:A3:69:PHE:HB2	2.00	0.91
2:AA:1426:G:H1'	2:AA:1573:G:N2	1.84	0.91
2:AA:1741:C:O2'	2:AA:1742:C:H5'	1.71	0.91
2:AA:2083:G:H2'	2:AA:2084:C:H6	1.29	0.91
2:AA:2099:U:H3	2:AA:2190:G:H1	1.10	0.91
2:AA:945:A:N6	2:AA:2448:A:H2	1.68	0.91
2:AA:2059:A:C2	2:AA:2503:A:N6	2.38	0.91
2:AA:2521:C:H42	2:AA:2544:G:H1	0.91	0.91
2:AA:273(D):C:N3	2:AA:363(B):G:N2	2.18	0.91
2:AA:412:A:C2	2:AA:413:C:H1'	2.04	0.91
6:AF:5:ILE:HB	6:AF:14:GLY:O	1.71	0.91
2:AA:2316:C:H4'	7:AG:142:ALA:CB	2.01	0.91
8:AH:41:THR:N	8:AH:54:PRO:HG3	1.85	0.91
12:AM:21:ARG:HD2	12:AM:21:ARG:H	1.33	0.91
21:AV:33:ALA:O	21:AV:34:LEU:HD12	1.68	0.91
34:BA:1172:C:H2'	34:BA:1173:G:H8	1.36	0.91
35:BB:19:G:O3'	35:BB:20:G:C8	2.23	0.91
35:BB:33:U:C4	35:BB:35:A:P	2.63	0.91
35:BB:7:U:N3	35:BB:67:A:N1	2.19	0.91
37:BE:169:LYS:NZ	37:BE:170:GLU:HA	1.86	0.91
39:BG:133:VAL:HG11	39:BG:138:TYR:HB2	1.50	0.91
43:BK:6:ILE:HD13	43:BK:7:ALA:N	1.85	0.91
43:BK:98:LYS:N	43:BK:98:LYS:HZ2	1.68	0.91
49:BQ:14:PRO:C	49:BQ:16:PHE:H	1.70	0.91
24:A0:55:ALA:CB	24:A0:79:LEU:HD21	2.00	0.91
26:A2:3:ALA:O	26:A2:12:TYR:HE2	1.51	0.91
2:AA:1135:C:O2'	2:AA:1136:G:H5'	1.71	0.91
2:AA:1173:G:N2	2:AA:1175:U:H5'	1.85	0.91
2:AA:1225:C:OP1	26:A2:87:ARG:HB2	1.69	0.91
2:AA:1788:C:O2'	2:AA:1789:A:H5'	1.69	0.91
2:AA:1864:U:H2'	2:AA:1869:G:H5'	1.52	0.91
2:AA:2023:G:H2'	2:AA:2024:G:C8	2.04	0.91
2:AA:2209:C:H42	2:AA:2215:G:H1	1.09	0.91
2:AA:2373:G:N2	2:AA:2380:C:N3	2.18	0.91
2:AA:1966:A:O2'	2:AA:2593:U:OP1	1.87	0.91
2:AA:2657:A:H62	2:AA:2664:G:H21	0.98	0.91
2:AA:860:U:H3	2:AA:917:A:N6	1.68	0.91
2:AA:955:C:H42	2:AA:962:G:H1	0.92	0.91
3:AC:58:VAL:HG22	3:AC:201:PRO:HD3	1.51	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:146:ASN:O	8:AH:150:VAL:HG23	1.70	0.91
11:AL:79:LEU:HD21	11:AL:137:ILE:HG21	1.53	0.91
12:AM:45:VAL:O	12:AM:132:LEU:HD13	1.71	0.91
21:AV:156:GLU:HG2	21:AV:157:GLY:N	1.84	0.91
21:AV:34:LEU:O	21:AV:35:ASP:HB3	1.70	0.91
35:BB:34:G:N3	36:B1:66:G:O6	2.03	0.91
34:BA:1250:A:H4'	44:BL:67:GLY:C	1.91	0.91
34:BA:130:A:H5''	34:BA:190(F):G:H2'	1.52	0.91
34:BA:265:G:H2'	34:BA:267:C:H5	1.35	0.91
34:BA:862:C:H1'	34:BA:874:G:H5''	1.52	0.91
37:BE:54:THR:HG21	37:BE:201:ILE:HD11	1.52	0.91
43:BK:33:GLU:HA	43:BK:36:LEU:HD21	1.50	0.91
44:BL:47:LEU:HD21	44:BL:50:LEU:HD12	1.52	0.91
26:A2:28:GLU:O	26:A2:30:GLY:N	2.02	0.91
2:AA:1438:U:H2'	2:AA:1439:A:C5'	1.99	0.91
2:AA:1782:C:H5''	2:AA:1783:A:OP2	1.68	0.91
2:AA:237:C:N3	2:AA:260:G:N2	2.18	0.91
2:AA:2507:C:N4	2:AA:2582:G:N1	2.18	0.91
2:AA:2553:G:N2	2:AA:2583:G:O2'	2.03	0.91
2:AA:2671:A:H2'	2:AA:2672:G:C8	2.04	0.91
2:AA:481:G:N2	2:AA:507:A:H1'	1.85	0.91
2:AA:802:A:H2'	2:AA:803:U:H6	1.34	0.91
2:AA:983:A:H3'	2:AA:984:A:O4'	1.70	0.91
1:AB:46:A:H2'	1:AB:47:C:H6	1.31	0.91
6:AF:164:ALA:O	6:AF:167:ASP:HB2	1.71	0.91
7:AG:151:ILE:HD13	7:AG:156:ARG:NH2	1.85	0.91
8:AH:102:LEU:HD12	8:AH:104:LEU:HD11	1.52	0.91
34:BA:1007:C:N3	34:BA:1022:G:N2	2.17	0.91
34:BA:1261:A:N6	34:BA:1274:G:H1'	1.86	0.91
34:BA:193:C:H2'	34:BA:194:C:H6	1.35	0.91
43:BK:109:ILE:HG12	43:BK:137:VAL:O	1.70	0.91
44:BL:97:LYS:NZ	44:BL:102:LEU:HD11	1.86	0.91
48:BP:74:VAL:HG12	48:BP:78:ILE:CD1	2.00	0.91
35:BB:29:A:N6	35:BB:41:U:H3	1.67	0.91
40:BH:28:PHE:N	40:BH:28:PHE:HD1	1.66	0.91
2:AA:1361:G:H2'	2:AA:1362:C:H6	1.32	0.91
2:AA:1393:A:N6	19:AT:13:LYS:HZ2	1.67	0.91
2:AA:1810:A:H2'	2:AA:1811:G:C5'	1.99	0.91
2:AA:2329:G:H2'	2:AA:2330:G:H8	1.35	0.91
2:AA:2785:C:C4'	5:AE:99:VAL:HA	1.99	0.91
2:AA:2853:C:O2'	2:AA:2854:G:H5'	1.70	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:285:C:H42	2:AA:354:G:H22	1.16	0.91
2:AA:291:C:N3	2:AA:349:G:C2	2.39	0.91
3:AC:123:VAL:HG11	3:AC:138:PRO:HD2	1.53	0.91
5:AE:216:ARG:HH11	5:AE:253:GLN:CB	1.83	0.91
6:AF:83:ALA:N	6:AF:87:ARG:CZ	2.33	0.91
19:AT:22:ASN:HA	19:AT:68:LEU:CD1	2.00	0.91
35:BC:34:G:H1	36:B1:62:G:H1	1.15	0.91
34:BA:1192:C:C6	34:BA:1192:C:H3'	2.04	0.91
34:BA:1048:G:N2	34:BA:1209:C:N3	2.17	0.91
34:BA:1500:A:OP1	34:BA:1508:G:OP1	1.87	0.91
37:BE:53:ARG:NE	37:BE:199:TYR:HE2	1.66	0.91
37:BE:55:PHE:HA	37:BE:58:ILE:CD1	2.00	0.91
44:BL:48:GLU:HA	44:BL:51:ARG:HE	1.35	0.91
47:BO:41:ARG:HH12	47:BO:57:LYS:CE	1.83	0.91
48:BP:39:ILE:HG23	48:BP:55:ARG:HH22	1.35	0.91
49:BQ:42:ILE:O	49:BQ:46:GLU:HG3	1.71	0.91
2:AA:563:G:H21	25:A1:37:GLN:NE2	1.69	0.91
25:A1:69:ALA:HB3	25:A1:76:TYR:OH	1.70	0.91
2:AA:2231:C:OP1	28:A4:39:VAL:HA	1.69	0.91
2:AA:1687:G:N2	2:AA:1701:A:N7	2.17	0.91
2:AA:1810:A:C2'	2:AA:1811:G:H5'	2.00	0.91
2:AA:2093:G:H4'	10:AK:29:PHE:HE1	1.36	0.91
2:AA:2250:G:C5'	15:AP:102:ARG:HB3	1.99	0.91
2:AA:2323:G:H2'	2:AA:2324:C:C6	2.06	0.91
2:AA:2358:G:N3	2:AA:2358:G:H2'	1.86	0.91
2:AA:503:A:C4	2:AA:505:A:N7	2.39	0.91
2:AA:2749:A:C1'	8:AH:62:ALA:HB2	2.00	0.91
12:AM:84:ARG:HA	12:AM:87:LEU:HD13	1.53	0.91
15:AP:35:ASN:CG	21:AV:113:VAL:HB	1.91	0.91
34:BA:576:G:N7	34:BA:881:G:H1'	1.85	0.91
35:BC:15:G:H22	35:BC:48:C:H42	1.13	0.91
35:BC:37:G:C2'	35:BC:38:A:H8	1.81	0.91
24:A0:63:ARG:NH2	24:A0:77:ARG:HG2	1.86	0.91
2:AA:997:G:C5'	25:A1:92:ARG:HD2	1.97	0.91
2:AA:1492:G:N2	2:AA:1499:C:N4	2.19	0.91
2:AA:1655:A:C5'	5:AE:211:GLN:HA	1.99	0.91
2:AA:1741:C:C2'	2:AA:1742:C:H5'	2.01	0.91
2:AA:218:A:H3'	2:AA:219:G:H8	1.36	0.91
2:AA:285:C:H2'	2:AA:286:C:C2	2.05	0.91
2:AA:399:G:H2'	2:AA:400:G:H5'	1.51	0.91
4:AD:183:ILE:HG22	4:AD:184:LEU:N	1.85	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:216:ARG:HH21	5:AE:255:GLN:HA	1.35	0.91
8:AH:67:THR:HG22	8:AH:71:LEU:CD1	2.00	0.91
14:AO:94:ARG:HB2	14:AO:120:LEU:HD13	1.53	0.91
15:AP:86:ARG:CZ	15:AP:123:ILE:HD11	2.01	0.91
1:AB:37:C:O2	16:AQ:111:PRO:HG2	1.67	0.91
34:BA:110:C:H2'	34:BA:111:G:O4'	1.71	0.91
34:BA:1363:A:H5''	34:BA:1364:U:OP1	1.70	0.91
34:BA:329:A:H4'	34:BA:330:C:OP1	1.68	0.91
35:BB:53:G:C4	35:BB:54:U:C5	2.58	0.91
37:BE:115:LEU:HD22	37:BE:149:LEU:HD13	1.53	0.91
37:BE:15:VAL:HG22	37:BE:209:ARG:HD2	1.51	0.91
38:BF:88:ARG:CZ	38:BF:101:LEU:H	1.83	0.91
39:BG:60:GLU:HA	39:BG:63:LYS:HD2	0.95	0.91
40:BH:100:VAL:HG11	40:BH:107:ARG:HG3	1.51	0.91
34:BA:737:A:OP1	41:BI:91:VAL:HA	1.70	0.91
43:BK:93:VAL:O	43:BK:133:LEU:HG	1.70	0.91
44:BL:113:LYS:HZ3	44:BL:119:ALA:HB1	1.33	0.91
46:BN:95:ILE:HG21	46:BN:108:ILE:HD11	1.53	0.91
41:BI:97:PHE:CE2	53:BU:31:LEU:HD12	2.05	0.91
27:A3:61:ALA:O	27:A3:62:LEU:HD12	1.70	0.91
2:AA:1021:A:N3	2:AA:1122:G:O3'	2.03	0.91
2:AA:1567:A:C2	4:AD:84:PRO:HD3	2.04	0.91
2:AA:1940:U:H5'	2:AA:1941:C:OP1	1.71	0.91
2:AA:2283:C:N3	2:AA:2284:C:H1'	1.85	0.91
2:AA:2576:G:H5''	2:AA:2577:A:OP1	1.70	0.91
2:AA:2646:C:O2'	2:AA:2647:U:H5'	1.71	0.91
2:AA:363(C):G:H2'	2:AA:363(D):G:H5'	1.53	0.91
2:AA:870:A:H61	2:AA:907:U:H3	0.92	0.91
1:AB:116:G:H4'	16:AQ:64:SER:OG	1.71	0.91
6:AF:205:ARG:HG2	6:AF:212:VAL:CG2	2.01	0.91
13:AN:107:ARG:HG2	13:AN:115:ILE:HD13	1.51	0.91
13:AN:120:GLU:HG2	13:AN:122:ILE:HD11	1.51	0.91
14:AO:113:GLN:HB2	14:AO:115:ARG:CZ	1.99	0.91
34:BA:13:U:H6	34:BA:13:U:H5''	1.34	0.91
34:BA:373:A:O2'	34:BA:374:A:H5'	1.70	0.91
35:BC:55:U:N3	35:BC:58:A:OP2	2.03	0.91
37:BE:48:MET:N	37:BE:48:MET:SD	2.44	0.91
53:BU:56:THR:HB	53:BU:58:LEU:CG	2.00	0.91
10:AK:124:LEU:CG	10:AK:146:THR:HA	2.00	0.91
24:A0:61:HIS:CA	24:A0:64:ARG:HD3	2.00	0.91
2:AA:994:C:O2	25:A1:53:LYS:HB3	1.71	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:535:C:C4'	25:A1:53:LYS:HE2	2.01	0.91
26:A2:62:GLU:HB2	26:A2:96:LEU:HD21	1.52	0.91
32:A8:12:ARG:HH11	32:A8:13:ARG:NH1	1.68	0.91
2:AA:10:G:N2	2:AA:2629:A:C2	2.39	0.91
2:AA:1155:A:C2'	2:AA:1156:A:H5''	2.00	0.91
2:AA:1818:U:H3'	4:AD:155:ARG:CG	2.01	0.91
2:AA:1786:A:N1	2:AA:1938:A:C6	2.38	0.91
2:AA:1937:A:C3'	2:AA:1938:A:H5''	2.01	0.91
2:AA:2041:U:H2'	2:AA:2042:A:H5'	1.49	0.91
2:AA:2818:G:O2'	2:AA:2837:G:H5'	1.69	0.91
2:AA:791:C:O2	2:AA:793:A:O2'	1.87	0.91
2:AA:2123:G:O2'	3:AC:172:HIS:NE2	2.04	0.91
4:AD:143:ILE:O	4:AD:152:GLN:HB2	1.70	0.91
5:AE:263:GLU:N	5:AE:266:LYS:HZ1	1.68	0.91
5:AE:74:GLU:CA	5:AE:293:TYR:CE2	2.54	0.91
11:AL:116:LEU:HD21	11:AL:127:ILE:HD13	1.52	0.91
13:AN:61:VAL:O	13:AN:84:CYS:HB3	1.71	0.91
36:B1:59:A:H2'	36:B1:60:A:H5'	1.50	0.91
34:BA:834:C:H2'	34:BA:835:U:H6	1.36	0.91
39:BG:170:VAL:HG12	39:BG:171:GLY:H	1.33	0.91
34:BA:597:G:H21	43:BK:94:TYR:HE2	0.91	0.91
51:BS:6:LEU:HB2	51:BS:17:TYR:HB3	1.52	0.91
46:BN:110:ASP:HB2	53:BU:88:LYS:CG	2.00	0.91
37:BE:132:LYS:HE2	37:BE:132:LYS:N	1.86	0.91
2:AA:1906:G:H2'	2:AA:1907:G:H8	1.34	0.91
2:AA:2559:C:O2'	2:AA:2560:C:H5'	1.71	0.91
4:AD:89:ASN:C	4:AD:90:ILE:HD12	1.90	0.91
2:AA:2316:C:OP1	7:AG:143:LYS:HG3	1.71	0.91
14:AO:66:VAL:HG12	14:AO:67:ARG:N	1.83	0.91
14:AO:81:VAL:HG13	14:AO:116:HIS:NE2	1.85	0.91
15:AP:66:ASN:CB	15:AP:70:ARG:HH21	1.82	0.91
18:AS:40:ASN:ND2	18:AS:41:LYS:HD2	1.86	0.91
34:BA:193:C:H2'	34:BA:194:C:C6	2.06	0.91
34:BA:334:C:H2'	34:BA:335:C:C6	2.05	0.91
34:BA:909:A:H2'	34:BA:910:C:C5'	2.00	0.91
37:BE:14:GLY:HA3	37:BE:209:ARG:HH22	1.23	0.91
41:BI:67:MET:HE2	41:BI:72:VAL:HG22	1.53	0.91
54:BV:63:THR:O	54:BV:66:MET:HG2	1.71	0.91
55:BW:75:ASN:O	55:BW:78:ALA:HB3	1.70	0.91
35:BB:9:A:C2	35:BB:45:G:C6	2.58	0.91
37:BE:130:ARG:HD3	37:BE:131:PRO:HD2	1.53	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:A0:60:LEU:H	24:A0:60:LEU:HD23	1.36	0.90
31:A7:25:LYS:HE2	31:A7:25:LYS:CA	2.01	0.90
2:AA:1264:G:H3'	2:AA:1265:A:C5'	2.01	0.90
2:AA:1356:G:H2'	2:AA:1357:U:H6	1.35	0.90
2:AA:138:G:O2'	2:AA:140:A:H5'	1.71	0.90
2:AA:139:G:H3'	2:AA:141(A):C:O2	1.72	0.90
2:AA:1535:U:H5''	2:AA:1536:A:O5'	1.71	0.90
2:AA:1707:G:H1	2:AA:1751:C:H42	1.13	0.90
2:AA:1826:G:H2'	2:AA:1827:C:H5'	1.51	0.90
2:AA:1956:U:O2	2:AA:1956:U:H2'	1.71	0.90
2:AA:1966:A:N3	2:AA:2593:U:C5'	2.33	0.90
2:AA:270(C):C:N3	2:AA:270(W):G:N2	2.19	0.90
2:AA:270(C):C:N4	2:AA:270(W):G:H1	1.67	0.90
2:AA:607:U:O4	2:AA:621:A:N1	2.02	0.90
2:AA:791:C:O2'	2:AA:792:G:C5'	2.18	0.90
6:AF:81:PRO:C	6:AF:87:ARG:HH11	1.74	0.90
8:AH:151:ARG:H	8:AH:161:ILE:HD11	1.35	0.90
9:AI:110:GLU:CD	9:AJ:57:THR:HG21	1.91	0.90
2:AA:1058:G:H4'	9:AI:2:THR:CA	2.01	0.90
34:BA:1229:A:OP1	48:BP:116:THR:HG22	1.69	0.90
34:BA:1330:U:H4'	48:BP:23:TYR:CZ	2.05	0.90
34:BA:888:G:H21	34:BA:909:A:H62	1.01	0.90
35:BC:74:C:C3'	35:BC:75:C:H5''	2.01	0.90
43:BK:29:SER:HB3	43:BK:32:LYS:HZ2	1.36	0.90
35:BB:42:G:H5''	35:BB:43:G:P	2.11	0.90
10:AK:141:LEU:HD22	10:AK:142:LYS:H	1.35	0.90
50:BR:77:ARG:NH1	50:BR:77:ARG:HB3	1.85	0.90
2:AA:1020:A:H1'	12:AM:49:ARG:CZ	2.01	0.90
2:AA:1131:G:H4'	2:AA:1132:A:OP1	1.69	0.90
2:AA:1800:C:C6	2:AA:1800:C:H3'	2.06	0.90
2:AA:1928:A:H5'	2:AA:1929:G:OP2	1.70	0.90
2:AA:2093:G:N2	2:AA:2197:U:O2	2.03	0.90
2:AA:2250:G:H5''	15:AP:102:ARG:CB	2.01	0.90
2:AA:2031:A:H62	2:AA:2498:C:H1'	1.35	0.90
2:AA:2619:C:O2'	2:AA:2620:C:C5'	2.18	0.90
2:AA:2532:G:N2	2:AA:2662:A:N1	2.18	0.90
2:AA:270(C):C:C2	2:AA:270(W):G:N2	2.38	0.90
2:AA:270(X):G:C6	2:AA:270(Y):G:H1'	2.07	0.90
2:AA:771:G:H2'	2:AA:772:C:C6	2.05	0.90
2:AA:893:C:H2'	2:AA:894:C:H6	1.35	0.90
3:AC:59:ARG:HD2	3:AC:164:ARG:HD2	1.51	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:240:LEU:O	6:AF:243:VAL:CB	2.17	0.90
2:AA:1105:U:O2'	9:AI:27:ASP:O	1.89	0.90
15:AP:68:ALA:HB2	15:AP:139:ALA:CB	2.01	0.90
19:AT:57:THR:HB	19:AT:59:ASP:OD2	1.70	0.90
21:AV:19:ILE:H	21:AV:36:ARG:HG3	1.35	0.90
23:AX:45:GLY:HA2	23:AX:48:GLU:OE2	1.70	0.90
34:BA:1133:G:H1	34:BA:1141:C:N4	1.69	0.90
34:BA:605:U:H2'	34:BA:606:G:C8	2.05	0.90
35:BB:34:G:H2'	35:BB:35:A:H5''	0.93	0.90
35:BB:67:A:C2	35:BB:68:U:C5	2.58	0.90
37:BE:27:LYS:HB3	37:BE:194:PRO:HG2	1.50	0.90
47:BO:72:GLY:HA3	47:BO:102:ARG:NH1	1.87	0.90
2:AA:1426:G:H1'	2:AA:1573:G:H22	1.35	0.90
2:AA:2429:G:H5''	2:AA:2430:A:OP2	1.72	0.90
2:AA:2821:A:H3'	2:AA:2821:A:OP2	1.69	0.90
2:AA:2850:A:N3	2:AA:2869:G:H4'	1.85	0.90
2:AA:292:C:H3'	2:AA:293:U:C4	2.06	0.90
2:AA:373:U:C2	2:AA:400:G:N2	2.39	0.90
2:AA:627:A:N6	2:AA:636:G:O2'	2.05	0.90
1:AB:49:C:H2'	1:AB:50:G:H8	1.34	0.90
5:AE:222:ARG:HH11	5:AE:222:ARG:CG	1.81	0.90
7:AG:22:VAL:HB	7:AG:24:HIS:CE1	2.06	0.90
11:AL:79:LEU:HD22	11:AL:137:ILE:HD13	1.50	0.90
2:AA:2727:G:H4'	13:AN:70:ARG:NH2	1.87	0.90
14:AO:94:ARG:HD3	14:AO:120:LEU:HD22	1.51	0.90
17:AR:10:GLY:N	17:AR:52:THR:HB	1.85	0.90
18:AS:40:ASN:HD22	18:AS:41:LYS:CD	1.83	0.90
34:BA:1068:G:N7	34:BA:1094:G:C8	2.39	0.90
34:BA:1139:G:H1	34:BA:1143:G:H22	0.92	0.90
34:BA:1144:G:N2	34:BA:1146:A:H62	1.67	0.90
34:BA:113:G:H1'	34:BA:354:G:H5''	1.52	0.90
34:BA:410:G:N3	34:BA:432:A:N6	2.19	0.90
40:BH:151:LEU:HD21	43:BK:67:PRO:HD3	1.52	0.90
41:BI:100:ASN:ND2	53:BU:23:LYS:HG2	1.86	0.90
43:BK:40:ALA:N	43:BK:45:ILE:HG23	1.84	0.90
50:BR:38:ARG:HH11	50:BR:38:ARG:CB	1.80	0.90
51:BS:20:VAL:HG11	51:BS:32:TYR:CB	2.02	0.90
52:BT:81:ARG:HG2	52:BT:84:LEU:HD11	1.53	0.90
36:B1:21:U:O2	36:B1:33:G:O6	1.88	0.90
2:AA:1020:A:H4'	12:AM:49:ARG:NH1	1.85	0.90
2:AA:1351:C:H2'	2:AA:1352:U:H6	1.34	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2009:G:H4'	18:AS:40:ASN:HD21	1.37	0.90
2:AA:2209:C:C4'	4:AD:149:ARG:HH21	1.84	0.90
2:AA:2227:A:N1	2:AA:2228:G:C6	2.40	0.90
2:AA:2391:G:H2'	2:AA:2392:A:OP2	1.72	0.90
2:AA:2495:G:H4'	15:AP:101:MET:CB	2.02	0.90
2:AA:783:A:H4'	2:AA:2588:G:O3'	1.71	0.90
2:AA:641:C:H2'	2:AA:642:G:O4'	1.71	0.90
2:AA:815:C:C2'	2:AA:816:C:H5'	2.02	0.90
2:AA:93:C:H2'	2:AA:94:G:C8	2.05	0.90
2:AA:663:G:N2	2:AA:940:G:OP1	2.04	0.90
4:AD:167:GLU:HG2	4:AD:182:MET:HE1	1.53	0.90
5:AE:39:GLN:OE1	5:AE:174:LEU:HD21	1.72	0.90
9:AI:63:LEU:HD11	9:AI:102:ILE:HD12	1.51	0.90
15:AP:125:TRP:O	15:AP:126:VAL:HG23	1.70	0.90
16:AQ:23:ARG:O	16:AQ:33:ARG:NH1	2.05	0.90
18:AS:66:GLU:O	18:AS:69:LEU:HG	1.72	0.90
34:BA:118:U:H3	34:BA:289:G:H4'	1.36	0.90
37:BE:16:HIS:CE1	37:BE:213:LEU:HD13	2.06	0.90
41:BI:82:ARG:O	41:BI:85:VAL:HG23	1.71	0.90
43:BK:61:VAL:HG12	43:BK:62:TYR:H	1.36	0.90
51:BS:14:ASN:HA	51:BS:42:ARG:NH2	1.86	0.90
55:BW:63:ILE:HG23	55:BW:77:ALA:HB1	1.51	0.90
25:A1:91:ASN:HD21	26:A2:10:LYS:HE2	1.37	0.90
2:AA:1064:C:H2'	2:AA:1065:U:C6	2.07	0.90
2:AA:1087:G:H21	2:AA:1103:A:C2'	1.84	0.90
2:AA:1530:G:O6	2:AA:1541:U:C2	2.24	0.90
2:AA:1669:A:H8	13:AN:4:GLN:OE1	1.53	0.90
2:AA:2832:U:H1'	2:AA:2834:G:H21	1.36	0.90
2:AA:296:C:C2	2:AA:344:G:N2	2.39	0.90
2:AA:774:A:H5''	2:AA:778:G:H4'	1.52	0.90
2:AA:882:G:H2'	2:AA:883:G:H8	1.36	0.90
9:AJ:71:ILE:HG23	11:AL:61:TYR:CD1	2.07	0.90
10:AK:12:LYS:CE	10:AK:14:LYS:HE3	2.01	0.90
13:AN:64:ARG:NH2	13:AN:100:GLY:CA	2.29	0.90
15:AP:34:GLY:HA2	15:AP:74:ASN:O	1.71	0.90
16:AQ:60:SER:O	16:AQ:88:ALA:HA	1.72	0.90
23:AX:43:ILE:H	23:AX:43:ILE:CD1	1.82	0.90
34:BA:1225:A:H5'	54:BV:78:ARG:NH1	1.86	0.90
34:BA:1310:G:H2'	34:BA:1311:G:H8	1.36	0.90
34:BA:911:U:H2'	34:BA:912:C:H6	1.34	0.90
34:BA:991:U:O2'	34:BA:993:G:H1'	1.71	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BC:47:U:C5	35:BC:49:C:H5"	2.07	0.90
42:BJ:107:ALA:HB1	42:BJ:123:GLU:OE1	1.70	0.90
53:BU:47:THR:N	53:BU:49:LYS:HZ1	1.68	0.90
10:AK:141:LEU:HD22	10:AK:142:LYS:N	1.87	0.90
26:A2:3:ALA:HB2	26:A2:44:GLN:OE1	1.70	0.90
28:A4:68:ARG:CG	28:A4:72:LYS:HG2	2.01	0.90
29:A5:15:LYS:CA	29:A5:18:MET:HG2	2.01	0.90
2:AA:2841:C:H2'	2:AA:2842:G:H8	1.26	0.90
2:AA:531:C:H5'	2:AA:532:A:C2	2.05	0.90
2:AA:861:A:N6	2:AA:916:G:H21	1.68	0.90
1:AB:52:A:C2	1:AB:53:A:H1'	2.06	0.90
3:AC:26:ALA:HB1	3:AC:185:LEU:HD13	1.52	0.90
3:AC:70:LYS:HG2	3:AC:157:LYS:NZ	1.86	0.90
5:AE:222:ARG:HH22	5:AE:234:ARG:HB2	1.36	0.90
9:AI:22:VAL:HG13	9:AI:38:ALA:HB1	1.54	0.90
13:AN:52:VAL:O	13:AN:56:GLN:HG3	1.71	0.90
13:AN:8:LEU:HD23	13:AN:8:LEU:N	1.86	0.90
20:AU:42:VAL:HG12	20:AU:43:ASN:N	1.85	0.90
34:BA:1263:C:N4	34:BA:1272:G:H1	1.69	0.90
34:BA:157:G:H1	34:BA:164:U:H3	0.97	0.90
35:BB:60:C:OP2	35:BB:61:C:C6	2.24	0.90
42:BJ:111:ARG:HB3	42:BJ:111:ARG:HH11	1.36	0.90
43:BK:126:LYS:HZ2	43:BK:127:LEU:HB2	1.36	0.90
48:BP:110:ARG:HH11	48:BP:110:ARG:HB2	1.36	0.90
45:BM:22:LYS:NZ	45:BM:90:LEU:HB2	1.86	0.90
26:A2:67:LYS:HG2	26:A2:70:TYR:HE1	1.35	0.90
2:AA:1026:U:C6	2:AA:1026:U:H5'	2.06	0.90
2:AA:1058:G:O2'	2:AA:1059:G:H5'	1.71	0.90
2:AA:1069:A:C4'	2:AA:1070:A:H5"	2.02	0.90
2:AA:1267:U:H5	2:AA:2012:G:N2	1.69	0.90
2:AA:1558:A:C2	2:AA:1560:G:H1'	2.06	0.90
2:AA:1718:G:C2	2:AA:1741:C:N3	2.39	0.90
2:AA:1907:G:N2	2:AA:1923:U:O2	2.04	0.90
2:AA:2019:A:H2'	2:AA:2020:A:O4'	1.72	0.90
2:AA:2579:C:H2'	2:AA:2580:U:H5'	1.52	0.90
2:AA:2640:G:H1	2:AA:2774:C:N4	1.70	0.90
2:AA:2662:A:H2'	2:AA:2663:G:H5'	1.51	0.90
2:AA:528:A:C8	2:AA:528:A:H3'	2.06	0.90
2:AA:574:C:H41	2:AA:2054:A:C5'	1.84	0.90
2:AA:595:C:H42	2:AA:662:G:H1	1.16	0.90
2:AA:71:A:H4'	2:AA:72:U:H3'	1.51	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:182:PRO:HA	3:AC:185:LEU:HD12	1.54	0.90
3:AC:39:GLU:HG2	3:AC:216:THR:CB	2.01	0.90
4:AD:222:PRO:C	4:AD:224:VAL:H	1.72	0.90
16:AQ:27:LEU:H	16:AQ:33:ARG:HH12	1.10	0.90
34:BA:1001:A:H2	34:BA:1040:U:H3	1.19	0.90
34:BA:1089:G:H1	34:BA:1096:C:H42	1.12	0.90
34:BA:1163:C:N3	34:BA:1173:G:N2	2.20	0.90
35:BC:34:G:C3'	35:BC:35:A:H5''	2.02	0.90
37:BE:180:LEU:O	37:BE:181:PHE:HB2	1.72	0.90
38:BF:142:MET:HA	38:BF:146:ALA:HB3	1.53	0.90
39:BG:141:ARG:HB3	39:BG:142:PRO:CD	1.96	0.90
40:BH:78:HIS:CG	43:BK:107:LEU:HD11	2.06	0.90
42:BJ:114:ARG:HH11	42:BJ:114:ARG:HG2	1.37	0.90
46:BN:16:SER:O	46:BN:35:PRO:HG3	1.70	0.90
47:BO:46:LYS:HE3	47:BO:47:LYS:HE3	1.53	0.90
47:BO:60:LEU:HD13	47:BO:60:LEU:N	1.84	0.90
51:BS:58:TYR:HD1	51:BS:59:TRP:N	1.69	0.90
51:BS:67:THR:HB	51:BS:70:ALA:HB2	1.52	0.90
55:BW:23:ARG:C	55:BW:26:ASN:HD21	1.75	0.90
27:A3:46:LYS:HE2	27:A3:58:THR:O	1.72	0.90
28:A4:13:LYS:O	28:A4:14:ILE:HB	1.72	0.90
32:A8:52:LYS:O	32:A8:54:GLU:N	2.03	0.90
33:A9:7:VAL:HG13	33:A9:34:GLN:OE1	1.72	0.90
2:AA:1579:A:H2'	2:AA:1580:A:O4'	1.71	0.90
2:AA:2345:G:N7	2:AA:2371:G:N2	2.18	0.90
2:AA:2640:G:HO2'	12:AM:70:PHE:HE2	0.93	0.90
2:AA:2699:C:N4	2:AA:2708:G:H1	1.70	0.90
2:AA:270(H):C:N3	2:AA:270(R):G:N2	2.19	0.90
2:AA:775:G:N2	2:AA:787:U:O3'	2.05	0.90
2:AA:775:G:H2'	2:AA:794:G:C5	2.07	0.90
2:AA:886:C:H4'	2:AA:887:A:O5'	1.68	0.90
2:AA:919:G:H2'	2:AA:920:G:H8	1.30	0.90
12:AM:60:ARG:HA	12:AM:71:TYR:CD2	2.06	0.90
13:AN:47:THR:HB	13:AN:48:PRO:HD2	1.54	0.90
14:AO:55:GLN:HG3	14:AO:56:LYS:H	1.35	0.90
16:AQ:27:LEU:H	16:AQ:33:ARG:NH1	1.68	0.90
18:AS:13:SER:O	18:AS:17:VAL:HG23	1.71	0.90
18:AS:34:ASN:ND2	29:A5:39:LYS:HB2	1.86	0.90
21:AV:154:LEU:HD13	21:AV:160:LEU:HD11	1.54	0.90
22:AW:52:ALA:O	22:AW:56:ILE:HG13	1.72	0.90
23:AX:53:LEU:O	23:AX:53:LEU:HD23	1.71	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1222:G:OP1	54:BV:77:THR:HG21	1.71	0.90
34:BA:112:G:C5'	34:BA:389:A:H4'	2.01	0.90
37:BE:184:VAL:O	37:BE:198:ASP:HB2	1.71	0.90
39:BG:25:ARG:HE	39:BG:30:LYS:HD3	1.36	0.90
39:BG:64:LEU:HA	39:BG:67:ILE:CD1	2.01	0.90
46:BN:61:ALA:HB1	46:BN:94:ALA:CB	2.00	0.90
37:BE:131:PRO:HG2	37:BE:134:GLU:HG2	1.51	0.90
2:AA:1818:U:H3'	4:AD:155:ARG:HG2	1.53	0.90
2:AA:1941:C:N4	2:AA:1965:C:H1'	1.86	0.90
2:AA:2139:C:N3	2:AA:2152:G:O6	2.05	0.90
2:AA:2089:U:H3	2:AA:2231:C:H42	0.93	0.90
2:AA:2484:G:H2'	2:AA:2485:G:H5'	1.52	0.90
2:AA:783:A:C2'	2:AA:784:A:H4'	2.02	0.90
2:AA:959:A:C6	2:AA:960:A:N6	2.39	0.90
3:AC:36:LYS:HG3	3:AC:37:PHE:HD2	1.34	0.90
5:AE:267:ARG:O	5:AE:297:LYS:HG3	1.72	0.90
16:AQ:81:ALA:HB3	16:AQ:117:ALA:HB1	1.52	0.90
19:AT:34:LYS:NZ	19:AT:52:VAL:HG12	1.87	0.90
34:BA:559:A:H4'	34:BA:560:U:H5''	1.50	0.90
35:BB:60:C:OP2	35:BB:61:C:H5	1.55	0.90
37:BE:56:ARG:HB3	37:BE:56:ARG:HH11	1.33	0.90
38:BF:30:ARG:HG2	38:BF:30:ARG:HH11	1.37	0.90
38:BF:84:ILE:CG1	38:BF:101:LEU:HD22	2.02	0.90
41:BI:50:TYR:HE2	41:BI:52:ILE:HD11	1.36	0.90
46:BN:79:SER:CA	46:BN:104:GLN:HB3	1.99	0.90
53:BU:45:SER:HB3	53:BU:51:LEU:HD11	1.53	0.90
35:BB:1:G:O6	35:BB:73:A:C6	2.22	0.90
26:A2:74:TYR:CZ	26:A2:88:GLN:HA	2.06	0.90
2:AA:1275:A:C2	24:A0:16:HIS:HB3	2.06	0.90
2:AA:2110:G:C8	2:AA:2120:G:OP2	2.24	0.90
2:AA:20:C:O2'	2:AA:21:A:H5'	1.71	0.90
2:AA:2334:G:H1	16:AQ:10:MET:CE	1.85	0.90
2:AA:2491:U:H5'	2:AA:2570:G:C5'	2.01	0.90
2:AA:2574:G:H1'	5:AE:240:PRO:HB3	1.53	0.90
2:AA:2581:G:O6	2:AA:2610:C:C2'	2.19	0.90
2:AA:468:G:H2'	2:AA:469:G:O4'	1.71	0.90
2:AA:484:C:H2'	2:AA:485:C:H6	1.06	0.90
8:AH:34:ARG:HD2	8:AH:36:PHE:CE1	2.07	0.90
16:AQ:19:ASP:HB2	16:AQ:22:GLN:HE21	1.28	0.90
17:AR:50:GLU:HA	17:AR:55:ALA:CB	2.02	0.90
18:AS:72:LYS:HB3	18:AS:106:ILE:HG21	1.51	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AT:24:LEU:HB2	19:AT:26:PHE:HZ	1.29	0.90
34:BA:1127:G:H1'	34:BA:1148:U:H3	1.34	0.90
34:BA:582:U:H3	34:BA:759:A:N6	1.70	0.90
39:BG:170:VAL:HG21	39:BG:176:LEU:HB3	1.54	0.90
52:BT:85:VAL:O	52:BT:89:LEU:HG	1.71	0.90
53:BU:58:LEU:HB2	53:BU:63:GLN:HE22	1.37	0.90
24:A0:100:LEU:HD21	24:A0:113:LEU:HB2	1.52	0.89
2:AA:195:A:OP2	2:AA:196:A:H4'	1.71	0.89
2:AA:2016:U:H2'	2:AA:2017:U:O4'	1.70	0.89
2:AA:2312:U:H2'	7:AG:72:LYS:HZ2	1.36	0.89
2:AA:845:G:H5''	2:AA:846:C:OP1	1.72	0.89
2:AA:917:A:H2'	2:AA:918:A:C4'	2.02	0.89
2:AA:986:C:H3'	2:AA:986:C:C6	2.07	0.89
1:AB:89:G:H2'	1:AB:89(A):A:N7	1.85	0.89
5:AE:102:ASP:HA	5:AE:104:PHE:CE2	2.07	0.89
12:AM:39:VAL:HB	12:AM:106:GLY:O	1.71	0.89
12:AM:84:ARG:HB3	12:AM:98:PHE:HE2	1.35	0.89
15:AP:56:ILE:O	15:AP:112:ALA:HB1	1.71	0.89
34:BA:1259:C:H42	34:BA:1276:G:H1	1.17	0.89
34:BA:1316:G:OP2	34:BA:1316:G:H8	1.55	0.89
38:BF:12:LEU:HD22	38:BF:17:ASP:HA	1.53	0.89
34:BA:675:A:H1'	46:BN:116:HIS:ND1	1.87	0.89
55:BW:13:LEU:CD1	55:BW:13:LEU:H	1.85	0.89
26:A2:33:VAL:HB	26:A2:63:HIS:CD2	2.05	0.89
27:A3:40:GLN:HG2	27:A3:67:VAL:O	1.72	0.89
2:AA:1081:U:H2'	2:AA:1082:U:C5	2.07	0.89
2:AA:1173:G:H22	2:AA:1175:U:C5'	1.84	0.89
2:AA:586:A:C6	2:AA:1254:A:H2	1.89	0.89
2:AA:1675:C:O2	2:AA:1675:C:H2'	1.71	0.89
2:AA:2107:C:N4	2:AA:2182:G:H1	1.69	0.89
2:AA:2125:G:N2	2:AA:2174:C:N4	2.20	0.89
2:AA:2254:C:C2'	2:AA:2255:G:H5'	2.01	0.89
2:AA:2321:G:H21	2:AA:2322:A:H1'	1.37	0.89
2:AA:2527:C:OP1	33:A9:30:VAL:HG13	1.71	0.89
2:AA:350:U:H2'	2:AA:350:U:O2	1.71	0.89
2:AA:470:A:C2	2:AA:471:A:H1'	2.07	0.89
2:AA:635:C:H2'	2:AA:636:G:H8	1.36	0.89
4:AD:79:THR:HG23	4:AD:111:VAL:HG13	1.54	0.89
5:AE:219:VAL:HG11	5:AE:235:ILE:CD1	2.02	0.89
8:AH:94:ARG:HB3	8:AH:127:GLN:HE22	1.35	0.89
9:AI:1:MET:HE2	9:AJ:86:LYS:CD	2.03	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:44:ALA:HB3	12:AM:132:LEU:HD23	1.52	0.89
16:AQ:105:GLY:O	16:AQ:106:LEU:HD23	1.72	0.89
20:AU:87:VAL:HG13	20:AU:88:PRO:HD2	1.54	0.89
34:BA:1002:G:N3	34:BA:1003:G:H1'	1.87	0.89
34:BA:828:A:N1	34:BA:859:A:O4'	2.04	0.89
34:BA:965:A:OP1	34:BA:1198:G:OP1	1.91	0.89
38:BF:130:VAL:O	38:BF:133:ALA:HB3	1.72	0.89
39:BG:25:ARG:NE	39:BG:30:LYS:HD3	1.87	0.89
41:BI:89:MET:HG2	53:BU:76:LEU:HD21	1.53	0.89
43:BK:12:ARG:HH12	43:BK:27:PRO:HD3	1.30	0.89
44:BL:67:GLY:N	44:BL:73:GLN:HE21	1.70	0.89
45:BM:30:SER:HB3	45:BM:80:LYS:HG3	1.54	0.89
26:A2:59:GLU:CG	26:A2:100:GLY:H	1.84	0.89
26:A2:72:ARG:HB2	26:A2:88:GLN:NE2	1.87	0.89
2:AA:1054:A:N1	2:AA:1105:U:O2	2.06	0.89
2:AA:1317:A:H2'	2:AA:1318:C:H6	1.35	0.89
2:AA:1341:U:O2'	2:AA:1342:A:OP1	1.89	0.89
2:AA:1368:G:OP1	31:A7:25:LYS:HD2	1.72	0.89
2:AA:1664:A:C2	2:AA:1665:A:N6	2.40	0.89
2:AA:2185:C:H2'	2:AA:2186:G:H8	1.38	0.89
2:AA:2313:C:OP1	7:AG:51:ARG:HB3	1.71	0.89
2:AA:2282:G:N2	2:AA:2425:A:C8	2.41	0.89
2:AA:2748:A:C8	8:AH:62:ALA:HB1	2.06	0.89
2:AA:808:G:H2'	2:AA:809:G:C8	2.06	0.89
4:AD:76:ARG:HD3	4:AD:113:MET:CB	2.03	0.89
5:AE:237:ASN:C	5:AE:238:LEU:HD22	1.93	0.89
5:AE:256:THR:HA	5:AE:259:HIS:CE1	2.07	0.89
6:AF:83:ALA:CB	6:AF:87:ARG:NH2	2.34	0.89
7:AG:19:GLU:OE1	7:AG:135:VAL:HG22	1.72	0.89
8:AH:10:ILE:CD1	8:AH:16:VAL:HG21	2.01	0.89
22:AW:55:ARG:H	22:AW:55:ARG:HD2	1.36	0.89
34:BA:1124:G:H1	34:BA:1149:C:H42	1.18	0.89
34:BA:1540:U:H2'	34:BA:1541:U:O4'	1.73	0.89
34:BA:880:C:O2'	34:BA:881:G:H5'	1.72	0.89
34:BA:975:A:C4'	34:BA:976:G:H5'	2.02	0.89
37:BE:167:PRO:O	37:BE:169:LYS:N	2.06	0.89
37:BE:73:THR:HG21	37:BE:97:TRP:H	1.34	0.89
40:BH:95:ALA:HB1	40:BH:96:PRO:HD3	1.52	0.89
42:BJ:129:GLU:HB3	42:BJ:131:LYS:HG2	1.52	0.89
42:BJ:12:LEU:HD22	42:BJ:24:THR:HB	1.55	0.89
42:BJ:36:LYS:HZ2	42:BJ:36:LYS:HB2	1.38	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BL:62:TYR:C	44:BL:63:ILE:HD12	1.92	0.89
51:BS:6:LEU:HD23	51:BS:17:TYR:CD2	2.07	0.89
54:BV:18:LYS:O	54:BV:22:LEU:HB2	1.71	0.89
55:BW:72:LEU:HD22	55:BW:77:ALA:N	1.88	0.89
27:A3:65:GLY:HA2	27:A3:66:LYS:NZ	1.86	0.89
30:A6:18:THR:C	30:A6:20:PHE:N	2.19	0.89
2:AA:1252:G:H22	25:A1:37:GLN:NE2	1.70	0.89
2:AA:1363:C:H1'	2:AA:1810:A:H1'	1.54	0.89
2:AA:218:A:H2'	2:AA:219:G:O4'	1.72	0.89
2:AA:2417:C:O2'	2:AA:2418:A:H5'	1.72	0.89
2:AA:2468:G:H22	2:AA:2481:G:H2'	1.36	0.89
2:AA:2508:G:O2'	2:AA:2509:G:H5'	1.71	0.89
2:AA:2564:A:OP1	2:AA:2648:C:H4'	1.71	0.89
2:AA:2582:G:O2'	2:AA:2583:G:H5'	1.72	0.89
2:AA:2779:U:H1'	2:AA:2781:A:H62	1.32	0.89
2:AA:800:A:O2'	2:AA:801:G:C3'	2.20	0.89
2:AA:928:G:H2'	2:AA:929:G:C5	2.06	0.89
2:AA:974(A):C:C6	2:AA:1186:G:N1	2.39	0.89
5:AE:43:GLY:O	5:AE:309:PRO:HD2	1.71	0.89
7:AG:19:GLU:HB3	7:AG:135:VAL:CG2	2.02	0.89
8:AH:137:LYS:HD2	8:AH:138:GLN:H	1.37	0.89
8:AH:83:GLU:HB2	8:AH:133:LYS:HG2	1.53	0.89
2:AA:636:G:OP1	14:AO:127:GLU:HG2	1.73	0.89
16:AQ:34:LEU:HG	16:AQ:101:VAL:O	1.71	0.89
21:AV:45:GLN:H	21:AV:45:GLN:HE21	1.20	0.89
34:BA:922:G:O2'	34:BA:1398:A:N1	2.05	0.89
34:BA:942:G:H21	44:BL:124:GLN:NE2	1.68	0.89
39:BG:163:GLU:HG3	39:BG:164:ALA:N	1.85	0.89
40:BH:65:ASN:HD21	40:BH:136:MET:HE2	1.36	0.89
42:BJ:72:ARG:HH12	42:BJ:138:LYS:HZ1	0.92	0.89
43:BK:112:LEU:HD21	43:BK:131:GLY:CA	2.02	0.89
43:BK:95:VAL:HB	43:BK:99:GLU:OE1	1.71	0.89
44:BL:19:LEU:HD22	44:BL:59:PHE:HB3	1.53	0.89
45:BM:5:ARG:CZ	45:BM:5:ARG:HB2	2.02	0.89
47:BO:90:VAL:HG12	47:BO:93:LEU:HD21	1.53	0.89
24:A0:63:ARG:HH22	24:A0:77:ARG:HA	1.36	0.89
25:A1:26:GLY:O	25:A1:27:SER:HB2	1.71	0.89
29:A5:45:ILE:HG13	29:A5:52:TYR:CE1	2.05	0.89
2:AA:1084:A:C8	9:AI:37:VAL:HB	2.07	0.89
2:AA:1171:G:N1	2:AA:1179:C:N4	2.17	0.89
2:AA:1202:C:N4	2:AA:1243:G:H1	1.70	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1255:U:H5''	2:AA:1256:G:C5'	2.02	0.89
2:AA:1752:C:N3	2:AA:1756:G:N2	2.20	0.89
2:AA:2432:A:N7	28:A4:30:GLU:HB3	1.88	0.89
2:AA:2739:U:C6	2:AA:2739:U:H3'	2.05	0.89
2:AA:27:G:HO2'	2:AA:28:A:H8	1.14	0.89
2:AA:528:A:H8	2:AA:528:A:H3'	1.37	0.89
2:AA:71:A:H4'	2:AA:72:U:H5''	1.52	0.89
2:AA:929:G:H1'	23:AX:43:ILE:HD11	1.52	0.89
34:BA:1095:U:H5'	34:BA:1109:C:O2	1.71	0.89
34:BA:1107:C:H2'	34:BA:1108:G:H5'	1.53	0.89
34:BA:276:G:C2'	34:BA:277:C:H5'	2.03	0.89
35:BC:16:U:H5'	35:BC:18:G:H5''	1.54	0.89
38:BF:91:LEU:HD11	38:BF:99:VAL:HG22	1.52	0.89
43:BK:10:LEU:HD11	43:BK:85:ARG:HB2	1.51	0.89
45:BM:29:ARG:HB2	45:BM:84:GLN:HE22	1.35	0.89
48:BP:91:ARG:NH1	48:BP:96:LEU:HD12	1.88	0.89
52:BT:38:ARG:HG3	52:BT:39:SER:N	1.86	0.89
2:AA:1114:G:N2	2:AA:1115:G:H1'	1.87	0.89
27:A3:38:VAL:C	27:A3:40:GLN:H	1.74	0.89
2:AA:1338:G:H4'	19:AT:12:GLU:OE1	1.71	0.89
2:AA:1350:C:N4	2:AA:1381:G:N1	2.11	0.89
2:AA:1906:G:H2'	2:AA:1907:G:C8	2.08	0.89
2:AA:1943:U:H1'	2:AA:1945:G:C5'	2.01	0.89
2:AA:2657:A:H62	2:AA:2664:G:N2	1.71	0.89
2:AA:270(A):A:N6	2:AA:270(Z):U:H5''	1.87	0.89
2:AA:617:G:C8	2:AA:618:G:N7	2.41	0.89
2:AA:858:U:H2'	2:AA:2268:A:H2'	1.55	0.89
2:AA:870:A:N1	2:AA:907:U:O2	2.05	0.89
2:AA:850:C:H42	2:AA:928:G:H1	1.17	0.89
3:AC:83:ILE:O	3:AC:87:GLU:HG3	1.72	0.89
4:AD:74:PRO:CD	4:AD:96:ALA:HB2	2.02	0.89
5:AE:45:LYS:HZ3	5:AE:301:PRO:HG2	0.76	0.89
2:AA:1012:U:O2	12:AM:21:ARG:HG2	1.73	0.89
13:AN:11:ALA:CA	13:AN:99:PHE:HB2	2.02	0.89
14:AO:141:GLU:CB	14:AO:145:LEU:HD22	2.02	0.89
18:AS:19:LEU:CD2	29:A5:25:LEU:HG	2.01	0.89
21:AV:34:LEU:HD13	21:AV:39:PHE:CZ	2.07	0.89
34:BA:1296:C:C5	34:BA:1297:C:N4	2.39	0.89
34:BA:1410:G:H1	34:BA:1490:C:H42	1.15	0.89
34:BA:953:G:N7	48:BP:104:ARG:NH2	2.20	0.89
39:BG:193:ASP:C	39:BG:194:LEU:HD22	1.93	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BM:16:LEU:HB3	45:BM:70:ARG:HG2	1.55	0.89
52:BT:10:VAL:HB	52:BT:54:GLY:N	1.87	0.89
53:BU:58:LEU:HB3	53:BU:62:GLU:HB3	1.55	0.89
54:BV:5:LEU:HD12	54:BV:9:VAL:HG22	1.55	0.89
55:BW:72:LEU:HD13	55:BW:77:ALA:HB2	1.54	0.89
10:AK:147:GLU:C	10:AK:149:LYS:H	1.69	0.89
25:A1:55:ARG:HA	25:A1:58:ARG:HG3	1.55	0.89
29:A5:15:LYS:O	29:A5:18:MET:HG2	1.73	0.89
2:AA:1085:A:OP1	9:AI:36:PRO:HD2	1.71	0.89
2:AA:1239:G:O2'	2:AA:1240:U:H6	1.53	0.89
2:AA:1414:G:H2'	2:AA:1415:U:C6	2.07	0.89
2:AA:1403:C:H4'	2:AA:1471:A:C5'	2.01	0.89
2:AA:1747:G:O2'	2:AA:1748:G:H5'	1.73	0.89
2:AA:1841:U:H2'	2:AA:1842:G:C8	2.07	0.89
2:AA:1936:A:C4	2:AA:1940:U:N3	2.40	0.89
2:AA:1969:A:C4'	2:AA:1970:A:H5'	2.01	0.89
2:AA:2059:A:H2	2:AA:2503:A:N6	1.68	0.89
2:AA:2331:G:N2	2:AA:2385:C:H41	1.71	0.89
2:AA:2416:C:O2'	2:AA:2417:C:H5''	1.73	0.89
2:AA:2636:U:H4'	5:AE:84:ARG:NH1	1.88	0.89
2:AA:270(S):G:H2'	2:AA:270(T):G:H8	1.36	0.89
2:AA:328:U:H2'	2:AA:328:U:O2	1.72	0.89
2:AA:600:G:OP1	6:AF:27:ARG:HD3	1.72	0.89
2:AA:607:U:C4	2:AA:621:A:C6	2.61	0.89
2:AA:987:G:C2'	2:AA:988:A:H5'	2.02	0.89
4:AD:60:GLN:O	4:AD:62:ARG:HD3	1.71	0.89
6:AF:225:PRO:O	6:AF:231:ARG:HG3	1.71	0.89
8:AH:22:THR:HG22	8:AH:34:ARG:O	1.73	0.89
11:AL:67:THR:O	11:AL:68:PHE:HB2	1.72	0.89
12:AM:45:VAL:HG22	12:AM:131:THR:N	1.87	0.89
21:AV:112:LEU:CD2	21:AV:171:VAL:HB	2.02	0.89
34:BA:1291:G:H2'	34:BA:1292:U:C6	2.08	0.89
40:BH:95:ALA:HB1	40:BH:96:PRO:CD	2.02	0.89
42:BJ:46:ALA:HA	42:BJ:49:ILE:HD12	1.53	0.89
47:BO:41:ARG:HH22	47:BO:57:LYS:HZ2	1.17	0.89
50:BR:33:THR:HG23	50:BR:63:ARG:HH11	1.38	0.89
10:AK:147:GLU:C	10:AK:149:LYS:N	2.23	0.89
25:A1:28:ARG:H	25:A1:28:ARG:NH1	1.71	0.89
25:A1:89:ASP:CG	26:A2:52:GLY:N	2.26	0.89
2:AA:2056:G:N2	29:A5:4:HIS:O	2.06	0.89
2:AA:1130:U:O2'	2:AA:1131:G:OP1	1.90	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1275:A:H61	24:A0:19:ALA:HB2	1.38	0.89
2:AA:1676:A:H2'	2:AA:1677:A:H8	1.34	0.89
2:AA:2810:A:H2'	2:AA:2811:G:C5'	2.03	0.89
2:AA:2832:U:C6	2:AA:2832:U:H5'	2.08	0.89
5:AE:317:PRO:CG	5:AE:320:GLN:HG2	2.01	0.89
12:AM:63:ILE:O	12:AM:69:TYR:HB3	1.72	0.89
13:AN:7:ARG:HB3	13:AN:44:LYS:NZ	1.86	0.89
15:AP:12:PRO:HB3	15:AP:20:ILE:HD11	1.54	0.89
17:AR:49:LEU:C	17:AR:49:LEU:HD23	1.93	0.89
18:AS:88:ARG:C	18:AS:90:ARG:H	1.72	0.89
21:AV:67:LYS:NZ	21:AV:67:LYS:HA	1.88	0.89
34:BA:1250:A:H2'	34:BA:1251:A:H8	1.37	0.89
34:BA:13:U:O4	34:BA:21:G:O6	1.89	0.89
34:BA:394:G:H2'	34:BA:395:C:H6	1.37	0.89
34:BA:992:U:H4'	34:BA:993:G:O5'	1.73	0.89
37:BE:24:TRP:CZ3	37:BE:26:PRO:HA	2.08	0.89
48:BP:4:ILE:HD12	48:BP:8:GLU:O	1.73	0.89
51:BS:3:LYS:CD	51:BS:24:ALA:HB2	2.03	0.89
55:BW:88:VAL:HG12	55:BW:92:LEU:HD11	1.53	0.89
10:AK:77:VAL:HG12	10:AK:79:ILE:CD1	2.02	0.89
25:A1:69:ALA:HB1	25:A1:79:PHE:CE1	2.08	0.89
29:A5:13:LYS:O	29:A5:17:ASP:OD1	1.91	0.89
29:A5:15:LYS:HA	29:A5:18:MET:CG	2.01	0.89
2:AA:1188:U:O2'	2:AA:1189:A:H5'	1.73	0.89
2:AA:1197:G:C6	2:AA:1198:U:C5	2.60	0.89
2:AA:123:G:H1	2:AA:128:C:H42	1.19	0.89
2:AA:2336:A:H2'	2:AA:2337:G:H5'	1.53	0.89
2:AA:2852:G:H1	2:AA:2865:U:H3	0.90	0.89
2:AA:930:U:H5'	2:AA:931:G:OP2	1.73	0.89
2:AA:949:C:H2'	2:AA:950:G:H8	1.36	0.89
2:AA:972:G:C8	2:AA:974:G:OP1	2.25	0.89
4:AD:210:LYS:HG3	4:AD:211:HIS:H	1.37	0.89
5:AE:39:GLN:CB	5:AE:174:LEU:HG	2.03	0.89
5:AE:269:ILE:CG1	5:AE:297:LYS:HG2	2.02	0.89
7:AG:46:GLY:O	7:AG:47:GLN:HG3	1.72	0.89
11:AL:95:LYS:O	11:AL:97:VAL:HG22	1.72	0.89
15:AP:16:ARG:CB	15:AP:19:TYR:HB2	2.03	0.89
15:AP:56:ILE:HG22	15:AP:61:LEU:CD1	2.03	0.89
18:AS:88:ARG:O	18:AS:90:ARG:N	2.04	0.89
34:BA:965:A:O2'	34:BA:966:G:C5'	2.20	0.89
35:BC:44:A:N6	35:BC:45:G:N2	2.21	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BH:11:ILE:HG22	40:BH:12:LEU:N	1.87	0.89
43:BK:115:SER:O	43:BK:116:LYS:HD2	1.72	0.89
34:BA:667:G:H4'	50:BR:51:HIS:ND1	1.87	0.89
55:BW:30:LYS:HZ2	55:BW:30:LYS:HB2	1.33	0.89
10:AK:93:ILE:CD1	10:AK:121:ILE:HB	2.00	0.89
26:A2:39:PHE:O	26:A2:40:VAL:HG13	1.73	0.89
2:AA:1030:G:H1	2:AA:1124:C:N4	1.69	0.89
2:AA:1151:G:O3'	25:A1:81:ASN:OD1	1.89	0.89
2:AA:1488:G:H2'	2:AA:1489:U:H5'	1.53	0.89
2:AA:1556:C:H2'	2:AA:1557:C:C6	2.08	0.89
2:AA:1995:U:H5'	2:AA:1996:C:H5'	1.53	0.89
2:AA:2519:U:OP1	2:AA:2519:U:H3'	1.73	0.89
2:AA:270:A:H2'	2:AA:270(A):A:C4'	2.03	0.89
2:AA:273(D):C:N4	2:AA:363(B):G:N1	2.21	0.89
2:AA:458:G:O2'	2:AA:469:G:N1	2.05	0.89
2:AA:801:G:OP1	6:AF:79:ARG:HD3	1.72	0.89
5:AE:79:ARG:HA	5:AE:186:GLU:HA	1.54	0.89
6:AF:45:ASP:HB3	6:AF:98:ARG:CZ	2.03	0.89
6:AF:55:ARG:HA	6:AF:79:ARG:NH2	1.88	0.89
7:AG:102:GLY:O	7:AG:134:LEU:HB2	1.73	0.89
2:AA:1083:U:H2'	9:AI:37:VAL:HA	0.89	0.89
12:AM:56:LYS:O	12:AM:59:LYS:HB2	1.73	0.89
13:AN:64:ARG:HB2	13:AN:79:PHE:CE1	2.07	0.89
2:AA:873:G:H4'	15:AP:32:LYS:HG2	1.54	0.89
15:AP:48:ASN:ND2	15:AP:122:PHE:H	1.71	0.89
19:AT:25:GLN:OE1	19:AT:65:VAL:HG13	1.73	0.89
2:AA:99:U:H3	20:AU:107:LYS:CD	1.85	0.89
21:AV:46:GLN:NE2	21:AV:50:GLY:HA3	1.87	0.89
34:BA:1000:U:H3	34:BA:1041:A:H2	1.19	0.89
34:BA:1193:G:H2'	34:BA:1194:U:C5'	2.01	0.89
34:BA:1346:A:H4'	34:BA:1347:G:O5'	1.73	0.89
34:BA:1495:U:O2'	34:BA:1496:C:H5'	1.73	0.89
34:BA:333:G:C4'	55:BW:16:HIS:HE2	1.85	0.89
34:BA:511:C:HO2'	34:BA:512:U:H6	0.90	0.89
37:BE:88:ALA:HA	37:BE:222:ILE:CD1	2.03	0.89
37:BE:77:ALA:O	37:BE:80:ILE:N	2.06	0.89
41:BI:33:TYR:CE1	41:BI:75:LEU:HD23	2.07	0.89
34:BA:551:U:H5'	47:BO:119:LYS:CE	2.03	0.89
2:AA:1051:G:H4'	2:AA:2752:C:O2'	1.72	0.89
2:AA:1113:U:H2'	2:AA:1114:G:H8	1.34	0.89
45:BM:22:LYS:HE2	45:BM:90:LEU:HD12	1.55	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:A3:36:ILE:HB	27:A3:68:VAL:CG1	2.03	0.88
2:AA:1063:G:N1	2:AA:1075:C:N4	2.22	0.88
2:AA:1267:U:C5	2:AA:2012:G:N2	2.40	0.88
2:AA:1333:C:H5'	2:AA:1333:C:H6	1.37	0.88
2:AA:2456:C:O2'	2:AA:2457:U:H5'	1.73	0.88
2:AA:2737:G:N2	2:AA:2767:C:N3	2.21	0.88
2:AA:503:A:H1'	2:AA:505:A:C8	2.08	0.88
2:AA:687:C:H42	2:AA:775:G:H1	1.08	0.88
2:AA:58:G:H2'	2:AA:73:A:C6	2.08	0.88
3:AC:22:ILE:HD11	3:AC:193:ILE:HD11	1.51	0.88
6:AF:162:VAL:O	6:AF:165:ASP:HB2	1.73	0.88
8:AH:86:LEU:HD21	8:AH:161:ILE:HG22	1.53	0.88
12:AM:87:LEU:HD13	12:AM:98:PHE:CE2	2.08	0.88
15:AP:68:ALA:CB	15:AP:139:ALA:HB2	2.01	0.88
17:AR:23:HIS:ND1	17:AR:24:LYS:O	2.06	0.88
34:BA:1086:U:O4	34:BA:1099:G:O6	1.90	0.88
34:BA:1203:C:OP1	49:BQ:2:ALA:HB2	1.73	0.88
34:BA:1314:C:H41	54:BV:4:SER:CB	1.86	0.88
34:BA:988:G:O6	34:BA:1217:C:N3	2.05	0.88
37:BE:69:LEU:CB	37:BE:162:ILE:HG22	2.02	0.88
39:BG:9:CYS:SG	39:BG:31:CYS:C	2.51	0.88
42:BJ:31:MET:HG2	42:BJ:32:ARG:H	1.36	0.88
43:BK:33:GLU:CG	43:BK:59:LEU:HD11	2.02	0.88
45:BM:32:ALA:CB	45:BM:76:ASN:HD22	1.82	0.88
48:BP:52:GLU:O	48:BP:56:LEU:HG	1.73	0.88
48:BP:89:GLY:O	48:BP:93:ARG:HB2	1.72	0.88
50:BR:39:LEU:HD21	50:BR:56:LEU:HD22	1.54	0.88
50:BR:32:LEU:HB3	50:BR:63:ARG:HG2	1.55	0.88
32:A8:26:LYS:HD2	32:A8:44:LYS:N	1.87	0.88
2:AA:1403:C:C5'	2:AA:1471:A:H5'	2.04	0.88
2:AA:1492:G:HO2'	2:AA:1493:C:H6	0.92	0.88
2:AA:2067:G:H1	2:AA:2443:C:H42	1.15	0.88
2:AA:954:G:H2'	2:AA:955:C:O4'	1.73	0.88
4:AD:154:VAL:HG22	4:AD:157:ALA:HB1	1.54	0.88
4:AD:158:GLY:HA2	4:AD:194:VAL:HG21	1.55	0.88
5:AE:211:GLN:OE1	5:AE:212:GLY:O	1.91	0.88
8:AH:82:TYR:O	8:AH:133:LYS:HA	1.74	0.88
13:AN:64:ARG:CZ	13:AN:100:GLY:HA3	2.03	0.88
20:AU:21:LYS:NZ	20:AU:22:GLN:HE21	1.71	0.88
34:BA:70:G:H1	34:BA:98:U:H3	1.14	0.88
35:BB:6:U:N3	35:BB:68:U:N3	2.20	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BH:16:THR:O	40:BH:26:PHE:HB2	1.73	0.88
41:BI:77:ARG:CA	41:BI:80:ARG:HD2	2.00	0.88
44:BL:97:LYS:HZ2	44:BL:102:LEU:HD11	1.37	0.88
44:BL:74:ILE:HA	44:BL:77:ILE:CD1	2.03	0.88
47:BO:84:LEU:H	47:BO:104:VAL:HG11	1.31	0.88
50:BR:78:TYR:CE2	50:BR:82:ILE:HD11	2.09	0.88
53:BU:29:PHE:CE1	53:BU:39:VAL:HG11	2.09	0.88
53:BU:49:LYS:HE3	53:BU:49:LYS:H	1.30	0.88
24:A0:53:HIS:HA	24:A0:56:LYS:HG3	1.55	0.88
27:A3:39:ARG:HG2	27:A3:69:PHE:CZ	2.09	0.88
2:AA:2021:C:P	29:A5:15:LYS:HE3	2.13	0.88
30:A6:16:ALA:O	30:A6:48:VAL:HG11	1.73	0.88
2:AA:1799:G:C6	4:AD:177:SER:HB2	2.07	0.88
2:AA:2314:C:H5'	7:AG:22:VAL:HG11	1.55	0.88
2:AA:2463:C:N3	2:AA:2487:G:O6	2.06	0.88
2:AA:245:G:H22	2:AA:254:G:H1'	0.74	0.88
2:AA:2700:C:H2'	2:AA:2701:C:C4'	2.02	0.88
2:AA:301:G:H2'	2:AA:302:C:C6	2.07	0.88
2:AA:363(D):G:O2'	2:AA:363(E):U:H5'	1.73	0.88
2:AA:714:U:H2'	2:AA:715:G:OP2	1.70	0.88
2:AA:94:G:N2	22:AW:42:ASN:ND2	2.20	0.88
4:AD:80:ILE:HB	4:AD:82:TYR:CE1	2.07	0.88
5:AE:222:ARG:NH2	5:AE:234:ARG:HB2	1.88	0.88
6:AF:52:ALA:HA	6:AF:55:ARG:HE	1.35	0.88
6:AF:81:PRO:HA	6:AF:87:ARG:HG2	1.55	0.88
8:AH:117:GLU:O	8:AH:120:LEU:HG	1.73	0.88
2:AA:1083:U:O3'	9:AI:37:VAL:C	2.11	0.88
10:AK:21:VAL:HB	10:AK:26:ALA:CB	2.04	0.88
13:AN:43:VAL:HG11	13:AN:54:LYS:CA	2.02	0.88
13:AN:2:ILE:HG13	13:AN:67:ARG:HH21	1.36	0.88
15:AP:42:TYR:CD2	21:AV:119:ASN:HA	2.08	0.88
20:AU:71:VAL:HG13	20:AU:72:ILE:N	1.87	0.88
21:AV:52:PHE:N	21:AV:65:LEU:HD11	1.88	0.88
34:BA:1305:G:N2	34:BA:1331:G:H2'	1.87	0.88
34:BA:343:U:O2	34:BA:346:G:N1	2.07	0.88
34:BA:817:C:N4	34:BA:1529:G:O6	2.06	0.88
34:BA:923:A:OP1	40:BH:21:ALA:HB2	1.74	0.88
46:BN:79:SER:OG	46:BN:106:LYS:HE2	1.73	0.88
55:BW:79:ARG:HA	55:BW:82:SER:HB3	1.56	0.88
2:AA:1508:A:C8	2:AA:1508:A:H3'	2.07	0.88
37:BE:139:LYS:O	37:BE:143:GLU:HB2	1.74	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:A4:43:TRP:HA	28:A4:61:LYS:CE	2.03	0.88
2:AA:1024:G:C6	2:AA:1025:G:N7	2.42	0.88
2:AA:1184:G:H2'	2:AA:1185:C:H5'	1.53	0.88
2:AA:1273:U:H4'	2:AA:1275:A:OP2	1.74	0.88
2:AA:1936:A:N9	2:AA:1940:U:N3	2.21	0.88
2:AA:2092:U:H5	2:AA:2227:A:N6	1.70	0.88
2:AA:2312:U:H5'	7:AG:53:LYS:CA	2.01	0.88
2:AA:2715:C:H2'	2:AA:2716:U:C6	2.08	0.88
2:AA:2850:A:C2	2:AA:2869:G:H4'	2.07	0.88
2:AA:407:G:H1	2:AA:420:C:H42	0.89	0.88
2:AA:959:A:H2'	2:AA:960:A:H8	1.39	0.88
2:AA:976:C:H42	2:AA:987:G:H1	1.15	0.88
5:AE:199:ALA:CA	5:AE:312:ARG:O	2.21	0.88
6:AF:82:GLN:N	6:AF:87:ARG:NH1	2.21	0.88
9:AJ:78:ARG:HH22	11:AL:59:THR:HG21	1.37	0.88
9:AI:3:ILE:CG2	11:AL:117:ASN:HA	2.02	0.88
11:AL:129:GLU:O	11:AL:133:LYS:HG3	1.72	0.88
12:AM:56:LYS:HA	12:AM:59:LYS:HG3	1.53	0.88
13:AN:64:ARG:HG2	13:AN:64:ARG:O	1.73	0.88
18:AS:4:LYS:HD2	18:AS:106:ILE:HG12	1.55	0.88
34:BA:1333:A:O2'	34:BA:1334:G:H5'	1.74	0.88
35:BC:35:A:H8	35:BC:35:A:H5'	1.35	0.88
39:BG:12:CYS:SG	39:BG:19:LEU:O	2.32	0.88
39:BG:61:LYS:HZ3	39:BG:65:ARG:HD2	1.38	0.88
47:BO:41:ARG:HH22	47:BO:57:LYS:NZ	1.70	0.88
52:BT:6:LEU:HD22	52:BT:23:VAL:HG11	1.55	0.88
8:AH:168:VAL:HG12	8:AH:169:ARG:H	1.36	0.88
2:AA:1155:A:O5'	25:A1:55:ARG:NH1	2.05	0.88
2:AA:1264:G:N7	2:AA:1265:A:C5	2.41	0.88
2:AA:1287:A:O4'	24:A0:104:ARG:HD2	1.73	0.88
2:AA:1534:G:N1	2:AA:1538:G:H1'	1.88	0.88
2:AA:1917:U:H3'	2:AA:1917:U:C6	2.09	0.88
2:AA:1965:C:H3'	2:AA:1966:A:H8	1.36	0.88
2:AA:2053:G:H1	2:AA:2616:C:H42	1.21	0.88
2:AA:221:A:H4'	2:AA:222:A:H5'	1.55	0.88
2:AA:2317:C:C5'	7:AG:150:SER:HA	2.03	0.88
2:AA:2645:G:H4'	2:AA:2732:G:O2'	1.73	0.88
2:AA:25:U:O2	2:AA:515:A:N1	2.06	0.88
3:AC:28:LEU:HA	3:AC:31:GLU:CD	1.93	0.88
3:AC:5:LYS:HZ1	3:AC:8:ARG:HB3	1.36	0.88
3:AC:74:VAL:HG22	3:AC:112:ALA:HB3	1.54	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:225:LYS:HB3	5:AE:226:HIS:CE1	2.09	0.88
7:AG:105:SER:HB3	7:AG:130:VAL:O	1.74	0.88
12:AM:54:VAL:HA	12:AM:135:ILE:HG23	1.54	0.88
14:AO:108:VAL:CB	14:AO:125:PHE:HD2	1.86	0.88
15:AP:17:ARG:C	15:AP:22:GLY:HA3	1.93	0.88
15:AP:65:ARG:HH22	15:AP:87:LYS:H	1.19	0.88
18:AS:8:ARG:HG2	18:AS:9:TYR:N	1.86	0.88
15:AP:35:ASN:HD21	21:AV:114:ASP:N	1.71	0.88
22:AW:53:ILE:CG2	22:AW:57:LYS:HE3	2.01	0.88
34:BA:299:G:H2'	34:BA:300:A:C8	2.07	0.88
34:BA:417:C:N3	34:BA:426:G:N2	2.20	0.88
34:BA:620:C:H2'	34:BA:621:A:O4'	1.72	0.88
34:BA:757:U:H5'	34:BA:878:G:N2	1.89	0.88
34:BA:965:A:O2'	34:BA:966:G:H5''	1.73	0.88
41:BI:22:GLU:O	41:BI:26:ILE:HG13	1.73	0.88
52:BT:60:ILE:HD13	52:BT:62:SER:OG	1.72	0.88
6:AF:61:PHE:C	6:AF:65:ARG:NH2	2.27	0.88
36:B1:23:U:H2'	36:B1:24:A:O4'	1.72	0.88
27:A3:66:LYS:N	27:A3:66:LYS:HD2	1.89	0.88
2:AA:107:C:H2'	2:AA:108:U:H6	1.38	0.88
2:AA:1780:A:O2'	2:AA:1781:C:OP1	1.91	0.88
2:AA:2635:C:O2	2:AA:2635:C:H2'	1.74	0.88
2:AA:311:A:N1	2:AA:331:A:OP2	2.07	0.88
2:AA:511:U:H5	2:AA:512:G:N3	1.71	0.88
1:AB:93:C:H2'	1:AB:94:C:C6	2.08	0.88
5:AE:175:ASP:HA	5:AE:178:LEU:HG	1.54	0.88
15:AP:151:SER:HB3	15:AP:155:GLY:O	1.74	0.88
20:AU:78:THR:HA	20:AU:89:ARG:HG3	1.54	0.88
21:AV:149:ALA:O	21:AV:152:ILE:HG13	1.72	0.88
21:AV:51:LEU:CD2	21:AV:64:ALA:H	1.86	0.88
23:AX:7:LYS:HB2	23:AX:34:GLU:HG2	1.55	0.88
34:BA:1410:G:H1	34:BA:1490:C:N4	1.70	0.88
34:BA:1507:A:N1	34:BA:1528:U:O4	2.06	0.88
35:BB:57:G:H2'	35:BB:58:A:C5'	2.03	0.88
35:BC:17:U:H3'	35:BC:18:G:H8	1.38	0.88
38:BF:58:GLU:HB2	38:BF:65:ALA:HB2	1.55	0.88
41:BI:33:TYR:CD2	41:BI:75:LEU:HB2	2.09	0.88
41:BI:75:LEU:HD22	41:BI:78:GLU:HB3	1.54	0.88
47:BO:25:PRO:C	47:BO:27:LEU:H	1.76	0.88
22:AW:39:ALA:CB	22:AW:40:PRO:HD3	2.02	0.88
26:A2:35:LEU:H	26:A2:60:VAL:HG13	1.37	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1527:G:N1	2:AA:1544:C:N4	2.17	0.88
2:AA:764:A:H62	2:AA:1776:G:H1'	1.39	0.88
2:AA:1991:U:C3'	2:AA:1991:U:H6	1.86	0.88
2:AA:2444:G:H2'	2:AA:2445:G:C8	2.09	0.88
2:AA:2573:C:O5'	2:AA:2574:G:OP1	1.90	0.88
2:AA:2634:G:O2'	2:AA:2635:C:H5'	1.74	0.88
2:AA:261:G:O4'	2:AA:608:A:H2	1.54	0.88
2:AA:864:G:H2'	2:AA:865:C:C6	2.09	0.88
2:AA:917:A:H3'	2:AA:918:A:H5''	1.55	0.88
2:AA:987:G:H2'	2:AA:988:A:C5'	2.02	0.88
4:AD:158:GLY:HA2	4:AD:194:VAL:CG2	2.04	0.88
7:AG:24:HIS:HB3	7:AG:72:LYS:HA	1.56	0.88
11:AL:10:LYS:HG2	11:AL:57:VAL:HG22	1.54	0.88
12:AM:53:ILE:HG23	12:AM:135:ILE:CG1	2.04	0.88
12:AM:80:LYS:O	12:AM:83:ILE:HG13	1.74	0.88
12:AM:83:ILE:O	12:AM:87:LEU:HD12	1.73	0.88
15:AP:12:PRO:CG	15:AP:92:VAL:H	1.87	0.88
21:AV:91:PRO:CD	21:AV:127:PRO:HB3	2.03	0.88
21:AV:13:LYS:CE	21:AV:18:MET:SD	2.61	0.88
34:BA:1089:G:H1	34:BA:1096:C:N4	1.72	0.88
34:BA:1271:G:OP1	34:BA:1314:C:H5''	1.72	0.88
34:BA:157:G:N2	34:BA:164:U:O2	2.06	0.88
34:BA:726:C:N4	34:BA:731:G:H1	1.72	0.88
37:BE:15:VAL:HG21	37:BE:209:ARG:HD2	1.53	0.88
38:BF:175:LEU:HD11	38:BF:201:TYR:CD2	2.08	0.88
43:BK:24:THR:HG22	43:BK:61:VAL:O	1.72	0.88
46:BN:84:VAL:O	46:BN:85:ARG:HD3	1.73	0.88
48:BP:22:ILE:HD12	48:BP:25:ILE:CD1	2.04	0.88
10:AK:81:ALA:HB3	10:AK:89:LEU:HD22	1.55	0.88
35:BB:9:A:N6	35:BB:22:G:C8	2.42	0.88
25:A1:55:ARG:HG2	25:A1:58:ARG:HH21	1.39	0.88
2:AA:1203:G:HO2'	2:AA:1241:A:H2	0.90	0.88
2:AA:1536:A:H2'	2:AA:1537:C:H5'	1.56	0.88
2:AA:2185:C:H2'	2:AA:2186:G:C8	2.09	0.88
2:AA:2219:G:H2'	2:AA:2224:G:C5'	2.04	0.88
2:AA:2509:G:N2	2:AA:2510:C:H1'	1.87	0.88
2:AA:2747:G:C2'	2:AA:2748:A:H5''	2.04	0.88
2:AA:2043:C:N4	2:AA:2777:G:N3	2.22	0.88
2:AA:673:C:H5''	6:AF:80:VAL:HG13	1.56	0.88
2:AA:2124:G:OP1	3:AC:133:PRO:HD3	1.73	0.88
3:AC:14:VAL:HG22	3:AC:28:LEU:CD2	2.04	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:22:ILE:HD12	3:AC:190:ARG:CZ	2.04	0.88
4:AD:168:GLY:HA3	4:AD:170:TYR:CE2	2.08	0.88
2:AA:2636:U:C4'	5:AE:84:ARG:HH12	1.87	0.88
8:AH:44:VAL:HA	8:AH:49:ILE:CG2	2.03	0.88
14:AO:66:VAL:HB	14:AO:67:ARG:CZ	2.03	0.88
14:AO:67:ARG:HE	14:AO:67:ARG:N	1.72	0.88
14:AO:65:ASP:HB2	14:AO:67:ARG:NH2	1.87	0.88
2:AA:518:G:H1'	18:AS:77:ASP:OD1	1.73	0.88
20:AU:64:ASN:O	20:AU:72:ILE:HG23	1.72	0.88
36:B1:52:A:H2'	36:B1:53:G:H8	1.38	0.88
34:BA:1405:G:N2	34:BA:1517:G:H22	1.72	0.88
34:BA:138:G:H1	34:BA:225:C:H42	0.90	0.88
34:BA:321:A:H62	34:BA:328:C:H1'	1.37	0.88
34:BA:671:G:H2'	34:BA:672:U:H6	1.33	0.88
34:BA:668:G:N2	34:BA:738:C:N3	2.22	0.88
34:BA:829:G:H4'	37:BE:26:PRO:HG2	1.55	0.88
38:BF:84:ILE:HG13	38:BF:101:LEU:CD2	2.03	0.88
34:BA:692:U:H5	46:BN:26:ASN:ND2	1.72	0.88
49:BQ:23:ARG:H	49:BQ:33:VAL:HG21	1.39	0.88
51:BS:39:TYR:HB2	51:BS:49:LEU:HD13	1.56	0.88
54:BV:44:MET:HA	54:BV:47:HIS:CD2	2.08	0.88
35:BB:37:G:N7	35:BB:37:G:OP2	2.07	0.88
27:A3:80:SER:C	27:A3:81:ILE:HD12	1.94	0.88
2:AA:1264:G:C3'	2:AA:1265:A:H5''	2.04	0.88
2:AA:1529:A:H62	2:AA:1542:G:H22	1.19	0.88
2:AA:343:C:N3	2:AA:344:G:N1	2.20	0.88
2:AA:388:G:OP2	28:A4:23:GLU:HB3	1.74	0.88
2:AA:621:A:C2'	2:AA:622:G:H5'	2.03	0.88
2:AA:647:G:H4'	2:AA:2352:A:OP1	1.73	0.88
2:AA:880:G:H1	2:AA:897:C:H42	0.89	0.88
2:AA:971:C:O2	2:AA:972:G:C1'	2.22	0.88
4:AD:222:PRO:O	4:AD:224:VAL:N	2.07	0.88
12:AM:84:ARG:CB	12:AM:98:PHE:HE2	1.87	0.88
13:AN:21:VAL:HG22	13:AN:39:VAL:HG11	1.54	0.88
14:AO:92:ASP:OD1	14:AO:94:ARG:HG3	1.73	0.88
15:AP:11:LYS:HD2	15:AP:91:HIS:CD2	2.07	0.88
21:AV:148:THR:CA	21:AV:168:VAL:HB	2.03	0.88
34:BA:124:G:H2'	34:BA:125:U:O4'	1.73	0.88
34:BA:1500:A:H5''	34:BA:1508:G:H5''	1.54	0.88
34:BA:695:A:H2'	34:BA:696:A:O4'	1.73	0.88
34:BA:81:U:H2'	34:BA:83:U:OP2	1.73	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:115:LEU:HD13	37:BE:145:LEU:HB3	1.55	0.88
48:BP:10:PRO:CG	48:BP:18:ALA:HB1	2.03	0.88
48:BP:81:LEU:H	48:BP:81:LEU:HD13	1.37	0.88
24:A0:96:ARG:HH21	24:A0:117:VAL:CG2	1.82	0.88
26:A2:50:ASP:H	26:A2:53:LYS:CD	1.85	0.88
2:AA:1055:G:N2	9:AI:29:PHE:CE1	2.41	0.88
2:AA:1995:U:H6	2:AA:1995:U:H5''	1.39	0.88
2:AA:2405:G:H2'	2:AA:2411:A:H61	1.39	0.88
2:AA:2582:G:C2'	2:AA:2583:G:H5'	2.04	0.88
2:AA:270:A:N1	2:AA:370:G:H1'	1.89	0.88
2:AA:337:C:H3'	2:AA:338:G:H5''	1.55	0.88
2:AA:624:C:O2	2:AA:657:U:H5''	1.74	0.88
5:AE:214:VAL:CG1	5:AE:221:LYS:HZ2	1.87	0.88
6:AF:225:PRO:HB2	6:AF:231:ARG:HE	1.39	0.88
7:AG:19:GLU:CB	7:AG:135:VAL:HG21	2.03	0.88
10:AK:2:LYS:CD	10:AK:39:ALA:HB2	2.04	0.88
17:AR:9:CYS:O	17:AR:11:THR:O	1.92	0.88
23:AX:9:VAL:CG2	23:AX:54:VAL:HA	2.02	0.88
34:BA:1064:G:N2	34:BA:1192:C:N3	2.22	0.88
34:BA:1409:C:O2'	34:BA:1410:G:H5'	1.73	0.88
34:BA:792:A:C2'	34:BA:794:A:H62	1.87	0.88
35:BB:33:U:N1	35:BB:35:A:OP2	2.07	0.88
35:BB:51:G:H1	35:BB:63:C:H42	1.19	0.88
38:BF:182:ILE:HG12	38:BF:203:PHE:HD1	1.37	0.88
39:BG:25:ARG:C	39:BG:27:TYR:H	1.77	0.88
41:BI:23:LYS:HE3	41:BI:61:LEU:CD1	2.03	0.88
43:BK:44:PHE:CE2	43:BK:109:ILE:HD13	2.09	0.88
43:BK:63:LEU:CD1	43:BK:63:LEU:H	1.68	0.88
50:BR:74:ASP:CG	50:BR:76:GLU:HB3	1.93	0.88
51:BS:57:ARG:HA	51:BS:60:LEU:HD12	1.53	0.88
54:BV:15:LEU:HD23	54:BV:15:LEU:H	1.39	0.88
34:BA:1316:G:O6	54:BV:6:LYS:HE2	1.73	0.88
10:AK:77:VAL:HG23	10:AK:141:LEU:HD21	1.54	0.88
40:BH:28:PHE:N	40:BH:28:PHE:CD1	2.37	0.88
12:AM:8:ALA:O	12:AM:11:ILE:HG13	1.74	0.88
30:A6:42:PRO:CG	30:A6:44:ALA:HB3	2.04	0.87
33:A9:20:HIS:O	33:A9:22:ARG:HG3	1.72	0.87
2:AA:1259:G:H2'	2:AA:1260:G:H8	1.40	0.87
2:AA:137:C:N4	2:AA:142:G:N1	2.22	0.87
2:AA:1792:G:N2	2:AA:1827:C:N3	2.21	0.87
2:AA:2275:C:O2	15:AP:103:ALA:HB2	1.74	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2343:C:O2	2:AA:2344:U:H6	1.57	0.87
2:AA:2389:G:H5''	2:AA:2390:U:O5'	1.75	0.87
2:AA:2489:G:H2'	2:AA:2490:G:C8	2.07	0.87
2:AA:2626:C:H2'	2:AA:2627:G:H8	1.39	0.87
2:AA:477:A:H2'	2:AA:478:A:C8	2.08	0.87
2:AA:751:A:O4'	18:AS:90:ARG:NH2	2.07	0.87
2:AA:964:C:O5'	2:AA:964:C:H6	1.57	0.87
1:AB:56:G:O2'	1:AB:57:A:OP2	1.91	0.87
1:AB:74:U:H2'	1:AB:75:G:C8	2.09	0.87
6:AF:11:ASN:HD21	6:AF:160:LEU:HD21	1.35	0.87
1:AB:57:A:C2	7:AG:17:ARG:NH1	2.42	0.87
2:AA:2251:G:H5''	15:AP:102:ARG:NH2	1.88	0.87
15:AP:46:VAL:HG22	15:AP:156:ASN:ND2	1.88	0.87
15:AP:47:GLU:OE2	15:AP:152:SER:HB2	1.74	0.87
21:AV:103:ARG:HD3	21:AV:103:ARG:N	1.87	0.87
34:BA:3(A):G:H2'	34:BA:1004:A:H4'	1.54	0.87
34:BA:1454:G:H2'	34:BA:1455:G:H8	1.39	0.87
46:BN:99:GLN:HG2	46:BN:105:VAL:CG1	2.03	0.87
10:AK:72:LEU:HD11	10:AK:108:LEU:HD13	1.55	0.87
2:AA:1510:A:H5'	2:AA:1511:A:OP2	1.73	0.87
2:AA:104:U:H2'	2:AA:105:C:O4'	1.73	0.87
2:AA:1453:A:C6	2:AA:1454:U:H1'	2.08	0.87
2:AA:1655:A:H2'	2:AA:1656:C:C6	2.09	0.87
2:AA:1655:A:H4'	5:AE:211:GLN:HA	1.56	0.87
2:AA:1690:A:N6	2:AA:1697:G:N2	2.22	0.87
2:AA:179:G:H3'	2:AA:180:G:C8	2.09	0.87
2:AA:1266:G:H2'	2:AA:2012:G:O6	1.73	0.87
2:AA:2024:G:H2'	2:AA:2025:C:O4'	1.72	0.87
2:AA:2286:A:H3'	2:AA:2286:A:H8	1.35	0.87
2:AA:2416:C:OP1	14:AO:51:PHE:CE2	2.27	0.87
2:AA:244:A:H1'	2:AA:255:A:N6	1.89	0.87
2:AA:2677:G:O2'	2:AA:2678:C:H5'	1.74	0.87
2:AA:2879:C:H5'	2:AA:2880:C:OP1	1.74	0.87
2:AA:610:C:H2'	2:AA:611:C:C6	2.10	0.87
3:AC:104:LEU:CD1	3:AC:130:ILE:HD11	2.01	0.87
8:AH:49:ILE:N	8:AH:49:ILE:HD12	1.90	0.87
9:AJ:78:ARG:HG2	9:AJ:88:ALA:CB	2.04	0.87
10:AK:21:VAL:HB	10:AK:26:ALA:HB2	1.56	0.87
13:AN:88:ARG:CZ	13:AN:94:ARG:HD3	2.05	0.87
37:BE:91:PRO:HG3	37:BE:155:LEU:N	1.88	0.87
46:BN:12:ARG:NH1	46:BN:40:ILE:HA	1.89	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BS:20:VAL:CG1	51:BS:32:TYR:HB2	2.03	0.87
10:AK:110:LEU:HD23	10:AK:111:ASP:N	1.89	0.87
35:BB:9:A:O2'	35:BB:45:G:O2'	1.92	0.87
23:AX:3:ARG:CB	23:AX:60:GLU:HA	2.03	0.87
26:A2:55:THR:O	26:A2:56:VAL:HG23	1.75	0.87
28:A4:15:ILE:HG13	28:A4:36:TRP:CE3	2.09	0.87
2:AA:1023:U:H2'	2:AA:1024:G:H5'	1.55	0.87
2:AA:1137:G:OP1	12:AM:60:ARG:NH2	2.06	0.87
2:AA:584:C:H42	2:AA:1256:G:H1	0.94	0.87
2:AA:1291:C:O2'	2:AA:1292:U:H5'	1.74	0.87
2:AA:1400:G:H2'	2:AA:1401:G:C8	2.08	0.87
2:AA:530:G:O6	2:AA:2022:U:P	2.33	0.87
2:AA:2359:C:H4'	32:A8:52:LYS:HZ1	1.34	0.87
2:AA:2450:A:C2'	2:AA:2451:A:H5'	2.04	0.87
2:AA:2692:C:H42	2:AA:2717:G:H1	1.21	0.87
2:AA:273(D):C:C2	2:AA:363(B):G:N2	2.42	0.87
2:AA:365:C:N3	2:AA:366:C:H5	1.70	0.87
2:AA:452:G:H3'	2:AA:453:C:H5''	1.57	0.87
2:AA:5:A:O2'	12:AM:4:ALA:HB3	1.73	0.87
2:AA:627:A:H2'	2:AA:628:G:O4'	1.75	0.87
2:AA:976:C:H5'	2:AA:1156:A:N6	1.88	0.87
3:AC:75:LEU:HD12	3:AC:93:TYR:O	1.74	0.87
5:AE:292:PRO:O	5:AE:293:TYR:CD2	2.27	0.87
2:AA:1084:A:P	9:AI:40:ALA:H	1.96	0.87
15:AP:120:HIS:CE1	21:AV:76:ARG:HH12	1.91	0.87
15:AP:85:ILE:HG22	15:AP:122:PHE:CB	2.04	0.87
21:AV:3:LEU:HD22	21:AV:34:LEU:HB2	1.56	0.87
34:BA:1532:U:H3'	34:BA:1532:U:H6	1.38	0.87
34:BA:983:A:H3'	34:BA:983:A:N3	1.89	0.87
38:BF:180:ALA:HB1	38:BF:203:PHE:HE1	1.38	0.87
44:BL:11:LYS:HD2	44:BL:108:VAL:HG11	1.55	0.87
48:BP:80:ARG:HG2	48:BP:81:LEU:N	1.89	0.87
51:BS:20:VAL:HG21	51:BS:32:TYR:CD2	2.08	0.87
34:BA:1320:C:H1'	54:BV:73:GLU:HG2	1.56	0.87
10:AK:114:LYS:CE	10:AK:133:LEU:HA	2.03	0.87
35:BB:22:G:C2'	35:BB:23:A:H8	1.87	0.87
35:BB:1:G:C5	35:BB:73:A:N1	2.42	0.87
24:A0:45:ARG:HD3	24:A0:97:VAL:CG2	2.03	0.87
25:A1:58:ARG:O	25:A1:62:ILE:HG12	1.75	0.87
2:AA:1263:U:C5	2:AA:1264:G:N1	2.42	0.87
2:AA:1731:G:H2'	2:AA:1731:G:N3	1.88	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2737:G:H1	2:AA:2767:C:H42	1.16	0.87
2:AA:411:G:OP2	2:AA:2407:G:P	2.32	0.87
2:AA:445:C:H3'	25:A1:3:ARG:HH21	1.38	0.87
2:AA:529:A:C2'	2:AA:530:G:H8	1.88	0.87
2:AA:861:A:H62	2:AA:916:G:H21	0.90	0.87
2:AA:997:G:O2'	2:AA:998:C:H5'	1.73	0.87
4:AD:129:LEU:HD23	4:AD:130:PRO:HD2	1.54	0.87
4:AD:213:LYS:CB	4:AD:215:LYS:HB2	2.05	0.87
8:AH:9:GLU:CA	8:AH:48:VAL:HG12	2.00	0.87
9:AJ:35:ALA:O	9:AJ:39:VAL:HB	1.72	0.87
16:AQ:24:LEU:HA	16:AQ:33:ARG:HH22	1.37	0.87
34:BA:1002:G:H2'	34:BA:1003:G:O4'	1.74	0.87
34:BA:1245:A:H2'	34:BA:1246:C:C6	2.08	0.87
34:BA:1424:C:N4	34:BA:1476:G:H1	1.70	0.87
34:BA:284:G:H2'	34:BA:285:G:H8	1.39	0.87
34:BA:298:A:H3'	34:BA:299:G:H8	1.40	0.87
34:BA:375:U:H4'	51:BS:17:TYR:CE2	2.10	0.87
35:BC:34:G:H3'	35:BC:35:A:H5''	1.54	0.87
37:BE:119:GLU:OE1	37:BE:142:LEU:HD11	1.74	0.87
39:BG:161:ASN:O	39:BG:165:MET:HB2	1.75	0.87
46:BN:121:PRO:HG2	46:BN:126:ARG:HG2	1.55	0.87
53:BU:53:ARG:HH11	53:BU:59:SER:C	1.78	0.87
53:BU:54:ARG:O	53:BU:54:ARG:HG3	1.74	0.87
21:AV:26:LYS:HD2	21:AV:27:GLU:OE2	1.74	0.87
32:A8:12:ARG:NH1	32:A8:13:ARG:NH1	2.22	0.87
2:AA:1223:C:C4	2:AA:1227:A:N1	2.42	0.87
2:AA:1322:A:H2'	2:AA:1323:U:H5'	1.57	0.87
2:AA:1790:C:H5''	2:AA:1828:G:H1	1.37	0.87
2:AA:1993:U:C2'	2:AA:1994:C:H5'	2.03	0.87
2:AA:2584:U:C3'	2:AA:2584:U:C6	2.50	0.87
2:AA:2718:G:H2'	2:AA:2719:G:C8	2.09	0.87
2:AA:2770:G:O2'	5:AE:316:ARG:CZ	2.23	0.87
2:AA:446:G:OP2	25:A1:3:ARG:CZ	2.23	0.87
1:AB:57:A:H2	7:AG:17:ARG:NH1	1.71	0.87
3:AC:5:LYS:NZ	3:AC:8:ARG:HB3	1.88	0.87
4:AD:83:ASP:H	4:AD:89:ASN:HA	1.37	0.87
5:AE:180:ILE:HG23	5:AE:183:ASP:OD2	1.74	0.87
6:AF:162:VAL:HG12	6:AF:164:ALA:H	1.38	0.87
8:AH:120:LEU:HD13	8:AH:143:LEU:HD13	1.57	0.87
11:AL:104:GLN:O	11:AL:107:GLU:HG3	1.75	0.87
12:AM:87:LEU:HB3	12:AM:88:PRO:CD	2.04	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AU:21:LYS:HZ1	20:AU:22:GLN:HE21	0.88	0.87
21:AV:91:PRO:HB2	21:AV:127:PRO:HA	1.56	0.87
21:AV:21:ALA:CB	21:AV:34:LEU:HD11	2.05	0.87
22:AW:20:LEU:HD21	22:AW:53:ILE:CG2	2.03	0.87
34:BA:1156:G:H1'	34:BA:1179:A:H61	1.39	0.87
34:BA:600:C:H5'	43:BK:129:VAL:HA	1.56	0.87
46:BN:85:ARG:HE	46:BN:111:ASP:CG	1.78	0.87
53:BU:70:ILE:O	53:BU:73:ALA:HB3	1.74	0.87
55:BW:45:GLN:HA	55:BW:91:LEU:CD2	2.05	0.87
25:A1:61:TRP:CZ3	25:A1:94:VAL:N	2.42	0.87
27:A3:37:LEU:HD12	27:A3:68:VAL:O	1.75	0.87
2:AA:1309:G:H2'	2:AA:1310:G:C5'	2.05	0.87
2:AA:1332:G:C4	2:AA:1609:A:N1	2.42	0.87
2:AA:144:C:H2'	2:AA:145:G:H8	1.38	0.87
2:AA:163:U:H2'	2:AA:164:U:C5	2.10	0.87
2:AA:1793:C:N4	2:AA:1825:A:N6	2.23	0.87
2:AA:1851:U:H2'	2:AA:1852:C:C6	2.09	0.87
2:AA:2124:G:H8	2:AA:2124:G:H3'	1.38	0.87
2:AA:216:A:H2'	2:AA:217:G:H8	1.34	0.87
2:AA:2251:G:OP1	15:AP:102:ARG:NE	2.08	0.87
2:AA:2519:U:H3'	2:AA:2519:U:P	2.15	0.87
2:AA:270(H):C:N4	2:AA:270(R):G:N1	2.22	0.87
2:AA:548:A:H5'	2:AA:549:G:C8	2.08	0.87
2:AA:565:C:HO2'	2:AA:1253:A:H2	0.88	0.87
1:AB:82:G:H2'	1:AB:83:G:H8	1.37	0.87
10:AK:4:ILE:O	10:AK:36:ALA:CB	2.21	0.87
34:BA:363:A:O2'	34:BA:364:A:H5'	1.73	0.87
34:BA:518:C:N4	35:BB:34:G:H21	1.71	0.87
34:BA:597:G:O2'	34:BA:598:U:H5'	1.74	0.87
34:BA:891:U:H2'	34:BA:892:A:H8	1.39	0.87
37:BE:55:PHE:CA	37:BE:58:ILE:HD12	2.02	0.87
40:BH:149:GLU:HA	40:BH:152:ARG:HB2	1.56	0.87
40:BH:47:LYS:H	40:BH:47:LYS:HD2	1.39	0.87
46:BN:32:ILE:HB	46:BN:40:ILE:CB	2.01	0.87
54:BV:40:ILE:HA	54:BV:44:MET:SD	2.13	0.87
42:BJ:86:GLN:HG3	42:BJ:148:ASN:ND2	1.89	0.87
32:A8:30:ARG:HB3	32:A8:44:LYS:NZ	1.88	0.87
2:AA:1264:G:O6	2:AA:1265:A:N6	2.07	0.87
2:AA:1406:U:O2'	2:AA:1407:C:O5'	1.91	0.87
2:AA:1456:G:H1	2:AA:2703:C:N4	1.69	0.87
2:AA:1468:C:N3	2:AA:1524:G:N2	2.21	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2053:G:O2'	2:AA:2054:A:H5'	1.75	0.87
2:AA:23:G:N2	2:AA:24:G:H1'	1.90	0.87
2:AA:606:U:OP1	6:AF:104:ASP:HB2	1.75	0.87
2:AA:667:U:H2'	2:AA:668:G:O4'	1.75	0.87
1:AB:17:C:OP1	7:AG:147:ALA:HA	1.73	0.87
5:AE:211:GLN:CD	5:AE:215:LYS:HG3	1.95	0.87
7:AG:49:PRO:HB3	7:AG:72:LYS:O	1.73	0.87
9:AI:77:VAL:HG22	9:AI:102:ILE:HD11	1.55	0.87
9:AJ:77:VAL:HG22	9:AJ:102:ILE:HD11	1.55	0.87
12:AM:45:VAL:HG13	12:AM:131:THR:N	1.89	0.87
14:AO:116:HIS:CD2	14:AO:118:LEU:HD21	2.10	0.87
15:AP:82:LYS:O	15:AP:124:ALA:HA	1.75	0.87
19:AT:17:ASP:HB2	19:AT:18:MET:SD	2.15	0.87
19:AT:6:LYS:CB	19:AT:27:ALA:O	2.21	0.87
22:AW:45:ARG:HE	22:AW:49:LEU:CD1	1.87	0.87
36:B1:49:A:H2'	36:B1:50:G:O4'	1.73	0.87
34:BA:1229:A:H2'	34:BA:1230:C:C6	2.10	0.87
37:BE:187:LEU:HA	37:BE:201:ILE:HB	1.54	0.87
34:BA:429:U:C2'	39:BG:22:LYS:HZ1	1.88	0.87
43:BK:11:THR:HA	43:BK:14:ARG:CZ	2.03	0.87
43:BK:28:ALA:HB3	43:BK:57:PRO:O	1.75	0.87
43:BK:61:VAL:HG12	43:BK:62:TYR:N	1.90	0.87
43:BK:6:ILE:HD11	43:BK:10:LEU:HD11	1.56	0.87
44:BL:5:TYR:OH	44:BL:16:ARG:HG3	1.75	0.87
52:BT:25:ARG:NH2	52:BT:40:LYS:HD2	1.90	0.87
25:A1:72:HIS:ND1	25:A1:110:VAL:HG21	1.90	0.87
26:A2:74:TYR:OH	26:A2:88:GLN:HA	1.75	0.87
2:AA:1024:G:N2	2:AA:1139:G:C2	2.42	0.87
2:AA:1472:A:H61	2:AA:1518:C:N4	1.72	0.87
2:AA:1580:A:H2'	2:AA:1581:G:N9	1.90	0.87
2:AA:1841:U:H2'	2:AA:1842:G:H8	1.39	0.87
2:AA:2377:A:N3	16:AQ:102:LEU:HD13	1.90	0.87
2:AA:237:C:O2'	2:AA:238:C:H5'	1.74	0.87
2:AA:980:A:N3	2:AA:2037:G:O2'	2.08	0.87
9:AI:78:ARG:HG2	9:AI:88:ALA:CB	2.05	0.87
12:AM:74:ARG:HD2	12:AM:140:GLY:O	1.75	0.87
19:AT:22:ASN:HA	19:AT:68:LEU:HD11	1.56	0.87
34:BA:1053:G:O6	34:BA:1199:U:H2'	1.74	0.87
34:BA:1117:G:H5'	34:BA:1118:C:OP2	1.74	0.87
34:BA:1216:G:H2'	34:BA:1217:C:C6	2.09	0.87
34:BA:235:C:H2'	34:BA:236:G:H8	1.39	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:300:A:C2'	34:BA:301:G:H5'	2.05	0.87
40:BH:109:ILE:HG22	40:BH:110:LEU:N	1.88	0.87
41:BI:27:GLN:HA	41:BI:30:LEU:HD13	1.55	0.87
44:BL:67:GLY:N	44:BL:73:GLN:NE2	2.23	0.87
46:BN:57:THR:HG23	46:BN:60:ALA:H	1.38	0.87
55:BW:43:LEU:HD12	55:BW:55:ILE:HD11	1.55	0.87
25:A1:34:ASN:O	25:A1:38:THR:HG23	1.75	0.87
27:A3:18:PRO:HB2	27:A3:36:ILE:HD13	1.56	0.87
2:AA:389:G:OP2	28:A4:24:THR:HG22	1.74	0.87
2:AA:1336:A:H2'	2:AA:1337:G:C8	2.09	0.87
2:AA:2111:C:H3'	2:AA:2117:A:N6	1.90	0.87
2:AA:2226:C:C2	2:AA:2227:A:C1'	2.58	0.87
2:AA:2306:C:O2	7:AG:27:ILE:HA	1.74	0.87
2:AA:2541:A:H2	2:AA:2765:A:N6	1.73	0.87
2:AA:2679:A:O2'	2:AA:2680:C:H5'	1.74	0.87
2:AA:2734:A:H61	5:AE:316:ARG:NH2	1.73	0.87
2:AA:601:C:H2'	2:AA:602:G:H5'	1.54	0.87
2:AA:752:A:H4'	2:AA:753:C:H5'	1.57	0.87
2:AA:835:A:O4'	2:AA:2358:G:H1'	1.75	0.87
3:AC:86:ALA:HB2	3:AC:149:ILE:HD13	1.57	0.87
5:AE:39:GLN:HB2	5:AE:174:LEU:HG	1.57	0.87
6:AF:156:LEU:O	6:AF:159:ALA:HB3	1.74	0.87
22:AW:45:ARG:HH21	22:AW:49:LEU:CD2	1.88	0.87
23:AX:7:LYS:HE3	23:AX:32:GLN:O	1.75	0.87
34:BA:1128:C:N4	34:BA:1143:G:H22	1.71	0.87
34:BA:950:U:H3	34:BA:1231:G:H1	0.88	0.87
34:BA:449:C:N3	34:BA:450:G:H1'	1.90	0.87
34:BA:64:G:H4'	34:BA:65:U:H5''	1.57	0.87
37:BE:39:ILE:HG22	37:BE:41:ILE:HD12	1.57	0.87
42:BJ:22:LEU:HD23	42:BJ:63:LYS:HZ2	1.40	0.87
34:BA:1329:A:H5'	48:BP:29:ARG:NE	1.89	0.87
55:BW:40:ALA:HA	55:BW:55:ILE:HD12	1.57	0.87
36:B1:6:U:H5'	36:B1:7:A:H5'	1.56	0.87
26:A2:61:VAL:HG13	26:A2:96:LEU:C	1.95	0.86
32:A8:16:ILE:HD12	32:A8:16:ILE:H	1.39	0.86
2:AA:1021:A:C2	2:AA:1023:U:H1'	2.09	0.86
2:AA:1021:A:H2'	2:AA:1022:G:OP1	1.75	0.86
2:AA:1054:A:H2'	2:AA:1055:G:C8	2.10	0.86
2:AA:1519:G:C2'	2:AA:1520:U:O4'	2.22	0.86
2:AA:1543:A:H3'	2:AA:1544:C:H6	1.36	0.86
2:AA:2275:C:O2'	2:AA:2276:G:OP2	1.91	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2286:A:H5'	2:AA:2287:A:H5'	1.53	0.86
2:AA:2507:C:H2'	2:AA:2508:G:C8	2.09	0.86
2:AA:270(M):U:H4'	2:AA:270(N):G:C4'	2.05	0.86
2:AA:390:A:H5''	2:AA:391:G:OP1	1.73	0.86
2:AA:467:G:H2'	2:AA:468:G:H5'	1.55	0.86
2:AA:666:G:H2'	2:AA:667:U:C6	2.10	0.86
1:AB:61:G:C2	1:AB:62:C:C4	2.62	0.86
4:AD:118:GLY:O	4:AD:129:LEU:HD11	1.74	0.86
9:AI:35:ALA:O	9:AI:39:VAL:HB	1.73	0.86
12:AM:16:ASP:HA	12:AM:45:VAL:HG23	1.56	0.86
12:AM:38:VAL:O	12:AM:103:VAL:HG13	1.75	0.86
14:AO:94:ARG:HH21	14:AO:118:LEU:HB2	1.38	0.86
15:AP:15:THR:HB	15:AP:20:ILE:CG2	2.04	0.86
20:AU:62:VAL:HA	20:AU:74:VAL:HG22	1.57	0.86
21:AV:40:ASP:OD1	21:AV:40:ASP:N	2.06	0.86
34:BA:1472:U:O2'	34:BA:1473:A:H5'	1.74	0.86
34:BA:399:G:H2'	34:BA:400:C:C6	2.10	0.86
34:BA:610:G:C2'	34:BA:611:A:H5'	2.04	0.86
35:BB:53:G:C6	35:BB:54:U:O4	2.28	0.86
39:BG:153:ARG:HB3	39:BG:181:MET:HE3	1.57	0.86
50:BR:62:GLN:O	50:BR:66:LEU:HD23	1.75	0.86
34:BA:375:U:O3'	51:BS:6:LEU:CD2	2.23	0.86
8:AH:167:LEU:HG	8:AH:169:ARG:NH1	1.90	0.86
32:A8:30:ARG:NH2	32:A8:41:ILE:O	2.09	0.86
33:A9:2:LYS:HD2	33:A9:33:LYS:O	1.73	0.86
2:AA:1350:C:H42	2:AA:1381:G:H1	0.87	0.86
2:AA:1681:G:C4	2:AA:1762:A:N7	2.43	0.86
2:AA:2073:C:H2'	2:AA:2074:U:C6	2.08	0.86
2:AA:2325:G:O2'	2:AA:2326:C:H5'	1.74	0.86
2:AA:342:G:N2	2:AA:344:G:N2	2.23	0.86
3:AC:75:LEU:HD12	3:AC:93:TYR:HB2	1.56	0.86
7:AG:134:LEU:CD1	7:AG:136:ARG:HH21	1.87	0.86
15:AP:45:GLN:HG2	15:AP:125:TRP:HE1	1.38	0.86
2:AA:2378:A:N3	16:AQ:26:LEU:HD21	1.90	0.86
18:AS:88:ARG:HB3	18:AS:91:GLY:C	1.95	0.86
23:AX:9:VAL:HG23	23:AX:54:VAL:CA	2.00	0.86
34:BA:340:U:H2'	34:BA:341:C:H6	1.40	0.86
2:AA:1837:C:OP1	34:BA:784:C:H5''	1.75	0.86
35:BB:60:C:P	35:BB:61:C:C5	2.69	0.86
39:BG:124:GLY:O	39:BG:132:ARG:HD2	1.73	0.86
39:BG:180:GLY:C	39:BG:182:LYS:HG2	1.95	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:667:G:H4'	50:BR:51:HIS:CE1	2.10	0.86
50:BR:39:LEU:CD2	50:BR:56:LEU:HD22	2.04	0.86
51:BS:67:THR:O	51:BS:70:ALA:HB3	1.75	0.86
25:A1:69:ALA:HB3	25:A1:76:TYR:CZ	2.10	0.86
2:AA:1690:A:N3	2:AA:1690:A:H2'	1.88	0.86
2:AA:1949:G:H2'	2:AA:1950:G:C8	2.08	0.86
2:AA:1326:U:O4'	2:AA:2010:G:N2	2.08	0.86
2:AA:2147:G:O2'	2:AA:2148:G:H5'	1.75	0.86
2:AA:2619:C:O3'	5:AE:248:SER:HA	1.75	0.86
2:AA:237:C:N4	2:AA:261:G:C6	2.42	0.86
2:AA:371:A:H2'	2:AA:372:G:N7	1.90	0.86
1:AB:45:A:H1'	7:AG:76:ARG:NH1	1.89	0.86
3:AC:171:ILE:HD13	3:AC:196:LEU:HD13	1.56	0.86
1:AB:57:A:O2'	7:AG:13:MET:SD	2.32	0.86
8:AH:53:ARG:NH1	8:AH:56:ASP:HA	1.91	0.86
2:AA:1084:A:OP1	9:AI:39:VAL:CB	2.23	0.86
2:AA:1005:C:H1'	12:AM:21:ARG:HG3	1.56	0.86
14:AO:124:ASP:HB3	14:AO:130:ARG:NH2	1.90	0.86
18:AS:36:LEU:CD1	18:AS:51:LEU:HD22	2.04	0.86
34:BA:1230:C:C2'	34:BA:1231:G:H5'	2.05	0.86
34:BA:243:A:O2'	34:BA:244:U:OP2	1.93	0.86
34:BA:808:C:H2'	34:BA:809:G:H8	1.40	0.86
37:BE:21:ARG:CD	37:BE:21:ARG:H	1.89	0.86
38:BF:150:LYS:NZ	38:BF:152:ILE:HD11	1.89	0.86
38:BF:64:VAL:O	38:BF:99:VAL:HB	1.75	0.86
46:BN:67:ASP:HA	46:BN:70:LYS:HD2	1.57	0.86
51:BS:3:LYS:HD2	51:BS:24:ALA:CB	2.05	0.86
54:BV:19:VAL:HG21	54:BV:43:GLU:O	1.75	0.86
10:AK:115:ILE:HG22	10:AK:116:GLU:N	1.90	0.86
24:A0:52:ILE:CD1	24:A0:94:TYR:HB3	2.04	0.86
31:A7:41:GLN:O	31:A7:42:LEU:HG	1.75	0.86
2:AA:1268:A:H2'	2:AA:1269:A:H8	1.38	0.86
2:AA:1518:C:H3'	2:AA:1519:G:C4'	2.05	0.86
2:AA:2587:A:C2'	2:AA:2588:G:H5'	2.05	0.86
2:AA:2741:A:H2'	2:AA:2742:C:O4'	1.75	0.86
2:AA:29:U:H2'	2:AA:30:G:C8	2.10	0.86
2:AA:295:G:C2	2:AA:344:G:C4	2.63	0.86
2:AA:629:G:H1'	2:AA:639:U:HO2'	1.32	0.86
2:AA:984:A:H2'	2:AA:985:C:OP1	1.74	0.86
4:AD:92:LEU:HD11	4:AD:102:TYR:CE2	2.09	0.86
4:AD:167:GLU:O	4:AD:170:TYR:O	1.93	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:173:VAL:HB	4:AD:175:LEU:HD23	1.56	0.86
4:AD:167:GLU:HG2	4:AD:182:MET:CE	2.05	0.86
6:AF:82:GLN:N	6:AF:87:ARG:HH11	1.73	0.86
6:AF:83:ALA:O	6:AF:84:VAL:HG22	1.75	0.86
8:AH:73:ASN:HB3	8:AH:137:LYS:HZ1	1.39	0.86
10:AK:6:LEU:HB3	10:AK:35:LEU:C	1.94	0.86
11:AL:39:CYS:O	11:AL:42:PHE:HB2	1.74	0.86
13:AN:11:ALA:C	13:AN:99:PHE:HB2	1.94	0.86
14:AO:67:ARG:NE	14:AO:67:ARG:H	1.73	0.86
2:AA:871:U:C4'	15:AP:90:PHE:HE2	1.88	0.86
16:AQ:111:PRO:HA	16:AQ:116:PHE:HD1	1.40	0.86
2:AA:2378:A:O2'	16:AQ:30:GLY:HA3	1.76	0.86
34:BA:922:G:H1'	34:BA:1398:A:H2	1.39	0.86
34:BA:462:G:H21	51:BS:82:GLN:HE21	1.23	0.86
38:BF:138:VAL:HG12	38:BF:170:GLN:NE2	1.90	0.86
42:BJ:136:LYS:HZ1	42:BJ:137:LYS:HG3	1.38	0.86
42:BJ:75:VAL:HG13	42:BJ:87:VAL:O	1.76	0.86
44:BL:113:LYS:NZ	44:BL:119:ALA:HB1	1.90	0.86
48:BP:90:LEU:O	48:BP:93:ARG:HB3	1.73	0.86
28:A4:14:ILE:HG13	28:A4:39:VAL:HB	1.58	0.86
2:AA:1393:A:H61	19:AT:13:LYS:HZ2	1.23	0.86
2:AA:1530:G:H1'	2:AA:1542:G:C6	2.09	0.86
2:AA:1615:C:N4	2:AA:1617:C:C2	2.43	0.86
2:AA:1835:G:H1	2:AA:1905:C:N4	1.73	0.86
2:AA:1964:G:H4'	2:AA:1965:C:OP2	1.73	0.86
2:AA:2264:C:H42	2:AA:2276:G:H1	0.89	0.86
2:AA:2384:G:O2'	2:AA:2385:C:OP1	1.93	0.86
2:AA:2416:C:H2'	2:AA:2417:C:H5'	1.55	0.86
2:AA:616:A:H2'	2:AA:617:G:N3	1.89	0.86
2:AA:681:G:H1	2:AA:796:C:H42	1.22	0.86
1:AB:43:C:H42	1:AB:45:A:N6	1.73	0.86
1:AB:56:G:H4'	1:AB:57:A:H5'	1.55	0.86
3:AC:210:ARG:HG2	3:AC:210:ARG:HH11	1.41	0.86
6:AF:149:LYS:HB2	6:AF:152:GLU:HG3	1.56	0.86
8:AH:102:LEU:CG	8:AH:114:ILE:HB	2.06	0.86
8:AH:116:PRO:HA	8:AH:120:LEU:HD12	1.58	0.86
11:AL:55:PRO:HD3	11:AL:73:PRO:CB	2.04	0.86
21:AV:4:THR:O	21:AV:33:ALA:HB1	1.75	0.86
34:BA:1094:G:H2'	34:BA:1108:G:H22	1.41	0.86
34:BA:32:A:H2'	34:BA:33:A:O4'	1.76	0.86
37:BE:55:PHE:O	37:BE:58:ILE:HB	1.74	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BF:178:LEU:O	38:BF:179:ARG:HB3	1.73	0.86
38:BF:187:ALA:HB3	38:BF:198:VAL:CG2	2.05	0.86
40:BH:84:PHE:HB2	40:BH:134:ALA:HB2	1.55	0.86
46:BN:62:GLN:CD	46:BN:63:LEU:N	2.29	0.86
48:BP:66:LEU:O	48:BP:70:LEU:HB2	1.76	0.86
2:AA:2331:G:O3'	27:A3:70:ILE:HB	1.75	0.86
29:A5:15:LYS:NZ	29:A5:15:LYS:CB	2.36	0.86
2:AA:1471:A:N6	2:AA:1519:G:N2	2.22	0.86
2:AA:1475:G:H1	2:AA:1477:A:N6	1.73	0.86
2:AA:1520:U:C3'	2:AA:1521:G:H5''	2.03	0.86
2:AA:1952:A:C4	2:AA:1953:A:C2	2.63	0.86
2:AA:2000:G:H2'	2:AA:2001:A:H8	1.35	0.86
2:AA:530:G:N1	2:AA:2021:C:C3'	2.38	0.86
2:AA:2453:A:H4'	2:AA:2572:A:O2'	1.75	0.86
2:AA:30:G:H2'	2:AA:31:C:H6	1.40	0.86
2:AA:783:A:C2	2:AA:785:G:C1'	2.56	0.86
4:AD:104:ILE:C	4:AD:106:PRO:HD2	1.95	0.86
1:AB:57:A:H2	7:AG:17:ARG:HH11	1.19	0.86
8:AH:148:ARG:CZ	8:AH:163:TYR:CA	2.53	0.86
10:AK:7:LYS:HG3	10:AK:12:LYS:HZ2	1.38	0.86
14:AO:126:SER:OG	14:AO:129:ALA:HB2	1.74	0.86
15:AP:142:LYS:HE3	15:AP:143:VAL:N	1.91	0.86
18:AS:5:ALA:CB	18:AS:54:ALA:HB2	2.03	0.86
21:AV:14:LEU:CD2	21:AV:79:ILE:HG21	2.05	0.86
34:BA:966:G:N2	35:BC:34:G:H5'	1.91	0.86
37:BE:59:GLU:HB3	37:BE:221:LEU:HD21	0.91	0.86
39:BG:155:LEU:H	39:BG:158:ILE:HG13	1.41	0.86
39:BG:18:LYS:HG3	39:BG:33:MET:SD	2.14	0.86
34:BA:1329:A:H5''	48:BP:29:ARG:HG3	1.55	0.86
55:BW:83:ARG:HA	55:BW:86:ARG:HD2	1.55	0.86
7:AG:90:LEU:HD13	48:BP:3:ARG:NH1	1.90	0.86
25:A1:21:ALA:HB1	25:A1:24:PHE:HZ	1.40	0.86
28:A4:17:GLN:HG2	28:A4:33:VAL:C	1.96	0.86
32:A8:5:LYS:O	32:A8:7:HIS:ND1	2.08	0.86
2:AA:1166:C:H2'	2:AA:1167:U:H6	1.38	0.86
2:AA:1668:A:H61	2:AA:1676:A:H61	0.87	0.86
2:AA:1795:C:N3	2:AA:1824:G:N2	2.24	0.86
2:AA:1829:A:N6	2:AA:1976:U:O2	2.08	0.86
2:AA:1863:G:H2'	2:AA:1864:U:C6	2.10	0.86
2:AA:1918:A:OP2	2:AA:1918:A:H3'	1.75	0.86
2:AA:1989:G:O2'	2:AA:1990:C:H5'	1.75	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2123:G:N1	2:AA:2175:C:C2	2.44	0.86
2:AA:2602:A:N1	35:BB:76:A:N7	2.23	0.86
2:AA:2855:C:H42	2:AA:2862:G:H1	1.23	0.86
2:AA:353:G:H2'	2:AA:354:G:O5'	1.76	0.86
2:AA:873:G:H2'	2:AA:874:G:O4'	1.76	0.86
2:AA:95:G:H5'	22:AW:41:GLU:OE2	1.75	0.86
3:AC:205:LYS:HG2	3:AC:206:GLY:N	1.89	0.86
4:AD:174:ARG:HH11	4:AD:174:ARG:HG2	1.39	0.86
5:AE:201:VAL:O	5:AE:266:LYS:NZ	2.08	0.86
5:AE:233:ARG:O	5:AE:234:ARG:HG3	1.75	0.86
5:AE:44:TYR:HA	5:AE:309:PRO:CG	2.05	0.86
5:AE:80:ALA:HB1	5:AE:181:VAL:HG13	1.56	0.86
2:AA:600:G:C5'	6:AF:30:LEU:HD11	2.05	0.86
10:AK:31:PHE:CE1	10:AK:36:ALA:HB3	2.09	0.86
2:AA:142(A):A:C4'	12:AM:21:ARG:HH21	1.89	0.86
14:AO:69:ILE:O	14:AO:73:VAL:CB	2.22	0.86
18:AS:82:LEU:HD23	18:AS:98:LYS:CB	2.05	0.86
34:BA:410:G:H1'	34:BA:432:A:H61	1.41	0.86
34:BA:888:G:N2	34:BA:909:A:N6	2.22	0.86
35:BB:33:U:C6	35:BB:35:A:OP2	2.28	0.86
39:BG:43:HIS:ND1	39:BG:46:LYS:HE3	1.91	0.86
40:BH:109:ILE:HG22	40:BH:110:LEU:H	1.39	0.86
42:BJ:113:GLU:CG	42:BJ:118:VAL:HB	2.06	0.86
43:BK:120:THR:H	43:BK:123:GLU:CD	1.78	0.86
53:BU:70:ILE:HG22	53:BU:74:ARG:NE	1.91	0.86
54:BV:36:ARG:HE	54:BV:72:GLY:HA2	1.41	0.86
35:BB:41:U:C2	35:BB:42:G:C8	2.62	0.86
4:AD:169:LYS:HZ3	4:AD:169:LYS:H	1.19	0.86
25:A1:35:ALA:O	25:A1:38:THR:OG1	1.93	0.86
26:A2:61:VAL:HA	26:A2:98:ILE:HG13	1.56	0.86
28:A4:17:GLN:CA	28:A4:33:VAL:HB	2.06	0.86
2:AA:1084:A:OP1	9:AI:39:VAL:CA	2.23	0.86
2:AA:139:G:C3'	2:AA:141(A):C:H1'	2.05	0.86
2:AA:1434:A:H61	2:AA:1558:A:N6	1.74	0.86
2:AA:145:G:H4'	19:AT:1:SER:HB2	1.56	0.86
2:AA:1442:G:N2	2:AA:1549:C:N3	2.23	0.86
2:AA:2009:G:OP1	18:AS:41:LYS:HE2	1.74	0.86
2:AA:2057:A:C4'	29:A5:8:LYS:HZ1	1.89	0.86
2:AA:2097:C:C2'	2:AA:2098:U:H5'	2.04	0.86
2:AA:2675:A:O2'	2:AA:2676:C:H5'	1.76	0.86
2:AA:296:C:O2'	2:AA:297:C:H5'	1.74	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:326:G:H1'	20:AU:7:GLN:HE22	1.38	0.86
4:AD:175:LEU:HG	4:AD:180:VAL:HA	1.57	0.86
12:AM:38:VAL:HB	12:AM:103:VAL:HG22	1.58	0.86
14:AO:94:ARG:NH1	14:AO:120:LEU:HB2	1.89	0.86
15:AP:26:LYS:HG3	15:AP:28:ILE:HG13	1.57	0.86
34:BA:1021:G:C2	34:BA:1022:G:H1'	2.11	0.86
34:BA:1327:C:H5''	56:BX:20:LYS:HE2	1.56	0.86
34:BA:166:G:O2'	34:BA:167:G:H5'	1.75	0.86
34:BA:570:G:H5'	34:BA:820:U:C1'	2.03	0.86
34:BA:79:G:H22	34:BA:91:C:H1'	1.41	0.86
34:BA:821:G:H2'	34:BA:822:C:C6	2.11	0.86
34:BA:988:G:N2	34:BA:1016:A:H1'	1.91	0.86
38:BF:13:GLY:O	38:BF:14:ILE:HD13	1.75	0.86
39:BG:140:VAL:HB	39:BG:185:PHE:CD1	2.08	0.86
39:BG:65:ARG:HD2	39:BG:72:GLU:OE2	1.76	0.86
41:BI:49:ALA:CB	53:BU:80:PRO:HD3	2.06	0.86
24:A0:15:SER:HB2	24:A0:16:HIS:CE1	2.11	0.86
24:A0:51:LEU:HD21	24:A0:70:LEU:HD21	1.58	0.86
27:A3:49:GLN:H	27:A3:49:GLN:HE21	0.86	0.86
30:A6:28:ARG:CB	30:A6:28:ARG:HH11	1.88	0.86
30:A6:21:TYR:CZ	30:A6:43:VAL:HG23	2.10	0.86
2:AA:1324:G:O2'	2:AA:1325:G:OP1	1.94	0.86
2:AA:1418:G:OP1	2:AA:1588:C:H4'	1.74	0.86
2:AA:2009:G:O2'	2:AA:2010:G:H5'	1.76	0.86
2:AA:2061:G:O2'	2:AA:2062:A:H5''	1.76	0.86
2:AA:2115:G:H4'	3:AC:126:LYS:CE	2.04	0.86
2:AA:2285:C:H1'	2:AA:2288:A:N7	1.91	0.86
2:AA:2710:C:O2'	2:AA:2711:A:H5'	1.75	0.86
2:AA:2719:G:H8	2:AA:2719:G:O5'	1.58	0.86
2:AA:404:C:H5'	2:AA:406:G:O4'	1.76	0.86
12:AM:54:VAL:HG22	12:AM:135:ILE:HD12	1.56	0.86
12:AM:80:LYS:O	12:AM:83:ILE:CG1	2.24	0.86
21:AV:94:VAL:CG1	21:AV:130:ILE:HG21	2.06	0.86
22:AW:18:ALA:O	22:AW:21:ASP:HB2	1.76	0.86
34:BA:665:A:C2'	34:BA:725:G:N2	2.38	0.86
34:BA:894:G:H2'	34:BA:895:G:H8	1.40	0.86
34:BA:878:G:H5''	43:BK:89:PRO:O	1.75	0.86
45:BM:10:GLY:HA3	45:BM:16:LEU:CD2	2.05	0.86
45:BM:24:VAL:HA	45:BM:34:VAL:HG21	1.57	0.86
48:BP:48:LEU:HD22	48:BP:53:VAL:HG23	1.58	0.86
52:BT:31:LEU:O	52:BT:31:LEU:HD12	1.76	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A1:109:LEU:O	25:A1:113:SER:OG	1.94	0.86
2:AA:1152:C:H5''	25:A1:80:ILE:CG2	2.05	0.86
26:A2:19:VAL:HB	26:A2:21:ARG:HH12	1.40	0.86
2:AA:1043:C:H2'	2:AA:1044:G:H5'	1.56	0.86
2:AA:1140:C:H4'	2:AA:142(A):A:C6	2.10	0.86
2:AA:1301:A:N6	2:AA:1303:G:N3	2.24	0.86
2:AA:1405:U:H2'	2:AA:1406:U:C5	2.10	0.86
2:AA:1475:G:N1	2:AA:1477:A:N6	2.24	0.86
2:AA:1272:A:N7	2:AA:1618:A:H1'	1.89	0.86
2:AA:1364:G:H5''	2:AA:1809:A:N7	1.88	0.86
2:AA:1809:A:O2'	2:AA:1810:A:H5'	1.74	0.86
2:AA:2278:A:O2'	2:AA:2279:G:H5'	1.76	0.86
2:AA:2700:C:C3'	2:AA:2701:C:H5''	2.06	0.86
2:AA:1456:G:H1	2:AA:2703:C:H41	0.86	0.86
2:AA:2727:G:H4'	13:AN:70:ARG:CZ	2.05	0.86
2:AA:357:A:C3'	2:AA:358:U:H5''	2.06	0.86
2:AA:740:U:O2'	2:AA:741:G:P	2.32	0.86
2:AA:774:A:H1'	2:AA:775:G:C8	2.11	0.86
2:AA:2121:G:N2	3:AC:168:THR:HG21	1.91	0.86
4:AD:143:ILE:HD12	4:AD:143:ILE:N	1.90	0.86
4:AD:90:ILE:HG13	4:AD:105:ALA:H	1.41	0.86
6:AF:80:VAL:HG13	6:AF:81:PRO:CD	2.04	0.86
8:AH:106:VAL:HG12	8:AH:106:VAL:O	1.75	0.86
2:AA:1085:A:H4'	9:AI:29:PHE:CD2	2.10	0.86
9:AJ:115:LYS:HE2	9:AJ:127:LEU:HB3	1.58	0.86
10:AK:44:LEU:O	10:AK:47:LEU:HG	1.76	0.86
11:AL:124:ALA:HA	11:AL:127:ILE:CD1	2.05	0.86
13:AN:98:ILE:HG23	13:AN:99:PHE:N	1.89	0.86
15:AP:15:THR:CB	15:AP:20:ILE:HG23	2.06	0.86
16:AQ:35:VAL:HG11	16:AQ:37:ARG:CZ	2.05	0.86
22:AW:43:PRO:HB2	22:AW:46:ILE:H	1.40	0.86
34:BA:1497:G:H2'	34:BA:1498:U:C6	2.11	0.86
35:BB:34:G:N2	35:BB:35:A:H2	1.67	0.86
40:BH:147:ASP:HA	40:BH:150:ARG:HB2	1.58	0.86
42:BJ:104:LEU:H	42:BJ:104:LEU:CD2	1.89	0.86
46:BN:65:ALA:O	46:BN:68:ALA:HB3	1.76	0.86
52:BT:2:PRO:O	52:BT:4:LYS:N	2.09	0.86
23:AX:3:ARG:NE	23:AX:60:GLU:OXT	2.09	0.86
2:AA:1114:G:H21	2:AA:1115:G:H1'	1.38	0.86
9:AI:12:LYS:HD2	9:AJ:82:GLY:HA3	1.56	0.86
28:A4:42:PHE:N	28:A4:57:ASP:OD2	2.09	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:138:G:N3	2:AA:138:G:C3'	2.36	0.85
2:AA:1405:U:H3	2:AA:1597:A:H61	0.89	0.85
2:AA:1472:A:H61	2:AA:1518:C:H41	1.22	0.85
2:AA:1827:C:H2'	2:AA:1827:C:O2	1.72	0.85
2:AA:1936:A:H5'	2:AA:1937:A:N3	1.91	0.85
2:AA:1972:A:H2'	2:AA:1973:G:H8	1.36	0.85
2:AA:2195:C:O2	2:AA:2196:C:H1'	1.76	0.85
2:AA:2321:G:N2	2:AA:2322:A:H1'	1.91	0.85
2:AA:2779:U:O4'	2:AA:2781:A:N7	2.09	0.85
2:AA:349:G:OP2	2:AA:349:G:C8	2.28	0.85
2:AA:857:C:N3	2:AA:920:G:N2	2.22	0.85
2:AA:976:C:H4'	2:AA:1156:A:N6	1.91	0.85
4:AD:140:VAL:HG22	4:AD:191:VAL:HG12	1.54	0.85
7:AG:93:LEU:HD12	7:AG:94:ALA:H	0.74	0.85
8:AH:10:ILE:HG23	8:AH:14:VAL:CG1	2.06	0.85
12:AM:24:SER:HB3	12:AM:86:MET:HE3	1.58	0.85
15:AP:54:VAL:CG1	15:AP:56:ILE:HD13	2.05	0.85
34:BA:1132:C:H42	34:BA:1142:G:H1	1.24	0.85
34:BA:1280:A:O4'	45:BM:41:PRO:HG3	1.76	0.85
34:BA:981:U:H2'	34:BA:982:U:H5	1.38	0.85
38:BF:112:SER:O	38:BF:116:VAL:HG23	1.75	0.85
40:BH:41:VAL:HG21	40:BH:113:ALA:HA	1.58	0.85
41:BI:24:GLU:OE2	41:BI:28:ARG:HD2	1.76	0.85
42:BJ:136:LYS:NZ	42:BJ:137:LYS:HG3	1.92	0.85
34:BA:1347:G:N7	44:BL:107:ARG:CZ	2.39	0.85
34:BA:523:A:H61	47:BO:53:ARG:NH2	1.73	0.85
34:BA:581:G:H4'	50:BR:64:ARG:NH1	1.88	0.85
10:AK:141:LEU:C	10:AK:141:LEU:HD13	1.96	0.85
33:A9:19:ARG:HD2	33:A9:24:LEU:CD1	2.06	0.85
2:AA:1076:C:O2'	11:AL:91:GLU:CB	2.22	0.85
2:AA:1171:G:OP1	2:AA:1171:G:O4'	1.95	0.85
2:AA:119:A:H4'	2:AA:120:U:H5'	1.57	0.85
2:AA:1428:C:O2'	2:AA:1429:G:OP1	1.95	0.85
2:AA:1475:G:N1	2:AA:1477:A:C6	2.43	0.85
2:AA:1668:A:H1'	2:AA:1669:A:C2	2.11	0.85
2:AA:25:U:H3	2:AA:515:A:H61	1.20	0.85
2:AA:2607:G:O2'	2:AA:2608:G:H5'	1.76	0.85
2:AA:482:A:N3	2:AA:482:A:H2'	1.91	0.85
2:AA:844:C:C5	2:AA:845:G:N7	2.44	0.85
2:AA:873:G:H4'	15:AP:32:LYS:HB3	1.56	0.85
1:AB:75:G:O6	1:AB:102:G:N2	2.08	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:103:U:C2'	1:AB:104:A:H5'	2.07	0.85
1:AB:32:C:H2'	1:AB:33:G:C8	2.11	0.85
4:AD:210:LYS:HA	4:AD:213:LYS:HG2	1.56	0.85
5:AE:271:ILE:HG23	5:AE:293:TYR:O	1.76	0.85
11:AL:24:VAL:HG12	11:AL:35:ILE:HG23	1.58	0.85
19:AT:11:THR:HG23	19:AT:14:ALA:CB	2.06	0.85
19:AT:50:GLU:HB2	19:AT:67:ARG:O	1.75	0.85
34:BA:92:C:O2'	34:BA:93:G:H5'	1.76	0.85
35:BB:59:U:P	35:BB:59:U:C5	2.69	0.85
37:BE:42:ILE:HG23	37:BE:43:ASP:N	1.90	0.85
39:BG:12:CYS:HA	39:BG:19:LEU:CB	2.05	0.85
44:BL:3:GLN:H	44:BL:3:GLN:HE21	1.22	0.85
45:BM:25:GLU:HA	45:BM:28:ARG:HD2	1.56	0.85
45:BM:7:LYS:HG3	45:BM:71:LEU:CD2	2.06	0.85
45:BM:23:ILE:HA	45:BM:85:LEU:HD21	1.57	0.85
52:BT:45:HIS:CD2	52:BT:47:PRO:HG3	2.10	0.85
26:A2:49:GLU:HB3	26:A2:53:LYS:CD	2.06	0.85
30:A6:26:LYS:CE	32:A8:35:GLY:HA3	2.06	0.85
2:AA:80:G:N2	2:AA:106:C:N3	2.24	0.85
2:AA:1406:U:H2'	2:AA:1407:C:C6	2.11	0.85
2:AA:1407:C:O2'	2:AA:1408:C:H5'	1.75	0.85
2:AA:1451:C:C6	2:AA:1453:A:H4'	2.11	0.85
2:AA:2465:C:O2	2:AA:2485:G:N1	2.07	0.85
2:AA:2571:C:H5''	2:AA:2572:A:H5'	1.56	0.85
2:AA:35:G:N3	2:AA:454:A:H2	1.74	0.85
2:AA:389:G:O6	14:AO:54:PRO:HB3	1.76	0.85
2:AA:768:G:H2'	2:AA:769:G:C8	2.12	0.85
4:AD:144:GLU:HG2	4:AD:152:GLN:NE2	1.91	0.85
5:AE:174:LEU:O	5:AE:177:ALA:CB	2.24	0.85
5:AE:71:THR:OG1	5:AE:299:SER:HA	1.75	0.85
13:AN:1:MET:HB3	13:AN:67:ARG:NE	1.90	0.85
17:AR:50:GLU:O	17:AR:55:ALA:HB3	1.76	0.85
34:BA:1034:G:H2'	34:BA:1035:A:C8	2.10	0.85
34:BA:1040:U:H2'	34:BA:1041:A:H8	1.39	0.85
34:BA:1403:C:H1'	34:BA:1500:A:C6	2.11	0.85
34:BA:194:C:C2'	34:BA:195:A:H5''	2.06	0.85
34:BA:292:G:N1	34:BA:308:C:N4	1.93	0.85
34:BA:391:G:OP1	51:BS:28:ARG:NH2	2.08	0.85
34:BA:560:U:O2'	34:BA:561:U:OP2	1.93	0.85
34:BA:782:A:N1	34:BA:801:U:H1'	1.90	0.85
37:BE:212:GLN:HG3	37:BE:235:SER:OG	1.76	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BH:76:ILE:HG23	40:BH:77:PRO:HD2	1.58	0.85
46:BN:32:ILE:HG22	46:BN:40:ILE:CD1	1.98	0.85
50:BR:24:SER:O	50:BR:28:GLN:HG2	1.76	0.85
51:BS:7:ALA:HB3	51:BS:18:ARG:HG3	1.57	0.85
25:A1:13:ARG:HD3	25:A1:16:LYS:HZ3	1.38	0.85
26:A2:35:LEU:O	26:A2:60:VAL:HA	1.74	0.85
30:A6:18:THR:C	30:A6:20:PHE:H	1.76	0.85
2:AA:1143:A:C2	2:AA:1144:G:C4	2.64	0.85
2:AA:1592:C:H2'	2:AA:1593:G:C8	2.11	0.85
2:AA:2053:G:H2'	2:AA:2054:A:H8	1.42	0.85
2:AA:2468:G:N2	2:AA:2481:G:H2'	1.91	0.85
2:AA:253:C:H2'	2:AA:254:G:H5'	1.58	0.85
2:AA:741:G:H2'	2:AA:742:G:H8	1.41	0.85
7:AG:96:SER:C	7:AG:98:PHE:H	1.77	0.85
9:AI:10:ILE:HA	9:AI:13:LEU:HD12	1.56	0.85
9:AI:57:THR:HB	9:AJ:107:SER:OG	1.75	0.85
10:AK:29:PHE:CD2	10:AK:30:LEU:HG	2.11	0.85
13:AN:58:VAL:HG12	13:AN:59:LYS:H	1.41	0.85
16:AQ:27:LEU:N	16:AQ:33:ARG:NH1	2.23	0.85
20:AU:19:ARG:O	20:AU:22:GLN:HB2	1.75	0.85
20:AU:46:ASP:O	20:AU:62:VAL:HB	1.77	0.85
23:AX:43:ILE:H	23:AX:43:ILE:HD12	1.37	0.85
34:BA:1073:U:O2	34:BA:1102:A:N1	2.09	0.85
34:BA:1154:G:H2'	34:BA:1155:G:H8	1.39	0.85
34:BA:1276:G:H1'	34:BA:1282:C:O2'	1.75	0.85
34:BA:1452:C:H4'	34:BA:1453:G:C5'	2.05	0.85
34:BA:229:U:H2'	34:BA:230:G:C8	2.10	0.85
38:BF:29:TYR:HE1	45:BM:65:LEU:HD11	1.39	0.85
40:BH:91:LEU:HD23	40:BH:92:LYS:N	1.90	0.85
34:BA:970:C:H42	48:BP:126:LYS:NZ	1.73	0.85
52:BT:67:LYS:HA	52:BT:70:ARG:NH2	1.91	0.85
54:BV:62:ILE:HD12	54:BV:66:MET:HG3	1.56	0.85
10:AK:111:ASP:HB3	10:AK:114:LYS:CG	2.06	0.85
2:AA:1510:A:C8	2:AA:1511:A:C6	2.65	0.85
35:BB:1:G:C5	35:BB:73:A:C2	2.64	0.85
2:AA:431:U:H6	2:AA:431:U:H3'	1.41	0.85
27:A3:35:ASN:HA	27:A3:68:VAL:HG22	1.59	0.85
32:A8:28:GLY:O	32:A8:29:LYS:HG3	1.76	0.85
33:A9:9:LYS:HE3	33:A9:16:VAL:HG23	1.56	0.85
2:AA:135:G:H1'	2:AA:145:G:N2	1.91	0.85
2:AA:2089:U:H2'	2:AA:2090:G:H8	1.40	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2226:C:C2'	2:AA:2227:A:O4'	2.23	0.85
2:AA:231:C:N4	2:AA:232:G:N2	2.23	0.85
2:AA:2792:G:N2	2:AA:2804:C:C2	2.43	0.85
2:AA:307:G:H22	2:AA:310:A:C5'	1.88	0.85
2:AA:612:G:H2'	2:AA:615:G:N3	1.92	0.85
2:AA:668:G:H5'	2:AA:669:G:OP2	1.74	0.85
1:AB:79:C:O2'	2:AA:861:A:N3	2.09	0.85
2:AA:946:G:N2	2:AA:971:C:C2	2.44	0.85
2:AA:959:A:H2'	2:AA:960:A:C8	2.10	0.85
5:AE:226:HIS:HA	5:AE:229:GLN:CG	2.06	0.85
6:AF:35:VAL:C	6:AF:39:GLN:HE22	1.79	0.85
8:AH:58:LYS:HA	8:AH:61:ARG:HD2	1.55	0.85
9:AI:115:LYS:HE2	9:AI:127:LEU:HB3	1.58	0.85
15:AP:20:ILE:CG1	15:AP:21:SER:H	1.85	0.85
15:AP:29:ALA:CB	15:AP:66:ASN:HD21	1.89	0.85
18:AS:28:SER:OG	18:AS:31:GLU:HB3	1.77	0.85
19:AT:9:HIS:ND1	19:AT:63:LYS:HG2	1.91	0.85
34:BA:1209:C:H2'	34:BA:1210:C:H5'	1.59	0.85
34:BA:1347:G:H3'	44:BL:108:VAL:CA	2.05	0.85
34:BA:1428:A:H2'	34:BA:1429:C:H6	1.38	0.85
34:BA:190(E):U:N3	52:BT:72:ARG:NH2	2.22	0.85
34:BA:55:A:O2'	34:BA:56:U:H5'	1.75	0.85
34:BA:824:C:H2'	34:BA:825:G:H8	1.38	0.85
35:BC:16:U:H4'	35:BC:17:U:H5'	1.59	0.85
37:BE:16:HIS:NE2	37:BE:213:LEU:HD13	1.91	0.85
37:BE:25:ASN:ND2	37:BE:27:LYS:HB2	1.92	0.85
38:BF:121:ALA:O	38:BF:124:ILE:HB	1.75	0.85
43:BK:39:LEU:HB3	43:BK:45:ILE:HG21	1.55	0.85
43:BK:6:ILE:CD1	43:BK:85:ARG:HD3	2.06	0.85
55:BW:73:HIS:H	55:BW:76:ALA:HB3	1.39	0.85
35:BB:11:C:N4	35:BB:12:U:O4	2.08	0.85
2:AA:1504:C:H2'	2:AA:1505:C:C6	2.11	0.85
45:BM:22:LYS:HZ1	45:BM:90:LEU:HB2	1.42	0.85
30:A6:11:LYS:HE2	30:A6:26:LYS:HE2	1.59	0.85
2:AA:1338:G:H2'	2:AA:1339:G:H8	1.41	0.85
2:AA:1492:G:N3	2:AA:1493:C:C4	2.44	0.85
2:AA:1468:C:N4	2:AA:1524:G:N1	2.24	0.85
2:AA:1568:G:OP1	4:AD:60:GLN:CA	2.24	0.85
2:AA:1995:U:C5	2:AA:1996:C:C5	2.65	0.85
2:AA:2287:A:N1	2:AA:2289:G:H1'	1.92	0.85
2:AA:2465:C:N3	2:AA:2485:G:O6	2.09	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1128:A:N6	2:AA:2518:A:N1	2.25	0.85
2:AA:2749:A:H1'	8:AH:62:ALA:HB2	1.58	0.85
2:AA:35:G:N3	2:AA:454:A:C2	2.44	0.85
2:AA:270(A):A:H2'	2:AA:370:G:H5''	1.59	0.85
2:AA:882:G:N2	2:AA:894:C:N3	2.24	0.85
5:AE:225:LYS:C	5:AE:226:HIS:ND1	2.29	0.85
11:AL:77:PHE:O	11:AL:80:LYS:HB3	1.75	0.85
20:AU:31:LEU:HB3	20:AU:101:LEU:HD12	1.57	0.85
23:AX:27:GLY:C	23:AX:28:LEU:HG	1.95	0.85
34:BA:1213:A:C2	34:BA:1215:G:H1'	2.11	0.85
34:BA:421:U:C2	38:BF:127:ARG:CZ	2.60	0.85
34:BA:591:U:OP1	43:BK:30:ARG:NH2	2.08	0.85
34:BA:726:C:N3	34:BA:731:G:N2	2.25	0.85
40:BH:59:GLY:C	40:BH:63:ARG:HH21	1.80	0.85
41:BI:75:LEU:CD1	41:BI:79:LEU:HD21	2.07	0.85
43:BK:26:VAL:HG22	43:BK:27:PRO:CD	2.04	0.85
43:BK:29:SER:CB	43:BK:32:LYS:NZ	2.38	0.85
43:BK:46:LYS:HZ1	43:BK:65:TYR:H	1.23	0.85
46:BN:80:VAL:O	46:BN:106:LYS:HB2	1.77	0.85
51:BS:10:GLY:HA3	51:BS:14:ASN:O	1.76	0.85
55:BW:54:LYS:CA	55:BW:57:ARG:HD2	2.07	0.85
2:AA:1:G:H1	2:AA:2902:C:N4	1.73	0.85
2:AA:1353:A:N1	2:AA:1378:A:N1	2.25	0.85
2:AA:1829:A:C2	2:AA:1830:C:C1'	2.59	0.85
2:AA:1930:G:H2'	2:AA:1931:U:OP2	1.76	0.85
2:AA:2023:G:H2'	2:AA:2024:G:H8	1.38	0.85
2:AA:2120:G:OP1	2:AA:2120:G:H8	1.59	0.85
2:AA:2103:C:H42	2:AA:2186:G:H1	0.86	0.85
2:AA:2232:U:O2'	2:AA:2233:U:H5'	1.77	0.85
2:AA:2640:G:O3'	12:AM:70:PHE:HD2	1.59	0.85
2:AA:2648:C:H42	2:AA:2672:G:H1	0.85	0.85
2:AA:347:A:C8	2:AA:347:A:H3'	2.12	0.85
2:AA:566:U:H3'	2:AA:567:A:H8	1.40	0.85
2:AA:720:C:O2'	2:AA:721:C:H5'	1.76	0.85
2:AA:996:A:O3'	25:A1:93:LYS:HG2	1.77	0.85
1:AB:25:A:O2'	1:AB:26:A:H5'	1.74	0.85
1:AB:89:G:H2'	1:AB:89(A):A:C8	2.10	0.85
5:AE:269:ILE:N	5:AE:269:ILE:HD12	1.91	0.85
6:AF:1:MET:H3	6:AF:18:LEU:HD12	1.41	0.85
6:AF:223:LEU:HD21	6:AF:235:PHE:CZ	2.12	0.85
9:AJ:119:GLU:HA	9:AJ:123:ALA:O	1.75	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:35:ILE:HD12	13:AN:35:ILE:N	1.92	0.85
13:AN:64:ARG:HG3	13:AN:79:PHE:HD1	1.40	0.85
16:AQ:23:ARG:HH22	16:AQ:48:VAL:CG2	1.89	0.85
18:AS:10:VAL:HB	18:AS:101:SER:O	1.77	0.85
34:BA:1060:C:C5	38:BF:2:GLY:HA3	2.12	0.85
34:BA:1305:G:H5'	56:BX:4:GLY:HA3	1.58	0.85
34:BA:219:C:H3'	34:BA:219:C:H6	1.41	0.85
34:BA:250:A:H2	34:BA:274:A:N1	1.75	0.85
34:BA:714:G:H1'	34:BA:777:A:C8	2.11	0.85
34:BA:80:G:H3'	34:BA:81:U:H5'	1.58	0.85
34:BA:92:C:H2'	34:BA:93:G:C8	2.10	0.85
34:BA:975:A:O2'	34:BA:976:G:OP2	1.95	0.85
35:BC:15:G:H22	35:BC:48:C:N4	1.73	0.85
35:BC:38:A:H2'	35:BC:39:U:H5'	1.57	0.85
34:BA:1194:U:H4'	40:BH:22:GLY:O	1.77	0.85
42:BJ:94:ARG:HH11	42:BJ:94:ARG:C	1.78	0.85
34:BA:1346:A:H5'	44:BL:120:ARG:HH12	1.41	0.85
45:BM:16:LEU:HD22	45:BM:94:VAL:CG2	2.07	0.85
55:BW:49:ALA:O	55:BW:53:LEU:HG	1.74	0.85
8:AH:29:LYS:HE3	8:AH:81:GLY:N	1.92	0.85
2:AA:1:G:H1	2:AA:2902:C:H42	1.19	0.85
2:AA:443:A:H1'	2:AA:1201:C:O4'	1.75	0.85
2:AA:1500:G:N2	4:AD:97:ASP:OD2	2.10	0.85
2:AA:2285:C:H5	30:A6:28:ARG:NH2	1.72	0.85
2:AA:245:G:O2'	2:AA:246:C:H5'	1.76	0.85
2:AA:2553:G:C2	2:AA:2583:G:O2'	2.29	0.85
2:AA:295:G:N2	2:AA:344:G:H1'	1.92	0.85
2:AA:775:G:H21	2:AA:787:U:C2'	1.86	0.85
2:AA:975:G:N1	2:AA:976:C:C6	2.44	0.85
4:AD:144:GLU:HB3	4:AD:188:ARG:O	1.77	0.85
5:AE:76:PRO:HA	5:AE:292:PRO:CG	2.06	0.85
12:AM:38:VAL:O	12:AM:103:VAL:HA	1.76	0.85
13:AN:26:GLY:HA3	13:AN:30:ARG:CZ	2.06	0.85
14:AO:94:ARG:HH11	14:AO:120:LEU:N	1.74	0.85
15:AP:56:ILE:HD11	15:AP:115:SER:OG	1.76	0.85
2:AA:873:G:H5'	15:AP:32:LYS:N	1.91	0.85
34:BA:1073:U:H3	34:BA:1102:A:H61	1.23	0.85
34:BA:1399:C:N4	34:BA:1502:A:N7	2.24	0.85
34:BA:553:A:H2'	34:BA:554:C:C6	2.12	0.85
35:BB:8:U:H1'	35:BB:48:C:H1'	1.59	0.85
35:BC:52:U:H3	35:BC:62:A:N6	1.74	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BF:10:PHE:CE1	38:BF:178:LEU:HD13	2.11	0.85
43:BK:25:ASP:HB3	43:BK:58:TYR:CE2	2.11	0.85
45:BM:7:LYS:HG3	45:BM:71:LEU:HD21	1.58	0.85
55:BW:62:LEU:HD23	55:BW:62:LEU:N	1.91	0.85
24:A0:77:ARG:CG	24:A0:77:ARG:HH11	1.89	0.85
32:A8:62:LEU:CB	32:A8:63:PRO:HD3	2.07	0.85
2:AA:993:G:H1'	2:AA:1162:G:N2	1.91	0.85
2:AA:1492:G:N2	2:AA:1499:C:H42	1.74	0.85
2:AA:1554:A:N6	2:AA:1626:G:OP2	2.09	0.85
2:AA:1900:A:C2	2:AA:1970:A:C6	2.64	0.85
2:AA:1996:C:H2'	2:AA:1997:G:C5'	2.07	0.85
2:AA:2405:G:H2'	2:AA:2411:A:N6	1.90	0.85
2:AA:326:G:H2'	2:AA:327:G:H8	1.39	0.85
2:AA:295:G:OP1	2:AA:338:G:C2	2.29	0.85
2:AA:663:G:H21	2:AA:940:G:P	2.00	0.85
1:AB:55:U:H2'	1:AB:56:G:C8	2.11	0.85
3:AC:36:LYS:NZ	3:AC:37:PHE:H	1.74	0.85
5:AE:42:ALA:N	5:AE:189:MET:SD	2.50	0.85
6:AF:193:LEU:HB2	6:AF:233:THR:CG2	2.07	0.85
6:AF:28:SER:HA	6:AF:31:ILE:CD1	2.06	0.85
15:AP:28:ILE:HD11	15:AP:89:PRO:CG	2.06	0.85
20:AU:46:ASP:HA	20:AU:102:ASP:CG	1.98	0.85
23:AX:43:ILE:N	23:AX:43:ILE:HD12	1.92	0.85
34:BA:68:G:C5'	34:BA:171:A:H1'	2.06	0.85
34:BA:720:C:C5	34:BA:721:G:H2'	2.12	0.85
34:BA:787:A:N6	34:BA:793:U:OP2	2.09	0.85
35:BB:49:C:N4	35:BB:65:G:H1	1.73	0.85
34:BA:1060:C:C4	38:BF:2:GLY:HA3	2.12	0.85
39:BG:76:ARG:O	39:BG:79:PHE:HB3	1.76	0.85
48:BP:55:ARG:HH21	48:BP:56:LEU:CD2	1.90	0.85
49:BQ:40:CYS:HB2	49:BQ:42:ILE:HB	1.57	0.85
51:BS:20:VAL:HG13	51:BS:34:GLU:O	1.77	0.85
10:AK:81:ALA:CB	10:AK:89:LEU:HD22	2.06	0.85
2:AA:2815:C:H5'	29:A5:29:ASN:ND2	1.92	0.85
2:AA:1128:A:N6	2:AA:2518:A:N6	2.24	0.85
2:AA:1353:A:O2'	2:AA:1354:A:H5'	1.76	0.85
2:AA:138:G:H8	19:AT:42:GLU:OE1	1.60	0.85
2:AA:1301:A:H5'	2:AA:1607:C:N4	1.91	0.85
2:AA:1649:G:C2	2:AA:1650:G:N7	2.45	0.85
2:AA:1670:C:O2'	2:AA:1671:U:H5'	1.77	0.85
2:AA:246:C:N4	2:AA:252:G:N1	2.21	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2626:C:O5'	2:AA:2626:C:H6	1.58	0.85
2:AA:2635:C:H42	2:AA:2783:G:H1	0.86	0.85
2:AA:107:C:H5''	2:AA:293:U:H1'	1.59	0.85
2:AA:869:G:H1	2:AA:908:C:H42	0.88	0.85
2:AA:894:C:H2'	2:AA:895:U:H6	1.42	0.85
2:AA:984:A:H3'	2:AA:985:C:H5	1.39	0.85
3:AC:59:ARG:NH1	3:AC:164:ARG:NH1	2.25	0.85
5:AE:247:ARG:HB3	5:AE:249:THR:HG23	1.58	0.85
5:AE:208:LYS:H	5:AE:257:GLY:HA3	1.40	0.85
8:AH:143:LEU:HD23	8:AH:144:ALA:N	1.89	0.85
8:AH:148:ARG:HH22	8:AH:164:GLU:H	1.21	0.85
8:AH:11:PRO:O	8:AH:14:VAL:HG23	1.75	0.85
11:AL:100:VAL:HG12	11:AL:101:THR:H	1.41	0.85
13:AN:9:LYS:O	13:AN:83:ALA:HB1	1.76	0.85
21:AV:13:LYS:C	21:AV:15:ASP:H	1.79	0.85
21:AV:148:THR:HG22	21:AV:168:VAL:N	1.91	0.85
34:BA:1274:G:H2'	34:BA:1275:A:H8	1.42	0.85
34:BA:1315:U:H3'	34:BA:1316:G:C8	2.12	0.85
34:BA:640:A:H2'	34:BA:641:U:H5'	1.59	0.85
38:BF:58:GLU:HB2	38:BF:65:ALA:CB	2.07	0.85
42:BJ:106:GLN:CA	42:BJ:109:ASN:HD22	1.88	0.85
42:BJ:106:GLN:O	42:BJ:110:GLN:HG2	1.76	0.85
42:BJ:74:GLU:HG2	42:BJ:75:VAL:N	1.90	0.85
43:BK:46:LYS:NZ	43:BK:64:LYS:HA	1.92	0.85
46:BN:92:GLU:HG3	46:BN:96:ARG:CD	2.07	0.85
49:BQ:44:LEU:HG	49:BQ:45:ARG:N	1.89	0.85
46:BN:84:VAL:HG21	53:BU:88:LYS:HZ3	1.35	0.85
54:BV:45:VAL:HG22	54:BV:67:VAL:HG21	1.58	0.85
2:AA:1283:G:N2	2:AA:1285:G:H2'	1.90	0.85
25:A1:89:ASP:OD1	26:A2:52:GLY:N	2.10	0.84
26:A2:35:LEU:N	26:A2:60:VAL:HG13	1.90	0.84
26:A2:6:GLN:CD	26:A2:10:LYS:HA	1.96	0.84
28:A4:17:GLN:HA	28:A4:33:VAL:CB	2.07	0.84
31:A7:21:ARG:NH1	31:A7:43:THR:HG23	1.92	0.84
2:AA:1718:G:N2	2:AA:1742:C:C2	2.45	0.84
2:AA:2059:A:H2	2:AA:2503:A:H62	0.90	0.84
2:AA:2330:G:H22	2:AA:2385:C:N4	1.74	0.84
2:AA:255:A:C2	2:AA:256:A:C4	2.65	0.84
2:AA:684:G:C6	2:AA:775:G:N7	2.44	0.84
6:AF:240:LEU:HA	6:AF:243:VAL:HG23	1.58	0.84
7:AG:21:VAL:HG13	7:AG:132:VAL:CG2	2.06	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:21:ARG:CD	12:AM:21:ARG:H	1.90	0.84
16:AQ:38:LYS:HZ1	16:AQ:114:LYS:HD2	1.41	0.84
2:AA:519:U:C4'	18:AS:75:TYR:HB3	2.07	0.84
20:AU:17:HIS:O	20:AU:20:HIS:HB3	1.76	0.84
34:BA:1040:U:H2'	34:BA:1041:A:C8	2.12	0.84
34:BA:1118:C:OP1	44:BL:104:ARG:CB	2.19	0.84
37:BE:118:LEU:HD22	37:BE:142:LEU:CB	2.06	0.84
40:BH:89:ILE:CG1	40:BH:131:ILE:HD12	2.07	0.84
34:BA:826:C:H4'	43:BK:12:ARG:HG2	1.57	0.84
10:AK:108:LEU:C	10:AK:109:LYS:HE2	1.96	0.84
28:A4:21:VAL:HG12	28:A4:22:MET:N	1.92	0.84
28:A4:11:PRO:HA	28:A4:40:HIS:CD2	2.12	0.84
31:A7:30:ILE:HA	31:A7:33:ARG:CG	2.06	0.84
2:AA:1013:C:H2'	2:AA:1014:U:C6	2.11	0.84
2:AA:120:U:O2'	2:AA:121:G:H5''	1.77	0.84
2:AA:1492:G:N2	2:AA:1498:C:N3	2.24	0.84
2:AA:1786:A:N1	2:AA:1938:A:N1	2.25	0.84
2:AA:1790:C:H5''	2:AA:1828:G:N1	1.92	0.84
2:AA:2055:C:H4'	2:AA:2056:G:H5''	1.58	0.84
2:AA:292:C:N3	2:AA:348:G:O6	2.09	0.84
2:AA:452:G:C3'	2:AA:453:C:H5''	2.07	0.84
2:AA:531:C:N4	25:A1:38:THR:CG2	2.39	0.84
2:AA:695:G:O2'	2:AA:696:G:H5'	1.77	0.84
2:AA:775:G:C2'	2:AA:794:G:N7	2.39	0.84
2:AA:806:C:H2'	2:AA:807:U:H6	1.40	0.84
2:AA:851:U:O2'	23:AX:45:GLY:HA3	1.77	0.84
1:AB:100:G:H2'	1:AB:101:A:H8	1.42	0.84
4:AD:116:MET:O	4:AD:117:SER:OG	1.94	0.84
5:AE:317:PRO:O	5:AE:320:GLN:HG3	1.76	0.84
6:AF:6:TYR:OH	6:AF:234:VAL:HG12	1.77	0.84
15:AP:127:ASN:HB2	15:AP:128:PRO:CD	2.03	0.84
21:AV:69:VAL:HG13	21:AV:81:VAL:HA	1.58	0.84
34:BA:1443:G:H5''	34:BA:1446:A:H5'	1.57	0.84
34:BA:964:A:N3	34:BA:969:A:H1'	1.91	0.84
34:BA:997:U:O4	34:BA:1044:A:N1	2.11	0.84
35:BB:59:U:N3	35:BB:60:C:N3	2.24	0.84
38:BF:138:VAL:HG22	38:BF:151:VAL:CG2	2.06	0.84
39:BG:179:GLU:O	39:BG:181:MET:N	2.10	0.84
43:BK:46:LYS:HB2	43:BK:63:LEU:O	1.76	0.84
34:BA:362:G:P	47:BO:34:ARG:NH2	2.49	0.84
49:BQ:24:CYS:HB3	49:BQ:29:ARG:N	1.92	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BU:38:GLU:O	53:BU:42:ARG:HG3	1.77	0.84
34:BA:1305:G:C5'	56:BX:5:ASP:H	1.90	0.84
24:A0:34:ILE:O	24:A0:113:LEU:HD22	1.77	0.84
25:A1:50:ARG:HH12	26:A2:74:TYR:HB3	1.42	0.84
2:AA:1151:G:C4'	25:A1:81:ASN:HD21	1.89	0.84
2:AA:2364:C:H1'	27:A3:32:LYS:CE	2.06	0.84
28:A4:56:VAL:CG1	28:A4:57:ASP:H	1.91	0.84
18:AS:23:LEU:HD21	29:A5:27:ALA:HB2	1.60	0.84
2:AA:1439:A:C2'	2:AA:1440:G:H5'	2.06	0.84
2:AA:1450:C:N4	2:AA:1461:G:N1	2.12	0.84
2:AA:1912:A:N7	2:AA:1918:A:H2	1.76	0.84
2:AA:270(I):G:N2	2:AA:270(Q):C:N3	2.23	0.84
2:AA:343:C:O2	2:AA:344:G:N3	2.07	0.84
2:AA:880:G:C2'	2:AA:881:G:H5'	2.08	0.84
4:AD:145:LEU:H	4:AD:152:GLN:HB2	1.41	0.84
5:AE:221:LYS:HZ1	5:AE:233:ARG:HG2	1.37	0.84
5:AE:45:LYS:HE3	5:AE:303:PRO:CG	2.08	0.84
5:AE:45:LYS:NZ	5:AE:303:PRO:O	2.11	0.84
8:AH:40:MET:HB2	8:AH:64:HIS:NE2	1.93	0.84
12:AM:19:MET:SD	12:AM:22:VAL:HB	2.16	0.84
21:AV:19:ILE:HG13	21:AV:79:ILE:HG23	1.57	0.84
34:BA:15:G:C2'	34:BA:16:A:H8	1.89	0.84
34:BA:571:U:H3'	34:BA:572:A:C5'	2.06	0.84
34:BA:716:A:O2'	34:BA:717:C:H5'	1.75	0.84
35:BC:69:U:O2'	35:BC:70:C:H5'	1.76	0.84
53:BU:29:PHE:HE1	53:BU:36:ASN:OD1	1.59	0.84
53:BU:74:ARG:HD2	53:BU:74:ARG:H	1.41	0.84
26:A2:78:VAL:CB	26:A2:80:TYR:HD1	1.88	0.84
29:A5:11:THR:CG2	29:A5:19:ARG:HH22	1.90	0.84
30:A6:42:PRO:HD2	30:A6:47:HIS:O	1.77	0.84
2:AA:1026:U:H6	2:AA:1026:U:C5'	1.89	0.84
2:AA:1084:A:P	9:AI:37:VAL:C	2.55	0.84
2:AA:116:C:H2'	2:AA:117:G:H8	1.42	0.84
2:AA:1171:G:H1	2:AA:1179:C:H42	1.21	0.84
2:AA:2553:G:H3'	2:AA:2553:G:H8	1.39	0.84
2:AA:270(C):C:H2'	2:AA:270(D):C:C6	2.13	0.84
2:AA:273(D):C:O2'	2:AA:273(E):U:H5'	1.77	0.84
2:AA:2832:U:O2'	2:AA:2834:G:N3	2.09	0.84
2:AA:656:G:H2'	2:AA:657:U:O4'	1.76	0.84
2:AA:900:A:C8	2:AA:901:A:C8	2.65	0.84
3:AC:77:ILE:HG22	3:AC:119:VAL:HG21	1.60	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2218:G:O3'	4:AD:184:LEU:HD13	1.76	0.84
5:AE:193:PHE:CE2	5:AE:199:ALA:CB	2.60	0.84
6:AF:239:ALA:O	6:AF:242:GLU:N	2.11	0.84
7:AG:76:ARG:O	7:AG:80:ALA:CB	2.26	0.84
2:AA:2675:A:H5'	13:AN:30:ARG:N	1.91	0.84
15:AP:65:ARG:HH22	15:AP:87:LYS:N	1.75	0.84
16:AQ:114:LYS:O	16:AQ:117:ALA:HB3	1.78	0.84
17:AR:23:HIS:NE2	17:AR:27:ALA:HB3	1.93	0.84
20:AU:23:VAL:HG23	20:AU:67:LEU:CD2	2.05	0.84
34:BA:1192:C:N4	34:BA:1193:G:C5	2.45	0.84
34:BA:984:C:N4	34:BA:1221:G:H1	1.74	0.84
34:BA:872:A:HO2'	34:BA:873:A:H3'	1.40	0.84
34:BA:941:G:H1	34:BA:1342:C:H42	1.24	0.84
34:BA:961:U:O2'	34:BA:962:C:H5'	1.77	0.84
37:BE:21:ARG:CA	37:BE:39:ILE:HG12	2.06	0.84
37:BE:9:GLU:HB2	37:BE:217:ARG:NH1	1.91	0.84
39:BG:100:ARG:O	39:BG:104:VAL:HG23	1.77	0.84
39:BG:14:ARG:O	39:BG:14:ARG:HD3	1.77	0.84
40:BH:10:MET:HA	40:BH:32:VAL:CG2	2.07	0.84
40:BH:110:LEU:HA	40:BH:113:ALA:HB3	1.58	0.84
42:BJ:104:LEU:HD22	42:BJ:134:ALA:HB1	1.57	0.84
43:BK:23:SER:O	43:BK:24:THR:HB	1.77	0.84
43:BK:6:ILE:CD1	43:BK:85:ARG:HH11	1.91	0.84
43:BK:97:VAL:HG22	43:BK:98:LYS:H	1.41	0.84
26:A2:69:ILE:HG13	26:A2:91:THR:CG2	2.08	0.84
30:A6:54:LYS:HZ2	30:A6:54:LYS:HA	1.43	0.84
2:AA:1083:U:C2'	9:AI:37:VAL:CA	2.45	0.84
2:AA:1664:A:O5'	2:AA:1664:A:H8	1.60	0.84
2:AA:1759:A:C2'	2:AA:1760:A:O5'	2.25	0.84
2:AA:2353:G:N1	2:AA:2364:C:N4	2.22	0.84
2:AA:2805:G:H8	2:AA:2807:G:O4'	1.60	0.84
2:AA:6:A:H5''	12:AM:4:ALA:N	1.91	0.84
2:AA:974(A):C:H1'	2:AA:989:G:H1	1.40	0.84
4:AD:209:ASN:HB3	4:AD:213:LYS:HZ3	1.42	0.84
5:AE:105:HIS:CB	5:AE:108:LEU:HG	2.06	0.84
15:AP:48:ASN:O	15:AP:121:ASP:HB3	1.77	0.84
15:AP:54:VAL:HG12	15:AP:56:ILE:HD13	1.59	0.84
2:AA:1393:A:H61	19:AT:13:LYS:NZ	1.75	0.84
19:AT:56:ASN:HD21	19:AT:62:LYS:HE3	1.41	0.84
34:BA:1378:C:O2	34:BA:1378:C:H2'	1.76	0.84
34:BA:1513:A:H2'	34:BA:1514:C:C6	2.12	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:193:C:O4'	55:BW:60:GLU:HG2	1.77	0.84
34:BA:520:A:C3'	34:BA:521:G:H5''	2.07	0.84
37:BE:111:ARG:O	37:BE:114:ARG:HB3	1.77	0.84
39:BG:191:ARG:HD3	39:BG:191:ARG:O	1.78	0.84
43:BK:100:ILE:HG22	43:BK:101:PRO:HD2	1.58	0.84
43:BK:126:LYS:NZ	43:BK:127:LEU:HD23	1.91	0.84
43:BK:82:HIS:O	43:BK:137:VAL:HA	1.76	0.84
34:BA:363:A:C5	47:BO:31:PRO:HD2	2.13	0.84
51:BS:20:VAL:HG11	51:BS:32:TYR:CD2	2.13	0.84
10:AK:114:LYS:HE2	10:AK:133:LEU:HA	1.59	0.84
2:AA:445:C:P	25:A1:2:PRO:HD2	2.18	0.84
2:AA:397:G:OP2	28:A4:10:VAL:HG11	1.78	0.84
31:A7:32:ALA:HA	31:A7:35:ARG:HG3	1.58	0.84
2:AA:1020:A:O4'	12:AM:49:ARG:NH2	2.10	0.84
2:AA:1248:G:O2'	2:AA:1249:U:OP1	1.96	0.84
2:AA:1270:C:H4'	2:AA:1271:G:H5''	0.88	0.84
2:AA:1286:A:N3	2:AA:1329:U:C4	2.45	0.84
2:AA:1301:A:H62	2:AA:1303:G:H1'	1.43	0.84
2:AA:136:G:O6	2:AA:143:C:N3	2.11	0.84
2:AA:1913:A:C8	2:AA:1918:A:N1	2.46	0.84
2:AA:1992:G:N2	2:AA:1995:U:C5	2.46	0.84
2:AA:1992:G:C6	2:AA:1997:G:C4	2.65	0.84
2:AA:2058:A:H2'	2:AA:2059:A:H8	1.40	0.84
2:AA:223:A:H4'	2:AA:223:A:OP2	1.77	0.84
2:AA:2346:A:H4'	2:AA:2383:G:O4'	1.78	0.84
2:AA:2346:A:C4'	2:AA:2383:G:O4'	2.26	0.84
2:AA:265:A:N3	2:AA:266:G:H1'	1.92	0.84
2:AA:2802:G:H2'	2:AA:2803:C:H6	1.42	0.84
2:AA:2865:U:C5	2:AA:2866:U:H5	1.94	0.84
2:AA:2810:A:H62	2:AA:2891:G:N2	1.74	0.84
2:AA:371:A:H5''	2:AA:423:A:C8	2.13	0.84
2:AA:566:U:C6	2:AA:567:A:N7	2.45	0.84
2:AA:786:C:O2'	2:AA:787:U:C5'	2.25	0.84
3:AC:133:PRO:HA	3:AC:172:HIS:NE2	1.92	0.84
4:AD:164:LEU:HD13	4:AD:174:ARG:HH12	1.43	0.84
5:AE:201:VAL:CG2	5:AE:311:PHE:HB3	2.07	0.84
5:AE:68:VAL:HG13	5:AE:69:PRO:HD2	1.59	0.84
12:AM:108:PRO:HG2	12:AM:109:TYR:CD1	2.11	0.84
12:AM:10:VAL:CG1	12:AM:36:VAL:HG13	2.08	0.84
2:AA:142(A):A:C4'	12:AM:21:ARG:NH2	2.37	0.84
13:AN:98:ILE:HG22	13:AN:119:PRO:HD3	1.57	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:5:ALA:HB3	18:AS:105:VAL:CG2	2.07	0.84
21:AV:174:PRO:O	21:AV:175:ARG:NH1	2.10	0.84
34:BA:1081:G:OP2	40:BH:27:ARG:HD2	1.77	0.84
34:BA:1196:U:H5'	34:BA:1197:G:C5'	2.07	0.84
34:BA:1339:A:C2'	34:BA:1340:A:H5'	2.07	0.84
34:BA:163:C:O2'	34:BA:164:U:H5'	1.76	0.84
34:BA:426:G:H2'	34:BA:427:U:C6	2.13	0.84
34:BA:640:A:C2'	34:BA:641:U:H5'	2.07	0.84
34:BA:828:A:C6	34:BA:859:A:O4'	2.30	0.84
35:BB:34:G:O5'	35:BB:34:G:H8	1.59	0.84
39:BG:152:SER:C	39:BG:154:ASN:H	1.77	0.84
43:BK:10:LEU:HA	43:BK:13:ILE:HD12	1.57	0.84
44:BL:118:LYS:O	44:BL:120:ARG:N	2.11	0.84
34:BA:551:U:H5'	47:BO:119:LYS:HE2	1.58	0.84
48:BP:78:ILE:HA	48:BP:88:ARG:HH21	1.41	0.84
10:AK:79:ILE:HD12	10:AK:79:ILE:N	1.93	0.84
36:B1:30:U:H2'	36:B1:31:G:H5'	1.60	0.84
24:A0:83:ILE:HG23	24:A0:86:ARG:HE	1.40	0.84
25:A1:40:LEU:HD11	26:A2:83:ARG:NE	1.92	0.84
31:A7:30:ILE:O	31:A7:33:ARG:HB2	1.77	0.84
2:AA:1903:G:C2	2:AA:1904:G:N7	2.45	0.84
2:AA:1943:U:H1'	2:AA:1945:G:H5'	1.59	0.84
2:AA:2577:A:H2	29:A5:5:PRO:HB3	1.41	0.84
2:AA:388:G:H2'	2:AA:390:A:C5	2.13	0.84
2:AA:27:G:N2	2:AA:512:G:H2'	1.92	0.84
2:AA:640:C:N4	2:AA:647:G:N1	2.25	0.84
2:AA:929:G:N7	2:AA:930:U:C6	2.46	0.84
1:AB:24:G:O6	1:AB:56:G:H2'	1.77	0.84
3:AC:171:ILE:CD1	3:AC:196:LEU:HD13	2.07	0.84
4:AD:211:HIS:HA	4:AD:222:PRO:HG3	1.57	0.84
4:AD:62:ARG:NH2	4:AD:84:PRO:HD2	1.91	0.84
4:AD:85:ASN:C	4:AD:86:ARG:HE	1.81	0.84
6:AF:99:SER:O	6:AF:100:LEU:HG	1.76	0.84
7:AG:56:ARG:CD	7:AG:65:GLU:HB2	2.07	0.84
8:AH:34:ARG:HG2	8:AH:35:THR:H	1.41	0.84
8:AH:93:TYR:CG	8:AH:106:VAL:HG22	2.12	0.84
34:BA:118:U:H3'	34:BA:288:A:N6	1.91	0.84
34:BA:597:G:H1	34:BA:643:C:N4	1.75	0.84
35:BB:53:G:H2'	35:BB:54:U:H6	1.40	0.84
37:BE:70:PHE:CE2	37:BE:163:PHE:HB3	2.11	0.84
39:BG:8:VAL:HG13	39:BG:11:LEU:CD1	2.08	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BH:109:ILE:HG13	40:BH:135:THR:HG21	1.59	0.84
41:BI:3:ARG:HB2	41:BI:66:GLU:HB3	1.59	0.84
34:BA:585:G:H4'	47:BO:8:ASN:ND2	1.92	0.84
51:BS:74:LEU:HD22	51:BS:79:VAL:CG2	2.06	0.84
34:BA:255:G:H1'	52:BT:16:GLN:HE21	1.43	0.84
35:BB:28:C:N4	35:BB:42:G:O6	2.10	0.84
10:AK:111:ASP:HB3	10:AK:114:LYS:HG2	1.57	0.84
10:AK:66:LYS:HA	10:AK:69:LYS:HD3	1.59	0.84
36:B1:17:G:H22	36:B1:39:A:H61	1.23	0.84
24:A0:33:ARG:O	24:A0:34:ILE:HG12	1.78	0.84
26:A2:4:ILE:C	26:A2:39:PHE:HE2	1.79	0.84
32:A8:23:MET:SD	32:A8:47:GLY:O	2.36	0.84
2:AA:1814:G:H3'	2:AA:1815:A:H8	1.43	0.84
2:AA:1816:G:C8	4:AD:63:ILE:HG13	2.11	0.84
2:AA:2106:G:H1	2:AA:2183:C:H42	1.25	0.84
2:AA:2181:G:H2'	2:AA:2182:G:H5''	1.56	0.84
2:AA:2505:G:H2'	2:AA:2576:G:H22	1.39	0.84
2:AA:2807:G:N1	2:AA:2893:G:O6	2.10	0.84
2:AA:311:A:H1'	2:AA:332:A:C4	2.12	0.84
2:AA:300:A:O2'	2:AA:318:C:H1'	1.77	0.84
2:AA:388:G:O2'	2:AA:390:A:N6	2.09	0.84
2:AA:674:G:N1	2:AA:807:U:O4	2.11	0.84
2:AA:789:A:O2'	2:AA:790:C:OP1	1.95	0.84
2:AA:973:A:N1	26:A2:81:ARG:HG3	1.93	0.84
2:AA:990:A:C6	2:AA:1186:G:H1'	2.13	0.84
3:AC:163:PHE:HB2	3:AC:171:ILE:HD11	1.60	0.84
3:AC:10:LEU:HD11	3:AC:32:LEU:HA	1.59	0.84
7:AG:24:HIS:CB	7:AG:72:LYS:HD3	2.08	0.84
7:AG:97:GLN:O	7:AG:104:PHE:HB3	1.77	0.84
15:AP:31:PHE:HA	15:AP:85:ILE:CD1	2.07	0.84
17:AR:21:PHE:HB2	17:AR:31:PHE:CD1	2.13	0.84
34:BA:1069:C:N4	34:BA:1106:G:H1	1.75	0.84
34:BA:1185:G:H2'	34:BA:1186:G:O4'	1.75	0.84
34:BA:1322:C:H4'	34:BA:1323:G:OP1	1.78	0.84
34:BA:1378:C:OP1	42:BJ:7:ALA:HB3	1.76	0.84
34:BA:1497:G:H2'	34:BA:1498:U:H6	1.43	0.84
34:BA:22:G:H5'	34:BA:885:G:O4'	1.78	0.84
34:BA:510:A:H8	34:BA:510:A:O5'	1.61	0.84
37:BE:15:VAL:HG21	37:BE:209:ARG:HB3	1.59	0.84
38:BF:15:THR:HB	38:BF:181:ASN:OD1	1.76	0.84
38:BF:83:ARG:O	38:BF:85:ARG:N	2.11	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BO:92:ASP:C	47:BO:93:LEU:HD23	1.98	0.84
48:BP:77:ASN:CB	48:BP:80:ARG:HH11	1.89	0.84
50:BR:27:VAL:O	50:BR:31:LEU:HD13	1.78	0.84
34:BA:624:C:H4'	51:BS:10:GLY:O	1.77	0.84
24:A0:90:ARG:HH22	24:A0:117:VAL:CG2	1.91	0.84
25:A1:93:LYS:HB2	26:A2:10:LYS:HZ3	1.42	0.84
25:A1:65:ILE:CD1	25:A1:96:ALA:HB2	2.07	0.84
26:A2:4:ILE:HA	26:A2:12:TYR:HE2	1.41	0.84
27:A3:46:LYS:HG2	27:A3:58:THR:N	1.93	0.84
2:AA:2331:G:HO2'	27:A3:70:ILE:HG21	1.39	0.84
2:AA:1258:C:O2'	2:AA:1259:G:H5'	1.76	0.84
2:AA:2290:G:H1	2:AA:2342:C:H42	1.22	0.84
2:AA:2658:C:H2'	2:AA:2659:G:C5'	2.07	0.84
2:AA:541:C:N4	2:AA:552:G:H1	1.75	0.84
2:AA:703:U:H3'	2:AA:704:G:H8	1.43	0.84
2:AA:828:U:C2'	2:AA:829:A:C8	2.55	0.84
2:AA:953:A:C2'	2:AA:954:G:H5'	2.08	0.84
2:AA:972:G:OP1	2:AA:975:G:OP1	1.95	0.84
7:AG:134:LEU:HD13	7:AG:136:ARG:NE	1.93	0.84
9:AI:80:ILE:HG22	9:AI:81:THR:HG23	1.58	0.84
14:AO:67:ARG:CZ	14:AO:110:GLY:O	2.25	0.84
2:AA:873:G:O3'	15:AP:32:LYS:HG2	1.78	0.84
15:AP:33:MET:SD	21:AV:175:ARG:NH1	2.49	0.84
23:AX:55:ARG:HH11	23:AX:55:ARG:HB3	1.43	0.84
34:BA:1403:C:H1'	34:BA:1500:A:N6	1.93	0.84
34:BA:5:U:O2'	34:BA:6:G:OP2	1.94	0.84
34:BA:708:C:H4'	46:BN:37:GLY:HA3	1.59	0.84
42:BJ:150:ALA:HB2	46:BN:59:TYR:HD2	1.42	0.84
42:BJ:83:ALA:HB3	42:BJ:85:TYR:CE2	2.13	0.84
43:BK:83:ILE:HA	43:BK:137:VAL:HG22	1.58	0.84
49:BQ:26:ARG:HD3	49:BQ:43:CYS:CB	2.07	0.84
53:BU:62:GLU:O	53:BU:66:LEU:HG	1.78	0.84
54:BV:46:GLY:H	54:BV:62:ILE:CG2	1.90	0.84
2:AA:1482:U:C1'	2:AA:1512:G:N2	2.37	0.84
30:A6:29:ARG:HG2	30:A6:30:ASN:N	1.93	0.84
2:AA:1300:U:H4'	2:AA:1301:A:O5'	1.76	0.84
2:AA:1570:A:C2	2:AA:1571:A:N7	2.45	0.84
2:AA:1749:A:O2'	2:AA:1750:G:H5'	1.78	0.84
2:AA:1980:G:O2'	2:AA:1981:A:OP1	1.96	0.84
2:AA:2124:G:H3'	2:AA:2124:G:C8	2.13	0.84
2:AA:2233:U:O2'	2:AA:2234:G:H5'	1.78	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:230:U:H2'	2:AA:231:C:H6	1.43	0.84
2:AA:270:A:H2'	2:AA:270(A):A:H4'	1.56	0.84
1:AB:57:A:H1'	7:AG:13:MET:CE	2.07	0.84
1:AB:71:C:H2'	1:AB:72:G:O4'	1.76	0.84
4:AD:185:GLY:O	4:AD:187:CYS:N	2.10	0.84
4:AD:62:ARG:HH22	4:AD:84:PRO:CD	1.90	0.84
5:AE:214:VAL:HG11	5:AE:221:LYS:HZ2	1.40	0.84
6:AF:5:ILE:HA	6:AF:139:VAL:HG11	1.60	0.84
9:AI:119:GLU:HA	9:AI:123:ALA:O	1.76	0.84
2:AA:1055:G:N3	9:AI:28:LYS:HD3	1.92	0.84
9:AJ:13:LEU:HA	9:AJ:17:GLU:OE1	1.78	0.84
12:AM:84:ARG:HA	12:AM:87:LEU:CD1	2.08	0.84
2:AA:954:G:OP1	15:AP:10:ILE:HA	1.77	0.84
15:AP:98:GLY:O	35:BC:1:G:O2'	1.96	0.84
16:AQ:111:PRO:HA	16:AQ:116:PHE:CD1	2.13	0.84
17:AR:6:CYS:SG	17:AR:31:PHE:HD2	2.01	0.84
20:AU:71:VAL:HG13	20:AU:72:ILE:H	1.42	0.84
34:BA:170:U:O2'	34:BA:171:A:H5'	1.78	0.84
34:BA:195:A:H8	34:BA:195:A:H5'	1.43	0.84
34:BA:580:U:H2'	34:BA:581:G:C8	2.13	0.84
34:BA:658:G:O2'	34:BA:659:U:H5'	1.77	0.84
34:BA:859:A:H2'	34:BA:860:A:O4'	1.78	0.84
34:BA:922:G:H1	34:BA:1395:C:N4	1.75	0.84
37:BE:186:ALA:O	37:BE:201:ILE:HB	1.77	0.84
42:BJ:68:ASN:ND2	42:BJ:128:ALA:CA	2.39	0.84
48:BP:48:LEU:HD13	48:BP:53:VAL:HG22	1.60	0.84
10:AK:103:GLN:HE21	10:AK:110:LEU:H	1.26	0.84
10:AK:96:LYS:HG2	10:AK:100:GLU:OE2	1.78	0.84
24:A0:51:LEU:CD2	24:A0:66:VAL:HG13	2.07	0.83
25:A1:13:ARG:N	25:A1:13:ARG:NH1	2.19	0.83
2:AA:1061:U:C5'	2:AA:1070:A:H4'	2.08	0.83
2:AA:1227:A:H8	2:AA:1228:G:H5''	1.40	0.83
2:AA:1239:G:HO2'	2:AA:1240:U:H6	0.87	0.83
2:AA:1361:G:H2'	2:AA:1362:C:C6	2.13	0.83
2:AA:1495:A:H2'	2:AA:1496:A:C8	2.12	0.83
2:AA:240:G:C6	2:AA:241:A:N6	2.45	0.83
2:AA:2815:C:O2'	2:AA:2816:C:H5'	1.78	0.83
2:AA:391:G:H2'	2:AA:392:C:H6	1.42	0.83
2:AA:515:A:H3'	2:AA:516:C:H6	1.43	0.83
2:AA:612:G:O2'	2:AA:615:G:H2'	1.78	0.83
3:AC:56:GLN:HA	3:AC:201:PRO:CB	2.08	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:154:VAL:HG22	4:AD:157:ALA:CB	2.06	0.83
4:AD:174:ARG:HE	4:AD:180:VAL:CG2	1.91	0.83
2:AA:600:G:H5'	6:AF:27:ARG:HH11	1.41	0.83
8:AH:159:LYS:O	8:AH:162:ARG:NH2	2.10	0.83
8:AH:34:ARG:NH2	8:AH:74:MET:HA	1.93	0.83
19:AT:32:ALA:CB	19:AT:37:VAL:HG23	2.08	0.83
15:AP:41:THR:O	21:AV:116:VAL:HG11	1.78	0.83
21:AV:86:VAL:HG11	21:AV:91:PRO:HG3	1.60	0.83
34:BA:125:U:H2'	34:BA:126:G:C8	2.13	0.83
34:BA:563:A:N3	47:BO:15:ARG:NH1	2.25	0.83
34:BA:657:G:N2	34:BA:750:G:C8	2.46	0.83
37:BE:222:ILE:HD12	37:BE:226:ARG:HH21	1.42	0.83
40:BH:77:PRO:HG2	40:BH:78:HIS:HD2	1.43	0.83
43:BK:18:ARG:NH1	43:BK:18:ARG:HA	1.92	0.83
47:BO:113:ARG:C	47:BO:114:LYS:HG3	1.97	0.83
25:A1:42:ALA:O	25:A1:46:GLU:HG3	1.78	0.83
26:A2:63:HIS:HA	26:A2:95:ILE:HG23	1.58	0.83
32:A8:14:ILE:O	32:A8:14:ILE:HG22	1.78	0.83
2:AA:112:U:C6	2:AA:112:U:H5'	2.12	0.83
2:AA:145:G:O2'	2:AA:146:G:H5'	1.77	0.83
2:AA:1526:G:H22	2:AA:1546:C:N4	1.75	0.83
2:AA:1583:A:OP1	2:AA:1586:A:OP1	1.95	0.83
2:AA:1805:U:OP2	2:AA:1805:U:H6	1.61	0.83
2:AA:1956:U:C2'	2:AA:1956:U:O2	2.26	0.83
2:AA:2380:C:H2'	2:AA:2381:C:H5'	1.60	0.83
2:AA:343:C:N4	2:AA:344:G:N1	2.08	0.83
2:AA:955:C:C2'	2:AA:956:G:H5'	2.07	0.83
1:AB:97:G:C5	1:AB:98:G:N7	2.46	0.83
3:AC:116:THR:HG22	3:AC:149:ILE:HB	1.59	0.83
4:AD:145:LEU:H	4:AD:152:GLN:CB	1.91	0.83
5:AE:267:ARG:HB2	5:AE:297:LYS:HD2	1.59	0.83
5:AE:76:PRO:HB3	5:AE:292:PRO:HG2	1.60	0.83
15:AP:101:MET:SD	15:AP:101:MET:O	2.36	0.83
15:AP:58:HIS:O	15:AP:62:GLU:HG3	1.77	0.83
15:AP:12:PRO:HG2	15:AP:91:HIS:HB2	1.59	0.83
18:AS:29:LEU:HD12	18:AS:33:ARG:HD2	1.58	0.83
21:AV:21:ALA:HB2	21:AV:81:VAL:HB	1.58	0.83
34:BA:225:C:H2'	34:BA:226:G:C5'	2.08	0.83
35:BB:32:C:C4	35:BB:33:U:C4	2.66	0.83
43:BK:103:VAL:HB	43:BK:108:GLY:CA	2.08	0.83
47:BO:28:LYS:CE	47:BO:33:ARG:HH12	1.90	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BQ:9:LYS:HA	49:BQ:21:TYR:HE1	1.43	0.83
2:AA:458:G:OP1	31:A7:39:ARG:CZ	2.26	0.83
32:A8:26:LYS:HD2	32:A8:44:LYS:HA	1.59	0.83
2:AA:1210:A:H5'	2:AA:1211:U:H3'	1.60	0.83
2:AA:1353:A:N6	2:AA:1378:A:C6	2.46	0.83
2:AA:1458:C:H4'	2:AA:1459:G:C4	2.13	0.83
2:AA:1471:A:N3	2:AA:1472:A:H1'	1.92	0.83
2:AA:1536:A:C8	2:AA:1538:G:O4'	2.31	0.83
2:AA:1685:C:H2'	2:AA:1686:C:C6	2.12	0.83
2:AA:1772:G:H2'	2:AA:1773:A:C4'	2.06	0.83
2:AA:1796:U:O2	2:AA:1823:G:N2	2.10	0.83
2:AA:1840:G:O2'	2:AA:1841:U:H5'	1.78	0.83
2:AA:2100:G:H1'	2:AA:2190:G:N2	1.93	0.83
2:AA:2565:A:H2'	2:AA:2566:A:H1'	1.59	0.83
2:AA:347:A:H8	2:AA:347:A:H3'	1.41	0.83
2:AA:54:G:H1	2:AA:116:C:H42	0.86	0.83
2:AA:559:G:C2'	2:AA:560:C:H6	1.88	0.83
2:AA:903:C:H2'	2:AA:904:C:H6	1.42	0.83
2:AA:90:U:O2'	2:AA:91:A:H5''	1.79	0.83
4:AD:90:ILE:HG13	4:AD:105:ALA:N	1.94	0.83
2:AA:2209:C:H4'	4:AD:149:ARG:HH21	1.42	0.83
5:AE:219:VAL:HG11	5:AE:235:ILE:HD11	1.60	0.83
5:AE:70:VAL:HG22	5:AE:297:LYS:HA	1.57	0.83
8:AH:28:PRO:C	8:AH:30:GLY:H	1.77	0.83
17:AR:23:HIS:CE1	17:AR:27:ALA:CB	2.56	0.83
20:AU:43:ASN:HD21	20:AU:112:LEU:HD21	1.41	0.83
20:AU:87:VAL:HG13	20:AU:88:PRO:CD	2.08	0.83
21:AV:104:SER:HB2	21:AV:108:VAL:HB	1.60	0.83
23:AX:8:LEU:HD23	23:AX:31:LEU:HA	1.58	0.83
34:BA:1436:U:H2'	34:BA:1437:C:O4'	1.77	0.83
34:BA:559:A:C4'	34:BA:560:U:H5''	2.07	0.83
34:BA:575:G:OP1	34:BA:575:G:H4'	1.78	0.83
34:BA:944:G:N2	34:BA:1339:A:H62	1.76	0.83
35:BC:69:U:H2'	35:BC:70:C:C6	2.13	0.83
37:BE:97:TRP:CH2	37:BE:176:GLU:HG3	2.13	0.83
38:BF:138:VAL:HG22	38:BF:151:VAL:HG23	1.59	0.83
38:BF:47:LEU:HD11	38:BF:83:ARG:HH21	1.42	0.83
40:BH:141:GLN:HA	40:BH:143:ARG:NH2	1.91	0.83
42:BJ:20:ASP:OD1	42:BJ:22:LEU:HB3	1.78	0.83
42:BJ:5:ARG:O	42:BJ:6:ARG:HB2	1.79	0.83
48:BP:110:ARG:NH1	48:BP:110:ARG:HB2	1.92	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:60:VAL:HA	48:BP:63:THR:CG2	2.07	0.83
34:BA:277:C:OP1	52:BT:41:LYS:HD2	1.78	0.83
52:BT:62:SER:HB3	52:BT:72:ARG:NE	1.91	0.83
34:BA:247:G:OP2	52:BT:99:SER:CA	2.27	0.83
54:BV:18:LYS:HA	54:BV:18:LYS:HE3	1.58	0.83
55:BW:72:LEU:HD13	55:BW:77:ALA:CB	2.08	0.83
55:BW:49:ALA:HB3	55:BW:99:LEU:HG	1.58	0.83
1:AB:12:C:N4	27:A3:50:GLY:H	1.74	0.83
25:A1:73:GLY:O	25:A1:74:MET:HG2	1.78	0.83
2:AA:1351:C:H2'	2:AA:1352:U:C6	2.13	0.83
2:AA:1453:A:C5	2:AA:1454:U:H1'	2.14	0.83
2:AA:1717:G:N2	2:AA:1718:G:H1'	1.93	0.83
2:AA:1742:C:H2'	2:AA:1743:G:O4'	1.78	0.83
2:AA:1752:C:H42	2:AA:1756:G:H1	0.85	0.83
2:AA:1754:C:H2'	2:AA:1755:A:H1'	1.59	0.83
2:AA:2078:C:C5'	2:AA:2434:A:H5'	2.08	0.83
2:AA:23:G:C2'	2:AA:24:G:H5'	2.08	0.83
2:AA:2423:U:H6	2:AA:2425:A:C5	1.96	0.83
2:AA:241:A:H1'	2:AA:243:U:C6	2.12	0.83
2:AA:270(N):G:H2'	2:AA:270(O):U:H5'	1.60	0.83
2:AA:2725:A:H2'	2:AA:2726:U:H3'	1.59	0.83
2:AA:401:A:N6	2:AA:423:A:N1	2.27	0.83
2:AA:503:A:N3	2:AA:505:A:N7	2.26	0.83
4:AD:119:PRO:O	4:AD:129:LEU:HD21	1.78	0.83
7:AG:71:ALA:O	7:AG:72:LYS:HD3	1.77	0.83
16:AQ:23:ARG:HH21	16:AQ:35:VAL:HG21	1.43	0.83
16:AQ:47:LEU:N	16:AQ:57:THR:HG22	1.92	0.83
16:AQ:61:ALA:HB1	16:AQ:84:THR:HG22	1.59	0.83
34:BA:1284:C:H2'	34:BA:1285:A:C8	2.14	0.83
34:BA:360:A:O2'	34:BA:361:G:H5'	1.78	0.83
34:BA:984:C:H42	34:BA:1221:G:H1	1.23	0.83
35:BC:44:A:H61	35:BC:45:G:N2	1.75	0.83
37:BE:212:GLN:OE1	37:BE:216:SER:HB2	1.79	0.83
37:BE:73:THR:HA	37:BE:94:ASN:O	1.77	0.83
38:BF:53:ALA:HB2	38:BF:115:LEU:HD21	1.59	0.83
46:BN:27:ASN:HB2	46:BN:55:LYS:HE3	1.59	0.83
50:BR:9:GLN:OE1	50:BR:12:ILE:HD12	1.77	0.83
52:BT:53:LEU:HD12	52:BT:54:GLY:H	1.44	0.83
52:BT:81:ARG:HG2	52:BT:84:LEU:CD1	2.08	0.83
35:BB:28:C:C2	35:BB:29:A:C8	2.66	0.83
24:A0:41:ALA:HB1	24:A0:114:VAL:HG21	1.57	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:A0:50:HIS:O	24:A0:54:LEU:HD13	1.79	0.83
25:A1:82:GLY:O	25:A1:85:ARG:HB2	1.78	0.83
25:A1:8:ILE:N	25:A1:8:ILE:HD12	1.92	0.83
25:A1:65:ILE:HD13	25:A1:96:ALA:HB2	1.60	0.83
2:AA:2356:C:OP1	27:A3:19:LYS:HD2	1.79	0.83
2:AA:113:G:H5'	2:AA:114:U:OP1	1.77	0.83
2:AA:2484:G:C2'	2:AA:2485:G:H5'	2.07	0.83
4:AD:122:ASP:C	4:AD:124:LYS:H	1.77	0.83
5:AE:240:PRO:HG2	5:AE:243:PRO:HG3	1.60	0.83
6:AF:219:ASN:O	6:AF:222:ASP:HB2	1.77	0.83
8:AH:41:THR:O	8:AH:52:THR:OG1	1.93	0.83
10:AK:39:ALA:CB	10:AK:44:LEU:HD21	2.08	0.83
12:AM:52:GLN:HA	12:AM:55:GLU:CG	2.08	0.83
15:AP:26:LYS:HZ3	15:AP:90:PHE:HE1	1.20	0.83
15:AP:88:PHE:HB2	15:AP:90:PHE:HE1	1.44	0.83
18:AS:50:VAL:HG21	18:AS:103:ILE:HD13	1.60	0.83
20:AU:43:ASN:ND2	20:AU:112:LEU:HD21	1.94	0.83
34:BA:229:U:H2'	34:BA:230:G:H8	1.44	0.83
34:BA:30(C):G:O2'	34:BA:30(D):A:H5'	1.78	0.83
34:BA:597:G:N2	34:BA:643:C:N3	2.26	0.83
34:BA:610:G:H2'	34:BA:611:A:H5'	1.58	0.83
34:BA:70:G:N2	34:BA:98:U:O2	2.11	0.83
35:BB:74:C:H2'	35:BB:75:C:O5'	1.78	0.83
41:BI:39:LYS:HG3	41:BI:64:GLN:HB3	1.61	0.83
45:BM:54:PHE:CZ	45:BM:55:LYS:HE3	2.13	0.83
54:BV:11:VAL:HG13	54:BV:38:SER:OG	1.77	0.83
56:BX:12:LYS:HG3	56:BX:18:TYR:HB3	1.60	0.83
1:AB:12:C:H5	27:A3:53:MET:HA	1.36	0.83
26:A2:35:LEU:HB2	26:A2:63:HIS:CE1	2.12	0.83
33:A9:25:VAL:HB	33:A9:34:GLN:HB2	1.60	0.83
2:AA:1025:G:H8	2:AA:1134:G:C1'	1.91	0.83
2:AA:1063:G:O6	2:AA:1069:A:O3'	1.96	0.83
2:AA:1166:C:H2'	2:AA:1167:U:C6	2.13	0.83
2:AA:1179:C:O2'	2:AA:1180:C:O5'	1.95	0.83
2:AA:1322:A:C2'	2:AA:1323:U:H5'	2.09	0.83
2:AA:1405:U:H2'	2:AA:1406:U:C6	2.12	0.83
2:AA:1809:A:C2'	2:AA:1810:A:H5'	2.08	0.83
2:AA:1859:A:H2'	2:AA:1860:G:H5'	1.59	0.83
2:AA:218:A:C6	2:AA:235:U:H4'	2.13	0.83
2:AA:2471:C:H42	2:AA:2479:G:H1	0.83	0.83
2:AA:2509:G:C2'	2:AA:2510:C:H5'	2.09	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1782:C:N4	2:AA:2587:A:N6	2.25	0.83
2:AA:638:G:O2'	2:AA:639:U:H5'	1.79	0.83
2:AA:686:G:H5'	2:AA:687:C:OP2	1.79	0.83
3:AC:104:LEU:CB	3:AC:126:LYS:HE3	2.07	0.83
3:AC:43:VAL:HG23	3:AC:175:VAL:CG2	2.08	0.83
4:AD:142:ASN:CB	4:AD:190:THR:HG23	2.08	0.83
4:AD:194:VAL:HG23	4:AD:195:GLY:N	1.92	0.83
4:AD:196:ASN:HB2	4:AD:199:ARG:HB2	1.60	0.83
5:AE:80:ALA:HB2	5:AE:181:VAL:HA	1.58	0.83
6:AF:168:ARG:CZ	6:AF:209:GLY:HA2	2.08	0.83
2:AA:557:U:C4'	12:AM:92:GLN:NE2	2.35	0.83
15:AP:142:LYS:HE3	15:AP:143:VAL:HA	1.61	0.83
34:BA:130:A:H2	34:BA:263:A:H2	1.25	0.83
34:BA:1312:G:O2'	34:BA:1313:U:H5'	1.78	0.83
34:BA:1493:A:OP2	34:BA:1493:A:C8	2.31	0.83
34:BA:559:A:OP2	40:BH:126:ARG:NH2	2.12	0.83
34:BA:950:U:C2'	34:BA:951:G:H5'	2.09	0.83
37:BE:102:LEU:HD21	37:BE:173:ALA:HB1	1.59	0.83
39:BG:43:HIS:HB3	39:BG:46:LYS:HG3	1.60	0.83
49:BQ:12:ARG:O	49:BQ:14:PRO:N	2.11	0.83
50:BR:39:LEU:HD22	50:BR:56:LEU:HD13	1.61	0.83
50:BR:36:ILE:HG13	50:BR:59:MET:SD	2.18	0.83
51:BS:13:HIS:O	51:BS:15:PRO:HD3	1.77	0.83
53:BU:43:PHE:O	53:BU:51:LEU:HD13	1.78	0.83
54:BV:40:ILE:HB	54:BV:67:VAL:O	1.79	0.83
55:BW:51:GLU:HA	55:BW:54:LYS:HG3	1.59	0.83
55:BW:50:GLU:HB2	55:BW:99:LEU:CD1	2.08	0.83
35:BB:1:G:O6	35:BB:73:A:N6	2.10	0.83
2:AA:1041:C:N3	2:AA:1114:G:N2	2.26	0.83
25:A1:49:ASP:HA	25:A1:52:ASN:ND2	1.93	0.83
2:AA:1214:A:H2'	2:AA:1215:G:C8	2.14	0.83
2:AA:1281:G:H2'	2:AA:1282:U:C6	2.14	0.83
2:AA:1379:A:N3	2:AA:1379:A:C3'	2.42	0.83
2:AA:1819:A:H1'	2:AA:1821:A:C6	2.14	0.83
2:AA:2136:C:N4	2:AA:2155:G:C5	2.45	0.83
2:AA:2561:A:O2'	13:AN:40:VAL:HG11	1.78	0.83
2:AA:2794:C:N3	2:AA:2802:G:N2	2.25	0.83
2:AA:365:C:N4	2:AA:366:C:H41	1.77	0.83
2:AA:412:A:H2'	2:AA:413:C:O4'	1.78	0.83
2:AA:666:G:H2'	2:AA:667:U:H6	1.44	0.83
1:AB:44:G:H5''	1:AB:45:A:OP1	1.79	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:44:G:N2	1:AB:48:A:H1'	1.93	0.83
2:AA:2619:C:H4'	5:AE:247:ARG:O	1.77	0.83
7:AG:36:ASN:O	7:AG:39:ASP:HB2	1.79	0.83
9:AJ:80:ILE:HG22	9:AJ:81:THR:HG23	1.60	0.83
11:AL:28:LEU:HD13	11:AL:33:VAL:HG21	1.61	0.83
12:AM:23:ALA:HA	12:AM:26:VAL:HG21	1.61	0.83
14:AO:73:VAL:HG22	14:AO:76:LEU:CD2	2.08	0.83
20:AU:27:LEU:HD13	20:AU:31:LEU:HD12	1.59	0.83
21:AV:173:PRO:HB3	21:AV:177:THR:HG23	1.58	0.83
21:AV:70:GLN:C	21:AV:72:ASP:H	1.80	0.83
34:BA:748:C:O5'	34:BA:748:C:C6	2.31	0.83
34:BA:825:G:H1	34:BA:875:C:N4	1.76	0.83
34:BA:988:G:N1	34:BA:1217:C:O2	2.10	0.83
39:BG:102:ASP:CB	39:BG:121:VAL:HG21	2.09	0.83
40:BH:42:GLY:HA3	40:BH:66:MET:SD	2.19	0.83
43:BK:22:GLU:HA	43:BK:63:LEU:HD21	1.60	0.83
46:BN:111:ASP:O	46:BN:113:PRO:N	2.12	0.83
34:BA:675:A:H1'	46:BN:116:HIS:CG	2.14	0.83
46:BN:67:ASP:HA	46:BN:70:LYS:CD	2.08	0.83
46:BN:85:ARG:HH21	46:BN:111:ASP:CG	1.81	0.83
22:AW:39:ALA:HB3	22:AW:40:PRO:CD	2.07	0.83
2:AA:2009:G:H1'	24:A0:107:ASP:O	1.79	0.83
31:A7:31:LEU:O	31:A7:35:ARG:HG3	1.78	0.83
2:AA:1152:C:O2'	2:AA:1153:C:H5'	1.77	0.83
2:AA:1343:G:O6	2:AA:1404:C:N4	2.11	0.83
2:AA:1559:G:C2'	2:AA:1559:G:N3	2.42	0.83
2:AA:1770:G:H2'	2:AA:1771:C:H6	1.44	0.83
2:AA:2174:C:O2'	3:AC:218:MET:HA	1.78	0.83
2:AA:2212:A:N3	2:AA:2212:A:H2'	1.94	0.83
2:AA:2305:A:C3'	2:AA:2306:C:H5''	2.09	0.83
2:AA:324:A:C2	2:AA:325:G:C4	2.67	0.83
2:AA:462:C:H2'	2:AA:463:G:H5'	1.60	0.83
2:AA:815:C:O2'	2:AA:816:C:H5'	1.79	0.83
2:AA:826:U:H5''	2:AA:2429:G:P	2.19	0.83
2:AA:857:C:H42	2:AA:920:G:H1	0.91	0.83
3:AC:84:LYS:O	3:AC:87:GLU:HB2	1.78	0.83
5:AE:315:VAL:HG12	5:AE:316:ARG:H	1.41	0.83
6:AF:238:SER:O	6:AF:241:ALA:CB	2.26	0.83
9:AJ:10:ILE:HA	9:AJ:13:LEU:HD12	1.59	0.83
2:AA:1081:U:OP1	11:AL:126:LYS:HD3	1.77	0.83
11:AL:124:ALA:CA	11:AL:127:ILE:HD12	2.07	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:62:ASP:O	12:AM:64:GLY:N	2.11	0.83
13:AN:87:ILE:HG23	13:AN:92:SER:N	1.93	0.83
14:AO:113:GLN:HB2	14:AO:115:ARG:NH1	1.93	0.83
16:AQ:17:ARG:CZ	16:AQ:106:LEU:HD22	2.09	0.83
16:AQ:19:ASP:O	16:AQ:22:GLN:CD	2.16	0.83
34:BA:1113:C:H6	34:BA:1113:C:O5'	1.61	0.83
34:BA:1493:A:H8	34:BA:1493:A:OP2	1.62	0.83
34:BA:379:C:H42	34:BA:384:G:H1	1.27	0.83
34:BA:775:G:H2'	34:BA:776:G:H8	1.41	0.83
34:BA:575:G:N2	34:BA:880:C:O2	2.12	0.83
35:BB:47:U:H5	35:BB:49:C:H5''	1.32	0.83
39:BG:117:ALA:O	39:BG:121:VAL:HG23	1.78	0.83
39:BG:180:GLY:O	39:BG:182:LYS:HG2	1.79	0.83
41:BI:49:ALA:HB1	53:BU:80:PRO:CD	2.06	0.83
43:BK:115:SER:C	43:BK:116:LYS:HD2	1.98	0.83
48:BP:91:ARG:HB3	48:BP:98:VAL:CG2	2.09	0.83
52:BT:25:ARG:HH21	52:BT:40:LYS:CD	1.90	0.83
53:BU:74:ARG:HG2	53:BU:81:PHE:HB3	1.61	0.83
10:AK:115:ILE:HG22	10:AK:116:GLU:H	1.42	0.83
24:A0:20:LEU:CD2	24:A0:24:GLN:HG3	2.08	0.83
24:A0:37:THR:HG23	24:A0:40:LYS:HD2	1.61	0.83
25:A1:93:LYS:CB	26:A2:10:LYS:HZ3	1.92	0.83
2:AA:1376:C:H2'	2:AA:1377:G:C8	2.14	0.83
2:AA:297:C:H2'	2:AA:298:G:O4'	1.78	0.83
2:AA:602:G:N2	2:AA:655:A:H2'	1.94	0.83
2:AA:710:G:H1	2:AA:721:C:H42	1.23	0.83
2:AA:751:A:N1	2:AA:789:A:C6	2.47	0.83
4:AD:152:GLN:O	4:AD:153:LEU:HB2	1.77	0.83
6:AF:1:MET:HG2	6:AF:18:LEU:HD12	1.61	0.83
10:AK:28:ASN:O	10:AK:32:LYS:HB2	1.79	0.83
14:AO:71:GLU:HA	14:AO:74:THR:HG23	1.61	0.83
14:AO:77:ALA:HA	14:AO:81:VAL:CB	2.09	0.83
22:AW:55:ARG:CD	22:AW:55:ARG:H	1.91	0.83
34:BA:1395:C:O2	34:BA:1395:C:H2'	1.79	0.83
34:BA:1501:C:H2'	34:BA:1504:G:O6	1.77	0.83
34:BA:280:C:C5'	34:BA:281:G:OP2	2.25	0.83
34:BA:392:G:H5'	51:BS:12:LYS:CE	2.08	0.83
35:BB:34:G:C2	36:B1:66:G:C5	2.66	0.83
35:BB:54:U:C6	35:BB:54:U:C4'	2.62	0.83
37:BE:67:THR:HG21	37:BE:155:LEU:HD11	1.59	0.83
38:BF:20:SER:CB	38:BF:40:ARG:HH22	1.91	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BH:75:THR:HB	40:BH:118:ILE:HG12	1.59	0.83
43:BK:28:ALA:CB	43:BK:57:PRO:O	2.27	0.83
43:BK:36:LEU:O	43:BK:39:LEU:HB2	1.79	0.83
45:BM:6:ILE:HG22	45:BM:98:ILE:HG12	1.59	0.83
50:BR:76:GLU:HA	50:BR:79:ARG:NH1	1.94	0.83
51:BS:6:LEU:CA	51:BS:18:ARG:O	2.24	0.83
53:BU:21:LYS:HZ1	53:BU:23:LYS:HB2	1.40	0.83
8:AH:155:PRO:HB2	8:AH:169:ARG:HG3	1.60	0.83
18:AS:3:ALA:HB2	18:AS:62:HIS:ND1	1.93	0.83
25:A1:69:ALA:HA	25:A1:79:PHE:CZ	2.14	0.83
29:A5:50:GLY:HA2	29:A5:57:VAL:CB	2.07	0.83
2:AA:1155:A:H4'	25:A1:55:ARG:HH12	1.44	0.83
2:AA:1430:C:H2'	2:AA:1431:U:H6	1.43	0.83
2:AA:1421:G:O6	2:AA:1577:C:N3	2.11	0.83
2:AA:1996:C:H5''	2:AA:1996:C:H6	1.43	0.83
2:AA:2103:C:H2'	2:AA:2104:G:H8	1.44	0.83
2:AA:245:G:OP2	14:AO:53:ARG:NH1	2.11	0.83
2:AA:462:C:N3	2:AA:468:G:N2	2.26	0.83
2:AA:788:A:H4'	2:AA:789:A:O5'	1.77	0.83
1:AB:3:C:H2'	1:AB:4:C:O4'	1.79	0.83
3:AC:131:LEU:HD12	3:AC:137:LEU:HD22	1.61	0.83
4:AD:146:LYS:HD3	4:AD:147:PRO:HD2	1.59	0.83
5:AE:180:ILE:HB	5:AE:187:HIS:HB3	1.61	0.83
6:AF:224:ALA:N	6:AF:225:PRO:HD2	1.94	0.83
6:AF:81:PRO:O	6:AF:82:GLN:NE2	2.11	0.83
6:AF:91:PRO:HB2	6:AF:92:PRO:HD2	1.60	0.83
2:AA:1085:A:H5'	9:AI:29:PHE:CG	2.12	0.83
9:AI:35:ALA:HB3	9:AI:36:PRO:CD	2.08	0.83
12:AM:87:LEU:HB2	12:AM:98:PHE:HZ	1.40	0.83
21:AV:100:THR:HG22	21:AV:137:ASP:HB3	1.59	0.83
21:AV:24:TYR:HB3	21:AV:83:PHE:O	1.79	0.83
21:AV:70:GLN:HG2	21:AV:70:GLN:O	1.79	0.83
22:AW:45:ARG:NE	22:AW:49:LEU:HG	1.94	0.83
34:BA:1363:A:H4'	34:BA:1364:U:O5'	1.79	0.83
34:BA:247:G:O2'	34:BA:248:C:H5'	1.78	0.83
34:BA:7:G:H1'	34:BA:298:A:C8	2.13	0.83
34:BA:47:C:H4'	34:BA:48:C:H5'	1.59	0.83
34:BA:792:A:H2'	34:BA:794:A:H62	1.44	0.83
39:BG:152:SER:O	39:BG:154:ASN:N	2.11	0.83
39:BG:22:LYS:HB3	39:BG:26:CYS:HB2	1.60	0.83
48:BP:104:ARG:HG2	48:BP:105:THR:HG23	1.61	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:9:A:N1	35:BB:45:G:C6	2.46	0.83
2:AA:1362:C:N3	2:AA:1369:G:O6	2.12	0.82
2:AA:1659:U:O2'	2:AA:1660:C:H5'	1.77	0.82
2:AA:2756:U:O2'	2:AA:2757:A:H5'	1.78	0.82
2:AA:595:C:N4	2:AA:662:G:H1	1.77	0.82
2:AA:826:U:H5''	2:AA:2428:G:O3'	1.78	0.82
2:AA:969:U:C2	2:AA:970:C:C6	2.67	0.82
1:AB:5:C:H2'	1:AB:6:C:H6	1.43	0.82
3:AC:93:TYR:HE2	3:AC:110:PHE:N	1.77	0.82
2:AA:1818:U:O2	4:AD:153:LEU:HD12	1.79	0.82
5:AE:216:ARG:CD	5:AE:253:GLN:HA	2.09	0.82
5:AE:256:THR:HA	5:AE:259:HIS:HE1	1.40	0.82
8:AH:159:LYS:H	8:AH:162:ARG:HH12	0.85	0.82
2:AA:1084:A:C5'	9:AI:38:ALA:N	2.41	0.82
12:AM:24:SER:O	12:AM:27:ALA:HB3	1.77	0.82
13:AN:42:THR:CG2	13:AN:57:VAL:HA	2.07	0.82
13:AN:64:ARG:HB2	13:AN:79:PHE:CD1	2.14	0.82
14:AO:114:VAL:O	14:AO:115:ARG:HG3	1.79	0.82
15:AP:51:GLU:N	15:AP:51:GLU:CD	2.33	0.82
21:AV:3:LEU:HD21	21:AV:38:ALA:HB3	1.59	0.82
34:BA:141:A:H1'	34:BA:182:U:O2	1.79	0.82
34:BA:190(E):U:C4	52:BT:72:ARG:NH2	2.47	0.82
34:BA:519:C:H2'	34:BA:520:A:H5'	1.59	0.82
34:BA:817:C:O2'	34:BA:818:G:H5''	1.77	0.82
35:BB:19:G:C4'	35:BB:20:G:OP2	2.26	0.82
38:BF:157:ILE:HD12	38:BF:164:ARG:CZ	2.09	0.82
39:BG:102:ASP:O	39:BG:105:VAL:HB	1.79	0.82
48:BP:29:ARG:CZ	48:BP:64:TRP:HE1	1.92	0.82
56:BX:16:GLY:O	56:BX:18:TYR:N	2.11	0.82
25:A1:91:ASN:O	25:A1:95:LEU:HD21	1.80	0.82
26:A2:39:PHE:CE1	26:A2:42:GLY:HA2	2.15	0.82
2:AA:2347:C:H4'	30:A6:40:TYR:OH	1.79	0.82
2:AA:152:G:N2	2:AA:176:G:C4	2.47	0.82
2:AA:2324:C:O2	2:AA:2385:C:H5	1.62	0.82
2:AA:2622:C:O2'	2:AA:2824:C:N4	2.13	0.82
2:AA:270(Q):C:O2'	2:AA:270(R):G:H5'	1.78	0.82
2:AA:2832:U:H1'	2:AA:2834:G:N2	1.94	0.82
2:AA:287:C:H2'	2:AA:288:C:C5	2.14	0.82
4:AD:69:ASP:OD2	4:AD:188:ARG:NH1	2.12	0.82
2:AA:1058:G:N2	11:AL:117:ASN:HD21	1.77	0.82
14:AO:64:ILE:CD1	14:AO:106:VAL:HG12	2.08	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:10:ILE:O	15:AP:11:LYS:HD3	1.79	0.82
15:AP:84:ARG:NH2	15:AP:86:ARG:HH21	1.78	0.82
20:AU:44:ALA:HB1	20:AU:65:VAL:HG21	1.61	0.82
15:AP:36:ASN:HD21	21:AV:116:VAL:HB	1.45	0.82
21:AV:130:ILE:O	21:AV:130:ILE:HD12	1.78	0.82
21:AV:123:VAL:HA	21:AV:161:ALA:CB	2.08	0.82
34:BA:1246:C:N3	34:BA:1291:G:O6	2.12	0.82
39:BG:120:LEU:HG	39:BG:125:HIS:CD2	2.14	0.82
41:BI:6:VAL:HG12	41:BI:63:TYR:O	1.78	0.82
45:BM:51:ARG:CB	45:BM:59:SER:HB3	2.09	0.82
46:BN:62:GLN:HE22	46:BN:63:LEU:CG	1.91	0.82
48:BP:81:LEU:CB	48:BP:86:CYS:SG	2.65	0.82
50:BR:41:GLU:N	50:BR:44:LYS:HZ1	1.77	0.82
51:BS:46:PRO:CG	51:BS:47:ASP:H	1.92	0.82
25:A1:9:VAL:HG12	25:A1:13:ARG:HH21	1.42	0.82
25:A1:50:ARG:HA	25:A1:53:LYS:NZ	1.94	0.82
2:AA:2057:A:H5'	29:A5:8:LYS:NZ	1.94	0.82
32:A8:16:ILE:HA	32:A8:22:VAL:HG22	1.61	0.82
2:AA:1063:G:C2	2:AA:1075:C:N3	2.46	0.82
2:AA:1853:A:H2'	2:AA:1854:A:C8	2.14	0.82
2:AA:2180:U:C2'	2:AA:2181:G:H8	1.93	0.82
2:AA:412:A:H61	2:AA:2411:A:H1'	1.44	0.82
3:AC:114:VAL:HG11	3:AC:153:ILE:HG12	1.62	0.82
7:AG:45:THR:HA	7:AG:83:PHE:HZ	1.43	0.82
8:AH:41:THR:HB	8:AH:52:THR:OG1	1.79	0.82
2:AA:2093:G:H5'	10:AK:25:TYR:CD1	2.14	0.82
10:AK:21:VAL:CB	10:AK:26:ALA:HB2	2.09	0.82
12:AM:23:ALA:HA	12:AM:26:VAL:CG2	2.08	0.82
15:AP:56:ILE:HD11	15:AP:115:SER:HB3	1.59	0.82
19:AT:6:LYS:HB3	19:AT:27:ALA:C	1.97	0.82
2:AA:338:G:OP2	20:AU:21:LYS:HG3	1.79	0.82
20:AU:51:LEU:HA	20:AU:97:ARG:NH2	1.92	0.82
20:AU:81:LYS:HG2	20:AU:82:THR:H	1.43	0.82
20:AU:57:GLY:CA	20:AU:97:ARG:HH22	1.90	0.82
34:BA:987:G:C2'	34:BA:988:G:H5'	2.10	0.82
37:BE:118:LEU:HD12	37:BE:145:LEU:HG	1.59	0.82
38:BF:19:GLU:HA	38:BF:54:ARG:HH21	0.77	0.82
39:BG:8:VAL:CG1	39:BG:11:LEU:HD12	2.09	0.82
40:BH:65:ASN:HD21	40:BH:136:MET:CE	1.90	0.82
43:BK:6:ILE:HD11	43:BK:85:ARG:CD	2.09	0.82
48:BP:92:HIS:CG	48:BP:98:VAL:HG21	2.15	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1040:C:H2'	2:AA:1040:C:O2	1.79	0.82
2:AA:431:U:H3'	2:AA:431:U:C6	2.14	0.82
2:AA:2623:G:H21	29:A5:22:HIS:HE1	1.24	0.82
2:AA:1729:A:N6	2:AA:1731:G:O6	2.12	0.82
2:AA:2137:C:H3'	2:AA:2138:C:C5	2.14	0.82
2:AA:2314:C:H2'	2:AA:2315:G:H8	1.44	0.82
2:AA:273(D):C:N4	2:AA:363(B):G:H1	1.78	0.82
2:AA:388:G:C2'	2:AA:390:A:N7	2.38	0.82
2:AA:523:C:O2'	2:AA:524:U:H5'	1.78	0.82
2:AA:566:U:C5	2:AA:567:A:N7	2.47	0.82
3:AC:115:ALA:HB2	3:AC:138:PRO:HG2	1.60	0.82
10:AK:4:ILE:HD11	10:AK:39:ALA:HA	1.59	0.82
20:AU:77:VAL:HG12	20:AU:89:ARG:HD2	1.60	0.82
21:AV:95:SER:OG	21:AV:122:ILE:HG12	1.80	0.82
22:AW:3:LEU:O	22:AW:4:HIS:HB2	1.80	0.82
34:BA:536:C:C2'	34:BA:537:G:H5'	2.08	0.82
34:BA:769:G:O2'	34:BA:770:C:H5'	1.80	0.82
34:BA:778:G:O2'	34:BA:779:C:H5'	1.79	0.82
34:BA:987:G:H2'	34:BA:988:G:H5'	1.60	0.82
37:BE:97:TRP:HZ2	37:BE:102:LEU:HD13	1.44	0.82
43:BK:100:ILE:HB	43:BK:125:ARG:HH21	1.45	0.82
44:BL:17:VAL:HG13	44:BL:63:ILE:CG1	2.09	0.82
34:BA:676:A:O2'	46:BN:115:PRO:HG3	1.79	0.82
34:BA:1226:C:H5''	48:BP:103:THR:HB	1.61	0.82
52:BT:57:VAL:HB	52:BT:75:ARG:O	1.77	0.82
52:BT:89:LEU:O	52:BT:92:ARG:HB3	1.77	0.82
10:AK:94:THR:HG23	10:AK:97:GLN:H	1.44	0.82
2:AA:1510:A:H3'	2:AA:1511:A:C8	2.15	0.82
7:AG:90:LEU:HD22	48:BP:3:ARG:NH1	1.94	0.82
37:BE:10:LEU:HD23	37:BE:11:LEU:H	1.44	0.82
27:A3:28:GLY:HA3	27:A3:60:PHE:HB3	1.62	0.82
28:A4:54:GLY:O	28:A4:55:ARG:HG3	1.79	0.82
32:A8:21:LYS:HA	32:A8:57:ARG:HH21	1.44	0.82
2:AA:1287:A:H8	24:A0:104:ARG:HH11	1.28	0.82
2:AA:1557:C:H3'	2:AA:1558:A:H5''	1.61	0.82
2:AA:1605:C:H2'	2:AA:1606:G:O4'	1.79	0.82
2:AA:1780:A:H3'	2:AA:1781:C:H5''	1.61	0.82
2:AA:2226:C:N3	2:AA:2227:A:H1'	1.94	0.82
2:AA:2319:G:O5'	2:AA:2320:A:OP1	1.97	0.82
2:AA:352:G:O5'	2:AA:352:G:H8	1.62	0.82
2:AA:422:A:N3	2:AA:422:A:H2'	1.93	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:455:C:H4'	2:AA:456:C:OP1	1.80	0.82
2:AA:709:U:H2'	2:AA:710:G:H8	1.42	0.82
1:AB:80:U:HO2'	2:AA:918:A:H8	1.26	0.82
4:AD:60:GLN:N	4:AD:62:ARG:NH1	2.27	0.82
7:AG:81:GLU:O	7:AG:85:GLN:HG3	1.78	0.82
8:AH:18:VAL:HG21	8:AH:44:VAL:HG11	1.61	0.82
12:AM:5:GLU:CA	12:AM:109:TYR:HE2	1.89	0.82
12:AM:19:MET:HG2	12:AM:132:LEU:HD21	1.61	0.82
13:AN:63:VAL:HG23	13:AN:84:CYS:CB	2.10	0.82
13:AN:71:ARG:C	13:AN:73:ASP:H	1.80	0.82
15:AP:50:VAL:HG22	15:AP:147:VAL:CG1	2.08	0.82
23:AX:18:ASP:O	23:AX:21:ALA:HB3	1.79	0.82
34:BA:1196:U:H5'	34:BA:1197:G:H5'	1.61	0.82
34:BA:1338:G:H21	35:BC:41:U:C1'	1.92	0.82
34:BA:1425:U:O2'	34:BA:1426:C:H5'	1.78	0.82
34:BA:1403:C:H1'	34:BA:1500:A:N1	1.94	0.82
34:BA:19:C:H2'	34:BA:20:U:H6	1.44	0.82
34:BA:783:C:H42	34:BA:799:G:H1	1.24	0.82
35:BC:72:C:H2'	35:BC:73:A:H8	1.42	0.82
37:BE:115:LEU:CD2	37:BE:149:LEU:HD13	2.09	0.82
37:BE:149:LEU:O	37:BE:152:PHE:N	2.11	0.82
47:BO:85:ILE:CD1	47:BO:98:TYR:CB	2.52	0.82
52:BT:58:GLU:OE1	52:BT:75:ARG:HG2	1.79	0.82
54:BV:13:ASP:HA	54:BV:16:LEU:HB2	1.62	0.82
10:AK:83:ALA:HB3	10:AK:147:GLU:HG2	1.62	0.82
24:A0:113:LEU:HD13	24:A0:114:VAL:N	1.94	0.82
24:A0:52:ILE:HD13	24:A0:94:TYR:CB	2.09	0.82
27:A3:14:ARG:H	27:A3:14:ARG:HH11	1.28	0.82
2:AA:1275:A:O2'	2:AA:1276:A:O5'	1.96	0.82
2:AA:1472:A:H2'	2:AA:1473:G:H8	1.44	0.82
2:AA:1650:G:O2'	2:AA:1651:G:C5'	2.26	0.82
2:AA:1822:G:H2'	2:AA:1823:G:H8	1.43	0.82
2:AA:2259:G:N2	2:AA:2282:G:C5	2.46	0.82
2:AA:2579:C:H4'	5:AE:231:TRP:CH2	2.15	0.82
2:AA:2734:A:H61	5:AE:316:ARG:HH22	1.26	0.82
2:AA:530:G:H1'	2:AA:532:A:OP2	1.79	0.82
2:AA:616:A:N3	2:AA:617:G:N2	2.27	0.82
2:AA:806:C:O2'	2:AA:2445:G:H4'	1.79	0.82
2:AA:95:G:H5'	22:AW:41:GLU:OE1	1.78	0.82
3:AC:6:ARG:HH12	3:AC:35:ALA:HA	1.43	0.82
5:AE:268:LEU:HD23	5:AE:269:ILE:N	1.95	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:315:VAL:HG12	5:AE:316:ARG:N	1.95	0.82
2:AA:1084:A:P	9:AI:39:VAL:H	2.01	0.82
2:AA:637:A:OP2	14:AO:109:LEU:HD22	1.80	0.82
16:AQ:19:ASP:O	16:AQ:21:HIS:N	2.13	0.82
34:BA:1165:C:N4	34:BA:1171:G:H1	1.77	0.82
34:BA:1201:A:H4'	34:BA:1202:G:H5''	1.61	0.82
34:BA:130:A:H2	34:BA:263:A:C2	1.97	0.82
34:BA:1533:C:H2'	34:BA:1534:A:H4'	1.61	0.82
34:BA:15:G:H1	34:BA:920:U:H3	1.25	0.82
37:BE:88:ALA:HA	37:BE:222:ILE:HD13	1.61	0.82
37:BE:25:ASN:O	37:BE:27:LYS:N	2.12	0.82
37:BE:74:LYS:HE2	37:BE:76:GLN:HB2	1.60	0.82
44:BL:114:TYR:CB	45:BM:60:ARG:HH12	1.91	0.82
46:BN:21:ILE:HD11	46:BN:82:VAL:CG1	2.08	0.82
46:BN:28:THR:O	46:BN:44:SER:HB2	1.78	0.82
2:AA:2466:C:OP1	33:A9:5:SER:O	1.97	0.82
2:AA:146:G:C2	2:AA:147:U:H1'	2.14	0.82
2:AA:1466:G:H2'	2:AA:1547:C:H41	1.44	0.82
2:AA:1819:A:H1'	2:AA:1821:A:C5	2.14	0.82
2:AA:917:A:N7	2:AA:2268:A:N6	2.28	0.82
2:AA:2575:C:O2'	5:AE:237:ASN:ND2	2.10	0.82
2:AA:2590:A:H2'	2:AA:2591:C:C6	2.13	0.82
2:AA:73:A:H2'	2:AA:74:A:OP2	1.78	0.82
1:AB:60:C:H2'	1:AB:61:G:H8	1.45	0.82
4:AD:183:ILE:HG22	4:AD:184:LEU:H	1.42	0.82
4:AD:85:ASN:N	4:AD:85:ASN:ND2	2.25	0.82
2:AA:911:A:C5	15:AP:16:ARG:HG2	2.14	0.82
16:AQ:100:ALA:HB3	16:AQ:127:LEU:HD21	1.60	0.82
18:AS:25:ARG:O	18:AS:27:LYS:N	2.11	0.82
20:AU:71:VAL:HG21	20:AU:92:ASP:HA	1.58	0.82
34:BA:1144:G:N2	34:BA:1146:A:N6	2.28	0.82
35:BB:6:U:C2	35:BB:68:U:C2	2.67	0.82
40:BH:56:GLN:H	40:BH:56:GLN:HE21	1.26	0.82
43:BK:114:THR:HG23	43:BK:119:LEU:HD23	1.61	0.82
43:BK:123:GLU:HA	43:BK:126:LYS:HE3	1.59	0.82
46:BN:100:ALA:C	46:BN:102:GLY:H	1.82	0.82
48:BP:34:LEU:HD23	48:BP:39:ILE:CG1	2.09	0.82
51:BS:58:TYR:CD1	51:BS:59:TRP:N	2.48	0.82
54:BV:77:THR:HG22	54:BV:78:ARG:HG3	1.60	0.82
25:A1:78:THR:HB	25:A1:117:ARG:HH21	1.42	0.82
26:A2:11:GLN:CD	26:A2:22:VAL:HG23	2.00	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:23:LEU:CD1	29:A5:25:LEU:HB3	2.09	0.82
30:A6:19:GLY:CA	30:A6:42:PRO:HG3	2.09	0.82
2:AA:1018:C:H2'	2:AA:1019:U:H5''	1.62	0.82
2:AA:1011:G:N1	2:AA:1150:C:O2	2.13	0.82
2:AA:1183:G:O2'	2:AA:1184:G:O4'	1.96	0.82
2:AA:1413:G:H1	2:AA:1589:C:H42	1.25	0.82
2:AA:1364:G:O5'	2:AA:1809:A:N7	2.12	0.82
2:AA:2424:C:O2	2:AA:2424:C:H2'	1.79	0.82
2:AA:2553:G:H3'	2:AA:2553:G:C8	2.15	0.82
2:AA:270(L):U:H4'	2:AA:270(M):U:OP1	1.79	0.82
2:AA:2845:G:O6	2:AA:2871:C:N3	2.12	0.82
2:AA:342:G:H2'	2:AA:343:C:C5	2.15	0.82
2:AA:59:U:H3'	2:AA:60:G:H5''	1.60	0.82
3:AC:116:THR:HG23	3:AC:149:ILE:HD12	1.61	0.82
3:AC:126:LYS:HG2	3:AC:127:LEU:HG	1.62	0.82
5:AE:102:ASP:O	5:AE:103:GLU:HG3	1.80	0.82
5:AE:45:LYS:CB	5:AE:305:LYS:HA	2.08	0.82
6:AF:215:ALA:HA	6:AF:239:ALA:HA	1.61	0.82
6:AF:115:LEU:HB2	6:AF:246:ARG:HH12	1.44	0.82
13:AN:3:GLN:HG2	13:AN:4:GLN:N	1.95	0.82
23:AX:38:GLU:H	23:AX:38:GLU:CD	1.81	0.82
34:BA:1192:C:H6	34:BA:1192:C:C3'	1.91	0.82
34:BA:1293:G:H2'	34:BA:1294:G:C8	2.14	0.82
34:BA:1475:G:H2'	34:BA:1476:G:H8	1.39	0.82
34:BA:673:G:H2'	34:BA:674:G:C8	2.15	0.82
35:BC:22:G:H2'	35:BC:23:A:H8	1.41	0.82
37:BE:25:ASN:HD21	37:BE:27:LYS:HB2	1.45	0.82
38:BF:10:PHE:HE1	38:BF:178:LEU:HD22	1.44	0.82
38:BF:182:ILE:HG23	38:BF:203:PHE:CA	2.09	0.82
40:BH:78:HIS:HB3	43:BK:107:LEU:CD2	2.10	0.82
45:BM:30:SER:OG	45:BM:81:THR:HA	1.79	0.82
48:BP:14:ARG:HG3	48:BP:16:ASP:OD2	1.80	0.82
48:BP:54:VAL:O	48:BP:57:ARG:HB3	1.80	0.82
51:BS:19:ILE:HD12	51:BS:38:TYR:N	1.95	0.82
41:BI:60:PHE:CZ	53:BU:78:LEU:HD21	2.15	0.82
55:BW:50:GLU:H	55:BW:99:LEU:HD12	1.45	0.82
2:AA:2840:C:H5''	24:A0:53:HIS:CD2	2.15	0.82
25:A1:11:ARG:HG2	25:A1:12:ARG:H	1.45	0.82
28:A4:46:GLU:OE1	28:A4:54:GLY:HA3	1.80	0.82
28:A4:7:PRO:HD2	28:A4:56:VAL:HG21	1.59	0.82
2:AA:1111:A:H5''	2:AA:1112:G:OP1	1.78	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1260:G:H2'	2:AA:1261:C:H5'	1.62	0.82
2:AA:146:G:O2'	2:AA:147:U:H5'	1.79	0.82
2:AA:1417:C:H42	2:AA:1581:G:H22	0.89	0.82
2:AA:2416:C:H2'	2:AA:2417:C:C5'	2.09	0.82
2:AA:2051:A:N7	2:AA:2614:A:N7	2.27	0.82
2:AA:271:G:N1	2:AA:404:C:N4	2.28	0.82
2:AA:308:G:N2	2:AA:329:G:N2	2.28	0.82
2:AA:374:A:H2'	2:AA:375:C:O4'	1.78	0.82
2:AA:610:C:H42	2:AA:618(A):C:N4	1.76	0.82
2:AA:635:C:H2'	2:AA:636:G:C8	2.15	0.82
2:AA:903:C:H2'	2:AA:904:C:C6	2.14	0.82
2:AA:1799:G:O6	4:AD:177:SER:HB2	1.79	0.82
16:AQ:38:LYS:HZ3	16:AQ:110:THR:HG21	1.44	0.82
18:AS:17:VAL:O	18:AS:20:VAL:HB	1.78	0.82
34:BA:22:G:H2'	34:BA:23:C:C1'	2.09	0.82
34:BA:300:A:H2'	34:BA:301:G:H5'	1.60	0.82
34:BA:922:G:O2'	34:BA:923:A:H5'	1.79	0.82
34:BA:952:U:C5'	34:BA:972:C:H41	1.93	0.82
39:BG:43:HIS:CB	39:BG:46:LYS:HG3	2.10	0.82
42:BJ:69:VAL:HG21	42:BJ:134:ALA:HB1	1.62	0.82
47:BO:6:THR:OG1	47:BO:9:GLN:HG3	1.78	0.82
47:BO:90:VAL:HG21	47:BO:96:VAL:CG1	2.08	0.82
26:A2:14:VAL:HG22	26:A2:19:VAL:HG21	1.61	0.82
2:AA:16:G:H4'	29:A5:18:MET:HE1	1.62	0.82
2:AA:1024:G:H3'	2:AA:1025:G:C5'	2.09	0.82
2:AA:740:U:H4'	2:AA:1784:A:OP1	1.80	0.82
2:AA:2334:G:H2'	2:AA:2335:A:C5'	2.09	0.82
2:AA:304:G:O2'	2:AA:305:U:H5'	1.80	0.82
2:AA:775:G:H4'	2:AA:777:A:C4	2.15	0.82
2:AA:861:A:H62	2:AA:916:G:N2	1.75	0.82
3:AC:10:LEU:HG	3:AC:220:PRO:HG2	1.61	0.82
2:AA:2123:G:O2'	3:AC:133:PRO:HA	1.80	0.82
8:AH:53:ARG:HB3	8:AH:56:ASP:OD1	1.79	0.82
9:AI:35:ALA:CB	9:AI:36:PRO:HD3	2.10	0.82
15:AP:133:GLU:HG3	15:AP:134:PHE:CD1	2.13	0.82
15:AP:18:GLU:HG2	15:AP:23:ILE:HD11	1.62	0.82
18:AS:12:ILE:O	18:AS:101:SER:OG	1.96	0.82
34:BA:1074:G:H2'	34:BA:1075:C:O4'	1.78	0.82
34:BA:1119:C:H2'	34:BA:1120:G:H8	1.45	0.82
34:BA:1479:C:O2'	34:BA:1480:G:H5'	1.80	0.82
34:BA:297:G:N2	34:BA:300:A:OP2	2.12	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:646:U:H2'	34:BA:647:C:H6	1.45	0.82
34:BA:674:G:O6	34:BA:716:A:N6	2.12	0.82
34:BA:909:A:H2'	34:BA:910:C:H5'	1.60	0.82
35:BB:75:C:C6	35:BB:76:A:H2	1.97	0.82
37:BE:213:LEU:HD22	37:BE:214:ILE:CD1	2.09	0.82
38:BF:157:ILE:HD12	38:BF:164:ARG:NE	1.95	0.82
43:BK:123:GLU:HG2	43:BK:124:ALA:N	1.95	0.82
34:BA:826:C:C4'	43:BK:12:ARG:HG2	2.10	0.82
46:BN:50:TYR:CD1	46:BN:54:ARG:HB3	2.14	0.82
46:BN:58:PRO:CA	46:BN:90:GLY:HA3	2.09	0.82
47:BO:38:THR:HG23	47:BO:39:VAL:HG23	1.62	0.82
34:BA:1226:C:C5'	48:BP:103:THR:HB	2.10	0.82
49:BQ:23:ARG:HA	49:BQ:30:ALA:HA	1.60	0.82
2:AA:1603:A:N1	2:AA:1604:C:N4	2.27	0.81
2:AA:1991:U:C3'	2:AA:1991:U:C6	2.56	0.81
2:AA:2007:C:H2'	2:AA:2008:C:H5'	1.62	0.81
2:AA:2484:G:N2	2:AA:2485:G:H1'	1.95	0.81
2:AA:2644:G:N1	2:AA:2645:G:C2	2.47	0.81
2:AA:530:G:H1	2:AA:2021:C:H5'	1.45	0.81
2:AA:656:G:C8	2:AA:656:G:OP2	2.33	0.81
2:AA:711:G:N1	2:AA:720:C:N4	2.13	0.81
2:AA:85:G:H1	2:AA:97:C:H42	1.27	0.81
2:AA:871:U:H4'	15:AP:90:PHE:HE2	1.42	0.81
3:AC:43:VAL:HG22	3:AC:214:VAL:HG22	1.60	0.81
2:AA:1105:U:O2	9:AI:28:LYS:HA	1.79	0.81
12:AM:41:ALA:HB1	12:AM:75:PRO:CB	2.10	0.81
2:AA:872:A:O2'	15:AP:31:PHE:CB	2.29	0.81
2:AA:2320:A:N6	16:AQ:9:PRO:CB	2.43	0.81
23:AX:31:LEU:HD13	23:AX:32:GLN:HG3	1.60	0.81
34:BA:1007:C:N4	34:BA:1022:G:N1	2.27	0.81
34:BA:1160:G:H2'	34:BA:1160:G:N3	1.93	0.81
34:BA:1203:C:O5'	34:BA:1203:C:H6	1.62	0.81
34:BA:277:C:H5''	52:BT:68:ARG:CZ	2.10	0.81
34:BA:583:A:H2'	34:BA:584:G:C8	2.15	0.81
34:BA:80:G:O6	34:BA:89:C:N3	2.13	0.81
35:BB:18:G:C2	35:BB:57:G:N2	2.48	0.81
37:BE:23:ARG:HH11	37:BE:24:TRP:N	1.78	0.81
41:BI:37:VAL:HA	41:BI:65:VAL:CG1	2.07	0.81
43:BK:112:LEU:HD23	43:BK:113:SER:N	1.94	0.81
43:BK:98:LYS:H	43:BK:98:LYS:HZ2	1.24	0.81
46:BN:78:GLN:HA	46:BN:103:LEU:CD1	2.09	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:108:LEU:HD23	10:AK:109:LYS:N	1.93	0.81
35:BB:9:A:N1	35:BB:45:G:O6	2.13	0.81
2:AA:257:A:O5'	2:AA:257:A:H8	1.63	0.81
24:A0:79:LEU:CD2	24:A0:80:PHE:N	2.42	0.81
25:A1:8:ILE:O	25:A1:11:ARG:HG2	1.80	0.81
28:A4:14:ILE:C	28:A4:15:ILE:HD12	2.01	0.81
2:AA:2020:A:N7	29:A5:9:LYS:HE2	1.94	0.81
30:A6:29:ARG:HG2	30:A6:30:ASN:H	1.42	0.81
2:AA:1083:U:H5'	9:AI:40:ALA:HB2	1.62	0.81
2:AA:1126:A:H5''	2:AA:1127:A:OP1	1.79	0.81
2:AA:1964:G:O2'	2:AA:1965:C:OP1	1.98	0.81
2:AA:2125:G:H22	2:AA:2174:C:N4	1.76	0.81
2:AA:2396:G:H2'	2:AA:2396:G:N3	1.95	0.81
2:AA:2576:G:OP1	2:AA:2577:A:OP1	1.96	0.81
2:AA:2623:G:H21	29:A5:22:HIS:CE1	1.97	0.81
2:AA:301:G:OP1	2:AA:301:G:H4'	1.79	0.81
2:AA:697:C:C2'	2:AA:698:C:H5''	2.09	0.81
2:AA:740:U:H2'	2:AA:741:G:H8	1.44	0.81
3:AC:135:GLY:O	3:AC:136:LEU:HD23	1.79	0.81
4:AD:210:LYS:HA	4:AD:213:LYS:CD	2.10	0.81
5:AE:77:PRO:CG	5:AE:186:GLU:HB2	2.09	0.81
20:AU:80:GLU:HG2	20:AU:86:GLU:HG2	1.62	0.81
34:BA:1317:C:H2'	34:BA:1318:A:O4'	1.80	0.81
34:BA:1507:A:H2'	34:BA:1508:G:H8	1.45	0.81
34:BA:914:A:H2'	34:BA:915:A:H8	1.44	0.81
35:BC:17:U:C4	35:BC:19:G:H8	1.98	0.81
37:BE:55:PHE:CE2	37:BE:218:ALA:HA	2.12	0.81
37:BE:91:PRO:HG2	37:BE:155:LEU:CB	2.07	0.81
39:BG:165:MET:SD	39:BG:165:MET:O	2.38	0.81
43:BK:134:ILE:HG22	43:BK:135:CYS:N	1.93	0.81
43:BK:40:ALA:O	43:BK:43:GLY:N	2.12	0.81
48:BP:48:LEU:HD23	48:BP:52:GLU:HB2	1.62	0.81
18:AS:68:ARG:HH21	18:AS:110:LYS:HG2	1.45	0.81
26:A2:51:ALA:HA	26:A2:54:TYR:CD1	2.15	0.81
31:A7:4:THR:N	31:A7:6:GLN:HE22	1.79	0.81
32:A8:22:VAL:CG1	32:A8:23:MET:N	2.43	0.81
2:AA:1005:C:H2'	2:AA:1006:C:H6	1.46	0.81
2:AA:1046:A:C4	9:AI:32:THR:HG21	2.15	0.81
2:AA:1304:C:H2'	2:AA:1305:C:O5'	1.79	0.81
2:AA:1356:G:H2'	2:AA:1357:U:C6	2.14	0.81
2:AA:1454:U:H2'	2:AA:1454:U:O2	1.79	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1576:U:H5	2:AA:1577:C:C4	1.98	0.81
2:AA:1632:A:O5'	2:AA:1632:A:H8	1.63	0.81
2:AA:1953:A:H62	2:AA:2550:G:H4'	1.45	0.81
2:AA:529:A:H62	2:AA:2042:A:H2	1.27	0.81
2:AA:2496:C:H5''	2:AA:2497:A:OP2	1.80	0.81
2:AA:253:C:H2'	2:AA:254:G:C5'	2.10	0.81
2:AA:449:A:C2	2:AA:450:G:C4	2.68	0.81
2:AA:541:C:H2'	2:AA:542:C:H6	1.45	0.81
2:AA:608:A:C2'	2:AA:609:A:H5'	2.11	0.81
2:AA:861:A:C2'	2:AA:862:G:H5'	2.08	0.81
4:AD:71:ASP:OD1	4:AD:118:GLY:HA3	1.80	0.81
6:AF:6:TYR:CD2	6:AF:140:VAL:HA	2.15	0.81
6:AF:84:VAL:O	6:AF:86:GLY:N	2.12	0.81
15:AP:63:ALA:HA	15:AP:70:ARG:HH22	1.45	0.81
2:AA:2378:A:H1'	16:AQ:26:LEU:HD21	1.62	0.81
16:AQ:56:ASP:O	16:AQ:57:THR:HG23	1.79	0.81
19:AT:55:GLN:HG2	19:AT:56:ASN:N	1.93	0.81
21:AV:98:VAL:HG11	21:AV:136:VAL:HB	1.60	0.81
34:BA:1367:C:OP1	44:BL:114:TYR:HA	1.81	0.81
34:BA:1407:C:O2'	34:BA:1408:A:H5'	1.79	0.81
34:BA:791:G:N1	34:BA:1498:U:OP1	2.12	0.81
34:BA:483:C:O2'	34:BA:484:G:OP1	1.96	0.81
34:BA:509:A:N3	34:BA:543:C:O2'	2.13	0.81
34:BA:599:C:N4	34:BA:639:G:H1	1.78	0.81
34:BA:714:G:H1'	34:BA:777:A:N7	1.95	0.81
34:BA:933:G:H2'	34:BA:934:C:H5'	1.63	0.81
35:BC:20:G:H3'	35:BC:20:G:N3	1.94	0.81
37:BE:187:LEU:HD21	37:BE:203:GLY:O	1.78	0.81
38:BF:19:GLU:HG2	38:BF:54:ARG:NE	1.96	0.81
43:BK:80:ILE:N	43:BK:80:ILE:HD12	1.95	0.81
46:BN:33:THR:C	46:BN:40:ILE:HD11	2.00	0.81
46:BN:92:GLU:OE2	46:BN:96:ARG:HG3	1.80	0.81
2:AA:1021:A:C2	2:AA:1122:G:H5''	2.15	0.81
2:AA:1134:G:H3'	2:AA:1136:G:OP2	1.79	0.81
2:AA:1022:G:C2	2:AA:1139:G:C2	2.67	0.81
2:AA:1863:G:H2'	2:AA:1864:U:H6	1.42	0.81
2:AA:1913:A:N1	2:AA:1917:U:C4	2.48	0.81
2:AA:248:G:H21	2:AA:2431:U:C4'	1.93	0.81
2:AA:2623:G:N2	29:A5:22:HIS:CE1	2.48	0.81
2:AA:270(H):C:N4	2:AA:270(R):G:C6	2.48	0.81
2:AA:588:U:C5	2:AA:589:C:H5	1.99	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:715:G:H2'	2:AA:716:A:C8	2.14	0.81
3:AC:193:ILE:HG21	3:AC:226:PRO:O	1.79	0.81
4:AD:235:PRO:O	4:AD:236:PHE:HB2	1.80	0.81
6:AF:214:THR:O	6:AF:216:SER:N	2.12	0.81
7:AG:56:ARG:NE	7:AG:65:GLU:HB2	1.94	0.81
12:AM:19:MET:HB3	12:AM:46:ILE:CD1	2.10	0.81
14:AO:81:VAL:CG1	14:AO:116:HIS:NE2	2.44	0.81
15:AP:46:VAL:CB	15:AP:124:ALA:O	2.27	0.81
15:AP:82:LYS:NZ	15:AP:84:ARG:NE	2.28	0.81
20:AU:21:LYS:HZ1	20:AU:22:GLN:NE2	1.74	0.81
20:AU:73:HIS:CD2	20:AU:88:PRO:HB2	2.14	0.81
21:AV:163:ASP:CG	21:AV:164:PRO:HD2	2.01	0.81
34:BA:153:C:H2'	34:BA:154:C:H6	1.46	0.81
34:BA:198:G:O2'	34:BA:199:G:C5'	2.28	0.81
34:BA:285:G:O2'	34:BA:286:G:H5'	1.79	0.81
35:BB:49:C:N4	35:BB:65:G:O6	2.13	0.81
35:BB:60:C:H5'	35:BB:61:C:P	2.19	0.81
38:BF:76:VAL:HG11	38:BF:103:VAL:HG11	1.60	0.81
38:BF:190:ARG:NH1	38:BF:190:ARG:HB3	1.95	0.81
40:BH:114:GLY:O	40:BH:115:VAL:HG13	1.81	0.81
41:BI:75:LEU:O	41:BI:79:LEU:HG	1.80	0.81
42:BJ:129:GLU:HG3	42:BJ:131:LYS:HE2	1.61	0.81
43:BK:46:LYS:HZ2	43:BK:64:LYS:HA	1.43	0.81
46:BN:18:ARG:HH21	46:BN:37:GLY:HA2	1.45	0.81
47:BO:114:LYS:O	47:BO:117:ARG:HG3	1.80	0.81
49:BQ:29:ARG:HB3	49:BQ:40:CYS:HB3	1.61	0.81
51:BS:26:ARG:HE	51:BS:31:LYS:HB3	1.44	0.81
35:BB:41:U:C2'	35:BB:42:G:O4'	2.26	0.81
35:BB:23:A:N1	35:BB:24:G:C6	2.48	0.81
37:BE:10:LEU:HD23	37:BE:11:LEU:N	1.95	0.81
2:AA:997:G:OP1	25:A1:92:ARG:CB	2.29	0.81
2:AA:973:A:N6	26:A2:81:ARG:H	1.78	0.81
2:AA:1270:C:H1'	2:AA:1325:G:C5	2.16	0.81
2:AA:1444:G:O3'	2:AA:444(A):A:H8	1.63	0.81
2:AA:162:U:H4'	2:AA:171:G:H21	1.42	0.81
2:AA:1939:U:C1'	2:AA:2592:G:C4'	2.58	0.81
2:AA:203:C:OP1	2:AA:204:A:H3'	1.79	0.81
2:AA:2123:G:O6	2:AA:2175:C:N3	2.13	0.81
2:AA:2469:A:H5'	2:AA:2469:A:C8	2.12	0.81
2:AA:2557:G:H2'	2:AA:2558:C:H6	1.42	0.81
2:AA:1129:A:C2	2:AA:2570:G:C1'	2.63	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2581:G:N1	2:AA:2610:C:C6	2.48	0.81
2:AA:2595:G:C2	2:AA:2597:G:O5'	2.33	0.81
2:AA:638:G:H2'	2:AA:639:U:O4'	1.81	0.81
1:AB:97:G:N2	2:AA:918:A:O2'	2.13	0.81
6:AF:2:GLU:O	6:AF:18:LEU:HD21	1.81	0.81
9:AJ:64:LYS:HD3	9:AJ:126:GLU:OE2	1.80	0.81
9:AJ:85:LEU:HD11	11:AL:69:ILE:HG13	1.62	0.81
12:AM:12:VAL:C	12:AM:38:VAL:HG13	2.01	0.81
13:AN:12:ASP:HB2	13:AN:95:GLY:HA3	1.62	0.81
13:AN:7:ARG:HB3	13:AN:44:LYS:CE	2.11	0.81
14:AO:129:ALA:O	14:AO:133:VAL:HG23	1.79	0.81
16:AQ:27:LEU:HB2	16:AQ:33:ARG:HH22	1.42	0.81
18:AS:24:ILE:HG22	18:AS:35:ILE:HB	1.63	0.81
21:AV:13:LYS:HG2	21:AV:18:MET:HB3	1.61	0.81
23:AX:30:ARG:HH21	23:AX:33:GLN:HG3	1.42	0.81
34:BA:1113:C:O2'	34:BA:1114:C:H5'	1.80	0.81
34:BA:1408:A:C2	34:BA:1494:G:N3	2.48	0.81
34:BA:440:A:H61	34:BA:495:U:H5	1.26	0.81
34:BA:792:A:N3	34:BA:794:A:C6	2.48	0.81
34:BA:889:A:H5"	34:BA:890:G:OP1	1.80	0.81
35:BB:49:C:C4	35:BB:50:U:O4	2.33	0.81
34:BA:921:U:O2'	40:BH:19:MET:O	1.99	0.81
41:BI:41:GLU:HG3	41:BI:62:TRP:CE3	2.15	0.81
45:BM:15:THR:OG1	45:BM:94:VAL:HG23	1.81	0.81
48:BP:92:HIS:CD2	48:BP:98:VAL:HG11	2.16	0.81
50:BR:53:HIS:O	50:BR:56:LEU:HB3	1.80	0.81
50:BR:70:LEU:HD12	50:BR:70:LEU:C	2.01	0.81
53:BU:55:ARG:HA	53:BU:55:ARG:NH1	1.94	0.81
24:A0:36:THR:HG22	24:A0:40:LYS:HD3	1.62	0.81
2:AA:1227:A:OP1	25:A1:13:ARG:HD2	1.80	0.81
26:A2:33:VAL:O	26:A2:62:GLU:HA	1.81	0.81
2:AA:1528:A:C2	2:AA:1529:A:H1'	2.16	0.81
2:AA:1665:A:O2'	2:AA:1666:G:H5'	1.80	0.81
2:AA:1793:C:H42	2:AA:1825:A:N6	1.79	0.81
2:AA:2498:C:C2'	2:AA:2499:C:H5"	2.11	0.81
2:AA:264:C:O2'	2:AA:265:A:H5"	1.81	0.81
2:AA:2721:A:O2'	2:AA:2874:C:H5'	1.80	0.81
2:AA:338:G:P	2:AA:338:G:H3'	2.20	0.81
2:AA:383:U:HO2'	2:AA:384:U:H5	0.82	0.81
2:AA:1449:A:C2	2:AA:449(A):G:H1'	2.15	0.81
2:AA:552:G:O2'	2:AA:553:U:H5'	1.81	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:63:U:H3'	2:AA:63:U:C6	2.15	0.81
2:AA:815:C:H2'	2:AA:816:C:H6	1.46	0.81
2:AA:979:G:H3'	2:AA:979:G:C8	2.15	0.81
4:AD:117:SER:OG	4:AD:128:ALA:N	2.13	0.81
5:AE:216:ARG:HD3	5:AE:253:GLN:HA	1.60	0.81
2:AA:659:C:H5'	6:AF:103:ASN:CG	2.00	0.81
2:AA:2316:C:C4'	7:AG:151:ILE:HD11	2.11	0.81
9:AI:64:LYS:HD3	9:AI:126:GLU:OE2	1.79	0.81
13:AN:106:LEU:N	13:AN:106:LEU:HD23	1.96	0.81
20:AU:103:LEU:HD22	20:AU:109:GLU:HA	1.63	0.81
22:AW:20:LEU:CD2	22:AW:23:LEU:HD12	2.03	0.81
34:BA:190(J):U:O2'	34:BA:190(K):G:H5'	1.80	0.81
34:BA:290:C:H2'	34:BA:291:C:H5'	1.63	0.81
34:BA:112:G:O2'	34:BA:354:G:O2'	1.97	0.81
34:BA:611:A:N6	34:BA:629:G:H1	1.79	0.81
34:BA:878:G:O4'	43:BK:3:THR:HG21	1.81	0.81
35:BB:62:A:C2	35:BB:63:C:C2	2.68	0.81
38:BF:10:PHE:CZ	38:BF:178:LEU:HA	2.16	0.81
38:BF:19:GLU:CG	38:BF:54:ARG:HE	1.91	0.81
39:BG:98:GLU:O	39:BG:100:ARG:N	2.14	0.81
39:BG:68:TYR:O	39:BG:70:ILE:HG12	1.81	0.81
34:BA:15:G:H4'	40:BH:24:ARG:HH12	1.45	0.81
55:BW:50:GLU:HB2	55:BW:99:LEU:HD12	1.61	0.81
25:A1:110:VAL:O	25:A1:114:ARG:HG3	1.81	0.81
2:AA:770:G:H5'	31:A7:10:ARG:HH11	1.45	0.81
2:AA:1155:A:H2'	2:AA:1156:A:H5''	1.60	0.81
2:AA:1301:A:H5'	2:AA:1607:C:H41	1.45	0.81
2:AA:137:C:OP2	2:AA:137:C:O4'	1.99	0.81
2:AA:1479:G:N2	2:AA:1515:C:C6	2.49	0.81
2:AA:1571:A:C3'	2:AA:1571:A:N3	2.43	0.81
2:AA:1845:G:O2'	2:AA:1846:G:H5'	1.80	0.81
2:AA:1913:A:N7	2:AA:1918:A:C6	2.49	0.81
2:AA:2120:G:H1	2:AA:2178:C:N4	1.79	0.81
2:AA:218:A:N1	2:AA:235:U:H4'	1.94	0.81
2:AA:2458:G:O6	2:AA:2490:G:H2'	1.79	0.81
2:AA:2606:C:H5'	2:AA:2606:C:H6	1.45	0.81
2:AA:2612:C:O2'	2:AA:2613:U:OP1	1.98	0.81
2:AA:270(I):G:H2'	2:AA:270(J):G:O4'	1.80	0.81
2:AA:363(A):A:H2'	2:AA:363(B):G:H5'	1.63	0.81
2:AA:568:U:H2'	2:AA:568:U:O2	1.78	0.81
2:AA:804:A:O2'	2:AA:806:C:N3	2.12	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:7:G:H2'	2:AA:8:A:C8	2.15	0.81
1:AB:37:C:N4	1:AB:44:G:H22	1.79	0.81
2:AA:1820:U:O2	4:AD:200:THR:HG23	1.80	0.81
4:AD:82:TYR:HA	4:AD:89:ASN:HB3	1.63	0.81
2:AA:605:C:H3'	6:AF:105:LYS:HZ2	1.40	0.81
11:AL:58:ILE:HG23	11:AL:67:THR:HA	1.63	0.81
12:AM:46:ILE:HG22	12:AM:53:ILE:HD11	1.62	0.81
15:AP:86:ARG:NH1	15:AP:120:HIS:HD2	1.77	0.81
15:AP:28:ILE:HD11	15:AP:89:PRO:HG3	1.62	0.81
20:AU:18:GLU:O	20:AU:21:LYS:HG2	1.81	0.81
21:AV:7:PRO:HG2	21:AV:8:ARG:H	1.44	0.81
34:BA:1479:C:H2'	34:BA:1480:G:C5'	2.10	0.81
34:BA:225:C:H2'	34:BA:226:G:H5'	1.63	0.81
34:BA:334:C:H2'	34:BA:335:C:H6	1.42	0.81
34:BA:597:G:N2	43:BK:94:TYR:CE2	2.42	0.81
35:BB:74:C:C4	35:BB:75:C:C1'	2.60	0.81
34:BA:1400:C:H1'	35:BC:34:G:H22	1.46	0.81
37:BE:178:ARG:NH2	37:BE:196:LEU:O	2.13	0.81
38:BF:59:ARG:CZ	38:BF:64:VAL:HG22	2.11	0.81
39:BG:98:GLU:OE1	39:BG:98:GLU:HA	1.80	0.81
40:BH:132:ALA:O	40:BH:135:THR:HB	1.81	0.81
42:BJ:103:TRP:HZ2	42:BJ:141:VAL:HG21	1.46	0.81
42:BJ:43:PHE:O	42:BJ:46:ALA:HB3	1.81	0.81
45:BM:5:ARG:NH1	45:BM:5:ARG:HB2	1.96	0.81
46:BN:32:ILE:O	46:BN:40:ILE:HG13	1.80	0.81
3:AC:181:PRO:HD2	3:AC:184:LYS:CD	2.11	0.81
45:BM:22:LYS:CE	45:BM:90:LEU:HD12	2.11	0.81
32:A8:61:MET:O	32:A8:62:LEU:HB2	1.81	0.81
2:AA:1054:A:N3	9:AI:28:LYS:HE2	1.96	0.81
2:AA:1081:U:H5''	11:AL:123:ALA:HA	1.62	0.81
2:AA:1535:U:H5''	2:AA:1536:A:O4'	1.80	0.81
2:AA:1732:A:H2'	2:AA:1733:G:H5'	1.62	0.81
2:AA:2371:G:N2	2:AA:2372:G:C4	2.48	0.81
2:AA:2574:G:H2'	2:AA:2575:C:H6	1.38	0.81
2:AA:270(K):C:H3'	2:AA:270(L):U:O4'	1.81	0.81
2:AA:2713:A:C5'	2:AA:2714:G:OP2	2.29	0.81
2:AA:2845:G:O2'	2:AA:2846:G:H5'	1.81	0.81
2:AA:273(D):C:C4	2:AA:363(B):G:N1	2.48	0.81
2:AA:846:C:O2'	2:AA:847:U:P	2.38	0.81
2:AA:973:A:C6	26:A2:80:TYR:HA	2.15	0.81
4:AD:70:LYS:HG3	4:AD:70:LYS:O	1.78	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:81:VAL:HB	5:AE:100:TRP:CZ3	2.15	0.81
5:AE:39:GLN:HB2	5:AE:174:LEU:CD2	2.11	0.81
2:AA:2785:C:O3'	5:AE:99:VAL:HG13	1.80	0.81
11:AL:91:GLU:OE1	11:AL:94:ARG:HD2	1.80	0.81
12:AM:45:VAL:HG12	12:AM:46:ILE:N	1.96	0.81
12:AM:61:VAL:HG21	12:AM:139:LEU:HB2	0.86	0.81
16:AQ:65:ASP:C	16:AQ:66:LEU:HD12	2.00	0.81
34:BA:1323:G:H2'	34:BA:1324:A:C8	2.15	0.81
34:BA:21:G:H2'	34:BA:22:G:H8	1.46	0.81
34:BA:778:G:H2'	34:BA:779:C:H6	1.44	0.81
34:BA:973:G:H3'	34:BA:974:A:H5''	1.63	0.81
45:BM:35:SER:HB3	45:BM:73:ASP:O	1.79	0.81
46:BN:126:ARG:O	46:BN:128:ALA:N	2.12	0.81
46:BN:87:THR:HG22	46:BN:91:ARG:HH21	1.46	0.81
55:BW:75:ASN:HD22	55:BW:75:ASN:H	1.27	0.81
24:A0:20:LEU:HD13	24:A0:20:LEU:C	2.01	0.81
26:A2:20:ILE:HG23	26:A2:67:LYS:HZ2	1.46	0.81
29:A5:40:LYS:HE2	29:A5:46:CYS:HB2	1.61	0.81
29:A5:40:LYS:HZ2	29:A5:49:CYS:HB2	1.43	0.81
2:AA:1212:G:N7	2:AA:1235:G:O6	2.14	0.81
2:AA:1521:G:O5'	2:AA:1522:G:OP2	1.99	0.81
2:AA:1534:G:N2	2:AA:1538:G:N3	2.28	0.81
2:AA:1669:A:H2'	2:AA:1670:C:H5'	1.61	0.81
2:AA:1853:A:H2'	2:AA:1854:A:H8	1.44	0.81
2:AA:2149:G:H2'	2:AA:2150:U:C5'	2.09	0.81
2:AA:2209:C:O2'	2:AA:2210:G:H8	1.63	0.81
2:AA:2548:G:H1	2:AA:2560:C:N4	1.77	0.81
2:AA:295:G:O6	2:AA:344:G:N1	2.13	0.81
2:AA:775:G:C2	2:AA:787:U:H2'	2.15	0.81
2:AA:860:U:H2'	2:AA:861:A:H5'	1.63	0.81
4:AD:67:LYS:HB3	4:AD:150:GLY:HA2	1.63	0.81
4:AD:162:GLN:CB	4:AD:164:LEU:HD12	2.11	0.81
6:AF:107:ARG:O	6:AF:110:ALA:HB3	1.81	0.81
1:AB:18:G:H3'	7:AG:149:ARG:NH1	1.94	0.81
8:AH:121:GLU:HG2	8:AH:133:LYS:O	1.79	0.81
13:AN:66:LYS:NZ	13:AN:82:ASN:HD21	1.77	0.81
16:AQ:10:MET:HB2	16:AQ:13:ARG:HH21	1.41	0.81
20:AU:11:GLN:HG3	20:AU:21:LYS:NZ	1.96	0.81
22:AW:45:ARG:HE	22:AW:49:LEU:CG	1.94	0.81
34:BA:1483:A:H2'	34:BA:1484:C:H5'	1.63	0.81
34:BA:50:A:C2	34:BA:360:A:N3	2.48	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:708:C:O2'	34:BA:709:G:H5'	1.81	0.81
34:BA:826:C:H2'	34:BA:827:U:H6	1.43	0.81
35:BB:60:C:C5'	35:BB:61:C:O5'	2.28	0.81
35:BC:48:C:C2'	35:BC:48:C:O2	2.29	0.81
37:BE:208:ILE:HG21	37:BE:239:VAL:HG11	1.61	0.81
42:BJ:74:GLU:HB3	42:BJ:91:VAL:HG23	1.63	0.81
46:BN:92:GLU:HG3	46:BN:96:ARG:HD2	1.62	0.81
48:BP:81:LEU:HD22	48:BP:82:MET:H	1.44	0.81
34:BA:474:G:C5'	51:BS:81:ARG:HG3	2.10	0.81
54:BV:62:ILE:HG13	54:BV:63:THR:N	1.93	0.81
55:BW:26:ASN:HD22	55:BW:27:LYS:H	1.26	0.81
56:BX:12:LYS:CG	56:BX:18:TYR:HB3	2.11	0.81
24:A0:64:ARG:HG2	24:A0:65:LEU:H	1.45	0.81
24:A0:77:ARG:HH11	24:A0:77:ARG:HG3	1.45	0.81
28:A4:5:LEU:HD23	28:A4:5:LEU:N	1.95	0.81
31:A7:25:LYS:HE2	31:A7:25:LYS:HA	1.62	0.81
31:A7:34:ARG:NH1	31:A7:42:LEU:HA	1.96	0.81
32:A8:26:LYS:HD2	32:A8:44:LYS:CA	2.11	0.81
2:AA:1206:G:H1'	2:AA:1242:A:N6	1.95	0.81
2:AA:1264:G:N7	2:AA:1265:A:C4	2.49	0.81
2:AA:1336:A:H2'	2:AA:1337:G:H8	1.46	0.81
2:AA:1762:A:H8	2:AA:1762:A:H3'	1.45	0.81
2:AA:1903:G:C2	2:AA:1904:G:C5	2.69	0.81
2:AA:1996:C:OP1	2:AA:1996:C:C6	2.34	0.81
2:AA:2111:C:H41	2:AA:2120:G:H1'	1.40	0.81
2:AA:2147:G:H2'	2:AA:2148:G:C8	2.15	0.81
2:AA:2482:G:H2'	2:AA:2483:C:H5'	1.61	0.81
2:AA:2690:C:O5'	2:AA:2690:C:H6	1.62	0.81
2:AA:2713:A:H5'	2:AA:2714:G:OP2	1.81	0.81
2:AA:2893:G:C8	2:AA:2893:G:OP2	2.34	0.81
2:AA:291:C:N4	2:AA:349:G:C6	2.49	0.81
2:AA:593:G:C1'	32:A8:3:LYS:HZ2	1.94	0.81
2:AA:594:U:C4	2:AA:595:C:N4	2.48	0.81
2:AA:740:U:O2'	2:AA:741:G:OP1	1.97	0.81
2:AA:930:U:P	23:AX:37:LEU:HD21	2.21	0.81
1:AB:76:G:N2	1:AB:102:G:C2	2.49	0.81
3:AC:129:ARG:O	3:AC:130:ILE:HD12	1.81	0.81
3:AC:78:ALA:HB1	3:AC:82:LYS:HB2	1.63	0.81
5:AE:76:PRO:CA	5:AE:292:PRO:HG2	2.10	0.81
2:AA:2316:C:H5'	7:AG:142:ALA:HB1	1.63	0.81
2:AA:1058:G:HO2'	9:AI:3:ILE:H	1.28	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:21:VAL:HG11	10:AK:30:LEU:HD11	1.61	0.81
11:AL:129:GLU:HG2	11:AL:133:LYS:HE3	1.62	0.81
12:AM:24:SER:CB	12:AM:86:MET:HE3	2.11	0.81
13:AN:102:VAL:HG12	13:AN:103:ALA:N	1.95	0.81
14:AO:80:ASP:OD1	14:AO:93:VAL:HB	1.81	0.81
15:AP:15:THR:OG1	15:AP:20:ILE:HG23	1.80	0.81
16:AQ:61:ALA:CB	16:AQ:88:ALA:HB2	2.04	0.81
19:AT:16:ASN:HB2	19:AT:20:PHE:CZ	2.14	0.81
34:BA:453:A:N6	34:BA:480:U:N3	2.28	0.81
35:BB:59:U:N3	35:BB:60:C:C4	2.48	0.81
39:BG:31:CYS:SG	39:BG:33:MET:SD	2.79	0.81
39:BG:4:TYR:CE2	39:BG:8:VAL:HG22	2.16	0.81
41:BI:11:ASN:ND2	41:BI:13:ASN:HD22	1.77	0.81
41:BI:14:LEU:HD13	41:BI:18:GLN:CG	2.10	0.81
45:BM:36:GLY:O	45:BM:38:ILE:HG23	1.80	0.81
49:BQ:24:CYS:N	49:BQ:33:VAL:HG11	1.94	0.81
52:BT:88:TYR:HA	52:BT:91:ARG:NH2	1.95	0.81
45:BM:44:VAL:HG11	45:BM:46:ARG:HE	1.46	0.81
2:AA:1716:U:O5'	2:AA:1716:U:H6	1.64	0.81
24:A0:96:ARG:HD2	24:A0:115:GLU:OE1	1.81	0.81
2:AA:1012:U:H3'	2:AA:1012:U:H6	1.45	0.81
2:AA:1208:C:H2'	2:AA:1209:G:H8	1.45	0.81
2:AA:1341:U:HO2'	2:AA:1342:A:P	2.04	0.81
2:AA:199:A:H2'	2:AA:2433:A:H61	1.46	0.81
2:AA:2316:C:H4'	7:AG:151:ILE:CD1	2.11	0.81
2:AA:2376:A:H2'	2:AA:2377:A:C8	2.16	0.81
2:AA:108:U:H4'	2:AA:348:G:N2	1.95	0.81
2:AA:489:G:N2	2:AA:491:G:H1'	1.95	0.81
2:AA:610:C:N4	2:AA:618(A):C:H42	1.77	0.81
2:AA:627:A:H4'	2:AA:627:A:OP2	1.81	0.81
2:AA:991:C:H5'	2:AA:1186:G:OP2	1.81	0.81
6:AF:193:LEU:HD13	6:AF:223:LEU:CB	2.10	0.81
6:AF:197:SER:HB3	6:AF:239:ALA:N	1.96	0.81
8:AH:102:LEU:CD2	8:AH:122:ILE:HD13	2.10	0.81
9:AI:13:LEU:HA	9:AI:17:GLU:OE1	1.81	0.81
11:AL:18:ALA:O	11:AL:39:CYS:HB3	1.81	0.81
12:AM:84:ARG:CD	12:AM:98:PHE:HD2	1.94	0.81
2:AA:1006:C:HO2'	12:AM:86:MET:HB3	1.44	0.81
14:AO:66:VAL:H	14:AO:67:ARG:HH21	1.27	0.81
18:AS:49:LYS:HD3	18:AS:50:VAL:N	1.95	0.81
34:BA:580:U:N3	34:BA:761:G:O6	2.14	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:620:C:C2	39:BG:135:LEU:HD13	2.16	0.81
35:BB:34:G:C2	35:BB:35:A:C6	2.68	0.81
35:BB:59:U:P	35:BB:59:U:C6	2.74	0.81
41:BI:26:ILE:HG22	41:BI:30:LEU:HD11	1.62	0.81
43:BK:64:LYS:HG2	43:BK:79:VAL:HG21	1.60	0.81
44:BL:35:GLU:O	44:BL:38:GLN:HG2	1.80	0.81
47:BO:27:LEU:O	47:BO:29:GLY:N	2.14	0.81
2:AA:1602:U:H2'	2:AA:1603:A:O5'	1.80	0.80
2:AA:1612:C:H3'	31:A7:3:ARG:NH2	1.96	0.80
2:AA:1305:C:N3	2:AA:1623:G:O6	2.14	0.80
2:AA:207:A:C2	2:AA:208:C:H1'	2.17	0.80
2:AA:2189:U:O2'	2:AA:2190:G:H5'	1.81	0.80
2:AA:220:G:C4'	2:AA:234:C:H4'	2.10	0.80
2:AA:2403:C:N4	2:AA:2414:G:N1	2.23	0.80
2:AA:1952:A:H1'	2:AA:2560:C:O2'	1.80	0.80
2:AA:280:C:O2'	2:AA:281:G:H3'	1.81	0.80
2:AA:2842:G:H1	2:AA:2875:C:H42	0.83	0.80
2:AA:2893:G:O2'	2:AA:2894:G:O4'	1.99	0.80
2:AA:343:C:C2	2:AA:344:G:C4	2.69	0.80
2:AA:284:U:N3	2:AA:357:A:N6	2.29	0.80
2:AA:640:C:H42	2:AA:647:G:H1	1.29	0.80
2:AA:977:G:N7	2:AA:987:G:N2	2.28	0.80
4:AD:166:LYS:CD	4:AD:171:VAL:HG12	2.10	0.80
5:AE:38:VAL:HG22	5:AE:81:VAL:CG2	2.10	0.80
6:AF:193:LEU:HB2	6:AF:233:THR:HB	1.63	0.80
7:AG:84:LEU:O	7:AG:88:LEU:HB2	1.80	0.80
9:AJ:71:ILE:HG22	9:AJ:75:LYS:HE3	1.63	0.80
11:AL:106:GLU:HA	11:AL:125:MET:SD	2.21	0.80
18:AS:29:LEU:HD12	18:AS:33:ARG:CD	2.11	0.80
19:AT:34:LYS:HE3	19:AT:52:VAL:O	1.79	0.80
20:AU:46:ASP:OD1	20:AU:47:THR:N	2.14	0.80
21:AV:168:VAL:HG12	21:AV:169:VAL:H	1.43	0.80
36:B1:53:G:H2'	36:B1:54:G:H8	1.45	0.80
34:BA:1188:A:H2'	34:BA:1189:C:H6	1.44	0.80
34:BA:1236:A:H2'	34:BA:1237:C:C6	2.15	0.80
34:BA:190(I):G:H2'	34:BA:190(J):U:C6	2.16	0.80
34:BA:52:G:H2'	34:BA:53:A:C8	2.16	0.80
35:BB:53:G:C6	35:BB:54:U:C4	2.69	0.80
37:BE:167:PRO:HG2	37:BE:168:THR:H	1.47	0.80
38:BF:142:MET:HA	38:BF:146:ALA:CB	2.10	0.80
43:BK:9:MET:HG2	43:BK:13:ILE:CD1	2.09	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:942:G:N2	44:BL:124:GLN:HE22	1.79	0.80
34:BA:970:C:H42	48:BP:126:LYS:CE	1.93	0.80
50:BR:25:THR:HA	50:BR:28:GLN:CG	2.10	0.80
55:BW:13:LEU:N	55:BW:13:LEU:HD12	1.96	0.80
56:BX:6:ARG:HH11	56:BX:15:ARG:HH22	1.26	0.80
6:AF:148:VAL:HG12	6:AF:148:VAL:O	1.80	0.80
2:AA:1650:G:H5'	24:A0:104:ARG:NH2	1.96	0.80
25:A1:93:LYS:H	26:A2:10:LYS:NZ	1.79	0.80
28:A4:58:LYS:HG2	28:A4:62:ARG:CZ	2.10	0.80
33:A9:7:VAL:HG22	33:A9:34:GLN:HG2	1.63	0.80
2:AA:107:C:H2'	2:AA:108:U:C6	2.16	0.80
2:AA:1255:U:H5''	2:AA:1256:G:H5''	1.63	0.80
2:AA:146:G:C2'	2:AA:147:U:H5'	2.11	0.80
2:AA:1862:G:H2'	2:AA:1863:G:H8	1.46	0.80
2:AA:1889:A:H2'	2:AA:1890:A:H8	1.42	0.80
2:AA:1930:G:O2'	2:AA:1931:U:O5'	1.98	0.80
2:AA:2469:A:H8	2:AA:2469:A:C5'	1.93	0.80
2:AA:2882:A:H5''	24:A0:98:LEU:HD21	1.63	0.80
2:AA:288:C:H6	2:AA:288:C:H5'	1.46	0.80
2:AA:414:C:H4'	2:AA:1863:G:N2	1.96	0.80
2:AA:482:A:N6	2:AA:506:G:C4	2.49	0.80
2:AA:974(A):C:H1'	2:AA:989:G:H22	1.45	0.80
1:AB:42:C:H2'	1:AB:43:C:C6	2.16	0.80
3:AC:46:LYS:O	3:AC:210:ARG:HG3	1.79	0.80
5:AE:269:ILE:HG13	5:AE:297:LYS:CG	2.11	0.80
10:AK:12:LYS:HE3	10:AK:14:LYS:HE3	1.62	0.80
15:AP:58:HIS:CG	15:AP:59:ASN:N	2.50	0.80
16:AQ:35:VAL:HG13	16:AQ:103:ASP:CG	2.02	0.80
20:AU:20:HIS:HD2	20:AU:23:VAL:HB	1.46	0.80
2:AA:1158:C:H5'	23:AX:31:LEU:HB3	1.64	0.80
34:BA:1105:A:H2'	34:BA:1106:G:H8	1.45	0.80
34:BA:1507:A:H2'	34:BA:1508:G:C8	2.16	0.80
34:BA:141:A:H1'	34:BA:182:U:H1'	1.63	0.80
34:BA:974:A:H5'	34:BA:975:A:OP1	1.82	0.80
40:BH:101:ILE:HG12	40:BH:118:ILE:O	1.82	0.80
42:BJ:146:GLU:HG3	42:BJ:149:ARG:HH21	1.46	0.80
40:BH:151:LEU:HD22	43:BK:65:TYR:O	1.79	0.80
48:BP:65:LYS:O	48:BP:66:LEU:HD23	1.80	0.80
49:BQ:20:ALA:O	49:BQ:21:TYR:HB3	1.82	0.80
52:BT:59:ILE:HG13	52:BT:60:ILE:N	1.96	0.80
36:B1:18:U:H2'	36:B1:19:G:O4'	1.81	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:B1:20:A:N6	36:B1:34:U:H3	1.78	0.80
28:A4:33:VAL:HG12	28:A4:34:ASP:N	1.96	0.80
28:A4:58:LYS:HG2	28:A4:62:ARG:HH21	1.47	0.80
2:AA:1239:G:N3	2:AA:1240:U:C5	2.49	0.80
2:AA:137:C:N3	2:AA:142:G:C2	2.49	0.80
2:AA:1403:C:C4'	2:AA:1471:A:H5'	2.10	0.80
2:AA:1703:G:N2	2:AA:1704:G:H1'	1.97	0.80
2:AA:1911:U:O4	2:AA:1918:A:N7	2.15	0.80
2:AA:2055:C:C2'	2:AA:2504:U:H5'	2.11	0.80
2:AA:2611:U:OP2	2:AA:2611:U:H3'	1.82	0.80
2:AA:2755:C:O5'	2:AA:2755:C:H6	1.63	0.80
2:AA:481:G:N2	2:AA:509:C:N3	2.30	0.80
2:AA:568:U:O2	2:AA:570:G:C8	2.34	0.80
2:AA:609:A:H61	2:AA:619:G:H21	1.27	0.80
3:AC:161:ILE:HD12	3:AC:174:PRO:HG2	1.63	0.80
5:AE:228:ARG:H	5:AE:228:ARG:HD2	1.44	0.80
7:AG:79:MET:HA	7:AG:82:GLU:CD	2.01	0.80
2:AA:1084:A:OP2	9:AI:35:ALA:O	1.98	0.80
16:AQ:23:ARG:HH22	16:AQ:48:VAL:HG21	1.46	0.80
34:BA:1015:A:H2'	34:BA:1016:A:C8	2.15	0.80
34:BA:1361:G:H8	34:BA:1361:G:H3'	1.46	0.80
34:BA:1517:G:N2	34:BA:1518:A:H1'	1.95	0.80
34:BA:375:U:C4'	51:BS:17:TYR:HE2	1.94	0.80
34:BA:551:U:H2'	34:BA:552:U:H6	1.40	0.80
34:BA:658:G:C2'	34:BA:659:U:H5'	2.12	0.80
38:BF:182:ILE:HG12	38:BF:203:PHE:CD1	2.16	0.80
39:BG:92:VAL:HG12	39:BG:96:LEU:CD1	2.10	0.80
40:BH:125:SER:O	40:BH:127:ASN:N	2.13	0.80
34:BA:1347:G:H8	44:BL:107:ARG:HB3	1.46	0.80
47:BO:104:VAL:O	47:BO:106:ASP:N	2.13	0.80
47:BO:33:ARG:HE	47:BO:33:ARG:HA	1.47	0.80
49:BQ:9:LYS:HD3	49:BQ:10:ALA:N	1.96	0.80
52:BT:74:LEU:C	52:BT:74:LEU:HD13	2.02	0.80
53:BU:53:ARG:C	53:BU:55:ARG:H	1.82	0.80
10:AK:111:ASP:C	10:AK:112:LYS:HD3	2.01	0.80
25:A1:13:ARG:HH11	25:A1:13:ARG:CA	1.94	0.80
25:A1:55:ARG:CB	25:A1:58:ARG:HE	1.95	0.80
31:A7:21:ARG:NH2	31:A7:42:LEU:HB3	1.96	0.80
2:AA:83:G:C6	2:AA:102:G:H2'	2.16	0.80
2:AA:1479:G:H2'	2:AA:1480:G:H8	1.45	0.80
2:AA:1790:C:H5''	2:AA:1828:G:H22	1.46	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2255:G:C2	2:AA:2256:G:H1'	2.16	0.80
2:AA:23:G:H2'	2:AA:24:G:C5'	2.11	0.80
2:AA:2510:C:O2	2:AA:2578:G:N1	2.11	0.80
2:AA:380:U:H2'	2:AA:381:G:H5'	1.61	0.80
2:AA:763:G:O2'	2:AA:764:A:C5'	2.30	0.80
2:AA:977:G:O2'	2:AA:978:G:H5'	1.82	0.80
4:AD:209:ASN:HB3	4:AD:213:LYS:HZ2	1.43	0.80
7:AG:68:PRO:O	7:AG:69:ILE:HG13	1.81	0.80
8:AH:102:LEU:HB2	8:AH:104:LEU:HD11	1.64	0.80
9:AI:102:ILE:HG21	9:AI:118:LEU:CD1	2.11	0.80
11:AL:132:ALA:CA	11:AL:137:ILE:HB	2.11	0.80
12:AM:94:GLY:O	12:AM:98:PHE:HD1	1.63	0.80
13:AN:98:ILE:HG21	13:AN:118:ALA:HA	1.63	0.80
15:AP:76:GLY:HA3	15:AP:132:VAL:HG21	1.62	0.80
19:AT:3:ASP:CG	19:AT:4:VAL:H	1.82	0.80
20:AU:19:ARG:HA	20:AU:22:GLN:NE2	1.97	0.80
21:AV:119:ASN:HB3	21:AV:120:LEU:HD23	1.63	0.80
22:AW:53:ILE:O	22:AW:57:LYS:HG3	1.82	0.80
34:BA:1053:G:C5'	34:BA:1054:C:H5'	2.10	0.80
34:BA:1489:G:H2'	34:BA:1490:C:H5''	1.61	0.80
34:BA:1539:C:H2'	34:BA:1540:U:H5'	1.63	0.80
34:BA:242:C:C2	34:BA:285:G:N2	2.49	0.80
34:BA:741:G:O2'	34:BA:742:G:H5'	1.81	0.80
35:BB:65:G:C2	35:BB:66:A:C5	2.70	0.80
39:BG:135:LEU:O	39:BG:137:SER:N	2.14	0.80
39:BG:26:CYS:HA	39:BG:31:CYS:HA	1.63	0.80
41:BI:70:ASP:OD1	41:BI:71:ARG:HG2	1.81	0.80
10:AK:115:ILE:HA	10:AK:131:VAL:HG13	1.62	0.80
2:AA:1484:G:H1	2:AA:1505:C:H42	1.30	0.80
25:A1:6:THR:O	25:A1:9:VAL:HB	1.82	0.80
30:A6:19:GLY:O	30:A6:20:PHE:HB2	1.81	0.80
2:AA:1036:G:OP1	8:AH:59:HIS:CE1	2.34	0.80
2:AA:1521:G:H3'	2:AA:1522:G:C8	2.16	0.80
2:AA:1676:A:O2'	2:AA:1677:A:H5'	1.81	0.80
2:AA:1918:A:OP2	2:AA:1918:A:C3'	2.30	0.80
2:AA:1651:G:N1	2:AA:2006:C:N4	1.93	0.80
2:AA:980:A:C2	2:AA:2038:G:O4'	2.35	0.80
2:AA:2573:C:H6	2:AA:2573:C:H3'	1.45	0.80
2:AA:2807:G:O6	2:AA:2893:G:N7	2.14	0.80
2:AA:292:C:C6	2:AA:293:U:O4	2.35	0.80
2:AA:467:G:C2'	2:AA:468:G:H5'	2.11	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:13:A:H2	2:AA:526:A:N7	1.79	0.80
2:AA:692:C:O2'	2:AA:693:C:H5'	1.82	0.80
2:AA:971:C:C2	2:AA:972:G:H1'	2.16	0.80
1:AB:100:G:H2'	1:AB:101:A:C8	2.16	0.80
6:AF:82:GLN:N	6:AF:87:ARG:HD3	1.97	0.80
7:AG:97:GLN:HB2	7:AG:106:PHE:CD2	2.17	0.80
8:AH:137:LYS:HD2	8:AH:138:GLN:N	1.96	0.80
13:AN:98:ILE:CG2	13:AN:99:PHE:N	2.42	0.80
13:AN:9:LYS:HG3	13:AN:18:GLU:CG	2.10	0.80
15:AP:11:LYS:HB3	15:AP:12:PRO:HD2	1.63	0.80
15:AP:57:ARG:O	15:AP:61:LEU:CG	2.30	0.80
21:AV:126:GLY:O	21:AV:129:ARG:HB2	1.81	0.80
21:AV:19:ILE:HD13	21:AV:36:ARG:CD	2.12	0.80
22:AW:57:LYS:O	22:AW:60:GLN:HB3	1.80	0.80
34:BA:1532:U:H3'	34:BA:1532:U:C6	2.16	0.80
34:BA:187:C:H1'	55:BW:104:LEU:HD23	1.63	0.80
34:BA:251:G:H4'	34:BA:252:U:O5'	1.81	0.80
34:BA:414:A:H2'	34:BA:415:A:H8	1.44	0.80
34:BA:438:G:H22	34:BA:496:A:P	2.04	0.80
34:BA:560:U:O4'	34:BA:566:G:N2	2.15	0.80
34:BA:765:G:H21	34:BA:816:A:H2	1.29	0.80
34:BA:768:A:N7	34:BA:769:G:N7	2.30	0.80
37:BE:168:THR:OG1	37:BE:192:SER:HA	1.81	0.80
37:BE:163:PHE:HZ	37:BE:201:ILE:HG12	1.44	0.80
34:BA:430:A:H4'	39:BG:7:PRO:HB3	1.63	0.80
42:BJ:65:ALA:CA	42:BJ:68:ASN:HD22	1.93	0.80
44:BL:19:LEU:HD22	44:BL:59:PHE:CB	2.12	0.80
47:BO:77:LEU:O	47:BO:78:GLN:HG3	1.82	0.80
25:A1:93:LYS:O	25:A1:94:VAL:HG23	1.80	0.80
2:AA:2354:G:O2'	27:A3:31:VAL:HG13	1.81	0.80
2:AA:1439:A:H2'	2:AA:1440:G:C5'	2.11	0.80
2:AA:1548:C:H2'	2:AA:1549:C:C6	2.16	0.80
2:AA:1352:U:H1'	2:AA:1570:A:C2	2.15	0.80
2:AA:1650:G:O6	2:AA:2008:C:C4	2.35	0.80
2:AA:1695:G:N3	2:AA:1695:G:H3'	1.97	0.80
2:AA:1899:G:N2	2:AA:1902:C:H41	1.78	0.80
2:AA:204:A:OP1	2:AA:206:U:H1'	1.81	0.80
2:AA:2137:C:H5	2:AA:2154:G:N2	1.79	0.80
2:AA:2320:A:H5'	2:AA:2321:G:C5	2.16	0.80
2:AA:2432:A:C2	2:AA:2433:A:C2	2.70	0.80
2:AA:2589:A:O2'	2:AA:2590:A:H5'	1.82	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2737:G:H2'	2:AA:2738:A:H8	1.45	0.80
2:AA:2848:G:H22	2:AA:2867:G:C1'	1.94	0.80
2:AA:2852:G:N2	2:AA:2865:U:O2	2.14	0.80
2:AA:574:C:N4	2:AA:2054:A:H5''	1.96	0.80
2:AA:791:C:N3	2:AA:794:G:H5'	1.96	0.80
6:AF:5:ILE:HA	6:AF:139:VAL:CG1	2.12	0.80
2:AA:2313:C:C5'	7:AG:51:ARG:HD3	2.08	0.80
8:AH:34:ARG:CZ	8:AH:74:MET:HG2	2.11	0.80
11:AL:125:MET:O	11:AL:128:ILE:HB	1.79	0.80
11:AL:14:PRO:CB	11:AL:17:LYS:HD2	2.08	0.80
14:AO:114:VAL:HG21	14:AO:133:VAL:N	1.96	0.80
15:AP:17:ARG:HA	15:AP:22:GLY:HA3	1.63	0.80
16:AQ:27:LEU:O	16:AQ:27:LEU:HD13	1.82	0.80
19:AT:56:ASN:HD21	19:AT:62:LYS:CE	1.95	0.80
20:AU:15:PRO:O	20:AU:18:GLU:HB2	1.81	0.80
20:AU:49:GLU:HB3	20:AU:97:ARG:HD2	1.63	0.80
21:AV:103:ARG:CZ	21:AV:137:ASP:HB3	2.10	0.80
21:AV:37:LYS:N	21:AV:40:ASP:OD1	2.14	0.80
34:BA:1064:G:H1'	34:BA:1066:C:N3	1.96	0.80
34:BA:1128:C:H42	34:BA:1143:G:N2	1.80	0.80
34:BA:1235:U:H5''	56:BX:3:LYS:HB2	1.63	0.80
34:BA:922:G:H1'	34:BA:1398:A:C2	2.16	0.80
34:BA:1443:G:OP2	34:BA:1446:A:H5''	1.80	0.80
34:BA:129(A):G:H2'	34:BA:190(E):U:C6	2.16	0.80
34:BA:43:C:H5''	51:BS:12:LYS:CB	2.11	0.80
34:BA:449:C:H2'	34:BA:450:G:O4'	1.81	0.80
34:BA:665:A:H2'	34:BA:725:G:H21	1.44	0.80
37:BE:163:PHE:CD1	37:BE:185:ILE:HB	2.17	0.80
34:BA:1240:U:C2	42:BJ:32:ARG:NH2	2.50	0.80
44:BL:74:ILE:O	44:BL:77:ILE:HB	1.81	0.80
44:BL:93:ARG:NH2	44:BL:97:LYS:HD3	1.95	0.80
47:BO:34:ARG:NH2	47:BO:61:THR:HG21	1.96	0.80
50:BR:35:ARG:HH12	50:BR:59:MET:HG3	1.47	0.80
53:BU:56:THR:HB	53:BU:58:LEU:CD1	2.12	0.80
56:BX:10:ARG:HH21	56:BX:13:ILE:HD12	1.44	0.80
26:A2:6:GLN:HE22	26:A2:10:LYS:CB	1.94	0.80
28:A4:5:LEU:HD21	28:A4:9:ALA:HA	1.63	0.80
2:AA:2015:A:N7	29:A5:6:VAL:HG11	1.97	0.80
2:AA:2359:C:H4'	32:A8:52:LYS:HE2	1.62	0.80
2:AA:1690:A:C2	2:AA:1691:C:O4'	2.35	0.80
2:AA:1830:C:O2'	2:AA:1831:G:H5'	1.82	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1801:G:N1	2:AA:2207:C:H4'	1.97	0.80
2:AA:2424:C:H5'	2:AA:2425:A:H5'	1.64	0.80
2:AA:274:G:H2'	2:AA:275:G:H5'	1.63	0.80
2:AA:27:G:C2	2:AA:512:G:C2'	2.64	0.80
2:AA:511:U:H5	2:AA:512:G:C2	2.00	0.80
2:AA:929:G:N7	2:AA:930:U:C5	2.49	0.80
3:AC:77:ILE:HD13	3:AC:123:VAL:HG22	1.63	0.80
3:AC:80:GLY:H	3:AC:83:ILE:HG13	1.47	0.80
8:AH:102:LEU:HD23	8:AH:114:ILE:O	1.81	0.80
10:AK:7:LYS:HG3	10:AK:12:LYS:CG	2.12	0.80
2:AA:1138:G:OP1	12:AM:82:THR:HG22	1.80	0.80
17:AR:11:THR:HG22	17:AR:12:ASP:H	1.46	0.80
18:AS:19:LEU:HD22	29:A5:25:LEU:CG	2.10	0.80
20:AU:42:VAL:CA	20:AU:112:LEU:HD13	2.09	0.80
34:BA:1401:G:H2'	34:BA:1402:C:O4'	1.81	0.80
34:BA:220:G:O2'	34:BA:221:C:H5'	1.80	0.80
34:BA:253:U:O2	34:BA:275:G:H1'	1.82	0.80
34:BA:394:G:H2'	34:BA:395:C:C6	2.16	0.80
34:BA:677:U:H3	34:BA:713:G:H1	1.27	0.80
34:BA:872:A:O2'	34:BA:873:A:H5''	1.82	0.80
37:BE:192:SER:O	37:BE:194:PRO:HD2	1.80	0.80
38:BF:52:LEU:HD23	38:BF:52:LEU:H	1.46	0.80
39:BG:77:ASN:O	39:BG:80:GLU:HB2	1.82	0.80
40:BH:41:VAL:CG2	40:BH:113:ALA:HA	2.12	0.80
40:BH:81:GLU:HB3	40:BH:90:VAL:CG2	2.02	0.80
43:BK:6:ILE:HG23	43:BK:7:ALA:N	1.95	0.80
44:BL:116:LYS:HB3	44:BL:122:ALA:HA	1.62	0.80
48:BP:16:ASP:HA	48:BP:19:LEU:CG	2.11	0.80
55:BW:75:ASN:ND2	55:BW:75:ASN:H	1.79	0.80
10:AK:115:ILE:HG12	10:AK:131:VAL:HG13	1.64	0.80
26:A2:19:VAL:HG12	26:A2:21:ARG:HH22	1.46	0.80
31:A7:32:ALA:HA	31:A7:35:ARG:CG	2.11	0.80
2:AA:1014:U:C2'	2:AA:1015:G:H5'	2.12	0.80
2:AA:1496:A:H2'	2:AA:1497:U:C5	2.17	0.80
2:AA:1422:G:N1	2:AA:1576:U:N3	2.30	0.80
2:AA:1759:A:H2'	2:AA:1760:A:O5'	1.81	0.80
2:AA:1826:G:C2'	2:AA:1827:C:H5'	2.12	0.80
2:AA:1864:U:H2'	2:AA:1869:G:C5'	2.12	0.80
2:AA:2010:G:C2'	2:AA:2011:U:H5'	2.11	0.80
2:AA:2403:C:H42	2:AA:2414:G:H1	0.82	0.80
2:AA:2455:G:O2'	2:AA:2456:C:H5'	1.82	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2607:G:C2'	2:AA:2608:G:H5'	2.11	0.80
2:AA:272:G:H2'	2:AA:273:G:O4'	1.81	0.80
2:AA:311:A:H2'	2:AA:311:A:N3	1.97	0.80
2:AA:452:G:C2	2:AA:458:G:C2	2.70	0.80
2:AA:66:C:C4	2:AA:89:G:N1	2.49	0.80
5:AE:41:PHE:HB2	5:AE:311:PHE:CE1	2.17	0.80
5:AE:46:ALA:HB3	5:AE:72:VAL:CG2	2.07	0.80
6:AF:153:VAL:HG11	6:AF:207:LEU:CD1	2.11	0.80
8:AH:28:PRO:O	8:AH:30:GLY:N	2.14	0.80
11:AL:20:PRO:HG2	11:AL:23:PRO:HG2	1.64	0.80
18:AS:11:ARG:NH2	18:AS:98:LYS:HB3	1.96	0.80
34:BA:1529:G:H5''	34:BA:1530:G:OP2	1.81	0.80
34:BA:449:C:C2	34:BA:450:G:H1'	2.16	0.80
34:BA:450:G:H1	34:BA:483:C:H42	1.29	0.80
34:BA:763:G:H2'	34:BA:764:C:C6	2.16	0.80
35:BB:53:G:H2'	35:BB:54:U:C5	2.16	0.80
37:BE:15:VAL:HG22	37:BE:209:ARG:NH1	1.97	0.80
37:BE:169:LYS:HZ3	37:BE:170:GLU:HA	1.43	0.80
37:BE:68:ILE:HB	37:BE:70:PHE:CE1	2.16	0.80
42:BJ:126:ASP:C	42:BJ:129:GLU:HB2	2.01	0.80
47:BO:53:ARG:CZ	47:BO:92:ASP:OD2	2.29	0.80
47:BO:43:VAL:HG23	47:BO:55:VAL:HG21	1.61	0.80
54:BV:20:LEU:HD12	54:BV:21:GLU:N	1.97	0.80
54:BV:5:LEU:CD1	54:BV:9:VAL:HG13	2.11	0.80
55:BW:88:VAL:O	55:BW:92:LEU:HG	1.81	0.80
10:AK:93:ILE:HG13	10:AK:93:ILE:O	1.81	0.80
29:A5:44:HIS:HA	29:A5:52:TYR:OH	1.81	0.80
32:A8:37:SER:O	32:A8:41:ILE:HD11	1.82	0.80
33:A9:19:ARG:O	33:A9:22:ARG:CB	2.27	0.80
2:AA:80:G:H1	2:AA:106:C:H42	0.81	0.80
2:AA:810:U:OP1	2:AA:1253:A:C5	2.34	0.80
2:AA:125:G:C5'	31:A7:19:ARG:HD2	2.12	0.80
2:AA:1691:C:H2'	2:AA:1692:U:H5'	1.64	0.80
2:AA:2047:U:H2'	2:AA:2048:G:C8	2.17	0.80
2:AA:2063:C:O2	2:AA:2451:A:C2	2.35	0.80
2:AA:218:A:H3'	2:AA:219:G:C8	2.17	0.80
2:AA:2213:U:H5'	2:AA:2215:G:N7	1.96	0.80
2:AA:50:U:H6	2:AA:50:U:H3'	1.45	0.80
2:AA:878:A:H2	2:AA:879:G:H5''	1.46	0.80
2:AA:953:A:H2'	2:AA:954:G:H5'	1.64	0.80
4:AD:181:ARG:CB	4:AD:181:ARG:CZ	2.60	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:194:PHE:HB2	6:AF:211:ASP:O	1.82	0.80
6:AF:68:ALA:O	6:AF:69:HIS:ND1	2.15	0.80
7:AG:56:ARG:NH2	7:AG:63:ILE:HG12	1.97	0.80
12:AM:105:LEU:N	12:AM:105:LEU:HD23	1.96	0.80
2:AA:1669:A:C8	13:AN:4:GLN:OE1	2.33	0.80
2:AA:1665:A:O2'	13:AN:67:ARG:CZ	2.30	0.80
13:AN:83:ALA:C	13:AN:84:CYS:HG	1.82	0.80
13:AN:58:VAL:HG11	13:AN:86:ILE:CD1	2.11	0.80
14:AO:67:ARG:NH1	14:AO:109:LEU:HD12	1.96	0.80
2:AA:873:G:H4'	15:AP:32:LYS:CG	2.11	0.80
15:AP:42:TYR:HA	21:AV:119:ASN:HD21	1.46	0.80
34:BA:1181:G:O3'	34:BA:1184:G:H5'	1.81	0.80
34:BA:1184:G:H2'	34:BA:1185:G:H8	1.47	0.80
34:BA:227:G:H2'	34:BA:228:A:C8	2.17	0.80
34:BA:283:C:O2	34:BA:283:C:H2'	1.82	0.80
34:BA:678:U:H2'	34:BA:679:C:C6	2.16	0.80
34:BA:932:C:H4'	42:BJ:4:ARG:NH2	1.95	0.80
35:BC:16:U:OP2	35:BC:60:C:O2'	2.00	0.80
43:BK:45:ILE:HG13	43:BK:47:GLY:H	1.45	0.80
46:BN:62:GLN:NE2	46:BN:63:LEU:N	2.30	0.80
50:BR:56:LEU:O	50:BR:59:MET:HB3	1.81	0.80
52:BT:10:VAL:HG23	52:BT:55:ASP:O	1.82	0.80
10:AK:62:LEU:O	10:AK:65:ALA:HB3	1.81	0.80
24:A0:96:ARG:HG3	24:A0:98:LEU:HD11	1.62	0.80
25:A1:74:MET:CE	25:A1:78:THR:HG21	2.11	0.80
26:A2:69:ILE:HG13	26:A2:91:THR:HG23	1.64	0.80
26:A2:7:THR:O	26:A2:8:GLY:C	2.20	0.80
2:AA:144:C:O2'	2:AA:145:G:H5'	1.81	0.80
2:AA:1468:C:C4	2:AA:1524:G:C2	2.69	0.80
2:AA:1519:G:N3	2:AA:1520:U:H1'	1.98	0.80
2:AA:1588:C:O2'	2:AA:1589:C:H5'	1.82	0.80
2:AA:1949:G:O2'	2:AA:1950:G:H5'	1.82	0.80
2:AA:846:C:O2'	2:AA:847:U:OP2	2.00	0.80
2:AA:889:C:H2'	2:AA:890:A:O4'	1.82	0.80
2:AA:951:C:O2'	2:AA:952:G:H5'	1.80	0.80
3:AC:140:PRO:C	3:AC:142:ALA:H	1.84	0.80
2:AA:1791:A:O2'	4:AD:204:PHE:O	1.99	0.80
5:AE:107:GLU:HB3	5:AE:110:ARG:CZ	2.12	0.80
5:AE:70:VAL:CG1	5:AE:71:THR:N	2.45	0.80
7:AG:56:ARG:CZ	7:AG:56:ARG:HB3	2.08	0.80
8:AH:51:VAL:HG21	8:AH:68:ARG:HE	1.47	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:4:THR:C	21:AV:33:ALA:HB1	2.01	0.80
34:BA:1032:G:H2'	34:BA:1033:G:C8	2.16	0.80
34:BA:1481:U:H2'	34:BA:1482:G:H8	1.42	0.80
34:BA:312:C:O2	34:BA:312:C:H2'	1.81	0.80
34:BA:841:U:H3'	34:BA:848:C:H5'	1.64	0.80
34:BA:889:A:C2	34:BA:891:U:N3	2.50	0.80
34:BA:962:C:C4	34:BA:963:G:N7	2.49	0.80
35:BB:18:G:N1	35:BB:57:G:C6	2.32	0.80
35:BC:51:G:N2	35:BC:63:C:N3	2.26	0.80
37:BE:69:LEU:HB2	37:BE:159:PRO:CB	2.11	0.80
40:BH:76:ILE:HG23	40:BH:77:PRO:CD	2.12	0.80
43:BK:100:ILE:HD13	43:BK:125:ARG:HE	1.45	0.80
44:BL:111:ARG:O	44:BL:119:ALA:HB2	1.82	0.80
48:BP:23:TYR:O	48:BP:66:LEU:CB	2.30	0.80
49:BQ:34:TYR:HD1	49:BQ:34:TYR:H	1.26	0.80
54:BV:13:ASP:HA	54:BV:16:LEU:CB	2.12	0.80
10:AK:132:LYS:HA	10:AK:138:THR:HG21	1.62	0.80
24:A0:86:ARG:HH22	24:A0:118:GLU:CG	1.94	0.79
27:A3:37:LEU:HB3	27:A3:69:PHE:CG	2.18	0.79
30:A6:21:TYR:CE1	30:A6:43:VAL:HG23	2.17	0.79
2:AA:2286:A:N6	30:A6:32:GLN:O	2.16	0.79
2:AA:1139:G:O2'	2:AA:1140:C:H5'	1.82	0.79
2:AA:1672:C:O2	2:AA:2582:G:O4'	2.00	0.79
2:AA:1790:C:H5''	2:AA:1828:G:N2	1.97	0.79
2:AA:2415:G:N2	2:AA:2416:C:H1'	1.97	0.79
2:AA:2574:G:O2'	5:AE:240:PRO:HA	1.81	0.79
2:AA:669:G:N3	2:AA:669:G:C2'	2.41	0.79
2:AA:946:G:N1	2:AA:971:C:C4	2.50	0.79
3:AC:14:VAL:CG2	3:AC:28:LEU:HD21	2.11	0.79
5:AE:85:ALA:HB1	5:AE:87:GLU:CG	2.11	0.79
8:AH:102:LEU:HD12	8:AH:104:LEU:CD1	2.12	0.79
8:AH:41:THR:HG22	8:AH:52:THR:HG21	1.63	0.79
12:AM:54:VAL:HG13	12:AM:135:ILE:HD12	1.62	0.79
13:AN:68:GLY:HA2	13:AN:78:ARG:HG2	1.65	0.79
14:AO:141:GLU:HB2	14:AO:145:LEU:CD2	2.12	0.79
14:AO:94:ARG:HH11	14:AO:120:LEU:CB	1.94	0.79
18:AS:40:ASN:HD22	18:AS:41:LYS:H	1.29	0.79
21:AV:118:HIS:CG	21:AV:168:VAL:HA	2.16	0.79
21:AV:34:LEU:HD13	21:AV:39:PHE:CE2	2.16	0.79
34:BA:109:A:H4'	34:BA:110:C:OP2	1.80	0.79
34:BA:1073:U:N3	34:BA:1102:A:N6	2.28	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:766:A:N7	34:BA:814:A:C6	2.51	0.79
35:BB:48:C:N4	35:BB:59:U:C2	2.49	0.79
35:BC:72:C:C2'	35:BC:73:A:C8	2.59	0.79
37:BE:188:ALA:HB1	37:BE:192:SER:OG	1.82	0.79
37:BE:53:ARG:NE	37:BE:199:TYR:CE2	2.50	0.79
37:BE:185:ILE:HG23	37:BE:199:TYR:HB2	1.63	0.79
39:BG:205:GLU:OE1	40:BH:100:VAL:N	2.13	0.79
42:BJ:74:GLU:HG2	42:BJ:75:VAL:H	1.45	0.79
45:BM:47:PHE:HZ	45:BM:65:LEU:HB2	1.46	0.79
47:BO:53:ARG:NH2	47:BO:92:ASP:OD2	2.15	0.79
49:BQ:29:ARG:HH11	49:BQ:42:ILE:HD11	1.45	0.79
10:AK:111:ASP:CG	10:AK:112:LYS:N	2.35	0.79
37:BE:28:PHE:CE1	37:BE:31:TYR:HB3	2.17	0.79
2:AA:2247:A:H2'	2:AA:2248:C:H6	1.46	0.79
2:AA:2839:G:H21	24:A0:91:GLN:HB3	1.46	0.79
30:A6:16:ALA:HB2	30:A6:50:PHE:CZ	2.17	0.79
2:AA:1066:U:O2'	2:AA:1067:A:H3'	1.83	0.79
2:AA:1352:U:O2	2:AA:1352:U:H2'	1.80	0.79
2:AA:1707:G:H2'	2:AA:1708:C:C6	2.18	0.79
2:AA:1787:A:C2	2:AA:1788:C:C4	2.70	0.79
2:AA:1840:G:H1	2:AA:1902:C:N4	1.80	0.79
2:AA:1937:A:H3'	2:AA:1938:A:C5'	2.11	0.79
2:AA:2013:A:C6	2:AA:2014:A:C2	2.69	0.79
2:AA:2033:A:N1	2:AA:2036:C:C5	2.51	0.79
2:AA:2041:U:H2'	2:AA:2042:A:C5'	2.12	0.79
2:AA:2132:U:C2	2:AA:2134:A:OP2	2.35	0.79
2:AA:185:U:H5'	2:AA:217:G:H21	1.47	0.79
2:AA:2623:G:H5'	2:AA:2826:A:O2'	1.81	0.79
2:AA:417:C:H2'	2:AA:418:G:H8	1.45	0.79
2:AA:527:C:H5''	2:AA:2779:U:O2	1.82	0.79
2:AA:801:G:O2'	2:AA:802:A:OP1	2.00	0.79
2:AA:975:G:N2	2:AA:976:C:O4'	2.15	0.79
3:AC:89:ALA:HA	3:AC:154:ARG:NH1	1.97	0.79
3:AC:36:LYS:HZ2	3:AC:36:LYS:CA	1.94	0.79
3:AC:5:LYS:HE3	3:AC:8:ARG:HE	1.47	0.79
5:AE:107:GLU:O	5:AE:110:ARG:HG3	1.81	0.79
5:AE:212:GLY:O	5:AE:216:ARG:HG3	1.83	0.79
7:AG:145:ASP:HB3	16:AQ:15:GLU:O	1.82	0.79
8:AH:18:VAL:HG11	8:AH:42:ILE:HD12	1.64	0.79
2:AA:1006:C:C1'	12:AM:86:MET:SD	2.62	0.79
13:AN:73:ASP:O	13:AN:75:SER:OG	1.99	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2251:G:H5''	15:AP:102:ARG:CZ	2.11	0.79
18:AS:27:LYS:H	18:AS:71:VAL:HG23	1.48	0.79
19:AT:6:LYS:HD2	19:AT:27:ALA:CB	2.07	0.79
23:AX:9:VAL:H	23:AX:54:VAL:CG1	1.86	0.79
34:BA:1157:A:H4'	34:BA:1158:C:O5'	1.81	0.79
34:BA:1165:C:N3	34:BA:1171:G:N2	2.30	0.79
34:BA:1308:U:OP2	48:BP:99:ARG:HD2	1.82	0.79
34:BA:262:A:C2	34:BA:263:A:C6	2.70	0.79
34:BA:519:C:H2'	34:BA:520:A:C5'	2.13	0.79
34:BA:660:G:H2'	34:BA:661:G:H8	1.47	0.79
37:BE:166:ASP:OD2	37:BE:167:PRO:HD2	1.81	0.79
37:BE:33:TYR:HB2	37:BE:43:ASP:HB2	1.64	0.79
37:BE:82:ARG:HD2	37:BE:92:TYR:OH	1.81	0.79
38:BF:83:ARG:O	38:BF:87:LEU:HG	1.81	0.79
39:BG:149:ALA:O	39:BG:152:SER:HB2	1.81	0.79
40:BH:87:SER:OG	40:BH:130:ASN:HB3	1.82	0.79
41:BI:76:ALA:O	41:BI:80:ARG:HG3	1.82	0.79
34:BA:673:G:C5'	41:BI:87:ARG:HE	1.96	0.79
41:BI:89:MET:CB	53:BU:76:LEU:HD11	2.12	0.79
43:BK:40:ALA:HA	43:BK:43:GLY:O	1.82	0.79
43:BK:92:ARG:HH11	43:BK:92:ARG:HG2	1.46	0.79
44:BL:16:ARG:O	44:BL:63:ILE:HG23	1.82	0.79
45:BM:32:ALA:O	45:BM:33:GLN:HG3	1.81	0.79
45:BM:30:SER:HB2	45:BM:81:THR:N	1.97	0.79
51:BS:4:ILE:CG2	51:BS:21:VAL:HG13	2.12	0.79
52:BT:63:ARG:O	52:BT:65:ILE:HG23	1.82	0.79
27:A3:36:ILE:C	27:A3:68:VAL:HG13	2.02	0.79
29:A5:50:GLY:CA	29:A5:57:VAL:HB	2.11	0.79
2:AA:1612:C:O3'	31:A7:5:TYR:HB2	1.82	0.79
2:AA:1057:A:N6	2:AA:1081:U:H3	1.80	0.79
2:AA:120:U:O2	2:AA:120:U:H2'	1.80	0.79
2:AA:1222:C:N4	2:AA:1227:A:H61	1.76	0.79
2:AA:176:G:H2'	2:AA:176:G:N3	1.95	0.79
2:AA:2001:A:H2'	2:AA:2002:G:C8	2.17	0.79
2:AA:2278:A:HO2'	15:AP:19:TYR:HD2	1.28	0.79
2:AA:2581:G:N1	2:AA:2610:C:H6	1.78	0.79
2:AA:2596:U:H3'	2:AA:2597:G:H8	1.45	0.79
2:AA:2691:C:O2'	2:AA:2692:C:H5'	1.80	0.79
2:AA:2791:C:N3	2:AA:2805:G:O6	2.15	0.79
2:AA:2808:U:O3'	2:AA:2810:A:OP1	1.99	0.79
2:AA:343:C:N3	2:AA:344:G:C5	2.50	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:444(A):A:H2'	2:AA:1460:A:O2'	1.82	0.79
2:AA:572:A:N6	2:AA:573:G:N1	2.31	0.79
2:AA:738:G:N7	2:AA:739:G:N2	2.30	0.79
1:AB:41:U:OP1	1:AB:42:C:H5	1.65	0.79
1:AB:84:C:H42	1:AB:92:G:H1	0.80	0.79
2:AA:2785:C:H1'	5:AE:100:TRP:CD1	2.17	0.79
6:AF:102:LEU:HB2	6:AF:107:ARG:HE	1.47	0.79
9:AJ:71:ILE:CG1	11:AL:62:GLU:H	1.95	0.79
13:AN:7:ARG:NE	13:AN:44:LYS:HD3	1.97	0.79
13:AN:35:ILE:HD13	13:AN:69:VAL:HG21	1.64	0.79
14:AO:94:ARG:NH1	14:AO:120:LEU:N	2.30	0.79
15:AP:50:VAL:HG13	15:AP:147:VAL:CA	2.08	0.79
16:AQ:102:LEU:CG	16:AQ:129:ILE:HD12	2.11	0.79
18:AS:8:ARG:HB3	18:AS:8:ARG:HH11	1.47	0.79
21:AV:124:ALA:H	21:AV:159:THR:HG21	1.47	0.79
34:BA:117:G:H2'	34:BA:118:U:H5'	1.63	0.79
34:BA:1412:C:H2'	34:BA:1413:A:C8	2.17	0.79
34:BA:41:G:H2'	34:BA:42:G:H8	1.45	0.79
34:BA:886:G:H2'	34:BA:887:G:H8	1.46	0.79
35:BB:50:U:N3	35:BB:65:G:C2	2.50	0.79
37:BE:102:LEU:CB	37:BE:176:GLU:HB3	2.11	0.79
37:BE:75:LYS:HE3	37:BE:78:GLN:CD	2.02	0.79
38:BF:84:ILE:O	38:BF:101:LEU:HD13	1.81	0.79
39:BG:122:ARG:O	39:BG:134:ASP:HB2	1.82	0.79
39:BG:94:LEU:HD11	39:BG:200:GLU:OE1	1.83	0.79
39:BG:93:PHE:O	39:BG:94:LEU:C	2.18	0.79
40:BH:94:ALA:CB	40:BH:98:THR:HG21	2.11	0.79
42:BJ:72:ARG:CZ	42:BJ:142:GLU:OE1	2.29	0.79
43:BK:63:LEU:CD1	43:BK:63:LEU:N	2.36	0.79
44:BL:23:ASN:CG	44:BL:24:GLY:H	1.83	0.79
50:BR:34:LEU:HD23	50:BR:35:ARG:N	1.97	0.79
51:BS:45:THR:HB	51:BS:46:PRO:HD2	1.62	0.79
44:BL:85:LEU:HD11	44:BL:89:ASN:HD22	1.47	0.79
24:A0:101:ALA:HB2	29:A5:44:HIS:HB3	1.65	0.79
2:AA:581:C:O3'	25:A1:32:TYR:HD1	1.64	0.79
25:A1:55:ARG:HG2	25:A1:58:ARG:NH2	1.96	0.79
27:A3:36:ILE:H	27:A3:68:VAL:HG22	1.47	0.79
31:A7:21:ARG:NH1	31:A7:42:LEU:HB3	1.96	0.79
31:A7:21:ARG:CZ	31:A7:43:THR:HG23	2.13	0.79
2:AA:1084:A:C5'	9:AI:38:ALA:H	1.96	0.79
2:AA:1292:U:H2'	2:AA:1293:C:H6	1.48	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1310:G:N7	2:AA:1311:G:N3	2.30	0.79
2:AA:1421:G:N1	2:AA:1577:C:O2	2.16	0.79
2:AA:1781:C:H3'	2:AA:1781:C:C6	2.16	0.79
2:AA:2210:G:H4'	2:AA:2211:G:H5'	1.65	0.79
2:AA:2450:A:O2'	2:AA:2451:A:H5'	1.82	0.79
2:AA:2479:G:OP1	2:AA:2537:U:O4'	2.01	0.79
2:AA:2553:G:N2	2:AA:2583:G:C2'	2.45	0.79
2:AA:26:G:H1	2:AA:27:G:H21	1.28	0.79
2:AA:2794:C:N4	2:AA:2802:G:H1	1.81	0.79
2:AA:327:G:C2	2:AA:328:U:C6	2.71	0.79
2:AA:451:C:OP1	6:AF:49:ASP:N	2.15	0.79
2:AA:559:G:H5'	2:AA:559:G:H8	1.47	0.79
2:AA:573:G:H22	2:AA:2029:G:N2	1.80	0.79
2:AA:607:U:C2	2:AA:621:A:N6	2.50	0.79
2:AA:700:G:H1	2:AA:732:C:H42	1.30	0.79
2:AA:775:G:H5''	2:AA:777:A:C1'	2.12	0.79
2:AA:869:G:N2	2:AA:908:C:N3	2.29	0.79
3:AC:46:LYS:HB3	3:AC:210:ARG:HD3	1.64	0.79
4:AD:232:VAL:HG23	4:AD:233:ASP:N	1.94	0.79
4:AD:93:ILE:HB	4:AD:103:ILE:CG2	2.13	0.79
6:AF:223:LEU:CD2	6:AF:233:THR:HG21	2.08	0.79
6:AF:84:VAL:HG23	6:AF:85:LYS:HZ2	1.47	0.79
6:AF:83:ALA:N	6:AF:87:ARG:NE	2.25	0.79
8:AH:92:GLY:O	8:AH:94:ARG:HG3	1.82	0.79
9:AJ:35:ALA:HB3	9:AJ:36:PRO:CD	2.11	0.79
11:AL:18:ALA:HB3	11:AL:43:ASN:ND2	1.98	0.79
11:AL:22:PRO:HG2	11:AL:23:PRO:HD3	1.65	0.79
18:AS:90:ARG:HH11	18:AS:90:ARG:HB2	1.47	0.79
19:AT:11:THR:CG2	19:AT:14:ALA:HB2	2.09	0.79
2:AA:1340:U:H5	19:AT:55:GLN:HE22	1.28	0.79
34:BA:113:G:C5	34:BA:114:U:C5	2.70	0.79
34:BA:1388:C:H2'	34:BA:1389:C:C6	2.17	0.79
34:BA:22:G:C2'	34:BA:23:C:C6	2.64	0.79
34:BA:283:C:N3	34:BA:284:G:C8	2.51	0.79
34:BA:28:G:O2'	34:BA:296:U:OP1	1.99	0.79
34:BA:791:G:H2'	34:BA:792:A:C8	2.18	0.79
38:BF:18:TRP:O	38:BF:21:ARG:HG2	1.82	0.79
38:BF:24:ALA:HB1	38:BF:28:GLN:OE1	1.83	0.79
41:BI:98:LEU:CD2	53:BU:28:GLU:HA	2.12	0.79
42:BJ:137:LYS:O	42:BJ:141:VAL:HG23	1.82	0.79
43:BK:63:LEU:HG	43:BK:65:TYR:OH	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BS:46:PRO:HG2	51:BS:47:ASP:N	1.97	0.79
52:BT:10:VAL:O	52:BT:53:LEU:HD12	1.82	0.79
53:BU:58:LEU:HB3	53:BU:62:GLU:CB	2.11	0.79
54:BV:11:VAL:O	54:BV:11:VAL:HG12	1.83	0.79
54:BV:70:LYS:HB2	54:BV:73:GLU:OE2	1.81	0.79
2:AA:1510:A:H3'	2:AA:1511:A:N7	1.97	0.79
27:A3:14:ARG:N	27:A3:14:ARG:HH11	1.80	0.79
2:AA:1020:A:C1'	12:AM:49:ARG:CZ	2.60	0.79
2:AA:1270:C:H5''	2:AA:1271:G:OP1	1.81	0.79
2:AA:1925:C:N3	2:AA:1929:G:O6	2.15	0.79
2:AA:1936:A:N3	2:AA:1940:U:O2	2.16	0.79
2:AA:2112:G:OP2	2:AA:2117:A:C5	2.35	0.79
2:AA:2313:C:H5''	7:AG:51:ARG:CD	2.10	0.79
2:AA:2336:A:O2'	2:AA:2385:C:H5'	1.82	0.79
2:AA:2761:G:O2'	2:AA:2762:G:H5'	1.83	0.79
2:AA:324:A:H2	2:AA:325:G:C1'	1.95	0.79
2:AA:387:U:H4'	2:AA:388:G:O4'	1.82	0.79
2:AA:760:G:H2'	2:AA:761:A:O4'	1.83	0.79
1:AB:103:U:H3'	1:AB:103:U:H6	1.45	0.79
3:AC:20:TYR:CE1	3:AC:222:VAL:HG22	2.18	0.79
4:AD:130:PRO:HA	4:AD:187:CYS:O	1.82	0.79
4:AD:155:ARG:O	4:AD:157:ALA:N	2.14	0.79
5:AE:225:LYS:HB3	5:AE:226:HIS:ND1	1.97	0.79
5:AE:225:LYS:O	5:AE:229:GLN:NE2	2.14	0.79
6:AF:144:PHE:HE2	6:AF:156:LEU:HD22	1.46	0.79
6:AF:200:PRO:HB3	6:AF:212:VAL:HG11	1.64	0.79
7:AG:105:SER:OG	7:AG:131:THR:HA	1.82	0.79
9:AI:102:ILE:HD13	9:AI:118:LEU:HD22	1.65	0.79
2:AA:1059:G:OP1	9:AI:2:THR:HG22	1.83	0.79
13:AN:58:VAL:HG11	13:AN:86:ILE:HD13	1.63	0.79
14:AO:94:ARG:NH2	14:AO:118:LEU:HB2	1.97	0.79
15:AP:65:ARG:NE	15:AP:85:ILE:HB	1.97	0.79
18:AS:38:TYR:HB3	29:A5:41:LEU:CD2	2.12	0.79
20:AU:66:ASP:H	20:AU:72:ILE:CG1	1.93	0.79
22:AW:52:ALA:HA	22:AW:55:ARG:NH1	1.97	0.79
36:B1:11:U:H3	36:B1:45:A:N6	1.79	0.79
34:BA:540:G:H2'	34:BA:541:G:O4'	1.82	0.79
38:BF:42:LEU:O	38:BF:45:LYS:HB2	1.81	0.79
34:BA:590:C:OP1	43:BK:30:ARG:HG3	1.83	0.79
43:BK:85:ARG:HH11	43:BK:85:ARG:HG2	1.48	0.79
46:BN:44:SER:H	46:BN:47:VAL:HB	1.48	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BS:19:ILE:HB	51:BS:37:GLY:O	1.82	0.79
34:BA:186:C:O2'	55:BW:85:MET:SD	2.40	0.79
37:BE:140:HIS:HA	37:BE:143:GLU:HB2	1.63	0.79
24:A0:67:LEU:O	24:A0:67:LEU:HD13	1.83	0.79
24:A0:55:ALA:HA	24:A0:80:PHE:CD1	2.17	0.79
26:A2:28:GLU:OE2	26:A2:93:ILE:HB	1.82	0.79
30:A6:15:SER:O	30:A6:50:PHE:HA	1.82	0.79
32:A8:16:ILE:N	32:A8:16:ILE:CD1	2.46	0.79
32:A8:60:LEU:CD2	32:A8:64:ARG:HB2	2.13	0.79
2:AA:1025:G:C8	2:AA:1134:G:C1'	2.65	0.79
2:AA:1422:G:N2	2:AA:1576:U:O2	2.16	0.79
2:AA:1663:C:H2'	2:AA:1664:A:C8	2.18	0.79
2:AA:2058:A:H2'	2:AA:2059:A:C8	2.17	0.79
2:AA:2680:C:H5''	5:AE:302:GLY:C	2.03	0.79
2:AA:304:G:H1	2:AA:313:C:N4	1.79	0.79
2:AA:791:C:C4	2:AA:794:G:O4'	2.35	0.79
2:AA:824:A:H2'	2:AA:825:C:H5	1.47	0.79
3:AC:45:ALA:O	3:AC:170:ALA:HA	1.83	0.79
4:AD:140:VAL:O	4:AD:160:SER:HB2	1.82	0.79
5:AE:174:LEU:HD12	5:AE:174:LEU:N	1.94	0.79
5:AE:39:GLN:CA	5:AE:174:LEU:HG	2.13	0.79
6:AF:42:ARG:O	6:AF:43:LYS:O	2.01	0.79
2:AA:452:G:P	6:AF:52:ALA:HB1	2.21	0.79
8:AH:10:ILE:O	8:AH:10:ILE:CG2	2.31	0.79
9:AI:71:ILE:HG22	9:AI:75:LYS:HE3	1.63	0.79
9:AJ:102:ILE:HG21	9:AJ:118:LEU:CD1	2.12	0.79
9:AJ:85:LEU:HD21	11:AL:69:ILE:CD1	2.11	0.79
18:AS:85:VAL:HG12	18:AS:95:ILE:HD11	1.63	0.79
20:AU:20:HIS:O	20:AU:23:VAL:N	2.15	0.79
35:BC:34:G:N2	36:B1:62:G:N2	2.31	0.79
34:BA:1361:G:C8	34:BA:1361:G:H3'	2.17	0.79
34:BA:1483:A:C2'	34:BA:1484:C:H5'	2.11	0.79
34:BA:314:C:H2'	34:BA:315:A:C8	2.18	0.79
34:BA:948:C:OP1	48:BP:109:THR:CB	2.30	0.79
39:BG:64:LEU:HA	39:BG:67:ILE:HD11	1.62	0.79
41:BI:97:PHE:HE2	53:BU:31:LEU:HD12	1.44	0.79
42:BJ:71:PRO:HG2	42:BJ:96:GLN:HG3	1.63	0.79
6:AF:59:GLU:HA	6:AF:59:GLU:OE2	1.82	0.79
8:AH:168:VAL:O	8:AH:169:ARG:HG2	1.82	0.79
28:A4:42:PHE:O	28:A4:57:ASP:HA	1.81	0.79
33:A9:25:VAL:HG21	33:A9:34:GLN:OE1	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1454:U:H5'	2:AA:1456:G:OP2	1.82	0.79
2:AA:2097:C:H2'	2:AA:2098:U:H5'	1.65	0.79
2:AA:2135:A:H62	2:AA:2150:U:C3'	1.95	0.79
2:AA:2352:A:O2'	2:AA:2353:G:H5'	1.83	0.79
2:AA:2684:U:H3	2:AA:2725:A:N6	1.79	0.79
2:AA:2749:A:C5	2:AA:2750:A:N7	2.51	0.79
2:AA:321:G:H5'	6:AF:150:THR:HG21	1.63	0.79
2:AA:452:G:OP1	6:AF:52:ALA:HB1	1.83	0.79
2:AA:643:A:O2'	2:AA:644:A:O4'	1.98	0.79
2:AA:718:A:H5''	2:AA:719:C:H6	1.43	0.79
2:AA:729:G:H8	2:AA:764:A:OP1	1.66	0.79
2:AA:806:C:C2	2:AA:807:U:C5	2.71	0.79
2:AA:99:U:H3	20:AU:107:LYS:HD3	1.47	0.79
1:AB:103:U:H3'	1:AB:103:U:C6	2.17	0.79
12:AM:61:VAL:HG12	12:AM:62:ASP:OD1	1.82	0.79
21:AV:142:ASN:O	21:AV:171:VAL:HG21	1.83	0.79
23:AX:45:GLY:HA2	23:AX:48:GLU:CD	2.03	0.79
34:BA:1067:A:N1	34:BA:1191:A:N7	2.30	0.79
34:BA:1068:G:H1'	34:BA:1191:A:N6	1.97	0.79
34:BA:1229:A:H2'	34:BA:1230:C:H6	1.47	0.79
34:BA:1231:G:H2'	34:BA:1232:U:C6	2.18	0.79
34:BA:394:G:C4	34:BA:395:C:C5	2.71	0.79
34:BA:440:A:N6	34:BA:495:U:H5	1.77	0.79
34:BA:764:C:H3'	34:BA:765:G:H8	1.44	0.79
34:BA:849:C:O2'	34:BA:850:U:H5'	1.82	0.79
35:BB:59:U:O5'	35:BB:59:U:C6	2.36	0.79
38:BF:187:ALA:HB3	38:BF:198:VAL:HG23	1.64	0.79
41:BI:67:MET:HE1	41:BI:69:GLU:O	1.82	0.79
34:BA:826:C:H1'	43:BK:15:ASN:HD22	1.43	0.79
41:BI:100:ASN:HD22	53:BU:23:LYS:HG2	1.48	0.79
53:BU:63:GLN:HA	53:BU:66:LEU:HD21	1.65	0.79
35:BB:37:G:N7	35:BB:37:G:P	2.55	0.79
54:BV:80:TYR:CD1	54:BV:81:ARG:N	2.49	0.79
25:A1:86:ALA:O	25:A1:87:ASN:HB2	1.80	0.79
27:A3:19:LYS:CD	27:A3:21:LEU:HD21	2.12	0.79
2:AA:2354:G:O4'	27:A3:31:VAL:HG22	1.83	0.79
2:AA:1227:A:C8	2:AA:1228:G:H5''	2.18	0.79
2:AA:1332:G:N7	2:AA:1609:A:N6	2.30	0.79
2:AA:1882:C:H2'	2:AA:1883:G:H5'	1.65	0.79
2:AA:2027:G:C4	2:AA:2037:G:N2	2.51	0.79
2:AA:2207:C:C2'	2:AA:2208:U:C5'	2.54	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2517:C:O2'	2:AA:2518:A:O5'	2.01	0.79
2:AA:270(B):A:O2'	2:AA:270(C):C:C6	2.25	0.79
2:AA:295:G:C6	2:AA:344:G:C5	2.71	0.79
2:AA:506:G:H5'	2:AA:509:C:O2'	1.82	0.79
2:AA:609:A:H61	2:AA:619:G:N2	1.79	0.79
2:AA:830:G:C4	2:AA:2448:A:N7	2.51	0.79
3:AC:56:GLN:HA	3:AC:201:PRO:HB2	1.65	0.79
4:AD:117:SER:CB	4:AD:128:ALA:H	1.95	0.79
5:AE:39:GLN:NE2	5:AE:174:LEU:HD11	1.96	0.79
5:AE:48:MET:CB	5:AE:71:THR:HG23	2.11	0.79
6:AF:108:GLN:O	6:AF:112:ARG:HG3	1.82	0.79
8:AH:9:GLU:O	8:AH:49:ILE:HD11	1.81	0.79
21:AV:156:GLU:CG	21:AV:157:GLY:H	1.96	0.79
21:AV:5:ALA:O	21:AV:33:ALA:CB	2.31	0.79
36:B1:67:U:H2'	36:B1:68:U:H5'	1.65	0.79
34:BA:1137:C:H4'	34:BA:1138:G:N2	1.98	0.79
34:BA:1391:U:H2'	34:BA:1392:G:H8	1.46	0.79
34:BA:47:C:H4'	34:BA:48:C:C5'	2.12	0.79
34:BA:520:A:N6	34:BA:529:G:H21	1.80	0.79
34:BA:657:G:C2'	34:BA:658:G:H5'	2.12	0.79
34:BA:911:U:H2'	34:BA:912:C:C6	2.17	0.79
34:BA:997:U:H3	34:BA:1044:A:H2	1.31	0.79
35:BB:51:G:N2	35:BB:63:C:N3	2.29	0.79
37:BE:75:LYS:HG2	37:BE:78:GLN:NE2	1.98	0.79
47:BO:93:LEU:O	47:BO:96:VAL:HG23	1.83	0.79
48:BP:38:GLY:O	48:BP:39:ILE:HG23	1.82	0.79
48:BP:77:ASN:O	48:BP:81:LEU:HD13	1.82	0.79
52:BT:7:THR:HG23	52:BT:57:VAL:O	1.83	0.79
10:AK:82:LYS:C	10:AK:89:LEU:HD23	2.04	0.79
2:AA:1482:U:C2'	2:AA:1483:G:H4'	2.12	0.79
25:A1:74:MET:HG3	25:A1:117:ARG:CZ	2.12	0.79
25:A1:88:ILE:HB	26:A2:52:GLY:HA3	1.65	0.79
26:A2:61:VAL:HG12	26:A2:95:ILE:CG2	2.09	0.79
27:A3:35:ASN:HA	27:A3:68:VAL:CG2	2.13	0.79
2:AA:1023:U:P	2:AA:1025:G:H1	2.05	0.79
2:AA:1128:A:C2	2:AA:1129:A:C5	2.70	0.79
2:AA:1140:C:O2'	2:AA:1141:U:OP2	2.00	0.79
2:AA:1479:G:H2'	2:AA:1480:G:C8	2.17	0.79
2:AA:1528:A:H61	2:AA:1543:A:H62	0.83	0.79
2:AA:1699:G:N7	2:AA:1763:G:C2	2.51	0.79
2:AA:2553:G:N2	2:AA:2583:G:C1'	2.33	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:747:U:C5	2:AA:2613:U:C5	2.70	0.79
2:AA:2628:C:H1'	2:AA:2781:A:N3	1.97	0.79
2:AA:2852:G:O6	2:AA:2865:U:O4	2.01	0.79
2:AA:2865:U:C5	2:AA:2866:U:C5	2.71	0.79
2:AA:309:G:O2'	2:AA:329:G:H2'	1.83	0.79
2:AA:503:A:H1'	2:AA:505:A:H8	1.45	0.79
2:AA:932:G:N2	2:AA:933:A:N6	2.31	0.79
1:AB:13:A:C6	1:AB:70:C:H5'	2.17	0.79
4:AD:146:LYS:O	4:AD:149:ARG:HG2	1.83	0.79
4:AD:213:LYS:O	4:AD:215:LYS:HG2	1.83	0.79
5:AE:222:ARG:O	5:AE:227:ALA:HA	1.82	0.79
12:AM:45:VAL:C	12:AM:132:LEU:HD13	2.02	0.79
20:AU:65:VAL:HA	20:AU:72:ILE:CD1	2.13	0.79
34:BA:167:G:O2'	34:BA:168:G:H5'	1.82	0.79
35:BB:57:G:C2'	35:BB:58:A:H5'	2.08	0.79
37:BE:162:ILE:HD13	37:BE:183:PRO:O	1.82	0.79
37:BE:210:SER:O	37:BE:214:ILE:HG12	1.82	0.79
39:BG:31:CYS:CB	39:BG:33:MET:SD	2.70	0.79
48:BP:52:GLU:HA	48:BP:55:ARG:HD3	1.64	0.79
49:BQ:22:THR:O	49:BQ:23:ARG:HB2	1.82	0.79
51:BS:55:ARG:HA	51:BS:55:ARG:HE	1.48	0.79
25:A1:36:PHE:H	25:A1:36:PHE:HD1	1.31	0.79
26:A2:34:GLU:C	26:A2:63:HIS:HE1	1.85	0.79
27:A3:26:PHE:O	27:A3:28:GLY:N	2.15	0.79
30:A6:16:ALA:O	30:A6:19:GLY:N	2.16	0.79
31:A7:10:ARG:O	31:A7:14:LYS:HG3	1.83	0.79
2:AA:126:A:OP1	31:A7:44:VAL:HG11	1.82	0.79
2:AA:546:C:N4	2:AA:1221:C:OP1	2.12	0.79
2:AA:1234:U:O2'	2:AA:1235:G:H5'	1.83	0.79
2:AA:1529:A:OP1	2:AA:1539:G:O6	2.00	0.79
2:AA:1566:A:OP1	2:AA:1566:A:O4'	2.00	0.79
2:AA:1726:G:H2'	2:AA:1727:U:C5'	2.12	0.79
2:AA:1771:C:H2'	2:AA:1772:G:C8	2.18	0.79
2:AA:2029:G:O5'	2:AA:2029:G:H8	1.64	0.79
2:AA:2139:C:O2	2:AA:2152:G:N1	2.15	0.79
2:AA:2704:C:H2'	2:AA:2705:A:O4'	1.83	0.79
2:AA:2863:C:O2'	2:AA:2864:G:H5'	1.81	0.79
2:AA:295:G:N1	2:AA:344:G:C5	2.51	0.79
2:AA:342:G:H22	2:AA:344:G:H21	1.28	0.79
2:AA:58:G:H1	2:AA:69:C:N4	1.81	0.79
2:AA:917:A:C3'	2:AA:918:A:H5''	2.12	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:10:C:H6	1:AB:10:C:O5'	1.65	0.79
1:AB:50:G:OP1	16:AQ:75:THR:HG23	1.83	0.79
3:AC:10:LEU:HD23	3:AC:220:PRO:HD3	1.65	0.79
5:AE:76:PRO:CB	5:AE:292:PRO:HG2	2.12	0.79
5:AE:82:ALA:O	5:AE:83:LEU:CG	2.29	0.79
6:AF:105:LYS:O	6:AF:109:LEU:HG	1.83	0.79
6:AF:152:GLU:O	6:AF:155:SER:HB3	1.81	0.79
6:AF:55:ARG:O	6:AF:79:ARG:CZ	2.31	0.79
8:AH:55:SER:CB	8:AH:60:HIS:HB2	2.12	0.79
12:AM:80:LYS:O	12:AM:84:ARG:HG3	1.83	0.79
13:AN:78:ARG:HB2	17:AR:21:PHE:CE1	2.18	0.79
18:AS:69:LEU:HD13	18:AS:107:LEU:HD13	1.65	0.79
19:AT:5:ILE:HG22	19:AT:6:LYS:N	1.98	0.79
21:AV:106:GLY:HA2	21:AV:142:ASN:OD1	1.82	0.79
34:BA:1125:U:H5''	34:BA:1126:U:H5	1.48	0.79
34:BA:1423:G:H2'	34:BA:1424:C:H6	1.48	0.79
34:BA:1479:C:H2'	34:BA:1480:G:H5'	1.63	0.79
34:BA:367:U:H4'	34:BA:368:U:OP1	1.82	0.79
34:BA:52:G:O2'	34:BA:53:A:H5'	1.83	0.79
34:BA:783:C:C2'	34:BA:784:C:H5'	2.11	0.79
38:BF:16:ARG:HH22	38:BF:184:TYR:H	1.26	0.79
43:BK:6:ILE:HD13	43:BK:7:ALA:CA	2.12	0.79
34:BA:1227:A:O2'	48:BP:115:LYS:HB3	1.81	0.79
50:BR:36:ILE:HG13	50:BR:59:MET:CE	2.13	0.79
52:BT:59:ILE:HG12	52:BT:71:PHE:HB3	1.65	0.79
55:BW:56:MET:O	55:BW:59:ALA:HB3	1.83	0.79
25:A1:9:VAL:O	25:A1:13:ARG:NH1	2.16	0.78
26:A2:54:TYR:O	26:A2:56:VAL:N	2.17	0.78
28:A4:17:GLN:CD	28:A4:34:ASP:HA	2.04	0.78
2:AA:1031:G:H1	2:AA:1123:C:H42	0.83	0.78
2:AA:1701:A:C2'	2:AA:1702:G:H5'	2.12	0.78
2:AA:1864:U:C2'	2:AA:1869:G:H5'	2.12	0.78
2:AA:1936:A:C2	2:AA:1945:G:C8	2.71	0.78
2:AA:2415:G:C2	2:AA:2416:C:C6	2.72	0.78
2:AA:775:G:N2	2:AA:787:U:C3'	2.46	0.78
3:AC:190:ARG:HB2	3:AC:190:ARG:HH11	1.46	0.78
4:AD:210:LYS:HA	4:AD:213:LYS:CG	2.12	0.78
5:AE:268:LEU:CG	5:AE:296:VAL:HG22	2.12	0.78
6:AF:35:VAL:O	6:AF:38:ALA:HB3	1.82	0.78
8:AH:58:LYS:HA	8:AH:61:ARG:CD	2.12	0.78
2:AA:1140:C:C4	12:AM:49:ARG:CZ	2.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:107:ARG:HA	13:AN:115:ILE:CD1	2.11	0.78
15:AP:50:VAL:O	15:AP:118:ALA:CA	2.25	0.78
16:AQ:44:ARG:HB3	16:AQ:62:HIS:CD2	2.18	0.78
2:AA:76:C:O2'	22:AW:55:ARG:HG3	1.83	0.78
34:BA:1269:A:H2'	34:BA:1270:C:C4'	2.12	0.78
34:BA:1270:C:O5'	34:BA:1270:C:H6	1.65	0.78
34:BA:1497:G:HO2'	34:BA:1519:A:H2	1.31	0.78
34:BA:495:U:H2'	34:BA:495:U:O2	1.82	0.78
34:BA:36:C:N3	34:BA:548:G:O6	2.15	0.78
34:BA:613:C:N3	34:BA:627:G:N2	2.28	0.78
34:BA:701:C:H4'	34:BA:702:A:OP2	1.82	0.78
34:BA:717:C:O2'	34:BA:718:G:OP2	2.01	0.78
35:BB:51:G:H2'	35:BB:52:U:H6	1.47	0.78
41:BI:41:GLU:HG3	41:BI:62:TRP:CZ3	2.17	0.78
43:BK:109:ILE:HG12	43:BK:137:VAL:H	1.48	0.78
46:BN:103:LEU:O	46:BN:105:VAL:N	2.16	0.78
47:BO:32:PHE:HB3	47:BO:84:LEU:CD2	2.13	0.78
49:BQ:23:ARG:N	49:BQ:33:VAL:HG21	1.98	0.78
52:BT:97:SER:O	52:BT:98:LEU:HG	1.82	0.78
10:AK:125:GLY:N	10:AK:145:VAL:O	2.14	0.78
2:AA:2899:G:H2'	2:AA:2900:A:H8	1.47	0.78
24:A0:64:ARG:HG2	24:A0:65:LEU:N	1.98	0.78
25:A1:99:ALA:HA	25:A1:106:PHE:CG	2.19	0.78
26:A2:49:GLU:N	26:A2:54:TYR:OH	2.16	0.78
28:A4:56:VAL:C	28:A4:61:LYS:HE2	2.02	0.78
28:A4:48:ARG:HG3	28:A4:71:SER:OG	1.83	0.78
30:A6:21:TYR:OH	30:A6:43:VAL:N	2.17	0.78
30:A6:16:ALA:C	30:A6:48:VAL:HG11	2.02	0.78
2:AA:1007:C:H2'	2:AA:1008:C:C5	2.19	0.78
2:AA:1143:A:O2'	2:AA:1144:G:C5'	2.31	0.78
2:AA:139:G:C4	2:AA:141(A):C:O2	2.37	0.78
2:AA:2123:G:N1	2:AA:2175:C:O2	2.15	0.78
2:AA:2776:A:H1'	2:AA:2778:A:N7	1.97	0.78
2:AA:2779:U:C1'	2:AA:2781:A:H62	1.96	0.78
2:AA:2804:C:H5	2:AA:2805:G:C6	2.00	0.78
2:AA:308:G:N2	2:AA:329:G:H21	1.80	0.78
2:AA:331:A:O2'	2:AA:332:A:OP1	2.01	0.78
2:AA:343:C:C4	2:AA:344:G:N1	2.51	0.78
2:AA:385:C:N3	2:AA:391:G:O6	2.15	0.78
2:AA:610:C:C6	2:AA:611:C:H5	2.02	0.78
2:AA:71:A:O2'	2:AA:72:U:OP2	2.01	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:58:A:H8	1:AB:58:A:O5'	1.66	0.78
4:AD:71:ASP:OD1	4:AD:119:PRO:HD2	1.84	0.78
5:AE:207:GLY:HA2	5:AE:257:GLY:HA3	1.65	0.78
8:AH:126:SER:O	8:AH:128:THR:N	2.16	0.78
9:AI:102:ILE:HD13	9:AI:118:LEU:CD2	2.13	0.78
9:AJ:60:ASP:HB2	9:AJ:128:LYS:HD3	1.63	0.78
11:AL:11:LEU:HD11	11:AL:28:LEU:CG	2.13	0.78
2:AA:1020:A:C1'	12:AM:49:ARG:NH2	2.46	0.78
16:AQ:19:ASP:O	16:AQ:22:GLN:OE1	2.02	0.78
16:AQ:24:LEU:O	16:AQ:27:LEU:N	2.16	0.78
21:AV:14:LEU:HD23	21:AV:79:ILE:HG21	1.63	0.78
34:BA:1418:A:N1	34:BA:1483:A:C6	2.51	0.78
34:BA:299:G:H2'	34:BA:300:A:N7	1.98	0.78
34:BA:515:G:H1	34:BA:536:C:H42	1.30	0.78
34:BA:959:A:H3'	34:BA:960:U:C5'	2.13	0.78
35:BB:34:G:O2'	35:BB:35:A:H5''	1.83	0.78
35:BB:47:U:C5	35:BB:49:C:C5'	2.64	0.78
35:BB:49:C:N3	35:BB:65:G:N1	2.31	0.78
35:BC:22:G:H2'	35:BC:23:A:C8	2.18	0.78
37:BE:97:TRP:CZ2	37:BE:102:LEU:HD13	2.19	0.78
39:BG:78:LEU:HD13	39:BG:97:LEU:HD23	1.66	0.78
41:BI:1:MET:SD	41:BI:68:PRO:HG3	2.23	0.78
45:BM:78:ASN:N	45:BM:78:ASN:HD22	1.79	0.78
48:BP:57:ARG:O	48:BP:61:GLU:HB2	1.81	0.78
34:BA:754:C:H4'	50:BR:72:ARG:NH2	1.97	0.78
55:BW:63:ILE:HG22	55:BW:64:ASP:N	1.99	0.78
55:BW:45:GLN:HG2	55:BW:91:LEU:HD21	1.63	0.78
26:A2:25:LEU:O	26:A2:26:GLN:HG3	1.83	0.78
27:A3:59:LEU:HA	27:A3:81:ILE:HG12	1.65	0.78
28:A4:48:ARG:H	28:A4:52:THR:HG1	1.32	0.78
32:A8:29:LYS:HZ2	32:A8:36:LYS:HE2	1.47	0.78
2:AA:1005:C:H6	2:AA:1143:A:OP1	1.66	0.78
2:AA:1174:A:H2	2:AA:1175:U:H3'	1.43	0.78
2:AA:1332:G:H5''	2:AA:1333:C:OP2	1.83	0.78
2:AA:1364:G:N2	2:AA:1367:A:OP2	2.16	0.78
2:AA:1444:G:H2'	2:AA:1445:C:C5	2.18	0.78
2:AA:1952:A:C5	2:AA:1953:A:N1	2.51	0.78
2:AA:2262:U:O2'	2:AA:2263:C:H5'	1.82	0.78
2:AA:2270:G:O6	2:AA:2271:G:C2	2.36	0.78
2:AA:2327:A:H2'	2:AA:2328:A:C8	2.18	0.78
2:AA:221:A:N6	2:AA:266:G:C5	2.50	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:270(N):G:H5''	10:AK:53:LYS:NZ	1.97	0.78
2:AA:2880:C:O2	24:A0:93:GLY:HA3	1.83	0.78
2:AA:525:U:OP1	2:AA:556:G:H5'	1.83	0.78
2:AA:678:C:H42	2:AA:799:G:H1	0.82	0.78
2:AA:928:G:H2'	2:AA:929:G:C8	2.19	0.78
2:AA:989:G:O2'	2:AA:990:A:O5'	2.00	0.78
3:AC:10:LEU:HG	3:AC:32:LEU:HD22	1.65	0.78
6:AF:193:LEU:HD13	6:AF:223:LEU:HB3	1.64	0.78
8:AH:60:HIS:O	8:AH:63:LEU:HB3	1.84	0.78
9:AJ:86:LYS:CD	11:AL:10:LYS:HE3	2.14	0.78
14:AO:114:VAL:HG11	14:AO:133:VAL:HA	1.65	0.78
15:AP:142:LYS:HG3	15:AP:143:VAL:N	1.97	0.78
16:AQ:35:VAL:HG22	16:AQ:103:ASP:OD1	1.83	0.78
19:AT:23:LYS:HE2	19:AT:67:ARG:NH1	1.97	0.78
22:AW:45:ARG:HE	22:AW:49:LEU:HG	1.48	0.78
36:B1:50:G:H2'	36:B1:51:G:C8	2.18	0.78
34:BA:789:U:O2'	36:B1:59:A:N1	2.17	0.78
34:BA:269:C:O2'	34:BA:270:A:H5'	1.81	0.78
34:BA:451:A:H61	34:BA:480:U:H2'	1.49	0.78
34:BA:872:A:O2'	34:BA:873:A:H3'	1.83	0.78
34:BA:969:A:C8	34:BA:969:A:H5'	2.16	0.78
43:BK:29:SER:CB	43:BK:32:LYS:HZ1	1.94	0.78
43:BK:36:LEU:HA	43:BK:39:LEU:HB2	1.65	0.78
45:BM:4:ILE:HG12	45:BM:100:THR:HG22	1.65	0.78
35:BB:72:C:C2	35:BB:73:A:C8	2.70	0.78
24:A0:28:LEU:HD12	24:A0:29:LEU:HD22	1.66	0.78
24:A0:38:VAL:HB	24:A0:39:PRO:CD	2.12	0.78
27:A3:37:LEU:HB2	27:A3:68:VAL:C	2.04	0.78
28:A4:17:GLN:HG2	28:A4:33:VAL:HG12	1.65	0.78
2:AA:1025:G:C1'	2:AA:1134:G:H4'	2.13	0.78
2:AA:1022:G:C2	2:AA:1139:G:N2	2.51	0.78
2:AA:1210:A:H1'	2:AA:1212:G:N2	1.98	0.78
2:AA:1500:G:H2'	2:AA:1501:C:H6	1.48	0.78
2:AA:1664:A:N3	2:AA:1665:A:N7	2.31	0.78
2:AA:1790:C:C5'	2:AA:1828:G:H1	1.96	0.78
2:AA:530:G:H1	2:AA:2021:C:H3'	1.47	0.78
2:AA:2681:C:O2'	2:AA:2682:U:C5'	2.30	0.78
2:AA:270(C):C:N4	2:AA:270(W):G:N1	2.31	0.78
2:AA:324:A:H2	2:AA:325:G:H1'	1.48	0.78
2:AA:442:G:HO2'	6:AF:46:TYR:HE1	1.31	0.78
2:AA:511:U:O4	2:AA:512:G:H1'	1.82	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:541:C:H42	2:AA:552:G:H1	1.31	0.78
2:AA:587:C:C2	2:AA:671:C:O4'	2.37	0.78
2:AA:839:U:H4'	2:AA:1191:G:N3	1.98	0.78
2:AA:880:G:H2'	2:AA:881:G:H5'	1.64	0.78
1:AB:87:G:H2'	1:AB:89:G:N7	1.98	0.78
4:AD:166:LYS:HB2	4:AD:171:VAL:HA	1.63	0.78
5:AE:76:PRO:HA	5:AE:292:PRO:CB	2.13	0.78
6:AF:144:PHE:HE2	6:AF:156:LEU:CD2	1.95	0.78
6:AF:218:VAL:HG13	6:AF:222:ASP:OD2	1.83	0.78
11:AL:109:ALA:HB3	11:AL:125:MET:SD	2.24	0.78
11:AL:93:LYS:HA	11:AL:96:ILE:HD12	1.65	0.78
13:AN:7:ARG:C	13:AN:8:LEU:HD23	2.03	0.78
14:AO:64:ILE:HG22	14:AO:108:VAL:HG22	1.63	0.78
16:AQ:18:THR:HG1	16:AQ:20:TYR:HD1	1.29	0.78
21:AV:168:VAL:CG1	21:AV:169:VAL:N	2.45	0.78
21:AV:3:LEU:HD13	21:AV:34:LEU:CD2	2.14	0.78
22:AW:7:GLU:HG2	22:AW:8:ILE:N	1.96	0.78
34:BA:1026:G:C2'	34:BA:1027:C:H5'	2.12	0.78
34:BA:1097:C:H2'	34:BA:1098:C:H6	1.47	0.78
34:BA:1131:G:OP2	44:BL:20:ARG:NH2	2.15	0.78
34:BA:517:G:H5'	34:BA:519:C:C4	2.17	0.78
35:BB:74:C:OP1	35:BB:74:C:H4'	1.83	0.78
39:BG:101:LEU:HB2	39:BG:138:TYR:HB3	1.66	0.78
39:BG:35:ARG:O	39:BG:37:PRO:HD3	1.83	0.78
41:BI:42:GLU:HG3	41:BI:61:LEU:CD2	2.13	0.78
41:BI:7:ASN:OD1	41:BI:62:TRP:HB2	1.84	0.78
44:BL:98:PRO:C	44:BL:100:GLY:H	1.86	0.78
46:BN:84:VAL:HG21	46:BN:110:ASP:HA	1.64	0.78
10:AK:124:LEU:CD1	10:AK:145:VAL:HG12	2.13	0.78
24:A0:86:ARG:NH2	24:A0:118:GLU:HG3	1.98	0.78
24:A0:83:ILE:HG23	24:A0:86:ARG:NE	1.98	0.78
25:A1:21:ALA:HB1	25:A1:24:PHE:CZ	2.19	0.78
2:AA:1215:G:H5''	25:A1:8:ILE:HG21	1.63	0.78
25:A1:92:ARG:O	25:A1:95:LEU:HG	1.84	0.78
26:A2:38:LEU:HD23	26:A2:38:LEU:N	1.98	0.78
26:A2:40:VAL:HG12	26:A2:51:ALA:O	1.81	0.78
27:A3:42:GLY:HA3	27:A3:65:GLY:O	1.82	0.78
28:A4:67:TYR:C	28:A4:68:ARG:HG3	2.02	0.78
29:A5:18:MET:O	29:A5:21:SER:CB	2.30	0.78
30:A6:39:LYS:O	30:A6:40:TYR:HD1	1.66	0.78
2:AA:126:A:N7	2:AA:127:A:C4	2.51	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1598:C:O3'	19:AT:33:SER:OG	2.02	0.78
2:AA:1634:A:O2'	2:AA:1635:G:OP1	2.00	0.78
2:AA:2180:U:H2'	2:AA:2181:G:O4'	1.84	0.78
2:AA:2561:A:H2'	2:AA:2562:U:O5'	1.83	0.78
2:AA:303:U:H2'	2:AA:304:G:H8	1.47	0.78
2:AA:401:A:H2'	2:AA:402:A:C8	2.14	0.78
2:AA:35:G:O4'	2:AA:454:A:H1'	1.84	0.78
2:AA:261:G:O4'	2:AA:608:A:C2	2.37	0.78
2:AA:642:G:N2	2:AA:646:A:H61	1.77	0.78
2:AA:677:A:O2'	2:AA:678:C:H5'	1.84	0.78
2:AA:810:U:OP1	2:AA:1253:A:N7	2.16	0.78
2:AA:976:C:C5'	2:AA:1156:A:N6	2.46	0.78
1:AB:79:C:H42	1:AB:97:G:H1	1.32	0.78
5:AE:107:GLU:HB3	5:AE:110:ARG:HD2	1.65	0.78
8:AH:109:SER:OG	8:AH:110:HIS:N	2.16	0.78
8:AH:148:ARG:NH2	8:AH:164:GLU:H	1.81	0.78
8:AH:40:MET:C	8:AH:54:PRO:HG3	2.04	0.78
13:AN:11:ALA:HB1	13:AN:99:PHE:HB3	1.65	0.78
20:AU:18:GLU:O	20:AU:21:LYS:CG	2.32	0.78
21:AV:103:ARG:CG	21:AV:139:THR:HG22	2.08	0.78
21:AV:112:LEU:HD13	21:AV:142:ASN:OD1	1.83	0.78
21:AV:92:VAL:O	21:AV:94:VAL:HG23	1.83	0.78
34:BA:1192:C:C6	34:BA:1192:C:C3'	2.65	0.78
34:BA:1326:C:OP2	56:BX:6:ARG:CZ	2.31	0.78
34:BA:226:G:O2'	34:BA:227:G:H5'	1.84	0.78
34:BA:22:G:C1'	34:BA:914:A:N6	2.46	0.78
34:BA:266:G:H4'	34:BA:267:C:H5	1.48	0.78
34:BA:656:C:O2'	34:BA:657:G:H5'	1.84	0.78
34:BA:952:U:H5'	34:BA:972:C:H41	1.46	0.78
34:BA:983:A:H2	34:BA:984:C:H6	1.30	0.78
34:BA:530:G:C8	35:BB:35:A:C1'	2.66	0.78
35:BB:53:G:H2'	35:BB:54:U:C5'	2.13	0.78
37:BE:17:PHE:HA	37:BE:42:ILE:HG21	1.64	0.78
39:BG:150:GLU:CD	39:BG:150:GLU:H	1.86	0.78
40:BH:84:PHE:HB2	40:BH:134:ALA:CB	2.12	0.78
41:BI:78:GLU:O	41:BI:81:ILE:HD12	1.83	0.78
47:BO:24:VAL:HG22	47:BO:98:TYR:CZ	2.16	0.78
48:BP:20:THR:HA	48:BP:25:ILE:CB	2.14	0.78
52:BT:51:TYR:HD1	52:BT:51:TYR:H	1.32	0.78
34:BA:1244:C:OP1	56:BX:9:ARG:HD3	1.83	0.78
25:A1:99:ALA:HB2	25:A1:106:PHE:CZ	2.18	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A1:55:ARG:CA	25:A1:58:ARG:HE	1.96	0.78
31:A7:43:THR:O	31:A7:46:ASP:N	2.15	0.78
2:AA:1024:G:N7	2:AA:1025:G:N7	2.31	0.78
2:AA:1084:A:O4'	9:AI:38:ALA:CB	2.31	0.78
2:AA:1152:C:C2'	2:AA:1153:C:H5'	2.12	0.78
2:AA:1655:A:O2'	2:AA:1656:C:H5'	1.83	0.78
2:AA:1772:G:C2'	2:AA:1773:A:H4'	2.06	0.78
2:AA:1880:C:O2	2:AA:1880:C:H2'	1.82	0.78
2:AA:2011:U:H2'	2:AA:2012:G:O4'	1.82	0.78
2:AA:2051:A:C5'	2:AA:2578:G:H5''	2.14	0.78
2:AA:2147:G:H2'	2:AA:2148:G:H8	1.48	0.78
2:AA:2211:G:OP1	2:AA:2212:A:H5'	1.81	0.78
2:AA:2280:G:C6	2:AA:2281:C:N4	2.52	0.78
2:AA:2295:C:H2'	2:AA:2296:U:H5'	1.66	0.78
2:AA:2575:C:H5'	5:AE:241:TRP:NE1	1.98	0.78
2:AA:2867:G:H5'	2:AA:2868:A:H5'	1.64	0.78
2:AA:324:A:N3	2:AA:324:A:H2'	1.99	0.78
2:AA:715:G:C3'	2:AA:715:G:OP2	2.27	0.78
2:AA:833:U:H2'	2:AA:834:C:C6	2.19	0.78
2:AA:998:C:H42	2:AA:1157:G:H1	1.28	0.78
3:AC:14:VAL:HG11	3:AC:222:VAL:HG23	1.64	0.78
2:AA:1818:U:C5	4:AD:155:ARG:CZ	2.66	0.78
5:AE:76:PRO:CB	5:AE:77:PRO:HD3	2.04	0.78
6:AF:53:GLY:C	6:AF:54:LEU:CG	2.51	0.78
6:AF:58:ALA:CB	6:AF:79:ARG:N	2.46	0.78
23:AX:26:LEU:HD13	23:AX:47:VAL:CG2	2.13	0.78
34:BA:1054:C:OP2	34:BA:1196:U:O3'	2.02	0.78
34:BA:1060:C:H5'	45:BM:52:GLY:H	1.49	0.78
34:BA:1124:G:H3'	34:BA:1145:C:H41	1.45	0.78
34:BA:1466:C:H2'	34:BA:1467:G:C8	2.19	0.78
34:BA:190:C:H2'	34:BA:190(A):C:C6	2.16	0.78
34:BA:1361:G:N7	34:BA:361(A):C:C5	2.51	0.78
34:BA:619:U:C4	39:BG:135:LEU:HD21	2.18	0.78
34:BA:646:U:H2'	34:BA:647:C:C6	2.19	0.78
35:BB:32:C:C4	35:BB:33:U:N3	2.52	0.78
38:BF:12:LEU:HD22	38:BF:16:ARG:C	2.03	0.78
38:BF:172:ARG:HH22	38:BF:203:PHE:HE2	1.28	0.78
38:BF:28:GLN:NE2	38:BF:29:TYR:H	1.81	0.78
41:BI:83:ASP:CG	41:BI:84:ASN:N	2.35	0.78
47:BO:72:GLY:HA3	47:BO:102:ARG:HH11	1.49	0.78
49:BQ:60:SER:O	49:BQ:61:TRP:HB3	1.82	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BS:32:TYR:CE2	51:BS:35:LYS:HB2	2.19	0.78
52:BT:5:VAL:HA	52:BT:59:ILE:O	1.84	0.78
56:BX:24:ARG:O	56:BX:25:LYS:HB2	1.82	0.78
34:BA:1236:A:OP1	56:BX:2:GLY:N	2.15	0.78
35:BB:37:G:C8	35:BB:38:A:C8	2.72	0.78
18:AS:86:LEU:HD13	18:AS:87:PRO:HD2	1.65	0.78
2:AA:1116:C:H6	2:AA:1116:C:OP2	1.66	0.78
2:AA:1039:G:N2	2:AA:1040:C:H1'	1.99	0.78
24:A0:58:GLY:O	24:A0:59:ASP:HB3	1.82	0.78
26:A2:33:VAL:HB	26:A2:63:HIS:CG	2.18	0.78
26:A2:68:LYS:C	26:A2:69:ILE:HD12	2.03	0.78
30:A6:16:ALA:C	30:A6:18:THR:N	2.36	0.78
30:A6:5:GLY:C	30:A6:7:ARG:H	1.84	0.78
2:AA:1291:C:C2'	2:AA:1292:U:H5'	2.14	0.78
2:AA:1355:G:H2'	2:AA:1356:G:H8	1.49	0.78
2:AA:1473:G:C2'	2:AA:1474:C:O4'	2.32	0.78
2:AA:1742:C:H2'	2:AA:1743:G:C1'	2.13	0.78
2:AA:1859:A:C2'	2:AA:1860:G:H5'	2.13	0.78
2:AA:1862:G:N2	2:AA:1880:C:N3	2.28	0.78
2:AA:274:G:C2'	2:AA:275:G:H5'	2.13	0.78
2:AA:541:C:H2'	2:AA:542:C:C6	2.19	0.78
2:AA:58:G:C2'	2:AA:73:A:N6	2.47	0.78
2:AA:842:G:H2'	2:AA:843:G:H8	1.47	0.78
2:AA:854:G:H2'	2:AA:855:G:C8	2.16	0.78
2:AA:914:C:H2'	2:AA:915:C:H5'	1.63	0.78
4:AD:89:ASN:O	4:AD:90:ILE:CD1	2.27	0.78
5:AE:74:GLU:HA	5:AE:293:TYR:HE2	1.48	0.78
1:AB:59:A:H5'	7:AG:144:ARG:HD3	1.65	0.78
9:AI:115:LYS:CE	9:AI:127:LEU:HB3	2.14	0.78
2:AA:1081:U:H4'	11:AL:123:ALA:HB1	1.66	0.78
13:AN:34:ASN:C	13:AN:62:VAL:HG11	2.04	0.78
15:AP:67:ALA:HB2	15:AP:70:ARG:NH1	1.99	0.78
17:AR:13:ILE:CG1	17:AR:33:SER:HB2	2.13	0.78
34:BA:1127:G:H1'	34:BA:1148:U:N3	1.99	0.78
34:BA:1129:C:OP1	34:BA:1130:A:OP1	2.02	0.78
34:BA:1505:G:H4'	34:BA:1506:U:O5'	1.84	0.78
34:BA:203:U:H5''	34:BA:204:U:OP1	1.83	0.78
34:BA:123:C:OP1	34:BA:311:C:O2'	2.01	0.78
34:BA:523:A:H8	34:BA:523:A:O5'	1.66	0.78
34:BA:8:A:N6	39:BG:209:ARG:HB2	1.98	0.78
37:BE:169:LYS:HD3	37:BE:170:GLU:N	1.98	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BF:155:GLY:HA2	38:BF:164:ARG:O	1.83	0.78
43:BK:86:ILE:HB	43:BK:133:LEU:O	1.84	0.78
46:BN:62:GLN:NE2	46:BN:63:LEU:H	1.81	0.78
47:BO:8:ASN:O	47:BO:11:VAL:HB	1.82	0.78
47:BO:82:VAL:HG12	47:BO:83:VAL:H	1.46	0.78
53:BU:53:ARG:NH1	53:BU:60:GLY:N	2.30	0.78
48:BP:120:LYS:C	48:BP:121:LYS:HD2	2.04	0.78
1:AB:12:C:H5	27:A3:53:MET:O	1.67	0.78
9:AI:16:SER:OG	9:AJ:105:GLY:CA	2.31	0.78
41:BI:94:GLN:NE2	41:BI:94:GLN:H	1.82	0.78
24:A0:19:ALA:O	24:A0:22:ARG:HB3	1.84	0.78
24:A0:23:ASN:OD1	24:A0:24:GLN:HG2	1.84	0.78
2:AA:997:G:OP1	25:A1:93:LYS:HE2	1.82	0.78
31:A7:28:ARG:HA	31:A7:31:LEU:CD1	2.12	0.78
31:A7:6:GLN:CD	31:A7:6:GLN:N	2.33	0.78
2:AA:1012:U:C3'	2:AA:1012:U:C6	2.64	0.78
2:AA:1026:U:H2'	2:AA:1027:A:O5'	1.83	0.78
2:AA:1111:A:O2'	2:AA:1112:G:O4'	2.00	0.78
2:AA:111:A:C3'	2:AA:112:U:H5''	2.14	0.78
2:AA:1562:A:H2'	2:AA:1563:G:C8	2.18	0.78
2:AA:1627:G:H1	2:AA:1639:U:H3	1.28	0.78
2:AA:1636:C:H1'	2:AA:1761:C:O2	1.84	0.78
2:AA:2014:A:N6	2:AA:2015:A:H61	1.82	0.78
2:AA:2023:G:N1	2:AA:2040:C:N4	2.29	0.78
2:AA:2331:G:H4'	27:A3:70:ILE:HG13	1.66	0.78
2:AA:2491:U:O2'	2:AA:2492:U:H5'	1.83	0.78
2:AA:2539:C:O2'	2:AA:2540:C:H5'	1.84	0.78
2:AA:274:G:O5'	2:AA:274:G:N3	2.17	0.78
2:AA:2868:A:O2'	2:AA:2869:G:H5'	1.82	0.78
2:AA:326:G:H22	2:AA:337:C:H1'	0.78	0.78
2:AA:407:G:N2	2:AA:420:C:N3	2.31	0.78
6:AF:197:SER:CB	6:AF:239:ALA:N	2.46	0.78
12:AM:108:PRO:HG2	12:AM:109:TYR:HD1	1.47	0.78
13:AN:106:LEU:HD12	13:AN:114:ILE:HG21	1.65	0.78
18:AS:30:GLU:HA	18:AS:33:ARG:CD	2.11	0.78
23:AX:30:ARG:CG	23:AX:30:ARG:HH11	1.96	0.78
34:BA:49:U:C6	34:BA:364:A:N6	2.51	0.78
34:BA:437:U:C2'	34:BA:438:G:H5'	2.14	0.78
34:BA:452:A:N6	34:BA:480:U:N3	2.32	0.78
34:BA:51:A:O2'	34:BA:52:G:P	2.41	0.78
34:BA:652:U:H1'	34:BA:653:A:H2	1.46	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:902:G:O2'	34:BA:903:G:H5'	1.84	0.78
34:BA:950:U:H2'	34:BA:951:G:H5'	1.66	0.78
35:BB:7:U:N3	35:BB:67:A:C2	2.51	0.78
37:BE:185:ILE:HG22	37:BE:199:TYR:CB	2.13	0.78
40:BH:107:ARG:HG2	40:BH:111:GLU:CD	2.04	0.78
40:BH:74:GLY:O	40:BH:115:VAL:HG12	1.83	0.78
41:BI:52:ILE:O	41:BI:55:ASP:HB2	1.83	0.78
48:BP:84:ILE:CG1	48:BP:85:GLY:H	1.88	0.78
55:BW:60:GLU:OE1	55:BW:81:LYS:HE3	1.83	0.78
21:AV:26:LYS:HB3	21:AV:27:GLU:OE2	1.84	0.78
2:AA:54:G:C1'	31:A7:35:ARG:HH22	1.96	0.78
2:AA:1803:A:N7	2:AA:1804:C:C5	2.52	0.78
2:AA:1819:A:H4'	2:AA:1820:U:H5'	1.66	0.78
2:AA:1941:C:O2	2:AA:1941:C:H2'	1.83	0.78
2:AA:2051:A:H4'	5:AE:238:LEU:HD23	1.65	0.78
2:AA:2464:C:H42	2:AA:2486:G:H1	0.81	0.78
2:AA:270(J):G:O6	2:AA:270(P):C:N3	2.16	0.78
2:AA:2805:G:H3'	2:AA:2807:G:C5'	2.13	0.78
2:AA:37:C:H4'	2:AA:451:C:H5''	1.65	0.78
2:AA:648:G:N3	2:AA:649:G:C8	2.52	0.78
2:AA:869:G:H2'	2:AA:870:A:H5''	1.66	0.78
5:AE:198:TYR:HD2	5:AE:265:ASN:C	1.87	0.78
6:AF:82:GLN:H	6:AF:87:ARG:CD	1.97	0.78
8:AH:51:VAL:HG13	8:AH:64:HIS:HB3	1.64	0.78
12:AM:10:VAL:HG12	12:AM:36:VAL:HG13	1.66	0.78
15:AP:26:LYS:NZ	15:AP:90:PHE:CE1	2.49	0.78
16:AQ:27:LEU:N	16:AQ:33:ARG:HH12	1.82	0.78
18:AS:42:ARG:CG	18:AS:43:GLY:H	1.96	0.78
2:AA:519:U:H4'	18:AS:75:TYR:HB3	1.66	0.78
34:BA:106:C:O2	34:BA:379:C:H5'	1.84	0.78
34:BA:1157:A:H1'	34:BA:1181:G:N3	1.99	0.78
34:BA:1195:C:O5'	34:BA:1195:C:H6	1.66	0.78
34:BA:306:G:H2'	34:BA:307:C:C6	2.19	0.78
34:BA:378:G:N1	34:BA:385:C:N4	2.02	0.78
34:BA:501:C:H2'	34:BA:502:G:H8	1.49	0.78
35:BC:32:C:O2	35:BC:32:C:H2'	1.84	0.78
40:BH:35:GLY:CA	40:BH:112:LEU:HD12	2.13	0.78
40:BH:15:ARG:HH11	40:BH:15:ARG:HG3	1.49	0.78
41:BI:95:GLU:CB	41:BI:96:PRO:HD3	2.12	0.78
34:BA:137:C:H1'	51:BS:63:GLY:H	1.48	0.78
51:BS:6:LEU:O	51:BS:6:LEU:CD2	2.31	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:110:LEU:HD11	10:AK:114:LYS:NZ	1.99	0.78
40:BH:39:GLY:C	40:BH:69:VAL:HG23	2.05	0.78
26:A2:20:ILE:HG12	26:A2:67:LYS:NZ	1.98	0.78
26:A2:35:LEU:C	26:A2:60:VAL:HG22	2.04	0.78
31:A7:30:ILE:HD13	31:A7:33:ARG:NH1	1.99	0.78
2:AA:1202:C:N3	2:AA:1243:G:N2	2.28	0.78
2:AA:582:G:H1	2:AA:1258:C:H42	1.30	0.78
2:AA:13:A:C6	2:AA:525:U:H2'	2.19	0.78
2:AA:1406:U:C2'	2:AA:1407:C:O5'	2.32	0.78
2:AA:1517:G:C2'	2:AA:1518:C:H5'	2.13	0.78
2:AA:1668:A:N1	2:AA:1674:G:H1'	1.98	0.78
2:AA:1786:A:C2	2:AA:1938:A:N1	2.51	0.78
2:AA:2210:G:H4'	2:AA:2211:G:C5'	2.13	0.78
2:AA:2297:C:H2'	2:AA:2298:A:H8	1.48	0.78
2:AA:239:U:O2'	2:AA:240:G:H5'	1.84	0.78
2:AA:2525:G:C2	2:AA:2539:C:C4	2.71	0.78
2:AA:2700:C:H3'	2:AA:2701:C:H5''	1.65	0.78
2:AA:30:G:N2	2:AA:511:U:H1'	1.97	0.78
2:AA:356:G:H2'	2:AA:357:A:C8	2.18	0.78
2:AA:449:A:OP2	6:AF:85:LYS:CA	2.30	0.78
2:AA:853:G:H1	2:AA:924:C:N4	1.82	0.78
3:AC:14:VAL:HG12	3:AC:15:ASP:H	1.49	0.78
4:AD:140:VAL:HA	4:AD:191:VAL:HA	1.66	0.78
5:AE:44:TYR:CZ	5:AE:308:VAL:HG22	2.19	0.78
6:AF:93:LYS:HB2	6:AF:96:LYS:CG	2.13	0.78
7:AG:140:ARG:HD2	7:AG:144:ARG:NH2	1.98	0.78
8:AH:25:VAL:HB	8:AH:32:LEU:HD22	1.65	0.78
9:AI:60:ASP:HB2	9:AI:128:LYS:HD3	1.64	0.78
14:AO:67:ARG:HH11	14:AO:111:ALA:HB3	1.48	0.78
2:AA:2250:G:H5'	15:AP:102:ARG:HD3	1.65	0.78
16:AQ:89:GLY:HA3	16:AQ:125:ALA:HB1	1.65	0.78
20:AU:20:HIS:O	20:AU:23:VAL:HB	1.84	0.78
34:BA:1283:G:O2'	34:BA:1284:C:H5'	1.82	0.78
34:BA:451:A:O2'	34:BA:452:A:C8	2.35	0.78
34:BA:596:C:H42	34:BA:644:G:H1	1.32	0.78
34:BA:713:G:H2'	34:BA:714:G:N7	1.99	0.78
34:BA:667:G:H1	34:BA:739:C:H42	1.32	0.78
35:BC:17:U:C4	35:BC:19:G:C8	2.72	0.78
37:BE:12:GLU:O	37:BE:14:GLY:N	2.18	0.78
38:BF:157:ILE:HG21	38:BF:164:ARG:HE	1.47	0.78
38:BF:56:ASP:HB2	38:BF:69:HIS:NE2	1.98	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BI:21:LEU:O	41:BI:24:GLU:HG3	1.83	0.78
43:BK:44:PHE:CE2	43:BK:109:ILE:HG21	2.17	0.78
43:BK:97:VAL:HG13	43:BK:98:LYS:NZ	1.99	0.78
55:BW:77:ALA:O	55:BW:80:ARG:HB2	1.83	0.78
10:AK:95:SER:O	10:AK:98:ILE:HB	1.83	0.78
2:AA:1050:A:C2'	2:AA:1051:G:H5'	2.12	0.78
25:A1:97:ASP:O	25:A1:100:ALA:HB3	1.83	0.77
26:A2:50:ASP:OD1	26:A2:53:LYS:HE3	1.84	0.77
2:AA:125:G:H5''	31:A7:19:ARG:HH11	0.79	0.77
31:A7:38:GLY:O	31:A7:39:ARG:HB2	1.83	0.77
2:AA:1023:U:H2'	2:AA:1024:G:C5'	2.14	0.77
2:AA:1022:G:C2	2:AA:1140:C:C5	2.71	0.77
2:AA:1165:U:HO2'	2:AA:1166:C:H6	1.25	0.77
2:AA:1324:G:H1'	2:AA:1616:A:N6	1.99	0.77
2:AA:1384:A:H1'	2:AA:1405:U:O4'	1.83	0.77
2:AA:1661:G:O2'	2:AA:1662:C:H5'	1.84	0.77
2:AA:1676:A:H2'	2:AA:1677:A:C8	2.17	0.77
2:AA:2021:C:C2'	2:AA:2021:C:O2	2.31	0.77
2:AA:2116:G:OP2	3:AC:126:LYS:CB	2.32	0.77
2:AA:2132:U:O2	2:AA:2133:G:N3	2.16	0.77
2:AA:2136:C:N3	2:AA:2155:G:C2	2.53	0.77
2:AA:2086:U:N3	2:AA:2233:U:O4	2.17	0.77
2:AA:2295:C:C2'	2:AA:2296:U:H5'	2.13	0.77
2:AA:2424:C:O2'	2:AA:2429:G:O2'	2.00	0.77
2:AA:2644:G:H8	2:AA:2644:G:O5'	1.65	0.77
2:AA:2694:G:C6	2:AA:2695:C:C5	2.72	0.77
2:AA:283:A:N7	2:AA:284:U:H5	1.82	0.77
2:AA:307:G:N2	2:AA:310:A:O4'	2.16	0.77
2:AA:408:G:H2'	2:AA:409:C:O4'	1.84	0.77
2:AA:444(A):A:H5''	2:AA:1445:C:OP1	1.84	0.77
2:AA:697:C:OP2	2:AA:1555:G:N2	2.17	0.77
2:AA:749:C:H2'	2:AA:750:A:H8	1.48	0.77
2:AA:911:A:N6	15:AP:15:THR:O	2.17	0.77
1:AB:5:C:H2'	1:AB:6:C:C6	2.18	0.77
4:AD:66:PHE:CD2	4:AD:67:LYS:HE3	2.16	0.77
7:AG:81:GLU:O	7:AG:85:GLN:CG	2.32	0.77
8:AH:145:ALA:HA	8:AH:148:ARG:HB2	1.66	0.77
9:AJ:22:VAL:HG13	9:AJ:38:ALA:HB1	1.66	0.77
10:AK:51:LYS:O	10:AK:55:GLN:HG3	1.83	0.77
13:AN:1:MET:N	13:AN:32:TYR:CB	2.47	0.77
16:AQ:111:PRO:O	16:AQ:116:PHE:HB2	1.82	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:85:VAL:HA	18:AS:95:ILE:HG12	1.63	0.77
21:AV:117:VAL:HB	21:AV:167:THR:HB	1.66	0.77
21:AV:72:ASP:OD2	21:AV:78:PRO:HA	1.83	0.77
22:AW:59:ILE:HG23	22:AW:60:GLN:N	1.99	0.77
36:B1:66:G:H2'	36:B1:67:U:H5'	1.66	0.77
34:BA:1139:G:N2	34:BA:1143:G:N1	2.29	0.77
34:BA:1192:C:C5	34:BA:1193:G:C8	2.72	0.77
34:BA:1363:A:H1'	34:BA:1365:G:N7	1.99	0.77
34:BA:1392:G:H2'	34:BA:1393:U:H6	1.40	0.77
34:BA:1399:C:C4	34:BA:1502:A:N6	2.51	0.77
34:BA:507:C:H2'	34:BA:508:C:H5	1.48	0.77
35:BB:19:G:O2'	35:BB:20:G:P	2.41	0.77
2:AA:2451:A:H4'	35:BC:75:C:N4	1.97	0.77
37:BE:165:VAL:O	37:BE:187:LEU:O	1.99	0.77
40:BH:81:GLU:CB	40:BH:90:VAL:HG22	2.02	0.77
44:BL:15:ALA:HA	44:BL:65:VAL:HG23	1.66	0.77
45:BM:24:VAL:HG12	45:BM:28:ARG:HE	1.47	0.77
47:BO:93:LEU:HD23	47:BO:93:LEU:N	1.98	0.77
48:BP:2:ALA:C	48:BP:4:ILE:H	1.85	0.77
56:BX:10:ARG:NH2	56:BX:13:ILE:HD12	1.99	0.77
34:BA:1286:A:C5'	56:BX:25:LYS:HG2	2.13	0.77
24:A0:67:LEU:C	24:A0:67:LEU:HD13	2.04	0.77
27:A3:48:GLY:H	27:A3:49:GLN:HE21	1.32	0.77
2:AA:1183:G:C3'	2:AA:1183:G:OP2	2.28	0.77
2:AA:1212:G:N1	2:AA:1236:G:O6	2.17	0.77
2:AA:1467:C:C5	2:AA:1468:C:H5	2.02	0.77
2:AA:1762:A:C8	2:AA:1762:A:H3'	2.19	0.77
2:AA:1809:A:N6	28:A4:3:LYS:CG	2.43	0.77
2:AA:2230:G:H2'	2:AA:2231:C:H6	1.49	0.77
2:AA:2254:C:O2'	2:AA:2255:G:H5'	1.83	0.77
2:AA:2436:G:O2'	2:AA:2598:A:N1	2.17	0.77
2:AA:2810:A:H62	2:AA:2891:G:H21	1.28	0.77
2:AA:38:A:H2'	2:AA:39:C:C6	2.19	0.77
2:AA:580:C:H2'	2:AA:581:C:H6	1.45	0.77
2:AA:617:G:H2'	2:AA:618:G:C8	2.19	0.77
2:AA:931:G:H2'	2:AA:932:G:N9	1.98	0.77
1:AB:13:A:N6	1:AB:70:C:H5'	2.00	0.77
3:AC:190:ARG:HB2	3:AC:190:ARG:CZ	2.15	0.77
4:AD:145:LEU:HD13	4:AD:146:LYS:NZ	1.99	0.77
5:AE:200:ASP:O	5:AE:311:PHE:HA	1.84	0.77
5:AE:82:ALA:HB2	5:AE:99:VAL:H	1.49	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:55:ARG:C	6:AF:79:ARG:HH21	1.86	0.77
1:AB:59:A:OP1	7:AG:141:VAL:HG22	1.84	0.77
9:AI:10:ILE:O	9:AI:18:LEU:HD21	1.84	0.77
9:AI:17:GLU:HG3	9:AJ:104:SER:O	1.84	0.77
12:AM:53:ILE:CG2	12:AM:135:ILE:HD11	2.14	0.77
12:AM:87:LEU:HD13	12:AM:98:PHE:CZ	2.19	0.77
14:AO:55:GLN:CG	14:AO:56:LYS:H	1.96	0.77
18:AS:23:LEU:CD2	29:A5:27:ALA:HB2	2.14	0.77
34:BA:1044:A:H2'	34:BA:1045:C:O4'	1.84	0.77
34:BA:1163:C:O2'	34:BA:1164:G:H5'	1.83	0.77
34:BA:1448:C:N3	34:BA:1455:G:N2	2.30	0.77
38:BF:157:ILE:HB	38:BF:164:ARG:HD3	1.65	0.77
41:BI:10:LEU:HD21	41:BI:26:ILE:HD11	1.65	0.77
34:BA:673:G:H5'	41:BI:87:ARG:HE	1.49	0.77
34:BA:1373:G:H4'	42:BJ:36:LYS:HZ2	1.48	0.77
46:BN:19:ALA:HB2	46:BN:80:VAL:HG11	1.66	0.77
51:BS:58:TYR:CD1	51:BS:58:TYR:C	2.58	0.77
52:BT:28:PRO:HA	52:BT:35:VAL:HA	1.64	0.77
56:BX:9:ARG:CZ	56:BX:21:TYR:HB3	2.14	0.77
35:BB:41:U:C4'	35:BB:41:U:C6	2.65	0.77
10:AK:104:ALA:HB3	10:AK:105:GLN:OE1	1.83	0.77
29:A5:40:LYS:NZ	29:A5:49:CYS:CB	2.46	0.77
31:A7:30:ILE:HA	31:A7:33:ARG:HG3	1.65	0.77
2:AA:1255:U:H5''	2:AA:1256:G:O5'	1.84	0.77
2:AA:1298:C:H4'	2:AA:1302:A:N6	1.99	0.77
2:AA:1771:C:H42	2:AA:1980:G:H1	0.80	0.77
2:AA:205:G:O2'	2:AA:206:U:P	2.41	0.77
2:AA:2468:G:H22	2:AA:2481:G:C2'	1.97	0.77
2:AA:2597:G:H2'	2:AA:2598:A:C8	2.19	0.77
2:AA:2605:U:O2	2:AA:2606:C:C5	2.38	0.77
2:AA:2792:G:N1	2:AA:2804:C:N4	2.33	0.77
2:AA:2825:C:H2'	2:AA:2826:A:O4'	1.83	0.77
2:AA:301:G:H2'	2:AA:302:C:H6	1.50	0.77
2:AA:809:G:C5	2:AA:810:U:C5	2.72	0.77
2:AA:969:U:H2'	2:AA:970:C:C6	2.17	0.77
1:AB:88:C:H3'	1:AB:88:C:C6	2.20	0.77
7:AG:128:LEU:O	7:AG:129:ASP:HB2	1.84	0.77
8:AH:34:ARG:HH22	8:AH:74:MET:N	1.81	0.77
2:AA:1083:U:C3'	9:AI:37:VAL:CA	2.62	0.77
11:AL:73:PRO:HB2	11:AL:78:LEU:HD21	1.64	0.77
12:AM:50:GLU:O	12:AM:54:VAL:HG23	1.85	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:102:VAL:HG11	13:AN:106:LEU:CD1	2.13	0.77
16:AQ:110:THR:HG23	16:AQ:114:LYS:HB2	1.64	0.77
18:AS:6:ILE:HG13	18:AS:104:THR:HG23	1.66	0.77
23:AX:52:HIS:ND1	23:AX:53:LEU:N	2.31	0.77
34:BA:1488:G:H2'	34:BA:1489:G:H8	1.49	0.77
34:BA:279:A:H5''	34:BA:280:C:H3'	1.66	0.77
34:BA:522:C:N4	34:BA:523:A:N6	2.33	0.77
34:BA:555:C:H2'	34:BA:555:C:O2	1.82	0.77
34:BA:795:C:H6	34:BA:795:C:O5'	1.66	0.77
34:BA:922:G:H5'	40:BH:19:MET:O	1.83	0.77
37:BE:16:HIS:CD2	37:BE:214:ILE:HD11	2.19	0.77
37:BE:56:ARG:CB	37:BE:56:ARG:HH11	1.97	0.77
40:BH:95:ALA:CB	40:BH:96:PRO:CD	2.60	0.77
44:BL:55:ALA:HB3	44:BL:58:ARG:CZ	2.13	0.77
46:BN:111:ASP:OD2	46:BN:113:PRO:CD	2.31	0.77
52:BT:40:LYS:HE2	52:BT:42:TYR:HE1	1.49	0.77
53:BU:59:SER:N	53:BU:62:GLU:HB2	1.99	0.77
25:A1:11:ARG:HG2	25:A1:12:ARG:N	2.00	0.77
27:A3:46:LYS:HZ3	27:A3:81:ILE:HD11	1.50	0.77
28:A4:20:VAL:O	28:A4:20:VAL:HG12	1.84	0.77
29:A5:57:VAL:CG1	29:A5:58:LEU:N	2.48	0.77
2:AA:1158:C:H4'	23:AX:32:GLN:OE1	1.83	0.77
2:AA:1238:G:C2	2:AA:1239:G:H1'	2.20	0.77
2:AA:133:C:H2'	2:AA:134:C:H6	1.50	0.77
2:AA:1625:C:O2'	2:AA:1626:G:H5'	1.84	0.77
2:AA:1883:G:C2	2:AA:1884:A:H2	2.02	0.77
2:AA:2021:C:OP2	29:A5:12:SER:CB	2.31	0.77
2:AA:250:G:N3	2:AA:250:G:H2'	1.99	0.77
2:AA:270(Z):U:H4'	2:AA:270(Z):U:OP1	1.83	0.77
2:AA:2872:G:C2	2:AA:2873:A:N6	2.52	0.77
2:AA:461:C:N4	2:AA:469:G:H21	1.83	0.77
2:AA:63:U:H6	2:AA:63:U:H3'	1.47	0.77
2:AA:701:G:N1	2:AA:731:C:N4	1.96	0.77
4:AD:67:LYS:N	4:AD:67:LYS:CD	2.45	0.77
5:AE:271:ILE:HG12	5:AE:294:THR:CA	2.15	0.77
5:AE:317:PRO:O	5:AE:320:GLN:CG	2.32	0.77
6:AF:193:LEU:HB2	6:AF:233:THR:CB	2.13	0.77
7:AG:40:ILE:HG22	7:AG:44:ILE:HD11	1.67	0.77
8:AH:36:PHE:CZ	8:AH:70:LEU:HD22	2.19	0.77
8:AH:58:LYS:C	8:AH:61:ARG:HB3	2.03	0.77
10:AK:21:VAL:O	10:AK:26:ALA:HB2	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:24:VAL:HG11	13:AN:32:TYR:H	1.48	0.77
18:AS:76:VAL:HG22	18:AS:102:HIS:O	1.84	0.77
19:AT:56:ASN:O	19:AT:57:THR:HG23	1.85	0.77
21:AV:19:ILE:N	21:AV:36:ARG:HG3	1.97	0.77
21:AV:53:ASP:CA	21:AV:65:LEU:HD21	2.15	0.77
21:AV:67:LYS:HD3	21:AV:93:GLU:OE2	1.84	0.77
34:BA:1203:C:O2'	34:BA:1204:A:H5'	1.84	0.77
34:BA:501:C:H1'	34:BA:549:C:H1'	1.66	0.77
34:BA:750:G:N3	50:BR:23:GLY:O	2.18	0.77
35:BB:33:U:O4	35:BB:35:A:OP1	2.02	0.77
39:BG:8:VAL:HG13	39:BG:11:LEU:HD12	1.62	0.77
40:BH:43:LEU:HD23	40:BH:44:GLY:N	1.99	0.77
44:BL:67:GLY:O	44:BL:73:GLN:NE2	2.17	0.77
51:BS:5:ARG:C	51:BS:6:LEU:HD13	2.04	0.77
53:BU:66:LEU:HD12	53:BU:67:ALA:CA	2.15	0.77
34:BA:1320:C:N4	54:BV:36:ARG:NH1	2.27	0.77
35:BB:9:A:HO2'	35:BB:45:G:HO2'	1.28	0.77
42:BJ:86:GLN:CG	42:BJ:148:ASN:HD22	1.98	0.77
26:A2:5:ILE:N	26:A2:5:ILE:HD12	1.99	0.77
2:AA:1086:A:OP1	2:AA:1104:C:H4'	1.85	0.77
2:AA:1343:G:H3'	2:AA:1344:G:H5''	1.66	0.77
2:AA:1563:G:H2'	2:AA:1564:C:C6	2.17	0.77
2:AA:1591:G:H2'	2:AA:1592:C:H6	1.41	0.77
2:AA:1304:C:N4	2:AA:1624:G:H1	1.80	0.77
2:AA:1975:G:O2'	2:AA:1976:U:C5'	2.32	0.77
2:AA:2343:C:O2	2:AA:2344:U:C6	2.37	0.77
2:AA:2488:A:O2'	2:AA:2489:G:H5'	1.84	0.77
2:AA:2872:G:N2	2:AA:2873:A:N6	2.32	0.77
2:AA:481:G:H1	2:AA:509:C:H42	1.33	0.77
2:AA:530:G:H1'	2:AA:532:A:P	2.25	0.77
2:AA:880:G:H2'	2:AA:881:G:C5'	2.14	0.77
2:AA:962:G:H2'	2:AA:963:U:H6	1.45	0.77
6:AF:35:VAL:O	6:AF:39:GLN:NE2	2.17	0.77
8:AH:9:GLU:HA	8:AH:48:VAL:CG1	2.05	0.77
2:AA:1058:G:O2'	9:AI:3:ILE:N	2.18	0.77
9:AJ:115:LYS:CE	9:AJ:127:LEU:HB3	2.15	0.77
11:AL:100:VAL:HG12	11:AL:101:THR:N	1.99	0.77
16:AQ:19:ASP:C	16:AQ:21:HIS:N	2.31	0.77
34:BA:1004:A:H3'	34:BA:1025:U:C4	2.19	0.77
34:BA:1060:C:H2'	34:BA:1061:G:H8	1.49	0.77
34:BA:1244:C:N4	34:BA:1293:G:H1	1.81	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1274:G:N2	34:BA:1275:A:H62	1.82	0.77
34:BA:1502:A:H5''	34:BA:1503:A:OP2	1.83	0.77
34:BA:295:C:O2'	34:BA:296:U:H5'	1.84	0.77
34:BA:29:G:H5'	34:BA:296:U:OP1	1.83	0.77
34:BA:297:G:N2	34:BA:299:G:H3'	1.98	0.77
34:BA:300:A:H2'	34:BA:301:G:C5'	2.15	0.77
34:BA:453:A:H62	34:BA:480:U:H3	1.30	0.77
34:BA:650:G:O2'	34:BA:651:C:H5'	1.85	0.77
34:BA:981:U:H2'	34:BA:982:U:C5	2.19	0.77
39:BG:126:ILE:O	39:BG:132:ARG:HB3	1.84	0.77
42:BJ:47:CYS:HA	42:BJ:50:ILE:HD12	1.67	0.77
44:BL:6:GLY:HA3	44:BL:80:GLY:O	1.84	0.77
45:BM:84:GLN:HA	45:BM:88:LEU:CD1	2.06	0.77
34:BA:979:C:O2	49:BQ:19:ARG:NE	2.16	0.77
34:BA:974:A:C1'	49:BQ:31:ARG:HH21	1.90	0.77
52:BT:18:THR:HG23	52:BT:69:LYS:NZ	2.00	0.77
10:AK:102:LEU:HD12	10:AK:103:GLN:N	2.00	0.77
10:AK:82:LYS:O	10:AK:89:LEU:HD23	1.85	0.77
2:AA:2371:G:H5'	30:A6:46:LYS:CD	2.13	0.77
2:AA:976:C:H5'	2:AA:1156:A:H61	1.49	0.77
2:AA:1221:C:C2	2:AA:1229:G:N2	2.52	0.77
2:AA:142(A):A:C6	2:AA:1143:A:C5	2.73	0.77
2:AA:1492:G:N2	2:AA:1499:C:C4	2.53	0.77
2:AA:1835:G:H1	2:AA:1905:C:H42	1.32	0.77
2:AA:1878:G:O2'	2:AA:1879:C:H5'	1.84	0.77
2:AA:1934:C:C4'	2:AA:1974:C:H4'	2.15	0.77
2:AA:1936:A:H5''	2:AA:1937:A:H5'	1.67	0.77
2:AA:1938:A:O2'	2:AA:1939:U:OP1	2.01	0.77
2:AA:1992:G:O6	2:AA:1997:G:N3	2.17	0.77
2:AA:2013:A:H4'	18:AS:96:ILE:HG22	1.66	0.77
2:AA:2378:A:H1'	16:AQ:26:LEU:CD2	2.14	0.77
2:AA:2468:G:N2	2:AA:2481:G:C2'	2.47	0.77
2:AA:2044:C:C6	2:AA:2625:G:N2	2.52	0.77
2:AA:2654:A:H5''	2:AA:2655:G:OP1	1.85	0.77
2:AA:2687:U:C2	2:AA:2688:U:H6	2.02	0.77
2:AA:531:C:N3	2:AA:532:A:O2'	2.17	0.77
2:AA:647:G:H5'	2:AA:2352:A:H5''	1.67	0.77
2:AA:83:G:O6	2:AA:102:G:H2'	1.83	0.77
2:AA:918:A:H5'	2:AA:919:G:C8	2.18	0.77
3:AC:131:LEU:HD13	3:AC:136:LEU:O	1.85	0.77
4:AD:143:ILE:HD13	4:AD:153:LEU:C	2.05	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:213:LYS:O	4:AD:214:MET:HB2	1.82	0.77
11:AL:11:LEU:HD11	11:AL:28:LEU:HG	1.66	0.77
2:AA:2640:G:O2'	12:AM:70:PHE:HE2	1.66	0.77
21:AV:148:THR:HA	21:AV:168:VAL:CG2	2.14	0.77
23:AX:39:ASP:HA	23:AX:44:ARG:NH2	2.00	0.77
34:BA:1253:G:C6	34:BA:1285:A:N6	2.53	0.77
34:BA:1288:A:H2'	34:BA:1289:A:H8	1.47	0.77
34:BA:50:A:N6	34:BA:361:G:C4'	2.48	0.77
34:BA:530:G:N7	35:BB:35:A:O4'	2.18	0.77
34:BA:888:G:N2	34:BA:909:A:H62	1.79	0.77
39:BG:105:VAL:HG21	39:BG:121:VAL:HG22	1.65	0.77
39:BG:135:LEU:C	39:BG:137:SER:H	1.86	0.77
41:BI:42:GLU:HG3	41:BI:61:LEU:HD21	1.65	0.77
41:BI:80:ARG:HH11	41:BI:80:ARG:HG2	1.48	0.77
45:BM:4:ILE:HG23	45:BM:99:LYS:O	1.84	0.77
49:BQ:34:TYR:N	49:BQ:34:TYR:CD1	2.49	0.77
50:BR:74:ASP:OD1	50:BR:76:GLU:CB	2.32	0.77
52:BT:88:TYR:CA	52:BT:91:ARG:HH21	1.97	0.77
55:BW:26:ASN:ND2	55:BW:26:ASN:N	2.30	0.77
10:AK:76:THR:HG22	10:AK:142:LYS:CE	2.14	0.77
36:B1:19:G:O2'	36:B1:20:A:H5'	1.85	0.77
24:A0:67:LEU:CD2	24:A0:72:ASP:H	1.97	0.77
25:A1:49:ASP:C	25:A1:53:LYS:HE3	2.05	0.77
2:AA:1967:C:N4	2:AA:1968:G:N2	2.33	0.77
2:AA:2579:C:N4	2:AA:2580:U:C5	2.53	0.77
2:AA:607:U:O4	2:AA:621:A:C6	2.37	0.77
2:AA:608:A:O2'	2:AA:609:A:H5'	1.84	0.77
2:AA:668:G:C4	2:AA:670:A:N7	2.52	0.77
2:AA:740:U:O2'	2:AA:741:G:O5'	2.02	0.77
1:AB:80:U:H4'	2:AA:918:A:H8	1.50	0.77
3:AC:210:ARG:NH1	3:AC:210:ARG:HG2	1.98	0.77
3:AC:74:VAL:HG11	3:AC:153:ILE:HG23	1.66	0.77
6:AF:193:LEU:HD11	6:AF:231:ARG:CB	2.15	0.77
6:AF:51:TYR:O	6:AF:55:ARG:CB	2.33	0.77
9:AJ:102:ILE:HD13	9:AJ:118:LEU:CD2	2.15	0.77
10:AK:5:PHE:CB	10:AK:17:GLU:O	2.32	0.77
1:AB:28:C:OP1	16:AQ:44:ARG:NH2	2.17	0.77
19:AT:22:ASN:O	19:AT:23:LYS:O	2.02	0.77
20:AU:43:ASN:O	20:AU:45:GLY:N	2.17	0.77
20:AU:52:ARG:HD2	20:AU:95:ASN:OD1	1.85	0.77
34:BA:1243:C:H42	34:BA:1294:G:H1	1.29	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:33:U:C5	35:BB:35:A:OP2	2.36	0.77
35:BB:74:C:H2'	35:BB:75:C:C5'	2.15	0.77
37:BE:18:GLY:HA2	37:BE:42:ILE:H	1.50	0.77
37:BE:82:ARG:HB3	37:BE:83:MET:HE2	1.66	0.77
38:BF:12:LEU:HD22	38:BF:17:ASP:CA	2.14	0.77
40:BH:12:LEU:CD1	40:BH:31:LEU:HB3	2.15	0.77
41:BI:11:ASN:HD21	41:BI:13:ASN:HB2	1.49	0.77
42:BJ:72:ARG:NH1	42:BJ:138:LYS:HZ1	1.77	0.77
42:BJ:146:GLU:HG2	42:BJ:149:ARG:HH21	1.48	0.77
43:BK:40:ALA:HB2	43:BK:45:ILE:HG12	1.66	0.77
44:BL:107:ARG:O	44:BL:108:VAL:HG13	1.85	0.77
45:BM:82:ILE:O	45:BM:86:MET:CB	2.32	0.77
46:BN:54:ARG:O	46:BN:57:THR:HG22	1.85	0.77
50:BR:29:VAL:HG11	50:BR:81:LEU:HD21	1.65	0.77
35:BB:30:G:H1	35:BB:40:C:H42	1.33	0.77
11:AL:52:MET:HA	11:AL:81:LYS:HE3	1.67	0.77
26:A2:51:ALA:HA	26:A2:54:TYR:HD1	1.48	0.77
2:AA:1261:C:H3'	2:AA:1261:C:OP2	1.85	0.77
2:AA:1430:C:H2'	2:AA:1431:U:C6	2.19	0.77
2:AA:1494:A:H2'	2:AA:1494:A:N3	1.97	0.77
2:AA:131:G:N1	2:AA:149:A:N6	2.33	0.77
2:AA:2471:C:H2'	2:AA:2472:G:O5'	1.85	0.77
2:AA:2575:C:H5''	2:AA:2576:G:OP2	1.85	0.77
2:AA:294:A:H2'	2:AA:295:G:C5'	2.15	0.77
2:AA:365:C:C4	2:AA:366:C:H5	2.02	0.77
2:AA:465:G:H21	2:AA:683:C:H2'	1.48	0.77
2:AA:784:A:C6	2:AA:792:G:H1'	2.20	0.77
2:AA:826:U:O2	2:AA:832:G:N2	2.18	0.77
2:AA:971:C:H42	2:AA:972:G:H21	1.31	0.77
4:AD:108:ASN:O	4:AD:110:LYS:N	2.17	0.77
4:AD:183:ILE:CG2	4:AD:184:LEU:H	1.98	0.77
5:AE:76:PRO:HB2	5:AE:77:PRO:CD	2.09	0.77
6:AF:211:ASP:O	6:AF:212:VAL:HG23	1.85	0.77
6:AF:91:PRO:CB	6:AF:92:PRO:HD2	2.12	0.77
7:AG:49:PRO:CB	7:AG:72:LYS:O	2.32	0.77
8:AH:97:LYS:HB2	8:AH:124:VAL:CG1	2.14	0.77
15:AP:36:ASN:HD22	15:AP:41:THR:H	1.33	0.77
15:AP:66:ASN:C	15:AP:70:ARG:NE	2.38	0.77
17:AR:50:GLU:HG3	17:AR:55:ALA:CB	2.15	0.77
34:BA:1064:G:H1'	34:BA:1066:C:C4	2.20	0.77
34:BA:1394:A:H4'	34:BA:1395:C:OP1	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:679:C:O5'	34:BA:679:C:H6	1.68	0.77
34:BA:745:C:H5''	34:BA:851:G:H1'	1.65	0.77
40:BH:59:GLY:CA	40:BH:63:ARG:HH21	1.98	0.77
40:BH:71:LEU:HD21	40:BH:115:VAL:HG13	1.66	0.77
41:BI:4:TYR:HD2	41:BI:4:TYR:N	1.82	0.77
46:BN:53:SER:OG	46:BN:54:ARG:N	2.18	0.77
47:BO:48:PRO:O	47:BO:49:ASN:O	2.02	0.77
47:BO:39:VAL:CB	47:BO:57:LYS:HD2	2.15	0.77
10:AK:115:ILE:HG12	10:AK:131:VAL:CG1	2.15	0.77
24:A0:87:TYR:OH	24:A0:116:LEU:HB2	1.85	0.77
26:A2:3:ALA:O	26:A2:12:TYR:CE2	2.37	0.77
29:A5:15:LYS:O	29:A5:18:MET:N	2.18	0.77
33:A9:14:CYS:SG	33:A9:32:HIS:CD2	2.77	0.77
2:AA:2466:C:OP1	33:A9:6:SER:HB3	1.85	0.77
2:AA:1024:G:C5	2:AA:1025:G:N7	2.52	0.77
2:AA:1162:G:H2'	2:AA:1163:G:H8	1.49	0.77
2:AA:1163:G:C2	2:AA:1164:G:C8	2.72	0.77
2:AA:116:C:H2'	2:AA:117:G:C8	2.19	0.77
2:AA:1216:G:N2	2:AA:1234:U:H1'	1.99	0.77
2:AA:142(A):A:H4'	12:AM:21:ARG:HH22	1.44	0.77
2:AA:1602:U:H3'	2:AA:1602:U:H6	1.50	0.77
2:AA:2093:G:C5	2:AA:2225:A:N7	2.53	0.77
2:AA:2320:A:H62	16:AQ:9:PRO:HG3	1.50	0.77
2:AA:2892:A:H2'	2:AA:2893:G:C8	2.20	0.77
2:AA:290:G:O6	2:AA:350:U:C4	2.38	0.77
2:AA:531:C:O2	2:AA:531:C:H2'	1.83	0.77
2:AA:607:U:H3	2:AA:621:A:N6	1.69	0.77
2:AA:729:G:H1'	2:AA:763:G:O3'	1.83	0.77
2:AA:864:G:H2'	2:AA:865:C:C1'	2.14	0.77
1:AB:87:G:H8	1:AB:87:G:OP2	1.68	0.77
3:AC:59:ARG:HB2	3:AC:164:ARG:HB2	1.67	0.77
4:AD:143:ILE:O	4:AD:152:GLN:CB	2.32	0.77
7:AG:27:ILE:C	7:AG:69:ILE:HG23	2.05	0.77
8:AH:51:VAL:HG22	8:AH:68:ARG:HG2	1.66	0.77
16:AQ:74:PRO:HG3	16:AQ:114:LYS:HE2	1.67	0.77
34:BA:113:G:H2'	34:BA:114:U:H6	1.50	0.77
34:BA:1279:A:O2'	34:BA:1282:C:N4	2.18	0.77
34:BA:1405:G:H1'	34:BA:1519:A:H5'	1.65	0.77
34:BA:50:A:O2'	34:BA:52:G:C8	2.37	0.77
34:BA:735:C:C1'	53:BU:75:ILE:HD11	2.15	0.77
37:BE:155:LEU:CB	37:BE:159:PRO:HG3	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:15:VAL:HG22	37:BE:209:ARG:HH11	1.48	0.77
37:BE:170:GLU:OE2	37:BE:172:ILE:HG13	1.84	0.77
37:BE:164:VAL:O	37:BE:186:ALA:HB1	1.85	0.77
37:BE:75:LYS:HD3	37:BE:78:GLN:HB3	1.67	0.77
38:BF:8:ILE:CG1	38:BF:16:ARG:HG2	2.14	0.77
43:BK:114:THR:HG21	43:BK:129:VAL:HG13	1.67	0.77
43:BK:35:ILE:CD1	43:BK:134:ILE:HD13	2.13	0.77
34:BA:590:C:C5'	43:BK:30:ARG:HD2	2.11	0.77
45:BM:23:ILE:HA	45:BM:85:LEU:CD2	2.15	0.77
34:BA:706:A:H4'	46:BN:29:ILE:HD11	1.66	0.77
46:BN:31:THR:CG2	46:BN:42:TRP:HB3	2.15	0.77
49:BQ:6:LEU:C	49:BQ:8:GLU:H	1.87	0.77
53:BU:53:ARG:CD	53:BU:58:LEU:O	2.32	0.77
10:AK:124:LEU:HD11	10:AK:145:VAL:HG12	1.67	0.77
35:BB:1:G:C6	35:BB:73:A:C2	2.73	0.77
24:A0:20:LEU:HD12	24:A0:21:TYR:HD2	1.48	0.77
26:A2:54:TYR:O	26:A2:56:VAL:HB	1.85	0.77
32:A8:12:ARG:CD	32:A8:13:ARG:HD2	2.15	0.77
2:AA:1181:C:C2'	2:AA:1182:A:H8	1.97	0.77
2:AA:1972:A:H2'	2:AA:1973:G:C8	2.18	0.77
2:AA:529:A:N6	2:AA:2042:A:C2	2.53	0.77
2:AA:2468:G:O2'	2:AA:2469:A:C8	2.38	0.77
2:AA:2575:C:OP1	5:AE:241:TRP:NE1	2.18	0.77
2:AA:358:U:H3'	2:AA:359:A:H5'	1.67	0.77
2:AA:535:C:C5'	25:A1:53:LYS:HE2	2.15	0.77
2:AA:969:U:O2'	2:AA:970:C:H5'	1.85	0.77
4:AD:144:GLU:O	4:AD:183:ILE:HD13	1.85	0.77
4:AD:76:ARG:HG2	4:AD:113:MET:C	2.04	0.77
2:AA:5:A:H5'	5:AE:94:ARG:NH2	2.00	0.77
9:AJ:35:ALA:CB	9:AJ:36:PRO:HD3	2.14	0.77
11:AL:41:ARG:O	11:AL:44:ALA:HB3	1.85	0.77
12:AM:42:GLU:O	12:AM:132:LEU:C	2.23	0.77
15:AP:33:MET:HE1	21:AV:174:PRO:O	1.84	0.77
15:AP:82:LYS:NZ	15:AP:84:ARG:CZ	2.48	0.77
21:AV:5:ALA:HB3	21:AV:13:LYS:NZ	2.00	0.77
21:AV:53:ASP:CG	21:AV:62:PHE:O	2.23	0.77
34:BA:1139:G:N2	34:BA:1143:G:H1	1.83	0.77
34:BA:1349:A:OP1	44:BL:120:ARG:HB2	1.83	0.77
34:BA:1373:G:H5''	42:BJ:36:LYS:HD2	1.66	0.77
34:BA:335:C:H4'	34:BA:1434:A:H4'	1.67	0.77
34:BA:176:C:O2'	34:BA:177:C:H5'	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:245:C:N3	34:BA:284:G:C6	2.53	0.77
34:BA:540:G:C2	34:BA:541:G:H1'	2.20	0.77
34:BA:601:C:H2'	34:BA:602:A:H8	1.50	0.77
34:BA:965:A:HO2'	34:BA:966:G:C5'	1.95	0.77
35:BB:15:G:O5'	35:BB:15:G:H8	1.67	0.77
38:BF:84:ILE:HG13	38:BF:101:LEU:HD13	1.67	0.77
42:BJ:135:VAL:O	42:BJ:138:LYS:HB3	1.84	0.77
34:BA:1373:G:H4'	42:BJ:36:LYS:HZ3	1.47	0.77
43:BK:126:LYS:NZ	43:BK:127:LEU:HB2	1.99	0.77
43:BK:123:GLU:O	43:BK:127:LEU:HB2	1.85	0.77
43:BK:6:ILE:CD1	43:BK:85:ARG:NH1	2.48	0.77
34:BA:708:C:C4'	46:BN:37:GLY:HA3	2.13	0.77
34:BA:523:A:H61	47:BO:53:ARG:HH21	1.31	0.77
49:BQ:14:PRO:O	49:BQ:16:PHE:N	2.18	0.77
50:BR:78:TYR:O	50:BR:82:ILE:HG13	1.84	0.77
2:AA:2751:G:N3	2:AA:2751:G:H2'	1.99	0.77
2:AA:1119:C:O2	2:AA:1119:C:H2'	1.85	0.77
24:A0:38:VAL:CB	24:A0:39:PRO:HD3	2.15	0.76
27:A3:65:GLY:HA2	27:A3:66:LYS:HZ2	1.48	0.76
2:AA:1137:G:O2'	12:AM:82:THR:O	2.03	0.76
2:AA:1163:G:H5'	26:A2:23:GLU:OE2	1.85	0.76
2:AA:1471:A:H62	2:AA:1519:G:H22	1.31	0.76
2:AA:1819:A:C1'	2:AA:1821:A:C5	2.67	0.76
2:AA:1854:A:H2'	2:AA:1855:G:H5'	1.65	0.76
2:AA:1959:G:H1'	34:BA:1418:A:N3	2.00	0.76
2:AA:2176:A:H2'	2:AA:2177:C:H6	1.50	0.76
2:AA:2602:A:O2'	2:AA:2603:G:OP2	2.03	0.76
2:AA:356:G:H2'	2:AA:357:A:N9	1.98	0.76
2:AA:452:G:N2	2:AA:457:A:C2	2.53	0.76
2:AA:573:G:H22	2:AA:2029:G:H21	1.32	0.76
2:AA:607:U:O4	2:AA:621:A:C2	2.38	0.76
2:AA:935:C:O2'	2:AA:936:C:O5'	2.02	0.76
2:AA:957:A:H2	2:AA:2459:A:H5'	1.51	0.76
3:AC:18:LYS:HE3	3:AC:20:TYR:HD2	1.50	0.76
2:AA:2679:A:H5''	5:AE:261:ARG:CZ	2.15	0.76
2:AA:2679:A:H5''	5:AE:261:ARG:NE	1.99	0.76
2:AA:616:A:OP2	6:AF:42:ARG:CZ	2.34	0.76
9:AJ:83:LEU:HD13	9:AJ:91:LEU:HD12	1.66	0.76
10:AK:4:ILE:HD11	10:AK:39:ALA:CA	2.14	0.76
13:AN:112:MET:CA	13:AN:115:ILE:HD12	2.16	0.76
13:AN:2:ILE:HB	13:AN:33:ALA:HB3	1.65	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AO:122:ALA:HB3	14:AO:125:PHE:HZ	1.47	0.76
17:AR:13:ILE:HG13	17:AR:33:SER:CB	2.15	0.76
21:AV:49:THR:CG2	21:AV:97:PRO:HD3	2.14	0.76
34:BA:1124:G:H2'	34:BA:1126:U:O4	1.85	0.76
34:BA:1307:U:H5'	48:BP:109:THR:HG21	1.67	0.76
34:BA:417:C:H42	34:BA:426:G:H1	0.78	0.76
35:BB:62:A:O2'	35:BB:63:C:C5'	2.32	0.76
35:BC:18:G:C2	35:BC:58:A:C4	2.73	0.76
37:BE:20:GLU:O	37:BE:39:ILE:HG23	1.85	0.76
38:BF:182:ILE:HA	38:BF:204:LEU:HG	1.67	0.76
38:BF:38:ARG:CB	38:BF:94:LEU:HD21	2.15	0.76
41:BI:4:TYR:CD2	41:BI:4:TYR:N	2.53	0.76
34:BA:876:G:H1'	43:BK:11:THR:HG21	1.67	0.76
43:BK:87:SER:CB	43:BK:92:ARG:HA	2.13	0.76
43:BK:96:GLY:O	43:BK:99:GLU:HG3	1.84	0.76
46:BN:54:ARG:O	46:BN:56:GLY:N	2.18	0.76
47:BO:59:ARG:C	47:BO:60:LEU:HD13	2.04	0.76
47:BO:60:LEU:HD22	47:BO:60:LEU:N	1.98	0.76
51:BS:32:TYR:HD1	51:BS:32:TYR:H	1.32	0.76
52:BT:75:ARG:HH12	52:BT:77:VAL:HA	1.48	0.76
35:BB:41:U:H6	35:BB:41:U:C4'	1.98	0.76
2:AA:1511:A:C3'	2:AA:1512:G:H5''	2.15	0.76
2:AA:2246:G:C2	2:AA:2247:A:C5	2.73	0.76
37:BE:124:SER:HB2	37:BE:125:PRO:HD2	1.66	0.76
24:A0:50:HIS:CE1	24:A0:54:LEU:HD11	2.20	0.76
25:A1:8:ILE:CA	25:A1:11:ARG:HD2	2.14	0.76
25:A1:88:ILE:O	25:A1:89:ASP:OD1	2.02	0.76
26:A2:14:VAL:HG12	26:A2:15:SER:N	2.00	0.76
27:A3:36:ILE:N	27:A3:68:VAL:HG22	2.00	0.76
31:A7:21:ARG:HH22	31:A7:42:LEU:HB3	1.50	0.76
2:AA:1084:A:P	9:AI:35:ALA:O	2.42	0.76
2:AA:1141:U:H2'	2:AA:1142:U:OP2	1.85	0.76
2:AA:974(A):C:OP2	2:AA:1186:G:N2	2.18	0.76
2:AA:126:A:H4'	31:A7:19:ARG:HH21	1.50	0.76
2:AA:1419:A:H4'	2:AA:1419:A:OP2	1.85	0.76
2:AA:1467:C:N4	2:AA:1524:G:O6	2.17	0.76
2:AA:1800:C:C3'	2:AA:1800:C:C6	2.63	0.76
2:AA:1855:G:H8	2:AA:1855:G:O5'	1.68	0.76
2:AA:1882:C:C2'	2:AA:1883:G:H5'	2.15	0.76
2:AA:1908:C:H42	2:AA:1922:G:H1	1.32	0.76
2:AA:2097:C:O2'	2:AA:2098:U:H5'	1.83	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2101:G:O2'	2:AA:2102:U:H5'	1.85	0.76
2:AA:2132:U:H4'	3:AC:5:LYS:CG	2.15	0.76
2:AA:230:U:H2'	2:AA:231:C:C6	2.20	0.76
2:AA:2068:U:O2	2:AA:2430:A:N1	2.18	0.76
2:AA:252:G:N2	2:AA:253:C:C2	2.54	0.76
2:AA:2599:G:C2'	2:AA:2600:A:O4'	2.33	0.76
2:AA:2864:G:H2'	2:AA:2865:U:H6	1.49	0.76
2:AA:357:A:H3'	2:AA:358:U:H5''	1.66	0.76
2:AA:585:G:O2'	2:AA:586:A:C8	2.37	0.76
2:AA:855:G:N2	2:AA:856:C:H1'	1.99	0.76
2:AA:861:A:C5	2:AA:862:G:C8	2.73	0.76
2:AA:866:A:H2'	2:AA:867:C:O5'	1.84	0.76
1:AB:116:G:H2'	1:AB:117:G:O4'	1.85	0.76
1:AB:71:C:O2'	1:AB:72:G:H5'	1.85	0.76
1:AB:90:C:O2'	1:AB:91:C:H5'	1.85	0.76
3:AC:99:ILE:O	3:AC:103:ILE:HG13	1.84	0.76
3:AC:58:VAL:CG2	3:AC:201:PRO:HD3	2.15	0.76
4:AD:77:VAL:C	4:AD:113:MET:HG3	2.06	0.76
9:AI:63:LEU:HG	9:AI:102:ILE:HB	1.67	0.76
9:AI:23:LYS:HD2	9:AJ:47:ALA:N	1.99	0.76
9:AI:91:LEU:HD23	9:AI:94:LYS:HD2	1.65	0.76
9:AJ:10:ILE:O	9:AJ:18:LEU:HD21	1.85	0.76
13:AN:66:LYS:HB3	13:AN:79:PHE:O	1.85	0.76
13:AN:1:MET:HB3	13:AN:67:ARG:CD	2.15	0.76
13:AN:68:GLY:HA3	13:AN:78:ARG:HE	0.62	0.76
2:AA:873:G:H4'	15:AP:32:LYS:CB	2.15	0.76
15:AP:75:SER:O	15:AP:132:VAL:HG21	1.85	0.76
16:AQ:120:GLU:HA	16:AQ:123:ILE:HD12	1.66	0.76
18:AS:36:LEU:HB3	18:AS:48:ALA:HB2	1.66	0.76
20:AU:27:LEU:HD22	20:AU:31:LEU:CD1	2.15	0.76
34:BA:1209:C:C2'	34:BA:1210:C:H5'	2.14	0.76
34:BA:272:C:O2'	34:BA:273:A:H5'	1.85	0.76
34:BA:275:G:O2'	34:BA:276:G:H5'	1.85	0.76
34:BA:389:A:H2'	34:BA:390:C:C5'	2.14	0.76
34:BA:445:G:H1	34:BA:489:C:N4	1.83	0.76
34:BA:751:U:O2'	34:BA:752:G:H5'	1.85	0.76
34:BA:940:C:H2'	34:BA:941:G:H8	1.49	0.76
41:BI:14:LEU:HD13	41:BI:18:GLN:HG2	1.67	0.76
42:BJ:88:PRO:CG	42:BJ:152:ALA:HA	2.16	0.76
43:BK:46:LYS:HG3	43:BK:64:LYS:HG3	1.67	0.76
44:BL:27:THR:HB	44:BL:62:TYR:HD1	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:48:LEU:CD1	48:BP:53:VAL:HG22	2.14	0.76
51:BS:20:VAL:HG11	51:BS:32:TYR:HD2	1.50	0.76
35:BB:14:A:C2	35:BB:22:G:N3	2.54	0.76
37:BE:130:ARG:CD	37:BE:131:PRO:HD2	2.15	0.76
36:B1:14:U:H5''	36:B1:38:C:H42	1.50	0.76
36:B1:25:U:H3	36:B1:28:U:H5	1.33	0.76
25:A1:43:ALA:HA	25:A1:46:GLU:OE2	1.85	0.76
25:A1:59:ARG:HH11	25:A1:59:ARG:HB3	1.48	0.76
27:A3:27:GLY:HA2	27:A3:60:PHE:CE2	2.20	0.76
32:A8:12:ARG:HH11	32:A8:13:ARG:HH11	1.32	0.76
32:A8:33:ASN:O	32:A8:34:THR:OG1	2.03	0.76
2:AA:135:G:H1'	2:AA:145:G:H22	1.51	0.76
2:AA:1645:G:H5''	2:AA:1646:C:H5'	1.66	0.76
2:AA:1799:G:C2	2:AA:1819:A:N7	2.53	0.76
2:AA:1915:U:H2'	2:AA:1916:A:N7	2.00	0.76
2:AA:207:A:C2	2:AA:208:C:C1'	2.68	0.76
2:AA:2132:U:N3	2:AA:2134:A:OP2	2.18	0.76
2:AA:2136:C:C5	2:AA:2154:G:N1	2.51	0.76
2:AA:2320:A:H5'	2:AA:2321:G:N7	1.99	0.76
2:AA:2470:G:O6	2:AA:2481:G:C2	2.38	0.76
2:AA:2504:U:C2'	2:AA:2505:G:H5'	2.15	0.76
2:AA:2649:U:O2'	2:AA:2650:U:C5'	2.34	0.76
2:AA:750:A:C2'	2:AA:751:A:H5''	2.15	0.76
2:AA:774:A:O2'	2:AA:775:G:H8	1.68	0.76
2:AA:679:C:H42	2:AA:798:G:H1	1.31	0.76
2:AA:894:C:H2'	2:AA:895:U:C6	2.19	0.76
2:AA:975:G:N1	2:AA:976:C:H6	1.83	0.76
4:AD:79:THR:CG2	4:AD:111:VAL:HG13	2.15	0.76
4:AD:131:LEU:HD11	4:AD:187:CYS:CB	2.13	0.76
4:AD:144:GLU:HG2	4:AD:152:GLN:HE22	1.50	0.76
6:AF:158:GLU:N	6:AF:158:GLU:OE2	2.18	0.76
8:AH:98:GLN:OE1	8:AH:103:VAL:HG21	1.85	0.76
9:AI:22:VAL:HG12	9:AI:26:GLU:OE1	1.86	0.76
2:AA:1083:U:O2	9:AI:37:VAL:HG22	1.85	0.76
12:AM:54:VAL:HA	12:AM:135:ILE:CG2	2.14	0.76
13:AN:45:ASP:HA	13:AN:54:LYS:HG3	1.66	0.76
2:AA:2278:A:O2'	15:AP:19:TYR:CD2	2.38	0.76
15:AP:33:MET:CE	15:AP:34:GLY:H	1.96	0.76
16:AQ:122:ALA:CB	16:AQ:127:LEU:HD13	2.15	0.76
21:AV:37:LYS:O	21:AV:41:ARG:CZ	2.34	0.76
34:BA:940:C:H2'	34:BA:941:G:C8	2.20	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BC:74:C:H3'	35:BC:75:C:H5''	1.67	0.76
41:BI:79:LEU:O	41:BI:85:VAL:HG21	1.84	0.76
41:BI:79:LEU:O	41:BI:81:ILE:N	2.19	0.76
41:BI:96:PRO:HA	53:BU:32:ARG:CD	2.15	0.76
43:BK:38:ILE:HA	43:BK:41:ARG:HB3	1.66	0.76
54:BV:44:MET:O	54:BV:62:ILE:HG21	1.84	0.76
35:BB:37:G:C4	35:BB:38:A:N7	2.53	0.76
27:A3:25:LYS:C	27:A3:26:PHE:CD1	2.59	0.76
29:A5:11:THR:H	29:A5:16:ARG:HH21	1.32	0.76
2:AA:1029:A:O2'	2:AA:1030:G:H5'	1.85	0.76
2:AA:1252:G:O2'	25:A1:33:ARG:NE	2.19	0.76
2:AA:1743:G:C2'	2:AA:1746:G:H5'	2.15	0.76
2:AA:1778:U:N1	2:AA:1784:A:H2	1.83	0.76
2:AA:47:C:N3	2:AA:179:G:C6	2.54	0.76
2:AA:1802:A:H2'	2:AA:1802:A:N3	1.99	0.76
2:AA:1917:U:H6	2:AA:1917:U:C3'	1.98	0.76
2:AA:199:A:C6	2:AA:2434:A:C2	2.74	0.76
2:AA:2056:G:N2	2:AA:2057:A:H1'	1.97	0.76
2:AA:2445:G:H2'	2:AA:2446:G:H8	1.48	0.76
2:AA:2595:G:H1'	2:AA:2599:G:H22	1.49	0.76
2:AA:2688:U:C2'	2:AA:2688:U:O2	2.33	0.76
2:AA:2807:G:H3'	2:AA:2891:G:O6	1.86	0.76
2:AA:383:U:O2'	2:AA:384:U:H5	1.64	0.76
2:AA:680:G:H2'	2:AA:681:G:H8	1.49	0.76
2:AA:842:G:H2'	2:AA:843:G:C8	2.20	0.76
2:AA:900:A:H2'	2:AA:901:A:O4'	1.86	0.76
2:AA:978:G:O6	2:AA:984:A:OP2	2.03	0.76
3:AC:10:LEU:HD11	3:AC:32:LEU:CA	2.15	0.76
5:AE:201:VAL:HG22	5:AE:311:PHE:CB	2.12	0.76
9:AJ:74:ILE:HD12	11:AL:61:TYR:HD2	1.48	0.76
13:AN:90:ASP:O	13:AN:92:SER:N	2.17	0.76
2:AA:751:A:OP2	18:AS:90:ARG:HB3	1.84	0.76
19:AT:49:VAL:HG12	19:AT:49:VAL:O	1.84	0.76
22:AW:43:PRO:HB3	22:AW:45:ARG:HB3	1.66	0.76
34:BA:1269:A:H5'	34:BA:1326:C:C4'	2.14	0.76
34:BA:275:G:H5'	52:BT:14:LYS:CD	2.13	0.76
34:BA:728:A:H8	50:BR:54:ARG:NH1	1.83	0.76
34:BA:824:C:H2'	34:BA:825:G:C8	2.20	0.76
34:BA:948:C:P	48:BP:109:THR:H	2.09	0.76
34:BA:953:G:O2'	34:BA:954:G:H5'	1.85	0.76
37:BE:235:SER:O	37:BE:238:LEU:HD23	1.86	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:48:MET:HA	37:BE:51:LEU:HD12	1.67	0.76
39:BG:193:ASP:O	39:BG:194:LEU:HD13	1.85	0.76
40:BH:57:LYS:HG2	40:BH:61:TYR:HE2	1.49	0.76
42:BJ:42:ILE:HG22	42:BJ:120:ILE:CD1	2.15	0.76
42:BJ:65:ALA:HA	42:BJ:68:ASN:ND2	2.00	0.76
43:BK:69:ARG:CZ	43:BK:74:PRO:O	2.34	0.76
44:BL:117:HIS:O	44:BL:119:ALA:N	2.15	0.76
44:BL:24:GLY:O	44:BL:25:LYS:HG3	1.84	0.76
46:BN:99:GLN:CG	46:BN:105:VAL:HG11	2.15	0.76
55:BW:12:ALA:H	55:BW:13:LEU:HD12	1.50	0.76
25:A1:63:GLN:O	25:A1:64:ARG:C	2.22	0.76
30:A6:21:TYR:C	30:A6:22:TYR:CG	2.59	0.76
31:A7:30:ILE:HD13	31:A7:33:ARG:CZ	2.16	0.76
2:AA:593:G:H1'	32:A8:3:LYS:NZ	2.00	0.76
32:A8:30:ARG:HB3	32:A8:44:LYS:HZ1	1.50	0.76
2:AA:1034:G:H5'	33:A9:18:ARG:NE	1.99	0.76
2:AA:1011:G:H5'	2:AA:1012:U:OP2	1.86	0.76
2:AA:1076:C:O2	11:AL:92:PRO:HD2	1.85	0.76
2:AA:1340:U:H5	19:AT:55:GLN:NE2	1.82	0.76
2:AA:152:G:H3'	2:AA:152:G:C8	2.19	0.76
2:AA:1303:G:N2	2:AA:1626:G:O2'	2.19	0.76
2:AA:1681:G:N7	2:AA:1762:A:N6	2.32	0.76
2:AA:1806:C:H2'	2:AA:1807:G:H5'	1.66	0.76
2:AA:1930:G:C2'	2:AA:1931:U:OP2	2.33	0.76
2:AA:2067:G:H5''	2:AA:2068:U:OP2	1.85	0.76
2:AA:2146:C:H2'	2:AA:2147:G:C2	2.20	0.76
2:AA:2330:G:H1	2:AA:2385:C:N4	1.84	0.76
2:AA:2743:C:C2	2:AA:2762:G:C2	2.73	0.76
2:AA:2809:A:H4'	2:AA:2811:G:N7	2.00	0.76
2:AA:2821:A:OP2	2:AA:2822:G:OP2	2.02	0.76
2:AA:324:A:C2	2:AA:325:G:N9	2.53	0.76
2:AA:289:A:O3'	2:AA:351:G:O6	2.03	0.76
2:AA:279:C:H2'	2:AA:360:G:O6	1.85	0.76
2:AA:614:U:H3'	2:AA:615:G:C4'	2.11	0.76
2:AA:673:C:H5''	6:AF:80:VAL:CG1	2.15	0.76
2:AA:782:A:H5''	2:AA:783:A:OP1	1.85	0.76
1:AB:28:C:P	16:AQ:42:HIS:NE2	2.58	0.76
4:AD:131:LEU:CD1	4:AD:171:VAL:HG21	2.16	0.76
4:AD:142:ASN:H	4:AD:143:ILE:HD12	1.48	0.76
5:AE:105:HIS:ND1	5:AE:108:LEU:HD11	1.99	0.76
2:AA:2617:C:H1'	5:AE:245:ARG:NH2	2.00	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:81:GLU:HG2	13:AN:82:ASN:H	0.67	0.76
14:AO:70:ASP:O	14:AO:74:THR:HG23	1.85	0.76
16:AQ:89:GLY:HA2	16:AQ:127:LEU:HD12	1.66	0.76
20:AU:72:ILE:O	20:AU:91:LEU:HB2	1.85	0.76
20:AU:28:SER:HB3	20:AU:99:THR:HG23	1.68	0.76
23:AX:48:GLU:O	23:AX:51:ALA:HB2	1.85	0.76
34:BA:1006:C:N4	34:BA:1024:G:H21	1.82	0.76
34:BA:1129:C:O2'	34:BA:1131:G:H3'	1.86	0.76
34:BA:1137:C:H4'	34:BA:1138:G:C2	2.21	0.76
34:BA:1155:G:H2'	34:BA:1156:G:C8	2.20	0.76
34:BA:1202:G:H1'	49:BQ:29:ARG:HD3	1.67	0.76
34:BA:362:G:O5'	47:BO:34:ARG:NH2	2.17	0.76
34:BA:653:A:O5'	43:BK:56:LYS:NZ	2.16	0.76
34:BA:813:U:H5''	34:BA:814:A:OP2	1.85	0.76
35:BB:74:C:N3	35:BB:75:C:H1'	2.00	0.76
37:BE:21:ARG:N	37:BE:21:ARG:HD2	2.00	0.76
41:BI:41:GLU:O	41:BI:42:GLU:HB2	1.83	0.76
42:BJ:150:ALA:HB2	46:BN:59:TYR:CD2	2.21	0.76
43:BK:111:ILE:HG22	43:BK:134:ILE:HD12	1.68	0.76
46:BN:104:GLN:O	46:BN:106:LYS:N	2.18	0.76
47:BO:28:LYS:HD2	47:BO:33:ARG:HH22	1.51	0.76
48:BP:11:ARG:NH1	48:BP:11:ARG:HG3	1.95	0.76
50:BR:39:LEU:CD1	50:BR:56:LEU:HB2	2.16	0.76
50:BR:62:GLN:HA	50:BR:65:ARG:HH22	1.50	0.76
37:BE:136:VAL:CA	37:BE:139:LYS:HZ2	1.97	0.76
27:A3:68:VAL:CG1	27:A3:71:ASN:HB2	2.15	0.76
28:A4:28:ARG:HB3	28:A4:29:PRO:CD	2.14	0.76
2:AA:2285:C:OP2	30:A6:28:ARG:HD3	1.86	0.76
2:AA:770:G:C5'	31:A7:10:ARG:HH11	1.98	0.76
2:AA:1128:A:H2	2:AA:1129:A:C6	2.04	0.76
2:AA:1937:A:N6	2:AA:1939:U:C5	2.53	0.76
2:AA:1961:C:C2'	2:AA:1962:C:H5'	2.16	0.76
2:AA:2132:U:C4'	3:AC:5:LYS:HG2	2.15	0.76
2:AA:2311:A:OP2	7:AG:55:LYS:HE3	1.85	0.76
2:AA:2330:G:N2	2:AA:2331:G:N3	2.33	0.76
2:AA:2526:G:O2'	2:AA:2527:C:H5'	1.85	0.76
2:AA:2528:U:H2'	2:AA:2530:A:O5'	1.86	0.76
2:AA:2589:A:N1	2:AA:2606:C:N4	2.34	0.76
2:AA:2592:G:H2'	2:AA:2593:U:O5'	1.84	0.76
2:AA:2830:G:N3	2:AA:2883:A:H2	1.84	0.76
2:AA:293:U:O2'	2:AA:294:A:O4'	2.04	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:499:U:C2'	2:AA:500:G:H5'	2.15	0.76
2:AA:526:A:H5''	2:AA:527:C:OP2	1.86	0.76
2:AA:558:G:C2	2:AA:559:G:N7	2.54	0.76
2:AA:697:C:N3	2:AA:765:G:O6	2.19	0.76
2:AA:78:A:H2'	2:AA:79:G:H8	1.51	0.76
4:AD:66:PHE:CZ	4:AD:150:GLY:HA3	2.20	0.76
4:AD:216:ALA:C	4:AD:223:ASN:N	2.33	0.76
6:AF:196:THR:HA	6:AF:236:THR:CG2	2.15	0.76
9:AJ:62:VAL:HG13	9:AJ:100:ALA:C	2.06	0.76
9:AJ:63:LEU:HG	9:AJ:102:ILE:HB	1.67	0.76
2:AA:1078:U:OP1	11:AL:93:LYS:HG3	1.84	0.76
12:AM:45:VAL:N	12:AM:132:LEU:HB2	2.01	0.76
17:AR:53:ASP:CA	17:AR:56:ARG:HG3	2.16	0.76
20:AU:51:LEU:O	20:AU:52:ARG:HG3	1.85	0.76
20:AU:78:THR:CA	20:AU:89:ARG:HG3	2.14	0.76
21:AV:5:ALA:HB3	21:AV:13:LYS:HZ1	1.51	0.76
23:AX:50:VAL:CG1	23:AX:53:LEU:HD12	2.15	0.76
34:BA:954:G:H21	34:BA:1227:A:H62	1.33	0.76
34:BA:1292:U:H2'	34:BA:1293:G:C8	2.21	0.76
34:BA:1329:A:OP1	48:BP:28:ALA:HB3	1.85	0.76
34:BA:575:G:O2'	34:BA:576:G:O5'	2.04	0.76
34:BA:674:G:H2'	34:BA:675:A:H8	1.51	0.76
38:BF:52:LEU:HD23	38:BF:52:LEU:N	2.01	0.76
39:BG:63:LYS:HG2	39:BG:64:LEU:H	1.51	0.76
40:BH:59:GLY:O	40:BH:62:ALA:HB3	1.86	0.76
40:BH:71:LEU:HD21	40:BH:115:VAL:CG1	2.16	0.76
40:BH:79:GLU:HG3	40:BH:93:PRO:HD2	1.67	0.76
34:BA:1298:C:C4	42:BJ:114:ARG:HB3	2.20	0.76
47:BO:86:ARG:NH1	47:BO:99:HIS:ND1	2.34	0.76
48:BP:23:TYR:HD2	48:BP:70:LEU:HD13	1.51	0.76
55:BW:89:ARG:HA	55:BW:92:LEU:HD12	1.66	0.76
55:BW:49:ALA:HB1	55:BW:99:LEU:HG	1.66	0.76
35:BB:29:A:C2	35:BB:30:G:C8	2.73	0.76
10:AK:115:ILE:O	10:AK:132:LYS:HE3	1.85	0.76
10:AK:147:GLU:O	10:AK:149:LYS:N	2.19	0.76
10:AK:134:HIS:ND1	10:AK:135:PRO:HD2	2.01	0.76
24:A0:75:LEU:HD23	24:A0:78:LYS:HB3	1.67	0.76
24:A0:88:ARG:O	24:A0:89:ASP:HB3	1.86	0.76
2:AA:445:C:C3'	25:A1:3:ARG:HH21	1.98	0.76
26:A2:51:ALA:O	26:A2:55:THR:HG23	1.86	0.76
26:A2:60:VAL:O	26:A2:98:ILE:CB	2.31	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:A4:15:ILE:CG1	28:A4:36:TRP:CE3	2.69	0.76
31:A7:26:SER:O	31:A7:29:ASN:HB2	1.86	0.76
2:AA:1299:G:H5''	2:AA:1300:U:H5'	1.68	0.76
2:AA:1364:G:H8	2:AA:1364:G:H5'	1.51	0.76
2:AA:1450:C:H42	2:AA:1461:G:H1	0.76	0.76
2:AA:1530:G:C6	2:AA:1541:U:O2	2.39	0.76
2:AA:1603:A:C4	2:AA:1604:C:H5	2.04	0.76
2:AA:1657:C:O2'	2:AA:1658:C:H5'	1.86	0.76
2:AA:1800:C:H6	2:AA:1800:C:C3'	1.92	0.76
2:AA:2027:G:O2'	2:AA:2028:U:H5'	1.84	0.76
2:AA:2122:U:C5	3:AC:129:ARG:NH2	2.54	0.76
2:AA:2335:A:H2'	2:AA:2337:G:N7	2.01	0.76
2:AA:2507:C:N3	2:AA:2583:G:N3	2.33	0.76
2:AA:2657:A:N7	2:AA:2658:C:C6	2.54	0.76
2:AA:270(H):C:C2	2:AA:270(R):G:N2	2.54	0.76
2:AA:2810:A:C2'	2:AA:2811:G:H5'	2.14	0.76
2:AA:515:A:H3'	2:AA:516:C:C6	2.19	0.76
2:AA:703:U:H3'	2:AA:704:G:C8	2.20	0.76
2:AA:848:G:H3'	2:AA:848:G:C8	2.20	0.76
2:AA:849:A:C2'	2:AA:850:C:H5'	2.15	0.76
5:AE:39:GLN:HB2	5:AE:174:LEU:CG	2.15	0.76
5:AE:44:TYR:O	5:AE:73:ILE:HG23	1.86	0.76
6:AF:142:ASP:OD1	6:AF:237:GLU:HB2	1.85	0.76
7:AG:49:PRO:CB	7:AG:72:LYS:C	2.54	0.76
8:AH:116:PRO:CB	8:AH:120:LEU:HB2	2.15	0.76
8:AH:88:LEU:HD12	8:AH:95:ALA:HB3	1.68	0.76
9:AI:77:VAL:HG22	9:AI:102:ILE:CD1	2.16	0.76
9:AJ:102:ILE:HD13	9:AJ:118:LEU:HD22	1.67	0.76
12:AM:14:ALA:O	12:AM:40:ASN:ND2	2.19	0.76
16:AQ:41:LYS:HD2	16:AQ:42:HIS:CD2	2.21	0.76
20:AU:27:LEU:O	20:AU:32:ARG:HB2	1.85	0.76
20:AU:31:LEU:HD11	20:AU:99:THR:O	1.85	0.76
23:AX:18:ASP:O	23:AX:21:ALA:N	2.18	0.76
36:B1:48:A:H2'	36:B1:49:A:H8	1.49	0.76
34:BA:1118:C:H1'	34:BA:1179:A:C4	2.21	0.76
34:BA:1352:C:H2'	34:BA:1353:G:C8	2.21	0.76
34:BA:448:A:OP2	34:BA:485:G:N2	2.18	0.76
34:BA:48:C:O2'	34:BA:49:U:OP1	2.01	0.76
34:BA:736:C:H2'	34:BA:737:A:C8	2.21	0.76
34:BA:776:G:H22	34:BA:802:A:P	2.08	0.76
34:BA:817:C:O2'	34:BA:818:G:C5'	2.34	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:986:A:C4'	54:BV:55:LYS:HG3	2.16	0.76
35:BB:15:G:H22	35:BB:48:C:H42	1.33	0.76
39:BG:177:ASP:OD1	39:BG:179:GLU:HB2	1.84	0.76
39:BG:57:ARG:NH2	40:BH:107:ARG:HD3	1.98	0.76
41:BI:53:ALA:HB3	41:BI:55:ASP:OD2	1.86	0.76
41:BI:84:ASN:O	41:BI:86:ARG:N	2.19	0.76
43:BK:40:ALA:CA	43:BK:45:ILE:HG23	2.15	0.76
44:BL:47:LEU:HD22	44:BL:50:LEU:HB2	1.68	0.76
48:BP:84:ILE:HD11	48:BP:86:CYS:SG	2.26	0.76
51:BS:74:LEU:O	51:BS:77:ALA:HB3	1.86	0.76
53:BU:21:LYS:HA	53:BU:55:ARG:NH1	1.99	0.76
55:BW:65:LYS:O	55:BW:68:LYS:HG2	1.84	0.76
24:A0:82:GLU:HB3	24:A0:83:ILE:CD1	2.16	0.76
26:A2:37:ALA:O	26:A2:58:ALA:HB1	1.85	0.76
28:A4:18:GLY:HA2	28:A4:19:GLN:NE2	2.01	0.76
2:AA:1030:G:N2	2:AA:1124:C:N3	2.34	0.76
2:AA:980:A:N6	2:AA:1135:C:H4'	2.01	0.76
2:AA:1139:G:C2'	2:AA:1140:C:H5'	2.16	0.76
2:AA:1273:U:C2	2:AA:2003:G:H5'	2.21	0.76
2:AA:1779:U:H5	2:AA:1784:A:N1	1.84	0.76
2:AA:1786:A:C2	2:AA:1938:A:N6	2.53	0.76
2:AA:1770:G:O6	2:AA:1983:C:N4	2.18	0.76
2:AA:2118:U:H2'	2:AA:2119:A:H4'	1.68	0.76
2:AA:2686:G:O2'	2:AA:2687:U:H5'	1.86	0.76
2:AA:292:C:H3'	2:AA:293:U:O4	1.85	0.76
2:AA:822:U:H2'	2:AA:823:G:H8	1.48	0.76
2:AA:865:C:N4	2:AA:909:A:H62	1.83	0.76
2:AA:969:U:C2'	2:AA:970:C:O4'	2.34	0.76
3:AC:68:LEU:CB	3:AC:72:VAL:HG21	2.16	0.76
5:AE:216:ARG:HH11	5:AE:253:GLN:HB3	1.48	0.76
5:AE:315:VAL:CG1	5:AE:316:ARG:H	1.99	0.76
6:AF:197:SER:HB2	6:AF:238:SER:CB	2.14	0.76
8:AH:8:ILE:O	8:AH:49:ILE:HD12	1.85	0.76
9:AJ:52:ALA:HB1	9:AJ:58:GLU:HB2	1.66	0.76
11:AL:60:VAL:HA	11:AL:65:SER:O	1.85	0.76
12:AM:45:VAL:HA	12:AM:131:THR:O	1.84	0.76
12:AM:17:CYS:HB2	12:AM:22:VAL:HG21	1.68	0.76
13:AN:35:ILE:HA	13:AN:62:VAL:O	1.86	0.76
13:AN:63:VAL:HG23	13:AN:84:CYS:CA	2.15	0.76
13:AN:11:ALA:HA	13:AN:99:PHE:CB	2.15	0.76
15:AP:47:GLU:OE2	15:AP:152:SER:N	2.18	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1148:U:H2'	34:BA:1149:C:C6	2.21	0.76
34:BA:1511:G:H2'	34:BA:1512:U:O4'	1.85	0.76
34:BA:1518:A:H8	34:BA:1518:A:O5'	1.67	0.76
34:BA:198:G:O2'	34:BA:199:G:O5'	2.04	0.76
34:BA:219:C:C6	34:BA:219:C:H3'	2.20	0.76
34:BA:30:U:H4'	34:BA:31:G:OP2	1.86	0.76
34:BA:504:C:H42	34:BA:541:G:H1	1.30	0.76
34:BA:397:A:N7	34:BA:548:G:C8	2.54	0.76
34:BA:673:G:N2	34:BA:674:G:C2	2.54	0.76
34:BA:859:A:O2'	34:BA:860:A:H5'	1.86	0.76
37:BE:213:LEU:CD2	37:BE:214:ILE:HD13	2.16	0.76
34:BA:619:U:N3	39:BG:135:LEU:HD21	1.99	0.76
40:BH:98:THR:O	40:BH:101:ILE:HD11	1.85	0.76
43:BK:24:THR:O	43:BK:60:ARG:CG	2.33	0.76
43:BK:6:ILE:HD13	43:BK:7:ALA:HA	1.67	0.76
51:BS:42:ARG:C	51:BS:43:LYS:HD2	2.05	0.76
55:BW:73:HIS:O	55:BW:74:LYS:O	2.03	0.76
10:AK:103:GLN:HE21	10:AK:110:LEU:N	1.84	0.76
25:A1:59:ARG:HA	25:A1:62:ILE:HG12	1.66	0.76
26:A2:3:ALA:HB1	26:A2:39:PHE:CZ	2.20	0.76
25:A1:89:ASP:OD1	26:A2:51:ALA:C	2.24	0.76
27:A3:44:LYS:HB3	27:A3:45:PHE:HD1	1.51	0.76
2:AA:1366:A:C8	2:AA:1366:A:OP2	2.39	0.76
2:AA:1437:C:O2'	2:AA:1516:U:O2'	2.03	0.76
2:AA:1520:U:O5'	2:AA:1520:U:H6	1.69	0.76
2:AA:1394:U:H4'	2:AA:1603:A:H4'	1.67	0.76
2:AA:2535:G:H2'	2:AA:2535:G:N3	1.99	0.76
2:AA:2591:C:H2'	2:AA:2592:G:C8	2.20	0.76
2:AA:270:A:N7	2:AA:270(A):A:H8	1.83	0.76
2:AA:319:C:H42	2:AA:323:G:H1	1.31	0.76
2:AA:325:G:O2'	2:AA:326:G:H5'	1.86	0.76
2:AA:342:G:H22	2:AA:344:G:N2	1.83	0.76
2:AA:391:G:H2'	2:AA:392:C:C6	2.20	0.76
2:AA:34:C:C2'	2:AA:455:C:N4	2.49	0.76
2:AA:563:G:OP1	26:A2:79:GLN:NE2	2.17	0.76
2:AA:572:A:N7	2:AA:573:G:C5	2.54	0.76
2:AA:680:G:H2'	2:AA:681:G:C8	2.21	0.76
2:AA:715:G:C2	2:AA:716:A:C2	2.74	0.76
2:AA:759:G:H2'	2:AA:760:G:H8	1.50	0.76
2:AA:796:C:H2'	2:AA:797:C:C6	2.20	0.76
2:AA:886:C:H1'	2:AA:887:A:C8	2.21	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:100:G:H2'	1:AB:101:A:O4'	1.85	0.76
1:AB:17:C:H2'	1:AB:18:G:O4'	1.86	0.76
2:AA:2218:G:H5'	4:AD:147:PRO:HG3	1.68	0.76
2:AA:617:G:H4'	6:AF:219:ASN:CG	2.06	0.76
6:AF:236:THR:O	6:AF:239:ALA:CB	2.33	0.76
7:AG:93:LEU:HD13	7:AG:106:PHE:CD2	2.21	0.76
9:AI:114:ILE:O	9:AI:118:LEU:HG	1.85	0.76
10:AK:28:ASN:CG	10:AK:32:LYS:HG3	2.06	0.76
10:AK:5:PHE:CD2	10:AK:5:PHE:N	2.48	0.76
16:AQ:12:ARG:HD2	16:AQ:20:TYR:CE1	2.20	0.76
17:AR:50:GLU:HA	17:AR:55:ALA:HB2	1.66	0.76
18:AS:81:ALA:HB2	18:AS:99:ARG:NH1	2.01	0.76
20:AU:46:ASP:OD2	20:AU:101:LEU:HA	1.85	0.76
20:AU:23:VAL:CG2	20:AU:67:LEU:HD21	2.11	0.76
34:BA:1062:U:N3	34:BA:1063:C:N4	2.33	0.76
34:BA:1463:C:O2'	34:BA:1464:G:H5'	1.86	0.76
34:BA:3(A):G:C5	34:BA:1004:A:H1'	2.21	0.76
34:BA:443:C:H42	34:BA:491:G:H1	1.34	0.76
37:BE:16:HIS:CD2	37:BE:210:SER:HA	2.21	0.76
39:BG:104:VAL:HG21	39:BG:140:VAL:CG2	2.15	0.76
39:BG:154:ASN:HA	39:BG:159:ARG:HH22	1.50	0.76
45:BM:48:THR:HG23	45:BM:61:GLU:O	1.85	0.76
53:BU:46:GLU:C	53:BU:48:GLY:H	1.86	0.76
34:BA:806:C:N4	34:BA:807:A:N6	2.33	0.76
2:AA:2897:U:H2'	2:AA:2898:U:H6	1.49	0.76
24:A0:43:GLU:N	24:A0:43:GLU:OE2	2.18	0.76
24:A0:83:ILE:CG2	24:A0:86:ARG:NE	2.49	0.76
25:A1:111:ASP:HA	25:A1:114:ARG:CD	2.16	0.76
26:A2:61:VAL:CG2	26:A2:97:GLY:HA2	2.16	0.76
28:A4:73:LYS:OXT	28:A4:73:LYS:HG3	1.83	0.76
31:A7:21:ARG:HH12	31:A7:42:LEU:HB3	1.51	0.76
33:A9:9:LYS:HG2	33:A9:14:CYS:O	1.86	0.76
2:AA:1014:U:H2'	2:AA:1015:G:C5'	2.15	0.76
2:AA:1056:G:O6	2:AA:1101:U:H3'	1.86	0.76
2:AA:1085:A:H5''	9:AI:34:ALA:HA	1.68	0.76
2:AA:1179:C:H4'	2:AA:1180:C:OP1	1.84	0.76
2:AA:134:C:H2'	2:AA:135:G:O4'	1.85	0.76
2:AA:1434:A:C5	2:AA:1560:G:N2	2.55	0.76
2:AA:1436:G:O2'	2:AA:1437:C:H5'	1.86	0.76
2:AA:2457:U:O2'	2:AA:2458:G:H5'	1.86	0.76
2:AA:2612:C:O2'	2:AA:2613:U:P	2.44	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2564:A:C6	2:AA:2647:U:H4'	2.21	0.76
2:AA:2739:U:C3'	2:AA:2739:U:H6	1.97	0.76
2:AA:35:G:H1'	2:AA:454:A:N3	2.01	0.76
2:AA:64:A:H2'	2:AA:65:C:O4'	1.86	0.76
2:AA:681:G:H1	2:AA:796:C:N4	1.84	0.76
2:AA:897:C:O3'	35:BB:56:C:OP1	2.02	0.76
2:AA:977:G:C5	2:AA:987:G:C2	2.74	0.76
3:AC:123:VAL:HG11	3:AC:138:PRO:CD	2.16	0.76
3:AC:215:THR:OG1	3:AC:216:THR:N	2.18	0.76
3:AC:43:VAL:CG2	3:AC:175:VAL:HG11	2.16	0.76
5:AE:263:GLU:N	5:AE:266:LYS:NZ	2.28	0.76
6:AF:193:LEU:HD12	6:AF:233:THR:HG22	1.68	0.76
1:AB:45:A:H1'	7:AG:76:ARG:HH12	1.50	0.76
8:AH:41:THR:O	8:AH:52:THR:CG2	2.34	0.76
9:AJ:64:LYS:HE2	9:AJ:126:GLU:HB3	1.68	0.76
13:AN:22:ILE:CG1	13:AN:41:ALA:HA	2.15	0.76
13:AN:19:VAL:HG13	13:AN:42:THR:C	2.06	0.76
13:AN:87:ILE:HG23	13:AN:92:SER:H	1.49	0.76
20:AU:31:LEU:HD22	20:AU:113:GLU:OE1	1.85	0.76
34:BA:978:A:C6	34:BA:1318:A:N6	2.54	0.76
34:BA:132:C:N3	34:BA:231:G:C2	2.54	0.76
34:BA:1454:G:H2'	34:BA:1455:G:C8	2.21	0.76
34:BA:819:A:C2	34:BA:1529:G:C6	2.74	0.76
34:BA:766:A:C2'	34:BA:767:A:H8	1.90	0.76
38:BF:91:LEU:HD23	38:BF:92:ALA:N	1.99	0.76
39:BG:179:GLU:C	39:BG:181:MET:N	2.38	0.76
48:BP:78:ILE:HA	48:BP:88:ARG:NH2	2.01	0.76
34:BA:1216:G:H5''	49:BQ:5:ALA:CB	2.16	0.76
52:BT:6:LEU:CD2	52:BT:23:VAL:HG11	2.16	0.76
54:BV:28:LYS:O	54:BV:29:ARG:HG3	1.86	0.76
55:BW:50:GLU:H	55:BW:99:LEU:CD1	1.99	0.76
55:BW:62:LEU:HD23	55:BW:62:LEU:H	1.51	0.76
10:AK:125:GLY:C	10:AK:144:HIS:HA	2.05	0.76
18:AS:19:LEU:O	29:A5:25:LEU:HD12	1.86	0.75
31:A7:30:ILE:HD13	31:A7:33:ARG:HD2	1.68	0.75
2:AA:1286:A:N6	2:AA:1289:C:C2	2.54	0.75
2:AA:128:C:H2'	2:AA:129:C:H6	1.49	0.75
2:AA:1320:C:N4	2:AA:1329:U:H5'	2.00	0.75
2:AA:136:G:N1	2:AA:143:C:O2	2.19	0.75
2:AA:1787:A:H2'	2:AA:1788:C:C6	2.20	0.75
2:AA:1851:U:H3	2:AA:1891:G:H1	1.34	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1903:G:N3	2:AA:1904:G:C8	2.54	0.75
2:AA:1995:U:C6	2:AA:1996:C:H5	2.04	0.75
2:AA:215:G:O2'	2:AA:216:A:H5''	1.86	0.75
2:AA:2447:G:C5	2:AA:2501:C:C2	2.73	0.75
2:AA:2063:C:O2	2:AA:2450:A:N1	2.20	0.75
2:AA:2469:A:H2'	2:AA:2470:G:H5'	1.68	0.75
2:AA:621:A:H2'	2:AA:622:G:C5'	2.11	0.75
2:AA:6:A:H5'	12:AM:4:ALA:HB3	1.68	0.75
2:AA:974:G:N7	26:A2:80:TYR:CZ	2.55	0.75
4:AD:145:LEU:HD13	4:AD:146:LYS:HZ2	1.51	0.75
4:AD:89:ASN:ND2	4:AD:199:ARG:CZ	2.48	0.75
2:AA:2785:C:H4'	5:AE:99:VAL:HG13	1.68	0.75
6:AF:213:ALA:CB	6:AF:218:VAL:HG22	2.07	0.75
6:AF:93:LYS:C	6:AF:95:GLU:N	2.30	0.75
10:AK:2:LYS:HD2	10:AK:39:ALA:CB	2.15	0.75
12:AM:87:LEU:HD22	12:AM:98:PHE:CD1	2.21	0.75
2:AA:871:U:C4'	15:AP:90:PHE:CE2	2.67	0.75
1:AB:104:A:C1'	21:AV:24:TYR:OH	2.32	0.75
23:AX:55:ARG:NH1	23:AX:55:ARG:CB	2.49	0.75
34:BA:114:U:H2'	34:BA:114:U:O2	1.85	0.75
34:BA:1375:A:C2	34:BA:1376:U:C2	2.74	0.75
34:BA:197:A:N6	34:BA:221:C:C5'	2.48	0.75
34:BA:771:G:H2'	34:BA:772:U:H6	1.50	0.75
34:BA:800:G:H8	34:BA:800:G:O5'	1.68	0.75
35:BB:34:G:O6	36:B1:66:G:OP2	2.04	0.75
35:BB:60:C:H4'	35:BB:61:C:OP2	1.85	0.75
35:BB:75:C:C5	35:BB:76:A:C2	2.74	0.75
35:BC:37:G:C4	35:BC:38:A:N7	2.54	0.75
35:BC:46:G:OP2	35:BC:46:G:H8	1.69	0.75
37:BE:222:ILE:O	37:BE:226:ARG:HG3	1.85	0.75
38:BF:59:ARG:NE	38:BF:64:VAL:HG22	2.01	0.75
38:BF:55:VAL:HG13	38:BF:68:VAL:HG22	1.66	0.75
34:BA:8:A:H5'	40:BH:120:THR:O	1.86	0.75
40:BH:57:LYS:CG	40:BH:61:TYR:HE2	1.99	0.75
42:BJ:78:ARG:O	42:BJ:80:VAL:HG23	1.85	0.75
44:BL:7:THR:O	44:BL:83:ARG:HD2	1.84	0.75
34:BA:1060:C:H5''	45:BM:51:ARG:HB3	1.69	0.75
46:BN:62:GLN:NE2	46:BN:63:LEU:HG	1.96	0.75
49:BQ:9:LYS:HZ2	49:BQ:10:ALA:HB2	1.48	0.75
10:AK:110:LEU:HD11	10:AK:133:LEU:CD2	2.16	0.75
10:AK:88:ARG:HB3	10:AK:122:ARG:CG	2.14	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:115:ILE:CG2	10:AK:131:VAL:HG22	2.11	0.75
10:AK:75:LEU:O	10:AK:142:LYS:NZ	2.16	0.75
10:AK:77:VAL:HG11	10:AK:143:VAL:HG22	1.68	0.75
24:A0:67:LEU:CD2	24:A0:71:GLN:HA	2.16	0.75
26:A2:5:ILE:HG23	26:A2:39:PHE:HA	1.68	0.75
28:A4:40:HIS:HB3	28:A4:41:PRO:CD	2.15	0.75
29:A5:18:MET:HA	29:A5:21:SER:HB3	1.67	0.75
30:A6:35:LEU:HD23	30:A6:35:LEU:H	1.51	0.75
2:AA:1368:G:OP1	31:A7:25:LYS:CD	2.34	0.75
2:AA:1025:G:C8	2:AA:1134:G:O4'	2.39	0.75
2:AA:1238:G:H2'	2:AA:1239:G:H5'	1.66	0.75
2:AA:1287:A:C8	24:A0:104:ARG:NH1	2.53	0.75
2:AA:1439:A:H8	2:AA:1440:G:C8	2.03	0.75
2:AA:1748:G:H2'	2:AA:1749:A:H8	1.50	0.75
2:AA:1784:A:H4'	2:AA:1785:A:H5''	1.67	0.75
2:AA:1993:U:H2'	2:AA:1994:C:H5'	1.66	0.75
2:AA:201:C:C5	2:AA:202:U:C4	2.74	0.75
2:AA:2052:G:H2'	2:AA:2053:G:H8	1.51	0.75
2:AA:2286:A:H2	30:A6:27:ASN:HB3	1.52	0.75
2:AA:2423:U:H5'	2:AA:2423:U:C6	2.21	0.75
2:AA:2491:U:C2'	2:AA:2491:U:O2	2.35	0.75
2:AA:2578:G:O2'	2:AA:2579:C:O5'	2.04	0.75
2:AA:2684:U:H4'	13:AN:76:TYR:CE2	2.20	0.75
2:AA:273(F):C:H5'	2:AA:274:G:OP2	1.84	0.75
2:AA:295:G:O6	2:AA:344:G:O6	2.03	0.75
2:AA:479:A:N7	2:AA:481:G:C4	2.54	0.75
2:AA:997:G:H4'	25:A1:92:ARG:HH11	1.47	0.75
1:AB:21:G:H1	1:AB:62:C:H42	0.80	0.75
3:AC:58:VAL:HG13	3:AC:199:HIS:HB3	1.69	0.75
4:AD:208:GLY:HA3	4:AD:210:LYS:NZ	2.01	0.75
4:AD:209:ASN:O	4:AD:212:HIS:HB2	1.86	0.75
6:AF:106:GLU:HA	6:AF:109:LEU:HD12	1.67	0.75
8:AH:148:ARG:NH2	8:AH:164:GLU:N	2.35	0.75
12:AM:36:VAL:HG12	12:AM:38:VAL:HG23	1.68	0.75
12:AM:44:ALA:CB	12:AM:132:LEU:CD2	2.64	0.75
15:AP:45:GLN:HG2	15:AP:125:TRP:NE1	2.00	0.75
15:AP:26:LYS:CD	15:AP:89:PRO:HD2	2.10	0.75
2:AA:2320:A:N1	16:AQ:13:ARG:CG	2.50	0.75
20:AU:81:LYS:HB3	20:AU:81:LYS:HZ2	1.49	0.75
23:AX:4:LEU:HG	23:AX:37:LEU:O	1.86	0.75
34:BA:1025:U:H2'	34:BA:1026:G:C8	2.20	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1410:G:N2	34:BA:1490:C:N3	2.33	0.75
34:BA:1514:C:H2'	34:BA:1515:C:H6	1.50	0.75
34:BA:585:G:H4'	47:BO:8:ASN:HD21	1.50	0.75
34:BA:613:C:H42	34:BA:627:G:H1	0.79	0.75
34:BA:688:G:H1	34:BA:699:C:N4	1.84	0.75
34:BA:947:G:H2'	34:BA:948:C:H6	1.49	0.75
35:BB:35:A:C8	35:BB:36:A:N7	2.55	0.75
37:BE:102:LEU:HB2	37:BE:176:GLU:OE1	1.86	0.75
37:BE:58:ILE:HG22	37:BE:221:LEU:CD1	2.16	0.75
39:BG:64:LEU:HD22	39:BG:67:ILE:HD12	1.68	0.75
41:BI:17:SER:O	41:BI:20:ALA:HB3	1.87	0.75
43:BK:19:VAL:CG2	43:BK:21:LYS:HG2	2.17	0.75
43:BK:86:ILE:HD11	43:BK:136:GLU:OE1	1.86	0.75
44:BL:12:GLU:H	44:BL:104:ARG:HH22	1.35	0.75
45:BM:58:ASP:O	45:BM:60:ARG:HB2	1.85	0.75
45:BM:6:ILE:CD1	45:BM:23:ILE:HG21	2.16	0.75
50:BR:42:HIS:CD2	50:BR:43:LEU:N	2.55	0.75
34:BA:43:C:H5''	51:BS:12:LYS:HB3	1.66	0.75
51:BS:71:ARG:HG2	51:BS:72:ARG:N	2.00	0.75
10:AK:110:LEU:HD21	10:AK:114:LYS:CG	2.11	0.75
10:AK:125:GLY:O	10:AK:144:HIS:HA	1.85	0.75
37:BE:135:GLN:C	37:BE:139:LYS:HE3	2.07	0.75
24:A0:77:ARG:HH11	24:A0:77:ARG:CB	2.00	0.75
24:A0:76:VAL:HG12	24:A0:77:ARG:N	2.02	0.75
25:A1:111:ASP:O	25:A1:115:ASN:ND2	2.19	0.75
26:A2:67:LYS:HG2	26:A2:70:TYR:CE1	2.21	0.75
27:A3:47:ALA:CB	27:A3:73:GLY:O	2.35	0.75
31:A7:32:ALA:HA	31:A7:35:ARG:CD	2.16	0.75
32:A8:23:MET:HE1	32:A8:48:PHE:HB2	1.67	0.75
2:AA:1138:G:H2'	2:AA:1138:G:N3	2.00	0.75
2:AA:1144:G:H2'	2:AA:1145:C:H6	1.51	0.75
2:AA:443:A:H2	2:AA:1245:G:N3	1.83	0.75
2:AA:1341:U:O4	2:AA:1395:A:C2	2.38	0.75
2:AA:137(A):G:H5''	2:AA:137(A):G:C2	2.21	0.75
2:AA:1470:G:N1	2:AA:1520:U:O4	2.20	0.75
2:AA:1543:A:H5'	2:AA:1544:C:C5	2.20	0.75
2:AA:1558:A:C2	2:AA:1560:G:C1'	2.69	0.75
2:AA:195:A:N6	2:AA:198:C:OP2	2.19	0.75
2:AA:2125:G:P	3:AC:130:ILE:HA	2.25	0.75
2:AA:226:G:C2	2:AA:227:A:N3	2.54	0.75
2:AA:2393:A:OP2	32:A8:32:GLN:NE2	2.18	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2458:G:C8	2:AA:2490:G:C6	2.74	0.75
2:AA:2559:C:O2'	2:AA:2560:C:C5'	2.33	0.75
2:AA:747:U:C5	2:AA:2613:U:H5	2.04	0.75
2:AA:2662:A:H2'	2:AA:2663:G:C5'	2.16	0.75
2:AA:2721:A:C6	2:AA:2873:A:N6	2.54	0.75
2:AA:352:G:C8	2:AA:352:G:O5'	2.39	0.75
2:AA:261:G:C4'	2:AA:608:A:H2	1.99	0.75
2:AA:640:C:C2'	2:AA:641:C:H5'	2.15	0.75
2:AA:878:A:N3	2:AA:879:G:C8	2.54	0.75
2:AA:963:U:H2'	2:AA:964:C:C5	2.21	0.75
5:AE:174:LEU:CD1	5:AE:174:LEU:H	1.96	0.75
12:AM:60:ARG:CA	12:AM:71:TYR:CD2	2.69	0.75
13:AN:41:ALA:O	13:AN:42:THR:HG22	1.86	0.75
13:AN:7:ARG:CZ	13:AN:44:LYS:HD3	2.15	0.75
14:AO:125:PHE:H	14:AO:130:ARG:HE	1.33	0.75
16:AQ:31:LYS:CB	16:AQ:32:PRO:HD3	2.15	0.75
19:AT:9:HIS:O	19:AT:14:ALA:HB1	1.87	0.75
19:AT:3:ASP:CG	19:AT:4:VAL:N	2.40	0.75
20:AU:21:LYS:HG2	20:AU:22:GLN:N	2.02	0.75
22:AW:51:LYS:O	22:AW:54:ALA:HB3	1.85	0.75
23:AX:30:ARG:HG3	23:AX:30:ARG:NH1	1.93	0.75
34:BA:1069:C:N3	34:BA:1106:G:N2	2.35	0.75
34:BA:1237:C:H4'	34:BA:1334:G:N2	2.02	0.75
34:BA:1419:G:O6	34:BA:1482:G:C6	2.39	0.75
34:BA:538:G:OP2	47:BO:115:LYS:HB2	1.85	0.75
34:BA:777:A:O2'	34:BA:778:G:H5'	1.87	0.75
34:BA:782:A:N6	34:BA:801:U:C6	2.55	0.75
34:BA:983:A:H2	34:BA:984:C:C6	2.04	0.75
39:BG:158:ILE:O	39:BG:162:LEU:HG	1.85	0.75
42:BJ:118:VAL:HG12	42:BJ:122:HIS:CE1	2.21	0.75
43:BK:129:VAL:HG22	43:BK:130:GLY:H	1.51	0.75
43:BK:61:VAL:CG1	43:BK:62:TYR:H	1.99	0.75
34:BA:600:C:OP1	43:BK:97:VAL:N	2.20	0.75
45:BM:82:ILE:O	45:BM:86:MET:HB2	1.87	0.75
46:BN:87:THR:HG22	46:BN:91:ARG:NH2	2.01	0.75
34:BA:1226:C:C4	48:BP:104:ARG:HG3	2.21	0.75
48:BP:36:LYS:HD3	48:BP:59:TYR:OH	1.87	0.75
49:BQ:14:PRO:C	49:BQ:16:PHE:N	2.39	0.75
41:BI:95:GLU:O	53:BU:32:ARG:HD2	1.85	0.75
53:BU:39:VAL:O	53:BU:42:ARG:HB2	1.86	0.75
35:BB:39:U:H2'	35:BB:40:C:H6	1.50	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:41:U:N3	35:BB:42:G:N7	2.34	0.75
10:AK:88:ARG:CD	10:AK:122:ARG:HB3	2.14	0.75
10:AK:59:ALA:HA	10:AK:62:LEU:HD12	1.69	0.75
24:A0:51:LEU:HD23	24:A0:66:VAL:CG2	2.15	0.75
24:A0:90:ARG:HB2	24:A0:94:TYR:CE2	2.21	0.75
27:A3:43:THR:OG1	27:A3:44:LYS:N	2.19	0.75
28:A4:68:ARG:NH1	28:A4:72:LYS:HE2	2.02	0.75
2:AA:565:C:O2'	2:AA:1253:A:H2	1.68	0.75
2:AA:15:G:H2'	2:AA:16:G:H5'	1.69	0.75
2:AA:1779:U:C2'	2:AA:1783:A:H62	1.98	0.75
2:AA:1846:G:C2'	2:AA:1847:A:H5'	2.15	0.75
2:AA:188:G:H2'	2:AA:189:G:O4'	1.86	0.75
2:AA:1925:C:O2	2:AA:1925:C:H2'	1.85	0.75
2:AA:2014:A:H2'	2:AA:2015:A:C2	2.22	0.75
2:AA:2300:G:O2'	2:AA:2301:C:H5'	1.87	0.75
2:AA:2416:C:C2'	2:AA:2417:C:C5'	2.65	0.75
2:AA:2575:C:C2'	5:AE:237:ASN:HD21	1.99	0.75
2:AA:2580:U:C6	2:AA:2581:G:C8	2.75	0.75
2:AA:2593:U:H3	2:AA:2600:A:N6	1.83	0.75
2:AA:2699:C:C2	2:AA:2708:G:N2	2.53	0.75
2:AA:271(C):U:O2'	2:AA:271:G:O4'	2.04	0.75
2:AA:2828:C:C2	2:AA:2829:C:C5	2.74	0.75
2:AA:2874:C:OP2	2:AA:2874:C:H3'	1.87	0.75
2:AA:303:U:O2'	2:AA:304:G:H5'	1.87	0.75
2:AA:574:C:H4'	2:AA:575:A:H5''	1.67	0.75
2:AA:584:C:N3	2:AA:1256:G:N2	2.30	0.75
1:AB:81:G:C6	1:AB:82:G:N7	2.54	0.75
3:AC:149:ILE:O	3:AC:153:ILE:HG13	1.86	0.75
3:AC:89:ALA:HA	3:AC:154:ARG:HH12	1.51	0.75
3:AC:26:ALA:HB1	3:AC:185:LEU:CD1	2.16	0.75
6:AF:202:THR:O	6:AF:204:ALA:N	2.20	0.75
6:AF:28:SER:HA	6:AF:31:ILE:HD12	1.67	0.75
6:AF:93:LYS:O	6:AF:98:ARG:NH2	2.20	0.75
9:AI:115:LYS:NZ	9:AI:127:LEU:HD13	2.02	0.75
10:AK:47:LEU:HG	10:AK:48:GLU:H	1.52	0.75
11:AL:55:PRO:CG	11:AL:73:PRO:HA	2.16	0.75
13:AN:58:VAL:HG12	13:AN:59:LYS:N	1.99	0.75
13:AN:89:ASP:O	13:AN:91:LYS:N	2.20	0.75
16:AQ:12:ARG:NH1	16:AQ:20:TYR:CE2	2.54	0.75
20:AU:65:VAL:HG13	20:AU:72:ILE:HD11	1.68	0.75
21:AV:120:LEU:H	21:AV:120:LEU:HD23	1.51	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1007:C:C4	34:BA:1022:G:N1	2.54	0.75
34:BA:1342:C:H1'	44:BL:124:GLN:HB2	1.68	0.75
34:BA:742:G:O2'	34:BA:743:U:H5'	1.85	0.75
34:BA:790:A:N6	34:BA:791:G:N1	2.35	0.75
34:BA:818:G:H3'	34:BA:819:A:C5'	2.15	0.75
38:BF:152:ILE:HD12	38:BF:201:TYR:HE1	1.51	0.75
39:BG:173:TRP:HD1	39:BG:185:PHE:HE2	1.35	0.75
39:BG:191:ARG:HD3	39:BG:191:ARG:C	2.07	0.75
39:BG:192:GLU:OE1	39:BG:192:GLU:N	2.19	0.75
39:BG:19:LEU:HD22	39:BG:21:LEU:HD11	1.67	0.75
40:BH:61:TYR:HA	40:BH:64:ARG:CG	2.16	0.75
41:BI:10:LEU:HD12	41:BI:10:LEU:N	2.02	0.75
43:BK:22:GLU:O	43:BK:62:TYR:HA	1.86	0.75
46:BN:53:SER:O	46:BN:55:LYS:N	2.18	0.75
46:BN:77:MET:C	46:BN:78:GLN:HG3	2.05	0.75
46:BN:85:ARG:HH11	46:BN:85:ARG:HG3	1.50	0.75
49:BQ:13:THR:HG22	49:BQ:13:THR:O	1.87	0.75
49:BQ:47:LEU:O	49:BQ:50:LYS:HB2	1.86	0.75
54:BV:5:LEU:HD12	54:BV:9:VAL:CG1	2.15	0.75
54:BV:77:THR:HG22	54:BV:78:ARG:N	2.00	0.75
34:BA:187:C:N3	55:BW:105:SER:HB3	2.00	0.75
55:BW:86:ARG:CG	55:BW:87:LYS:N	2.48	0.75
24:A0:86:ARG:NH1	24:A0:86:ARG:CB	2.50	0.75
2:AA:2882:A:OP1	24:A0:96:ARG:CD	2.35	0.75
25:A1:50:ARG:NH2	26:A2:73:LYS:O	2.19	0.75
2:AA:856:C:OP1	27:A3:57:HIS:HE1	1.68	0.75
30:A6:54:LYS:NZ	30:A6:54:LYS:HA	2.00	0.75
2:AA:1023:U:OP2	2:AA:1025:G:N1	2.19	0.75
2:AA:1061:U:H4'	2:AA:1070:A:O4'	1.85	0.75
2:AA:1137:G:C6	2:AA:1138:G:H1'	2.21	0.75
2:AA:1148:A:N1	2:AA:1149:G:C6	2.55	0.75
2:AA:1301:A:N7	2:AA:1303:G:O4'	2.20	0.75
2:AA:1341:U:O2'	19:AT:53:ASN:HB3	1.86	0.75
2:AA:1539:G:H2'	2:AA:1540:G:C8	2.21	0.75
2:AA:1900:A:H2	2:AA:1970:A:C6	2.04	0.75
2:AA:2135:A:N6	2:AA:2150:U:H3'	1.99	0.75
2:AA:2369:A:H2'	2:AA:2370:G:C8	2.16	0.75
2:AA:2637:U:H2'	2:AA:2638:G:O4'	1.85	0.75
2:AA:2821:A:OP2	2:AA:2822:G:P	2.45	0.75
2:AA:2864:G:H2'	2:AA:2865:U:C6	2.20	0.75
2:AA:299:A:N1	2:AA:322:A:N7	2.35	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:463:G:N2	2:AA:467:G:C8	2.54	0.75
2:AA:689:A:H2'	2:AA:690:G:O4'	1.87	0.75
2:AA:723:G:H2'	2:AA:724:U:H6	1.51	0.75
3:AC:190:ARG:HA	3:AC:193:ILE:HD12	1.68	0.75
4:AD:157:ALA:O	4:AD:194:VAL:HG11	1.87	0.75
5:AE:205:THR:CG2	5:AE:259:HIS:HB2	2.16	0.75
2:AA:2785:C:H4'	5:AE:99:VAL:CB	2.16	0.75
6:AF:165:ASP:O	6:AF:168:ARG:HB3	1.86	0.75
8:AH:86:LEU:HD12	8:AH:130:ILE:HB	1.68	0.75
9:AI:52:ALA:HB1	9:AI:58:GLU:HB2	1.67	0.75
13:AN:43:VAL:CB	13:AN:56:GLN:H	1.99	0.75
15:AP:84:ARG:NH2	15:AP:86:ARG:NH2	2.34	0.75
18:AS:8:ARG:HG3	18:AS:102:HIS:CE1	2.22	0.75
21:AV:71:MET:HG2	21:AV:78:PRO:HG3	1.69	0.75
34:BA:1086:U:O2	34:BA:1099:G:N2	2.19	0.75
34:BA:1367:C:OP1	44:BL:115:GLY:N	2.17	0.75
34:BA:437:U:H2'	34:BA:438:G:C5'	2.16	0.75
34:BA:68:G:H5'	34:BA:171:A:C1'	2.15	0.75
34:BA:764:C:C2'	34:BA:765:G:C8	2.70	0.75
34:BA:966:G:H2'	34:BA:967:C:C6	2.21	0.75
35:BC:3:G:N2	35:BC:71:G:H1'	2.02	0.75
38:BF:26:LYS:HD3	38:BF:26:LYS:N	2.00	0.75
42:BJ:104:LEU:N	42:BJ:104:LEU:CD2	2.46	0.75
34:BA:707:C:H4'	46:BN:20:TYR:CD2	2.21	0.75
48:BP:20:THR:HA	48:BP:25:ILE:HB	1.68	0.75
49:BQ:26:ARG:HD3	49:BQ:43:CYS:HB3	1.67	0.75
55:BW:73:HIS:O	55:BW:76:ALA:HB3	1.87	0.75
35:BB:40:C:C3'	35:BB:41:U:H5'	2.16	0.75
21:AV:143:ILE:HG22	21:AV:144:GLY:N	2.01	0.75
24:A0:67:LEU:HD21	24:A0:72:ASP:N	2.01	0.75
24:A0:83:ILE:CA	24:A0:86:ARG:HG3	2.17	0.75
31:A7:6:GLN:H	31:A7:6:GLN:NE2	1.85	0.75
33:A9:7:VAL:HG22	33:A9:34:GLN:CG	2.17	0.75
2:AA:2103:C:O2'	2:AA:2104:G:H5'	1.87	0.75
2:AA:2143:C:H6	2:AA:2143:C:OP2	1.70	0.75
2:AA:2547:U:C5	2:AA:2566:A:C5	2.75	0.75
2:AA:2623:G:H4'	2:AA:2826:A:H1'	1.67	0.75
2:AA:107:C:H4'	2:AA:293:U:O2	1.87	0.75
2:AA:408:G:O2'	2:AA:409:C:H5'	1.87	0.75
2:AA:67:U:H2'	2:AA:68:G:H8	1.50	0.75
1:AB:80:U:H4'	2:AA:918:A:C8	2.21	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:979:G:N7	2:AA:981:A:OP2	2.20	0.75
3:AC:48:GLY:HA3	3:AC:210:ARG:NH1	2.01	0.75
4:AD:76:ARG:CB	4:AD:113:MET:HB3	2.16	0.75
4:AD:63:ILE:HD13	4:AD:86:ARG:NH2	2.00	0.75
5:AE:109:ASP:CG	5:AE:112:LEU:HG	2.07	0.75
6:AF:151:GLN:HA	6:AF:154:VAL:CG2	2.16	0.75
7:AG:93:LEU:HB2	7:AG:97:GLN:OE1	1.85	0.75
9:AJ:91:LEU:HD23	9:AJ:94:LYS:HD2	1.68	0.75
13:AN:98:ILE:CG2	13:AN:119:PRO:HD3	2.16	0.75
14:AO:65:ASP:CA	14:AO:108:VAL:HG13	2.14	0.75
15:AP:35:ASN:N	15:AP:76:GLY:H	1.84	0.75
16:AQ:59:ALA:HB3	16:AQ:91:ARG:NH2	2.02	0.75
22:AW:30:ALA:CA	22:AW:34:GLN:HG2	2.16	0.75
23:AX:12:PRO:HB2	23:AX:20:LYS:HE2	1.66	0.75
23:AX:40:THR:OG1	23:AX:43:ILE:HD13	1.86	0.75
36:B1:48:A:H2'	36:B1:49:A:C8	2.22	0.75
34:BA:1119:C:H2'	34:BA:1120:G:C8	2.21	0.75
34:BA:1519:A:H2'	34:BA:1520:G:H5'	1.69	0.75
34:BA:262:A:H2'	34:BA:263:A:C8	2.22	0.75
34:BA:752:G:O4'	34:BA:752:G:OP2	2.05	0.75
34:BA:982:U:H1'	34:BA:983:A:N6	2.01	0.75
38:BF:91:LEU:HD21	38:BF:98:ASN:HA	1.68	0.75
45:BM:16:LEU:CD2	45:BM:94:VAL:HG22	2.15	0.75
47:BO:45:PRO:HB2	47:BO:49:ASN:O	1.86	0.75
48:BP:29:ARG:CZ	48:BP:64:TRP:NE1	2.50	0.75
50:BR:62:GLN:CD	50:BR:65:ARG:HH21	1.89	0.75
55:BW:33:ILE:HD13	55:BW:63:ILE:HA	1.68	0.75
10:AK:63:ALA:HA	10:AK:66:LYS:HE3	1.69	0.75
27:A3:19:LYS:HD3	27:A3:21:LEU:HD21	1.69	0.75
27:A3:68:VAL:O	27:A3:68:VAL:HG12	1.86	0.75
28:A4:7:PRO:O	28:A4:60:ASN:CG	2.25	0.75
2:AA:1394:U:H4'	2:AA:1603:A:C5'	2.15	0.75
2:AA:1420:U:H1'	2:AA:1421:G:N7	2.02	0.75
2:AA:1498:C:O2	2:AA:1499:C:C4	2.40	0.75
2:AA:1563:G:C4	2:AA:1564:C:C5	2.75	0.75
2:AA:1609:A:C8	2:AA:1616:A:H1'	2.22	0.75
2:AA:1645:G:H5'	2:AA:1646:C:O4'	1.87	0.75
2:AA:1663:C:N4	2:AA:1992:G:C8	2.55	0.75
2:AA:1699:G:H2'	2:AA:1700:A:H4'	1.68	0.75
2:AA:1790:C:H5''	2:AA:1828:G:C2	2.21	0.75
2:AA:1923:U:H2'	2:AA:1924:C:C6	2.22	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1992:G:H22	2:AA:1995:U:H5	1.33	0.75
2:AA:220:G:H22	2:AA:427:U:H2'	1.50	0.75
2:AA:2254:C:H2'	2:AA:2255:G:H5'	1.68	0.75
2:AA:954:G:O2'	2:AA:2274:A:N1	2.18	0.75
2:AA:830:G:C5	2:AA:2448:A:N7	2.54	0.75
2:AA:2447:G:O2'	2:AA:2448:A:OP2	2.03	0.75
2:AA:777:A:N1	2:AA:787:U:C4	2.55	0.75
5:AE:300:VAL:O	5:AE:302:GLY:N	2.20	0.75
6:AF:195:VAL:HG11	6:AF:235:PHE:HD2	1.49	0.75
7:AG:104:PHE:CD1	7:AG:104:PHE:N	2.55	0.75
7:AG:36:ASN:O	7:AG:39:ASP:N	2.20	0.75
2:AA:2310:A:C2'	7:AG:55:LYS:HE2	2.13	0.75
8:AH:104:LEU:N	8:AH:104:LEU:HD12	2.01	0.75
9:AI:64:LYS:HE2	9:AI:126:GLU:HB3	1.67	0.75
11:AL:129:GLU:CG	11:AL:133:LYS:HE3	2.16	0.75
13:AN:63:VAL:CG1	13:AN:102:VAL:HG13	2.10	0.75
15:AP:17:ARG:CA	15:AP:22:GLY:HA3	2.17	0.75
15:AP:82:LYS:HD3	15:AP:84:ARG:HE	1.52	0.75
17:AR:50:GLU:HA	17:AR:55:ALA:HB3	1.68	0.75
18:AS:84:ARG:O	18:AS:95:ILE:HA	1.87	0.75
18:AS:90:ARG:CZ	18:AS:90:ARG:CB	2.63	0.75
15:AP:36:ASN:HB2	21:AV:114:ASP:OD1	1.85	0.75
21:AV:41:ARG:H	21:AV:41:ARG:HE	1.33	0.75
21:AV:68:ALA:HB3	21:AV:82:ASP:OD2	1.87	0.75
21:AV:64:ALA:CB	21:AV:84:TYR:O	2.33	0.75
36:B1:70:U:H4'	36:B1:71:A:OP1	1.86	0.75
34:BA:173:U:H5'	34:BA:197:A:O4'	1.85	0.75
34:BA:775:G:N2	34:BA:804:U:O4	2.18	0.75
34:BA:895:G:H2'	34:BA:896:C:C6	2.21	0.75
34:BA:968:A:C5'	34:BA:969:A:OP2	2.33	0.75
37:BE:112:VAL:HG12	37:BE:116:GLU:OE2	1.87	0.75
37:BE:74:LYS:HG2	37:BE:76:GLN:HB2	1.67	0.75
38:BF:84:ILE:CD1	38:BF:101:LEU:HD22	2.17	0.75
40:BH:100:VAL:CG1	40:BH:107:ARG:HG3	2.16	0.75
42:BJ:129:GLU:CB	42:BJ:131:LYS:HG2	2.17	0.75
40:BH:78:HIS:CB	43:BK:107:LEU:HD11	2.17	0.75
34:BA:1347:G:C3'	44:BL:108:VAL:HA	2.11	0.75
50:BR:15:PHE:CE2	50:BR:30:ALA:HB2	2.21	0.75
10:AK:88:ARG:HE	10:AK:123:ALA:HB2	1.52	0.75
10:AK:124:LEU:HD21	10:AK:147:GLU:H	1.52	0.75
29:A5:10:LYS:HZ2	29:A5:10:LYS:CA	1.95	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:A5:57:VAL:CG1	29:A5:58:LEU:H	1.98	0.75
2:AA:54:G:H1'	31:A7:35:ARG:NH2	2.01	0.75
2:AA:1181:C:O2'	2:AA:1182:A:O5'	2.04	0.75
2:AA:1656:C:OP1	5:AE:212:GLY:HA3	1.87	0.75
2:AA:16:G:C4'	29:A5:18:MET:CE	2.63	0.75
2:AA:1791:A:N1	2:AA:1829:A:O4'	2.20	0.75
2:AA:237:C:H2'	2:AA:238:C:H6	1.52	0.75
2:AA:2552:U:O2	2:AA:2554:U:H5''	1.87	0.75
2:AA:2564:A:O2'	2:AA:2565:A:H5'	1.87	0.75
2:AA:2573:C:C6	2:AA:2573:C:H3'	2.22	0.75
2:AA:270(J):G:N2	2:AA:270(K):C:H1'	2.02	0.75
2:AA:2745:C:H42	2:AA:2759:G:H1	1.34	0.75
2:AA:2809:A:C4'	2:AA:2811:G:N7	2.50	0.75
2:AA:287:C:N3	2:AA:353:G:O6	2.20	0.75
2:AA:447:A:C1'	2:AA:449:A:N6	2.21	0.75
2:AA:487:C:N4	2:AA:493:G:H1	1.83	0.75
2:AA:734:A:H2	2:AA:735:A:H1'	1.51	0.75
1:AB:17:C:H2'	1:AB:18:G:C8	2.21	0.75
1:AB:16:G:H22	1:AB:69:G:H1'	1.51	0.75
6:AF:219:ASN:H	6:AF:222:ASP:CG	1.90	0.75
2:AA:600:G:H5''	6:AF:27:ARG:NH1	2.01	0.75
7:AG:63:ILE:O	7:AG:65:GLU:N	2.20	0.75
8:AH:43:THR:HG22	8:AH:52:THR:CG2	2.17	0.75
8:AH:70:LEU:HA	8:AH:73:ASN:ND2	2.02	0.75
10:AK:6:LEU:HD22	10:AK:14:LYS:CD	2.16	0.75
12:AM:58:GLU:O	12:AM:61:VAL:N	2.20	0.75
14:AO:79:ASP:CG	14:AO:80:ASP:N	2.40	0.75
15:AP:82:LYS:HB2	15:AP:125:TRP:H	1.49	0.75
16:AQ:11:ARG:HA	16:AQ:14:ARG:NH1	2.02	0.75
16:AQ:30:GLY:O	16:AQ:31:LYS:HB2	1.85	0.75
16:AQ:61:ALA:HB2	16:AQ:88:ALA:CB	2.06	0.75
18:AS:88:ARG:C	18:AS:90:ARG:N	2.37	0.75
2:AA:310:A:P	20:AU:53:GLY:H	2.10	0.75
20:AU:71:VAL:CG2	20:AU:92:ASP:HA	2.15	0.75
21:AV:75:LYS:HE3	21:AV:77:ALA:HB3	1.68	0.75
1:AB:83:G:C4'	23:AX:52:HIS:HD2	1.99	0.75
34:BA:1412:C:H2'	34:BA:1413:A:H8	1.52	0.75
34:BA:152:A:C8	34:BA:153:C:C5	2.75	0.75
34:BA:133:U:H3	34:BA:229:U:H3	1.35	0.75
34:BA:683:G:H2'	34:BA:684:A:C8	2.21	0.75
34:BA:840:C:H5''	34:BA:841:U:O5'	1.85	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:33:U:C4	35:BB:35:A:OP1	2.40	0.75
35:BB:49:C:N3	35:BB:65:G:N2	2.35	0.75
35:BC:8:U:C5	35:BC:13:C:N4	2.54	0.75
37:BE:101:MET:HA	37:BE:108:ILE:CG1	2.17	0.75
37:BE:102:LEU:HD22	37:BE:176:GLU:CB	2.14	0.75
37:BE:71:VAL:HG13	37:BE:93:VAL:O	1.87	0.75
38:BF:12:LEU:HD13	38:BF:17:ASP:HA	1.69	0.75
38:BF:26:LYS:O	38:BF:28:GLN:HG3	1.87	0.75
41:BI:53:ALA:C	41:BI:55:ASP:H	1.88	0.75
43:BK:4:ASP:OD1	43:BK:6:ILE:HG22	1.87	0.75
44:BL:93:ARG:HH22	44:BL:102:LEU:HD13	1.50	0.75
45:BM:49:VAL:HG12	45:BM:50:ILE:N	2.01	0.75
46:BN:18:ARG:NH2	46:BN:37:GLY:HA2	2.01	0.75
48:BP:23:TYR:HB3	48:BP:67:GLU:CA	2.17	0.75
48:BP:6:GLY:O	48:BP:8:GLU:N	2.19	0.75
49:BQ:27:CYS:O	49:BQ:29:ARG:N	2.19	0.75
49:BQ:40:CYS:O	49:BQ:44:LEU:HB3	1.87	0.75
51:BS:4:ILE:HG12	51:BS:65:GLN:O	1.87	0.75
52:BT:61:GLU:HA	52:BT:71:PHE:CD1	2.22	0.75
52:BT:8:GLY:O	52:BT:56:VAL:HA	1.86	0.75
34:BA:736:C:OP1	53:BU:72:ARG:NH2	2.20	0.75
35:BB:22:G:C4	35:BB:23:A:N7	2.55	0.75
24:A0:58:GLY:HA2	24:A0:80:PHE:CZ	2.21	0.75
25:A1:29:SER:OG	25:A1:30:LYS:HD2	1.87	0.75
26:A2:40:VAL:HB	26:A2:51:ALA:HB1	1.67	0.75
26:A2:87:ARG:HB3	26:A2:87:ARG:HH11	1.50	0.75
27:A3:49:GLN:NE2	27:A3:49:GLN:N	2.28	0.75
28:A4:17:GLN:HG2	28:A4:34:ASP:N	2.02	0.75
2:AA:397:G:OP1	28:A4:41:PRO:HG3	1.86	0.75
2:AA:1085:A:P	9:AI:36:PRO:HD2	2.26	0.75
2:AA:1240:U:C3'	2:AA:1241:A:H8	1.97	0.75
2:AA:1476:C:H5	2:AA:1477:A:C2	2.05	0.75
2:AA:1491:G:O2'	2:AA:1492:G:O4'	2.05	0.75
2:AA:1521:G:H3'	2:AA:1522:G:H8	1.52	0.75
2:AA:1602:U:OP2	2:AA:1602:U:N3	2.20	0.75
2:AA:1647:G:H3'	2:AA:1647:G:OP2	1.87	0.75
2:AA:729:G:C6	2:AA:1775:U:N3	2.55	0.75
2:AA:2025:C:H2'	2:AA:2026:C:C6	2.21	0.75
2:AA:2118:U:H3'	2:AA:2118:U:C6	2.21	0.75
2:AA:226:G:H21	2:AA:227:A:H1'	1.52	0.75
2:AA:2377:A:H2'	2:AA:2378:A:C8	2.21	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2436:G:C6	2:AA:2437:U:C4	2.74	0.75
2:AA:270(C):C:C4	2:AA:270(W):G:N1	2.55	0.75
2:AA:374:A:C2	2:AA:375:C:H1'	2.22	0.75
2:AA:796:C:H2'	2:AA:797:C:H6	1.51	0.75
2:AA:928:G:N2	2:AA:929:G:H1	1.85	0.75
4:AD:208:GLY:HA3	4:AD:210:LYS:CE	2.16	0.75
8:AH:34:ARG:HG2	8:AH:35:THR:N	2.01	0.75
9:AJ:78:ARG:HG2	9:AJ:88:ALA:HB1	1.69	0.75
15:AP:48:ASN:OD1	15:AP:121:ASP:HB3	1.87	0.75
18:AS:6:ILE:HA	18:AS:103:ILE:O	1.86	0.75
18:AS:73:ALA:HB3	18:AS:106:ILE:CD1	2.17	0.75
20:AU:73:HIS:CE1	20:AU:90:PRO:HA	2.20	0.75
34:BA:1259:C:N4	34:BA:1276:G:H1	1.85	0.75
34:BA:1407:C:C2'	34:BA:1408:A:H5'	2.17	0.75
34:BA:22:G:H2'	34:BA:23:C:O4'	1.87	0.75
34:BA:274:A:O2'	34:BA:275:G:O4'	2.05	0.75
34:BA:416:G:H2'	34:BA:417:C:C6	2.22	0.75
34:BA:766:A:C8	34:BA:814:A:N1	2.55	0.75
37:BE:163:PHE:HA	37:BE:185:ILE:O	1.86	0.75
38:BF:70:VAL:O	38:BF:106:VAL:HG23	1.86	0.75
42:BJ:34:GLY:O	42:BJ:36:LYS:N	2.19	0.75
43:BK:18:ARG:HH22	43:BK:78:GLN:HG3	1.50	0.75
50:BR:74:ASP:OD2	50:BR:76:GLU:HB3	1.87	0.75
34:BA:277:C:H5''	52:BT:68:ARG:HH22	1.49	0.75
55:BW:50:GLU:CA	55:BW:99:LEU:HB2	2.17	0.75
35:BB:11:C:C4	35:BB:12:U:O4	2.39	0.75
1:AB:12:C:C5	27:A3:53:MET:CA	2.67	0.75
36:B1:41:U:H2'	36:B1:42:G:C8	2.22	0.75
2:AA:2356:C:OP1	27:A3:21:LEU:HD21	1.85	0.74
2:AA:2354:G:O2'	27:A3:31:VAL:CG1	2.34	0.74
32:A8:5:LYS:HD2	32:A8:5:LYS:N	2.02	0.74
2:AA:1089:G:H8	2:AA:1089:G:O5'	1.68	0.74
2:AA:1108:U:C4	2:AA:1109:C:C4	2.75	0.74
2:AA:1022:G:N3	2:AA:1139:G:N2	2.35	0.74
2:AA:1245:G:O2'	2:AA:1246:A:H5'	1.86	0.74
2:AA:1302:A:H5''	2:AA:1303:G:OP2	1.87	0.74
2:AA:1363:C:O2	2:AA:1363:C:C2'	2.35	0.74
2:AA:1414:G:H1	2:AA:1588:C:H42	1.31	0.74
2:AA:182:A:H2'	2:AA:183:C:C6	2.22	0.74
2:AA:1842:G:H2'	2:AA:1843:C:O4'	1.85	0.74
2:AA:1872:A:H2'	2:AA:1878:G:C5'	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1999:C:N3	2:AA:2000:G:C8	2.55	0.74
2:AA:2027:G:H1'	2:AA:2037:G:N2	2.02	0.74
2:AA:2195:C:C2'	2:AA:2196:C:O4'	2.33	0.74
2:AA:2218:G:C4'	4:AD:147:PRO:HG3	2.16	0.74
2:AA:2396:G:O2'	28:A4:27:THR:HG22	1.87	0.74
2:AA:2476:A:N7	2:AA:2477:C:H5	1.83	0.74
2:AA:2682:U:O2'	2:AA:2683:C:H5'	1.86	0.74
2:AA:327:G:H2'	2:AA:328:U:H5'	1.67	0.74
2:AA:371:A:O2'	2:AA:372:G:P	2.45	0.74
2:AA:489:G:C2	2:AA:491:G:C4	2.75	0.74
2:AA:596:G:H2'	2:AA:597:U:O4'	1.87	0.74
2:AA:673:C:OP1	6:AF:81:PRO:HG2	1.86	0.74
2:AA:69:C:O2	2:AA:69:C:H2'	1.87	0.74
2:AA:803:U:H2'	2:AA:804:A:H5'	1.68	0.74
3:AC:5:LYS:O	3:AC:6:ARG:HG2	1.87	0.74
5:AE:85:ALA:HB3	5:AE:87:GLU:OE2	1.86	0.74
7:AG:26:GLY:O	7:AG:53:LYS:NZ	2.20	0.74
9:AI:42:ALA:HB3	9:AI:43:PRO:HD3	1.67	0.74
12:AM:88:PRO:O	12:AM:94:GLY:HA3	1.86	0.74
13:AN:63:VAL:HG23	13:AN:84:CYS:HA	1.68	0.74
19:AT:28:VAL:HG11	19:AT:64:ALA:HB3	1.69	0.74
34:BA:1108:G:N7	34:BA:1109:C:C5	2.56	0.74
34:BA:1298:C:H4'	34:BA:1299:A:C2	2.22	0.74
34:BA:281:G:HO2'	34:BA:282:A:H8	1.34	0.74
34:BA:296:U:C4	34:BA:297:G:N7	2.55	0.74
34:BA:366:C:O2'	34:BA:367:U:OP1	2.05	0.74
34:BA:50:A:O2'	34:BA:52:G:N7	2.19	0.74
34:BA:745:C:H2'	34:BA:746:A:C8	2.21	0.74
34:BA:917:G:O2'	34:BA:918:A:H5'	1.87	0.74
34:BA:996:A:N1	34:BA:997:U:C4	2.54	0.74
42:BJ:72:ARG:HH22	42:BJ:138:LYS:HZ3	1.34	0.74
43:BK:112:LEU:HD21	43:BK:131:GLY:C	2.07	0.74
44:BL:111:ARG:HD2	49:BQ:61:TRP:NE1	2.02	0.74
47:BO:70:ILE:HG21	47:BO:77:LEU:HD11	1.67	0.74
48:BP:60:VAL:CA	48:BP:63:THR:HG22	2.17	0.74
50:BR:18:PHE:CE1	50:BR:21:ASP:HB2	2.22	0.74
50:BR:61:GLY:O	50:BR:64:ARG:HG2	1.86	0.74
52:BT:6:LEU:HB2	52:BT:23:VAL:HG21	1.69	0.74
54:BV:64:GLU:CG	54:BV:65:ASN:H	1.98	0.74
10:AK:89:LEU:O	10:AK:122:ARG:NE	2.18	0.74
10:AK:136:GLU:OE1	10:AK:136:GLU:N	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:167:LEU:CG	8:AH:169:ARG:HH12	1.99	0.74
25:A1:59:ARG:O	25:A1:62:ILE:HB	1.86	0.74
25:A1:96:ALA:O	25:A1:99:ALA:N	2.20	0.74
26:A2:31:ASP:O	26:A2:33:VAL:HG23	1.86	0.74
26:A2:20:ILE:CD1	26:A2:67:LYS:HZ3	2.00	0.74
2:AA:1084:A:OP1	9:AI:39:VAL:C	2.25	0.74
2:AA:1085:A:C1'	2:AA:1086:A:H4'	2.06	0.74
2:AA:148:C:H2'	2:AA:149:A:C8	2.22	0.74
2:AA:1551:C:H2'	2:AA:1552:G:H8	1.51	0.74
2:AA:1796:U:O4	2:AA:1823:G:O6	2.05	0.74
2:AA:2137:C:N4	2:AA:2155:G:O2'	2.19	0.74
2:AA:2294:C:H2'	2:AA:2294:C:O2	1.86	0.74
2:AA:2744:G:O2'	2:AA:2745:C:H5'	1.86	0.74
2:AA:2791:C:H2'	2:AA:2792:G:C8	2.21	0.74
2:AA:343:C:H2'	2:AA:344:G:C5'	2.17	0.74
2:AA:492:A:H2'	2:AA:493:G:O4'	1.86	0.74
2:AA:530:G:O2'	2:AA:531:C:O5'	2.04	0.74
2:AA:71:A:C4'	2:AA:72:U:H5''	2.16	0.74
2:AA:679:C:N4	2:AA:798:G:H1	1.84	0.74
2:AA:974:G:O5'	2:AA:974(A):C:OP1	2.05	0.74
2:AA:997:G:O2'	2:AA:998:C:C5'	2.34	0.74
3:AC:36:LYS:HG3	3:AC:37:PHE:CD2	2.20	0.74
4:AD:63:ILE:O	4:AD:64:ILE:HG13	1.86	0.74
5:AE:194:ARG:HG3	5:AE:197:GLU:OE1	1.88	0.74
5:AE:201:VAL:H	5:AE:266:LYS:HD2	1.47	0.74
8:AH:87:GLU:HG3	8:AH:162:ARG:O	1.87	0.74
9:AI:62:VAL:HG13	9:AI:100:ALA:C	2.08	0.74
14:AO:52:LYS:HE2	14:AO:53:ARG:NH2	2.02	0.74
17:AR:34:SER:O	17:AR:37:GLU:HB3	1.86	0.74
18:AS:46:PHE:O	18:AS:50:VAL:HG23	1.87	0.74
21:AV:40:ASP:O	21:AV:44:ARG:CG	2.34	0.74
23:AX:52:HIS:O	23:AX:54:VAL:N	2.20	0.74
34:BA:1053:G:H5'	34:BA:1054:C:C5'	2.16	0.74
34:BA:1164:G:N1	34:BA:1172:C:N4	2.16	0.74
34:BA:1231:G:H2'	34:BA:1232:U:H6	1.49	0.74
34:BA:1263:C:O2'	34:BA:1264:C:H5'	1.87	0.74
34:BA:409:G:H2'	34:BA:410:G:H8	1.52	0.74
34:BA:421:U:H5''	34:BA:422:C:H5	1.50	0.74
34:BA:579:G:O2'	34:BA:580:U:H5'	1.87	0.74
34:BA:583:A:H2'	34:BA:584:G:O4'	1.87	0.74
34:BA:694:A:H2'	34:BA:695:A:O5'	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:764:C:C3'	34:BA:765:G:H8	1.99	0.74
34:BA:781:A:O2'	34:BA:782:A:H5'	1.87	0.74
35:BB:50:U:O5'	35:BB:50:U:H6	1.69	0.74
42:BJ:140:ASP:HA	42:BJ:143:ARG:HD2	1.68	0.74
44:BL:47:LEU:O	44:BL:47:LEU:HD13	1.88	0.74
45:BM:60:ARG:O	45:BM:61:GLU:HB2	1.86	0.74
51:BS:26:ARG:NH2	51:BS:31:LYS:HE3	2.02	0.74
34:BA:626:U:H5''	51:BS:38:TYR:CD2	2.22	0.74
55:BW:51:GLU:HA	55:BW:54:LYS:CG	2.16	0.74
10:AK:66:LYS:HA	10:AK:69:LYS:HB3	1.68	0.74
36:B1:17:G:O6	36:B1:37:C:N3	2.19	0.74
12:AM:8:ALA:HB1	12:AM:11:ILE:HD11	1.70	0.74
2:AA:1963:U:O2	2:AA:1963:U:H2'	1.85	0.74
28:A4:7:PRO:HD2	28:A4:56:VAL:HG22	1.68	0.74
2:AA:1047:G:N2	2:AA:1111:A:C6	2.55	0.74
2:AA:1080:C:H4'	11:AL:126:LYS:HB3	1.69	0.74
2:AA:137(A):G:O6	2:AA:139:G:C6	2.40	0.74
2:AA:1514:U:H2'	2:AA:1514:U:O2	1.86	0.74
2:AA:1566:A:C2	4:AD:212:HIS:CG	2.74	0.74
2:AA:1943:U:H1'	2:AA:1945:G:H5''	1.70	0.74
2:AA:1953:A:N6	2:AA:2550:G:H4'	2.01	0.74
2:AA:2038:G:O5'	2:AA:2038:G:H8	1.68	0.74
2:AA:2110:G:H8	2:AA:2120:G:OP2	1.68	0.74
2:AA:2130:U:H4'	2:AA:2130:U:OP1	1.86	0.74
2:AA:911:A:H8	2:AA:2264:C:H1'	1.46	0.74
2:AA:2416:C:C2'	2:AA:2417:C:H5''	2.17	0.74
2:AA:2442:C:O2'	2:AA:2443:C:H5'	1.86	0.74
2:AA:2729:G:N3	5:AE:300:VAL:HG21	2.01	0.74
2:AA:2805:G:C8	2:AA:2807:G:O4'	2.40	0.74
2:AA:287:C:O2	2:AA:353:G:N1	2.20	0.74
2:AA:2880:C:O2'	24:A0:90:ARG:HD2	1.87	0.74
2:AA:401:A:N6	2:AA:423:A:C2	2.55	0.74
2:AA:530:G:O2'	2:AA:531:C:C5'	2.36	0.74
2:AA:579:G:H5''	2:AA:2018:G:H5''	1.69	0.74
2:AA:698:C:C5'	2:AA:698:C:H6	2.00	0.74
2:AA:774:A:H5'	2:AA:778:G:H4'	1.67	0.74
2:AA:785:G:H2'	2:AA:785:G:N3	1.99	0.74
2:AA:806:C:H2'	2:AA:807:U:C6	2.22	0.74
3:AC:70:LYS:CG	3:AC:157:LYS:HZ1	1.99	0.74
2:AA:2052:G:H21	5:AE:245:ARG:HB3	1.52	0.74
6:AF:102:LEU:CB	6:AF:107:ARG:HE	1.99	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:167:ASP:HB3	6:AF:232:LEU:N	2.02	0.74
7:AG:20:LYS:HE2	7:AG:76:ARG:HE	1.52	0.74
8:AH:40:MET:N	8:AH:40:MET:SD	2.60	0.74
9:AJ:115:LYS:NZ	9:AJ:127:LEU:HD13	2.02	0.74
11:AL:11:LEU:CD1	11:AL:58:ILE:HD12	2.17	0.74
13:AN:13:ASN:O	13:AN:15:GLY:N	2.20	0.74
17:AR:52:THR:O	17:AR:56:ARG:HA	1.87	0.74
21:AV:62:PHE:CE2	21:AV:87:THR:HB	2.23	0.74
34:BA:1278:U:H5''	34:BA:1279:A:H5'	1.69	0.74
34:BA:1246:C:O2	34:BA:1291:G:N1	2.19	0.74
34:BA:1236:A:H5''	34:BA:1304:G:H5''	1.69	0.74
34:BA:371:G:C2'	34:BA:372:C:H5'	2.16	0.74
34:BA:537:G:O2'	34:BA:538:G:H5'	1.87	0.74
34:BA:559:A:H4'	34:BA:560:U:O5'	1.87	0.74
34:BA:583:A:H2'	34:BA:584:G:H8	1.51	0.74
34:BA:642:A:O2'	43:BK:31:PHE:HE1	1.69	0.74
34:BA:872:A:O2'	34:BA:873:A:OP1	2.05	0.74
40:BH:43:LEU:HD23	40:BH:44:GLY:H	1.53	0.74
40:BH:84:PHE:CB	40:BH:134:ALA:HB2	2.17	0.74
35:BB:72:C:O2'	35:BB:73:A:H5'	1.87	0.74
25:A1:43:ALA:HB1	26:A2:75:LYS:CB	2.18	0.74
2:AA:1084:A:C2	9:AI:29:PHE:CE1	2.76	0.74
2:AA:1084:A:N1	2:AA:1085:A:N1	2.35	0.74
2:AA:1359:A:H2'	2:AA:1360:A:H5'	1.69	0.74
2:AA:1373:A:H2'	2:AA:1374:G:H8	1.52	0.74
2:AA:1529:A:N6	2:AA:1542:G:H22	1.85	0.74
2:AA:1869:G:N3	2:AA:1878:G:O6	2.21	0.74
2:AA:530:G:O6	2:AA:2021:C:H3'	1.87	0.74
2:AA:2131:G:C3'	3:AC:6:ARG:HB2	2.15	0.74
2:AA:2239:G:H2'	2:AA:2240:C:O4'	1.86	0.74
2:AA:245:G:OP1	14:AO:53:ARG:CD	2.34	0.74
2:AA:2628:C:H1'	2:AA:2781:A:H2'	1.69	0.74
2:AA:2804:C:C5	2:AA:2805:G:N1	2.55	0.74
2:AA:308:G:H21	2:AA:329:G:N2	1.85	0.74
2:AA:447:A:C6	2:AA:454:A:N7	2.55	0.74
2:AA:530:G:N2	2:AA:2020:A:O2'	2.21	0.74
2:AA:532:A:O3'	25:A1:25:TRP:HD1	1.70	0.74
2:AA:939:G:O2'	2:AA:940:G:H5'	1.87	0.74
2:AA:989:G:N2	2:AA:990:A:H62	1.86	0.74
4:AD:86:ARG:HD2	4:AD:86:ARG:N	2.02	0.74
5:AE:250:VAL:O	5:AE:251:PRO:O	2.05	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:241:ALA:O	6:AF:244:ALA:HB3	1.88	0.74
9:AJ:114:ILE:O	9:AJ:118:LEU:HG	1.87	0.74
12:AM:35:THR:HG22	12:AM:100:SER:OG	1.87	0.74
12:AM:79:PHE:HD1	12:AM:79:PHE:N	1.85	0.74
12:AM:82:THR:OG1	12:AM:83:ILE:N	2.19	0.74
13:AN:2:ILE:HG13	13:AN:67:ARG:NH2	2.02	0.74
15:AP:12:PRO:HG3	15:AP:92:VAL:H	1.53	0.74
16:AQ:65:ASP:O	16:AQ:66:LEU:HD12	1.87	0.74
18:AS:30:GLU:CA	18:AS:33:ARG:HD3	2.14	0.74
18:AS:84:ARG:O	18:AS:95:ILE:HG23	1.88	0.74
21:AV:45:GLN:N	21:AV:45:GLN:HE21	1.83	0.74
34:BA:1402:C:H2'	34:BA:1403:C:H6	1.52	0.74
34:BA:1540:U:C4	34:BA:1541:U:O4	2.40	0.74
34:BA:19:C:H2'	34:BA:20:U:C6	2.20	0.74
34:BA:320:C:N4	34:BA:333:G:N1	2.12	0.74
34:BA:335:C:C4'	34:BA:1434:A:H4'	2.16	0.74
34:BA:459:G:H21	34:BA:463:A:N6	1.84	0.74
34:BA:766:A:N7	34:BA:814:A:N1	2.35	0.74
34:BA:889:A:H4'	34:BA:890:G:C4'	2.16	0.74
39:BG:132:ARG:HH11	39:BG:132:ARG:HG2	1.50	0.74
39:BG:151:LYS:HD2	39:BG:151:LYS:H	1.52	0.74
39:BG:159:ARG:O	39:BG:163:GLU:HB3	1.87	0.74
40:BH:145:LYS:O	40:BH:148:VAL:HB	1.87	0.74
40:BH:12:LEU:HD12	40:BH:31:LEU:HB3	1.69	0.74
40:BH:91:LEU:HD23	40:BH:91:LEU:C	2.08	0.74
44:BL:32:ASP:O	44:BL:35:GLU:HB3	1.88	0.74
48:BP:13:LYS:HE3	48:BP:21:TYR:OH	1.86	0.74
49:BQ:43:CYS:O	49:BQ:47:LEU:HG	1.87	0.74
34:BA:463:A:H1'	51:BS:82:GLN:NE2	2.00	0.74
53:BU:72:ARG:HG2	53:BU:72:ARG:NH1	1.91	0.74
55:BW:57:ARG:NH2	55:BW:100:ILE:HG22	2.02	0.74
10:AK:93:ILE:HD11	10:AK:121:ILE:CB	2.08	0.74
37:BE:140:HIS:O	37:BE:143:GLU:HB3	1.86	0.74
25:A1:85:ARG:HD2	25:A1:116:ALA:O	1.86	0.74
26:A2:19:VAL:HB	26:A2:21:ARG:NH1	2.02	0.74
26:A2:49:GLU:HB3	26:A2:53:LYS:HD2	1.68	0.74
28:A4:41:PRO:HD2	28:A4:57:ASP:OD2	1.87	0.74
2:AA:1530:G:O6	2:AA:1540:G:C6	2.40	0.74
2:AA:1565:C:HO2'	2:AA:1566:A:H8	1.34	0.74
2:AA:1653:G:H5''	2:AA:1653:G:H8	1.53	0.74
2:AA:1657:C:H2'	2:AA:1658:C:O4'	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1699:G:C8	2:AA:1763:G:N2	2.56	0.74
2:AA:1790:C:P	4:AD:224:VAL:HG13	2.28	0.74
2:AA:1935:G:H22	2:AA:1962:C:C2'	1.89	0.74
2:AA:1973:G:H2'	2:AA:1974:C:C6	2.23	0.74
2:AA:2296:U:H6	2:AA:2296:U:C3'	2.00	0.74
2:AA:2329:G:H2'	2:AA:2330:G:C8	2.21	0.74
2:AA:2457:U:H2'	2:AA:2458:G:C5'	2.17	0.74
2:AA:2468:G:N1	2:AA:2481:G:C4	2.55	0.74
2:AA:273:G:H1	2:AA:364:C:N4	1.86	0.74
2:AA:2783:G:H2'	2:AA:2784:C:O4'	1.87	0.74
2:AA:33:U:O2'	2:AA:34:C:C6	2.38	0.74
2:AA:398:G:C2	2:AA:399:G:H1'	2.23	0.74
2:AA:1449:A:N1	2:AA:449(A):G:C4	2.56	0.74
2:AA:494:G:H4'	18:AS:6:ILE:O	1.86	0.74
2:AA:29:U:OP1	2:AA:583:G:H4'	1.87	0.74
2:AA:673:C:C2	2:AA:808:G:N2	2.55	0.74
6:AF:37:ALA:HB2	6:AF:102:LEU:CD1	2.16	0.74
7:AG:24:HIS:HB2	7:AG:72:LYS:HD3	1.69	0.74
8:AH:86:LEU:HB3	8:AH:130:ILE:O	1.86	0.74
9:AI:64:LYS:CE	9:AI:126:GLU:HB3	2.17	0.74
9:AJ:64:LYS:CE	9:AJ:126:GLU:HB3	2.18	0.74
10:AK:7:LYS:HG3	10:AK:12:LYS:NZ	2.02	0.74
11:AL:19:THR:H	11:AL:20:PRO:CD	1.99	0.74
12:AM:47:THR:O	12:AM:53:ILE:HD13	1.88	0.74
12:AM:84:ARG:HB3	12:AM:98:PHE:CE2	2.22	0.74
14:AO:116:HIS:O	14:AO:118:LEU:CD2	2.35	0.74
15:AP:12:PRO:HG2	15:AP:92:VAL:H	1.51	0.74
19:AT:5:ILE:HG13	19:AT:40:ALA:CB	2.16	0.74
21:AV:19:ILE:HB	21:AV:39:PHE:HE1	1.53	0.74
34:BA:1184:G:H2'	34:BA:1185:G:C8	2.23	0.74
34:BA:1267:C:N4	34:BA:1268:A:C6	2.55	0.74
34:BA:1345:U:O2	34:BA:1377:A:C6	2.41	0.74
37:BE:118:LEU:CD1	37:BE:142:LEU:HA	2.16	0.74
37:BE:222:ILE:HG13	37:BE:226:ARG:NE	2.02	0.74
38:BF:118:GLN:O	38:BF:122:GLU:HG3	1.88	0.74
43:BK:107:LEU:HD23	43:BK:107:LEU:H	1.52	0.74
43:BK:97:VAL:HG22	43:BK:98:LYS:N	2.02	0.74
48:BP:98:VAL:O	48:BP:98:VAL:HG12	1.87	0.74
53:BU:66:LEU:CD1	53:BU:67:ALA:N	2.49	0.74
54:BV:33:THR:HG22	54:BV:34:TRP:H	1.53	0.74
2:AA:2426:A:H8	2:AA:2426:A:OP1	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:A0:100:LEU:HD21	24:A0:113:LEU:CB	2.16	0.74
24:A0:87:TYR:O	24:A0:89:ASP:OD2	2.05	0.74
2:AA:1249:U:H5''	25:A1:4:ALA:HB2	1.70	0.74
25:A1:50:ARG:HH12	26:A2:74:TYR:CB	2.00	0.74
27:A3:33:ALA:HB2	27:A3:65:GLY:HA3	1.70	0.74
29:A5:33:CYS:HB3	29:A5:34:PRO:HD2	1.68	0.74
30:A6:19:GLY:O	30:A6:44:ALA:CB	2.35	0.74
31:A7:21:ARG:CZ	31:A7:42:LEU:HB3	2.18	0.74
2:AA:1076:C:H5'	11:AL:94:ARG:NH2	2.02	0.74
2:AA:1339:G:H22	2:AA:1603:A:H8	1.33	0.74
2:AA:1528:A:N3	2:AA:1529:A:H1'	2.02	0.74
2:AA:1535:U:C5'	2:AA:1536:A:O4'	2.36	0.74
2:AA:1746:G:C2'	2:AA:1747:G:C8	2.70	0.74
2:AA:2149:G:O2'	2:AA:2150:U:H5'	1.85	0.74
2:AA:2136:C:N4	2:AA:2155:G:C6	2.55	0.74
2:AA:214:G:N2	2:AA:215:G:N3	2.34	0.74
2:AA:217:G:H2'	2:AA:218:A:C5'	2.14	0.74
2:AA:2306:C:N4	2:AA:2311:A:H2	1.85	0.74
2:AA:2331:G:N2	2:AA:2385:C:N4	2.35	0.74
2:AA:2497:A:H2'	2:AA:2498:C:OP2	1.86	0.74
2:AA:2504:U:H2'	2:AA:2505:G:H5'	1.69	0.74
2:AA:12:U:O2	2:AA:2627:G:OP1	2.06	0.74
2:AA:270(J):G:N1	2:AA:270(P):C:O2	2.20	0.74
2:AA:2681:C:H5	2:AA:2727:G:C2	2.05	0.74
2:AA:2746:U:H4'	8:AH:138:GLN:HA	1.69	0.74
2:AA:2781:A:H5''	2:AA:2782:G:C5'	2.15	0.74
2:AA:311:A:H1'	2:AA:332:A:C5	2.22	0.74
2:AA:574:C:O2'	2:AA:575:A:OP2	2.03	0.74
2:AA:820:A:N1	2:AA:821:A:N3	2.35	0.74
2:AA:957:A:N7	2:AA:959:A:N7	2.35	0.74
4:AD:106:PRO:HA	4:AD:193:GLU:O	1.87	0.74
6:AF:38:ALA:HB2	6:AF:221:GLU:HG2	1.69	0.74
2:AA:2303:G:H21	7:AG:131:THR:HG21	1.53	0.74
8:AH:106:VAL:CG1	8:AH:106:VAL:O	2.36	0.74
11:AL:37:GLU:O	11:AL:41:ARG:HD2	1.88	0.74
12:AM:16:ASP:HA	12:AM:45:VAL:CG2	2.17	0.74
16:AQ:20:TYR:CE2	16:AQ:21:HIS:CD2	2.76	0.74
21:AV:66:VAL:HG21	21:AV:69:VAL:CG2	2.17	0.74
2:AA:1183:G:H5''	23:AX:29:ARG:NE	2.03	0.74
23:AX:51:ALA:O	23:AX:53:LEU:N	2.20	0.74
34:BA:1080:A:C8	34:BA:1081:G:O4'	2.40	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1182:G:O2'	34:BA:1183:A:OP2	2.04	0.74
34:BA:1239:A:H2'	34:BA:1298:C:H42	1.51	0.74
34:BA:1241:G:O6	34:BA:1296:C:N3	2.19	0.74
34:BA:585:G:C4'	47:BO:8:ASN:HD21	1.99	0.74
34:BA:909:A:C2'	34:BA:910:C:H5'	2.18	0.74
34:BA:986:A:H2'	34:BA:987:G:C8	2.23	0.74
35:BC:9:A:O4'	35:BC:46:G:H1'	1.88	0.74
35:BC:76:A:OP1	35:BC:76:A:H3'	1.88	0.74
37:BE:59:GLU:HA	37:BE:221:LEU:HD11	1.69	0.74
39:BG:128:VAL:CG1	39:BG:129:ASN:N	2.51	0.74
39:BG:18:LYS:C	39:BG:19:LEU:HG	2.06	0.74
40:BH:88:LYS:HB3	40:BH:123:LEU:O	1.86	0.74
41:BI:23:LYS:CA	41:BI:26:ILE:HD12	2.10	0.74
42:BJ:108:ALA:O	42:BJ:119:ARG:HD2	1.87	0.74
52:BT:53:LEU:HD11	52:BT:85:VAL:CG1	2.16	0.74
53:BU:21:LYS:HZ3	53:BU:23:LYS:HB2	1.53	0.74
55:BW:23:ARG:CA	55:BW:26:ASN:HD21	2.00	0.74
55:BW:62:LEU:HA	55:BW:65:LYS:HG2	1.69	0.74
55:BW:62:LEU:HA	55:BW:65:LYS:CG	2.17	0.74
24:A0:73:VAL:HG12	24:A0:77:ARG:NE	2.02	0.74
26:A2:14:VAL:HG12	26:A2:15:SER:H	1.51	0.74
30:A6:19:GLY:CA	30:A6:42:PRO:CB	2.65	0.74
32:A8:10:ALA:CA	32:A8:14:ILE:HG21	2.17	0.74
32:A8:30:ARG:HG2	32:A8:31:HIS:N	2.02	0.74
32:A8:50:LEU:CD2	32:A8:51:ALA:H	1.96	0.74
2:AA:2359:C:C4'	32:A8:52:LYS:NZ	2.49	0.74
2:AA:1061:U:P	2:AA:1061:U:H3'	2.27	0.74
2:AA:1087:G:N2	2:AA:1103:A:H2'	2.02	0.74
2:AA:1195:G:C2'	2:AA:1226:G:H22	2.00	0.74
2:AA:1579:A:H3'	2:AA:1579:A:OP2	1.87	0.74
2:AA:1670:C:H2'	2:AA:1671:U:C5'	2.18	0.74
2:AA:2051:A:H5''	2:AA:2578:G:H5''	1.70	0.74
2:AA:237:C:N4	2:AA:260:G:N1	2.30	0.74
2:AA:2407:G:H2'	2:AA:2408:U:C5	2.22	0.74
2:AA:567:A:C2	2:AA:568:U:C6	2.75	0.74
2:AA:974(A):C:H5'	2:AA:975:G:OP1	1.87	0.74
3:AC:144:THR:CA	3:AC:152:ILE:HG21	2.17	0.74
4:AD:120:ASP:CG	4:AD:121:ALA:H	1.88	0.74
4:AD:85:ASN:CB	4:AD:86:ARG:HE	1.99	0.74
6:AF:195:VAL:HB	6:AF:235:PHE:CA	2.12	0.74
2:AA:599:G:O2'	6:AF:30:LEU:HD21	1.86	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:30:LEU:O	6:AF:33:LYS:HB2	1.87	0.74
13:AN:21:VAL:HG12	13:AN:22:ILE:N	2.03	0.74
14:AO:126:SER:O	14:AO:129:ALA:HB3	1.88	0.74
14:AO:94:ARG:HE	14:AO:118:LEU:HB2	1.52	0.74
15:AP:36:ASN:ND2	15:AP:41:THR:H	1.86	0.74
2:AA:2334:G:OP2	16:AQ:13:ARG:HG3	1.87	0.74
17:AR:49:LEU:HD23	17:AR:50:GLU:CA	2.17	0.74
2:AA:138:G:C5'	19:AT:43:GLU:HG3	2.16	0.74
21:AV:12:GLN:O	21:AV:15:ASP:HB3	1.88	0.74
34:BA:1095:U:OP2	34:BA:1108:G:N1	2.16	0.74
34:BA:129(A):G:N2	34:BA:190(G):G:C4	2.55	0.74
34:BA:1344:C:O2'	34:BA:1349:A:H5'	1.87	0.74
34:BA:1376:U:H3	34:BA:1377:A:H62	1.33	0.74
34:BA:113:G:C1'	34:BA:354:G:H5''	2.17	0.74
34:BA:410:G:C1'	34:BA:432:A:H61	2.00	0.74
34:BA:697:U:C2'	34:BA:698:G:O5'	2.36	0.74
34:BA:739:C:H2'	34:BA:740:U:H5'	1.69	0.74
34:BA:751:U:H2'	34:BA:752:G:O4'	1.86	0.74
34:BA:928:G:O3'	34:BA:1533:C:N4	2.21	0.74
37:BE:211:ILE:HG22	37:BE:212:GLN:N	2.03	0.74
37:BE:67:THR:CB	37:BE:155:LEU:HD21	2.17	0.74
38:BF:33:LEU:HD21	49:BQ:54:PRO:HD3	1.68	0.74
40:BH:94:ALA:HB3	40:BH:117:ASP:O	1.86	0.74
34:BA:538:G:H3'	47:BO:115:LYS:HE2	1.69	0.74
47:BO:117:ARG:CZ	47:BO:117:ARG:HB3	2.18	0.74
47:BO:27:LEU:HD22	47:BO:62:SER:OG	1.88	0.74
49:BQ:27:CYS:SG	49:BQ:42:ILE:HB	2.27	0.74
41:BI:60:PHE:CE2	53:BU:78:LEU:HD11	2.23	0.74
54:BV:22:LEU:HD23	54:BV:25:LYS:HD3	1.69	0.74
55:BW:88:VAL:HG12	55:BW:92:LEU:CD1	2.18	0.74
2:AA:1508:A:H2'	2:AA:1509:C:H5	1.46	0.74
25:A1:8:ILE:O	25:A1:12:ARG:HG3	1.87	0.74
2:AA:535:C:H5'	25:A1:53:LYS:HE2	1.67	0.74
25:A1:55:ARG:HA	25:A1:58:ARG:HE	1.49	0.74
26:A2:57:GLN:NE2	26:A2:100:GLY:O	2.21	0.74
28:A4:64:GLY:O	28:A4:67:TYR:O	2.06	0.74
32:A8:30:ARG:HG2	32:A8:31:HIS:H	1.53	0.74
2:AA:1174:A:N6	2:AA:1177:A:C5	2.55	0.74
2:AA:1294:U:O2'	24:A0:26:LYS:HD2	1.88	0.74
2:AA:1347:G:O2'	2:AA:1348:G:H5'	1.86	0.74
2:AA:1534:G:N1	2:AA:1538:G:N3	2.34	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1707:G:H1	2:AA:1751:C:N4	1.86	0.74
2:AA:1861:G:H4'	3:AC:205:LYS:HZ1	1.51	0.74
2:AA:2028:U:H2'	2:AA:2029:G:N7	2.02	0.74
2:AA:2043:C:H2'	2:AA:2043:C:O2	1.88	0.74
2:AA:2074:U:H2'	2:AA:2074:U:O2	1.87	0.74
2:AA:2423:U:C6	2:AA:2425:A:C5	2.75	0.74
2:AA:2438:U:H4'	2:AA:2440:C:OP1	1.88	0.74
2:AA:272:G:H1	2:AA:365:C:H42	1.34	0.74
2:AA:482:A:C5	2:AA:506:G:C2	2.75	0.74
1:AB:25:A:H2'	1:AB:26:A:O4'	1.88	0.74
4:AD:114:GLU:OE2	4:AD:115:ILE:HG13	1.87	0.74
4:AD:183:ILE:CG2	4:AD:184:LEU:N	2.51	0.74
4:AD:93:ILE:HB	4:AD:103:ILE:HG21	1.69	0.74
2:AA:1106:G:O4'	9:AI:27:ASP:CG	2.26	0.74
9:AJ:77:VAL:HG22	9:AJ:102:ILE:CD1	2.18	0.74
12:AM:135:ILE:O	12:AM:139:LEU:HD22	1.88	0.74
12:AM:87:LEU:CB	12:AM:98:PHE:CZ	2.70	0.74
13:AN:91:LYS:HB3	13:AN:111:PHE:CE2	2.23	0.74
17:AR:13:ILE:HD11	17:AR:33:SER:OG	1.88	0.74
18:AS:20:VAL:HG11	18:AS:47:VAL:CG2	2.12	0.74
21:AV:68:ALA:O	21:AV:82:ASP:HB3	1.87	0.74
2:AA:95:G:O2'	22:AW:42:ASN:HB3	1.88	0.74
34:BA:1128:C:N4	34:BA:1143:G:N2	2.35	0.74
34:BA:965:A:OP1	34:BA:1198:G:H5''	1.87	0.74
34:BA:1360:A:N7	49:BQ:18:VAL:HG12	2.02	0.74
34:BA:225:C:H2'	34:BA:226:G:O5'	1.87	0.74
34:BA:582:U:C4	34:BA:583:A:N7	2.56	0.74
35:BB:6:U:C4	35:BB:7:U:C5	2.76	0.74
35:BC:71:G:N1	35:BC:72:C:C2	2.56	0.74
37:BE:222:ILE:CG1	37:BE:223:ILE:N	2.49	0.74
41:BI:40:VAL:HG23	41:BI:63:TYR:HE1	1.52	0.74
42:BJ:12:LEU:CD2	42:BJ:24:THR:HB	2.18	0.74
34:BA:826:C:H5'	43:BK:12:ARG:HE	1.53	0.74
43:BK:95:VAL:HG22	43:BK:133:LEU:CD2	2.18	0.74
43:BK:6:ILE:CG2	43:BK:7:ALA:H	2.01	0.74
44:BL:48:GLU:O	44:BL:51:ARG:HB2	1.87	0.74
45:BM:16:LEU:HD12	45:BM:70:ARG:HG2	1.69	0.74
45:BM:84:GLN:CA	45:BM:88:LEU:HD12	2.08	0.74
52:BT:11:VAL:O	52:BT:12:SER:HB2	1.86	0.74
35:BB:26:G:N2	35:BB:27:C:C1'	2.51	0.74
35:BB:22:G:C2'	35:BB:23:A:C8	2.67	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:41:ASN:HD21	6:AF:101:ASP:HA	1.51	0.74
25:A1:66:ASN:HA	25:A1:76:TYR:HH	1.53	0.74
25:A1:76:TYR:CD1	25:A1:76:TYR:N	2.56	0.74
30:A6:28:ARG:HG3	30:A6:30:ASN:HB3	1.70	0.74
30:A6:37:LEU:HD21	30:A6:51:ARG:CG	2.13	0.74
2:AA:1138:G:N2	2:AA:1139:G:C4	2.55	0.74
2:AA:112:U:C5	2:AA:113:G:C4	2.75	0.74
2:AA:1165:U:H2'	2:AA:1166:C:C6	2.23	0.74
2:AA:1327:C:H3'	2:AA:1328:G:H8	1.53	0.74
2:AA:1478:G:O2'	2:AA:1479:G:O4'	2.03	0.74
2:AA:1826:G:H2'	2:AA:1827:C:C5'	2.18	0.74
2:AA:2013:A:P	18:AS:96:ILE:HB	2.27	0.74
2:AA:2051:A:O2'	2:AA:2052:G:O5'	2.06	0.74
2:AA:2209:C:N3	2:AA:2215:G:N2	2.33	0.74
2:AA:2216:G:O2'	2:AA:2217:G:H5'	1.88	0.74
2:AA:220:G:H4'	2:AA:234:C:C4'	2.18	0.74
2:AA:2468:G:C2	2:AA:2481:G:C4	2.76	0.74
2:AA:746:A:OP1	2:AA:2612:C:N3	2.20	0.74
2:AA:264:C:C2'	2:AA:265:A:H5''	2.17	0.74
2:AA:2686:G:H2'	2:AA:2687:U:O4'	1.87	0.74
2:AA:2043:C:C4	2:AA:2777:G:N3	2.56	0.74
2:AA:2791:C:O2	2:AA:2805:G:N1	2.20	0.74
2:AA:451:C:N4	2:AA:453:C:H3'	2.03	0.74
2:AA:464:U:N3	2:AA:465:G:C5	2.56	0.74
2:AA:471:A:H2'	2:AA:472:A:H8	1.53	0.74
2:AA:479:A:O2'	2:AA:480:A:H3'	1.87	0.74
2:AA:870:A:H5'	2:AA:871:U:OP2	1.88	0.74
2:AA:895:U:O2	2:AA:896:A:C6	2.41	0.74
2:AA:911:A:H2'	15:AP:16:ARG:HE	1.53	0.74
2:AA:932:G:H21	2:AA:933:A:N6	1.85	0.74
1:AB:68:C:H3'	1:AB:69:G:H8	1.53	0.74
3:AC:26:ALA:O	3:AC:29:VAL:HG12	1.87	0.74
4:AD:166:LYS:HB2	4:AD:171:VAL:HG12	1.67	0.74
4:AD:174:ARG:HH11	4:AD:174:ARG:CG	2.00	0.74
4:AD:176:ALA:O	4:AD:178:GLY:N	2.21	0.74
4:AD:210:LYS:O	4:AD:213:LYS:N	2.20	0.74
4:AD:226:GLY:O	4:AD:227:VAL:HG12	1.88	0.74
6:AF:52:ALA:HA	6:AF:55:ARG:CZ	2.18	0.74
7:AG:151:ILE:HD13	7:AG:156:ARG:CZ	2.17	0.74
12:AM:45:VAL:HG12	12:AM:46:ILE:H	1.53	0.74
15:AP:85:ILE:CG2	15:AP:122:PHE:HB3	2.12	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:142:LYS:HG3	15:AP:143:VAL:H	1.51	0.74
17:AR:12:ASP:C	17:AR:13:ILE:HG12	2.06	0.74
2:AA:144:C:H5'	19:AT:36:GLU:CD	2.07	0.74
20:AU:16:LEU:O	20:AU:19:ARG:HB2	1.88	0.74
21:AV:100:THR:HG22	21:AV:137:ASP:CB	2.18	0.74
21:AV:154:LEU:HD13	21:AV:160:LEU:CD1	2.17	0.74
21:AV:166:LEU:HD13	21:AV:167:THR:N	2.03	0.74
21:AV:57:GLU:C	21:AV:59:GLY:N	2.39	0.74
34:BA:191:G:O2'	55:BW:102:GLY:CA	2.36	0.74
34:BA:204:U:H2'	34:BA:204:U:O2	1.86	0.74
34:BA:437:U:O2'	34:BA:438:G:H5'	1.87	0.74
34:BA:556:C:H2'	34:BA:557:G:O4'	1.88	0.74
34:BA:55:A:H2'	34:BA:56:U:H6	1.53	0.74
34:BA:735:C:H1'	53:BU:75:ILE:HD11	1.68	0.74
34:BA:777:A:H2'	34:BA:778:G:C8	2.20	0.74
35:BB:32:C:N4	35:BB:33:U:H3	1.83	0.74
38:BF:114:PRO:O	38:BF:117:ALA:HB3	1.87	0.74
39:BG:121:VAL:HG22	39:BG:126:ILE:HD11	1.68	0.74
41:BI:5:GLU:HB3	41:BI:62:TRP:HE1	1.53	0.74
42:BJ:54:THR:HG23	42:BJ:54:THR:O	1.88	0.74
43:BK:126:LYS:HD2	43:BK:127:LEU:H	1.50	0.74
43:BK:22:GLU:C	43:BK:63:LEU:HD11	2.07	0.74
44:BL:3:GLN:H	44:BL:3:GLN:NE2	1.86	0.74
49:BQ:43:CYS:CA	49:BQ:46:GLU:OE1	2.35	0.74
34:BA:1286:A:H5'	56:BX:25:LYS:HG2	1.70	0.74
35:BB:12:U:N3	35:BB:24:G:C2	2.47	0.74
9:AJ:4:ASP:O	9:AJ:8:GLU:HG3	1.88	0.74
26:A2:49:GLU:HB3	26:A2:53:LYS:HD3	1.69	0.74
26:A2:63:HIS:CA	26:A2:95:ILE:HG23	2.18	0.74
26:A2:62:GLU:HB2	26:A2:96:LEU:CD2	2.17	0.74
2:AA:1069:A:H4'	2:AA:1070:A:O5'	1.85	0.74
2:AA:1141:U:C2'	2:AA:1142:U:OP2	2.34	0.74
2:AA:991:C:C5'	2:AA:1186:G:OP2	2.34	0.74
2:AA:1317:A:H2'	2:AA:1318:C:C6	2.20	0.74
2:AA:1140:C:H4'	2:AA:142(A):A:C5	2.22	0.74
2:AA:145:G:H2'	2:AA:146:G:H8	1.52	0.74
2:AA:1469:A:N1	2:AA:1522:G:N2	2.35	0.74
2:AA:1530:G:OP1	2:AA:1539:G:N1	2.17	0.74
2:AA:1663:C:C2'	2:AA:1664:A:C8	2.70	0.74
2:AA:1670:C:C2'	2:AA:1671:U:H5'	2.17	0.74
2:AA:2043:C:N4	2:AA:2777:G:C4	2.56	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2045:C:O2	29:A5:22:HIS:CE1	2.41	0.74
2:AA:2095:C:O2	2:AA:2194:G:N1	2.20	0.74
2:AA:259:G:H2'	2:AA:260:G:C8	2.17	0.74
2:AA:2641:G:O6	2:AA:2773:C:N3	2.20	0.74
2:AA:2652:C:N3	2:AA:2668:G:N2	2.30	0.74
2:AA:273(E):U:O4	2:AA:363(A):A:N1	2.21	0.74
2:AA:2804:C:C5	2:AA:2805:G:C6	2.76	0.74
2:AA:2842:G:N2	2:AA:2875:C:N3	2.29	0.74
2:AA:246:C:O2'	2:AA:385:C:H4'	1.87	0.74
2:AA:465:G:H2'	2:AA:466:A:C8	2.23	0.74
2:AA:979:G:H3'	2:AA:980:A:C5'	2.18	0.74
1:AB:98:G:H5''	1:AB:99:A:OP1	1.88	0.74
2:AA:1566:A:C6	4:AD:212:HIS:CE1	2.76	0.74
8:AH:72:ALA:O	8:AH:75:VAL:HB	1.87	0.74
9:AJ:22:VAL:HG12	9:AJ:26:GLU:OE1	1.87	0.74
16:AQ:19:ASP:CB	16:AQ:22:GLN:NE2	2.42	0.74
17:AR:13:ILE:HG13	17:AR:33:SER:HB2	1.69	0.74
34:BA:1387:G:H2'	34:BA:1388:C:C6	2.22	0.74
34:BA:163:C:O2'	34:BA:164:U:C5'	2.36	0.74
34:BA:138:G:N2	34:BA:225:C:N3	2.31	0.74
34:BA:519:C:C2'	34:BA:520:A:H5'	2.18	0.74
34:BA:566:G:H4'	34:BA:567:G:OP1	1.85	0.74
34:BA:787:A:O2'	34:BA:788:U:H5'	1.87	0.74
37:BE:149:LEU:O	37:BE:151:GLY:N	2.20	0.74
37:BE:221:LEU:C	37:BE:221:LEU:HD13	2.09	0.74
38:BF:73:PRO:HG3	38:BF:105:GLU:OE2	1.88	0.74
38:BF:177:THR:HG23	38:BF:180:ALA:HB2	1.70	0.74
39:BG:20:TYR:O	39:BG:22:LYS:N	2.14	0.74
39:BG:31:CYS:O	39:BG:33:MET:N	2.20	0.74
40:BH:151:LEU:HD11	43:BK:77:GLU:HB3	1.69	0.74
42:BJ:66:VAL:O	42:BJ:70:LYS:HG3	1.87	0.74
34:BA:598:U:O2'	43:BK:94:TYR:HB3	1.88	0.74
45:BM:34:VAL:HG22	45:BM:74:ILE:HD11	1.69	0.74
48:BP:24:GLY:HA3	48:BP:66:LEU:HD22	1.67	0.74
2:AA:1508:A:H2'	2:AA:1509:C:C6	2.23	0.74
26:A2:12:TYR:CD2	26:A2:13:ARG:N	2.57	0.73
28:A4:62:ARG:O	28:A4:65:ASP:OD2	2.06	0.73
30:A6:16:ALA:HB3	30:A6:19:GLY:H	1.51	0.73
32:A8:37:SER:OG	32:A8:38:GLY:N	2.18	0.73
2:AA:142(A):A:OP2	2:AA:1143:A:C8	2.41	0.73
2:AA:1691:C:O2	2:AA:1692:U:O4'	2.06	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:233:A:C8	2:AA:234:C:C5	2.76	0.73
2:AA:373:U:H4'	2:AA:374:A:H8	1.49	0.73
2:AA:36:G:C2	2:AA:445:C:O2	2.40	0.73
2:AA:853:G:O2'	2:AA:854:G:O4'	2.04	0.73
2:AA:85:G:OP2	20:AU:65:VAL:HB	1.88	0.73
2:AA:919:G:C2'	2:AA:920:G:C8	2.67	0.73
2:AA:99:U:H3	20:AU:107:LYS:HD2	1.53	0.73
1:AB:100:G:C4	1:AB:101:A:C8	2.76	0.73
3:AC:76:ALA:CB	3:AC:86:ALA:HB1	2.18	0.73
4:AD:131:LEU:O	4:AD:134:ILE:HB	1.88	0.73
5:AE:211:GLN:HE22	5:AE:215:LYS:C	1.91	0.73
5:AE:210:THR:CA	5:AE:216:ARG:NH2	2.45	0.73
5:AE:44:TYR:OH	5:AE:308:VAL:HG22	1.87	0.73
7:AG:24:HIS:O	7:AG:25:MET:HG2	1.88	0.73
11:AL:66:PHE:O	11:AL:67:THR:HG23	1.88	0.73
12:AM:74:ARG:HD3	12:AM:74:ARG:N	2.03	0.73
13:AN:10:VAL:HG12	13:AN:12:ASP:H	1.52	0.73
15:AP:35:ASN:H	15:AP:76:GLY:N	1.85	0.73
18:AS:20:VAL:CG1	18:AS:47:VAL:HG21	2.11	0.73
20:AU:21:LYS:HG2	20:AU:22:GLN:H	1.52	0.73
20:AU:48:VAL:HG22	20:AU:98:VAL:CA	2.18	0.73
21:AV:19:ILE:CB	21:AV:36:ARG:HG2	2.17	0.73
34:BA:1028:C:H2'	34:BA:1029:C:H6	1.50	0.73
34:BA:1238:A:H62	34:BA:1301:U:H3	1.35	0.73
34:BA:1349:A:O2'	34:BA:1350:A:H5'	1.88	0.73
34:BA:1379:G:N7	42:BJ:2:ALA:N	2.35	0.73
34:BA:1405:G:H21	34:BA:1517:G:H22	1.33	0.73
34:BA:1452:C:O2	34:BA:1452:C:H2'	1.88	0.73
34:BA:1461:G:H2'	34:BA:1462:G:H8	1.53	0.73
34:BA:482:A:H2	34:BA:483:C:O4'	1.71	0.73
34:BA:551:U:H6	34:BA:551:U:O5'	1.69	0.73
34:BA:579:G:H5'	34:BA:728:A:O2'	1.88	0.73
34:BA:600:C:O2'	34:BA:601:C:H5'	1.87	0.73
34:BA:603:U:H2'	34:BA:604:G:H8	1.53	0.73
34:BA:607:A:C2'	34:BA:608:A:H5'	2.18	0.73
37:BE:115:LEU:HD22	37:BE:149:LEU:HB3	1.70	0.73
43:BK:48:TYR:HA	43:BK:61:VAL:HG22	1.69	0.73
43:BK:90:GLY:O	52:BT:34:LYS:HD3	1.88	0.73
48:BP:36:LYS:HB3	48:BP:59:TYR:OH	1.88	0.73
52:BT:75:ARG:NH1	52:BT:76:LEU:O	2.21	0.73
26:A2:48:GLY:C	26:A2:49:GLU:CD	2.47	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1613:G:OP1	31:A7:5:TYR:CG	2.41	0.73
2:AA:1000:A:H8	2:AA:1154:G:H21	1.36	0.73
2:AA:1022:G:O2'	2:AA:1023:U:OP2	2.06	0.73
2:AA:1044:G:O3'	2:AA:1045:A:H4'	1.88	0.73
2:AA:1173:G:N2	2:AA:1175:U:H5''	2.03	0.73
2:AA:1327:C:N4	2:AA:1647:G:N2	2.35	0.73
2:AA:1472:A:C8	2:AA:1473:G:N7	2.56	0.73
2:AA:1492:G:H21	2:AA:1493:C:H42	1.36	0.73
2:AA:1614:A:N3	2:AA:1614:A:H3'	2.02	0.73
2:AA:171:G:H2'	2:AA:172:C:C5	2.23	0.73
2:AA:1856:G:C6	2:AA:1857:G:N3	2.56	0.73
2:AA:1892:C:H2'	2:AA:1893:C:H6	1.51	0.73
2:AA:2044:C:O2'	2:AA:2045:C:H5'	1.87	0.73
2:AA:2072:G:C6	2:AA:2073:C:N4	2.56	0.73
2:AA:2210:G:O6	4:AD:148:GLY:HA3	1.88	0.73
2:AA:2215:G:H2'	2:AA:2216:G:H8	1.49	0.73
2:AA:2282:G:N2	2:AA:2427:C:O2	2.20	0.73
2:AA:245:G:C5'	14:AO:55:GLN:HA	2.16	0.73
2:AA:2484:G:H2'	2:AA:2485:G:C5'	2.18	0.73
2:AA:2484:G:N2	2:AA:2485:G:C1'	2.52	0.73
2:AA:2531:A:H2'	2:AA:2532:G:C5'	2.18	0.73
2:AA:2607:G:H2'	2:AA:2608:G:C5'	2.18	0.73
2:AA:284:U:C2	2:AA:357:A:N1	2.55	0.73
2:AA:273(B):C:N3	2:AA:363(D):G:C6	2.57	0.73
2:AA:414:C:H1'	2:AA:1864:U:H1'	1.70	0.73
2:AA:460:A:C8	2:AA:461:C:H5	2.06	0.73
2:AA:995:C:P	25:A1:54:LYS:HE2	2.28	0.73
1:AB:87:G:C8	1:AB:87:G:OP2	2.40	0.73
3:AC:127:LEU:HA	3:AC:130:ILE:HD13	1.70	0.73
3:AC:127:LEU:HD22	3:AC:130:ILE:HG21	1.69	0.73
3:AC:53:ARG:O	3:AC:55:ASP:N	2.22	0.73
4:AD:66:PHE:N	4:AD:67:LYS:NZ	2.36	0.73
7:AG:105:SER:C	7:AG:106:PHE:CD1	2.62	0.73
8:AH:93:TYR:CE1	8:AH:106:VAL:HG13	2.22	0.73
9:AI:83:LEU:HD13	9:AI:91:LEU:HD12	1.69	0.73
10:AK:6:LEU:CD1	10:AK:14:LYS:HZ3	2.01	0.73
12:AM:79:PHE:CD1	12:AM:79:PHE:N	2.55	0.73
13:AN:10:VAL:HG23	13:AN:17:ARG:O	1.88	0.73
13:AN:37:ASP:O	13:AN:62:VAL:HG23	1.88	0.73
14:AO:117:GLU:CD	14:AO:136:ALA:O	2.26	0.73
17:AR:23:HIS:HE1	17:AR:27:ALA:HB3	1.48	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:40:ASN:ND2	18:AS:41:LYS:N	2.35	0.73
20:AU:15:PRO:O	20:AU:18:GLU:N	2.21	0.73
21:AV:116:VAL:HA	21:AV:169:VAL:HG22	1.69	0.73
21:AV:54:ILE:HG21	21:AV:56:VAL:HG23	1.70	0.73
22:AW:20:LEU:HA	22:AW:23:LEU:HD12	1.70	0.73
34:BA:1077:G:N2	34:BA:1079:G:H3'	2.01	0.73
34:BA:1226:C:C6	48:BP:104:ARG:HA	2.22	0.73
34:BA:17:U:H2'	34:BA:18:C:C6	2.23	0.73
34:BA:319:G:O2'	34:BA:320:C:H5'	1.87	0.73
34:BA:582:U:C5'	50:BR:64:ARG:NH2	2.51	0.73
35:BC:50:U:O2'	35:BC:51:G:H5'	1.88	0.73
37:BE:9:GLU:HG2	37:BE:217:ARG:HH22	1.49	0.73
39:BG:72:GLU:HA	39:BG:72:GLU:OE2	1.88	0.73
34:BA:642:A:O2'	43:BK:31:PHE:CE1	2.39	0.73
43:BK:36:LEU:O	43:BK:39:LEU:CB	2.35	0.73
45:BM:16:LEU:HB3	45:BM:70:ARG:CG	2.18	0.73
34:BA:1226:C:C4	48:BP:104:ARG:HA	2.22	0.73
48:BP:88:ARG:HG3	48:BP:89:GLY:N	2.01	0.73
23:AX:3:ARG:HD3	23:AX:60:GLU:CB	2.18	0.73
37:BE:127:ILE:O	37:BE:129:GLU:N	2.20	0.73
26:A2:38:LEU:HD23	26:A2:38:LEU:H	1.53	0.73
27:A3:38:VAL:O	27:A3:40:GLN:N	2.20	0.73
28:A4:65:ASP:OD2	28:A4:66:SER:N	2.20	0.73
31:A7:17:GLY:HA2	31:A7:44:VAL:CG2	2.18	0.73
2:AA:1011:G:C6	2:AA:1151:G:C6	2.76	0.73
2:AA:1778:U:C2	2:AA:1784:A:H2	2.06	0.73
2:AA:1826:G:C6	2:AA:1827:C:C5	2.76	0.73
2:AA:1927:A:C6	2:AA:1928:A:N1	2.56	0.73
2:AA:1837:C:O2'	2:AA:1928:A:H1'	1.88	0.73
2:AA:1950:G:C6	2:AA:1951:U:H5	2.05	0.73
2:AA:197:A:H2'	2:AA:198:C:O4'	1.88	0.73
2:AA:1991:U:H2'	2:AA:1992:G:C5'	2.17	0.73
2:AA:2022:U:C4	29:A5:9:LYS:NZ	2.51	0.73
2:AA:310:A:H2'	2:AA:312:G:N7	2.03	0.73
2:AA:37:C:H5'	2:AA:451:C:O4'	1.87	0.73
2:AA:391:G:C5	2:AA:411:G:N2	2.55	0.73
2:AA:414:C:C4'	2:AA:1863:G:N2	2.51	0.73
2:AA:541:C:N3	2:AA:552:G:N2	2.36	0.73
2:AA:729:G:C6	4:AD:207:ALA:HA	2.23	0.73
2:AA:919:G:H2'	2:AA:920:G:N7	2.02	0.73
2:AA:946:G:H2'	2:AA:947:G:C8	2.23	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:978:G:H2'	2:AA:979:G:C8	2.23	0.73
1:AB:16:G:O2'	1:AB:17:C:C5'	2.36	0.73
6:AF:37:ALA:HB1	6:AF:107:ARG:CZ	2.18	0.73
6:AF:168:ARG:CZ	6:AF:209:GLY:CA	2.66	0.73
7:AG:136:ARG:HD3	7:AG:156:ARG:C	2.08	0.73
7:AG:21:VAL:O	7:AG:75:LEU:O	2.06	0.73
8:AH:8:ILE:CD1	8:AH:72:ALA:HB2	2.17	0.73
9:AI:115:LYS:HD3	9:AI:127:LEU:HD22	1.70	0.73
10:AK:7:LYS:HG2	10:AK:12:LYS:HG2	1.68	0.73
12:AM:135:ILE:HA	12:AM:138:THR:OG1	1.88	0.73
12:AM:19:MET:HB3	12:AM:46:ILE:CG1	2.18	0.73
12:AM:74:ARG:HB3	12:AM:75:PRO:HD2	1.70	0.73
20:AU:5:ASP:O	20:AU:9:LYS:HD3	1.89	0.73
21:AV:19:ILE:HD13	21:AV:36:ARG:HD3	1.70	0.73
21:AV:21:ALA:CB	21:AV:81:VAL:HB	2.18	0.73
23:AX:53:LEU:O	23:AX:54:VAL:HG13	1.88	0.73
34:BA:1007:C:O2'	34:BA:1008:C:H5'	1.87	0.73
34:BA:950:U:O4	34:BA:1231:G:O6	2.06	0.73
34:BA:1389:C:H2'	34:BA:1390:U:O4'	1.88	0.73
34:BA:405:U:H5''	34:BA:406:G:O4'	1.87	0.73
34:BA:51:A:O2'	34:BA:52:G:OP2	2.06	0.73
34:BA:724:G:O2'	34:BA:725:G:H5'	1.86	0.73
34:BA:770:C:H4'	34:BA:900:A:H2	1.52	0.73
34:BA:907:A:H4'	34:BA:907:A:OP1	1.86	0.73
35:BB:34:G:C6	36:B1:66:G:OP2	2.40	0.73
35:BC:19:G:H3'	35:BC:20:G:N7	2.04	0.73
37:BE:178:ARG:CD	37:BE:184:VAL:HG21	2.17	0.73
38:BF:116:VAL:HG21	38:BF:141:VAL:CG2	2.18	0.73
40:BH:7:GLU:HB3	40:BH:112:LEU:HD11	1.69	0.73
42:BJ:87:VAL:HG13	42:BJ:154:TYR:HB2	1.70	0.73
43:BK:9:MET:HG3	43:BK:26:VAL:HG21	1.70	0.73
35:BB:37:G:N7	35:BB:39:U:O4	2.21	0.73
10:AK:133:LEU:HD11	10:AK:139:ALA:HB3	1.70	0.73
37:BE:133:LYS:N	37:BE:133:LYS:HE2	2.03	0.73
2:AA:2246:G:H2'	2:AA:2247:A:H8	1.51	0.73
50:BR:26:GLU:CD	50:BR:26:GLU:N	2.39	0.73
24:A0:105:ARG:O	24:A0:107:ASP:N	2.19	0.73
26:A2:54:TYR:O	26:A2:55:THR:C	2.26	0.73
2:AA:126:A:OP1	31:A7:44:VAL:HG21	1.88	0.73
2:AA:1066:U:O2	2:AA:1068:G:H3'	1.89	0.73
2:AA:1073:A:N7	2:AA:1074:G:C5	2.56	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1304:C:C2'	2:AA:1305:C:O5'	2.37	0.73
2:AA:1301:A:C5'	2:AA:1607:C:H41	2.02	0.73
2:AA:15:G:H2'	2:AA:16:G:C5'	2.18	0.73
2:AA:176:G:H21	2:AA:177:G:H1'	1.54	0.73
2:AA:1791:A:O5'	2:AA:1791:A:H8	1.72	0.73
2:AA:2209:C:O2	2:AA:2210:G:H2'	1.88	0.73
2:AA:2371:G:HO2'	30:A6:47:HIS:HE2	1.34	0.73
2:AA:2386:C:H2'	2:AA:2387:U:C6	2.22	0.73
2:AA:399:G:C2'	2:AA:400:G:H5'	2.18	0.73
2:AA:563:G:O5'	2:AA:564:C:OP2	2.03	0.73
2:AA:92:G:O2'	2:AA:93:C:H5'	1.89	0.73
2:AA:946:G:H2'	2:AA:947:G:O4'	1.88	0.73
2:AA:995:C:O2	2:AA:995:C:H2'	1.86	0.73
1:AB:13:A:O2'	1:AB:15:A:H5''	1.88	0.73
3:AC:128:GLY:HA2	3:AC:137:LEU:HD21	1.70	0.73
4:AD:122:ASP:HB2	4:AD:124:LYS:HD3	1.70	0.73
5:AE:223:LYS:O	5:AE:227:ALA:N	2.21	0.73
5:AE:221:LYS:HZ3	5:AE:233:ARG:HG2	1.51	0.73
5:AE:308:VAL:HG12	5:AE:310:PHE:CE1	2.23	0.73
9:AJ:13:LEU:HB3	9:AJ:17:GLU:CB	2.18	0.73
10:AK:7:LYS:HE2	10:AK:12:LYS:NZ	2.01	0.73
12:AM:18:ILE:O	12:AM:18:ILE:HG23	1.89	0.73
2:AA:1022:G:O6	12:AM:47:THR:HG21	1.88	0.73
13:AN:105:GLU:HB2	13:AN:106:LEU:HD23	1.68	0.73
14:AO:120:LEU:HD12	14:AO:121:ILE:N	2.02	0.73
16:AQ:26:LEU:HD13	16:AQ:101:VAL:CG2	2.17	0.73
19:AT:52:VAL:HG22	19:AT:66:VAL:HG22	1.69	0.73
20:AU:103:LEU:HD11	20:AU:113:GLU:HB3	1.69	0.73
23:AX:38:GLU:HB2	23:AX:40:THR:HG22	1.71	0.73
23:AX:5:LYS:HE2	23:AX:34:GLU:OE2	1.88	0.73
34:BA:1230:C:O2'	34:BA:1231:G:H5'	1.89	0.73
34:BA:1494:G:C2	34:BA:1495:U:H5	2.00	0.73
35:BB:67:A:N1	35:BB:68:U:C4	2.56	0.73
43:BK:6:ILE:CD1	43:BK:10:LEU:HD11	2.17	0.73
45:BM:24:VAL:HG13	45:BM:34:VAL:HG11	1.68	0.73
47:BO:60:LEU:HD23	47:BO:64:TYR:HB2	1.70	0.73
48:BP:20:THR:HA	48:BP:25:ILE:HG22	1.69	0.73
52:BT:10:VAL:HG12	52:BT:53:LEU:HA	1.69	0.73
53:BU:63:GLN:HA	53:BU:66:LEU:HD11	1.70	0.73
55:BW:50:GLU:H	55:BW:99:LEU:CG	2.00	0.73
10:AK:83:ALA:HA	10:AK:90:PHE:CD1	2.23	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:B1:41:U:H2'	36:B1:42:G:H8	1.53	0.73
2:AA:2246:G:H2'	2:AA:2247:A:C8	2.23	0.73
24:A0:55:ALA:HB1	24:A0:79:LEU:HD21	1.71	0.73
25:A1:55:ARG:HA	25:A1:58:ARG:CG	2.19	0.73
25:A1:92:ARG:C	25:A1:95:LEU:HG	2.08	0.73
26:A2:65:ARG:O	26:A2:93:ILE:HG13	1.87	0.73
2:AA:396:G:OP1	28:A4:10:VAL:HG13	1.88	0.73
2:AA:1184:G:O2'	2:AA:1185:C:C5'	2.36	0.73
2:AA:1227:A:H2'	2:AA:1228:G:H5''	1.70	0.73
2:AA:1420:U:O2'	2:AA:1421:G:C8	2.41	0.73
2:AA:1666:G:O2'	2:AA:1667:G:H5'	1.89	0.73
2:AA:1729:A:H2'	2:AA:1730:U:H5'	1.71	0.73
2:AA:1822:G:H2'	2:AA:1823:G:C8	2.22	0.73
2:AA:1826:G:C6	2:AA:1827:C:H5	2.06	0.73
2:AA:182:A:OP2	2:AA:182:A:C8	2.41	0.73
2:AA:185:U:H5'	2:AA:217:G:N2	2.03	0.73
2:AA:185:U:H2'	2:AA:186:G:H8	1.53	0.73
2:AA:1862:G:N1	2:AA:1880:C:N4	2.34	0.73
2:AA:1887:C:O2'	2:AA:1888:G:H5'	1.89	0.73
2:AA:2009:G:C4'	18:AS:40:ASN:HD21	2.01	0.73
2:AA:2245:U:O2	2:AA:2435:A:H3'	1.89	0.73
2:AA:2695:C:H2'	2:AA:2696:U:C6	2.22	0.73
2:AA:25:U:C2'	2:AA:26:G:H8	2.01	0.73
2:AA:1664:A:N3	2:AA:2726:U:N3	2.35	0.73
2:AA:294:A:H8	2:AA:294:A:O5'	1.71	0.73
2:AA:479:A:N6	2:AA:481:G:N3	2.36	0.73
2:AA:571:A:N3	2:AA:573:G:N7	2.36	0.73
2:AA:608:A:H2'	2:AA:609:A:H5'	1.71	0.73
2:AA:81:G:C2'	2:AA:82:G:H5'	2.19	0.73
2:AA:84:A:OP2	20:AU:111:ARG:NH1	2.19	0.73
1:AB:83:G:N1	1:AB:84:C:C4	2.57	0.73
6:AF:149:LYS:O	6:AF:152:GLU:HB2	1.88	0.73
6:AF:242:GLU:HA	6:AF:245:GLU:OE1	1.88	0.73
9:AI:24:LYS:O	9:AI:27:ASP:HB2	1.87	0.73
10:AK:5:PHE:HD2	10:AK:5:PHE:H	1.36	0.73
14:AO:52:LYS:HE2	14:AO:53:ARG:CZ	2.18	0.73
15:AP:47:GLU:N	15:AP:47:GLU:OE1	2.22	0.73
20:AU:48:VAL:O	20:AU:60:GLY:O	2.06	0.73
21:AV:41:ARG:H	21:AV:41:ARG:NE	1.86	0.73
21:AV:53:ASP:CG	21:AV:54:ILE:H	1.91	0.73
22:AW:8:ILE:O	22:AW:11:MET:HB2	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AX:37:LEU:HB3	23:AX:43:ILE:HG21	1.70	0.73
23:AX:5:LYS:CA	23:AX:36:VAL:HG12	2.18	0.73
34:BA:1005:A:H2'	34:BA:1006:C:O4'	1.87	0.73
34:BA:1371:G:O2'	34:BA:1372:U:H5'	1.89	0.73
34:BA:174:C:C4	34:BA:175:C:N4	2.56	0.73
34:BA:175:C:H2'	34:BA:176:C:H6	1.52	0.73
34:BA:80:G:N1	34:BA:89:C:O2	2.20	0.73
34:BA:939:G:H5''	42:BJ:102:ARG:HH12	1.54	0.73
34:BA:9:G:C8	40:BH:126:ARG:NH1	2.57	0.73
37:BE:74:LYS:HE2	37:BE:76:GLN:CB	2.18	0.73
40:BH:109:ILE:CG2	40:BH:110:LEU:N	2.50	0.73
34:BA:1368:G:OP2	44:BL:112:LYS:HG2	1.88	0.73
45:BM:38:ILE:HG13	45:BM:71:LEU:HB3	1.69	0.73
46:BN:95:ILE:CA	46:BN:98:LEU:HD12	2.15	0.73
47:BO:35:GLY:O	47:BO:82:VAL:CA	2.35	0.73
34:BA:1329:A:P	48:BP:28:ALA:HB3	2.29	0.73
34:BA:1203:C:OP1	49:BQ:2:ALA:CB	2.36	0.73
52:BT:78:GLU:OE2	52:BT:81:ARG:HB2	1.89	0.73
53:BU:74:ARG:HG2	53:BU:74:ARG:HH11	1.53	0.73
55:BW:30:LYS:NZ	55:BW:30:LYS:CB	2.51	0.73
10:AK:116:GLU:HB2	10:AK:130:PRO:HG2	1.68	0.73
28:A4:59:PHE:HA	28:A4:62:ARG:NE	2.04	0.73
29:A5:57:VAL:HG12	29:A5:58:LEU:N	2.04	0.73
30:A6:34:LYS:HA	30:A6:53:LYS:NZ	2.04	0.73
30:A6:7:ARG:O	30:A6:9:ILE:N	2.22	0.73
2:AA:1162:G:H5''	26:A2:23:GLU:O	1.88	0.73
2:AA:1233:C:H2'	2:AA:1234:U:O5'	1.89	0.73
2:AA:1529:A:C8	2:AA:1542:G:O6	2.42	0.73
2:AA:1664:A:C2	2:AA:1665:A:N7	2.55	0.73
2:AA:1718:G:C6	2:AA:1741:C:N4	2.57	0.73
2:AA:1802:A:OP1	2:AA:1814:G:N2	2.17	0.73
2:AA:1918:A:H3'	2:AA:1918:A:P	2.28	0.73
2:AA:1981:A:H3'	2:AA:1982:C:H5'	1.69	0.73
2:AA:2199:A:C4	2:AA:2225:A:C2	2.76	0.73
2:AA:2402:C:H5''	2:AA:2403:C:OP1	1.88	0.73
2:AA:2526:G:C5	2:AA:2527:C:C5	2.76	0.73
2:AA:265:A:N6	2:AA:428:A:C5	2.57	0.73
2:AA:2742:C:OP1	33:A9:35:ARG:HD3	1.88	0.73
2:AA:605:C:H3'	6:AF:105:LYS:HZ3	1.51	0.73
1:AB:56:G:H4'	1:AB:57:A:H5''	1.71	0.73
3:AC:190:ARG:HA	3:AC:193:ILE:CD1	2.19	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:267:ARG:HG3	5:AE:297:LYS:HB2	1.71	0.73
6:AF:4:THR:O	6:AF:139:VAL:CB	2.37	0.73
2:AA:2305:A:C2	7:AG:72:LYS:HE2	2.24	0.73
9:AJ:78:ARG:NH2	11:AL:59:THR:HG21	2.03	0.73
12:AM:19:MET:HE1	12:AM:22:VAL:HG11	1.69	0.73
15:AP:65:ARG:NH2	15:AP:87:LYS:N	2.35	0.73
16:AQ:38:LYS:NZ	16:AQ:110:THR:HG21	2.03	0.73
16:AQ:47:LEU:HD12	16:AQ:58:LEU:CD2	2.18	0.73
19:AT:32:ALA:HB1	19:AT:37:VAL:HG23	1.71	0.73
21:AV:12:GLN:O	21:AV:15:ASP:O	2.07	0.73
21:AV:149:ALA:O	21:AV:152:ILE:CG1	2.35	0.73
34:BA:1090:U:O2'	34:BA:1091:U:C5'	2.37	0.73
34:BA:791:G:H22	34:BA:1498:U:P	2.12	0.73
34:BA:246:A:N6	34:BA:281:G:H21	1.86	0.73
34:BA:576:G:N7	34:BA:881:G:C1'	2.50	0.73
34:BA:797:C:O2'	34:BA:798:G:H5'	1.88	0.73
35:BB:65:G:H2'	35:BB:66:A:H8	1.52	0.73
38:BF:156:ARG:N	38:BF:163:ALA:HB1	2.03	0.73
38:BF:178:LEU:O	38:BF:179:ARG:CB	2.37	0.73
34:BA:673:G:H5''	41:BI:87:ARG:NE	2.04	0.73
43:BK:126:LYS:HZ3	43:BK:127:LEU:CG	2.01	0.73
43:BK:83:ILE:CB	43:BK:137:VAL:HG22	2.18	0.73
48:BP:81:LEU:HD22	48:BP:82:MET:N	2.04	0.73
50:BR:62:GLN:NE2	50:BR:65:ARG:NH2	2.36	0.73
52:BT:66:SER:O	52:BT:70:ARG:NH1	2.22	0.73
8:AH:168:VAL:O	8:AH:169:ARG:CZ	2.37	0.73
2:AA:445:C:H3'	25:A1:3:ARG:NH2	2.03	0.73
28:A4:41:PRO:HB3	28:A4:59:PHE:HE1	1.52	0.73
29:A5:18:MET:SD	29:A5:18:MET:N	2.59	0.73
30:A6:21:TYR:OH	30:A6:43:VAL:HG23	1.89	0.73
2:AA:83:G:O6	2:AA:102:G:N3	2.21	0.73
2:AA:1857:G:H1	2:AA:1884:A:H61	1.36	0.73
2:AA:1882:C:C3'	2:AA:1883:G:H5'	2.17	0.73
2:AA:530:G:H1	2:AA:2021:C:C4'	2.00	0.73
2:AA:2059:A:N1	2:AA:2503:A:C5	2.57	0.73
2:AA:195:A:H4'	2:AA:251:A:O4'	1.88	0.73
2:AA:252:G:O2'	2:AA:253:C:H5'	1.87	0.73
2:AA:2638:G:H21	2:AA:2778:A:H62	1.36	0.73
2:AA:2849:U:O2'	2:AA:2850:A:OP2	2.05	0.73
2:AA:7:G:O6	2:AA:2896:C:N3	2.21	0.73
2:AA:315:G:H8	2:AA:315:G:O5'	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:337:C:O3'	2:AA:338:G:H3'	1.88	0.73
2:AA:500:G:C2'	2:AA:501:A:H5''	2.19	0.73
2:AA:566:U:H3'	2:AA:567:A:C8	2.23	0.73
2:AA:711:G:H1	2:AA:720:C:H42	0.75	0.73
2:AA:725:G:N1	2:AA:726:G:N2	2.36	0.73
2:AA:71:A:H4'	2:AA:72:U:C3'	2.18	0.73
2:AA:741:G:H2'	2:AA:742:G:C8	2.23	0.73
2:AA:840:C:H5'	2:AA:1192:G:H1'	1.69	0.73
2:AA:988:A:OP2	23:AX:11:SER:HB3	1.87	0.73
3:AC:140:PRO:O	3:AC:142:ALA:N	2.20	0.73
4:AD:135:PRO:CG	4:AD:138:THR:HG21	2.17	0.73
6:AF:168:ARG:NH2	6:AF:209:GLY:HA2	2.03	0.73
6:AF:83:ALA:C	6:AF:84:VAL:HG22	2.09	0.73
13:AN:121:VAL:C	13:AN:122:ILE:HD12	2.09	0.73
13:AN:49:GLY:HA3	13:AN:53:LYS:HE2	1.70	0.73
14:AO:79:ASP:CG	14:AO:80:ASP:H	1.91	0.73
20:AU:81:LYS:HZ2	20:AU:84:GLY:H	1.37	0.73
34:BA:1157:A:C1'	34:BA:1181:G:H21	2.02	0.73
34:BA:1376:U:H5''	42:BJ:94:ARG:NH2	2.04	0.73
34:BA:22:G:H2'	34:BA:23:C:N1	2.04	0.73
34:BA:3(A):G:H8	34:BA:3(A):G:O5'	1.71	0.73
34:BA:511:C:C6	34:BA:512:U:H5	2.07	0.73
34:BA:640:A:H2'	34:BA:641:U:C5'	2.18	0.73
34:BA:757:U:H5'	34:BA:878:G:H21	1.53	0.73
34:BA:932:C:H2'	34:BA:932:C:O2	1.89	0.73
35:BB:51:G:H2'	35:BB:52:U:C6	2.23	0.73
35:BC:58:A:H2'	35:BC:61:C:H5	1.52	0.73
38:BF:12:LEU:HD22	38:BF:17:ASP:N	2.03	0.73
39:BG:109:GLY:O	39:BG:110:PHE:C	2.27	0.73
39:BG:12:CYS:HB3	39:BG:33:MET:CE	2.19	0.73
39:BG:98:GLU:O	39:BG:103:ASN:ND2	2.22	0.73
40:BH:17:ALA:HA	40:BH:26:PHE:HB3	1.70	0.73
41:BI:9:VAL:HG13	41:BI:60:PHE:HA	1.69	0.73
41:BI:76:ALA:HB1	41:BI:80:ARG:CZ	2.18	0.73
42:BJ:42:ILE:HG22	42:BJ:120:ILE:HD11	1.71	0.73
48:BP:23:TYR:CD2	48:BP:70:LEU:HD13	2.23	0.73
50:BR:43:LEU:HD11	50:BR:53:HIS:HA	1.69	0.73
52:BT:65:ILE:HG13	52:BT:65:ILE:O	1.87	0.73
35:BB:37:G:C5	35:BB:38:A:N7	2.56	0.73
23:AX:3:ARG:HD3	23:AX:60:GLU:HB3	1.70	0.73
2:AA:531:C:N3	25:A1:28:ARG:NE	2.36	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A1:44:THR:O	25:A1:48:ARG:HG3	1.88	0.73
26:A2:69:ILE:HA	26:A2:90:PHE:O	1.87	0.73
2:AA:2056:G:C2	29:A5:4:HIS:O	2.42	0.73
32:A8:26:LYS:HG3	32:A8:45:GLY:N	2.04	0.73
32:A8:4:MET:CB	32:A8:7:HIS:HE1	1.96	0.73
2:AA:1355:G:H22	2:AA:1377:G:C1'	2.00	0.73
2:AA:1799:G:N1	4:AD:153:LEU:HD21	2.03	0.73
2:AA:1853:A:N6	2:AA:1889:A:C8	2.56	0.73
2:AA:2013:A:O2'	2:AA:2014:A:H5'	1.88	0.73
2:AA:2514:U:H2'	2:AA:2515:C:H6	1.53	0.73
2:AA:270(B):A:HO2'	2:AA:270(C):C:H6	0.75	0.73
2:AA:2773:C:H2'	2:AA:2774:C:H6	1.53	0.73
2:AA:278:A:N1	2:AA:362:U:O4	2.22	0.73
2:AA:285:C:N4	2:AA:354:G:H22	1.87	0.73
2:AA:2856:C:N4	2:AA:2862:G:N1	2.36	0.73
2:AA:412:A:N6	2:AA:2410:G:H22	1.85	0.73
2:AA:440:G:H5''	20:AU:2:LYS:HB3	1.69	0.73
2:AA:541:C:C2	2:AA:542:C:C5	2.76	0.73
2:AA:996:A:C5'	25:A1:93:LYS:HG3	2.17	0.73
5:AE:220:GLN:OE1	5:AE:223:LYS:CE	2.37	0.73
5:AE:43:GLY:O	5:AE:309:PRO:CD	2.36	0.73
6:AF:153:VAL:HG12	6:AF:157:LEU:HD21	1.71	0.73
7:AG:105:SER:OG	7:AG:131:THR:HG22	1.89	0.73
9:AI:78:ARG:HG2	9:AI:88:ALA:HB1	1.69	0.73
12:AM:84:ARG:HA	12:AM:98:PHE:HE2	1.54	0.73
13:AN:11:ALA:CA	13:AN:99:PHE:CB	2.67	0.73
15:AP:41:THR:O	15:AP:125:TRP:HZ3	1.72	0.73
13:AN:99:PHE:CD2	17:AR:24:LYS:HE2	2.24	0.73
21:AV:123:VAL:HG12	21:AV:161:ALA:N	2.03	0.73
21:AV:19:ILE:HD11	21:AV:79:ILE:CD1	2.19	0.73
22:AW:43:PRO:C	22:AW:45:ARG:H	1.92	0.73
36:B1:46:A:H5''	36:B1:47:U:C5	2.24	0.73
34:BA:1239:A:H62	34:BA:1299:A:N6	1.86	0.73
34:BA:1406:U:O2	34:BA:1406:U:H2'	1.87	0.73
34:BA:245:C:N3	34:BA:284:G:N1	2.37	0.73
34:BA:499:A:O2'	34:BA:500:G:C8	2.42	0.73
34:BA:20:U:O4'	34:BA:572:A:C2	2.42	0.73
34:BA:894:G:H2'	34:BA:895:G:C8	2.23	0.73
34:BA:914:A:H2'	34:BA:915:A:C8	2.24	0.73
35:BB:34:G:N2	36:B1:66:G:C5	2.56	0.73
35:BB:6:U:N3	35:BB:7:U:C5	2.56	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:75:LYS:HA	37:BE:78:GLN:HB2	1.71	0.73
38:BF:17:ASP:HB3	38:BF:18:TRP:HE3	1.53	0.73
40:BH:139:LEU:O	40:BH:142:LEU:HD12	1.89	0.73
34:BA:922:G:H5''	40:BH:20:GLN:HE21	1.53	0.73
42:BJ:111:ARG:HD2	42:BJ:123:GLU:OE2	1.89	0.73
44:BL:11:LYS:CD	44:BL:108:VAL:HG11	2.19	0.73
49:BQ:39:LEU:HD13	49:BQ:47:LEU:HD12	1.70	0.73
34:BA:1234:C:HO2'	56:BX:14:TRP:HZ2	1.35	0.73
10:AK:77:VAL:CG2	10:AK:141:LEU:HD11	2.17	0.73
25:A1:7:GLY:C	25:A1:8:ILE:HD12	2.09	0.73
26:A2:87:ARG:O	26:A2:88:GLN:O	2.06	0.73
26:A2:95:ILE:HD12	26:A2:95:ILE:N	2.04	0.73
2:AA:1007:C:H5''	2:AA:1008:C:OP2	1.89	0.73
2:AA:1388:G:N2	2:AA:1389:G:H1'	2.04	0.73
2:AA:146:G:H2'	2:AA:147:U:O4'	1.88	0.73
2:AA:1527:G:H1	2:AA:1544:C:H42	0.77	0.73
2:AA:1917:U:C6	2:AA:1917:U:C3'	2.68	0.73
2:AA:1904:G:O2'	2:AA:1927:A:N6	2.22	0.73
2:AA:2055:C:OP1	2:AA:2056:G:H4'	1.88	0.73
2:AA:2183:C:H2'	2:AA:2184:G:H8	1.53	0.73
2:AA:2330:G:N2	2:AA:2385:C:N4	2.35	0.73
2:AA:2730:C:H2'	2:AA:2731:G:H8	1.54	0.73
2:AA:2747:G:N2	2:AA:2754:U:H3	1.86	0.73
2:AA:2878:U:OP2	2:AA:2878:U:C6	2.41	0.73
2:AA:295:G:OP1	2:AA:338:G:N1	2.22	0.73
2:AA:475:U:O2'	2:AA:476:G:H5'	1.87	0.73
2:AA:13:A:C2	2:AA:526:A:N7	2.57	0.73
2:AA:586:A:H5'	6:AF:90:HIS:NE2	2.04	0.73
2:AA:653:A:H3'	2:AA:654:A:O3'	1.89	0.73
2:AA:71:A:C2	2:AA:73:A:C8	2.77	0.73
2:AA:916:G:O5'	2:AA:916:G:H8	1.70	0.73
1:AB:60:C:H2'	1:AB:61:G:C8	2.23	0.73
1:AB:71:C:O2	1:AB:72:G:C1'	2.36	0.73
4:AD:60:GLN:N	4:AD:62:ARG:HH11	1.86	0.73
6:AF:162:VAL:HG12	6:AF:164:ALA:N	2.03	0.73
8:AH:49:ILE:HD12	8:AH:49:ILE:H	1.53	0.73
9:AJ:71:ILE:HA	11:AL:61:TYR:CG	2.24	0.73
12:AM:14:ALA:N	12:AM:40:ASN:ND2	2.36	0.73
12:AM:88:PRO:HD2	12:AM:94:GLY:CA	2.17	0.73
13:AN:43:VAL:CG2	13:AN:56:GLN:HB2	2.17	0.73
14:AO:71:GLU:HG3	14:AO:72:ASN:H	1.52	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AU:71:VAL:HG23	20:AU:93:THR:HG23	1.70	0.73
34:BA:197:A:O2'	34:BA:198:G:O4'	2.06	0.73
34:BA:266:G:H4'	34:BA:267:C:C5	2.23	0.73
34:BA:582:U:H1'	52:BT:105:ALA:C	2.10	0.73
34:BA:772:U:H2'	34:BA:773:G:H8	1.51	0.73
35:BB:34:G:C2'	35:BB:35:A:C5'	2.54	0.73
38:BF:126:ARG:HB2	38:BF:128:PHE:CZ	2.24	0.73
39:BG:148:VAL:HB	39:BG:181:MET:CE	2.15	0.73
41:BI:69:GLU:O	41:BI:72:VAL:CG2	2.36	0.73
43:BK:14:ARG:CB	43:BK:14:ARG:HH11	2.01	0.73
43:BK:45:ILE:CD1	43:BK:48:TYR:HB3	2.19	0.73
50:BR:70:LEU:HG	50:BR:78:TYR:CD1	2.24	0.73
54:BV:62:ILE:CD1	54:BV:66:MET:HG3	2.18	0.73
24:A0:52:ILE:HG22	24:A0:53:HIS:N	2.03	0.73
26:A2:19:VAL:HG12	26:A2:21:ARG:NH2	2.02	0.73
27:A3:58:THR:O	27:A3:60:PHE:N	2.19	0.73
29:A5:45:ILE:HD12	29:A5:45:ILE:N	2.02	0.73
30:A6:19:GLY:O	30:A6:42:PRO:HB2	1.89	0.73
31:A7:9:ASN:O	31:A7:10:ARG:C	2.25	0.73
33:A9:19:ARG:HD2	33:A9:24:LEU:HD12	1.69	0.73
2:AA:1020:A:H1'	12:AM:49:ARG:NH2	2.03	0.73
2:AA:1219:G:O6	2:AA:1230:C:N3	2.22	0.73
2:AA:1420:U:O2'	2:AA:1421:G:H8	1.72	0.73
2:AA:1691:C:H2'	2:AA:1691:C:O2	1.87	0.73
2:AA:1790:C:O2	2:AA:1791:A:N7	2.21	0.73
2:AA:1872:A:H2'	2:AA:1878:G:H5'	1.70	0.73
2:AA:1913:A:N7	2:AA:1918:A:N6	2.37	0.73
2:AA:2014:A:C5	2:AA:2015:A:N1	2.57	0.73
2:AA:2209:C:O2'	2:AA:2210:G:C8	2.37	0.73
2:AA:2355:C:H42	2:AA:2362:G:H1	0.77	0.73
2:AA:2380:C:C2'	2:AA:2381:C:H5'	2.19	0.73
2:AA:2739:U:C3'	2:AA:2739:U:C6	2.66	0.73
2:AA:284:U:C4	2:AA:357:A:N6	2.54	0.73
2:AA:292:C:O2	2:AA:348:G:N1	2.17	0.73
2:AA:575:A:O2'	2:AA:576:U:H5'	1.89	0.73
2:AA:58:G:N2	2:AA:69:C:N3	2.36	0.73
2:AA:771:G:H2'	2:AA:772:C:C5	2.23	0.73
2:AA:771:G:C6	2:AA:772:C:N4	2.57	0.73
2:AA:929:G:H1'	23:AX:43:ILE:CD1	2.19	0.73
5:AE:107:GLU:HB3	5:AE:110:ARG:CD	2.19	0.73
2:AA:1655:A:C4'	5:AE:211:GLN:HA	2.19	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:106:PHE:C	7:AG:130:VAL:HG23	2.08	0.73
7:AG:76:ARG:O	7:AG:80:ALA:HB3	1.89	0.73
2:AA:1084:A:O3'	9:AI:34:ALA:HB1	1.89	0.73
9:AJ:106:VAL:HG11	9:AJ:114:ILE:HD11	1.71	0.73
10:AK:29:PHE:HD2	10:AK:30:LEU:CG	2.02	0.73
10:AK:3:VAL:O	10:AK:18:ILE:CA	2.31	0.73
12:AM:23:ALA:O	12:AM:26:VAL:N	2.22	0.73
15:AP:82:LYS:HZ2	15:AP:84:ARG:CZ	2.02	0.73
18:AS:36:LEU:HD13	18:AS:48:ALA:N	2.04	0.73
2:AA:1598:C:OP1	19:AT:34:LYS:HG3	1.89	0.73
22:AW:30:ALA:HA	22:AW:34:GLN:HG2	1.70	0.73
34:BA:115:G:C2	34:BA:313:A:C2	2.77	0.73
34:BA:1412:C:H42	34:BA:1488:G:H1	1.35	0.73
34:BA:20:U:N3	34:BA:21:G:C5	2.57	0.73
34:BA:317:G:O2'	34:BA:318:G:H5'	1.88	0.73
34:BA:342:C:C2	34:BA:348:G:N2	2.57	0.73
34:BA:713:G:C2'	34:BA:714:G:C8	2.72	0.73
34:BA:719:C:H3'	34:BA:720:C:C6	2.22	0.73
34:BA:811:C:O2'	34:BA:901:A:N1	2.22	0.73
34:BA:965:A:H4'	34:BA:966:G:OP1	1.87	0.73
38:BF:78:GLY:O	38:BF:80:GLY:N	2.22	0.73
39:BG:133:VAL:CG1	39:BG:138:TYR:HB2	2.18	0.73
39:BG:101:LEU:N	39:BG:138:TYR:O	2.19	0.73
40:BH:84:PHE:CE1	40:BH:133:TYR:HB3	2.23	0.73
41:BI:10:LEU:HD12	41:BI:10:LEU:H	1.52	0.73
42:BJ:111:ARG:HD2	42:BJ:123:GLU:HB2	1.70	0.73
43:BK:109:ILE:HG23	43:BK:137:VAL:O	1.88	0.73
44:BL:15:ALA:HB2	44:BL:76:ALA:HB3	1.71	0.73
48:BP:4:ILE:C	48:BP:6:GLY:H	1.92	0.73
48:BP:88:ARG:O	48:BP:91:ARG:HB2	1.88	0.73
48:BP:90:LEU:HD23	48:BP:93:ARG:NH1	2.01	0.73
35:BB:30:G:H8	35:BB:30:G:O5'	1.71	0.73
10:AK:115:ILE:CA	10:AK:131:VAL:HG13	2.18	0.73
2:AA:1508:A:H5''	2:AA:1510:A:C5	2.24	0.73
38:BF:153:VAL:CB	38:BF:166:GLU:HB3	2.17	0.73
8:AH:167:LEU:N	8:AH:167:LEU:HD23	2.04	0.73
50:BR:17:ARG:HD3	50:BR:77:ARG:NE	2.04	0.73
2:AA:2246:G:N2	2:AA:2247:A:C5	2.57	0.73
24:A0:58:GLY:CA	24:A0:80:PHE:HE2	1.92	0.72
25:A1:59:ARG:HA	25:A1:62:ILE:CG1	2.19	0.72
26:A2:22:VAL:HG12	26:A2:23:GLU:N	2.03	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:A4:55:ARG:O	28:A4:61:LYS:NZ	2.20	0.72
32:A8:12:ARG:HD3	32:A8:13:ARG:HD2	1.71	0.72
2:AA:2348:U:C5'	32:A8:42:ARG:HH22	2.02	0.72
2:AA:1014:U:H2'	2:AA:1015:G:O5'	1.89	0.72
2:AA:1135:C:O2	2:AA:2038:G:H4'	1.89	0.72
2:AA:1222:C:C4	2:AA:1223:C:H5	2.06	0.72
2:AA:137(A):G:H1	2:AA:139:G:N2	1.87	0.72
2:AA:1933:G:O2'	2:AA:1934:C:H5'	1.88	0.72
2:AA:1951:U:H2'	2:AA:1951:U:O2	1.88	0.72
2:AA:2330:G:C2	2:AA:2386:C:N4	2.56	0.72
2:AA:2464:C:H2'	2:AA:2465:C:O5'	1.88	0.72
2:AA:2648:C:N3	2:AA:2672:G:N2	2.32	0.72
2:AA:2706:G:H2'	2:AA:2707:G:O5'	1.89	0.72
2:AA:2726:U:O3'	2:AA:2727:G:H8	1.71	0.72
2:AA:273(E):U:H3	2:AA:363(A):A:H2	1.36	0.72
2:AA:2795:G:N3	2:AA:2795:G:H2'	2.04	0.72
2:AA:2841:C:C2'	2:AA:2842:G:C8	2.68	0.72
2:AA:323:G:OP2	2:AA:340:A:H2	1.71	0.72
2:AA:383:U:O2	2:AA:385:C:N4	2.22	0.72
2:AA:1449:A:C2	2:AA:449(A):G:C1'	2.71	0.72
2:AA:460:A:C8	2:AA:461:C:C5	2.77	0.72
2:AA:971:C:OP2	2:AA:974(A):C:O2	2.06	0.72
4:AD:146:LYS:CD	4:AD:147:PRO:HD2	2.19	0.72
5:AE:83:LEU:HD13	5:AE:178:LEU:HD22	1.69	0.72
5:AE:303:PRO:HB2	5:AE:307:LEU:HD13	1.70	0.72
6:AF:197:SER:HB2	6:AF:238:SER:HB2	1.71	0.72
14:AO:94:ARG:HB2	14:AO:120:LEU:HD22	1.71	0.72
15:AP:49:VAL:CG1	15:AP:50:VAL:N	2.51	0.72
16:AQ:59:ALA:HB3	16:AQ:91:ARG:HH22	1.53	0.72
17:AR:10:GLY:HA3	17:AR:53:ASP:H	1.52	0.72
21:AV:14:LEU:HD23	21:AV:79:ILE:HD13	1.71	0.72
34:BA:1058:G:H2'	34:BA:1059:C:O4'	1.89	0.72
34:BA:1068:G:O2'	34:BA:1069:C:H5'	1.88	0.72
34:BA:1504:G:OP2	34:BA:1504:G:H3'	1.89	0.72
34:BA:22:G:C2'	34:BA:23:C:O4'	2.37	0.72
34:BA:552:U:O2'	34:BA:553:A:H5'	1.89	0.72
34:BA:559:A:O2'	34:BA:560:U:OP2	2.06	0.72
34:BA:611:A:H61	34:BA:629:G:H1	1.37	0.72
34:BA:688:G:C2'	34:BA:689:C:H5'	2.18	0.72
34:BA:772:U:O2'	34:BA:773:G:H5'	1.89	0.72
34:BA:775:G:O2'	34:BA:776:G:H5'	1.88	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:975:A:C5'	34:BA:976:G:H5'	2.19	0.72
40:BH:78:HIS:CB	43:BK:104:ARG:HD2	2.04	0.72
44:BL:50:LEU:CD1	44:BL:56:LEU:HA	2.19	0.72
45:BM:34:VAL:HA	45:BM:74:ILE:HG12	1.70	0.72
48:BP:48:LEU:CD2	48:BP:52:GLU:HB2	2.18	0.72
49:BQ:6:LEU:O	49:BQ:8:GLU:HG2	1.89	0.72
53:BU:25:THR:HG22	53:BU:42:ARG:NH2	2.03	0.72
53:BU:53:ARG:O	53:BU:55:ARG:N	2.21	0.72
54:BV:36:ARG:NE	54:BV:72:GLY:HA2	2.03	0.72
7:AG:90:LEU:CD1	48:BP:3:ARG:HH12	1.97	0.72
10:AK:66:LYS:O	10:AK:69:LYS:HB3	1.88	0.72
26:A2:6:GLN:HE22	26:A2:10:LYS:HB3	1.53	0.72
28:A4:19:GLN:HB3	28:A4:30:GLU:O	1.89	0.72
32:A8:23:MET:SD	32:A8:47:GLY:C	2.67	0.72
33:A9:20:HIS:C	33:A9:22:ARG:H	1.91	0.72
2:AA:1222:C:C2'	2:AA:1223:C:H5'	2.19	0.72
2:AA:565:C:O2'	2:AA:1253:A:C2	2.41	0.72
2:AA:1416:G:N3	2:AA:1583:A:N1	2.38	0.72
2:AA:1488:G:C2'	2:AA:1489:U:H5'	2.18	0.72
2:AA:1583:A:H5'	2:AA:1585:C:OP1	1.90	0.72
2:AA:1763:G:H2'	2:AA:1764:G:O5'	1.88	0.72
2:AA:1804:C:N4	2:AA:1813:G:H1	1.87	0.72
2:AA:1912:A:N1	2:AA:1919:A:C8	2.57	0.72
2:AA:2181:G:N2	2:AA:2182:G:O4'	2.21	0.72
2:AA:2239:G:H2'	2:AA:2240:C:H6	1.54	0.72
2:AA:2342:C:O2	2:AA:2374:C:H5''	1.87	0.72
2:AA:2542:A:C5'	2:AA:2543:G:OP1	2.37	0.72
2:AA:2585:U:H1'	35:BC:76:A:N7	2.04	0.72
2:AA:2626:C:H2'	2:AA:2627:G:C8	2.24	0.72
2:AA:2753:A:O2'	2:AA:2754:U:H5'	1.89	0.72
2:AA:2866:U:H1'	2:AA:2868:A:O4'	1.89	0.72
2:AA:287:C:H2'	2:AA:288:C:C6	2.24	0.72
2:AA:534:U:C5'	25:A1:46:GLU:HG2	2.18	0.72
2:AA:591:C:C4	2:AA:592:G:N7	2.57	0.72
2:AA:59:U:H6	2:AA:59:U:H5''	1.54	0.72
2:AA:684:G:O2'	2:AA:788:A:N6	2.21	0.72
2:AA:2711:A:OP1	2:AA:712(A):A:P	2.47	0.72
2:AA:976:C:N4	2:AA:987:G:H1	1.86	0.72
3:AC:22:ILE:HB	3:AC:190:ARG:HH22	1.54	0.72
3:AC:33:ALA:HB1	3:AC:39:GLU:HB3	1.69	0.72
4:AD:186:LYS:HG2	4:AD:186:LYS:O	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:175:ASP:O	5:AE:178:LEU:N	2.22	0.72
6:AF:153:VAL:HG21	6:AF:207:LEU:HD11	1.71	0.72
7:AG:24:HIS:O	7:AG:129:ASP:HB3	1.88	0.72
9:AJ:89:LYS:HE3	11:AL:59:THR:HB	1.70	0.72
13:AN:47:THR:CB	13:AN:48:PRO:HD2	2.19	0.72
13:AN:66:LYS:CE	13:AN:82:ASN:ND2	2.37	0.72
2:AA:1614:A:N6	18:AS:88:ARG:CB	2.50	0.72
21:AV:19:ILE:HG13	21:AV:79:ILE:HA	1.70	0.72
22:AW:7:GLU:CD	22:AW:8:ILE:HG13	2.10	0.72
34:BA:1350:A:H2'	34:BA:1351:U:C6	2.25	0.72
34:BA:1234:C:H1'	34:BA:1364:U:O2	1.89	0.72
34:BA:1451:A:H5''	34:BA:1452:C:N4	2.04	0.72
34:BA:173:U:C5'	34:BA:197:A:O4'	2.37	0.72
34:BA:195:A:H4'	55:BW:68:LYS:HZ3	1.54	0.72
34:BA:197:A:H3'	34:BA:197:A:OP2	1.88	0.72
34:BA:340:U:H2'	34:BA:341:C:C6	2.24	0.72
34:BA:445:G:H2'	34:BA:446:G:H8	1.53	0.72
34:BA:563:A:O2'	34:BA:566:G:O2'	2.04	0.72
34:BA:735:C:H5'	53:BU:71:LYS:HD3	1.71	0.72
34:BA:894:G:C4	34:BA:895:G:C8	2.77	0.72
34:BA:950:U:O2'	34:BA:951:G:H5'	1.89	0.72
43:BK:111:ILE:HD12	43:BK:135:CYS:O	1.89	0.72
43:BK:26:VAL:CG2	43:BK:27:PRO:HD2	2.16	0.72
47:BO:26:ALA:O	47:BO:27:LEU:O	2.07	0.72
48:BP:14:ARG:HD3	48:BP:41:PRO:O	1.88	0.72
36:B1:17:G:N2	36:B1:39:A:H61	1.86	0.72
24:A0:105:ARG:CZ	24:A0:105:ARG:N	2.52	0.72
24:A0:77:ARG:HB2	24:A0:77:ARG:NH1	2.04	0.72
25:A1:43:ALA:HB1	26:A2:75:LYS:HB2	1.69	0.72
28:A4:6:HIS:CE1	28:A4:55:ARG:HB2	2.24	0.72
29:A5:34:PRO:HG2	29:A5:35:GLN:N	2.04	0.72
30:A6:38:LYS:O	30:A6:50:PHE:HB2	1.89	0.72
32:A8:16:ILE:HG13	32:A8:22:VAL:CG2	2.19	0.72
2:AA:1203:G:H3'	2:AA:1203:G:N3	2.04	0.72
2:AA:1294:U:O2	2:AA:1294:U:H2'	1.89	0.72
2:AA:1526:G:N2	2:AA:1546:C:C4	2.57	0.72
2:AA:1602:U:C6	2:AA:1602:U:H3'	2.25	0.72
2:AA:1609:A:C6	2:AA:1616:A:H2	2.06	0.72
2:AA:1732:A:OP1	2:AA:1733:G:N7	2.22	0.72
2:AA:1819:A:OP2	4:AD:153:LEU:HG	1.89	0.72
2:AA:1913:A:N1	2:AA:1917:U:O4	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1952:A:C5	2:AA:1953:A:C2	2.76	0.72
2:AA:528:A:H2	2:AA:2043:C:H4'	1.54	0.72
2:AA:209:C:C2'	2:AA:210:C:H5'	2.19	0.72
2:AA:2638:G:N2	2:AA:2778:A:H62	1.86	0.72
2:AA:35:G:O4'	2:AA:454:A:C1'	2.37	0.72
2:AA:466:A:C2'	2:AA:467:G:H5'	2.19	0.72
2:AA:503:A:O2'	2:AA:506:G:OP2	2.06	0.72
2:AA:684:G:N2	2:AA:794:G:C2	2.57	0.72
2:AA:698:C:H5'	2:AA:698:C:H6	1.53	0.72
2:AA:919:G:C2'	2:AA:920:G:H8	2.00	0.72
3:AC:133:PRO:HG3	3:AC:134:ARG:NH1	2.03	0.72
4:AD:107:LYS:HB3	4:AD:193:GLU:HB2	1.69	0.72
5:AE:70:VAL:HG13	5:AE:71:THR:H	1.53	0.72
6:AF:200:PRO:HB3	6:AF:205:ARG:HD3	1.70	0.72
2:AA:1080:C:H1'	11:AL:127:ILE:HA	1.71	0.72
13:AN:22:ILE:HB	13:AN:40:VAL:HG12	1.69	0.72
14:AO:66:VAL:HB	14:AO:67:ARG:NH2	2.04	0.72
15:AP:45:GLN:CB	15:AP:152:SER:O	2.36	0.72
15:AP:48:ASN:ND2	15:AP:122:PHE:N	2.37	0.72
18:AS:32:ALA:HA	18:AS:35:ILE:HG13	1.70	0.72
18:AS:5:ALA:HB2	18:AS:54:ALA:CB	2.08	0.72
23:AX:13:ILE:H	23:AX:13:ILE:HD13	1.53	0.72
23:AX:53:LEU:O	23:AX:54:VAL:CG1	2.36	0.72
34:BA:1044:A:H2'	34:BA:1045:C:C4'	2.18	0.72
34:BA:1255:G:O2'	34:BA:1258:G:H1'	1.88	0.72
34:BA:440:A:C6	34:BA:495:U:C5	2.77	0.72
34:BA:513:C:C2	34:BA:514:C:C5	2.77	0.72
34:BA:862:C:H1'	34:BA:874:G:C5'	2.20	0.72
35:BC:57:G:H2'	35:BC:58:A:C5'	2.20	0.72
37:BE:14:GLY:HA3	37:BE:209:ARG:CZ	2.19	0.72
38:BF:42:LEU:HD12	38:BF:94:LEU:HD12	1.70	0.72
39:BG:120:LEU:HD11	39:BG:125:HIS:HB2	1.70	0.72
40:BH:9:LYS:HD2	40:BH:112:LEU:HD23	1.71	0.72
40:BH:78:HIS:HB3	43:BK:107:LEU:HD11	1.71	0.72
48:BP:20:THR:HG23	48:BP:25:ILE:O	1.89	0.72
53:BU:70:ILE:HG22	53:BU:74:ARG:HE	1.51	0.72
35:BB:31:A:C8	35:BB:31:A:H5''	2.24	0.72
10:AK:54:GLU:OE1	10:AK:54:GLU:HA	1.88	0.72
26:A2:59:GLU:OE1	26:A2:99:GLN:HA	1.89	0.72
27:A3:39:ARG:N	27:A3:69:PHE:HZ	1.86	0.72
28:A4:48:ARG:HG3	28:A4:49:PHE:CD1	2.23	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:A5:29:ASN:O	29:A5:30:LEU:O	2.07	0.72
29:A5:34:PRO:CD	29:A5:35:GLN:H	2.01	0.72
2:AA:1029:A:O2'	2:AA:1030:G:OP1	2.06	0.72
2:AA:1140:C:N3	12:AM:49:ARG:CZ	2.52	0.72
2:AA:1173:G:H1'	2:AA:1177:A:N1	2.03	0.72
2:AA:974:G:OP2	2:AA:1188:U:C6	2.42	0.72
2:AA:1299:G:H4'	2:AA:1301:A:C2	2.20	0.72
2:AA:1299:G:O2'	2:AA:1301:A:C2	2.40	0.72
2:AA:1316:U:O2'	2:AA:1317:A:H5'	1.89	0.72
2:AA:133:C:O2'	2:AA:134:C:H5'	1.89	0.72
2:AA:142:G:OP1	2:AA:1596:A:H5''	1.90	0.72
2:AA:1515:C:H6	2:AA:1515:C:OP1	1.71	0.72
2:AA:1470:G:H2'	2:AA:1519:G:O6	1.90	0.72
2:AA:1809:A:H2'	2:AA:1810:A:H5'	1.71	0.72
2:AA:1792:G:N1	2:AA:1827:C:N4	2.38	0.72
2:AA:1831:G:H2'	2:AA:1832:C:C6	2.23	0.72
2:AA:1950:G:C5	2:AA:1951:U:H5	2.07	0.72
2:AA:1986:A:N1	2:AA:1987:G:C5	2.57	0.72
2:AA:2268:A:H5'	2:AA:2269:A:OP2	1.90	0.72
2:AA:2345:G:N2	2:AA:2382:G:OP2	2.22	0.72
2:AA:2422:A:H2'	2:AA:2424:C:H5	1.55	0.72
2:AA:2587:A:HO2'	2:AA:2588:G:H5'	1.51	0.72
2:AA:2661:G:H2'	2:AA:2662:A:H8	1.48	0.72
2:AA:2820:A:N7	5:AE:304:ASP:OD2	2.22	0.72
2:AA:567:A:C2	2:AA:568:U:H1'	2.25	0.72
2:AA:70:G:OP1	2:AA:112:U:N3	2.22	0.72
3:AC:46:LYS:HB2	3:AC:210:ARG:HB2	1.71	0.72
4:AD:77:VAL:HG11	4:AD:109:LEU:O	1.89	0.72
4:AD:145:LEU:HD23	4:AD:183:ILE:HG12	1.70	0.72
5:AE:107:GLU:HB3	5:AE:110:ARG:NE	2.04	0.72
7:AG:136:ARG:H	7:AG:136:ARG:HD2	1.54	0.72
7:AG:28:GLY:HA2	7:AG:69:ILE:CG2	2.18	0.72
2:AA:1084:A:N7	9:AI:25:LEU:HD13	2.04	0.72
9:AI:42:ALA:HB2	9:AJ:42:ALA:HB2	1.70	0.72
12:AM:73:LYS:O	12:AM:140:GLY:C	2.28	0.72
12:AM:88:PRO:HD2	12:AM:94:GLY:HA3	1.71	0.72
14:AO:94:ARG:HB2	14:AO:120:LEU:CD1	2.18	0.72
14:AO:81:VAL:HG12	14:AO:81:VAL:O	1.88	0.72
17:AR:14:GLU:CG	17:AR:15:PRO:HD2	2.20	0.72
17:AR:15:PRO:HB2	17:AR:17:THR:OG1	1.89	0.72
17:AR:49:LEU:HD22	17:AR:54:THR:HG23	1.67	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AT:7:HIS:O	19:AT:26:PHE:HB3	1.88	0.72
19:AT:47:VAL:HB	19:AT:69:SER:HB2	1.72	0.72
20:AU:9:LYS:O	20:AU:13:ARG:HB2	1.89	0.72
21:AV:6:LYS:HD3	21:AV:30:VAL:HG11	1.71	0.72
21:AV:65:LEU:O	21:AV:83:PHE:HA	1.89	0.72
34:BA:1396:A:H4'	34:BA:1398:A:O4'	1.89	0.72
34:BA:1451:A:H5''	34:BA:1452:C:C4	2.24	0.72
34:BA:519:C:N4	34:BA:520:A:C2	2.57	0.72
34:BA:776:G:C5'	34:BA:777:A:OP1	2.34	0.72
37:BE:82:ARG:HA	37:BE:92:TYR:HE1	1.49	0.72
39:BG:170:VAL:HG21	39:BG:176:LEU:CB	2.20	0.72
41:BI:1:MET:SD	41:BI:68:PRO:CD	2.77	0.72
41:BI:27:GLN:CA	41:BI:30:LEU:HD13	2.19	0.72
50:BR:41:GLU:HA	50:BR:41:GLU:OE2	1.89	0.72
51:BS:20:VAL:CG1	51:BS:21:VAL:N	2.52	0.72
6:AF:61:PHE:HB3	6:AF:65:ARG:CZ	2.19	0.72
4:AD:169:LYS:NZ	4:AD:169:LYS:N	2.34	0.72
25:A1:98:ILE:HD12	25:A1:101:ARG:HG3	1.70	0.72
27:A3:30:VAL:HG23	27:A3:62:LEU:HB3	1.71	0.72
27:A3:37:LEU:HD11	27:A3:71:ASN:ND2	2.05	0.72
2:AA:1011:G:O6	2:AA:1150:C:N3	2.23	0.72
2:AA:106:C:H2'	2:AA:107:C:C5'	2.19	0.72
2:AA:1246:A:N1	2:AA:1247:A:C2	2.57	0.72
2:AA:1391:U:N3	2:AA:1394:U:C5	2.58	0.72
2:AA:1513:C:H2'	2:AA:1514:U:H5	1.55	0.72
2:AA:1572:A:O2'	2:AA:1573:G:OP1	2.06	0.72
2:AA:1631:A:N6	2:AA:1683:C:H5'	2.04	0.72
2:AA:2115:G:O3'	3:AC:126:LYS:HB2	1.90	0.72
2:AA:2136:C:H5''	2:AA:2137:C:OP2	1.89	0.72
2:AA:2398:U:H2'	2:AA:2399:G:H8	1.54	0.72
2:AA:2678:C:H2'	2:AA:2679:A:O4'	1.88	0.72
2:AA:2733:A:H2'	2:AA:2734:A:O5'	1.89	0.72
2:AA:280:C:O2'	2:AA:281:G:C4	2.43	0.72
2:AA:2821:A:P	2:AA:2821:A:H3'	2.29	0.72
2:AA:2838:G:O2'	2:AA:2839:G:H5'	1.89	0.72
2:AA:2845:G:O2'	2:AA:2846:G:C5'	2.36	0.72
2:AA:318:C:O2'	2:AA:319:C:H5'	1.90	0.72
2:AA:385:C:O5'	2:AA:385:C:H6	1.72	0.72
2:AA:462:C:C4	2:AA:468:G:N2	2.57	0.72
2:AA:735:A:H2'	2:AA:736:C:H5'	1.71	0.72
2:AA:687:C:N4	2:AA:775:G:H1	1.86	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:791:C:C5	2:AA:794:G:O4'	2.43	0.72
2:AA:849:A:O2'	2:AA:850:C:H5'	1.89	0.72
4:AD:66:PHE:N	4:AD:67:LYS:HZ3	1.87	0.72
8:AH:83:GLU:HB2	8:AH:133:LYS:CG	2.18	0.72
10:AK:26:ALA:HA	10:AK:29:PHE:CE2	2.23	0.72
10:AK:5:PHE:CG	10:AK:17:GLU:O	2.43	0.72
12:AM:58:GLU:HG3	12:AM:139:LEU:HD12	1.70	0.72
14:AO:109:LEU:HD13	14:AO:110:GLY:N	2.03	0.72
16:AQ:90:LEU:HA	16:AQ:93:GLN:CD	2.09	0.72
34:BA:1192:C:N4	34:BA:1193:G:C6	2.57	0.72
34:BA:1261:A:H5'	34:BA:1283:G:O3'	1.88	0.72
34:BA:1422:G:N2	34:BA:1479:C:C2	2.57	0.72
34:BA:313:A:H2'	34:BA:314:C:C5	2.24	0.72
34:BA:370:C:O2'	34:BA:371:G:C5'	2.32	0.72
34:BA:542:G:N2	34:BA:543:C:C2	2.57	0.72
34:BA:563:A:H4'	34:BA:565:U:H5	1.54	0.72
34:BA:727:G:N2	34:BA:731:G:C4	2.57	0.72
35:BB:2:C:N3	35:BB:71:G:N1	2.37	0.72
35:BC:19:G:C4	35:BC:57:G:N2	2.57	0.72
37:BE:187:LEU:HD22	37:BE:188:ALA:N	2.04	0.72
39:BG:121:VAL:O	39:BG:134:ASP:HA	1.89	0.72
39:BG:127:THR:N	39:BG:147:ALA:O	2.23	0.72
41:BI:9:VAL:HG23	41:BI:87:ARG:HB2	1.72	0.72
45:BM:49:VAL:O	45:BM:60:ARG:HD2	1.88	0.72
50:BR:29:VAL:HG11	50:BR:81:LEU:HD11	1.71	0.72
53:BU:29:PHE:CZ	53:BU:39:VAL:HG11	2.23	0.72
54:BV:30:LEU:CD2	54:BV:31:ILE:H	2.01	0.72
24:A0:31:HIS:CD2	24:A0:34:ILE:HD11	2.22	0.72
27:A3:44:LYS:HB3	27:A3:45:PHE:CD1	2.24	0.72
27:A3:46:LYS:NZ	27:A3:81:ILE:HD11	2.05	0.72
28:A4:48:ARG:N	28:A4:52:THR:OG1	2.23	0.72
31:A7:27:GLY:C	31:A7:31:LEU:HG	2.08	0.72
31:A7:34:ARG:O	31:A7:35:ARG:C	2.26	0.72
32:A8:60:LEU:HD21	32:A8:64:ARG:HB2	1.70	0.72
2:AA:1189:A:H2'	2:AA:1190:G:H5'	1.71	0.72
2:AA:1367:A:O2'	31:A7:25:LYS:HD3	1.89	0.72
2:AA:1668:A:O2'	2:AA:1669:A:H3'	1.90	0.72
2:AA:1777:U:H2'	2:AA:1778:U:C6	2.20	0.72
2:AA:1941:C:H41	2:AA:1965:C:H1'	1.53	0.72
2:AA:2273:A:H8	2:AA:2274:A:O4'	1.73	0.72
2:AA:2653:U:H3'	2:AA:2654:A:C8	2.24	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:25:U:C2'	2:AA:26:G:C8	2.69	0.72
2:AA:2787:C:H2'	2:AA:2788:C:C6	2.24	0.72
2:AA:2877:G:H3'	2:AA:2878:U:C5	2.25	0.72
2:AA:388:G:C2'	2:AA:390:A:H62	2.02	0.72
2:AA:464:U:N3	2:AA:465:G:N7	2.37	0.72
2:AA:464:U:H1'	2:AA:788:A:N1	2.05	0.72
2:AA:88:G:H2'	2:AA:88:G:N3	2.03	0.72
2:AA:913:U:O2'	2:AA:914:C:C5	2.36	0.72
3:AC:75:LEU:HD22	3:AC:110:PHE:CE2	2.25	0.72
3:AC:133:PRO:HG2	3:AC:134:ARG:H	1.52	0.72
3:AC:36:LYS:NZ	3:AC:37:PHE:N	2.36	0.72
2:AA:1816:G:N7	4:AD:63:ILE:HG13	2.04	0.72
5:AE:256:THR:CA	5:AE:259:HIS:HE1	2.03	0.72
8:AH:121:GLU:N	8:AH:121:GLU:CD	2.42	0.72
8:AH:18:VAL:CG1	8:AH:42:ILE:HD12	2.19	0.72
2:AA:1084:A:C4'	9:AI:38:ALA:H	2.03	0.72
11:AL:79:LEU:CD2	11:AL:137:ILE:HD13	2.19	0.72
18:AS:55:ALA:HA	18:AS:107:LEU:CD1	2.15	0.72
18:AS:13:SER:O	18:AS:14:PRO:C	2.27	0.72
19:AT:52:VAL:CG2	19:AT:66:VAL:HG22	2.20	0.72
20:AU:46:ASP:HA	20:AU:102:ASP:OD1	1.90	0.72
20:AU:71:VAL:CG1	20:AU:72:ILE:N	2.52	0.72
21:AV:151:ASP:O	21:AV:153:LYS:HD2	1.89	0.72
21:AV:64:ALA:HB3	21:AV:85:MET:HA	1.72	0.72
34:BA:1163:C:C2'	34:BA:1164:G:H5'	2.18	0.72
34:BA:448:A:H62	34:BA:486:U:H3	1.38	0.72
34:BA:51:A:C2	34:BA:353:A:C6	2.77	0.72
34:BA:584:G:OP1	52:BT:87:LYS:HD3	1.88	0.72
34:BA:862:C:C4	34:BA:863:U:C5	2.78	0.72
34:BA:962:C:H2'	34:BA:963:G:O4'	1.90	0.72
37:BE:16:HIS:HA	37:BE:204:ASN:HB3	1.72	0.72
39:BG:61:LYS:HA	39:BG:203:VAL:HG22	1.72	0.72
41:BI:53:ALA:C	41:BI:55:ASP:N	2.42	0.72
34:BA:1371:G:OP1	44:BL:68:GLY:HA3	1.90	0.72
45:BM:47:PHE:CZ	45:BM:65:LEU:HB2	2.24	0.72
46:BN:111:ASP:O	46:BN:112:THR:C	2.28	0.72
46:BN:46:GLY:H	46:BN:55:LYS:HD3	1.54	0.72
52:BT:27:PHE:O	52:BT:36:ILE:HD13	1.88	0.72
34:BA:195:A:C4'	55:BW:68:LYS:NZ	2.53	0.72
25:A1:49:ASP:HA	25:A1:52:ASN:HD22	1.53	0.72
28:A4:40:HIS:HB3	28:A4:41:PRO:HD3	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1023:U:P	2:AA:1025:G:N1	2.63	0.72
2:AA:142(A):A:C5	2:AA:1143:A:N7	2.57	0.72
2:AA:1527:G:H1'	2:AA:1545:A:H62	1.53	0.72
2:AA:1552:G:H5''	2:AA:1553:A:OP1	1.90	0.72
2:AA:1665:A:HO2'	13:AN:67:ARG:CZ	2.02	0.72
2:AA:1778:U:C2	2:AA:1784:A:C2	2.78	0.72
2:AA:1993:U:H2'	2:AA:1994:C:C5'	2.20	0.72
2:AA:2000:G:H2'	2:AA:2001:A:C8	2.21	0.72
2:AA:2056:G:N2	2:AA:2057:A:O4'	2.22	0.72
2:AA:2423:U:C6	2:AA:2425:A:C6	2.77	0.72
2:AA:2482:G:N7	2:AA:2483:C:C5	2.58	0.72
2:AA:2581:G:H1	2:AA:2610:C:C2'	2.01	0.72
2:AA:269:U:H3	2:AA:270:A:N6	1.86	0.72
2:AA:2776:A:H4'	2:AA:2778:A:OP1	1.89	0.72
2:AA:465:G:C6	2:AA:466:A:C6	2.78	0.72
2:AA:489:G:H21	2:AA:491:G:H1'	1.54	0.72
2:AA:530:G:O2'	2:AA:531:C:C4'	2.37	0.72
2:AA:749:C:O2'	2:AA:1617:C:H2'	1.89	0.72
2:AA:974:G:O2'	2:AA:974(A):C:O5'	2.04	0.72
2:AA:975:G:C8	2:AA:990:A:C6	2.77	0.72
1:AB:15:A:H5'	1:AB:16:G:N7	2.03	0.72
1:AB:13:A:H2	1:AB:69:G:H21	1.32	0.72
4:AD:129:LEU:HD22	4:AD:133:ASN:CB	2.20	0.72
4:AD:131:LEU:HD11	4:AD:183:ILE:HG21	1.72	0.72
2:AA:2589:A:OP1	4:AD:230:ASN:ND2	2.22	0.72
5:AE:39:GLN:HA	5:AE:174:LEU:HG	1.69	0.72
5:AE:77:PRO:HG2	5:AE:186:GLU:CB	2.19	0.72
6:AF:153:VAL:CG1	6:AF:157:LEU:HD21	2.20	0.72
6:AF:27:ARG:O	6:AF:31:ILE:HG13	1.88	0.72
6:AF:55:ARG:HA	6:AF:79:ARG:HH21	1.52	0.72
9:AI:9:ALA:O	9:AI:13:LEU:HG	1.89	0.72
10:AK:4:ILE:HG22	10:AK:4:ILE:O	1.89	0.72
13:AN:64:ARG:CG	13:AN:79:PHE:HD1	2.01	0.72
14:AO:92:ASP:CB	14:AO:118:LEU:CD2	2.64	0.72
15:AP:86:ARG:HH11	15:AP:120:HIS:HD2	1.37	0.72
20:AU:41:ARG:HB3	20:AU:111:ARG:CG	2.13	0.72
22:AW:62:GLU:OE1	22:AW:62:GLU:N	2.23	0.72
23:AX:27:GLY:O	23:AX:28:LEU:HD23	1.89	0.72
34:BA:1201:A:O2'	34:BA:1202:G:OP2	2.08	0.72
34:BA:1237:C:C1'	34:BA:1334:G:H21	2.03	0.72
34:BA:1534:A:N3	34:BA:1534:A:C3'	2.43	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:153:C:H2'	34:BA:154:C:C6	2.24	0.72
34:BA:17:U:H2'	34:BA:18:C:H6	1.53	0.72
34:BA:815:A:C4	34:BA:1529:G:C6	2.78	0.72
34:BA:857:C:H2'	34:BA:858:G:H8	1.54	0.72
34:BA:994:A:H61	34:BA:1046:A:H2	1.38	0.72
35:BB:15:G:H22	35:BB:48:C:N4	1.88	0.72
35:BB:53:G:C2'	35:BB:54:U:C5'	2.54	0.72
35:BC:74:C:H2'	35:BC:75:C:C5'	2.18	0.72
38:BF:11:ARG:CG	38:BF:15:THR:O	2.34	0.72
34:BA:429:U:C2'	39:BG:22:LYS:NZ	2.51	0.72
40:BH:107:ARG:HG2	40:BH:111:GLU:CG	2.20	0.72
43:BK:109:ILE:HG13	43:BK:109:ILE:O	1.89	0.72
46:BN:91:ARG:O	46:BN:95:ILE:HG13	1.89	0.72
55:BW:53:LEU:O	55:BW:56:MET:N	2.23	0.72
35:BB:28:C:O2	35:BB:29:A:H8	1.71	0.72
24:A0:52:ILE:O	24:A0:55:ALA:HB3	1.90	0.72
2:AA:2839:G:O2'	24:A0:92:GLY:HA3	1.90	0.72
25:A1:28:ARG:HA	25:A1:31:GLN:HB2	1.71	0.72
26:A2:21:ARG:HB2	26:A2:95:ILE:CD1	2.18	0.72
31:A7:30:ILE:HD13	31:A7:33:ARG:CD	2.20	0.72
32:A8:9:MET:O	32:A8:14:ILE:HB	1.89	0.72
2:AA:1084:A:H5''	9:AI:37:VAL:N	2.03	0.72
2:AA:1193:G:O2'	2:AA:1194:A:H5'	1.90	0.72
2:AA:1362:C:O2	2:AA:1369:G:N1	2.20	0.72
2:AA:1636:C:O2'	2:AA:1761:C:H1'	1.90	0.72
2:AA:1689:A:H2'	2:AA:1690:A:C8	2.15	0.72
2:AA:2231:C:H2'	2:AA:2232:U:C5	2.22	0.72
2:AA:2486:G:C2	2:AA:2487:G:C8	2.78	0.72
2:AA:2488:A:C6	2:AA:2489:G:C5	2.78	0.72
2:AA:2491:U:C5'	2:AA:2570:G:H5'	2.20	0.72
2:AA:2616:C:C2'	2:AA:2617:C:H6	1.85	0.72
2:AA:2687:U:O2	2:AA:2687:U:H2'	1.87	0.72
2:AA:2799:A:H5''	2:AA:2801:A:OP2	1.89	0.72
2:AA:359:A:H2	2:AA:361:G:N2	1.88	0.72
2:AA:271:G:C2	2:AA:404:C:N4	2.57	0.72
2:AA:650:C:O2'	2:AA:651:G:H5'	1.89	0.72
2:AA:941:A:C2	2:AA:942:G:C4	2.77	0.72
1:AB:102:G:N2	1:AB:103:U:H3	1.87	0.72
2:AA:1799:G:C2	4:AD:153:LEU:HD21	2.25	0.72
4:AD:185:GLY:C	4:AD:187:CYS:H	1.92	0.72
7:AG:45:THR:HA	7:AG:83:PHE:CZ	2.24	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:109:ALA:HB2	11:AL:128:ILE:HD11	1.72	0.72
13:AN:21:VAL:CG1	13:AN:22:ILE:N	2.53	0.72
13:AN:37:ASP:HB2	13:AN:62:VAL:HG21	1.71	0.72
14:AO:53:ARG:H	14:AO:53:ARG:CD	1.84	0.72
15:AP:25:GLY:O	15:AP:27:GLY:N	2.21	0.72
15:AP:56:ILE:O	15:AP:112:ALA:CB	2.38	0.72
18:AS:24:ILE:HD13	18:AS:36:LEU:HD11	1.71	0.72
20:AU:14:ALA:HB1	20:AU:15:PRO:CD	2.18	0.72
20:AU:18:GLU:O	20:AU:21:LYS:N	2.23	0.72
20:AU:14:ALA:HB3	20:AU:18:GLU:OE1	1.89	0.72
21:AV:142:ASN:N	21:AV:171:VAL:HG11	2.05	0.72
2:AA:930:U:OP1	23:AX:37:LEU:HD21	1.89	0.72
34:BA:1316:G:C8	34:BA:1316:G:OP2	2.42	0.72
34:BA:254:G:H2'	34:BA:255:G:H8	1.54	0.72
34:BA:265:G:O2'	34:BA:266:G:H5'	1.88	0.72
34:BA:309:G:O2'	34:BA:310:G:H5'	1.90	0.72
34:BA:36:C:H2'	34:BA:37:U:H6	1.54	0.72
34:BA:409:G:N2	34:BA:433:C:N3	2.30	0.72
34:BA:741:G:H2'	34:BA:742:G:C8	2.17	0.72
34:BA:76:C:N3	34:BA:93:G:N2	2.32	0.72
39:BG:25:ARG:CZ	39:BG:30:LYS:HD3	2.19	0.72
42:BJ:80:VAL:HG21	42:BJ:85:TYR:HB2	1.71	0.72
43:BK:22:GLU:HA	43:BK:63:LEU:CD1	2.19	0.72
50:BR:39:LEU:HD23	50:BR:39:LEU:C	2.10	0.72
53:BU:40:LEU:C	53:BU:42:ARG:H	1.91	0.72
34:BA:185:A:N3	55:BW:81:LYS:NZ	2.38	0.72
35:BB:26:G:H2'	35:BB:26:G:N3	2.05	0.72
35:BB:9:A:C2	35:BB:45:G:N7	2.57	0.72
3:AC:181:PRO:CD	3:AC:184:LYS:HD2	2.15	0.72
1:AB:35:U:C5	1:AB:36:C:C5	2.78	0.72
26:A2:65:ARG:NH1	26:A2:94:LYS:NZ	2.37	0.72
2:AA:923:C:O4'	27:A3:26:PHE:CD2	2.43	0.72
28:A4:5:LEU:HA	28:A4:56:VAL:HA	1.72	0.72
30:A6:12:MET:HB2	30:A6:27:ASN:HD22	1.53	0.72
2:AA:1127:A:H2'	2:AA:1128:A:H8	1.54	0.72
2:AA:126:A:H4'	31:A7:19:ARG:HE	1.54	0.72
2:AA:1327:C:H3'	2:AA:1328:G:C8	2.25	0.72
2:AA:1391:U:C4	2:AA:1394:U:H5	2.07	0.72
2:AA:16:G:C4'	29:A5:18:MET:HE3	2.20	0.72
2:AA:1681:G:C5	2:AA:1762:A:N7	2.58	0.72
2:AA:2016:U:H5''	2:AA:2058:A:OP1	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2320:A:H8	2:AA:2320:A:O5'	1.72	0.72
2:AA:2320:A:N3	2:AA:2333:A:C5	2.56	0.72
2:AA:2332:U:H4'	2:AA:2336:A:H61	1.54	0.72
2:AA:2626:C:O2'	2:AA:2627:G:H5'	1.89	0.72
2:AA:2785:C:O2	5:AE:100:TRP:CD1	2.43	0.72
2:AA:2808:U:OP1	2:AA:2809:A:OP2	2.08	0.72
2:AA:2633:G:H5'	2:AA:2811:G:O3'	1.90	0.72
2:AA:2835:A:N6	2:AA:2879:C:OP2	2.23	0.72
2:AA:412:A:O2'	2:AA:413:C:H5'	1.90	0.72
2:AA:500:G:H2'	2:AA:501:A:H5''	1.70	0.72
2:AA:528:A:C3'	2:AA:528:A:C8	2.71	0.72
2:AA:537:C:H2'	2:AA:539:G:H8	1.53	0.72
2:AA:611:C:O2'	2:AA:616:A:H2	1.73	0.72
2:AA:702:G:C6	2:AA:731:C:N4	2.58	0.72
2:AA:853:G:H2'	2:AA:854:G:C8	2.21	0.72
2:AA:997:G:C4'	25:A1:92:ARG:HH11	2.01	0.72
1:AB:20:C:H2'	1:AB:21:G:H5'	1.72	0.72
4:AD:104:ILE:HD13	4:AD:106:PRO:HG2	1.72	0.72
4:AD:80:ILE:O	4:AD:80:ILE:HD12	1.89	0.72
5:AE:216:ARG:NH2	5:AE:255:GLN:CA	2.53	0.72
5:AE:48:MET:O	5:AE:49:THR:HG22	1.89	0.72
6:AF:167:ASP:HB3	6:AF:232:LEU:H	1.53	0.72
8:AH:11:PRO:O	8:AH:14:VAL:CG2	2.38	0.72
11:AL:22:PRO:HG2	11:AL:23:PRO:CD	2.19	0.72
12:AM:103:VAL:C	12:AM:104:TYR:CD1	2.63	0.72
13:AN:86:ILE:C	13:AN:87:ILE:HD12	2.09	0.72
19:AT:23:LYS:H	19:AT:68:LEU:HG	1.53	0.72
21:AV:172:LEU:CG	21:AV:173:PRO:HD2	2.16	0.72
34:BA:1015:A:H1'	34:BA:1218:C:O2'	1.90	0.72
34:BA:169:C:H2'	34:BA:170:U:H6	1.55	0.72
34:BA:281:G:O2'	34:BA:282:A:H8	1.73	0.72
34:BA:568:G:C2	34:BA:569:C:C4	2.78	0.72
37:BE:107:THR:HA	37:BE:110:GLN:OE1	1.90	0.72
37:BE:222:ILE:HG13	37:BE:226:ARG:HE	1.53	0.72
37:BE:39:ILE:HG22	37:BE:41:ILE:CD1	2.20	0.72
42:BJ:111:ARG:NH2	42:BJ:122:HIS:HB3	2.04	0.72
42:BJ:54:THR:O	42:BJ:56:GLN:N	2.22	0.72
34:BA:598:U:O4'	43:BK:94:TYR:HD2	1.71	0.72
47:BO:41:ARG:NH2	47:BO:57:LYS:NZ	2.37	0.72
47:BO:53:ARG:HH22	47:BO:92:ASP:HB3	1.54	0.72
50:BR:36:ILE:HG22	50:BR:37:ASN:H	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:9:VAL:HG11	52:BT:84:LEU:HD12	1.72	0.72
37:BE:135:GLN:HB3	37:BE:139:LYS:HE3	1.71	0.72
25:A1:111:ASP:O	25:A1:114:ARG:HG3	1.90	0.72
2:AA:1084:A:C4	9:AI:25:LEU:HB3	2.25	0.72
2:AA:1299:G:H21	2:AA:1641:A:H62	1.36	0.72
2:AA:1534:G:O2'	2:AA:1536:A:H4'	1.90	0.72
2:AA:1348:G:C2	2:AA:1599:C:N3	2.58	0.72
2:AA:2018:G:O2'	2:AA:2019:A:H5'	1.89	0.72
2:AA:2323:G:H2'	2:AA:2324:C:H6	1.52	0.72
2:AA:2384:G:H3'	2:AA:2386:C:P	2.29	0.72
2:AA:2450:A:H2'	2:AA:2451:A:H5'	1.71	0.72
2:AA:2653:U:N3	2:AA:2654:A:N6	2.38	0.72
2:AA:286:C:H2'	2:AA:287:C:O5'	1.89	0.72
2:AA:559:G:C2'	2:AA:560:C:C6	2.65	0.72
2:AA:737:C:N3	2:AA:759:G:N2	2.37	0.72
2:AA:784:A:N6	2:AA:792:G:N3	2.38	0.72
2:AA:949:C:H2'	2:AA:950:G:C8	2.24	0.72
2:AA:980:A:H2	2:AA:2038:G:O4'	1.71	0.72
1:AB:53:A:C6	1:AB:54:G:C8	2.77	0.72
3:AC:86:ALA:HB2	3:AC:149:ILE:CD1	2.19	0.72
4:AD:103:ILE:HG13	4:AD:104:ILE:HG13	1.71	0.72
6:AF:212:VAL:O	6:AF:212:VAL:HG12	1.90	0.72
7:AG:146:LYS:HG3	16:AQ:15:GLU:CG	2.18	0.72
8:AH:86:LEU:HD23	8:AH:148:ARG:HE	1.55	0.72
8:AH:151:ARG:HB2	8:AH:161:ILE:HD13	1.72	0.72
9:AI:62:VAL:HG22	9:AI:101:VAL:HG22	1.72	0.72
12:AM:39:VAL:HG11	12:AM:108:PRO:CD	2.18	0.72
14:AO:113:GLN:HE21	14:AO:115:ARG:HH12	1.37	0.72
17:AR:14:GLU:HG3	17:AR:15:PRO:HD2	1.72	0.72
13:AN:101:PRO:HD3	17:AR:26:GLY:HA2	1.71	0.72
22:AW:12:THR:HB	22:AW:13:PRO:HD2	1.72	0.72
34:BA:1196:U:H5'	34:BA:1197:G:O5'	1.89	0.72
34:BA:1346:A:O2'	34:BA:1347:G:OP2	2.07	0.72
34:BA:978:A:N6	34:BA:1361:G:N2	2.38	0.72
34:BA:1539:C:N4	36:B1:50:G:N1	2.29	0.72
34:BA:174:C:N4	34:BA:175:C:H41	1.88	0.72
34:BA:306:G:C4	34:BA:307:C:C5	2.77	0.72
34:BA:377:G:O2'	34:BA:378:G:O5'	2.07	0.72
34:BA:459:G:H21	34:BA:463:A:H62	1.38	0.72
34:BA:704:A:H2'	34:BA:705:U:C6	2.25	0.72
35:BB:51:G:C4	35:BB:52:U:C5	2.77	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BH:86:ALA:O	40:BH:125:SER:HB3	1.90	0.72
41:BI:11:ASN:OD1	41:BI:14:LEU:N	2.23	0.72
48:BP:16:ASP:HA	48:BP:19:LEU:HG	1.70	0.72
48:BP:48:LEU:HD21	48:BP:53:VAL:N	2.05	0.72
54:BV:36:ARG:HA	54:BV:71:LEU:HD12	1.70	0.72
10:AK:68:LEU:HD22	10:AK:108:LEU:HD11	1.72	0.72
36:B1:34:U:H2'	36:B1:35:C:H6	1.55	0.72
2:AA:1716:U:O5'	2:AA:1716:U:C6	2.43	0.72
2:AA:2081:C:H5''	28:A4:35:VAL:HG21	1.72	0.71
29:A5:44:HIS:HA	29:A5:52:TYR:CZ	2.25	0.71
2:AA:2284:C:P	30:A6:9:ILE:CG1	2.77	0.71
32:A8:16:ILE:CA	32:A8:22:VAL:HG22	2.20	0.71
2:AA:1083:U:H6	2:AA:1083:U:OP2	1.73	0.71
2:AA:1084:A:H5'	9:AI:35:ALA:O	1.90	0.71
2:AA:1428:C:N4	2:AA:1569:A:H5''	2.05	0.71
2:AA:1451:C:H3'	2:AA:1453:A:C5'	2.20	0.71
2:AA:1463:C:O2'	2:AA:1464:C:O5'	2.08	0.71
2:AA:1530:G:P	2:AA:1539:G:N1	2.63	0.71
2:AA:1557:C:H5''	2:AA:1558:A:OP2	1.89	0.71
2:AA:1416:G:N2	2:AA:1582:C:H42	1.87	0.71
2:AA:1324:G:C1'	2:AA:1616:A:N6	2.53	0.71
2:AA:1805:U:H2'	2:AA:1806:C:H6	1.55	0.71
2:AA:1917:U:H6	2:AA:1918:A:C8	2.08	0.71
2:AA:2425:A:H1'	2:AA:2427:C:C2	2.25	0.71
2:AA:2563:U:C5'	13:AN:27:GLY:HA2	2.18	0.71
2:AA:2573:C:H5''	2:AA:2574:G:C5'	2.20	0.71
2:AA:2507:C:C4	2:AA:2582:G:N1	2.58	0.71
2:AA:2581:G:N1	2:AA:2610:C:H2'	2.04	0.71
2:AA:270(Q):C:C2	2:AA:270(R):G:C8	2.78	0.71
2:AA:2820:A:H2'	2:AA:2821:A:OP1	1.90	0.71
2:AA:358:U:H3'	2:AA:359:A:C5'	2.18	0.71
2:AA:427:U:H6	2:AA:427:U:O5'	1.73	0.71
2:AA:743:G:O2'	2:AA:744:G:H5'	1.89	0.71
2:AA:695:G:H1	2:AA:767:U:H3	1.37	0.71
2:AA:974:G:H3'	26:A2:82:ARG:CZ	2.19	0.71
2:AA:972:G:H8	2:AA:974:G:OP1	1.69	0.71
2:AA:978:G:H1	2:AA:985:C:H42	0.75	0.71
2:AA:2115:G:HO2'	3:AC:126:LYS:HD2	1.55	0.71
4:AD:184:LEU:C	4:AD:187:CYS:SG	2.68	0.71
4:AD:80:ILE:HB	4:AD:82:TYR:CD1	2.25	0.71
5:AE:247:ARG:HB2	5:AE:249:THR:OG1	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:303:PRO:HB2	5:AE:307:LEU:CD1	2.20	0.71
8:AH:41:THR:O	8:AH:52:THR:HG23	1.90	0.71
8:AH:51:VAL:CG2	8:AH:68:ARG:HG2	2.20	0.71
2:AA:2749:A:O4'	8:AH:62:ALA:HB2	1.89	0.71
13:AN:122:ILE:N	13:AN:122:ILE:HD12	2.04	0.71
13:AN:7:ARG:HB3	13:AN:44:LYS:HE3	1.69	0.71
14:AO:76:LEU:HD11	14:AO:96:VAL:HG12	1.71	0.71
16:AQ:21:HIS:O	16:AQ:24:LEU:N	2.23	0.71
16:AQ:91:ARG:O	16:AQ:94:GLU:HG3	1.90	0.71
1:AB:75:G:N3	21:AV:22:VAL:HG21	2.04	0.71
23:AX:55:ARG:NH1	23:AX:55:ARG:HB3	2.03	0.71
34:BA:1400:C:H1'	35:BC:34:G:N2	2.03	0.71
34:BA:202:U:O3'	34:BA:203:U:H6	1.71	0.71
34:BA:286:G:O2'	34:BA:287:U:H5'	1.90	0.71
34:BA:390:C:H2'	34:BA:391:G:H8	1.54	0.71
34:BA:568:G:N1	34:BA:569:C:N4	2.38	0.71
39:BG:120:LEU:HD23	39:BG:121:VAL:N	2.05	0.71
39:BG:154:ASN:HA	39:BG:159:ARG:NH2	2.05	0.71
43:BK:9:MET:O	43:BK:10:LEU:C	2.24	0.71
34:BA:539:A:OP1	47:BO:114:LYS:HE2	1.89	0.71
47:BO:83:VAL:HG22	47:BO:84:LEU:H	1.54	0.71
35:BB:26:G:C2	35:BB:27:C:C1'	2.73	0.71
10:AK:124:LEU:HD21	10:AK:146:THR:CA	2.19	0.71
2:AA:2367:G:O2'	2:AA:2368:C:H5'	1.89	0.71
27:A3:8:GLY:O	27:A3:10:SER:OG	2.08	0.71
24:A0:28:LEU:HD13	24:A0:28:LEU:C	2.09	0.71
24:A0:67:LEU:HB2	24:A0:76:VAL:HG21	1.71	0.71
25:A1:91:ASN:O	25:A1:95:LEU:HD11	1.89	0.71
26:A2:67:LYS:NZ	26:A2:94:LYS:HD2	2.06	0.71
31:A7:32:ALA:CA	31:A7:35:ARG:HG3	2.20	0.71
32:A8:26:LYS:HE3	32:A8:45:GLY:H	1.55	0.71
2:AA:1034:G:O4'	33:A9:18:ARG:NH1	2.23	0.71
2:AA:1068:G:H4'	2:AA:1096:A:H1'	1.71	0.71
2:AA:1155:A:C2	2:AA:1157:G:H1'	2.25	0.71
2:AA:1489:U:O2	2:AA:1500:G:O6	2.06	0.71
2:AA:197:A:H5''	2:AA:2068:U:N3	2.04	0.71
2:AA:1667:G:O2'	2:AA:1991:U:O4	2.09	0.71
2:AA:2122:U:H2'	2:AA:2123:G:C5'	2.21	0.71
2:AA:2507:C:C2	2:AA:2582:G:N2	2.57	0.71
2:AA:2555:U:O2'	2:AA:2556:C:H5'	1.89	0.71
2:AA:2633:G:OP1	2:AA:2811:G:O2'	2.09	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2747:G:O6	2:AA:2755:C:H5''	1.89	0.71
2:AA:343:C:C2	2:AA:344:G:C2	2.75	0.71
2:AA:444:C:O3'	25:A1:2:PRO:HD2	1.90	0.71
2:AA:529:A:O2'	2:AA:530:G:C8	2.43	0.71
2:AA:2218:G:O3'	4:AD:184:LEU:CD1	2.38	0.71
4:AD:79:THR:O	4:AD:91:ALA:HA	1.89	0.71
5:AE:63:GLU:O	5:AE:67:THR:HA	1.89	0.71
6:AF:140:VAL:O	6:AF:237:GLU:HG3	1.90	0.71
2:AA:452:G:P	6:AF:52:ALA:CB	2.78	0.71
6:AF:84:VAL:C	6:AF:85:LYS:HD2	2.10	0.71
8:AH:37:HIS:NE2	8:AH:64:HIS:CE1	2.58	0.71
8:AH:60:HIS:HA	8:AH:63:LEU:HB2	1.70	0.71
9:AJ:42:ALA:HB3	9:AJ:43:PRO:HD3	1.70	0.71
10:AK:6:LEU:N	10:AK:36:ALA:HB2	2.04	0.71
11:AL:76:SER:O	11:AL:79:LEU:HB3	1.89	0.71
13:AN:11:ALA:HA	13:AN:99:PHE:HB2	1.71	0.71
14:AO:52:LYS:HD3	14:AO:53:ARG:NH1	2.05	0.71
15:AP:84:ARG:HH22	15:AP:86:ARG:NH2	1.88	0.71
17:AR:13:ILE:HG13	17:AR:33:SER:CA	2.20	0.71
17:AR:45:GLU:O	17:AR:48:ASN:ND2	2.23	0.71
2:AA:494:G:H4'	18:AS:6:ILE:HG23	1.73	0.71
21:AV:116:VAL:O	21:AV:116:VAL:HG22	1.91	0.71
21:AV:118:HIS:ND1	21:AV:167:THR:O	2.23	0.71
21:AV:92:VAL:HA	21:AV:124:ALA:HB1	1.71	0.71
21:AV:3:LEU:HD13	21:AV:34:LEU:HD23	1.72	0.71
23:AX:26:LEU:CB	23:AX:28:LEU:HD11	2.20	0.71
34:BA:1047:G:O2'	34:BA:1048:G:H5'	1.89	0.71
34:BA:1178:G:H22	34:BA:1180:A:H3'	1.53	0.71
34:BA:1256:A:H5'	34:BA:1258:G:O4'	1.90	0.71
34:BA:928:G:N2	34:BA:1390:U:H1'	2.05	0.71
34:BA:258:G:H1	34:BA:268:C:H42	1.38	0.71
34:BA:515:G:O6	34:BA:533:A:N7	2.23	0.71
34:BA:545:C:H5''	39:BG:72:GLU:HG2	1.72	0.71
34:BA:866:C:H5	34:BA:867:G:C4	2.07	0.71
34:BA:939:G:H1	34:BA:1344:C:H42	0.75	0.71
35:BB:8:U:C5	35:BB:13:C:N4	2.57	0.71
35:BC:14:A:H2'	35:BC:15:G:H8	1.55	0.71
38:BF:179:ARG:HG3	38:BF:179:ARG:HH11	1.55	0.71
44:BL:82:ALA:CB	44:BL:96:LEU:HD11	2.18	0.71
45:BM:49:VAL:CG1	45:BM:50:ILE:N	2.53	0.71
34:BA:551:U:C5'	47:BO:119:LYS:HE2	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:52:GLU:HA	48:BP:55:ARG:CD	2.20	0.71
34:BA:392:G:P	51:BS:12:LYS:HZ1	2.11	0.71
52:BT:18:THR:HG22	52:BT:43:LEU:CD2	2.13	0.71
52:BT:74:LEU:CD1	52:BT:75:ARG:HB3	2.20	0.71
52:BT:96:GLN:CD	52:BT:97:SER:N	2.43	0.71
2:AA:1050:A:N6	2:AA:2751:G:N7	2.37	0.71
6:AF:61:PHE:CB	6:AF:65:ARG:NH1	2.50	0.71
2:AA:531:C:H41	25:A1:38:THR:HA	1.54	0.71
2:AA:531:C:C4	25:A1:38:THR:HG22	2.24	0.71
2:AA:1044:G:C4'	2:AA:1047:G:H4'	2.20	0.71
2:AA:112:U:O4	2:AA:113:G:C2	2.43	0.71
2:AA:1169:G:H1	2:AA:1180:C:H42	0.78	0.71
2:AA:1470:G:N2	2:AA:1522:G:N1	2.38	0.71
2:AA:1513:C:H2'	2:AA:1514:U:C5	2.25	0.71
2:AA:1604:C:HO2'	2:AA:1605:C:H5'	1.52	0.71
2:AA:1743:G:C4	2:AA:1746:G:C8	2.78	0.71
2:AA:179:G:C3'	2:AA:180:G:H8	2.03	0.71
2:AA:1824:G:H2'	2:AA:1825:A:O4'	1.89	0.71
2:AA:2138:C:H2'	2:AA:2139:C:C6	2.22	0.71
2:AA:860:U:O2	2:AA:2268:A:N3	2.22	0.71
2:AA:2866:U:O2'	2:AA:2867:G:O5'	2.08	0.71
2:AA:491:G:H2'	2:AA:492:A:H8	1.53	0.71
2:AA:821:A:N7	2:AA:946:G:C5	2.58	0.71
1:AB:15:A:H5'	1:AB:16:G:C8	2.25	0.71
3:AC:190:ARG:CB	3:AC:190:ARG:HH11	2.04	0.71
4:AD:85:ASN:HB2	4:AD:86:ARG:HH21	1.54	0.71
4:AD:89:ASN:HD21	4:AD:199:ARG:HE	1.34	0.71
5:AE:258:TYR:CD2	5:AE:258:TYR:N	2.57	0.71
5:AE:74:GLU:CA	5:AE:293:TYR:HE2	2.01	0.71
5:AE:300:VAL:C	5:AE:302:GLY:H	1.93	0.71
5:AE:48:MET:HB3	5:AE:71:THR:CG2	2.13	0.71
2:AA:617:G:H4'	6:AF:219:ASN:OD1	1.89	0.71
6:AF:86:GLY:O	6:AF:87:ARG:HD2	1.90	0.71
8:AH:151:ARG:N	8:AH:161:ILE:HD11	2.04	0.71
9:AI:4:ASP:O	9:AI:8:GLU:HG3	1.90	0.71
9:AJ:62:VAL:HG22	9:AJ:101:VAL:HG22	1.71	0.71
11:AL:10:LYS:O	11:AL:11:LEU:HD23	1.90	0.71
15:AP:58:HIS:O	15:AP:61:LEU:HG	1.90	0.71
19:AT:32:ALA:HA	19:AT:36:GLU:CG	2.20	0.71
21:AV:67:LYS:HZ2	21:AV:67:LYS:HA	1.53	0.71
22:AW:45:ARG:CZ	22:AW:49:LEU:HG	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1293:G:O2'	34:BA:1294:G:H5'	1.89	0.71
34:BA:389:A:H2'	34:BA:390:C:H5'	1.72	0.71
34:BA:509:A:O2'	34:BA:510:A:O5'	2.08	0.71
34:BA:562:C:O2'	47:BO:15:ARG:CB	2.31	0.71
34:BA:740:U:OP2	50:BR:2:PRO:HG3	1.91	0.71
37:BE:102:LEU:HB2	37:BE:176:GLU:CB	2.20	0.71
37:BE:18:GLY:HA3	37:BE:41:ILE:HG23	1.71	0.71
37:BE:222:ILE:HG12	37:BE:223:ILE:N	2.05	0.71
37:BE:22:LYS:O	37:BE:24:TRP:CD1	2.44	0.71
37:BE:58:ILE:HG22	37:BE:221:LEU:HD12	1.73	0.71
38:BF:188:LEU:HD13	38:BF:189:ALA:N	2.04	0.71
39:BG:42:GLN:HG2	39:BG:43:HIS:NE2	2.05	0.71
46:BN:32:ILE:C	46:BN:40:ILE:HG13	2.10	0.71
52:BT:9:VAL:O	52:BT:11:VAL:HG13	1.90	0.71
55:BW:54:LYS:O	55:BW:57:ARG:HB2	1.91	0.71
24:A0:61:HIS:O	24:A0:64:ARG:HG2	1.91	0.71
24:A0:67:LEU:HD21	24:A0:71:GLN:HA	1.70	0.71
2:AA:514:A:O2'	25:A1:32:TYR:CE1	2.42	0.71
2:AA:388:G:OP2	28:A4:29:PRO:HB3	1.91	0.71
29:A5:11:THR:HG21	29:A5:19:ARG:HH22	1.54	0.71
2:AA:1174:A:N6	2:AA:1177:A:C6	2.58	0.71
2:AA:1552:G:O2'	2:AA:1553:A:C5'	2.35	0.71
2:AA:1861:G:H4'	3:AC:205:LYS:NZ	2.04	0.71
2:AA:2074:U:O2'	2:AA:2598:A:O4'	2.08	0.71
2:AA:2102:U:H2'	2:AA:2103:C:C6	2.25	0.71
2:AA:2197:U:H5	2:AA:2224:G:C4	2.07	0.71
2:AA:2348:U:C3'	32:A8:42:ARG:NH2	2.53	0.71
2:AA:2493:U:H2'	2:AA:2494:G:O5'	1.90	0.71
2:AA:2528:U:C2	2:AA:2536:G:N2	2.58	0.71
2:AA:2556:C:O2'	2:AA:2557:G:H5'	1.90	0.71
2:AA:2582:G:H5'	2:AA:2582:G:C8	2.24	0.71
2:AA:2611:U:H6	2:AA:2611:U:H5'	1.55	0.71
2:AA:2710:C:HO2'	2:AA:2711:A:H5'	1.54	0.71
2:AA:479:A:N7	2:AA:481:G:C5	2.58	0.71
2:AA:492:A:O2'	2:AA:493:G:H5'	1.90	0.71
2:AA:475:U:C5	2:AA:509:C:C4	2.78	0.71
2:AA:571:A:C6	2:AA:575:A:N7	2.59	0.71
2:AA:657:U:H2'	2:AA:658:C:H6	1.56	0.71
2:AA:824:A:H2'	2:AA:825:C:C6	2.25	0.71
2:AA:866:A:N3	2:AA:866:A:H2'	2.05	0.71
2:AA:873:G:C4'	15:AP:32:LYS:HG2	2.19	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:81:G:O4'	2:AA:919:G:H5'	1.91	0.71
2:AA:946:G:H1	2:AA:971:C:N4	1.88	0.71
1:AB:47:C:O3'	16:AQ:107:ASN:ND2	2.23	0.71
1:AB:58:A:H62	1:AB:59:A:N6	1.88	0.71
1:AB:68:C:H2'	1:AB:69:G:C1'	2.20	0.71
1:AB:69:G:N3	1:AB:69:G:H2'	2.04	0.71
3:AC:104:LEU:HA	3:AC:130:ILE:HG12	1.72	0.71
3:AC:190:ARG:NH1	3:AC:190:ARG:CB	2.52	0.71
4:AD:109:LEU:HD11	4:AD:126:GLY:HA3	1.72	0.71
4:AD:135:PRO:HG2	4:AD:138:THR:CG2	2.18	0.71
4:AD:143:ILE:CD1	4:AD:143:ILE:H	1.88	0.71
6:AF:115:LEU:HG	6:AF:246:ARG:HH22	1.51	0.71
6:AF:46:TYR:O	6:AF:92:PRO:O	2.09	0.71
8:AH:101:LYS:HB3	8:AH:114:ILE:O	1.90	0.71
8:AH:26:LYS:HZ2	8:AH:33:THR:HG22	1.56	0.71
9:AI:26:GLU:OE2	9:AJ:43:PRO:HG3	1.88	0.71
10:AK:6:LEU:HD13	10:AK:14:LYS:HZ3	1.54	0.71
11:AL:116:LEU:CD2	11:AL:127:ILE:HD13	2.20	0.71
14:AO:59:GLU:OE1	14:AO:60:GLU:N	2.23	0.71
19:AT:11:THR:O	19:AT:12:GLU:C	2.28	0.71
19:AT:45:TYR:O	19:AT:47:VAL:HG22	1.90	0.71
21:AV:71:MET:HA	21:AV:78:PRO:HB3	0.87	0.71
21:AV:63:PRO:O	21:AV:85:MET:HG2	1.91	0.71
34:BA:1236:A:H4'	34:BA:1304:G:C4'	2.12	0.71
34:BA:1376:U:H3	34:BA:1377:A:N6	1.89	0.71
34:BA:242:C:N3	34:BA:285:G:C2	2.59	0.71
34:BA:38:G:C2	34:BA:397:A:C2	2.78	0.71
34:BA:511:C:C6	34:BA:512:U:C5	2.78	0.71
34:BA:808:C:H2'	34:BA:809:G:C8	2.24	0.71
34:BA:817:C:H4'	34:BA:818:G:OP1	1.88	0.71
34:BA:859:A:C8	34:BA:860:A:C8	2.78	0.71
34:BA:958:A:H2'	34:BA:959:A:C8	2.24	0.71
37:BE:27:LYS:HB3	37:BE:194:PRO:CG	2.21	0.71
37:BE:77:ALA:HB1	37:BE:80:ILE:HB	1.72	0.71
39:BG:39:PRO:HG2	39:BG:44:GLY:HA2	1.72	0.71
39:BG:83:SER:N	39:BG:89:THR:HG23	2.05	0.71
43:BK:112:LEU:HD21	43:BK:131:GLY:HA3	1.72	0.71
43:BK:45:ILE:HD11	43:BK:48:TYR:N	2.05	0.71
44:BL:3:GLN:N	44:BL:3:GLN:HE21	1.88	0.71
45:BM:38:ILE:O	45:BM:38:ILE:HG13	1.90	0.71
46:BN:126:ARG:C	46:BN:128:ALA:H	1.93	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:81:LEU:HD23	48:BP:89:GLY:HA2	1.71	0.71
52:BT:59:ILE:HG13	52:BT:60:ILE:H	1.53	0.71
52:BT:3:LYS:HD3	52:BT:61:GLU:O	1.90	0.71
54:BV:5:LEU:HD12	54:BV:9:VAL:CG2	2.19	0.71
35:BB:1:G:C4	35:BB:73:A:C2	2.78	0.71
28:A4:48:ARG:HB2	28:A4:71:SER:HB3	1.71	0.71
32:A8:38:GLY:O	32:A8:41:ILE:HG12	1.91	0.71
32:A8:5:LYS:C	32:A8:7:HIS:N	2.43	0.71
2:AA:108:U:O2'	2:AA:109:G:O5'	2.08	0.71
2:AA:1044:G:C2'	2:AA:1111:A:C2	2.69	0.71
2:AA:1265:A:H8	2:AA:1267:U:H3	1.38	0.71
2:AA:1358:G:N1	2:AA:1371:G:H2'	2.05	0.71
2:AA:1491:G:H3'	2:AA:1491:G:P	2.30	0.71
2:AA:49:A:C6	2:AA:177:G:N1	2.57	0.71
2:AA:1853:A:N1	2:AA:2087:G:H1'	2.04	0.71
2:AA:1883:G:C2	2:AA:1884:A:C2	2.79	0.71
2:AA:1941:C:C5	2:AA:1965:C:C2	2.79	0.71
2:AA:1992:G:N2	2:AA:1995:U:H5	1.84	0.71
2:AA:963:U:H1'	2:AA:2250:G:N2	2.04	0.71
2:AA:2252:G:H8	2:AA:2252:G:O5'	1.71	0.71
2:AA:2580:U:C6	2:AA:2581:G:H8	2.09	0.71
2:AA:2667:C:O2	8:AH:108:TYR:CB	2.36	0.71
2:AA:270(S):G:C2'	2:AA:270(T):G:H8	2.02	0.71
2:AA:2779:U:C4'	2:AA:2781:A:N7	2.52	0.71
2:AA:343:C:N3	2:AA:344:G:C6	2.56	0.71
2:AA:764:A:C5	2:AA:781:A:N1	2.58	0.71
2:AA:771:G:H2'	2:AA:772:C:H6	1.55	0.71
2:AA:799:G:OP1	2:AA:800:A:H5''	1.91	0.71
3:AC:77:ILE:HD12	3:AC:138:PRO:HG2	1.72	0.71
2:AA:2218:G:C5'	4:AD:147:PRO:HG3	2.20	0.71
2:AA:1655:A:H4'	5:AE:211:GLN:C	2.11	0.71
5:AE:240:PRO:CG	5:AE:243:PRO:HG3	2.21	0.71
6:AF:38:ALA:CB	6:AF:221:GLU:HG2	2.20	0.71
7:AG:105:SER:HG	7:AG:131:THR:HA	1.53	0.71
8:AH:37:HIS:HD2	8:AH:63:LEU:HD21	1.54	0.71
8:AH:32:LEU:HB3	8:AH:78:VAL:HG22	1.72	0.71
9:AJ:73:VAL:HG11	9:AJ:123:ALA:HB2	1.72	0.71
10:AK:5:PHE:CD2	10:AK:17:GLU:O	2.43	0.71
13:AN:21:VAL:HG13	13:AN:39:VAL:CG1	2.19	0.71
13:AN:66:LYS:HD2	13:AN:66:LYS:C	2.11	0.71
2:AA:2406:U:H3	14:AO:55:GLN:CB	2.03	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2009:G:H5'	18:AS:40:ASN:ND2	2.06	0.71
20:AU:76:ASP:O	20:AU:78:THR:N	2.23	0.71
20:AU:81:LYS:HB3	20:AU:81:LYS:NZ	2.06	0.71
21:AV:18:MET:HG3	21:AV:35:ASP:HB2	1.71	0.71
21:AV:62:PHE:CZ	21:AV:87:THR:HB	2.25	0.71
22:AW:43:PRO:HB2	22:AW:46:ILE:HG12	1.73	0.71
34:BA:1007:C:N3	34:BA:1022:G:C2	2.58	0.71
34:BA:1132:C:H2'	34:BA:1133:G:H8	1.55	0.71
34:BA:1180:A:C2'	34:BA:1181:G:H5'	2.20	0.71
34:BA:216:G:H2'	34:BA:217:C:C6	2.26	0.71
34:BA:219:C:C5	34:BA:220:G:C8	2.78	0.71
34:BA:290:C:C2'	34:BA:291:C:H5'	2.19	0.71
34:BA:460:A:N7	34:BA:462:G:C6	2.58	0.71
38:BF:12:LEU:HD13	38:BF:18:TRP:H	1.54	0.71
38:BF:150:LYS:HZ1	38:BF:152:ILE:HD11	1.55	0.71
39:BG:170:VAL:HG12	39:BG:171:GLY:N	2.05	0.71
40:BH:102:ALA:CB	40:BH:120:THR:HG22	2.20	0.71
41:BI:4:TYR:HA	41:BI:93:SER:OG	1.89	0.71
43:BK:25:ASP:HB3	43:BK:58:TYR:CD2	2.25	0.71
43:BK:36:LEU:CA	43:BK:39:LEU:HB2	2.18	0.71
48:BP:63:THR:HG23	48:BP:64:TRP:N	2.03	0.71
50:BR:68:ARG:O	50:BR:69:TYR:C	2.27	0.71
36:B1:14:U:C5'	36:B1:38:C:H42	2.04	0.71
24:A0:118:GLU:HA	24:A0:118:GLU:OE2	1.90	0.71
28:A4:49:PHE:N	28:A4:49:PHE:CD1	2.57	0.71
30:A6:35:LEU:HD23	30:A6:35:LEU:N	2.05	0.71
30:A6:39:LYS:O	30:A6:40:TYR:CD1	2.44	0.71
31:A7:41:GLN:C	31:A7:42:LEU:HG	2.11	0.71
2:AA:137(A):G:O6	2:AA:139:G:C2	2.43	0.71
2:AA:1470:G:N1	2:AA:1520:U:N3	2.39	0.71
2:AA:1472:A:N9	2:AA:1473:G:N7	2.38	0.71
2:AA:1519:G:H2'	2:AA:1520:U:C1'	2.20	0.71
2:AA:2441:C:O2'	2:AA:2442:C:C5'	2.39	0.71
2:AA:2687:U:C2	2:AA:2688:U:C6	2.78	0.71
2:AA:295:G:O5'	2:AA:296:C:OP2	2.08	0.71
2:AA:295:G:N1	2:AA:344:G:N1	2.35	0.71
2:AA:465:G:H21	2:AA:683:C:C2'	2.04	0.71
2:AA:463:G:C2	2:AA:467:G:C5	2.79	0.71
2:AA:585:G:C4	2:AA:1251:C:N4	2.58	0.71
2:AA:640:C:H3'	2:AA:640:C:H6	1.56	0.71
2:AA:662:G:HO2'	2:AA:663:G:H8	1.38	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:777:A:N1	2:AA:787:U:O4	2.23	0.71
2:AA:932:G:H5'	23:AX:24:LYS:NZ	2.05	0.71
2:AA:996:A:C6	2:AA:1160:G:C6	2.79	0.71
1:AB:118:G:O2'	1:AB:119:A:H5'	1.91	0.71
4:AD:210:LYS:HA	4:AD:213:LYS:HE2	1.71	0.71
2:AA:2680:C:H3'	5:AE:206:LYS:NZ	2.05	0.71
5:AE:46:ALA:HB3	5:AE:72:VAL:O	1.91	0.71
6:AF:154:VAL:O	6:AF:157:LEU:HB2	1.91	0.71
2:AA:674:G:C5'	6:AF:69:HIS:HA	2.21	0.71
8:AH:129:LYS:C	8:AH:130:ILE:HD12	2.11	0.71
8:AH:63:LEU:O	8:AH:66:THR:HG22	1.91	0.71
2:AA:1058:G:C3'	9:AI:2:THR:HA	2.20	0.71
15:AP:56:ILE:CD1	15:AP:115:SER:HB3	2.19	0.71
15:AP:59:ASN:ND2	15:AP:60:ALA:N	2.38	0.71
16:AQ:115:VAL:O	16:AQ:116:PHE:C	2.28	0.71
16:AQ:116:PHE:O	16:AQ:119:GLN:HB2	1.90	0.71
16:AQ:11:ARG:HG3	16:AQ:12:ARG:HG2	1.70	0.71
16:AQ:24:LEU:CA	16:AQ:33:ARG:HH22	2.04	0.71
16:AQ:32:PRO:HD2	16:AQ:101:VAL:N	2.06	0.71
16:AQ:59:ALA:HB3	16:AQ:91:ARG:NH1	2.05	0.71
20:AU:40:VAL:HG12	20:AU:41:ARG:HG3	1.71	0.71
21:AV:136:VAL:O	21:AV:137:ASP:OD1	2.09	0.71
21:AV:50:GLY:O	21:AV:51:LEU:HB2	1.89	0.71
34:BA:1132:C:H2'	34:BA:1133:G:C8	2.25	0.71
34:BA:1188:A:H2'	34:BA:1189:C:C6	2.24	0.71
34:BA:1320:C:C1'	54:BV:73:GLU:HG2	2.21	0.71
34:BA:1490:C:C5'	34:BA:1490:C:C6	2.61	0.71
34:BA:197:A:O2'	34:BA:198:G:OP2	2.08	0.71
34:BA:797:C:H2'	34:BA:798:G:H8	1.54	0.71
34:BA:848:C:C2	34:BA:849:C:C5	2.79	0.71
34:BA:757:U:H1'	34:BA:879:C:H1'	1.73	0.71
35:BC:9:A:C2	35:BC:45:G:C8	2.78	0.71
39:BG:25:ARG:NH2	39:BG:30:LYS:HD3	2.05	0.71
39:BG:93:PHE:CE1	39:BG:97:LEU:HD11	2.25	0.71
40:BH:110:LEU:HB3	40:BH:115:VAL:HG21	1.73	0.71
43:BK:24:THR:O	43:BK:24:THR:HG23	1.89	0.71
45:BM:38:ILE:HG12	45:BM:72:VAL:N	2.06	0.71
47:BO:25:PRO:O	47:BO:27:LEU:N	2.22	0.71
47:BO:90:VAL:O	47:BO:92:ASP:N	2.23	0.71
52:BT:96:GLN:C	52:BT:96:GLN:CD	2.49	0.71
55:BW:57:ARG:HH21	55:BW:100:ILE:CG2	2.03	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BW:50:GLU:N	55:BW:99:LEU:HD12	2.05	0.71
10:AK:119:ASP:CG	10:AK:120:ALA:N	2.39	0.71
2:AA:2247:A:O2'	2:AA:2248:C:H5'	1.91	0.71
25:A1:59:ARG:O	25:A1:62:ILE:N	2.23	0.71
25:A1:8:ILE:N	25:A1:8:ILE:CD1	2.48	0.71
26:A2:5:ILE:HG13	26:A2:39:PHE:CD2	2.26	0.71
2:AA:974:G:N7	26:A2:80:TYR:CE1	2.58	0.71
29:A5:15:LYS:C	29:A5:18:MET:HG2	2.11	0.71
2:AA:1024:G:N7	2:AA:1025:G:C5	2.58	0.71
2:AA:1084:A:O5'	9:AI:37:VAL:C	2.27	0.71
2:AA:1143:A:O2'	2:AA:1144:G:H5'	1.89	0.71
2:AA:1160:G:H2'	2:AA:1161:C:C6	2.25	0.71
2:AA:1202:C:H5'	2:AA:1203:G:OP2	1.90	0.71
2:AA:1206:G:O6	2:AA:1207:C:O2	2.07	0.71
2:AA:1216:G:N2	2:AA:1234:U:C1'	2.53	0.71
2:AA:1223:C:C4	26:A2:87:ARG:NH2	2.57	0.71
2:AA:1224:G:N7	2:AA:1225:C:C5	2.58	0.71
2:AA:1409:C:O2'	2:AA:1410:G:H5'	1.91	0.71
2:AA:1468:C:C4	2:AA:1524:G:N2	2.58	0.71
2:AA:1475:G:N2	2:AA:1476:C:O5'	2.23	0.71
2:AA:1572:A:H8	2:AA:1572:A:OP1	1.74	0.71
2:AA:1616:A:H4'	2:AA:1617:C:OP1	1.90	0.71
2:AA:1943:U:O2'	2:AA:1944:U:O5'	2.08	0.71
2:AA:197:A:C5	2:AA:2430:A:N7	2.59	0.71
2:AA:571:A:C8	2:AA:2030:A:N6	2.59	0.71
2:AA:2132:U:O2	2:AA:2133:G:C2	2.42	0.71
2:AA:2345:G:H21	2:AA:2382:G:P	2.13	0.71
2:AA:2330:G:N2	2:AA:2385:C:H42	1.88	0.71
2:AA:2489:G:H2'	2:AA:2490:G:H8	1.53	0.71
2:AA:242:G:H2'	2:AA:254:G:H1	1.55	0.71
2:AA:2595:G:N2	2:AA:2599:G:O6	2.22	0.71
2:AA:2604:U:C2	2:AA:2605:U:C5	2.79	0.71
2:AA:270(H):C:C4	2:AA:270(R):G:C2	2.78	0.71
2:AA:2779:U:C1'	2:AA:2781:A:N6	2.51	0.71
2:AA:2822:G:O2'	2:AA:2824:C:OP2	2.09	0.71
2:AA:308:G:C2	2:AA:329:G:N2	2.59	0.71
2:AA:338:G:OP1	20:AU:21:LYS:HD2	1.91	0.71
2:AA:465:G:C6	2:AA:466:A:N6	2.59	0.71
2:AA:615:G:O5'	2:AA:616:A:OP2	2.09	0.71
2:AA:676:A:H2'	2:AA:677:A:H5'	1.72	0.71
2:AA:834:C:H1'	2:AA:2358:G:C2	2.25	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:85:G:N2	2:AA:86:C:C2	2.58	0.71
2:AA:888:C:O2'	2:AA:889:C:H3'	1.91	0.71
2:AA:928:G:H21	2:AA:929:G:H1	1.38	0.71
2:AA:955:C:HO2'	2:AA:956:G:H5'	1.54	0.71
2:AA:957:A:N7	2:AA:959:A:C8	2.58	0.71
9:AI:1:MET:HB3	11:AL:10:LYS:HZ1	1.54	0.71
9:AJ:63:LEU:HD21	9:AJ:118:LEU:HD13	1.72	0.71
10:AK:47:LEU:HD13	10:AK:51:LYS:NZ	2.06	0.71
13:AN:21:VAL:HG12	13:AN:22:ILE:O	1.91	0.71
15:AP:50:VAL:HG12	15:AP:51:GLU:N	2.04	0.71
15:AP:82:LYS:O	15:AP:124:ALA:CA	2.39	0.71
16:AQ:34:LEU:HD12	16:AQ:34:LEU:O	1.91	0.71
16:AQ:33:ARG:HB3	16:AQ:35:VAL:CG2	2.20	0.71
2:AA:518:G:H4'	18:AS:18:ARG:NH2	2.05	0.71
18:AS:23:LEU:HD11	29:A5:27:ALA:N	2.04	0.71
21:AV:53:ASP:HA	21:AV:65:LEU:CD2	2.20	0.71
21:AV:69:VAL:CG1	21:AV:81:VAL:HG13	2.21	0.71
22:AW:43:PRO:CG	22:AW:46:ILE:HG12	2.20	0.71
34:BA:1080:A:N7	34:BA:1081:G:C1'	2.53	0.71
34:BA:1257:U:O2'	34:BA:1258:G:C8	2.43	0.71
34:BA:1305:G:C5'	56:BX:5:ASP:N	2.49	0.71
34:BA:237:C:OP1	52:BT:40:LYS:NZ	2.23	0.71
34:BA:445:G:O2'	34:BA:446:G:H5'	1.91	0.71
34:BA:609:A:C4	34:BA:610:G:C8	2.79	0.71
34:BA:762:C:N4	34:BA:763:G:O6	2.24	0.71
34:BA:766:A:C2'	34:BA:767:A:C8	2.63	0.71
34:BA:947:G:O3'	48:BP:109:THR:HB	1.89	0.71
34:BA:966:G:C2	35:BC:34:G:H5'	2.25	0.71
35:BB:60:C:P	35:BB:61:C:C6	2.83	0.71
37:BE:150:SER:HA	37:BE:153:ARG:HB2	1.72	0.71
37:BE:91:PRO:HG3	37:BE:154:LEU:HB3	1.71	0.71
37:BE:7:VAL:HG23	37:BE:8:LYS:N	2.04	0.71
37:BE:97:TRP:CD1	37:BE:101:MET:SD	2.84	0.71
38:BF:19:GLU:HB3	38:BF:55:VAL:O	1.90	0.71
39:BG:190:ASP:O	39:BG:194:LEU:HD23	1.90	0.71
39:BG:55:ALA:O	39:BG:59:ARG:CG	2.35	0.71
34:BA:1373:G:C5'	42:BJ:36:LYS:HB2	2.21	0.71
45:BM:54:PHE:CD1	45:BM:55:LYS:HG2	2.25	0.71
46:BN:62:GLN:OE1	46:BN:63:LEU:HA	1.90	0.71
47:BO:24:VAL:HG13	47:BO:98:TYR:OH	1.90	0.71
50:BR:18:PHE:O	50:BR:18:PHE:HD1	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BR:3:ILE:HG21	50:BR:34:LEU:HD21	1.72	0.71
51:BS:19:ILE:HB	51:BS:37:GLY:C	2.11	0.71
52:BT:104:LYS:O	52:BT:105:ALA:HB2	1.89	0.71
52:BT:6:LEU:HD12	52:BT:6:LEU:N	2.06	0.71
34:BA:836:G:OP2	53:BU:61:LYS:NZ	2.24	0.71
37:BE:136:VAL:CA	37:BE:139:LYS:NZ	2.52	0.71
23:AX:3:ARG:HB2	23:AX:60:GLU:CA	2.19	0.71
9:AJ:24:LYS:O	9:AJ:27:ASP:HB2	1.91	0.71
40:BH:68:GLU:O	40:BH:70:PRO:HD3	1.90	0.71
25:A1:84:LYS:HE3	25:A1:92:ARG:HH21	1.56	0.71
25:A1:99:ALA:HB2	25:A1:106:PHE:CE2	2.25	0.71
27:A3:48:GLY:H	27:A3:49:GLN:NE2	1.89	0.71
28:A4:46:GLU:O	28:A4:53:GLU:HA	1.89	0.71
28:A4:43:TRP:CA	28:A4:61:LYS:HE3	2.18	0.71
31:A7:21:ARG:HH22	31:A7:42:LEU:CB	2.03	0.71
31:A7:43:THR:O	31:A7:46:ASP:CG	2.28	0.71
2:AA:2348:U:H5''	32:A8:42:ARG:HH22	1.56	0.71
2:AA:1131:G:N2	12:AM:69:TYR:CZ	2.58	0.71
2:AA:139:G:C2'	2:AA:141(A):C:O2'	2.32	0.71
2:AA:136:G:N1	2:AA:143:C:C2	2.57	0.71
2:AA:1538:G:H2'	2:AA:1539:G:C4'	2.20	0.71
2:AA:1697:G:C8	2:AA:1698:A:H5''	2.25	0.71
2:AA:1717:G:C6	2:AA:1742:C:N3	2.59	0.71
2:AA:179:G:C4	2:AA:180:G:C8	2.79	0.71
2:AA:2015:A:H8	2:AA:2016:U:C6	2.09	0.71
2:AA:2025:C:C2	2:AA:2026:C:C5	2.79	0.71
2:AA:2256:G:H2'	2:AA:2257:U:O4'	1.89	0.71
2:AA:2287:A:C6	2:AA:2289:G:C4	2.79	0.71
2:AA:2565:A:O3'	2:AA:2566:A:O4'	2.09	0.71
2:AA:2576:G:H4'	2:AA:2577:A:C5'	2.20	0.71
2:AA:2658:C:O2'	2:AA:2659:G:H5'	1.91	0.71
2:AA:290:G:H2'	2:AA:291:C:O5'	1.90	0.71
2:AA:270:A:N6	2:AA:370:G:C4	2.59	0.71
2:AA:544:C:O2	2:AA:549:G:N1	2.22	0.71
2:AA:581:C:H5''	25:A1:32:TYR:CB	2.17	0.71
2:AA:650:C:H42	2:AA:651:G:H1	1.37	0.71
2:AA:730:C:OP2	2:AA:731:C:OP2	2.08	0.71
2:AA:886:C:H1'	2:AA:887:A:N7	2.05	0.71
2:AA:837:C:N3	2:AA:942:G:N2	2.38	0.71
2:AA:975:G:C2	2:AA:976:C:H6	2.07	0.71
2:AA:983:A:H8	2:AA:984:A:H1'	1.51	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:145:LEU:H	4:AD:152:GLN:CG	2.04	0.71
4:AD:85:ASN:CG	4:AD:86:ARG:NE	2.43	0.71
5:AE:105:HIS:HB2	5:AE:108:LEU:CG	2.14	0.71
5:AE:193:PHE:CE2	5:AE:311:PHE:HD1	2.08	0.71
8:AH:132:VAL:HG12	8:AH:140:VAL:HG13	1.73	0.71
8:AH:143:LEU:O	8:AH:146:ASN:CB	2.39	0.71
2:AA:2093:G:O2'	10:AK:29:PHE:CE1	2.36	0.71
10:AK:7:LYS:HA	10:AK:14:LYS:CG	2.13	0.71
11:AL:15:ALA:CB	11:AL:46:THR:HB	2.21	0.71
12:AM:54:VAL:HG22	12:AM:135:ILE:HD11	1.72	0.71
15:AP:48:ASN:ND2	15:AP:122:PHE:CB	2.53	0.71
16:AQ:102:LEU:CD2	16:AQ:129:ILE:HG23	2.20	0.71
17:AR:45:GLU:HB3	17:AR:48:ASN:ND2	2.05	0.71
18:AS:20:VAL:HG12	18:AS:21:VAL:N	2.05	0.71
2:AA:1393:A:N6	19:AT:13:LYS:NZ	2.36	0.71
20:AU:101:LEU:O	20:AU:103:LEU:HG	1.91	0.71
21:AV:103:ARG:HB2	21:AV:141:MET:HE1	1.73	0.71
34:BA:1363:A:C5'	34:BA:1364:U:OP1	2.39	0.71
34:BA:181:G:O2'	34:BA:182:U:OP2	2.06	0.71
34:BA:190(A):C:O2'	34:BA:190(B):C:H5'	1.90	0.71
34:BA:30:U:O2'	34:BA:31:G:OP1	2.07	0.71
34:BA:428:G:C2	34:BA:430:A:N6	2.59	0.71
34:BA:575:G:C6	34:BA:821:G:C8	2.79	0.71
34:BA:971:G:N2	34:BA:1363:A:OP2	2.23	0.71
38:BF:142:MET:SD	38:BF:146:ALA:HB3	2.30	0.71
34:BA:407:G:H4'	39:BG:115:ARG:HB3	1.70	0.71
39:BG:121:VAL:HA	39:BG:126:ILE:CG1	2.21	0.71
40:BH:17:ALA:HA	40:BH:26:PHE:CB	2.21	0.71
43:BK:37:ARG:O	43:BK:41:ARG:HB2	1.90	0.71
45:BM:32:ALA:HB2	45:BM:75:ILE:O	1.90	0.71
51:BS:57:ARG:CA	51:BS:60:LEU:HD12	2.21	0.71
53:BU:51:LEU:HD12	53:BU:51:LEU:H	1.56	0.71
54:BV:32:LYS:HA	54:BV:50:ALA:CB	2.18	0.71
10:AK:58:ALA:O	10:AK:62:LEU:HG	1.90	0.71
40:BH:50:GLU:O	40:BH:53:LEU:HB2	1.90	0.71
2:AA:1453:A:N6	24:A0:77:ARG:HD3	2.04	0.71
25:A1:13:ARG:HD3	25:A1:16:LYS:NZ	2.05	0.71
2:AA:446:G:OP2	25:A1:3:ARG:NE	2.22	0.71
18:AS:37:ARG:NH2	29:A5:48:ASN:HD21	1.89	0.71
30:A6:47:HIS:O	30:A6:48:VAL:HB	1.90	0.71
33:A9:7:VAL:CB	33:A9:36:GLN:OE1	2.31	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1322:A:H2'	2:AA:1323:U:C5'	2.21	0.71
2:AA:147:U:O2'	2:AA:148:C:H5'	1.90	0.71
2:AA:1646:C:H3'	2:AA:1647:G:C5'	2.20	0.71
2:AA:1747:G:H2'	2:AA:1748:G:H8	1.56	0.71
2:AA:1851:U:H2'	2:AA:1852:C:H6	1.51	0.71
2:AA:758:C:O2'	2:AA:1981:A:N3	2.23	0.71
2:AA:2004:G:C5	2:AA:2005:A:C5	2.79	0.71
2:AA:2186:G:H2'	2:AA:2187:G:C8	2.25	0.71
2:AA:965:C:C5'	2:AA:2273:A:H1'	1.99	0.71
2:AA:2320:A:H5'	2:AA:2321:G:C8	2.25	0.71
2:AA:2607:G:H2'	2:AA:2608:G:H5'	1.71	0.71
2:AA:2617:C:O2'	2:AA:2618:G:H5'	1.90	0.71
2:AA:2696:U:H2'	2:AA:2697:G:H8	1.56	0.71
2:AA:271:G:H2'	2:AA:272:G:C8	2.23	0.71
2:AA:464:U:H2'	2:AA:465:G:O4'	1.91	0.71
2:AA:475:U:C5	2:AA:509:C:N4	2.59	0.71
2:AA:629:G:N2	2:AA:640:C:P	2.62	0.71
2:AA:904:C:H1'	21:AV:166:LEU:CD1	2.12	0.71
2:AA:2131:G:H5''	3:AC:6:ARG:CB	2.21	0.71
4:AD:196:ASN:HA	4:AD:199:ARG:CD	2.08	0.71
4:AD:66:PHE:CG	4:AD:66:PHE:O	2.43	0.71
6:AF:239:ALA:O	6:AF:242:GLU:HG3	1.91	0.71
7:AG:76:ARG:O	7:AG:80:ALA:HB2	1.90	0.71
7:AG:93:LEU:HB3	7:AG:97:GLN:HE22	1.55	0.71
8:AH:102:LEU:HD21	8:AH:114:ILE:HB	1.73	0.71
9:AI:110:GLU:O	9:AI:113:GLU:HB2	1.91	0.71
9:AI:63:LEU:HD21	9:AI:118:LEU:HD13	1.73	0.71
9:AI:15:VAL:HG13	9:AI:45:ALA:O	1.90	0.71
11:AL:73:PRO:CG	11:AL:78:LEU:HD21	2.20	0.71
12:AM:23:ALA:O	12:AM:26:VAL:CB	2.35	0.71
15:AP:26:LYS:HD3	15:AP:90:PHE:CE1	2.26	0.71
16:AQ:47:LEU:H	16:AQ:57:THR:CG2	1.96	0.71
16:AQ:47:LEU:HD12	16:AQ:58:LEU:HD21	1.73	0.71
2:AA:495:G:H21	18:AS:61:ASN:ND2	1.89	0.71
19:AT:18:MET:SD	19:AT:18:MET:N	2.64	0.71
21:AV:118:HIS:HB2	21:AV:168:VAL:O	1.91	0.71
34:BA:1143:G:H2'	34:BA:1144:G:C8	2.26	0.71
34:BA:1259:C:N3	34:BA:1276:G:N2	2.39	0.71
34:BA:1064:G:OP1	34:BA:1386:G:H4'	1.91	0.71
34:BA:197:A:N6	34:BA:221:C:H5'	2.06	0.71
34:BA:253:U:P	52:BT:67:LYS:HE3	2.30	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:450:G:O6	34:BA:481:G:H2'	1.90	0.71
34:BA:68:G:C4'	34:BA:171:A:H1'	2.20	0.71
34:BA:70:G:H2'	34:BA:73:C:C6	2.26	0.71
34:BA:745:C:H2'	34:BA:746:A:H8	1.54	0.71
34:BA:800:G:C8	34:BA:800:G:O5'	2.43	0.71
34:BA:586:C:H1'	34:BA:878:G:O2'	1.90	0.71
38:BF:59:ARG:NH2	38:BF:64:VAL:HG13	2.05	0.71
38:BF:90:GLU:O	38:BF:93:LYS:HB2	1.91	0.71
39:BG:130:GLY:HA3	39:BG:131:ARG:HH11	1.55	0.71
39:BG:129:ASN:HD21	39:BG:144:ASP:HB3	1.55	0.71
40:BH:15:ARG:CZ	40:BH:26:PHE:CE2	2.74	0.71
40:BH:94:ALA:HB3	40:BH:118:ILE:HA	1.73	0.71
41:BI:45:LEU:HG	41:BI:59:TYR:CD1	2.26	0.71
42:BJ:14:PRO:HB2	42:BJ:19:GLY:C	2.10	0.71
34:BA:564:C:OP1	47:BO:15:ARG:NH2	2.24	0.71
47:BO:86:ARG:HH12	47:BO:99:HIS:CE1	2.07	0.71
49:BQ:9:LYS:HZ3	49:BQ:10:ALA:HB2	1.52	0.71
49:BQ:45:ARG:O	49:BQ:48:ALA:HB3	1.89	0.71
55:BW:75:ASN:O	55:BW:79:ARG:HG3	1.89	0.71
35:BB:28:C:C4	35:BB:43:G:N2	2.59	0.71
1:AB:12:C:H5''	27:A3:53:MET:HE1	1.71	0.71
47:BO:126:LYS:C	47:BO:126:LYS:HD2	2.12	0.71
3:AC:180:PHE:CE2	3:AC:184:LYS:HD3	2.24	0.71
24:A0:63:ARG:HH12	24:A0:80:PHE:HB3	1.56	0.71
24:A0:88:ARG:HH11	24:A0:88:ARG:HB2	1.54	0.71
26:A2:11:GLN:OE1	26:A2:22:VAL:HG23	1.89	0.71
30:A6:16:ALA:HB3	30:A6:19:GLY:N	2.05	0.71
2:AA:1087:G:H21	2:AA:1103:A:C3'	2.03	0.71
2:AA:1206:G:O6	2:AA:1207:C:H1'	1.90	0.71
2:AA:1391:U:N3	2:AA:1394:U:H5	1.89	0.71
2:AA:1422:G:N3	2:AA:1423:G:C8	2.59	0.71
2:AA:1681:G:O2'	2:AA:1763:G:C5'	2.38	0.71
2:AA:1771:C:H2'	2:AA:1772:G:H8	1.56	0.71
2:AA:1872:A:C2'	2:AA:1878:G:H5'	2.21	0.71
2:AA:2083:G:O2'	2:AA:2084:C:H5'	1.90	0.71
2:AA:247:G:N7	2:AA:249:C:O2	2.24	0.71
2:AA:2469:A:C2	2:AA:2482:G:C1'	2.74	0.71
2:AA:2599:G:O2'	2:AA:2600:A:H5'	1.91	0.71
2:AA:1758:G:N7	2:AA:2695:C:H4'	2.06	0.71
2:AA:1638:C:H4'	2:AA:2710:C:O2	1.90	0.71
2:AA:2757:A:O2'	2:AA:2758:A:O5'	2.07	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:297:C:C2	2:AA:342:G:N2	2.59	0.71
2:AA:343:C:H2'	2:AA:344:G:H5'	1.72	0.71
2:AA:109:G:H5'	2:AA:348:G:O2'	1.89	0.71
2:AA:290:G:H22	2:AA:350:U:C2'	2.04	0.71
2:AA:775:G:N2	2:AA:788:A:P	2.64	0.71
2:AA:814:C:O3'	2:AA:1224:G:N2	2.24	0.71
2:AA:81:G:H2'	2:AA:82:G:O4'	1.91	0.71
3:AC:41:VAL:CB	3:AC:176:GLY:O	2.38	0.71
4:AD:139:LEU:O	4:AD:139:LEU:CD1	2.39	0.71
4:AD:130:PRO:HB3	4:AD:186:LYS:O	1.91	0.71
2:AA:1993:U:H4'	5:AE:228:ARG:HE	1.55	0.71
5:AE:267:ARG:HB2	5:AE:297:LYS:CD	2.19	0.71
6:AF:218:VAL:HA	6:AF:222:ASP:OD2	1.91	0.71
6:AF:87:ARG:HH11	6:AF:87:ARG:HG2	1.55	0.71
7:AG:93:LEU:HD22	7:AG:106:PHE:CD2	2.25	0.71
11:AL:9:ILE:HD11	11:AL:31:HIS:HB3	1.71	0.71
12:AM:83:ILE:HG13	12:AM:84:ARG:H	1.55	0.71
13:AN:104:ARG:HD2	13:AN:104:ARG:H	1.56	0.71
13:AN:71:ARG:HH22	13:AN:77:ILE:HG21	1.56	0.71
13:AN:87:ILE:HG22	13:AN:88:ARG:O	1.91	0.71
15:AP:33:MET:HE3	15:AP:34:GLY:H	1.54	0.71
2:AA:1266:G:O4'	18:AS:15:ARG:NH2	2.22	0.71
22:AW:20:LEU:HA	22:AW:23:LEU:CD1	2.21	0.71
34:BA:109:A:C4'	34:BA:110:C:OP2	2.39	0.71
34:BA:1399:C:H42	34:BA:1504:G:H1	1.39	0.71
34:BA:373:A:N7	34:BA:482:A:N7	2.39	0.71
34:BA:781:A:C6	34:BA:802:A:N3	2.59	0.71
34:BA:826:C:H2'	34:BA:827:U:C6	2.26	0.71
35:BC:4:G:C5	35:BC:5:A:N7	2.58	0.71
37:BE:17:PHE:CD1	37:BE:18:GLY:N	2.59	0.71
38:BF:136:GLN:O	38:BF:139:GLN:HB2	1.91	0.71
34:BA:1376:U:H5''	42:BJ:94:ARG:HH22	1.56	0.71
43:BK:77:GLU:HG2	43:BK:78:GLN:N	2.06	0.71
46:BN:95:ILE:HG23	46:BN:98:LEU:HD12	1.71	0.71
52:BT:31:LEU:O	52:BT:32:TYR:HD2	1.72	0.71
53:BU:31:LEU:CD1	53:BU:62:GLU:OE2	2.38	0.71
53:BU:67:ALA:HA	53:BU:70:ILE:HD12	1.73	0.71
55:BW:51:GLU:HA	55:BW:54:LYS:CD	2.21	0.71
37:BE:140:HIS:HA	37:BE:143:GLU:CB	2.21	0.71
4:AD:123:ILE:O	4:AD:123:ILE:HG22	1.90	0.71
27:A3:29:GLU:O	27:A3:30:VAL:C	2.28	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:A7:17:GLY:CA	31:A7:44:VAL:HG23	2.20	0.70
31:A7:4:THR:C	31:A7:6:GLN:HE22	1.94	0.70
2:AA:1087:G:H2'	2:AA:1103:A:H2	1.55	0.70
2:AA:1255:U:O2	2:AA:1255:U:H2'	1.90	0.70
2:AA:138:G:N3	2:AA:139:G:O4'	2.24	0.70
2:AA:141(A):C:H6	2:AA:141(A):C:O5'	1.74	0.70
2:AA:1582:C:N3	2:AA:1583:A:C4	2.59	0.70
2:AA:1594:G:O2'	2:AA:1595:G:H5'	1.91	0.70
2:AA:184:C:H2'	2:AA:185:U:H6	1.56	0.70
2:AA:190:A:H2'	2:AA:191:A:C8	2.25	0.70
2:AA:1909:C:C6	2:AA:1922:G:N2	2.59	0.70
2:AA:2055:C:O2	2:AA:2055:C:H2'	1.89	0.70
2:AA:2111:C:N4	2:AA:2120:G:C1'	2.48	0.70
2:AA:251:A:H2'	2:AA:252:G:O5'	1.91	0.70
2:AA:2603:G:C5	2:AA:2604:U:C5	2.78	0.70
2:AA:2698:U:H2'	2:AA:2699:C:H6	1.55	0.70
2:AA:2845:G:N1	2:AA:2871:C:O2	2.19	0.70
2:AA:290:G:O5'	2:AA:351:G:O6	2.09	0.70
2:AA:462:C:C2	2:AA:468:G:N2	2.59	0.70
2:AA:484:C:C2'	2:AA:485:C:H6	1.96	0.70
2:AA:594:U:H2'	2:AA:595:C:C5	2.26	0.70
2:AA:605:C:H2'	2:AA:606:U:H6	1.52	0.70
2:AA:612:G:C2'	2:AA:615:G:H2'	2.21	0.70
2:AA:742:G:C2	2:AA:743:G:C8	2.79	0.70
2:AA:789:A:O2'	2:AA:790:C:P	2.48	0.70
2:AA:784:A:N6	2:AA:792:G:H1'	2.05	0.70
3:AC:200:LYS:CB	3:AC:208:PHE:CZ	2.74	0.70
6:AF:193:LEU:HD11	6:AF:231:ARG:HB3	1.73	0.70
6:AF:223:LEU:HD22	6:AF:233:THR:CG2	2.08	0.70
10:AK:7:LYS:N	10:AK:14:LYS:HG2	2.04	0.70
10:AK:28:ASN:ND2	10:AK:32:LYS:HG3	2.05	0.70
12:AM:135:ILE:O	12:AM:139:LEU:CD2	2.39	0.70
12:AM:66:ASP:O	12:AM:68:GLY:N	2.24	0.70
13:AN:43:VAL:HB	13:AN:56:GLN:N	2.06	0.70
15:AP:45:GLN:HE22	15:AP:153:PRO:CB	1.95	0.70
20:AU:103:LEU:HD23	20:AU:108:ARG:HB3	1.72	0.70
20:AU:78:THR:O	20:AU:89:ARG:NE	2.23	0.70
21:AV:100:THR:HG22	21:AV:137:ASP:CG	2.12	0.70
23:AX:23:LEU:CA	23:AX:28:LEU:HD12	2.17	0.70
34:BA:1269:A:H8	34:BA:1270:C:C1'	2.04	0.70
34:BA:1391:U:H2'	34:BA:1392:G:C8	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1451:A:H3'	34:BA:1451:A:C8	2.26	0.70
34:BA:791:G:N2	34:BA:1497:G:O3'	2.22	0.70
34:BA:266:G:N2	34:BA:270:A:H62	1.88	0.70
34:BA:269:C:H2'	34:BA:270:A:C8	2.26	0.70
34:BA:529:G:C6	47:BO:49:ASN:ND2	2.59	0.70
34:BA:565:U:H3'	34:BA:566:G:H8	1.55	0.70
34:BA:689:C:H4'	34:BA:705:U:O2	1.90	0.70
34:BA:767:A:N6	34:BA:813:U:H3	1.88	0.70
35:BC:44:A:N1	35:BC:45:G:N3	2.39	0.70
35:BC:19:G:C5	35:BC:57:G:N2	2.58	0.70
37:BE:223:ILE:O	37:BE:226:ARG:HB2	1.91	0.70
39:BG:57:ARG:HB3	39:BG:206:PHE:HB2	1.73	0.70
40:BH:61:TYR:CA	40:BH:64:ARG:HG3	2.17	0.70
42:BJ:11:GLN:HE21	42:BJ:12:LEU:H	1.38	0.70
43:BK:109:ILE:CG1	43:BK:109:ILE:O	2.39	0.70
43:BK:81:HIS:HB3	43:BK:138:TRP:O	1.91	0.70
43:BK:36:LEU:C	43:BK:39:LEU:HB2	2.09	0.70
50:BR:29:VAL:HG12	50:BR:85:LEU:HD11	1.73	0.70
51:BS:4:ILE:HA	51:BS:20:VAL:O	1.91	0.70
54:BV:30:LEU:O	54:BV:31:ILE:HG12	1.89	0.70
35:BB:11:C:C4	35:BB:12:U:C4	2.78	0.70
14:AO:82:ALA:C	14:AO:83:GLU:O	2.14	0.70
24:A0:61:HIS:ND1	24:A0:64:ARG:CZ	2.53	0.70
2:AA:1156:A:H2	25:A1:51:ARG:NH2	1.88	0.70
28:A4:61:LYS:O	28:A4:62:ARG:C	2.29	0.70
30:A6:29:ARG:CG	30:A6:30:ASN:N	2.54	0.70
31:A7:25:LYS:NZ	31:A7:28:ARG:NH2	2.40	0.70
2:AA:1058:G:O2'	2:AA:1059:G:C5'	2.39	0.70
2:AA:1084:A:H5'	9:AI:35:ALA:C	2.11	0.70
2:AA:1193:G:C2'	2:AA:1194:A:H5'	2.21	0.70
2:AA:1213:A:H61	2:AA:1236:G:H1'	1.56	0.70
2:AA:1287:A:H2'	2:AA:1288:U:C6	2.26	0.70
2:AA:139:G:C8	2:AA:141(A):C:H2'	2.25	0.70
2:AA:1582:C:C2	2:AA:1583:A:H1'	2.25	0.70
2:AA:1704:G:N2	2:AA:1705:G:H1'	2.05	0.70
2:AA:1918:A:C2'	2:AA:1919:A:N7	2.55	0.70
2:AA:1924:C:N3	2:AA:1925:C:C5	2.59	0.70
2:AA:1967:C:H2'	2:AA:1968:G:H5'	1.72	0.70
2:AA:2199:A:C2	2:AA:2225:A:N3	2.59	0.70
2:AA:2314:C:H2'	2:AA:2315:G:C8	2.26	0.70
2:AA:2406:U:C4	14:AO:55:GLN:HB3	2.26	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2432:A:N7	28:A4:30:GLU:CB	2.55	0.70
2:AA:197:A:N6	2:AA:248:G:N2	2.37	0.70
2:AA:2700:C:H2'	2:AA:2701:C:C5'	2.19	0.70
2:AA:2733:A:H61	5:AE:316:ARG:HD3	1.55	0.70
2:AA:449:A:C2	2:AA:450:G:N9	2.59	0.70
2:AA:752:A:H4'	2:AA:753:C:C5'	2.20	0.70
2:AA:953:A:O2'	2:AA:954:G:H5'	1.91	0.70
4:AD:208:GLY:HA3	4:AD:210:LYS:HE2	1.73	0.70
4:AD:213:LYS:HB3	4:AD:215:LYS:CA	2.22	0.70
4:AD:97:ASP:HB3	4:AD:99:GLU:OE2	1.91	0.70
5:AE:71:THR:OG1	5:AE:299:SER:CA	2.39	0.70
7:AG:56:ARG:HE	7:AG:65:GLU:HB2	1.54	0.70
8:AH:17:THR:HG22	8:AH:19:ASN:OD1	1.91	0.70
9:AJ:74:ILE:HG12	9:AJ:92:VAL:HG21	1.73	0.70
10:AK:2:LYS:HG3	10:AK:18:ILE:CD1	2.21	0.70
11:AL:114:PRO:C	11:AL:116:LEU:H	1.94	0.70
11:AL:132:ALA:HA	11:AL:137:ILE:HB	1.72	0.70
14:AO:94:ARG:CD	14:AO:120:LEU:HD22	2.19	0.70
15:AP:69:ASN:ND2	15:AP:70:ARG:N	2.38	0.70
16:AQ:11:ARG:HA	16:AQ:14:ARG:CZ	2.21	0.70
16:AQ:90:LEU:O	16:AQ:93:GLN:OE1	2.09	0.70
18:AS:84:ARG:HA	18:AS:84:ARG:CZ	2.21	0.70
19:AT:7:HIS:CE1	19:AT:8:PRO:O	2.44	0.70
20:AU:50:VAL:O	20:AU:97:ARG:NH2	2.24	0.70
23:AX:8:LEU:HA	23:AX:54:VAL:HG12	1.72	0.70
36:B1:53:G:H2'	36:B1:54:G:C8	2.25	0.70
36:B1:59:A:H4'	36:B1:59:A:OP2	1.90	0.70
35:BB:35:A:N1	36:B1:65:U:H2'	2.06	0.70
34:BA:1004:A:H5''	34:BA:1025:U:C4	2.25	0.70
34:BA:1067:A:O2'	34:BA:1068:G:OP2	2.07	0.70
34:BA:1283:G:C2'	34:BA:1284:C:H5'	2.21	0.70
34:BA:1464:G:H2'	34:BA:1465:C:C6	2.26	0.70
34:BA:1540:U:O4	34:BA:1541:U:O4	2.09	0.70
34:BA:232:G:H2'	34:BA:233:C:H6	1.56	0.70
34:BA:253:U:O4	34:BA:273:A:N1	2.24	0.70
34:BA:376:G:OP1	51:BS:5:ARG:HB2	1.91	0.70
34:BA:515:G:H1	34:BA:536:C:N4	1.88	0.70
39:BG:19:LEU:CA	39:BG:21:LEU:HG	2.21	0.70
39:BG:88:VAL:CG2	40:BH:96:PRO:HB3	2.21	0.70
45:BM:34:VAL:HG22	45:BM:74:ILE:CD1	2.21	0.70
48:BP:63:THR:CG2	48:BP:64:TRP:N	2.54	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BS:43:LYS:HG3	51:BS:48:TRP:CE3	2.26	0.70
52:BT:5:VAL:HG12	52:BT:6:LEU:N	2.07	0.70
34:BA:1225:A:H4'	54:BV:78:ARG:HD3	1.73	0.70
35:BB:37:G:N7	35:BB:38:A:N7	2.39	0.70
10:AK:94:THR:N	10:AK:97:GLN:OE1	2.19	0.70
2:AA:2156:G:O5'	2:AA:2156:G:C8	2.44	0.70
24:A0:20:LEU:HD22	24:A0:24:GLN:HG3	1.73	0.70
2:AA:1278:A:O3'	24:A0:34:ILE:HD12	1.91	0.70
26:A2:27:GLY:O	26:A2:28:GLU:O	2.09	0.70
26:A2:24:SER:OG	26:A2:28:GLU:HG3	1.91	0.70
26:A2:42:GLY:N	26:A2:54:TYR:CE1	2.52	0.70
2:AA:2256:G:C5'	27:A3:5:LYS:HE2	2.21	0.70
28:A4:15:ILE:N	28:A4:15:ILE:HD12	2.06	0.70
28:A4:17:GLN:OE1	28:A4:33:VAL:O	2.09	0.70
31:A7:30:ILE:HA	31:A7:33:ARG:CD	2.20	0.70
2:AA:1000:A:N7	2:AA:1001:A:C6	2.60	0.70
2:AA:1149:G:H2'	2:AA:1150:C:H6	1.56	0.70
2:AA:990:A:N6	2:AA:1186:G:N3	2.39	0.70
2:AA:585:G:N3	2:AA:1251:C:N4	2.38	0.70
2:AA:1252:G:H8	2:AA:1253:A:C1'	2.01	0.70
2:AA:1301:A:N6	2:AA:1303:G:H1'	2.06	0.70
2:AA:1333:C:H5'	2:AA:1333:C:C6	2.24	0.70
2:AA:139:G:O3'	2:AA:141(A):C:H1'	1.90	0.70
2:AA:1455:G:C8	2:AA:1455:G:H3'	2.26	0.70
2:AA:1492:G:H21	2:AA:1493:C:N4	1.89	0.70
2:AA:1572:A:C2'	2:AA:1573:G:OP1	2.39	0.70
2:AA:1593:G:H2'	2:AA:1594:G:C8	2.26	0.70
2:AA:204:A:O2'	2:AA:205:G:O5'	2.09	0.70
2:AA:2122:U:O2	2:AA:2122:U:H2'	1.91	0.70
2:AA:2128:C:OP2	2:AA:2129:C:H4'	1.91	0.70
2:AA:221:A:C5	2:AA:266:G:N7	2.59	0.70
2:AA:2553:G:H21	2:AA:2583:G:C2'	2.02	0.70
2:AA:2583:G:H2'	2:AA:2584:U:C2	2.26	0.70
2:AA:2053:G:H1	2:AA:2616:C:N4	1.88	0.70
2:AA:2618:G:C2	2:AA:2619:C:C6	2.78	0.70
2:AA:2721:A:H2'	2:AA:2722:G:C8	2.26	0.70
2:AA:2816:C:O2'	2:AA:2817:G:H5'	1.91	0.70
2:AA:2893:G:H8	2:AA:2893:G:OP2	1.73	0.70
2:AA:342:G:C2'	2:AA:343:C:C6	2.74	0.70
2:AA:50:U:C6	2:AA:50:U:H3'	2.26	0.70
2:AA:755:C:H2'	2:AA:756:C:C6	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:114:G:H2'	1:AB:115:G:H8	1.56	0.70
5:AE:104:PHE:HB3	5:AE:108:LEU:HD12	1.73	0.70
5:AE:202:ALA:CA	5:AE:262:THR:HB	2.14	0.70
6:AF:2:GLU:C	6:AF:18:LEU:HD21	2.11	0.70
7:AG:99:ASP:N	7:AG:104:PHE:CD2	2.59	0.70
8:AH:148:ARG:HH22	8:AH:164:GLU:N	1.88	0.70
8:AH:93:TYR:CD2	8:AH:159:LYS:HE2	2.26	0.70
9:AJ:60:ASP:H	9:AJ:128:LYS:HG2	1.55	0.70
11:AL:75:ALA:CB	11:AL:131:THR:HG21	2.19	0.70
11:AL:93:LYS:HA	11:AL:96:ILE:CD1	2.21	0.70
12:AM:39:VAL:O	12:AM:40:ASN:CG	2.30	0.70
13:AN:22:ILE:HG22	13:AN:23:LYS:N	2.04	0.70
13:AN:7:ARG:CB	13:AN:44:LYS:NZ	2.53	0.70
15:AP:59:ASN:HA	15:AP:62:GLU:OE1	1.92	0.70
15:AP:86:ARG:NH2	15:AP:123:ILE:HD11	2.05	0.70
17:AR:50:GLU:HG3	17:AR:55:ALA:HB1	1.72	0.70
21:AV:166:LEU:HD13	21:AV:167:THR:H	1.55	0.70
34:BA:1256:A:O3'	34:BA:1257:U:C4'	2.39	0.70
34:BA:306:G:H2'	34:BA:307:C:H6	1.56	0.70
34:BA:515:G:H1'	34:BA:537:G:N2	2.07	0.70
34:BA:648:A:C2	34:BA:649:G:C8	2.79	0.70
34:BA:834:C:N4	34:BA:853:G:C6	2.59	0.70
37:BE:194:PRO:O	37:BE:196:LEU:N	2.23	0.70
38:BF:180:ALA:HB1	38:BF:203:PHE:CE1	2.24	0.70
38:BF:15:THR:HG21	38:BF:181:ASN:HB2	1.74	0.70
38:BF:88:ARG:CZ	38:BF:101:LEU:N	2.54	0.70
40:BH:102:ALA:HB1	40:BH:120:THR:HG22	1.71	0.70
41:BI:11:ASN:HD21	41:BI:13:ASN:HD22	1.39	0.70
34:BA:1180:A:H5'	44:BL:103:THR:OG1	1.92	0.70
45:BM:45:ARG:CB	45:BM:45:ARG:HH11	2.01	0.70
47:BO:113:ARG:O	47:BO:114:LYS:HG3	1.90	0.70
34:BA:521:G:OP1	47:BO:73:GLU:O	2.10	0.70
34:BA:1226:C:N4	48:BP:104:ARG:HG3	2.06	0.70
49:BQ:24:CYS:O	49:BQ:28:GLY:HA2	1.91	0.70
24:A0:73:VAL:HG12	24:A0:77:ARG:CD	2.22	0.70
28:A4:10:VAL:HG12	28:A4:10:VAL:O	1.91	0.70
32:A8:34:THR:HG22	32:A8:36:LYS:HD2	1.73	0.70
2:AA:1012:U:C5'	2:AA:1013:C:OP1	2.37	0.70
2:AA:1312:U:H1'	2:AA:1313:U:C5	2.27	0.70
2:AA:1663:C:O2'	2:AA:1664:A:C8	2.42	0.70
2:AA:414:C:O2	2:AA:1864:U:H4'	1.89	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1886:C:O2'	2:AA:1887:C:H5'	1.92	0.70
2:AA:1958:C:O2'	2:AA:1959:G:H5'	1.89	0.70
2:AA:1977:A:C4	2:AA:1978:A:C8	2.80	0.70
2:AA:202:U:C5	2:AA:203:C:C4	2.80	0.70
2:AA:2269:A:OP1	2:AA:2269:A:H3'	1.92	0.70
2:AA:2289:G:OP1	2:AA:2384:G:O2'	2.09	0.70
2:AA:247:G:N2	32:A8:8:LYS:HZ2	1.90	0.70
2:AA:2528:U:O2'	2:AA:2529:G:H3'	1.90	0.70
2:AA:2553:G:O2'	2:AA:2582:G:H1'	1.92	0.70
2:AA:2585:U:H6	2:AA:2585:U:OP1	1.74	0.70
2:AA:2589:A:H61	2:AA:2605:U:H3	1.38	0.70
2:AA:2592:G:C2'	2:AA:2593:U:O5'	2.40	0.70
2:AA:239:U:H1'	2:AA:259:G:N2	2.06	0.70
2:AA:2766:G:N3	2:AA:2766:G:H2'	2.07	0.70
2:AA:2811:G:N2	2:AA:2891:G:H1'	2.06	0.70
2:AA:271(C):U:O4	2:AA:421:U:N1	2.24	0.70
2:AA:921:G:N2	27:A3:23:VAL:HG11	2.07	0.70
2:AA:974(A):C:O2'	2:AA:989:G:N2	2.24	0.70
1:AB:59:A:H4'	7:AG:144:ARG:HG2	1.72	0.70
5:AE:217:TRP:CD2	5:AE:251:PRO:HG3	2.26	0.70
6:AF:223:LEU:HD21	6:AF:235:PHE:HZ	1.52	0.70
6:AF:84:VAL:HB	6:AF:85:LYS:HD2	1.72	0.70
12:AM:58:GLU:HG3	12:AM:139:LEU:CB	2.19	0.70
12:AM:84:ARG:CA	12:AM:98:PHE:HE2	2.05	0.70
15:AP:59:ASN:HD22	15:AP:60:ALA:N	1.89	0.70
16:AQ:104:ILE:HG22	16:AQ:106:LEU:O	1.91	0.70
18:AS:4:LYS:CD	18:AS:106:ILE:HG12	2.20	0.70
19:AT:26:PHE:N	19:AT:26:PHE:CD1	2.57	0.70
19:AT:9:HIS:CE1	19:AT:63:LYS:HG2	2.26	0.70
34:BA:1353:G:N1	34:BA:1370:G:C2	2.58	0.70
34:BA:33:A:H5''	34:BA:34:C:OP2	1.90	0.70
34:BA:594:G:H1	34:BA:645:C:H42	1.39	0.70
34:BA:834:C:H2'	34:BA:835:U:C6	2.25	0.70
34:BA:969:A:H8	34:BA:969:A:H5'	1.55	0.70
38:BF:186:PHE:HA	38:BF:198:VAL:O	1.92	0.70
38:BF:18:TRP:H	38:BF:18:TRP:HE3	1.39	0.70
38:BF:47:LEU:N	38:BF:47:LEU:HD22	2.06	0.70
39:BG:173:TRP:CD1	39:BG:185:PHE:CE2	2.79	0.70
41:BI:83:ASP:OD2	41:BI:84:ASN:N	2.22	0.70
42:BJ:72:ARG:NH1	42:BJ:138:LYS:NZ	2.34	0.70
48:BP:14:ARG:H	48:BP:44:ARG:CZ	2.04	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BU:77:GLY:O	53:BU:79:LEU:HD13	1.91	0.70
6:AF:59:GLU:O	6:AF:61:PHE:CD2	2.43	0.70
25:A1:99:ALA:HB2	25:A1:106:PHE:CE1	2.26	0.70
31:A7:20:ALA:O	31:A7:23:LYS:HB2	1.90	0.70
2:AA:1168:G:C2'	2:AA:1169:G:H5'	2.22	0.70
2:AA:1286:A:H2'	2:AA:1288:U:OP2	1.89	0.70
2:AA:1327:C:C2'	2:AA:1328:G:H8	2.03	0.70
2:AA:137(A):G:C5'	2:AA:138:G:OP2	2.34	0.70
2:AA:444(A):A:C2	2:AA:1461:G:O5'	2.44	0.70
2:AA:1520:U:C5	2:AA:1520:U:OP2	2.44	0.70
2:AA:1637:A:O2'	2:AA:1638:C:H5'	1.92	0.70
2:AA:1767:C:O2'	2:AA:1768:U:H5'	1.91	0.70
2:AA:1771:C:N3	2:AA:1980:G:N2	2.34	0.70
2:AA:1800:C:H2'	2:AA:1801:G:H5''	1.73	0.70
2:AA:2193:G:C2	2:AA:2194:G:C8	2.80	0.70
2:AA:2252:G:H1	35:BC:74:C:H42	1.39	0.70
2:AA:2296:U:C6	2:AA:2296:U:C3'	2.66	0.70
2:AA:2307:G:H1'	2:AA:2311:A:N6	2.06	0.70
2:AA:2056:G:C8	2:AA:2577:A:C6	2.80	0.70
2:AA:265:A:C2	2:AA:266:G:N3	2.55	0.70
2:AA:2809:A:O4'	2:AA:2811:G:N7	2.25	0.70
2:AA:398:G:H21	2:AA:399:G:H1'	1.56	0.70
2:AA:58:G:C2	2:AA:73:A:C2	2.79	0.70
2:AA:858:U:H2'	2:AA:2268:A:C2'	2.21	0.70
1:AB:110:G:C2	1:AB:111:U:H1'	2.26	0.70
3:AC:114:VAL:HG21	3:AC:153:ILE:HD11	1.74	0.70
4:AD:121:ALA:HA	4:AD:129:LEU:HD13	1.72	0.70
6:AF:81:PRO:CA	6:AF:87:ARG:HH11	2.03	0.70
9:AI:60:ASP:H	9:AI:128:LYS:HG2	1.57	0.70
13:AN:107:ARG:CA	13:AN:115:ILE:HD11	2.21	0.70
13:AN:64:ARG:CB	13:AN:79:PHE:CD1	2.74	0.70
16:AQ:19:ASP:HB2	16:AQ:22:GLN:CD	2.11	0.70
16:AQ:97:VAL:HG12	16:AQ:98:GLU:N	2.07	0.70
20:AU:71:VAL:HG22	20:AU:91:LEU:O	1.91	0.70
21:AV:57:GLU:O	21:AV:59:GLY:N	2.25	0.70
34:BA:1237:C:H4'	34:BA:1334:G:H22	1.56	0.70
34:BA:474:G:O2'	34:BA:475:G:H5'	1.91	0.70
34:BA:482:A:C2	34:BA:483:C:O4'	2.44	0.70
34:BA:582:U:H2'	34:BA:583:A:O5'	1.91	0.70
34:BA:723:U:O5'	34:BA:723:U:C6	2.45	0.70
34:BA:984:C:N3	34:BA:1221:G:N2	2.37	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:19:G:C1'	35:BB:57:G:H21	2.04	0.70
35:BC:17:U:H3'	35:BC:18:G:C8	2.23	0.70
39:BG:15:GLU:HG2	39:BG:63:LYS:CB	2.22	0.70
42:BJ:114:ARG:HG2	42:BJ:114:ARG:NH1	2.06	0.70
46:BN:85:ARG:NH2	46:BN:111:ASP:OD1	2.17	0.70
46:BN:25:TYR:OH	46:BN:87:THR:HB	1.92	0.70
46:BN:69:ALA:O	46:BN:72:ALA:HB3	1.91	0.70
51:BS:6:LEU:HB2	51:BS:17:TYR:CB	2.22	0.70
51:BS:6:LEU:CD1	51:BS:6:LEU:N	2.54	0.70
53:BU:86:VAL:O	53:BU:87:ARG:HG2	1.90	0.70
34:BA:333:G:H4'	55:BW:16:HIS:NE2	2.06	0.70
55:BW:57:ARG:HH21	55:BW:100:ILE:HG22	1.56	0.70
55:BW:72:LEU:HD22	55:BW:77:ALA:H	1.54	0.70
55:BW:88:VAL:CG1	55:BW:92:LEU:HD11	2.21	0.70
10:AK:79:ILE:H	10:AK:79:ILE:HD12	1.57	0.70
10:AK:95:SER:HA	10:AK:98:ILE:CG1	2.21	0.70
2:AA:1009:A:O4'	25:A1:59:ARG:NE	2.24	0.70
26:A2:5:ILE:HG23	26:A2:38:LEU:O	1.91	0.70
27:A3:40:GLN:HA	27:A3:69:PHE:HE1	1.57	0.70
29:A5:40:LYS:HZ2	29:A5:49:CYS:CB	2.03	0.70
32:A8:19:THR:HB	32:A8:21:LYS:NZ	2.06	0.70
2:AA:1080:C:H2'	2:AA:1081:U:O4'	1.90	0.70
2:AA:1179:C:O2'	2:AA:1180:C:H6	1.71	0.70
2:AA:1300:U:C6	2:AA:1301:A:C2	2.80	0.70
2:AA:1301:A:O2'	2:AA:1302:A:H8	1.74	0.70
2:AA:1426:G:C8	2:AA:1427:A:N7	2.59	0.70
2:AA:1471:A:C2	2:AA:1472:A:C1'	2.67	0.70
2:AA:1518:C:H3'	2:AA:1519:G:C5'	2.21	0.70
2:AA:154:G:C4	2:AA:155:C:H1'	2.26	0.70
2:AA:1300:U:H2'	2:AA:1634:A:O2'	1.92	0.70
2:AA:1899:G:H22	2:AA:1902:C:H41	1.39	0.70
2:AA:1992:G:N7	2:AA:1997:G:C6	2.59	0.70
2:AA:2105:C:N4	2:AA:2106:G:O6	2.25	0.70
2:AA:2119:A:P	2:AA:2120:G:H5''	2.31	0.70
2:AA:219:G:H2'	2:AA:220:G:H8	1.56	0.70
2:AA:2281:C:O2'	2:AA:2282:G:O5'	2.08	0.70
2:AA:2339:G:H2'	2:AA:2340:G:H8	1.54	0.70
2:AA:2657:A:C2	2:AA:2665:A:C4	2.79	0.70
2:AA:2531:A:C2	2:AA:2658:C:O2	2.44	0.70
2:AA:273(D):C:C2'	2:AA:273(E):U:H5'	2.20	0.70
2:AA:2795:G:OP2	2:AA:2795:G:H3'	1.90	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2880:C:H1'	24:A0:91:GLN:O	1.90	0.70
2:AA:2630:G:N7	2:AA:2894:G:C6	2.59	0.70
2:AA:299:A:C4	2:AA:322:A:N6	2.60	0.70
2:AA:399:G:C6	2:AA:400:G:H1'	2.26	0.70
2:AA:41:C:H2'	2:AA:43:G:H8	1.56	0.70
2:AA:559:G:O2'	2:AA:560:C:O5'	2.09	0.70
2:AA:640:C:H41	2:AA:641:C:N4	1.88	0.70
2:AA:833:U:H2'	2:AA:834:C:H6	1.56	0.70
2:AA:906:G:N3	2:AA:906:G:H2'	2.06	0.70
2:AA:910:A:C6	2:AA:911:A:N6	2.59	0.70
2:AA:929:G:OP2	2:AA:930:U:C5	2.45	0.70
2:AA:993:G:C2	25:A1:54:LYS:NZ	2.60	0.70
2:AA:997:G:C4'	25:A1:92:ARG:NH1	2.54	0.70
4:AD:107:LYS:CB	4:AD:194:VAL:O	2.40	0.70
5:AE:217:TRP:CZ2	5:AE:251:PRO:HB3	2.26	0.70
2:AA:743:G:OP1	5:AE:229:GLN:HG2	1.90	0.70
7:AG:29:HIS:ND1	7:AG:69:ILE:CD1	2.54	0.70
8:AH:34:ARG:HD2	8:AH:36:PHE:CZ	2.27	0.70
9:AJ:110:GLU:O	9:AJ:113:GLU:HB2	1.91	0.70
10:AK:3:VAL:HG21	10:AK:21:VAL:H	1.56	0.70
12:AM:24:SER:O	12:AM:28:GLU:HG2	1.91	0.70
12:AM:87:LEU:HB3	12:AM:88:PRO:HD2	1.73	0.70
13:AN:105:GLU:O	13:AN:108:ASP:HB2	1.91	0.70
17:AR:23:HIS:NE2	17:AR:27:ALA:CB	2.55	0.70
17:AR:49:LEU:C	17:AR:49:LEU:CD2	2.59	0.70
18:AS:97:LYS:HD2	18:AS:99:ARG:NH1	2.07	0.70
19:AT:34:LYS:HZ1	19:AT:52:VAL:HG12	1.57	0.70
21:AV:21:ALA:O	21:AV:32:PHE:HA	1.90	0.70
34:BA:1034:G:H2'	34:BA:1035:A:H8	1.53	0.70
34:BA:1256:A:O3'	34:BA:1257:U:H4'	1.91	0.70
34:BA:449:C:O2	51:BS:42:ARG:HD2	1.92	0.70
34:BA:718:G:N7	34:BA:719:C:N4	2.39	0.70
34:BA:938:A:O2'	34:BA:939:G:H5'	1.89	0.70
34:BA:956:U:H2'	34:BA:957:U:C6	2.26	0.70
35:BC:62:A:O2'	35:BC:63:C:O5'	2.08	0.70
39:BG:61:LYS:HG3	39:BG:207:TYR:CE1	2.27	0.70
43:BK:10:LEU:N	43:BK:13:ILE:HD12	2.05	0.70
45:BM:15:THR:HG23	45:BM:16:LEU:CD2	2.21	0.70
48:BP:24:GLY:O	48:BP:29:ARG:HD2	1.92	0.70
48:BP:24:GLY:CA	48:BP:66:LEU:HD22	2.22	0.70
51:BS:26:ARG:HH21	51:BS:31:LYS:CE	2.02	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BS:20:VAL:HA	51:BS:36:ILE:CG1	2.22	0.70
10:AK:124:LEU:HG	10:AK:146:THR:HA	1.72	0.70
37:BE:28:PHE:CE1	37:BE:31:TYR:O	2.45	0.70
39:BG:187:ARG:HG3	39:BG:188:LEU:N	2.06	0.70
25:A1:31:GLN:C	25:A1:33:ARG:H	1.92	0.70
25:A1:79:PHE:C	25:A1:83:LEU:HD12	2.12	0.70
27:A3:36:ILE:CB	27:A3:68:VAL:HG11	2.16	0.70
27:A3:68:VAL:HG12	27:A3:71:ASN:HB2	1.72	0.70
27:A3:59:LEU:C	27:A3:81:ILE:HG12	2.12	0.70
29:A5:34:PRO:CG	29:A5:35:GLN:H	2.05	0.70
30:A6:19:GLY:HA3	30:A6:42:PRO:HB3	1.72	0.70
2:AA:1059:G:H5'	9:AI:3:ILE:HD12	1.73	0.70
2:AA:1163:G:H5'	26:A2:23:GLU:OE1	1.90	0.70
2:AA:1199:U:C2'	2:AA:1200:C:O5'	2.40	0.70
2:AA:1264:G:O6	2:AA:1265:A:C6	2.44	0.70
2:AA:1451:C:H2'	2:AA:1457:A:N1	2.07	0.70
2:AA:154:G:H2'	2:AA:155:C:O4'	1.91	0.70
2:AA:1567:A:H4'	2:AA:1568:G:C2	2.26	0.70
2:AA:1771:C:O2'	2:AA:1772:G:O5'	2.06	0.70
2:AA:729:G:N1	2:AA:1775:U:C2	2.59	0.70
2:AA:1811:G:H2'	2:AA:1812:A:H8	1.55	0.70
2:AA:1920:C:H2'	2:AA:1921:G:O5'	1.92	0.70
2:AA:197:A:C2	2:AA:198:C:H1'	2.26	0.70
2:AA:2141:G:N2	2:AA:2150:U:O2'	2.25	0.70
2:AA:233:A:N7	2:AA:234:C:C5	2.60	0.70
2:AA:2378:A:C1'	16:AQ:26:LEU:HD21	2.20	0.70
2:AA:2430:A:H2'	2:AA:2431:U:H5'	1.73	0.70
2:AA:245:G:N2	2:AA:254:G:C1'	2.33	0.70
2:AA:2522:U:O2'	2:AA:2647:U:OP1	2.07	0.70
2:AA:2531:A:H2	2:AA:2658:C:O2	1.75	0.70
2:AA:2745:C:C1'	8:AH:142:GLU:HG3	2.21	0.70
2:AA:2776:A:C1'	2:AA:2778:A:N7	2.55	0.70
2:AA:2853:C:C2'	2:AA:2854:G:H5'	2.21	0.70
2:AA:311:A:H3'	2:AA:312:G:H8	1.56	0.70
2:AA:393:C:O2'	2:AA:394:A:H5'	1.91	0.70
2:AA:499:U:H2'	2:AA:500:G:H5'	1.73	0.70
2:AA:529:A:O2'	2:AA:530:G:H8	1.73	0.70
2:AA:749:C:C2	2:AA:1618:A:C5	2.79	0.70
2:AA:761:A:H8	2:AA:761:A:O5'	1.75	0.70
2:AA:775:G:N2	2:AA:788:A:OP2	2.24	0.70
2:AA:806:C:O2'	2:AA:807:U:H5'	1.90	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:8:A:H61	2:AA:2895:U:H3	1.39	0.70
2:AA:986:C:C3'	2:AA:986:C:C6	2.71	0.70
3:AC:7:TYR:O	3:AC:11:LEU:HD13	1.92	0.70
4:AD:89:ASN:ND2	4:AD:199:ARG:NE	2.33	0.70
4:AD:213:LYS:O	4:AD:215:LYS:N	2.25	0.70
5:AE:199:ALA:HB1	5:AE:312:ARG:O	1.91	0.70
5:AE:217:TRP:O	5:AE:219:VAL:HG23	1.91	0.70
5:AE:201:VAL:H	5:AE:266:LYS:NZ	1.88	0.70
5:AE:317:PRO:HG2	5:AE:320:GLN:CG	2.10	0.70
7:AG:38:GLU:O	7:AG:41:LEU:HB2	1.90	0.70
2:AA:2305:A:H2	7:AG:72:LYS:HE2	1.57	0.70
8:AH:69:SER:O	8:AH:72:ALA:HB3	1.91	0.70
9:AI:13:LEU:HB3	9:AI:17:GLU:CB	2.22	0.70
9:AI:74:ILE:HG12	9:AI:92:VAL:HG21	1.71	0.70
11:AL:18:ALA:O	11:AL:19:THR:HG23	1.91	0.70
18:AS:55:ALA:CA	18:AS:107:LEU:HD12	2.18	0.70
18:AS:36:LEU:HD13	18:AS:48:ALA:CA	2.21	0.70
18:AS:55:ALA:O	18:AS:58:ALA:HB3	1.92	0.70
2:AA:337:C:OP1	20:AU:24:ARG:HB2	1.91	0.70
20:AU:27:LEU:HD13	20:AU:31:LEU:HB2	1.74	0.70
34:BA:101:A:N3	34:BA:102:G:C8	2.60	0.70
2:AA:1920:C:OP1	34:BA:1517:G:C1'	2.40	0.70
34:BA:1522:U:H2'	34:BA:1523:G:H8	1.55	0.70
34:BA:64:G:H4'	34:BA:65:U:C5'	2.21	0.70
34:BA:781:A:C2'	34:BA:782:A:C5'	2.57	0.70
37:BE:109:SER:O	37:BE:112:VAL:N	2.24	0.70
37:BE:115:LEU:O	37:BE:118:LEU:HB2	1.92	0.70
37:BE:115:LEU:HD22	37:BE:149:LEU:CD1	2.21	0.70
39:BG:101:LEU:CD2	39:BG:138:TYR:HB3	2.21	0.70
34:BA:876:G:C1'	43:BK:11:THR:HG21	2.22	0.70
34:BA:1225:A:H5''	48:BP:103:THR:OG1	1.92	0.70
49:BQ:23:ARG:CD	49:BQ:30:ALA:HB2	2.20	0.70
49:BQ:25:VAL:HB	49:BQ:38:GLY:O	1.92	0.70
52:BT:48:GLU:OE2	52:BT:50:LYS:HB2	1.91	0.70
53:BU:70:ILE:CG2	53:BU:74:ARG:HE	2.05	0.70
45:BM:66:ARG:HD3	45:BM:68:HIS:NE2	2.06	0.70
24:A0:84:ALA:HB3	24:A0:85:PRO:HD3	1.72	0.70
25:A1:50:ARG:HH22	26:A2:74:TYR:HA	1.54	0.70
25:A1:7:GLY:O	25:A1:9:VAL:N	2.25	0.70
26:A2:69:ILE:HG23	26:A2:89:ASN:C	2.12	0.70
26:A2:62:GLU:CB	26:A2:96:LEU:HD21	2.22	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:A3:27:GLY:HA2	27:A3:60:PHE:CD2	2.27	0.70
28:A4:65:ASP:O	28:A4:66:SER:C	2.29	0.70
2:AA:1023:U:C2'	2:AA:1024:G:H5'	2.22	0.70
2:AA:1083:U:C5'	9:AI:40:ALA:HB2	2.21	0.70
2:AA:1087:G:N2	2:AA:1103:A:C2'	2.55	0.70
2:AA:1128:A:N6	2:AA:2518:A:C6	2.59	0.70
2:AA:142(A):A:N6	2:AA:1143:A:N6	2.40	0.70
2:AA:1419:A:H1'	2:AA:1578:U:O4	1.92	0.70
2:AA:1469:A:C2	2:AA:1522:G:N2	2.60	0.70
2:AA:1758:G:C6	2:AA:2696:U:H5'	2.26	0.70
2:AA:2259:G:C4	2:AA:2427:C:N4	2.60	0.70
2:AA:2309:A:O4'	2:AA:2309:A:OP2	2.09	0.70
2:AA:2503:A:H4'	2:AA:2504:U:OP1	1.89	0.70
2:AA:252:G:C2	2:AA:253:C:C6	2.80	0.70
2:AA:2653:U:C2	2:AA:2654:A:N6	2.60	0.70
2:AA:294:A:H2'	2:AA:295:G:H5'	1.74	0.70
2:AA:34:C:C2'	2:AA:455:C:H41	2.05	0.70
2:AA:518:G:H4'	18:AS:18:ARG:CZ	2.21	0.70
2:AA:64:A:C2'	2:AA:65:C:H5'	2.22	0.70
2:AA:738:G:H2'	2:AA:739:G:H1'	1.74	0.70
2:AA:72:U:HO2'	2:AA:73:A:P	2.15	0.70
1:AB:52:A:H2'	1:AB:53:A:H8	1.56	0.70
2:AA:2512:C:H5''	5:AE:219:VAL:HG13	1.73	0.70
5:AE:70:VAL:CG2	5:AE:297:LYS:HA	2.21	0.70
6:AF:140:VAL:HB	6:AF:236:THR:CA	2.21	0.70
7:AG:19:GLU:CD	7:AG:135:VAL:HG22	2.12	0.70
8:AH:28:PRO:C	8:AH:30:GLY:N	2.45	0.70
8:AH:37:HIS:HE1	8:AH:67:THR:HG21	1.57	0.70
2:AA:1139:G:OP1	12:AM:19:MET:O	2.09	0.70
12:AM:5:GLU:OE2	12:AM:6:PHE:O	2.10	0.70
15:AP:15:THR:H	15:AP:20:ILE:CD1	2.03	0.70
16:AQ:104:ILE:CG2	16:AQ:109:PRO:HD3	2.15	0.70
20:AU:14:ALA:HB1	20:AU:15:PRO:HD2	1.72	0.70
20:AU:77:VAL:HA	20:AU:89:ARG:HH11	1.54	0.70
21:AV:123:VAL:HG12	21:AV:161:ALA:H	1.55	0.70
36:B1:55:U:O2	36:B1:56:A:N7	2.25	0.70
34:BA:1071:C:N4	34:BA:1084:G:N2	2.40	0.70
34:BA:1230:C:H2'	34:BA:1231:G:H5'	1.74	0.70
34:BA:184:G:C4'	34:BA:224:C:H4'	2.22	0.70
34:BA:279:A:N3	34:BA:281:G:N2	2.40	0.70
34:BA:452:A:N6	34:BA:480:U:C2	2.59	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:520:A:N7	34:BA:521:G:C8	2.60	0.70
34:BA:646:U:C2	34:BA:647:C:C5	2.80	0.70
35:BB:49:C:N4	35:BB:65:G:N1	2.36	0.70
34:BA:1339:A:O2'	35:BC:40:C:O2	2.08	0.70
37:BE:97:TRP:CE2	37:BE:173:ALA:HB2	2.26	0.70
38:BF:60:ALA:CB	45:BM:92:THR:O	2.39	0.70
39:BG:192:GLU:H	39:BG:192:GLU:CD	1.94	0.70
40:BH:107:ARG:O	40:BH:108:ALA:C	2.30	0.70
41:BI:45:LEU:CG	41:BI:59:TYR:HD1	2.05	0.70
41:BI:95:GLU:CD	41:BI:95:GLU:H	1.92	0.70
42:BJ:146:GLU:O	42:BJ:149:ARG:HB2	1.91	0.70
43:BK:104:ARG:HG3	43:BK:138:TRP:CE3	2.27	0.70
34:BA:590:C:H5''	43:BK:30:ARG:CG	2.21	0.70
48:BP:39:ILE:HG23	48:BP:55:ARG:NH2	2.07	0.70
34:BA:760:G:N1	52:BT:105:ALA:HB2	2.04	0.70
10:AK:115:ILE:CG2	10:AK:116:GLU:H	2.03	0.70
10:AK:62:LEU:O	10:AK:66:LYS:HE2	1.91	0.70
26:A2:35:LEU:N	26:A2:63:HIS:HE1	1.89	0.70
2:AA:973:A:N1	26:A2:81:ARG:CG	2.55	0.70
26:A2:74:TYR:CE2	26:A2:88:GLN:NE2	2.59	0.70
31:A7:22:MET:O	31:A7:28:ARG:HG3	1.92	0.70
2:AA:682:G:O3'	31:A7:26:SER:HB2	1.91	0.70
2:AA:1189:A:C2'	2:AA:1190:G:H5'	2.22	0.70
2:AA:1292:U:H2'	2:AA:1293:C:C6	2.26	0.70
2:AA:131:G:N2	2:AA:149:A:C6	2.60	0.70
2:AA:1449:A:H5'	2:AA:1528:A:C2	2.26	0.70
2:AA:1710:C:O2'	2:AA:1711:C:H5'	1.92	0.70
2:AA:1884:A:C8	2:AA:1884:A:OP2	2.45	0.70
2:AA:207:A:H2	2:AA:208:C:H1'	1.55	0.70
2:AA:2125:G:H22	2:AA:2174:C:H42	1.27	0.70
2:AA:2210:G:C6	4:AD:148:GLY:HA3	2.26	0.70
2:AA:2250:G:H3'	2:AA:2250:G:H8	1.57	0.70
2:AA:324:A:C8	2:AA:340:A:H1'	2.27	0.70
2:AA:326:G:H2'	2:AA:327:G:C8	2.25	0.70
2:AA:476:G:O4'	2:AA:505:A:H2	1.75	0.70
2:AA:603:A:H61	2:AA:624:C:N4	1.90	0.70
2:AA:648:G:C4	2:AA:649:G:N7	2.60	0.70
2:AA:876:C:N3	2:AA:901:A:N6	2.40	0.70
2:AA:898:C:H5'	2:AA:899:A:OP2	1.92	0.70
1:AB:70:C:O2'	1:AB:71:C:H5'	1.91	0.70
4:AD:104:ILE:O	4:AD:106:PRO:HD2	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:130:PRO:O	4:AD:134:ILE:HG13	1.91	0.70
4:AD:90:ILE:HG23	4:AD:103:ILE:O	1.92	0.70
5:AE:219:VAL:HG11	5:AE:235:ILE:HD13	1.72	0.70
5:AE:196:GLY:HA2	5:AE:297:LYS:HZ3	1.57	0.70
7:AG:19:GLU:OE1	7:AG:19:GLU:O	2.09	0.70
2:AA:2313:C:OP1	7:AG:51:ARG:CB	2.40	0.70
8:AH:10:ILE:O	8:AH:14:VAL:HB	1.91	0.70
2:AA:2093:G:H4'	10:AK:29:PHE:CE1	2.25	0.70
10:AK:31:PHE:CZ	10:AK:36:ALA:CB	2.74	0.70
11:AL:102:ARG:O	11:AL:105:ILE:HB	1.92	0.70
12:AM:54:VAL:HA	12:AM:135:ILE:HG13	1.72	0.70
12:AM:54:VAL:HA	12:AM:135:ILE:CG1	2.22	0.70
12:AM:84:ARG:CB	12:AM:98:PHE:CE2	2.73	0.70
2:AA:1996:C:P	13:AN:31:ARG:HH12	2.15	0.70
13:AN:5:GLU:HB3	13:AN:20:LEU:HG	1.73	0.70
19:AT:44:GLN:C	19:AT:44:GLN:CD	2.51	0.70
19:AT:42:GLU:HB2	19:AT:49:VAL:HG23	1.74	0.70
20:AU:102:ASP:O	20:AU:108:ARG:HD3	1.92	0.70
21:AV:103:ARG:HG2	21:AV:103:ARG:HH11	1.56	0.70
21:AV:74:ARG:O	21:AV:76:ARG:N	2.25	0.70
34:BA:1090:U:O2'	34:BA:1091:U:H5'	1.92	0.70
34:BA:10:A:O2'	34:BA:11:G:H5'	1.92	0.70
34:BA:129(A):G:O6	34:BA:190(D):U:H4'	1.92	0.70
34:BA:287:U:O2'	34:BA:288:A:H5'	1.91	0.70
34:BA:726:C:N4	34:BA:731:G:N1	2.39	0.70
34:BA:921:U:HO2'	34:BA:922:G:H5'	1.56	0.70
35:BC:21:A:N1	35:BC:48:C:C5	2.60	0.70
35:BC:34:G:H2'	35:BC:35:A:C4'	2.22	0.70
39:BG:120:LEU:CD1	39:BG:125:HIS:HB2	2.21	0.70
39:BG:58:LEU:CD1	39:BG:59:ARG:NH1	2.45	0.70
40:BH:105:VAL:HG12	40:BH:106:PRO:CD	2.21	0.70
45:BM:27:ALA:HB2	45:BM:85:LEU:CD1	2.20	0.70
48:BP:55:ARG:HH21	48:BP:56:LEU:HD21	1.57	0.70
52:BT:59:ILE:CD1	52:BT:72:ARG:O	2.40	0.70
35:BB:28:C:O2'	35:BB:29:A:C5'	2.37	0.70
35:BB:11:C:C2	35:BB:12:U:C5	2.79	0.70
47:BO:126:LYS:HZ3	47:BO:128:ALA:CB	1.96	0.70
25:A1:42:ALA:O	25:A1:45:TYR:HB2	1.90	0.70
25:A1:63:GLN:HA	25:A1:66:ASN:ND2	2.07	0.70
28:A4:7:PRO:HG2	28:A4:60:ASN:HB3	1.74	0.70
30:A6:2:ALA:N	30:A6:11:LYS:HD2	2.07	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:A6:40:TYR:O	30:A6:47:HIS:CA	2.37	0.70
30:A6:8:ILE:O	30:A6:9:ILE:HG12	1.91	0.70
2:AA:1208:C:N4	2:AA:1209:G:O6	2.25	0.70
2:AA:1203:G:C1'	2:AA:1241:A:N1	2.46	0.70
2:AA:1358:G:H2'	2:AA:1371:G:N2	2.06	0.70
2:AA:1524:G:C5	2:AA:1525:G:N7	2.60	0.70
2:AA:1388:G:HO2'	2:AA:1525:G:H5'	1.55	0.70
2:AA:1529:A:H62	2:AA:1542:G:N2	1.89	0.70
2:AA:1787:A:H2'	2:AA:1788:C:C5	2.27	0.70
2:AA:1798:U:O2'	2:AA:1799:G:H5'	1.92	0.70
2:AA:186:G:O2'	2:AA:187:G:H5'	1.92	0.70
2:AA:1914:C:P	2:AA:1916:A:H62	2.14	0.70
2:AA:1912:A:N7	2:AA:1918:A:C2	2.59	0.70
2:AA:1932:A:C2'	2:AA:1932:A:N3	2.54	0.70
2:AA:2057:A:H2'	2:AA:2058:A:O5'	1.92	0.70
2:AA:2097:C:N4	2:AA:2193:G:C6	2.60	0.70
2:AA:2182:G:H2'	2:AA:2183:C:C5	2.27	0.70
2:AA:245:G:H1	2:AA:253:C:N4	1.90	0.70
2:AA:2484:G:O2'	2:AA:2485:G:H5'	1.92	0.70
2:AA:2556:C:H2'	2:AA:2557:G:O4'	1.92	0.70
2:AA:2595:G:N2	2:AA:2597:G:O5'	2.25	0.70
2:AA:2617:C:C6	2:AA:2617:C:OP2	2.45	0.70
2:AA:280:C:O2'	2:AA:281:G:O5'	2.07	0.70
2:AA:764:A:C6	2:AA:781:A:C2	2.80	0.70
2:AA:976:C:O2'	2:AA:977:G:H5'	1.92	0.70
6:AF:237:GLU:O	6:AF:240:LEU:N	2.25	0.70
6:AF:23:GLU:O	6:AF:24:THR:O	2.09	0.70
6:AF:3:ALA:HB2	6:AF:18:LEU:HD23	1.72	0.70
8:AH:65:GLY:O	8:AH:68:ARG:HB2	1.91	0.70
9:AI:73:VAL:HG11	9:AI:123:ALA:HB2	1.74	0.70
2:AA:1085:A:OP1	9:AI:35:ALA:N	2.24	0.70
9:AJ:9:ALA:O	9:AJ:13:LEU:HG	1.92	0.70
10:AK:39:ALA:O	10:AK:40:THR:O	2.09	0.70
11:AL:73:PRO:CB	11:AL:78:LEU:HD21	2.22	0.70
12:AM:25:GLN:O	12:AM:26:VAL:C	2.28	0.70
2:AA:557:U:O3'	12:AM:92:GLN:HB3	1.92	0.70
15:AP:82:LYS:O	15:AP:123:ILE:O	2.10	0.70
15:AP:54:VAL:HG12	15:AP:56:ILE:CD1	2.21	0.70
20:AU:99:THR:HG22	20:AU:100:ASP:N	2.05	0.70
22:AW:6:GLN:O	22:AW:9:ARG:N	2.25	0.70
34:BA:1057:G:H2'	34:BA:1058:G:H8	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:284:G:H2'	34:BA:285:G:C8	2.25	0.70
34:BA:340:U:C2	34:BA:341:C:C5	2.80	0.70
34:BA:520:A:H3'	34:BA:521:G:C5'	2.16	0.70
34:BA:573:A:H3'	34:BA:573:A:OP2	1.91	0.70
34:BA:597:G:N1	34:BA:643:C:N4	2.40	0.70
34:BA:622:A:C8	34:BA:623:C:C5	2.80	0.70
34:BA:874:G:N2	34:BA:875:C:C1'	2.54	0.70
37:BE:219:VAL:O	37:BE:223:ILE:HG13	1.91	0.70
37:BE:234:PRO:O	37:BE:238:LEU:HD21	1.91	0.70
38:BF:95:THR:HB	38:BF:97:LYS:HG2	1.74	0.70
39:BG:102:ASP:HB3	39:BG:121:VAL:HG21	1.73	0.70
39:BG:173:TRP:HD1	39:BG:185:PHE:CE2	2.09	0.70
41:BI:50:TYR:CE2	41:BI:52:ILE:HD11	2.24	0.70
41:BI:79:LEU:O	41:BI:80:ARG:C	2.28	0.70
44:BL:118:LYS:C	44:BL:120:ARG:H	1.94	0.70
34:BA:970:C:N3	48:BP:126:LYS:HD3	2.07	0.70
48:BP:16:ASP:OD2	48:BP:17:VAL:N	2.24	0.70
50:BR:39:LEU:O	50:BR:42:HIS:HB3	1.92	0.70
50:BR:54:ARG:O	50:BR:57:LEU:HB2	1.92	0.70
34:BA:323:U:H5''	55:BW:26:ASN:OD1	1.92	0.70
35:BB:9:A:N3	35:BB:45:G:C5	2.60	0.70
2:AA:1114:G:N2	2:AA:1115:G:C1'	2.54	0.70
2:AA:29:U:H5'	25:A1:11:ARG:HH22	1.57	0.69
25:A1:50:ARG:NH2	26:A2:74:TYR:HD2	1.88	0.69
2:AA:2577:A:C2	29:A5:5:PRO:HB3	2.24	0.69
30:A6:45:LYS:C	30:A6:46:LYS:HG2	2.10	0.69
2:AA:1519:G:C2	2:AA:1520:U:H1'	2.27	0.69
2:AA:1528:A:N6	2:AA:1543:A:N7	2.40	0.69
2:AA:1610:A:H5''	2:AA:1611:C:OP2	1.92	0.69
2:AA:1926:U:C4	2:AA:1928:A:OP2	2.45	0.69
2:AA:1938:A:O2'	2:AA:1939:U:P	2.50	0.69
2:AA:1944:U:H1'	2:AA:1955:U:O4'	1.92	0.69
2:AA:1996:C:H6	2:AA:1996:C:C5'	2.04	0.69
2:AA:2188:C:H2'	2:AA:2189:U:C6	2.26	0.69
2:AA:226:G:N2	2:AA:227:A:N3	2.39	0.69
2:AA:2436:G:O2'	2:AA:2437:U:H5'	1.92	0.69
2:AA:2507:C:N4	2:AA:2582:G:H1	1.88	0.69
2:AA:2695:C:H2'	2:AA:2696:U:C5	2.26	0.69
2:AA:265:A:N1	2:AA:281:G:OP1	2.25	0.69
2:AA:2872:G:N2	2:AA:2873:A:C6	2.60	0.69
2:AA:595:C:N3	2:AA:662:G:N2	2.38	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:68:G:C4	2:AA:69:C:C5	2.80	0.69
2:AA:92:G:H2'	2:AA:93:C:H6	1.57	0.69
4:AD:142:ASN:ND2	4:AD:190:THR:OG1	2.25	0.69
4:AD:66:PHE:CE2	4:AD:150:GLY:HA3	2.26	0.69
5:AE:175:ASP:OD1	5:AE:178:LEU:HD11	1.92	0.69
5:AE:193:PHE:HE2	5:AE:199:ALA:CB	2.05	0.69
6:AF:11:ASN:HD21	6:AF:160:LEU:CD2	2.05	0.69
8:AH:108:TYR:O	8:AH:109:SER:HB3	1.90	0.69
8:AH:17:THR:HB	8:AH:24:THR:OG1	1.91	0.69
9:AI:46:GLY:N	9:AJ:19:ALA:HB1	2.07	0.69
10:AK:29:PHE:HD2	10:AK:30:LEU:CD2	2.04	0.69
10:AK:29:PHE:CD2	10:AK:30:LEU:CG	2.75	0.69
11:AL:116:LEU:HD13	11:AL:117:ASN:N	2.06	0.69
11:AL:96:ILE:O	11:AL:97:VAL:HG13	1.91	0.69
12:AM:46:ILE:N	12:AM:131:THR:OG1	2.25	0.69
12:AM:94:GLY:O	12:AM:98:PHE:CD1	2.44	0.69
12:AM:84:ARG:CA	12:AM:98:PHE:CE2	2.75	0.69
18:AS:73:ALA:CB	18:AS:106:ILE:HD12	2.20	0.69
18:AS:34:ASN:O	18:AS:37:ARG:HB3	1.92	0.69
19:AT:32:ALA:HA	19:AT:36:GLU:HG3	1.74	0.69
20:AU:47:THR:CG2	20:AU:100:ASP:HB2	2.21	0.69
21:AV:103:ARG:HD3	21:AV:103:ARG:H	1.54	0.69
34:BA:1305:G:H21	34:BA:1331:G:H2'	1.54	0.69
34:BA:504:C:N4	34:BA:541:G:H1	1.89	0.69
34:BA:770:C:O2'	34:BA:771:G:H5'	1.91	0.69
34:BA:789:U:H2'	34:BA:790:A:H3'	1.72	0.69
34:BA:999:C:N3	34:BA:1042:G:O6	2.25	0.69
35:BC:63:C:H2'	35:BC:64:A:H8	1.56	0.69
40:BH:31:LEU:HD12	40:BH:129:ILE:HG12	1.74	0.69
34:BA:671:G:OP1	41:BI:77:ARG:NH2	2.25	0.69
34:BA:1298:C:H3'	42:BJ:114:ARG:HH12	1.55	0.69
43:BK:104:ARG:NH2	43:BK:138:TRP:CH2	2.59	0.69
43:BK:89:PRO:HA	43:BK:92:ARG:NE	2.06	0.69
44:BL:78:LYS:O	44:BL:81:ILE:HB	1.92	0.69
46:BN:27:ASN:HA	46:BN:55:LYS:O	1.92	0.69
46:BN:72:ALA:O	46:BN:77:MET:HB2	1.91	0.69
47:BO:38:THR:HG22	47:BO:57:LYS:CB	2.22	0.69
1:AB:35:U:C5	1:AB:36:C:H5	2.09	0.69
27:A3:24:LYS:HG2	27:A3:56:ASP:OD1	1.92	0.69
30:A6:34:LYS:HA	30:A6:53:LYS:HZ1	1.55	0.69
31:A7:21:ARG:HB3	31:A7:31:LEU:HD11	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:A9:2:LYS:N	33:A9:2:LYS:NZ	2.33	0.69
2:AA:1084:A:O5'	9:AI:38:ALA:CA	2.39	0.69
2:AA:1086:A:H3'	2:AA:1087:G:H5'	1.73	0.69
2:AA:1840:G:N2	2:AA:1902:C:N3	2.40	0.69
2:AA:1916:A:P	2:AA:1916:A:H8	2.15	0.69
2:AA:1905:C:H2'	2:AA:1930:G:C6	2.26	0.69
2:AA:530:G:N2	2:AA:2021:C:H5''	2.03	0.69
2:AA:2274:A:N7	2:AA:2276:G:C8	2.59	0.69
2:AA:2415:G:N2	2:AA:2416:C:C1'	2.55	0.69
2:AA:247:G:C5	2:AA:249:C:O2	2.45	0.69
2:AA:248:G:N2	2:AA:2431:U:O4'	2.24	0.69
2:AA:2542:A:OP2	2:AA:2542:A:O4'	2.09	0.69
2:AA:242:G:H2'	2:AA:254:G:N1	2.07	0.69
2:AA:2575:C:O2	5:AE:237:ASN:ND2	2.25	0.69
2:AA:2579:C:H2'	2:AA:2580:U:C5'	2.22	0.69
2:AA:2581:G:C6	2:AA:2610:C:C2'	2.72	0.69
2:AA:2805:G:H2'	2:AA:2807:G:O4'	1.92	0.69
2:AA:281:G:O5'	2:AA:281:G:C8	2.45	0.69
2:AA:296:C:N3	2:AA:344:G:C2	2.58	0.69
2:AA:48:G:O5'	2:AA:48:G:H8	1.73	0.69
2:AA:522:G:H2'	2:AA:523:C:O4'	1.91	0.69
2:AA:526:A:H4'	2:AA:527:C:OP1	1.91	0.69
2:AA:574:C:H4'	2:AA:575:A:C5'	2.21	0.69
2:AA:585:G:C2'	2:AA:586:A:C8	2.75	0.69
2:AA:775:G:O2'	2:AA:794:G:C8	2.45	0.69
1:AB:6:C:H2'	1:AB:7:G:C8	2.26	0.69
4:AD:140:VAL:CG2	4:AD:191:VAL:HG12	2.22	0.69
5:AE:199:ALA:CB	5:AE:312:ARG:O	2.40	0.69
6:AF:195:VAL:O	6:AF:236:THR:HG23	1.91	0.69
6:AF:55:ARG:CA	6:AF:79:ARG:HH21	2.05	0.69
6:AF:83:ALA:HB2	6:AF:87:ARG:NH2	2.06	0.69
11:AL:110:LYS:O	11:AL:113:MET:HG2	1.93	0.69
16:AQ:32:PRO:CD	16:AQ:100:ALA:HA	2.22	0.69
18:AS:69:LEU:HD23	18:AS:109:GLU:HB3	1.71	0.69
18:AS:97:LYS:CB	18:AS:99:ARG:HD3	2.22	0.69
21:AV:100:THR:HG22	21:AV:137:ASP:OD1	1.92	0.69
22:AW:45:ARG:NH2	22:AW:49:LEU:HG	2.06	0.69
34:BA:1216:G:H2'	34:BA:1217:C:H6	1.52	0.69
34:BA:1228:C:O2	34:BA:1228:C:H2'	1.91	0.69
34:BA:250:A:H4'	34:BA:251:G:O5'	1.92	0.69
34:BA:43:C:C2	34:BA:44:G:C8	2.80	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:607:A:H2'	34:BA:608:A:H5'	1.72	0.69
34:BA:893:C:H2'	34:BA:894:G:H8	1.55	0.69
34:BA:944:G:H3'	34:BA:945:G:H5'	1.75	0.69
35:BB:53:G:O2'	35:BB:54:U:C5'	2.40	0.69
35:BC:70:C:H2'	35:BC:71:G:C8	2.16	0.69
39:BG:170:VAL:CG2	39:BG:176:LEU:HB3	2.21	0.69
39:BG:140:VAL:CB	39:BG:185:PHE:HD1	2.03	0.69
40:BH:104:ALA:N	40:BH:107:ARG:HH12	1.90	0.69
40:BH:92:LYS:O	40:BH:118:ILE:HG22	1.91	0.69
42:BJ:26:PHE:HE1	42:BJ:105:VAL:HG22	1.57	0.69
42:BJ:9:VAL:HG21	42:BJ:94:ARG:HD3	1.74	0.69
34:BA:796:C:OP1	46:BN:123:LYS:HD3	1.91	0.69
47:BO:28:LYS:HE3	47:BO:33:ARG:HH12	1.57	0.69
47:BO:45:PRO:HD3	47:BO:51:ALA:O	1.91	0.69
48:BP:19:LEU:HD12	48:BP:20:THR:N	2.07	0.69
50:BR:33:THR:HG23	50:BR:63:ARG:HH12	1.56	0.69
28:A4:33:VAL:CG1	28:A4:34:ASP:N	2.55	0.69
31:A7:22:MET:HA	31:A7:28:ARG:HG2	1.73	0.69
2:AA:1065:U:C2'	2:AA:1066:U:H5''	2.22	0.69
2:AA:1141:U:H5'	2:AA:1141:U:C6	2.27	0.69
2:AA:1229:G:H2'	2:AA:1230:C:O4'	1.92	0.69
2:AA:1717:G:N1	2:AA:1742:C:C2	2.58	0.69
2:AA:1956:U:H5''	2:AA:1957:C:OP2	1.91	0.69
2:AA:2212:A:N3	2:AA:2213:U:H5''	2.07	0.69
2:AA:2286:A:H5'	2:AA:2287:A:C5'	2.23	0.69
2:AA:2492:U:H2'	2:AA:2493:U:O5'	1.91	0.69
2:AA:2603:G:H8	2:AA:2603:G:H5'	1.56	0.69
2:AA:609:A:N1	2:AA:619:G:N3	2.40	0.69
2:AA:635:C:O2'	2:AA:636:G:H5'	1.92	0.69
2:AA:71:A:H5''	2:AA:72:U:H3'	1.73	0.69
2:AA:774:A:O2'	2:AA:775:G:C8	2.44	0.69
2:AA:890:A:H4'	2:AA:892:G:H5'	1.73	0.69
2:AA:984:A:H5''	2:AA:985:C:H41	1.58	0.69
5:AE:217:TRP:CE2	5:AE:251:PRO:HG3	2.26	0.69
6:AF:151:GLN:OE1	6:AF:154:VAL:HG21	1.92	0.69
8:AH:10:ILE:HG23	8:AH:14:VAL:HG11	1.73	0.69
9:AI:106:VAL:HG11	9:AI:114:ILE:HD11	1.73	0.69
9:AI:39:VAL:HG22	9:AJ:39:VAL:HG13	1.74	0.69
13:AN:1:MET:H2	13:AN:32:TYR:CB	2.06	0.69
14:AO:76:LEU:CD1	14:AO:96:VAL:HG12	2.21	0.69
15:AP:152:SER:OG	15:AP:153:PRO:HD2	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AQ:34:LEU:HD11	16:AQ:102:LEU:HA	1.73	0.69
17:AR:6:CYS:SG	17:AR:31:PHE:CD2	2.85	0.69
18:AS:75:TYR:CE1	18:AS:104:THR:OG1	2.45	0.69
18:AS:82:LEU:CD2	18:AS:98:LYS:HB2	2.22	0.69
20:AU:101:LEU:HD21	20:AU:112:LEU:HD11	1.74	0.69
21:AV:159:THR:HG23	21:AV:160:LEU:H	1.56	0.69
2:AA:932:G:H5'	23:AX:24:LYS:HZ1	1.57	0.69
34:BA:121:C:N4	34:BA:236:G:C8	2.58	0.69
34:BA:272:C:H2'	34:BA:273:A:H8	1.57	0.69
34:BA:280:C:H1'	52:BT:38:ARG:CD	2.22	0.69
34:BA:29:G:C6	34:BA:555:C:N4	2.61	0.69
34:BA:421:U:C2	38:BF:127:ARG:NH2	2.61	0.69
34:BA:499:A:H4'	34:BA:500:G:OP1	1.91	0.69
34:BA:658:G:H2'	34:BA:659:U:O4'	1.91	0.69
34:BA:877:C:H2'	34:BA:877:C:O2	1.92	0.69
37:BE:20:GLU:HG3	37:BE:189:ASP:HB2	1.74	0.69
41:BI:44:GLY:O	41:BI:59:TYR:HA	1.92	0.69
42:BJ:47:CYS:HA	42:BJ:50:ILE:CD1	2.21	0.69
46:BN:85:ARG:HE	46:BN:111:ASP:CB	2.04	0.69
35:BB:26:G:N2	35:BB:27:C:O4'	2.24	0.69
35:BB:39:U:H6	35:BB:39:U:O5'	1.75	0.69
36:B1:25:U:O4	36:B1:27:G:H3'	1.91	0.69
48:BP:101:GLN:OE1	48:BP:101:GLN:N	2.21	0.69
25:A1:61:TRP:O	25:A1:62:ILE:C	2.30	0.69
26:A2:50:ASP:O	26:A2:53:LYS:HB2	1.91	0.69
29:A5:6:VAL:O	29:A5:6:VAL:HG12	1.91	0.69
32:A8:41:ILE:O	32:A8:43:GLY:N	2.25	0.69
2:AA:1060:U:OP1	11:AL:75:ALA:N	2.25	0.69
2:AA:1160:G:C5	2:AA:1161:C:C4	2.80	0.69
2:AA:1171:G:H2'	2:AA:1173:G:H4'	1.73	0.69
2:AA:1309:G:O2'	2:AA:1310:G:H5'	1.91	0.69
2:AA:134:C:C2	2:AA:135:G:C8	2.80	0.69
2:AA:1389:G:C2	2:AA:1390:U:C2	2.80	0.69
2:AA:1431:U:H2'	2:AA:1432:C:O4'	1.92	0.69
2:AA:1472:A:C2	2:AA:1519:G:N1	2.60	0.69
2:AA:1534:G:N3	2:AA:1534:G:C2'	2.55	0.69
2:AA:153:C:H42	2:AA:173:G:H1	1.38	0.69
2:AA:1604:C:O2'	2:AA:1605:C:C5'	2.34	0.69
2:AA:1726:G:C2	2:AA:1727:U:O4'	2.46	0.69
2:AA:1809:A:H5''	2:AA:1810:A:C2	2.27	0.69
2:AA:1941:C:H2'	2:AA:1942:C:O5'	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2093:G:H1	2:AA:2196:C:H42	1.39	0.69
2:AA:370:G:C2	2:AA:424:G:N7	2.60	0.69
2:AA:464:U:C6	2:AA:464:U:O5'	2.45	0.69
2:AA:782:A:C2	4:AD:229:MET:SD	2.86	0.69
2:AA:792:G:O2'	2:AA:793:A:P	2.50	0.69
2:AA:1818:U:H3'	4:AD:155:ARG:HG3	1.74	0.69
6:AF:37:ALA:CB	6:AF:102:LEU:HD12	2.20	0.69
6:AF:90:HIS:N	6:AF:91:PRO:CD	2.54	0.69
8:AH:102:LEU:CD2	8:AH:114:ILE:HB	2.22	0.69
8:AH:15:THR:CG2	8:AH:26:LYS:O	2.38	0.69
9:AJ:115:LYS:HD3	9:AJ:127:LEU:HD22	1.72	0.69
12:AM:63:ILE:HG21	12:AM:71:TYR:OH	1.91	0.69
12:AM:24:SER:HB3	12:AM:86:MET:CE	2.22	0.69
13:AN:112:MET:HA	13:AN:115:ILE:CD1	2.21	0.69
15:AP:11:LYS:HB3	15:AP:12:PRO:CD	2.22	0.69
15:AP:64:ALA:O	15:AP:67:ALA:CB	2.39	0.69
16:AQ:49:THR:HG23	16:AQ:52:PRO:HD2	1.75	0.69
21:AV:39:PHE:HA	21:AV:43:PHE:CE2	2.27	0.69
21:AV:52:PHE:C	21:AV:65:LEU:HD11	2.12	0.69
34:BA:1326:C:H2'	34:BA:1327:C:C6	2.27	0.69
34:BA:1345:U:O2	34:BA:1377:A:N6	2.25	0.69
34:BA:264:U:H2'	34:BA:265:G:H5'	1.73	0.69
34:BA:475:G:H2'	34:BA:476:G:H8	1.54	0.69
34:BA:21:G:N2	34:BA:915:A:N6	2.40	0.69
37:BE:167:PRO:HG3	37:BE:192:SER:HB3	1.75	0.69
37:BE:34:ALA:HB1	37:BE:36:ARG:HH11	1.57	0.69
38:BF:84:ILE:CA	38:BF:87:LEU:HD12	2.15	0.69
39:BG:120:LEU:CG	39:BG:125:HIS:HB2	2.22	0.69
43:BK:97:VAL:HG13	43:BK:98:LYS:HZ2	1.56	0.69
47:BO:101:VAL:O	47:BO:104:VAL:CG2	2.40	0.69
47:BO:53:ARG:NH1	47:BO:53:ARG:HG2	2.06	0.69
51:BS:5:ARG:NH1	51:BS:24:ALA:HA	2.05	0.69
53:BU:59:SER:H	53:BU:62:GLU:HB2	1.57	0.69
35:BB:41:U:H2'	35:BB:42:G:C1'	2.23	0.69
37:BE:28:PHE:HE1	37:BE:31:TYR:HB3	1.57	0.69
25:A1:27:SER:C	25:A1:29:SER:N	2.43	0.69
25:A1:94:VAL:HG12	25:A1:98:ILE:HD13	1.74	0.69
26:A2:39:PHE:H	26:A2:58:ALA:HB2	1.55	0.69
28:A4:6:HIS:HB2	28:A4:56:VAL:HG22	1.75	0.69
18:AS:19:LEU:HD13	29:A5:25:LEU:CD2	2.22	0.69
2:AA:1022:G:H5''	12:AM:56:LYS:NZ	2.08	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1128:A:C6	2:AA:2518:A:N6	2.57	0.69
2:AA:1241:A:O2'	2:AA:1242:A:N7	2.25	0.69
2:AA:1245:G:C2'	2:AA:1246:A:H5'	2.21	0.69
2:AA:583:G:H1	2:AA:1257:C:H42	1.38	0.69
2:AA:1410:G:H2'	2:AA:1411:C:C6	2.27	0.69
2:AA:1473:G:H2'	2:AA:1474:C:H6	1.56	0.69
2:AA:1543:A:H5'	2:AA:1544:C:H5	1.56	0.69
2:AA:1339:G:N2	2:AA:1603:A:H8	1.90	0.69
2:AA:1690:A:C6	2:AA:1697:G:N2	2.58	0.69
2:AA:1742:C:C4	2:AA:1743:G:N7	2.60	0.69
2:AA:1785:A:C8	2:AA:1785:A:H3'	2.27	0.69
2:AA:1827:C:O2	2:AA:1828:G:O4'	2.09	0.69
2:AA:1879:C:H2'	2:AA:1880:C:H6	1.55	0.69
2:AA:1957:C:O2'	2:AA:1985:G:H1'	1.92	0.69
2:AA:2042:A:O2'	2:AA:2043:C:C5'	2.39	0.69
2:AA:206:U:O2'	2:AA:207:A:H5'	1.92	0.69
2:AA:2194:G:C6	2:AA:2195:C:N4	2.60	0.69
2:AA:2290:G:H1	2:AA:2342:C:N4	1.90	0.69
2:AA:2348:U:C4	2:AA:2382:G:N2	2.60	0.69
2:AA:248:G:N2	2:AA:2431:U:C4'	2.54	0.69
2:AA:2507:C:C2	2:AA:2583:G:N2	2.61	0.69
2:AA:2893:G:H2'	2:AA:2893:G:N3	2.06	0.69
2:AA:360:G:H2'	2:AA:361:G:O4'	1.92	0.69
2:AA:360:G:O2'	2:AA:361:G:H5'	1.93	0.69
2:AA:586:A:N1	2:AA:810:U:H5'	2.07	0.69
2:AA:666:G:O2'	2:AA:667:U:O5'	2.10	0.69
2:AA:673:C:H5'	6:AF:81:PRO:HB2	1.74	0.69
2:AA:783:A:H2'	2:AA:784:A:C5'	2.22	0.69
2:AA:912:C:H2'	2:AA:913:U:H5'	1.74	0.69
2:AA:928:G:H2'	2:AA:929:G:N7	2.06	0.69
2:AA:2123:G:H22	3:AC:217:THR:HG23	1.58	0.69
3:AC:95:GLY:HA3	3:AC:99:ILE:HG13	1.74	0.69
8:AH:114:ILE:HG13	8:AH:147:ILE:CD1	2.20	0.69
8:AH:51:VAL:HG22	8:AH:68:ARG:CG	2.21	0.69
9:AI:15:VAL:HG21	9:AI:49:ALA:HA	1.74	0.69
9:AJ:60:ASP:N	9:AJ:128:LYS:HE3	2.08	0.69
12:AM:44:ALA:CB	12:AM:132:LEU:HD22	2.23	0.69
15:AP:94:ARG:CG	15:AP:107:LYS:O	2.37	0.69
18:AS:72:LYS:HB3	18:AS:106:ILE:CG2	2.22	0.69
18:AS:18:ARG:HG3	18:AS:76:VAL:CG1	2.22	0.69
20:AU:73:HIS:HE1	20:AU:90:PRO:HA	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:72:U:H1'	22:AW:54:ALA:HA	1.75	0.69
34:BA:1002:G:C2	34:BA:1003:G:H1'	2.28	0.69
34:BA:1347:G:N2	34:BA:1373:G:C4	2.61	0.69
34:BA:1353:G:OP1	56:BX:10:ARG:NH2	2.24	0.69
34:BA:1378:C:O2	34:BA:1378:C:C2'	2.40	0.69
34:BA:1401:G:O2'	34:BA:1402:C:H5'	1.91	0.69
34:BA:1421:G:O2'	34:BA:1422:G:H5'	1.92	0.69
34:BA:1535:C:N3	36:B1:55:U:N3	2.41	0.69
34:BA:372:C:O2	34:BA:387:U:O4	2.10	0.69
34:BA:421:U:C5'	34:BA:422:C:H5	2.04	0.69
34:BA:25:C:C4	34:BA:558:G:N2	2.60	0.69
34:BA:568:G:C6	34:BA:569:C:N4	2.60	0.69
34:BA:758:G:H4'	34:BA:880:C:H4'	1.73	0.69
34:BA:663:A:C5'	34:BA:836:G:OP1	2.32	0.69
35:BB:18:G:C2'	35:BB:19:G:O5'	2.40	0.69
35:BC:72:C:O2'	35:BC:73:A:O4'	2.09	0.69
37:BE:25:ASN:HD21	37:BE:27:LYS:CB	2.05	0.69
39:BG:128:VAL:O	39:BG:130:GLY:N	2.25	0.69
39:BG:19:LEU:C	39:BG:21:LEU:HG	2.12	0.69
39:BG:98:GLU:HA	39:BG:103:ASN:ND2	2.07	0.69
44:BL:16:ARG:HD3	44:BL:64:THR:CB	2.22	0.69
34:BA:36:C:H5''	47:BO:122:THR:O	1.92	0.69
48:BP:108:ARG:NH1	48:BP:111:LYS:HB2	2.08	0.69
51:BS:1:MET:C	51:BS:1:MET:HE3	2.12	0.69
52:BT:45:HIS:CE1	52:BT:47:PRO:HG3	2.28	0.69
10:AK:81:ALA:O	10:AK:147:GLU:HA	1.93	0.69
35:BB:22:G:N3	35:BB:23:A:C8	2.60	0.69
41:BI:36:ARG:HH11	41:BI:36:ARG:HB3	1.55	0.69
34:BA:806:C:H42	34:BA:807:A:N6	1.90	0.69
25:A1:33:ARG:C	25:A1:35:ALA:N	2.36	0.69
25:A1:99:ALA:HA	25:A1:106:PHE:CB	2.23	0.69
2:AA:1177:A:H2'	2:AA:1178:C:C6	2.27	0.69
2:AA:818:G:H21	2:AA:1189:A:H62	0.76	0.69
2:AA:1239:G:C2'	2:AA:1240:U:H6	2.06	0.69
2:AA:1280:G:O2'	2:AA:1281:G:H5'	1.91	0.69
2:AA:1375:C:O2'	2:AA:1376:C:H5'	1.93	0.69
2:AA:1563:G:N3	2:AA:1564:C:C6	2.61	0.69
2:AA:1769:G:C2	2:AA:1984:G:C5	2.81	0.69
2:AA:1797:C:H6	2:AA:1797:C:O5'	1.75	0.69
2:AA:2131:G:H3'	3:AC:5:LYS:O	1.92	0.69
2:AA:2325:G:H2'	2:AA:2326:C:H6	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2352:A:H2'	2:AA:2353:G:O4'	1.91	0.69
2:AA:2386:C:C1'	27:A3:39:ARG:HH21	2.06	0.69
2:AA:239:U:O2'	2:AA:240:G:C5'	2.40	0.69
2:AA:242:G:C2'	2:AA:243:U:OP2	2.41	0.69
2:AA:269:U:H5	2:AA:270(Z):U:P	2.15	0.69
2:AA:2830:G:N3	2:AA:2883:A:C2	2.61	0.69
2:AA:613:U:O5'	2:AA:615:G:H1'	1.93	0.69
2:AA:713:G:C2	2:AA:714:U:C6	2.80	0.69
2:AA:74:A:O2'	2:AA:75:G:OP2	2.10	0.69
2:AA:780:G:N1	4:AD:233:ASP:OD1	2.23	0.69
2:AA:809:G:O4'	2:AA:1254:A:H1'	1.92	0.69
2:AA:815:C:H2'	2:AA:816:C:C6	2.27	0.69
2:AA:896:A:N3	2:AA:896:A:H3'	2.07	0.69
2:AA:965:C:H2'	2:AA:966:G:O4'	1.93	0.69
1:AB:40:U:H3'	1:AB:41:U:H5'	1.75	0.69
3:AC:103:ILE:HG22	3:AC:130:ILE:CG2	2.23	0.69
4:AD:140:VAL:HG22	4:AD:191:VAL:CG1	2.23	0.69
4:AD:160:SER:O	4:AD:176:ALA:CB	2.39	0.69
5:AE:205:THR:HG23	5:AE:259:HIS:HB2	1.72	0.69
9:AJ:15:VAL:HG21	9:AJ:49:ALA:HA	1.73	0.69
10:AK:3:VAL:HG12	10:AK:3:VAL:O	1.92	0.69
2:AA:6:A:C5'	12:AM:4:ALA:N	2.55	0.69
13:AN:107:ARG:CG	13:AN:115:ILE:HD13	2.23	0.69
2:AA:2675:A:H5'	13:AN:30:ARG:H	1.56	0.69
13:AN:86:ILE:CG2	13:AN:94:ARG:HG3	2.18	0.69
15:AP:63:ALA:O	15:AP:64:ALA:C	2.27	0.69
16:AQ:120:GLU:HA	16:AQ:123:ILE:CG1	2.21	0.69
21:AV:54:ILE:CG2	21:AV:56:VAL:HG23	2.23	0.69
34:BA:1046:A:N3	34:BA:1046:A:C2'	2.52	0.69
34:BA:129(A):G:O2'	34:BA:130:A:OP2	2.08	0.69
34:BA:1454:G:C2'	34:BA:1455:G:H8	2.06	0.69
34:BA:1514:C:H2'	34:BA:1515:C:C6	2.27	0.69
34:BA:440:A:OP2	34:BA:440:A:C8	2.45	0.69
34:BA:476:G:O2'	34:BA:477:G:H5'	1.93	0.69
34:BA:558:G:H5''	34:BA:559:A:H5''	1.74	0.69
34:BA:641:U:O2'	34:BA:642:A:N7	2.20	0.69
34:BA:889:A:N3	34:BA:891:U:N3	2.39	0.69
34:BA:909:A:C2	34:BA:910:C:H1'	2.27	0.69
34:BA:979:C:H2'	34:BA:980:C:H5'	1.75	0.69
34:BA:988:G:H2'	34:BA:989:C:O4'	1.92	0.69
37:BE:95:GLN:HB2	37:BE:148:TYR:HB3	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BF:76:VAL:HG11	38:BF:103:VAL:CG1	2.22	0.69
38:BF:133:ALA:O	38:BF:136:GLN:HB2	1.93	0.69
38:BF:54:ARG:HG2	38:BF:55:VAL:N	2.08	0.69
41:BI:45:LEU:HG	41:BI:59:TYR:HD1	1.57	0.69
42:BJ:76:ARG:HD2	42:BJ:89:MET:HE1	1.75	0.69
43:BK:10:LEU:O	43:BK:14:ARG:NH1	2.25	0.69
43:BK:48:TYR:HB2	43:BK:61:VAL:HG22	1.73	0.69
43:BK:6:ILE:HG21	43:BK:85:ARG:NH1	2.08	0.69
47:BO:60:LEU:O	47:BO:62:SER:N	2.25	0.69
47:BO:84:LEU:N	47:BO:104:VAL:CG1	2.51	0.69
52:BT:101:ARG:CZ	52:BT:101:ARG:HB3	2.22	0.69
34:BA:761:G:H1'	52:BT:103:GLY:O	1.92	0.69
54:BV:41:VAL:HB	54:BV:42:PRO:HD2	1.73	0.69
34:BA:332:G:OP2	55:BW:10:LEU:HD23	1.93	0.69
24:A0:86:ARG:HH11	24:A0:86:ARG:CB	1.98	0.69
24:A0:97:VAL:C	24:A0:98:LEU:HG	2.11	0.69
2:AA:997:G:C5'	25:A1:92:ARG:HH11	2.06	0.69
26:A2:20:ILE:CG2	26:A2:67:LYS:HZ2	2.05	0.69
27:A3:43:THR:OG1	27:A3:75:GLY:C	2.30	0.69
29:A5:34:PRO:HG2	29:A5:35:GLN:H	1.58	0.69
33:A9:24:LEU:HD13	33:A9:35:ARG:HG3	1.74	0.69
2:AA:1053:C:O2'	2:AA:1054:A:H5'	1.92	0.69
2:AA:1061:U:H5''	2:AA:1070:A:H4'	1.74	0.69
2:AA:1085:A:C4'	9:AI:29:PHE:CD2	2.75	0.69
2:AA:142(A):A:N6	2:AA:1143:A:C6	2.60	0.69
2:AA:976:C:H4'	2:AA:1156:A:H62	1.56	0.69
2:AA:1266:G:N7	18:AS:16:LYS:HE3	2.07	0.69
2:AA:1470:G:N1	2:AA:1520:U:C4	2.61	0.69
2:AA:1682:G:OP1	2:AA:1699:G:N2	2.26	0.69
2:AA:1807:G:H1'	2:AA:1811:G:N2	2.08	0.69
2:AA:1833:U:H2'	2:AA:1834:U:H6	1.58	0.69
2:AA:1919:A:O3'	34:BA:1517:G:H1'	1.92	0.69
2:AA:1907:G:O6	2:AA:1923:U:O4	2.10	0.69
2:AA:1980:G:C5	2:AA:1982:C:N4	2.61	0.69
2:AA:1996:C:C2'	2:AA:1997:G:O5'	2.35	0.69
2:AA:2131:G:H5''	3:AC:6:ARG:HB2	1.75	0.69
2:AA:2094:G:C2	2:AA:2196:C:C2	2.80	0.69
2:AA:2265:U:O2	2:AA:2266:A:N7	2.26	0.69
2:AA:2325:G:C4	2:AA:2326:C:H5	2.10	0.69
2:AA:2320:A:N3	2:AA:2333:A:C6	2.61	0.69
2:AA:2624:G:N2	2:AA:2625:G:H1'	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2818:G:C6	2:AA:2829:C:N4	2.61	0.69
2:AA:2855:C:N4	2:AA:2862:G:H1	1.90	0.69
2:AA:300:A:HO2'	2:AA:318:C:H1'	1.57	0.69
2:AA:290:G:N2	2:AA:350:U:C2	2.59	0.69
2:AA:363(A):A:H2'	2:AA:363(B):G:C5'	2.22	0.69
2:AA:35:G:C4	2:AA:454:A:C2	2.80	0.69
2:AA:500:G:C3'	2:AA:501:A:H5''	2.23	0.69
2:AA:716:A:H3'	2:AA:716:A:C8	2.27	0.69
2:AA:725:G:C6	2:AA:726:G:N2	2.60	0.69
2:AA:754:C:H2'	2:AA:755:C:C5'	2.23	0.69
2:AA:848:G:C2	2:AA:849:A:N6	2.60	0.69
2:AA:931:G:C2'	2:AA:932:G:C8	2.74	0.69
2:AA:957:A:C8	2:AA:959:A:N7	2.60	0.69
2:AA:1861:G:H5'	3:AC:205:LYS:CD	2.22	0.69
3:AC:225:ASN:O	3:AC:227:HIS:N	2.20	0.69
5:AE:223:LYS:O	5:AE:227:ALA:CA	2.41	0.69
2:AA:673:C:OP1	6:AF:81:PRO:CG	2.41	0.69
8:AH:102:LEU:HG	8:AH:114:ILE:HB	1.73	0.69
2:AA:2749:A:O4'	8:AH:62:ALA:CB	2.41	0.69
8:AH:25:VAL:CG1	8:AH:78:VAL:HG21	2.16	0.69
11:AL:32:GLY:O	11:AL:60:VAL:HG11	1.91	0.69
14:AO:130:ARG:O	14:AO:133:VAL:HB	1.93	0.69
15:AP:49:VAL:HG13	15:AP:119:ASN:O	1.92	0.69
15:AP:36:ASN:HB2	21:AV:114:ASP:O	1.91	0.69
15:AP:36:ASN:ND2	21:AV:116:VAL:HB	2.07	0.69
16:AQ:35:VAL:HA	16:AQ:103:ASP:HB3	1.74	0.69
17:AR:45:GLU:O	17:AR:48:ASN:CG	2.31	0.69
18:AS:13:SER:O	18:AS:17:VAL:CG2	2.40	0.69
2:AA:1339:G:H5'	19:AT:13:LYS:CE	2.21	0.69
21:AV:6:LYS:HD3	21:AV:30:VAL:CG1	2.22	0.69
22:AW:51:LYS:HB3	22:AW:55:ARG:HE	1.58	0.69
34:BA:577:G:H1'	34:BA:816:A:N3	2.07	0.69
35:BB:34:G:C5'	35:BB:34:G:C8	2.75	0.69
37:BE:117:GLU:O	37:BE:120:ALA:HB3	1.92	0.69
37:BE:184:VAL:HB	37:BE:198:ASP:OD2	1.93	0.69
37:BE:14:GLY:CA	37:BE:209:ARG:NH2	2.46	0.69
37:BE:223:ILE:HA	37:BE:226:ARG:HD2	1.73	0.69
41:BI:33:TYR:CZ	41:BI:75:LEU:HA	2.28	0.69
41:BI:77:ARG:O	41:BI:81:ILE:HG13	1.93	0.69
44:BL:50:LEU:HD21	44:BL:58:ARG:HD2	1.74	0.69
45:BM:54:PHE:H	49:BQ:41:ARG:HH21	1.41	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BR:18:PHE:O	50:BR:18:PHE:CD1	2.45	0.69
50:BR:87:ILE:O	50:BR:88:ARG:HB2	1.92	0.69
51:BS:23:ASP:O	51:BS:25:ARG:N	2.23	0.69
53:BU:72:ARG:O	53:BU:75:ILE:HB	1.90	0.69
23:AX:1:MET:CE	23:AX:3:ARG:HD2	2.21	0.69
36:B1:14:U:O2	36:B1:42:G:N2	2.25	0.69
2:AA:19:C:OP1	25:A1:23:GLY:HA2	1.93	0.69
26:A2:19:VAL:O	26:A2:21:ARG:HG2	1.93	0.69
26:A2:67:LYS:CE	26:A2:94:LYS:HD2	2.23	0.69
2:AA:2353:G:O2'	27:A3:31:VAL:HG23	1.93	0.69
2:AA:2332:U:H5'	27:A3:70:ILE:HG22	1.74	0.69
28:A4:58:LYS:CG	28:A4:62:ARG:HH21	2.04	0.69
30:A6:42:PRO:C	30:A6:44:ALA:N	2.37	0.69
2:AA:1379:A:N6	31:A7:10:ARG:NH2	2.40	0.69
31:A7:20:ALA:HA	31:A7:23:LYS:HD2	1.75	0.69
32:A8:16:ILE:HG13	32:A8:22:VAL:HG21	1.74	0.69
2:AA:1014:U:H2'	2:AA:1015:G:H5'	1.72	0.69
2:AA:1063:G:C6	2:AA:1075:C:N4	2.59	0.69
2:AA:1136:G:N2	2:AA:1137:G:H1'	2.07	0.69
2:AA:1270:C:C1'	2:AA:1325:G:N7	2.47	0.69
2:AA:1341:U:O4	2:AA:1395:A:H2	1.75	0.69
2:AA:1343:G:N1	2:AA:1404:C:N3	2.37	0.69
2:AA:1356:G:O2'	2:AA:1357:U:H5'	1.93	0.69
2:AA:1567:A:H4'	2:AA:1568:G:N1	2.08	0.69
2:AA:176:G:H3'	2:AA:177:G:H8	1.56	0.69
2:AA:1801:G:H8	2:AA:1801:G:OP1	1.75	0.69
2:AA:1894:C:O2	2:AA:1895:C:C5	2.45	0.69
2:AA:2058:A:N3	2:AA:2059:A:N7	2.41	0.69
2:AA:2061:G:OP2	2:AA:2502:G:OP2	2.11	0.69
2:AA:2136:C:N4	2:AA:2154:G:C6	2.60	0.69
2:AA:2210:G:O2'	2:AA:2211:G:OP2	2.09	0.69
2:AA:2298:A:C2	2:AA:2299:G:H1'	2.26	0.69
2:AA:2364:C:H5''	27:A3:38:VAL:CG1	2.23	0.69
2:AA:2686:G:O2'	2:AA:2687:U:C5'	2.41	0.69
2:AA:270(D):C:O2	2:AA:270(D):C:C2'	2.37	0.69
2:AA:2821:A:OP2	2:AA:2821:A:C3'	2.40	0.69
2:AA:338:G:OP1	2:AA:338:G:H3'	1.92	0.69
2:AA:295:G:C6	2:AA:344:G:N1	2.61	0.69
2:AA:388:G:H1'	2:AA:390:A:N6	2.07	0.69
2:AA:693:C:O2'	2:AA:694:U:H5'	1.92	0.69
2:AA:2712:U:C6	2:AA:712(A):A:C8	2.80	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:744:G:H2'	2:AA:745:G:C8	2.28	0.69
2:AA:733:G:N7	2:AA:761:A:C6	2.61	0.69
2:AA:90:U:H4'	2:AA:91:A:O5'	1.92	0.69
2:AA:928:G:H2'	2:AA:929:G:C4	2.27	0.69
2:AA:981:A:H5''	2:AA:982:C:OP2	1.92	0.69
1:AB:81:G:H4'	2:AA:919:G:H4'	1.74	0.69
3:AC:30:LYS:HG2	3:AC:178:ALA:O	1.91	0.69
3:AC:68:LEU:HB3	3:AC:72:VAL:CG2	2.22	0.69
2:AA:2771:C:C5'	5:AE:316:ARG:HD2	2.21	0.69
5:AE:74:GLU:C	5:AE:75:THR:HG1	1.95	0.69
6:AF:200:PRO:HG3	6:AF:212:VAL:HG12	1.74	0.69
6:AF:115:LEU:CG	6:AF:246:ARG:HH22	2.05	0.69
7:AG:25:MET:SD	7:AG:128:LEU:O	2.49	0.69
8:AH:10:ILE:HG23	8:AH:10:ILE:O	1.93	0.69
9:AI:102:ILE:CD1	9:AI:118:LEU:HD22	2.22	0.69
2:AA:1054:A:H2	9:AI:28:LYS:HG2	1.57	0.69
9:AI:3:ILE:HG21	11:AL:117:ASN:CA	2.13	0.69
9:AJ:15:VAL:HG13	9:AJ:45:ALA:O	1.93	0.69
9:AJ:18:LEU:O	9:AJ:22:VAL:HG23	1.91	0.69
11:AL:114:PRO:O	11:AL:116:LEU:N	2.26	0.69
12:AM:104:TYR:HB3	12:AM:105:LEU:CD2	2.19	0.69
13:AN:77:ILE:C	13:AN:77:ILE:HD13	2.13	0.69
14:AO:65:ASP:HB2	14:AO:67:ARG:HH21	1.57	0.69
17:AR:53:ASP:HB3	17:AR:56:ARG:NH2	2.07	0.69
18:AS:30:GLU:O	18:AS:33:ARG:HB2	1.92	0.69
19:AT:42:GLU:CD	19:AT:49:VAL:HG23	2.12	0.69
20:AU:72:ILE:CG2	20:AU:73:HIS:N	2.56	0.69
21:AV:100:THR:CG2	21:AV:137:ASP:OD1	2.41	0.69
22:AW:59:ILE:HG23	22:AW:60:GLN:H	1.54	0.69
34:BA:1041:A:C2	34:BA:1042:G:C8	2.81	0.69
34:BA:1115:C:O2'	34:BA:1116:C:H5'	1.93	0.69
34:BA:121:C:C4'	34:BA:122:G:OP1	2.41	0.69
34:BA:1336:C:H1'	34:BA:1337:G:C6	2.28	0.69
34:BA:1534:A:C4	34:BA:1534:A:H3'	2.28	0.69
34:BA:572:A:O2'	34:BA:916:G:O2'	2.07	0.69
35:BC:19:G:H4'	35:BC:20:G:OP2	1.92	0.69
35:BC:21:A:N6	35:BC:46:G:C2	2.60	0.69
39:BG:131:ARG:N	39:BG:131:ARG:HD2	2.07	0.69
40:BH:105:VAL:HG21	40:BH:132:ALA:HB2	1.74	0.69
40:BH:77:PRO:HG2	40:BH:78:HIS:CD2	2.26	0.69
42:BJ:11:GLN:NE2	42:BJ:12:LEU:H	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BJ:14:PRO:O	42:BJ:16:LEU:HD23	1.92	0.69
43:BK:9:MET:O	43:BK:13:ILE:HG13	1.93	0.69
43:BK:38:ILE:HG13	43:BK:118:VAL:CG1	2.23	0.69
48:BP:110:ARG:CB	48:BP:110:ARG:HH11	2.05	0.69
48:BP:50:GLU:O	48:BP:53:VAL:HB	1.93	0.69
34:BA:719:C:O2	53:BU:50:ILE:HG13	1.93	0.69
24:A0:103:ARG:O	24:A0:105:ARG:NH2	2.22	0.69
24:A0:18:LEU:HD11	24:A0:22:ARG:NH2	2.08	0.69
24:A0:63:ARG:HH22	24:A0:77:ARG:CA	2.06	0.69
25:A1:64:ARG:O	25:A1:67:ALA:HB3	1.93	0.69
27:A3:68:VAL:HG21	27:A3:72:LYS:CE	2.23	0.69
32:A8:22:VAL:O	32:A8:48:PHE:CE2	2.46	0.69
2:AA:1008:C:HO2'	2:AA:1009:A:P	2.16	0.69
2:AA:993:G:C1'	2:AA:1162:G:N2	2.55	0.69
2:AA:1199:U:H2'	2:AA:1200:C:O5'	1.92	0.69
2:AA:1303:G:C8	2:AA:1304:C:C5	2.80	0.69
2:AA:1472:A:H62	2:AA:1474:C:N4	1.91	0.69
2:AA:1525:G:C2'	2:AA:1526:G:O5'	2.40	0.69
2:AA:1602:U:C6	2:AA:1602:U:C3'	2.76	0.69
2:AA:2376:A:N6	16:AQ:109:PRO:HG2	2.08	0.69
2:AA:411:G:OP2	2:AA:2407:G:OP2	2.11	0.69
2:AA:2557:G:H2'	2:AA:2558:C:C5	2.27	0.69
2:AA:2637:U:O2	2:AA:2782:G:N2	2.26	0.69
2:AA:2700:C:C2'	2:AA:2701:C:H5''	2.22	0.69
2:AA:2810:A:N6	2:AA:2891:G:N2	2.41	0.69
2:AA:324:A:C2	2:AA:325:G:C1'	2.75	0.69
2:AA:396:G:H2'	2:AA:397:G:C8	2.28	0.69
2:AA:865:C:O2	2:AA:865:C:H2'	1.92	0.69
1:AB:43:C:N3	1:AB:45:A:N7	2.41	0.69
1:AB:61:G:N2	1:AB:62:C:C2	2.61	0.69
3:AC:76:ALA:HB1	3:AC:86:ALA:HB1	1.75	0.69
3:AC:78:ALA:HB1	3:AC:82:LYS:CB	2.22	0.69
4:AD:154:VAL:HA	4:AD:157:ALA:HB3	1.73	0.69
4:AD:167:GLU:CB	4:AD:170:TYR:CE1	2.65	0.69
4:AD:172:ILE:CA	4:AD:182:MET:HG2	2.22	0.69
5:AE:225:LYS:N	5:AE:228:ARG:NH1	2.41	0.69
5:AE:61:PRO:HB3	5:AE:69:PRO:CB	2.23	0.69
5:AE:69:PRO:O	5:AE:70:VAL:HG23	1.93	0.69
8:AH:10:ILE:CG1	8:AH:14:VAL:HG11	2.22	0.69
8:AH:40:MET:HE3	8:AH:64:HIS:CE1	2.28	0.69
9:AJ:62:VAL:HG22	9:AJ:101:VAL:HA	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:10:VAL:HG12	13:AN:11:ALA:H	1.58	0.69
13:AN:42:THR:HG22	13:AN:58:VAL:N	2.04	0.69
2:AA:2727:G:O2'	13:AN:70:ARG:NH1	2.24	0.69
13:AN:63:VAL:HG23	13:AN:84:CYS:HB3	1.74	0.69
15:AP:51:GLU:HA	15:AP:118:ALA:N	2.07	0.69
17:AR:7:ASP:OD2	17:AR:31:PHE:HE2	1.75	0.69
21:AV:68:ALA:O	21:AV:69:VAL:HG22	1.93	0.69
34:BA:1049:U:H1'	34:BA:1201:A:C8	2.27	0.69
34:BA:652:U:O4	34:BA:752:G:O2'	2.11	0.69
34:BA:817:C:C6	34:BA:819:A:H4'	2.28	0.69
35:BC:71:G:H2'	35:BC:72:C:H5'	1.75	0.69
37:BE:113:HIS:O	37:BE:117:GLU:HG3	1.93	0.69
37:BE:80:ILE:HD11	37:BE:208:ILE:CG2	2.23	0.69
38:BF:187:ALA:HB3	38:BF:198:VAL:HG21	1.74	0.69
38:BF:56:ASP:O	38:BF:66:VAL:HA	1.93	0.69
39:BG:121:VAL:HG11	39:BG:136:PRO:HA	1.74	0.69
39:BG:38:TYR:HB2	39:BG:39:PRO:CD	2.15	0.69
41:BI:21:LEU:O	41:BI:25:ILE:HG13	1.93	0.69
34:BA:642:A:H1'	43:BK:113:SER:OG	1.92	0.69
43:BK:83:ILE:CA	43:BK:137:VAL:HG22	2.22	0.69
48:BP:56:LEU:O	48:BP:59:TYR:HB3	1.93	0.69
34:BA:750:G:N3	50:BR:23:GLY:HA3	2.08	0.69
51:BS:20:VAL:HG21	51:BS:32:TYR:HD2	1.54	0.69
53:BU:75:ILE:HG22	53:BU:76:LEU:N	2.08	0.69
35:BB:37:G:C2	36:B1:63:C:C4	2.77	0.69
10:AK:77:VAL:CG1	10:AK:143:VAL:HG13	2.23	0.69
18:AS:86:LEU:HD13	18:AS:87:PRO:CD	2.22	0.69
24:A0:74:LYS:O	24:A0:78:LYS:HB2	1.93	0.69
25:A1:84:LYS:O	25:A1:85:ARG:C	2.29	0.69
28:A4:7:PRO:CG	28:A4:60:ASN:HB3	2.23	0.69
29:A5:21:SER:O	29:A5:23:HIS:N	2.26	0.69
29:A5:21:SER:OG	29:A5:22:HIS:N	2.24	0.69
2:AA:458:G:H2'	31:A7:40:HIS:CE1	2.28	0.69
2:AA:1031:G:C6	2:AA:1032:A:N6	2.60	0.69
2:AA:1081:U:C5'	11:AL:123:ALA:HA	2.23	0.69
2:AA:1233:C:O2'	2:AA:1234:U:H5'	1.92	0.69
2:AA:1256:G:H2'	2:AA:1257:C:H6	1.57	0.69
2:AA:1345:C:O2'	2:AA:1346:G:H5'	1.92	0.69
2:AA:1523:U:O2'	2:AA:1524:G:H5'	1.93	0.69
2:AA:1612:C:C6	31:A7:3:ARG:NH2	2.61	0.69
2:AA:1655:A:H2'	2:AA:1656:C:O4'	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1691:C:H2'	2:AA:1692:U:C5'	2.23	0.69
2:AA:1786:A:C2	2:AA:1938:A:C6	2.81	0.69
2:AA:1856:G:C5	2:AA:1857:G:N3	2.61	0.69
2:AA:1918:A:OP2	2:AA:1918:A:H8	1.76	0.69
2:AA:2031:A:H62	2:AA:2498:C:C1'	2.05	0.69
2:AA:226:G:N2	2:AA:227:A:H1'	2.08	0.69
2:AA:225:A:N1	2:AA:230:U:O4	2.26	0.69
2:AA:2307:G:C1'	2:AA:2311:A:H61	2.05	0.69
2:AA:2347:C:N4	2:AA:2348:U:O4	2.26	0.69
2:AA:2644:G:C8	2:AA:2644:G:O5'	2.45	0.69
2:AA:270:A:N6	2:AA:370:G:C5	2.60	0.69
2:AA:2834:G:O6	2:AA:2835:A:C2	2.46	0.69
2:AA:349:G:C2	2:AA:350:U:C5	2.81	0.69
2:AA:352:G:C6	2:AA:353:G:C5	2.80	0.69
2:AA:558:G:C2'	2:AA:559:G:H5'	2.23	0.69
2:AA:60:G:N3	2:AA:74:A:C6	2.61	0.69
2:AA:780:G:C2'	2:AA:782:A:C8	2.72	0.69
2:AA:853:G:O2'	2:AA:854:G:C5'	2.40	0.69
2:AA:94:G:H21	22:AW:42:ASN:ND2	1.80	0.69
2:AA:980:A:C2'	2:AA:981:A:C8	2.75	0.69
1:AB:80:U:H2'	1:AB:81:G:C8	2.27	0.69
1:AB:99:A:H2'	1:AB:100:G:C8	2.28	0.69
3:AC:74:VAL:O	3:AC:92:ASP:HB2	1.93	0.69
5:AE:180:ILE:HG22	5:AE:186:GLU:O	1.92	0.69
5:AE:70:VAL:HG22	5:AE:297:LYS:CA	2.23	0.69
6:AF:197:SER:HB3	6:AF:239:ALA:H	1.58	0.69
13:AN:11:ALA:O	13:AN:99:PHE:N	2.25	0.69
14:AO:55:GLN:HG3	14:AO:56:LYS:HG2	1.75	0.69
14:AO:59:GLU:O	14:AO:60:GLU:HG3	1.92	0.69
15:AP:26:LYS:NZ	15:AP:88:PHE:HB3	2.08	0.69
18:AS:29:LEU:HD12	18:AS:33:ARG:CG	2.23	0.69
19:AT:12:GLU:O	19:AT:16:ASN:OD1	2.11	0.69
19:AT:52:VAL:HA	19:AT:65:VAL:O	1.93	0.69
20:AU:44:ALA:CB	20:AU:65:VAL:HG21	2.21	0.69
21:AV:106:GLY:HA2	21:AV:142:ASN:CG	2.13	0.69
22:AW:58:THR:O	22:AW:62:GLU:HG2	1.92	0.69
36:B1:50:G:H2'	36:B1:51:G:H8	1.57	0.69
34:BA:1241:G:N1	34:BA:1296:C:O2	2.21	0.69
34:BA:1307:U:H2'	34:BA:1308:U:C6	2.28	0.69
34:BA:1398:A:H61	40:BH:21:ALA:HA	1.57	0.69
34:BA:819:A:N1	34:BA:1529:G:N7	2.40	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:576:G:C8	34:BA:881:G:H1'	2.28	0.69
34:BA:708:C:C5'	46:BN:37:GLY:HA3	2.22	0.69
34:BA:73:C:O2'	34:BA:74:C:H5'	1.93	0.69
34:BA:770:C:H1'	34:BA:900:A:N1	2.08	0.69
38:BF:15:THR:O	38:BF:16:ARG:HB3	1.91	0.69
38:BF:17:ASP:HB3	38:BF:18:TRP:CE3	2.28	0.69
39:BG:110:PHE:CE1	39:BG:148:VAL:HG23	2.28	0.69
42:BJ:15:ASP:OD1	42:BJ:18:TYR:N	2.24	0.69
44:BL:28:VAL:O	44:BL:29:ASN:C	2.31	0.69
44:BL:37:PHE:CD2	44:BL:37:PHE:N	2.61	0.69
47:BO:38:THR:HG22	47:BO:57:LYS:HB2	1.73	0.69
48:BP:14:ARG:HG2	48:BP:44:ARG:NH1	2.08	0.69
43:BK:91:ARG:CG	52:BT:34:LYS:H	2.03	0.69
52:BT:10:VAL:CG2	52:BT:55:ASP:HB2	2.23	0.69
10:AK:81:ALA:HB3	10:AK:89:LEU:CD2	2.22	0.69
2:AA:1040:C:C2	2:AA:1115:G:N2	2.61	0.69
24:A0:96:ARG:HG2	24:A0:115:GLU:CG	2.22	0.69
2:AA:2690:C:N4	24:A0:14:SER:HB2	2.08	0.69
24:A0:20:LEU:CD1	24:A0:24:GLN:HG3	2.23	0.69
24:A0:55:ALA:HB2	24:A0:79:LEU:HD21	1.73	0.69
25:A1:114:ARG:O	25:A1:117:ARG:CG	2.41	0.69
27:A3:28:GLY:CA	27:A3:60:PHE:HB3	2.23	0.69
2:AA:2332:U:OP2	27:A3:51:VAL:HG21	1.92	0.69
28:A4:23:GLU:HA	28:A4:27:THR:O	1.93	0.69
2:AA:1263:U:C4'	29:A5:16:ARG:NH1	2.56	0.69
2:AA:2015:A:C5	29:A5:6:VAL:HG21	2.28	0.69
2:AA:1202:C:O2	2:AA:1202:C:H2'	1.92	0.69
2:AA:1343:G:C3'	2:AA:1344:G:H5''	2.23	0.69
2:AA:1352:U:H1'	2:AA:1570:A:N3	2.07	0.69
2:AA:1500:G:H2'	2:AA:1501:C:C6	2.28	0.69
2:AA:1521:G:H5'	2:AA:1522:G:C8	2.28	0.69
2:AA:1583:A:P	2:AA:1586:A:H5'	2.32	0.69
2:AA:1809:A:O2'	2:AA:1810:A:P	2.51	0.69
2:AA:1819:A:N3	2:AA:1821:A:N6	2.41	0.69
2:AA:1843:C:C2	2:AA:1844:C:C5	2.80	0.69
2:AA:1854:A:C2'	2:AA:1855:G:H5'	2.23	0.69
2:AA:2043:C:H5	2:AA:2777:G:C1'	1.96	0.69
2:AA:2393:A:H2'	2:AA:2394:C:O4'	1.93	0.69
2:AA:2447:G:C6	2:AA:2501:C:N3	2.61	0.69
2:AA:2616:C:O2'	2:AA:2617:C:H5'	1.93	0.69
2:AA:2703:C:O2'	2:AA:2704:C:H5'	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2765:A:H5'	2:AA:2766:G:OP2	1.93	0.69
2:AA:2820:A:C2'	2:AA:2821:A:OP1	2.41	0.69
2:AA:387:U:H5''	2:AA:388:G:OP1	1.93	0.69
2:AA:464:U:N3	2:AA:465:G:C8	2.60	0.69
2:AA:492:A:H2'	2:AA:493:G:C5'	2.22	0.69
2:AA:503:A:N1	2:AA:505:A:N6	2.40	0.69
2:AA:603:A:H2'	2:AA:604:G:C8	2.27	0.69
2:AA:669:G:C4	2:AA:801:G:C6	2.81	0.69
2:AA:60:G:C2	2:AA:74:A:N6	2.61	0.69
2:AA:772:C:H2'	2:AA:773:U:C6	2.28	0.69
2:AA:828:U:C5	2:AA:829:A:N6	2.61	0.69
2:AA:864:G:H2'	2:AA:865:C:H6	1.55	0.69
1:AB:20:C:C2'	1:AB:21:G:H5'	2.22	0.69
3:AC:27:HIS:CE1	3:AC:182:PRO:HG3	2.29	0.69
4:AD:199:ARG:NH1	4:AD:199:ARG:HG3	2.03	0.69
5:AE:74:GLU:O	5:AE:75:THR:OG1	2.08	0.69
6:AF:55:ARG:O	6:AF:79:ARG:NE	2.25	0.69
6:AF:88:SER:O	6:AF:89:ALA:HB2	1.93	0.69
6:AF:96:LYS:O	6:AF:98:ARG:NE	2.26	0.69
7:AG:13:MET:HG3	7:AG:137:PRO:HG3	1.74	0.69
12:AM:57:TYR:CB	12:AM:135:ILE:HG21	2.20	0.69
13:AN:35:ILE:N	13:AN:62:VAL:CG1	2.56	0.69
13:AN:42:THR:CB	13:AN:56:GLN:O	2.31	0.69
14:AO:73:VAL:HG13	14:AO:76:LEU:HB3	1.73	0.69
2:AA:911:A:C6	15:AP:15:THR:O	2.44	0.69
16:AQ:120:GLU:O	16:AQ:123:ILE:HB	1.93	0.69
20:AU:51:LEU:N	20:AU:97:ARG:HE	1.91	0.69
20:AU:71:VAL:CG2	20:AU:93:THR:H	2.04	0.69
2:AA:969:U:H4'	23:AX:14:GLY:O	1.93	0.69
23:AX:30:ARG:HH21	23:AX:33:GLN:CG	2.06	0.69
34:BA:1060:C:H2'	34:BA:1061:G:C8	2.26	0.69
34:BA:132:C:N3	34:BA:230:G:N2	2.33	0.69
34:BA:1350:A:N1	34:BA:1372:U:O2	2.26	0.69
34:BA:1423:G:O2'	34:BA:1424:C:H5'	1.93	0.69
34:BA:350:G:N2	34:BA:351:G:C2	2.60	0.69
34:BA:378:G:O5'	34:BA:378:G:H8	1.76	0.69
34:BA:421:U:H5''	34:BA:422:C:OP2	1.92	0.69
34:BA:672:U:H2'	34:BA:672:U:O2	1.91	0.69
34:BA:730:G:N2	34:BA:765:G:H4'	2.08	0.69
34:BA:995:C:H2'	49:BQ:4:LYS:NZ	2.07	0.69
34:BA:999:C:O2	34:BA:1042:G:N1	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:187:LEU:HD22	37:BE:201:ILE:O	1.93	0.69
37:BE:187:LEU:CD2	37:BE:201:ILE:HG22	2.19	0.69
39:BG:19:LEU:O	39:BG:20:TYR:C	2.32	0.69
40:BH:76:ILE:HG21	40:BH:142:LEU:CD2	2.23	0.69
40:BH:30:ALA:O	40:BH:45:PHE:HA	1.92	0.69
40:BH:60:TYR:O	40:BH:64:ARG:HG2	1.92	0.69
42:BJ:50:ILE:HD13	42:BJ:58:PRO:HA	1.73	0.69
44:BL:19:LEU:HD23	44:BL:61:ALA:HA	1.74	0.69
46:BN:82:VAL:CG1	46:BN:108:ILE:HG12	2.23	0.69
46:BN:60:ALA:O	46:BN:61:ALA:C	2.31	0.69
46:BN:62:GLN:OE1	46:BN:63:LEU:HD23	1.93	0.69
50:BR:36:ILE:HG22	50:BR:37:ASN:N	2.08	0.69
52:BT:59:ILE:HD12	52:BT:73:VAL:HA	1.73	0.69
54:BV:64:GLU:HG3	54:BV:65:ASN:N	2.07	0.69
2:AA:1049:C:N4	2:AA:1050:A:H62	1.91	0.69
40:BH:137:GLU:HA	40:BH:137:GLU:OE1	1.91	0.69
26:A2:19:VAL:CB	26:A2:21:ARG:HH12	2.06	0.68
28:A4:5:LEU:CD1	28:A4:60:ASN:ND2	2.47	0.68
2:AA:1309:G:C2'	2:AA:1310:G:C5'	2.67	0.68
2:AA:1338:G:H2'	2:AA:1339:G:C8	2.26	0.68
2:AA:134:C:O2'	2:AA:135:G:H5'	1.93	0.68
2:AA:1475:G:N3	2:AA:1475:G:H2'	2.08	0.68
2:AA:1498:C:H3'	2:AA:1499:C:H6	1.57	0.68
2:AA:1673:U:C2'	2:AA:1674:G:O5'	2.40	0.68
2:AA:1699:G:O6	2:AA:1763:G:C1'	2.42	0.68
2:AA:1811:G:H2'	2:AA:1812:A:C8	2.28	0.68
2:AA:1939:U:H1'	2:AA:2592:G:C4'	2.03	0.68
2:AA:1961:C:O2'	2:AA:1962:C:H5'	1.92	0.68
2:AA:2206:C:O2'	2:AA:2207:C:H5'	1.92	0.68
2:AA:2216:G:C2'	2:AA:2217:G:H5'	2.22	0.68
2:AA:2378:A:O5'	2:AA:2378:A:H8	1.76	0.68
2:AA:2654:A:H1'	2:AA:2656:U:C4	2.27	0.68
2:AA:270(A):A:H5'	2:AA:270(B):A:OP2	1.93	0.68
2:AA:270(H):C:O2'	2:AA:270(I):G:H5'	1.93	0.68
2:AA:358:U:C2	2:AA:359:A:H5'	2.28	0.68
2:AA:389:G:N3	2:AA:389:G:H2'	2.08	0.68
2:AA:493:G:H2'	2:AA:494:G:H8	1.57	0.68
2:AA:501:A:N7	2:AA:502:A:N6	2.41	0.68
2:AA:58:G:H1'	2:AA:70:G:N2	2.07	0.68
2:AA:784:A:N7	2:AA:792:G:C5	2.61	0.68
2:AA:792:G:O2'	2:AA:793:A:OP2	2.10	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:961:C:C4	2:AA:2031:A:C2	2.81	0.68
2:AA:989:G:H4'	2:AA:1157:G:H5''	1.74	0.68
4:AD:156:ALA:C	4:AD:196:ASN:HD22	1.97	0.68
5:AE:240:PRO:CB	5:AE:243:PRO:HG3	2.23	0.68
6:AF:147:LEU:HD12	6:AF:156:LEU:HD11	1.75	0.68
8:AH:84:LYS:O	8:AH:131:ILE:HG22	1.92	0.68
8:AH:27:GLY:O	8:AH:30:GLY:O	2.11	0.68
9:AI:18:LEU:HD13	9:AI:45:ALA:N	2.08	0.68
13:AN:103:ALA:HB3	13:AN:105:GLU:HG2	1.73	0.68
13:AN:92:SER:HB3	13:AN:113:LYS:NZ	2.08	0.68
13:AN:35:ILE:N	13:AN:62:VAL:HG11	2.08	0.68
14:AO:67:ARG:NH1	14:AO:110:GLY:O	2.26	0.68
16:AQ:85:GLY:HA3	16:AQ:121:GLY:HA3	1.75	0.68
21:AV:124:ALA:H	21:AV:159:THR:CG2	2.06	0.68
36:B1:46:A:H5''	36:B1:47:U:C6	2.28	0.68
34:BA:1124:G:H3'	34:BA:1145:C:N4	2.06	0.68
34:BA:1298:C:C4'	42:BJ:114:ARG:HH12	2.06	0.68
34:BA:1418:A:C2	34:BA:1483:A:N1	2.61	0.68
34:BA:1403:C:H1'	34:BA:1500:A:H61	1.58	0.68
34:BA:656:C:C2'	34:BA:657:G:H5'	2.24	0.68
34:BA:977:A:H2'	34:BA:977:A:N3	2.08	0.68
35:BC:17:U:H5''	35:BC:18:G:C3'	2.23	0.68
38:BF:64:VAL:HB	38:BF:99:VAL:CG1	2.17	0.68
39:BG:191:ARG:HH22	39:BG:196:LEU:CB	2.06	0.68
39:BG:205:GLU:O	39:BG:208:SER:N	2.26	0.68
43:BK:48:TYR:CB	43:BK:61:VAL:HG22	2.24	0.68
43:BK:68:ARG:HD3	43:BK:69:ARG:N	2.09	0.68
45:BM:54:PHE:CE1	45:BM:55:LYS:HG2	2.28	0.68
52:BT:59:ILE:HD11	52:BT:72:ARG:C	2.13	0.68
53:BU:70:ILE:O	53:BU:74:ARG:HD2	1.93	0.68
34:BA:333:G:C4'	55:BW:16:HIS:NE2	2.55	0.68
55:BW:62:LEU:CA	55:BW:65:LYS:HG2	2.23	0.68
2:AA:2108:C:H5''	2:AA:2109:U:H5	1.58	0.68
24:A0:34:ILE:CG2	24:A0:35:THR:N	2.56	0.68
25:A1:113:SER:O	25:A1:116:ALA:HB3	1.93	0.68
25:A1:98:ILE:O	25:A1:99:ALA:C	2.31	0.68
26:A2:33:VAL:HG12	26:A2:34:GLU:N	2.06	0.68
2:AA:1021:A:C2'	2:AA:1022:G:OP1	2.39	0.68
2:AA:331:A:C6	2:AA:1209:G:C2	2.80	0.68
2:AA:1263:U:C2	2:AA:1264:G:N2	2.62	0.68
2:AA:1424:G:C2	2:AA:1425:G:O4'	2.46	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1487:G:H2'	2:AA:1488:G:C8	2.19	0.68
2:AA:1535:U:H5''	2:AA:1536:A:C4'	2.23	0.68
2:AA:1669:A:O2'	2:AA:1670:C:OP1	2.12	0.68
2:AA:1682:G:C5	2:AA:1757:U:H1'	2.29	0.68
2:AA:1789:A:H2'	2:AA:1790:C:C1'	2.24	0.68
2:AA:1839:G:H2'	2:AA:1839:G:N3	2.09	0.68
2:AA:1941:C:C4	2:AA:1942:C:C5	2.81	0.68
2:AA:195:A:N3	2:AA:198:C:N4	2.41	0.68
2:AA:1967:C:O2	2:AA:1968:G:O4'	2.11	0.68
2:AA:1981:A:C5'	2:AA:1982:C:OP2	2.36	0.68
2:AA:2072:G:C5	2:AA:2073:C:C5	2.80	0.68
2:AA:215:G:O4'	2:AA:216:A:H4'	1.91	0.68
2:AA:2177:C:H5''	3:AC:46:LYS:HD2	1.75	0.68
2:AA:2250:G:C8	2:AA:2250:G:H3'	2.27	0.68
2:AA:2332:U:C4'	2:AA:2336:A:H61	2.07	0.68
2:AA:237:C:O2	2:AA:608:A:O2'	2.08	0.68
2:AA:247:G:O2'	2:AA:386:G:N2	2.26	0.68
2:AA:2459:A:N6	2:AA:2493:U:C4	2.60	0.68
2:AA:2756:U:O2'	2:AA:2757:A:C5'	2.40	0.68
2:AA:292:C:H2'	2:AA:293:U:H3	1.56	0.68
2:AA:396:G:H2'	2:AA:397:G:H8	1.57	0.68
2:AA:544:C:N3	2:AA:549:G:O6	2.26	0.68
2:AA:28:A:O2'	2:AA:583:G:H5'	1.93	0.68
2:AA:594:U:N3	2:AA:595:C:N4	2.41	0.68
2:AA:638:G:N7	2:AA:639:U:N3	2.41	0.68
2:AA:929:G:H2'	23:AX:37:LEU:HD13	1.75	0.68
2:AA:972:G:OP1	2:AA:974(A):C:H5'	1.93	0.68
2:AA:994:C:H5'	2:AA:995:C:OP2	1.92	0.68
4:AD:232:VAL:CG2	4:AD:233:ASP:N	2.56	0.68
5:AE:109:ASP:OD1	5:AE:112:LEU:HB3	1.92	0.68
5:AE:45:LYS:NZ	5:AE:301:PRO:C	2.46	0.68
6:AF:196:THR:OG1	6:AF:201:SER:N	2.26	0.68
7:AG:67:ASP:HB2	7:AG:69:ILE:HD12	1.75	0.68
8:AH:102:LEU:CD1	8:AH:104:LEU:HD11	2.24	0.68
8:AH:43:THR:OG1	8:AH:50:THR:O	2.09	0.68
8:AH:43:THR:HG23	8:AH:50:THR:O	1.92	0.68
9:AI:18:LEU:O	9:AI:22:VAL:HG23	1.93	0.68
10:AK:6:LEU:O	10:AK:6:LEU:CD1	2.39	0.68
10:AK:8:ASP:C	10:AK:10:LYS:H	1.95	0.68
2:AA:1059:G:H1'	11:AL:127:ILE:HG21	1.74	0.68
11:AL:58:ILE:CG2	11:AL:67:THR:HA	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:77:GLY:O	12:AM:78:ILE:C	2.31	0.68
13:AN:121:VAL:O	13:AN:122:ILE:HG13	1.93	0.68
14:AO:65:ASP:HB3	14:AO:109:LEU:HB3	1.75	0.68
15:AP:88:PHE:O	15:AP:113:ALA:HB2	1.93	0.68
16:AQ:15:GLU:O	16:AQ:16:ALA:CB	2.41	0.68
17:AR:10:GLY:H	17:AR:52:THR:HB	1.58	0.68
17:AR:30:HIS:O	17:AR:31:PHE:CD2	2.47	0.68
2:AA:99:U:N3	20:AU:107:LYS:CD	2.56	0.68
21:AV:141:MET:CA	21:AV:171:VAL:HG11	2.23	0.68
21:AV:19:ILE:HB	21:AV:36:ARG:HG2	1.76	0.68
23:AX:30:ARG:CG	23:AX:30:ARG:NH1	2.54	0.68
34:BA:1067:A:O2'	34:BA:1068:G:P	2.51	0.68
34:BA:1360:A:N1	34:BA:1361:G:C2	2.61	0.68
34:BA:318:G:C2'	34:BA:319:G:H5'	2.22	0.68
34:BA:475:G:H2'	34:BA:476:G:C8	2.28	0.68
34:BA:575:G:N1	34:BA:821:G:C8	2.61	0.68
34:BA:61:G:N7	34:BA:62:U:C4	2.61	0.68
34:BA:597:G:C4	34:BA:644:G:C2	2.81	0.68
34:BA:671:G:C2'	34:BA:672:U:H6	2.06	0.68
34:BA:874:G:N2	34:BA:875:C:H1'	2.08	0.68
35:BB:32:C:N4	35:BB:33:U:C4	2.60	0.68
35:BC:54:U:C2'	35:BC:55:U:H5'	2.23	0.68
35:BC:8:U:C1'	35:BC:48:C:O2'	2.41	0.68
37:BE:222:ILE:HG12	37:BE:223:ILE:H	1.56	0.68
38:BF:47:LEU:HD13	38:BF:83:ARG:HH21	1.57	0.68
39:BG:8:VAL:HA	39:BG:11:LEU:HG	1.76	0.68
42:BJ:80:VAL:CG2	42:BJ:85:TYR:HB2	2.23	0.68
43:BK:30:ARG:O	43:BK:33:GLU:HB3	1.92	0.68
43:BK:53:VAL:HG12	43:BK:54:ASP:OD1	1.94	0.68
45:BM:6:ILE:HG22	45:BM:98:ILE:CG1	2.23	0.68
46:BN:58:PRO:HA	46:BN:90:GLY:CA	2.17	0.68
47:BO:7:ILE:O	47:BO:11:VAL:HG23	1.92	0.68
47:BO:80:HIS:ND1	47:BO:80:HIS:N	2.40	0.68
48:BP:66:LEU:HA	48:BP:70:LEU:HD12	1.75	0.68
51:BS:7:ALA:O	51:BS:17:TYR:HA	1.92	0.68
10:AK:78:THR:HA	10:AK:144:HIS:NE2	2.08	0.68
1:AB:12:C:H5	27:A3:53:MET:CA	2.04	0.68
37:BE:130:ARG:HB3	37:BE:134:GLU:CG	2.23	0.68
37:BE:229:VAL:O	37:BE:230:VAL:HG13	1.94	0.68
24:A0:107:ASP:OD2	24:A0:109:ALA:HB3	1.93	0.68
25:A1:69:ALA:CB	25:A1:79:PHE:CZ	2.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:A2:34:GLU:C	26:A2:63:HIS:CE1	2.67	0.68
28:A4:48:ARG:HB2	28:A4:71:SER:CB	2.23	0.68
24:A0:99:LYS:O	29:A5:44:HIS:CD2	2.47	0.68
2:AA:1047:G:N2	2:AA:1111:A:N6	2.41	0.68
2:AA:1027:A:N6	2:AA:1126:A:H1'	2.08	0.68
2:AA:1212:G:O2'	2:AA:1213:A:H8	1.76	0.68
2:AA:1227:A:H2'	2:AA:1228:G:C5'	2.24	0.68
2:AA:1280:G:C2'	2:AA:1281:G:O5'	2.41	0.68
2:AA:1301:A:O2'	2:AA:1302:A:OP1	2.11	0.68
2:AA:1340:U:O4	19:AT:57:THR:HG22	1.92	0.68
2:AA:1683:C:N4	2:AA:1684:C:H41	1.91	0.68
2:AA:2352:A:C8	2:AA:2366:A:N1	2.62	0.68
2:AA:2507:C:N3	2:AA:2583:G:C2	2.62	0.68
2:AA:2531:A:H2'	2:AA:2532:G:O5'	1.93	0.68
2:AA:2654:A:N6	2:AA:2667:C:N4	2.41	0.68
2:AA:2733:A:N7	2:AA:2734:A:C8	2.61	0.68
2:AA:2839:G:O2'	2:AA:2840:C:H5'	1.94	0.68
2:AA:363(D):G:H2'	2:AA:363(E):U:H6	1.57	0.68
2:AA:364:C:H2'	2:AA:365:C:C6	2.28	0.68
2:AA:364:C:N3	2:AA:365:C:N4	2.40	0.68
2:AA:468:G:O2'	2:AA:469:G:H5'	1.91	0.68
2:AA:529:A:H2'	2:AA:530:G:H8	1.57	0.68
2:AA:533:G:C5	2:AA:534:U:C4	2.81	0.68
2:AA:713:G:C6	2:AA:714:U:C5	2.81	0.68
2:AA:866:A:C2	2:AA:867:C:H6	2.11	0.68
2:AA:951:C:O2'	2:AA:952:G:C5'	2.40	0.68
1:AB:83:G:H4'	23:AX:52:HIS:CD2	2.23	0.68
3:AC:114:VAL:HG21	3:AC:153:ILE:CG1	2.24	0.68
4:AD:139:LEU:O	4:AD:139:LEU:HD12	1.92	0.68
4:AD:142:ASN:HB2	4:AD:190:THR:H	1.58	0.68
4:AD:154:VAL:HG12	4:AD:154:VAL:O	1.92	0.68
5:AE:269:ILE:CA	5:AE:297:LYS:NZ	2.53	0.68
6:AF:207:LEU:O	6:AF:209:GLY:N	2.23	0.68
8:AH:34:ARG:NH2	8:AH:74:MET:CA	2.55	0.68
9:AJ:15:VAL:HG22	9:AJ:48:ALA:CB	2.24	0.68
9:AJ:72:GLN:HA	9:AJ:75:LYS:HD2	1.75	0.68
13:AN:28:SER:O	13:AN:29:GLY:C	2.32	0.68
15:AP:48:ASN:CA	15:AP:140:TYR:OH	2.36	0.68
16:AQ:39:SER:O	16:AQ:41:LYS:N	2.26	0.68
17:AR:53:ASP:O	17:AR:56:ARG:NE	2.25	0.68
18:AS:77:ASP:O	18:AS:102:HIS:CB	2.41	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AT:69:SER:O	19:AT:70:GLU:HB2	1.92	0.68
20:AU:52:ARG:HD2	20:AU:95:ASN:CG	2.13	0.68
20:AU:44:ALA:HB1	20:AU:65:VAL:HG11	1.74	0.68
22:AW:34:GLN:OE1	22:AW:34:GLN:N	2.26	0.68
36:B1:59:A:C2'	36:B1:60:A:O5'	2.40	0.68
34:BA:1313:U:O4	54:BV:4:SER:OG	2.08	0.68
34:BA:1473:A:H2'	34:BA:1474:G:O5'	1.92	0.68
34:BA:308:C:H2'	34:BA:309:G:O5'	1.92	0.68
34:BA:439:A:H5''	34:BA:494:G:H22	1.56	0.68
34:BA:520:A:N6	34:BA:529:G:C2	2.61	0.68
39:BG:61:LYS:NZ	39:BG:65:ARG:HD2	2.08	0.68
42:BJ:65:ALA:CB	42:BJ:124:LEU:HD23	2.22	0.68
42:BJ:77:SER:O	42:BJ:156:TRP:HH2	1.75	0.68
42:BJ:46:ALA:CA	42:BJ:49:ILE:HD12	2.24	0.68
42:BJ:91:VAL:O	42:BJ:91:VAL:HG12	1.93	0.68
43:BK:18:ARG:HH22	43:BK:78:GLN:CG	2.06	0.68
43:BK:64:LYS:CD	43:BK:79:VAL:HG21	2.22	0.68
44:BL:84:ALA:O	44:BL:87:GLN:HB2	1.93	0.68
52:BT:15:MET:HB2	52:BT:18:THR:CB	2.22	0.68
54:BV:53:ASN:HD21	54:BV:58:VAL:HG13	1.58	0.68
55:BW:53:LEU:HA	55:BW:56:MET:CG	2.24	0.68
36:B1:18:U:H6	36:B1:18:U:O5'	1.75	0.68
2:AA:2899:G:H2'	2:AA:2900:A:C8	2.28	0.68
2:AA:2882:A:OP1	24:A0:96:ARG:HB2	1.93	0.68
2:AA:1216:G:P	25:A1:8:ILE:HG22	2.33	0.68
26:A2:4:ILE:C	26:A2:39:PHE:CE2	2.66	0.68
31:A7:30:ILE:HA	31:A7:33:ARG:HD2	1.74	0.68
2:AA:1058:G:N2	11:AL:117:ASN:ND2	2.41	0.68
2:AA:1458:C:H4'	2:AA:1459:G:C8	2.29	0.68
2:AA:1602:U:C4	2:AA:1602:U:OP2	2.46	0.68
2:AA:1742:C:C2'	2:AA:1743:G:O4'	2.41	0.68
2:AA:1801:G:C2	2:AA:2207:C:H4'	2.28	0.68
2:AA:1966:A:O2'	2:AA:1967:C:P	2.51	0.68
2:AA:2009:G:N3	24:A0:106:GLY:O	2.27	0.68
2:AA:2076:U:O2'	2:AA:2077:A:OP1	2.11	0.68
2:AA:2286:A:C3'	2:AA:2286:A:C8	2.76	0.68
2:AA:2371:G:C2	2:AA:2372:G:C5	2.82	0.68
2:AA:2647:U:O2'	2:AA:2648:C:H5'	1.93	0.68
2:AA:270(E):G:O2'	2:AA:270(F):U:H5'	1.92	0.68
2:AA:2732:G:H5'	2:AA:2733:A:O5'	1.92	0.68
2:AA:2785:C:H4'	5:AE:99:VAL:CG1	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2862:G:C4	2:AA:2863:C:C5	2.82	0.68
2:AA:290:G:N2	2:AA:350:U:O2	2.27	0.68
2:AA:291:C:O2'	2:AA:292:C:H5'	1.93	0.68
2:AA:412:A:N6	2:AA:2411:A:H1'	2.09	0.68
2:AA:521:G:O2'	2:AA:522:G:H5'	1.93	0.68
2:AA:559:G:H2'	2:AA:560:C:O4'	1.93	0.68
2:AA:583:G:O2'	2:AA:584:C:H5'	1.92	0.68
2:AA:648:G:C2'	2:AA:649:G:H8	1.92	0.68
2:AA:2712:U:C3'	2:AA:712(A):A:H5''	2.23	0.68
2:AA:853:G:O2'	2:AA:854:G:H5'	1.93	0.68
2:AA:969:U:C2'	2:AA:970:C:H6	2.07	0.68
2:AA:988:A:P	23:AX:11:SER:HB2	2.34	0.68
4:AD:203:PRO:C	4:AD:204:PHE:HD1	1.95	0.68
5:AE:210:THR:HG22	5:AE:255:GLN:HG2	1.75	0.68
2:AA:2572:A:N7	5:AE:241:TRP:CG	2.62	0.68
5:AE:44:TYR:CZ	5:AE:308:VAL:HG13	2.28	0.68
7:AG:20:LYS:CE	7:AG:76:ARG:HE	2.05	0.68
8:AH:101:LYS:HD3	8:AH:113:GLU:OE2	1.93	0.68
8:AH:10:ILE:HD12	8:AH:49:ILE:CG1	2.24	0.68
10:AK:25:TYR:C	10:AK:29:PHE:CE1	2.67	0.68
10:AK:47:LEU:HG	10:AK:48:GLU:N	2.08	0.68
11:AL:42:PHE:HZ	11:AL:58:ILE:HD11	1.59	0.68
13:AN:25:LEU:HD21	13:AN:40:VAL:HG23	1.76	0.68
14:AO:141:GLU:HB2	14:AO:145:LEU:HD13	1.74	0.68
16:AQ:21:HIS:CD2	16:AQ:24:LEU:HG	2.28	0.68
18:AS:8:ARG:HG3	18:AS:102:HIS:ND1	2.08	0.68
20:AU:71:VAL:CG2	20:AU:93:THR:HG23	2.24	0.68
21:AV:1:MET:N	21:AV:54:ILE:HD12	2.09	0.68
21:AV:19:ILE:HB	21:AV:39:PHE:CE1	2.27	0.68
21:AV:72:ASP:OD1	21:AV:79:ILE:O	2.10	0.68
34:BA:1094:G:H2'	34:BA:1108:G:N2	2.07	0.68
34:BA:112:G:C4'	34:BA:389:A:H5''	2.24	0.68
34:BA:112:G:O2'	34:BA:113:G:H5'	1.94	0.68
34:BA:1292:U:OP2	34:BA:1292:U:H6	1.77	0.68
34:BA:254:G:H4'	52:BT:18:THR:HG21	1.75	0.68
34:BA:263:A:C2'	34:BA:264:U:H5''	2.23	0.68
34:BA:300:A:O2'	34:BA:301:G:H5'	1.93	0.68
34:BA:357:G:OP1	34:BA:367:U:C3'	2.39	0.68
34:BA:459:G:N2	34:BA:463:A:N6	2.39	0.68
34:BA:47:C:O2'	34:BA:48:C:OP2	2.09	0.68
34:BA:499:A:H4'	34:BA:500:G:H5'	1.73	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:571:U:H5''	34:BA:572:A:OP2	1.94	0.68
34:BA:686:U:H2'	34:BA:686:U:O2	1.91	0.68
34:BA:840:C:H5'	34:BA:848:C:C2	2.29	0.68
39:BG:122:ARG:HA	39:BG:122:ARG:HE	1.57	0.68
39:BG:64:LEU:HD13	39:BG:65:ARG:N	2.09	0.68
46:BN:23:ALA:HB1	46:BN:28:THR:OG1	1.93	0.68
46:BN:42:TRP:HE3	46:BN:43:SER:HA	1.59	0.68
48:BP:104:ARG:HG2	48:BP:105:THR:CG2	2.23	0.68
53:BU:21:LYS:HE2	53:BU:57:GLY:CA	2.22	0.68
56:BX:10:ARG:O	56:BX:13:ILE:HB	1.93	0.68
36:B1:36:A:C5	36:B1:37:C:H1'	2.28	0.68
47:BO:17:LYS:HZ2	47:BO:17:LYS:HA	1.57	0.68
2:AA:1248:G:C8	25:A1:2:PRO:HB3	2.28	0.68
25:A1:40:LEU:HD21	26:A2:83:ARG:CZ	2.22	0.68
26:A2:1:MET:O	26:A2:15:SER:CB	2.40	0.68
27:A3:43:THR:O	27:A3:64:ASP:HB3	1.94	0.68
31:A7:20:ALA:HA	31:A7:23:LYS:CD	2.24	0.68
32:A8:20:GLY:O	32:A8:57:ARG:NH2	2.27	0.68
2:AA:1060:U:H5''	2:AA:1061:U:O4	1.93	0.68
2:AA:1091:G:N1	2:AA:1101:U:C4	2.61	0.68
2:AA:128:C:H2'	2:AA:129:C:C6	2.27	0.68
2:AA:1530:G:C5	2:AA:1542:G:N7	2.61	0.68
2:AA:1351:C:O2'	2:AA:1571:A:H1'	1.92	0.68
2:AA:1630:G:C5	2:AA:630(A):C:C5	2.81	0.68
2:AA:2143:C:N3	2:AA:2148:G:O6	2.26	0.68
2:AA:2250:G:N7	15:AP:101:MET:HE3	2.09	0.68
2:AA:2334:G:H1'	16:AQ:21:HIS:HD1	1.57	0.68
2:AA:244:A:H1'	2:AA:255:A:H61	1.56	0.68
2:AA:2485:G:HO2'	2:AA:2486:G:H5'	1.57	0.68
2:AA:2706:G:N1	2:AA:2707:G:C5	2.61	0.68
2:AA:2738:A:N1	2:AA:2739:U:O2	2.27	0.68
2:AA:27:G:N2	2:AA:512:G:C2'	2.55	0.68
2:AA:618:G:C5	2:AA:618(A):C:N4	2.61	0.68
2:AA:668:G:H2'	2:AA:670:A:N7	2.08	0.68
2:AA:770:G:H5'	31:A7:10:ARG:NH1	2.08	0.68
2:AA:807:U:H2'	2:AA:808:G:C8	2.28	0.68
3:AC:75:LEU:CD1	3:AC:93:TYR:HB2	2.22	0.68
4:AD:104:ILE:O	4:AD:104:ILE:HD12	1.93	0.68
4:AD:158:GLY:N	4:AD:196:ASN:HD21	1.90	0.68
5:AE:176:HIS:HA	5:AE:179:ASP:OD1	1.94	0.68
8:AH:100:LYS:O	8:AH:100:LYS:HG3	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AO:122:ALA:HB3	14:AO:125:PHE:CZ	2.28	0.68
17:AR:22:VAL:HA	17:AR:29:THR:OG1	1.94	0.68
18:AS:40:ASN:O	18:AS:41:LYS:O	2.11	0.68
19:AT:30:ASP:CA	19:AT:62:LYS:HD2	2.20	0.68
34:BA:1121:U:O5'	34:BA:1121:U:H6	1.75	0.68
34:BA:1310:G:N1	34:BA:1328:C:C4	2.61	0.68
34:BA:294:U:H2'	34:BA:295:C:C6	2.28	0.68
34:BA:659:U:OP1	50:BR:9:GLN:NE2	2.27	0.68
35:BB:7:U:O4	35:BB:67:A:N6	2.26	0.68
39:BG:25:ARG:HH21	39:BG:30:LYS:CE	2.06	0.68
40:BH:91:LEU:HD21	40:BH:118:ILE:HG21	1.75	0.68
41:BI:75:LEU:HD13	41:BI:79:LEU:HD21	1.76	0.68
43:BK:44:PHE:HA	43:BK:79:VAL:CG1	2.23	0.68
43:BK:98:LYS:O	43:BK:100:ILE:HD12	1.92	0.68
46:BN:27:ASN:ND2	46:BN:55:LYS:HZ2	1.90	0.68
47:BO:37:CYS:HA	47:BO:57:LYS:O	1.94	0.68
47:BO:56:ALA:HB2	47:BO:70:ILE:HG12	1.76	0.68
48:BP:96:LEU:HB2	48:BP:97:PRO:HD2	1.76	0.68
49:BQ:41:ARG:HA	49:BQ:44:LEU:HD23	1.75	0.68
38:BF:33:LEU:HD21	49:BQ:54:PRO:CD	2.24	0.68
53:BU:41:LYS:O	53:BU:44:LEU:HD22	1.94	0.68
53:BU:40:LEU:C	53:BU:42:ARG:N	2.44	0.68
53:BU:47:THR:N	53:BU:49:LYS:NZ	2.41	0.68
35:BB:26:G:N2	35:BB:27:C:H1'	2.08	0.68
35:BB:28:C:HO2'	35:BB:29:A:H5'	1.57	0.68
10:AK:115:ILE:O	10:AK:132:LYS:CE	2.42	0.68
10:AK:78:THR:HG22	10:AK:144:HIS:CE1	2.28	0.68
35:BB:9:A:N6	35:BB:22:G:H8	1.92	0.68
2:AA:1041:C:N4	2:AA:1114:G:H1	1.86	0.68
25:A1:9:VAL:HG12	25:A1:13:ARG:HH22	1.57	0.68
2:AA:1152:C:H5''	25:A1:80:ILE:HG22	1.76	0.68
30:A6:30:ASN:OD1	30:A6:31:THR:HG23	1.92	0.68
2:AA:1005:C:H1'	12:AM:21:ARG:CG	2.23	0.68
2:AA:1102:C:H1'	2:AA:1103:A:N7	2.09	0.68
2:AA:1353:A:C6	2:AA:1378:A:C6	2.82	0.68
2:AA:1358:G:C2'	2:AA:1373:A:H61	2.07	0.68
2:AA:137:C:N4	2:AA:142:G:H1	1.91	0.68
2:AA:137(A):G:O6	2:AA:139:G:N1	2.27	0.68
2:AA:1479:G:N2	2:AA:1514:U:O2	2.26	0.68
2:AA:154:G:C2	2:AA:155:C:C1'	2.76	0.68
2:AA:2041:U:C2'	2:AA:2042:A:C5'	2.66	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2404:C:C6	2:AA:2414:G:N2	2.62	0.68
2:AA:826:U:OP1	2:AA:2429:G:OP1	2.11	0.68
2:AA:2663:G:H2'	2:AA:2664:G:O4'	1.92	0.68
2:AA:273(B):C:N3	2:AA:363(D):G:O6	2.27	0.68
2:AA:2872:G:N2	2:AA:2873:A:H61	1.91	0.68
2:AA:2835:A:N6	2:AA:2878:U:H3'	2.09	0.68
2:AA:641:C:C2'	2:AA:642:G:O4'	2.42	0.68
2:AA:656:G:O2'	2:AA:657:U:H5'	1.93	0.68
2:AA:759:G:O2'	2:AA:760:G:H5'	1.93	0.68
2:AA:685:A:C2	2:AA:774:A:C2	2.81	0.68
2:AA:978:G:N2	2:AA:986:C:N3	2.41	0.68
1:AB:71:C:H2'	1:AB:72:G:C8	2.29	0.68
2:AA:2122:U:C2'	3:AC:166:ASP:HB2	2.23	0.68
5:AE:200:ASP:CG	5:AE:264:LEU:HA	2.13	0.68
6:AF:195:VAL:HG21	6:AF:235:PHE:CD2	2.29	0.68
9:AI:103:LYS:HD3	9:AI:114:ILE:HG12	1.75	0.68
13:AN:22:ILE:HG13	13:AN:41:ALA:CA	2.20	0.68
16:AQ:59:ALA:HB3	16:AQ:91:ARG:HH12	1.57	0.68
17:AR:50:GLU:CA	17:AR:55:ALA:HB3	2.24	0.68
21:AV:45:GLN:NE2	21:AV:45:GLN:N	2.42	0.68
23:AX:26:LEU:CD2	23:AX:46:ASN:HD22	2.07	0.68
34:BA:1115:C:H42	34:BA:1185:G:H1	1.40	0.68
34:BA:1214:C:O2	34:BA:1214:C:H2'	1.92	0.68
34:BA:126:G:N2	34:BA:127:G:C4	2.62	0.68
2:AA:1920:C:H5''	34:BA:1517:G:N7	2.09	0.68
34:BA:357:G:O2'	34:BA:358:U:H5'	1.94	0.68
34:BA:596:C:N4	34:BA:644:G:H1	1.91	0.68
34:BA:659:U:O2'	34:BA:660:G:H5'	1.93	0.68
35:BC:10:G:N2	35:BC:11:C:C2	2.61	0.68
37:BE:187:LEU:HD13	37:BE:187:LEU:C	2.13	0.68
37:BE:77:ALA:CB	37:BE:211:ILE:HD13	2.24	0.68
37:BE:53:ARG:HG2	37:BE:199:TYR:CE2	2.27	0.68
37:BE:60:ASP:HA	37:BE:63:MET:SD	2.34	0.68
39:BG:29:PRO:HA	39:BG:34:GLU:HG2	1.74	0.68
43:BK:18:ARG:HD2	43:BK:18:ARG:H	1.58	0.68
45:BM:3:LYS:HG3	45:BM:75:ILE:HA	1.74	0.68
44:BL:114:TYR:HB3	45:BM:60:ARG:HH12	1.57	0.68
41:BI:50:TYR:OH	53:BU:74:ARG:O	2.07	0.68
35:BB:39:U:H2'	35:BB:40:C:C6	2.28	0.68
10:AK:124:LEU:HD21	10:AK:147:GLU:N	2.08	0.68
26:A2:6:GLN:OE1	26:A2:10:LYS:HG2	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A1:98:ILE:CD1	26:A2:13:ARG:HE	2.03	0.68
2:AA:1005:C:H5	2:AA:1143:A:H5''	1.56	0.68
2:AA:1011:G:H2'	2:AA:1013:C:H5'	1.74	0.68
2:AA:1102:C:O2'	2:AA:1103:A:O5'	2.11	0.68
2:AA:133:C:H2'	2:AA:134:C:C6	2.28	0.68
2:AA:1373:A:H2'	2:AA:1374:G:C8	2.29	0.68
2:AA:1779:U:C5	2:AA:1784:A:C2	2.82	0.68
2:AA:1798:U:C4	2:AA:1819:A:C2	2.82	0.68
2:AA:1802:A:H61	2:AA:1822:G:H1'	1.57	0.68
2:AA:1823:G:H2'	2:AA:1824:G:O5'	1.94	0.68
2:AA:1890:A:H8	2:AA:1890:A:O5'	1.77	0.68
2:AA:2262:U:C2'	2:AA:2263:C:H5'	2.23	0.68
2:AA:2303:G:C2	2:AA:2304:G:C5	2.81	0.68
2:AA:2332:U:O2'	2:AA:2333:A:H5'	1.94	0.68
2:AA:233:A:H2'	2:AA:234:C:H6	1.59	0.68
2:AA:2422:A:C2'	2:AA:2424:C:H5	2.06	0.68
2:AA:2511:U:C5	2:AA:2512:C:C5	2.82	0.68
2:AA:2588:G:N7	2:AA:2589:A:C8	2.62	0.68
2:AA:2698:U:H2'	2:AA:2699:C:C6	2.28	0.68
2:AA:2783:G:H2'	2:AA:2784:C:H6	1.58	0.68
2:AA:288:C:H3'	2:AA:288:C:C6	2.28	0.68
2:AA:304:G:N2	2:AA:313:C:N3	2.40	0.68
2:AA:378:C:N3	2:AA:396:G:O6	2.26	0.68
2:AA:639:U:H3	2:AA:649:G:H1	1.40	0.68
2:AA:771:G:C4	2:AA:772:C:C5	2.81	0.68
2:AA:784:A:OP1	2:AA:2588:G:H5''	1.94	0.68
2:AA:830:G:O2'	2:AA:831:G:OP1	2.10	0.68
1:AB:9:G:N2	1:AB:111:U:O2	2.26	0.68
3:AC:128:GLY:HA2	3:AC:137:LEU:CD2	2.24	0.68
3:AC:193:ILE:HD13	3:AC:226:PRO:O	1.94	0.68
3:AC:14:VAL:HG21	3:AC:32:LEU:HD11	1.75	0.68
3:AC:34:THR:O	3:AC:35:ALA:O	2.11	0.68
3:AC:76:ALA:CB	3:AC:94:VAL:HG22	2.18	0.68
5:AE:216:ARG:C	5:AE:217:TRP:CD1	2.67	0.68
5:AE:240:PRO:HB2	5:AE:243:PRO:HG3	1.75	0.68
6:AF:205:ARG:CG	6:AF:212:VAL:HG21	2.23	0.68
2:AA:2749:A:O4'	8:AH:62:ALA:HA	1.94	0.68
9:AJ:62:VAL:HG13	9:AJ:100:ALA:O	1.94	0.68
13:AN:35:ILE:CD1	13:AN:69:VAL:HG21	2.23	0.68
13:AN:64:ARG:CD	13:AN:81:GLU:OE1	2.32	0.68
14:AO:141:GLU:C	14:AO:145:LEU:HD13	2.14	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:142:LYS:CG	15:AP:143:VAL:N	2.54	0.68
16:AQ:36:ALA:HB2	16:AQ:118:ILE:HD13	1.76	0.68
20:AU:51:LEU:HD13	20:AU:95:ASN:O	1.94	0.68
34:BA:946:A:N6	34:BA:1236:A:C6	2.61	0.68
34:BA:1350:A:H2'	34:BA:1351:U:H6	1.58	0.68
34:BA:1418:A:N7	34:BA:1482:G:N2	2.41	0.68
34:BA:1461:G:O2'	34:BA:1462:G:H5'	1.93	0.68
34:BA:143:A:H2	34:BA:220:G:H1	1.40	0.68
34:BA:258:G:C2	34:BA:259:G:N7	2.61	0.68
34:BA:644:G:O2'	34:BA:645:C:H5'	1.93	0.68
34:BA:64:G:H5'	34:BA:66:G:OP1	1.94	0.68
34:BA:720:C:H5	34:BA:721:G:H2'	1.56	0.68
34:BA:21:G:C2	34:BA:915:A:N6	2.62	0.68
35:BB:8:U:C5	35:BB:13:C:C4	2.81	0.68
37:BE:97:TRP:NE1	37:BE:101:MET:SD	2.66	0.68
37:BE:163:PHE:HB2	37:BE:185:ILE:HD12	1.75	0.68
38:BF:182:ILE:CG1	38:BF:203:PHE:HD1	2.05	0.68
39:BG:92:VAL:HG12	39:BG:96:LEU:HD11	1.74	0.68
40:BH:41:VAL:HG21	40:BH:113:ALA:CA	2.24	0.68
42:BJ:122:HIS:CD2	42:BJ:122:HIS:H	2.11	0.68
42:BJ:17:VAL:HG12	42:BJ:18:TYR:CD1	2.28	0.68
34:BA:1060:C:C5'	45:BM:51:ARG:HB3	2.24	0.68
46:BN:46:GLY:H	46:BN:55:LYS:CD	2.06	0.68
48:BP:90:LEU:O	48:BP:93:ARG:CB	2.41	0.68
50:BR:60:VAL:O	50:BR:63:ARG:HB2	1.94	0.68
53:BU:43:PHE:O	53:BU:51:LEU:CD1	2.42	0.68
55:BW:14:LYS:O	55:BW:15:ARG:C	2.32	0.68
56:BX:9:ARG:O	56:BX:10:ARG:C	2.31	0.68
2:AA:1508:A:H8	2:AA:1509:C:OP2	1.75	0.68
10:AK:69:LYS:O	10:AK:73:GLU:HG3	1.93	0.68
25:A1:21:ALA:HA	25:A1:24:PHE:CE2	2.29	0.68
25:A1:37:GLN:O	25:A1:40:LEU:N	2.27	0.68
25:A1:63:GLN:O	25:A1:65:ILE:N	2.27	0.68
31:A7:24:THR:OG1	31:A7:25:LYS:N	2.26	0.68
2:AA:1263:U:C6	2:AA:1264:G:N1	2.61	0.68
2:AA:1352:U:C2'	2:AA:1352:U:O2	2.41	0.68
2:AA:154:G:N1	2:AA:155:C:H1'	2.07	0.68
2:AA:1550:C:H2'	2:AA:1551:C:C6	2.28	0.68
2:AA:1699:G:O6	2:AA:1763:G:O4'	2.12	0.68
2:AA:1779:U:H5	2:AA:1784:A:C2	2.12	0.68
2:AA:1778:U:C4	2:AA:1784:A:N3	2.61	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:184:C:H2'	2:AA:185:U:C6	2.29	0.68
2:AA:1907:G:C2	2:AA:1908:C:C4	2.82	0.68
2:AA:1937:A:C3'	2:AA:1938:A:C5'	2.71	0.68
2:AA:2111:C:H3'	2:AA:2117:A:H62	1.57	0.68
2:AA:2122:U:H2'	2:AA:2123:G:H5'	1.76	0.68
2:AA:2132:U:O5'	3:AC:5:LYS:HA	1.93	0.68
2:AA:2147:G:C2'	2:AA:2148:G:H5'	2.22	0.68
2:AA:2123:G:O6	2:AA:2175:C:C4	2.47	0.68
2:AA:2093:G:N7	2:AA:2225:A:N7	2.42	0.68
2:AA:2225:A:O2'	2:AA:2226:C:OP2	2.12	0.68
2:AA:2468:G:C2	2:AA:2481:G:N3	2.61	0.68
2:AA:2694:G:C6	2:AA:2695:C:C4	2.82	0.68
2:AA:270(Z):U:O2	2:AA:270(Z):U:H2'	1.93	0.68
2:AA:2819:G:C3'	2:AA:2821:A:H62	2.04	0.68
2:AA:283:A:N7	2:AA:284:U:C5	2.62	0.68
2:AA:360:G:O2'	2:AA:361:G:O4'	2.10	0.68
2:AA:366:C:O2	2:AA:366:C:H2'	1.92	0.68
2:AA:371:A:C8	2:AA:424:G:OP1	2.47	0.68
2:AA:458:G:C2'	2:AA:469:G:N1	2.57	0.68
2:AA:729:G:H1'	2:AA:763:G:H4'	1.76	0.68
2:AA:860:U:C4	2:AA:917:A:N1	2.62	0.68
1:AB:113:C:O2'	16:AQ:56:ASP:OD1	2.12	0.68
3:AC:32:LEU:HD13	3:AC:220:PRO:CB	2.20	0.68
3:AC:75:LEU:CD1	3:AC:107:TRP:HH2	2.06	0.68
5:AE:211:GLN:CG	5:AE:212:GLY:N	2.42	0.68
6:AF:163:HIS:O	6:AF:166:ILE:HB	1.94	0.68
1:AB:59:A:H5'	7:AG:144:ARG:CD	2.23	0.68
8:AH:148:ARG:HA	8:AH:161:ILE:HD12	1.75	0.68
13:AN:10:VAL:HG22	13:AN:16:ALA:HB3	1.76	0.68
15:AP:144:THR:OG1	15:AP:145:PRO:HD3	1.93	0.68
20:AU:101:LEU:HD21	20:AU:112:LEU:CG	2.23	0.68
20:AU:51:LEU:HD12	20:AU:97:ARG:HG2	1.76	0.68
21:AV:18:MET:HA	21:AV:35:ASP:CA	2.23	0.68
21:AV:2:GLU:O	21:AV:3:LEU:O	2.12	0.68
21:AV:60:GLU:O	21:AV:62:PHE:N	2.26	0.68
21:AV:71:MET:CB	21:AV:78:PRO:HD3	2.18	0.68
22:AW:45:ARG:HE	22:AW:49:LEU:HD11	1.59	0.68
34:BA:101:A:H2'	34:BA:102:G:H8	1.58	0.68
34:BA:1054:C:O2'	34:BA:1055:A:H5''	1.94	0.68
34:BA:954:G:N2	34:BA:1227:A:N6	2.41	0.68
34:BA:310:G:OP2	51:BS:27:LYS:HE2	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:25:C:H4'	34:BA:524:G:H21	1.59	0.68
34:BA:878:G:H2'	34:BA:879:C:C6	2.28	0.68
38:BF:132:ARG:O	38:BF:136:GLN:HG3	1.94	0.68
39:BG:200:GLU:O	39:BG:201:GLN:C	2.32	0.68
40:BH:11:ILE:CG2	40:BH:12:LEU:N	2.55	0.68
41:BI:91:VAL:HG12	41:BI:92:LYS:O	1.93	0.68
42:BJ:152:ALA:O	42:BJ:154:TYR:N	2.27	0.68
42:BJ:155:ARG:O	42:BJ:156:TRP:HB3	1.93	0.68
42:BJ:15:ASP:OD2	42:BJ:23:VAL:HG11	1.93	0.68
42:BJ:94:ARG:NH1	42:BJ:98:SER:OG	2.27	0.68
43:BK:40:ALA:HB2	43:BK:45:ILE:CG1	2.23	0.68
43:BK:6:ILE:C	43:BK:6:ILE:HD13	2.13	0.68
47:BO:33:ARG:O	47:BO:84:LEU:HG	1.94	0.68
48:BP:24:GLY:HA3	48:BP:66:LEU:CB	2.24	0.68
48:BP:77:ASN:O	48:BP:80:ARG:HD3	1.93	0.68
50:BR:43:LEU:O	50:BR:45:VAL:O	2.11	0.68
50:BR:62:GLN:CD	50:BR:65:ARG:NH2	2.47	0.68
51:BS:39:TYR:CE2	51:BS:41:PRO:HG3	2.28	0.68
51:BS:56:ALA:O	51:BS:60:LEU:HG	1.94	0.68
52:BT:3:LYS:O	52:BT:4:LYS:O	2.12	0.68
55:BW:26:ASN:HD22	55:BW:27:LYS:N	1.92	0.68
56:BX:3:LYS:HD3	56:BX:14:TRP:CD1	2.29	0.68
35:BB:26:G:O6	35:BB:44:A:N1	2.27	0.68
35:BB:38:A:C2'	35:BB:39:U:H5'	2.24	0.68
35:BB:23:A:N1	35:BB:24:G:N1	2.42	0.68
37:BE:132:LYS:H	37:BE:132:LYS:HE2	1.58	0.68
14:AO:82:ALA:O	14:AO:83:GLU:C	2.29	0.68
2:AA:445:C:OP1	25:A1:2:PRO:HD2	1.94	0.68
25:A1:57:PHE:N	25:A1:60:LEU:HD12	2.09	0.68
26:A2:57:GLN:O	26:A2:58:ALA:HB2	1.92	0.68
28:A4:5:LEU:O	28:A4:7:PRO:N	2.27	0.68
30:A6:16:ALA:O	30:A6:18:THR:N	2.27	0.68
2:AA:2419:U:H5''	30:A6:24:THR:HG22	1.74	0.68
2:AA:1019:U:OP1	2:AA:1120:G:N2	2.22	0.68
2:AA:1127:A:H2'	2:AA:1128:A:OP2	1.94	0.68
2:AA:1181:C:O2'	2:AA:1182:A:H8	1.76	0.68
2:AA:1203:G:O2'	2:AA:1241:A:H2	1.70	0.68
2:AA:1343:G:N2	2:AA:1405:U:C2	2.62	0.68
2:AA:1378:A:O2'	2:AA:1379:A:OP1	2.12	0.68
2:AA:1426:G:H5''	2:AA:1427:A:H5''	1.75	0.68
2:AA:1444:G:H2'	2:AA:1445:C:H5	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1478:G:H1	2:AA:1515:C:H42	1.42	0.68
2:AA:1470:G:C2	2:AA:1520:U:N3	2.61	0.68
2:AA:1522:G:O2'	2:AA:1523:U:H5'	1.93	0.68
2:AA:1561:G:O2'	2:AA:1562:A:H5'	1.94	0.68
2:AA:1687:G:N2	2:AA:1688:U:C2	2.61	0.68
2:AA:1741:C:H2'	2:AA:1742:C:H5'	1.75	0.68
2:AA:1785:A:H5''	2:AA:1785:A:H8	1.58	0.68
2:AA:2186:G:N2	2:AA:2187:G:C6	2.62	0.68
2:AA:412:A:N6	2:AA:2410:G:N2	2.42	0.68
2:AA:253:C:C2'	2:AA:254:G:H5'	2.23	0.68
2:AA:562:U:HO2'	2:AA:563:G:H5''	1.56	0.68
2:AA:572:A:N7	2:AA:573:G:C4	2.62	0.68
2:AA:67:U:H2'	2:AA:68:G:C8	2.29	0.68
2:AA:783:A:N1	2:AA:785:G:C1'	2.49	0.68
6:AF:223:LEU:HA	6:AF:225:PRO:HG2	1.74	0.68
9:AI:60:ASP:N	9:AI:128:LYS:HE3	2.09	0.68
12:AM:10:VAL:HG11	12:AM:36:VAL:HG22	1.75	0.68
13:AN:71:ARG:O	13:AN:73:ASP:N	2.23	0.68
15:AP:64:ALA:HB1	15:AP:142:LYS:HG3	1.76	0.68
16:AQ:81:ALA:CB	16:AQ:117:ALA:HB1	2.22	0.68
16:AQ:19:ASP:O	16:AQ:20:TYR:C	2.32	0.68
16:AQ:9:PRO:HA	16:AQ:13:ARG:NH1	2.09	0.68
18:AS:88:ARG:HB3	18:AS:91:GLY:O	1.94	0.68
22:AW:43:PRO:HB2	22:AW:46:ILE:CG1	2.24	0.68
22:AW:53:ILE:HA	22:AW:56:ILE:HD12	1.74	0.68
34:BA:1085:U:O4'	34:BA:1094:G:C2	2.46	0.68
34:BA:109:A:H5'	34:BA:110:C:OP2	1.94	0.68
34:BA:1191:A:H5''	38:BF:4:LYS:NZ	2.09	0.68
34:BA:160:A:N6	34:BA:161:A:C6	2.62	0.68
34:BA:509:A:C2'	34:BA:510:A:C8	2.70	0.68
34:BA:676:A:H2'	34:BA:677:U:H6	1.58	0.68
34:BA:878:G:H2'	34:BA:879:C:H6	1.59	0.68
34:BA:880:C:H2'	34:BA:881:G:O5'	1.93	0.68
35:BB:66:A:H2'	35:BB:67:A:C8	2.29	0.68
2:AA:2252:G:H1	35:BC:74:C:N4	1.91	0.68
37:BE:22:LYS:O	37:BE:24:TRP:HD1	1.75	0.68
39:BG:152:SER:O	39:BG:158:ILE:HG13	1.94	0.68
39:BG:40:PRO:O	39:BG:44:GLY:HA3	1.93	0.68
41:BI:11:ASN:OD1	41:BI:13:ASN:N	2.27	0.68
42:BJ:36:LYS:CB	42:BJ:36:LYS:HZ2	2.06	0.68
43:BK:90:GLY:O	52:BT:34:LYS:HB2	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BM:8:LEU:HD22	45:BM:94:VAL:CG1	2.23	0.68
47:BO:53:ARG:HG2	47:BO:53:ARG:HH11	1.59	0.68
8:AH:167:LEU:N	8:AH:167:LEU:CD2	2.56	0.68
9:AJ:7:ILE:HG22	9:AJ:11:GLU:OE2	1.94	0.68
10:AK:126:TYR:N	10:AK:126:TYR:CD1	2.62	0.68
24:A0:99:LYS:HB3	29:A5:44:HIS:NE2	2.08	0.68
2:AA:1084:A:O2'	9:AI:26:GLU:HA	1.93	0.68
2:AA:1246:A:N6	2:AA:1247:A:C6	2.62	0.68
2:AA:1314:C:OP1	2:AA:1332:G:H5'	1.94	0.68
2:AA:1461:G:H2'	2:AA:1462:C:H6	1.57	0.68
2:AA:1528:A:N6	2:AA:1543:A:N6	2.22	0.68
2:AA:1602:U:C2'	2:AA:1603:A:O5'	2.38	0.68
2:AA:1798:U:H6	2:AA:1798:U:O5'	1.77	0.68
2:AA:2080:G:H2'	2:AA:2081:C:C6	2.29	0.68
2:AA:2090:G:C6	2:AA:2230:G:O6	2.47	0.68
2:AA:2189:U:O2'	2:AA:2190:G:C5'	2.41	0.68
2:AA:2259:G:C2	2:AA:2282:G:C6	2.82	0.68
2:AA:2275:C:O2	15:AP:103:ALA:CB	2.42	0.68
2:AA:2314:C:O2'	2:AA:2315:G:H5'	1.93	0.68
2:AA:2464:C:C2'	2:AA:2465:C:O5'	2.41	0.68
2:AA:2675:A:N1	2:AA:2732:G:N2	2.38	0.68
2:AA:2692:C:N4	2:AA:2717:G:H1	1.91	0.68
2:AA:2845:G:H2'	2:AA:2846:G:H8	1.59	0.68
2:AA:532:A:H3'	2:AA:533:G:O4'	1.94	0.68
2:AA:609:A:C6	2:AA:609(A):G:O6	2.47	0.68
2:AA:620:G:OP2	2:AA:620:G:O4'	2.12	0.68
2:AA:866:A:N6	2:AA:914:C:C5	2.61	0.68
1:AB:40:U:O2'	1:AB:41:U:OP1	2.09	0.68
1:AB:68:C:C6	1:AB:69:G:C8	2.81	0.68
1:AB:78:A:O2'	1:AB:79:C:H5'	1.93	0.68
1:AB:83:G:N2	1:AB:84:C:C2	2.62	0.68
4:AD:208:GLY:O	4:AD:209:ASN:C	2.32	0.68
4:AD:73:ILE:O	4:AD:116:MET:SD	2.52	0.68
5:AE:205:THR:HA	5:AE:261:ARG:HD2	1.74	0.68
6:AF:88:SER:O	6:AF:89:ALA:CB	2.42	0.68
8:AH:82:TYR:CE2	8:AH:137:LYS:HB3	2.30	0.68
8:AH:47:ASN:ND2	8:AH:48:VAL:HG22	2.08	0.68
8:AH:82:TYR:CZ	8:AH:137:LYS:HB3	2.29	0.68
9:AI:74:ILE:O	9:AI:78:ARG:HG3	1.94	0.68
10:AK:32:LYS:O	10:AK:33:GLN:C	2.31	0.68
11:AL:106:GLU:O	11:AL:110:LYS:HG3	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:68:GLY:CA	13:AN:78:ARG:NE	2.22	0.68
14:AO:76:LEU:HB3	14:AO:81:VAL:HG21	1.76	0.68
18:AS:88:ARG:HA	18:AS:93:ALA:HA	1.74	0.68
19:AT:16:ASN:HB2	19:AT:20:PHE:CE2	2.29	0.68
20:AU:65:VAL:HA	20:AU:72:ILE:HD13	1.74	0.68
21:AV:6:LYS:NZ	21:AV:30:VAL:HG11	2.08	0.68
23:AX:41:PRO:HA	23:AX:44:ARG:HB3	1.75	0.68
36:B1:52:A:H2'	36:B1:53:G:C8	2.25	0.68
34:BA:1048:G:H1	34:BA:1209:C:H42	0.73	0.68
34:BA:1239:A:N6	34:BA:1299:A:N6	2.41	0.68
34:BA:129(A):G:H4'	34:BA:130:A:O5'	1.93	0.68
34:BA:1314:C:N4	54:BV:4:SER:CB	2.57	0.68
34:BA:309:G:O2'	34:BA:310:G:C5'	2.42	0.68
34:BA:437:U:H2'	34:BA:438:G:H5'	1.73	0.68
34:BA:44:G:H2'	34:BA:45:U:O5'	1.92	0.68
34:BA:772:U:O2'	34:BA:773:G:C5'	2.42	0.68
34:BA:818:G:N2	34:BA:820:U:N3	2.42	0.68
35:BB:66:A:C3'	35:BB:67:A:C8	2.65	0.68
35:BC:17:U:H5''	35:BC:18:G:H3'	1.77	0.68
37:BE:88:ALA:HB2	37:BE:219:VAL:CG2	2.14	0.68
38:BF:58:GLU:H	38:BF:65:ALA:HB3	1.59	0.68
39:BG:130:GLY:HA3	39:BG:131:ARG:NH1	2.09	0.68
39:BG:198:VAL:O	39:BG:199:ASN:HB3	1.93	0.68
41:BI:98:LEU:HD22	41:BI:101:ALA:HB2	1.74	0.68
34:BA:1343:G:C4'	44:BL:122:ALA:HB3	2.22	0.68
44:BL:37:PHE:N	44:BL:37:PHE:HD2	1.91	0.68
46:BN:12:ARG:HB3	46:BN:75:TYR:CD2	2.29	0.68
46:BN:23:ALA:HB2	46:BN:28:THR:HG23	1.76	0.68
46:BN:48:ILE:HD11	46:BN:64:ALA:HA	1.76	0.68
47:BO:101:VAL:O	47:BO:104:VAL:HG23	1.94	0.68
48:BP:14:ARG:HA	48:BP:44:ARG:CA	2.19	0.68
36:B1:36:A:O5'	36:B1:36:A:H8	1.76	0.68
36:B1:43:C:OP1	53:BU:19:LYS:NZ	2.22	0.68
24:A0:47:PHE:CZ	24:A0:51:LEU:HD11	2.29	0.67
25:A1:99:ALA:HA	25:A1:106:PHE:HB2	1.74	0.67
26:A2:65:ARG:NH1	26:A2:94:LYS:HZ3	1.93	0.67
2:AA:1012:U:H2'	2:AA:1142:U:C4	2.30	0.67
2:AA:1109:C:C5	2:AA:1110:G:C2	2.82	0.67
2:AA:1156:A:C2	25:A1:51:ARG:NH2	2.62	0.67
2:AA:1229:G:C6	2:AA:1230:C:O2	2.47	0.67
2:AA:139:G:H3'	2:AA:141(A):C:C1'	2.22	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1498:C:O2	2:AA:1499:C:C5	2.47	0.67
2:AA:1524:G:H2'	2:AA:1525:G:O4'	1.94	0.67
2:AA:1534:G:C2	2:AA:1538:G:H1'	2.29	0.67
2:AA:1655:A:H4'	5:AE:211:GLN:CA	2.23	0.67
2:AA:1894:C:HO2'	2:AA:1895:C:C5'	2.07	0.67
2:AA:1977:A:C2	2:AA:1978:A:C4	2.82	0.67
2:AA:2058:A:C2	2:AA:2059:A:C5	2.82	0.67
2:AA:2343:C:O2'	2:AA:2344:U:C5'	2.35	0.67
2:AA:2346:A:O4'	2:AA:2383:G:C1'	2.42	0.67
2:AA:2558:C:N3	2:AA:2559:C:C5	2.63	0.67
2:AA:270(P):C:OP2	10:AK:45:LYS:HD3	1.93	0.67
2:AA:270(X):G:C2	2:AA:270(Y):G:H4'	2.29	0.67
2:AA:2769:C:H2'	2:AA:2770:G:H5'	1.76	0.67
2:AA:297:C:H3'	2:AA:298:G:C8	2.28	0.67
2:AA:319:C:C2	2:AA:320:A:C8	2.82	0.67
2:AA:343:C:C2'	2:AA:344:G:C5'	2.71	0.67
2:AA:380:U:H2'	2:AA:381:G:C5'	2.23	0.67
2:AA:405:U:H5''	2:AA:406:G:H5'	1.76	0.67
2:AA:440:G:H2'	2:AA:441:U:C6	2.30	0.67
2:AA:715:G:H5'	2:AA:715:G:C8	2.29	0.67
2:AA:83:G:O2'	2:AA:84:A:O4'	2.13	0.67
2:AA:952:G:H21	2:AA:2267:A:H62	1.42	0.67
1:AB:33:G:H2'	1:AB:34:U:H6	1.56	0.67
3:AC:124:GLY:CA	3:AC:137:LEU:HD11	2.18	0.67
5:AE:42:ALA:H	5:AE:189:MET:CE	2.06	0.67
5:AE:214:VAL:HG21	5:AE:221:LYS:HZ1	1.58	0.67
6:AF:28:SER:HA	6:AF:31:ILE:CG1	2.24	0.67
8:AH:43:THR:OG1	8:AH:50:THR:N	2.27	0.67
9:AI:72:GLN:HA	9:AI:75:LYS:HD2	1.74	0.67
9:AJ:40:ALA:O	9:AJ:43:PRO:HD2	1.94	0.67
10:AK:40:THR:O	10:AK:41:PRO:C	2.27	0.67
11:AL:55:PRO:HG3	11:AL:74:PRO:HD3	1.76	0.67
12:AM:53:ILE:HG23	12:AM:135:ILE:HG13	1.75	0.67
12:AM:78:ILE:HG22	12:AM:79:PHE:HD1	1.59	0.67
13:AN:103:ALA:C	13:AN:105:GLU:H	1.94	0.67
13:AN:106:LEU:HD23	13:AN:106:LEU:H	1.57	0.67
13:AN:112:MET:O	13:AN:115:ILE:N	2.27	0.67
20:AU:30:ASP:O	20:AU:34:GLU:HG3	1.94	0.67
22:AW:20:LEU:HA	22:AW:23:LEU:CG	2.23	0.67
22:AW:3:LEU:O	22:AW:4:HIS:CB	2.42	0.67
34:BA:101:A:C2'	34:BA:102:G:H5'	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1202:G:H1'	49:BQ:42:ILE:CD1	2.23	0.67
34:BA:486:U:H2'	34:BA:486:U:O2	1.94	0.67
34:BA:654:G:N2	34:BA:753:A:H1'	2.09	0.67
34:BA:92:C:C2	34:BA:93:G:C8	2.83	0.67
35:BB:59:U:C2	35:BB:60:C:C2	2.82	0.67
37:BE:114:ARG:HD2	37:BE:141:GLU:CD	2.13	0.67
37:BE:96:ARG:HD2	37:BE:96:ARG:N	2.10	0.67
38:BF:142:MET:HB3	38:BF:170:GLN:NE2	2.09	0.67
38:BF:156:ARG:O	38:BF:193:TYR:HE1	1.77	0.67
38:BF:73:PRO:HG2	38:BF:74:GLY:H	1.58	0.67
39:BG:128:VAL:HG12	39:BG:129:ASN:O	1.94	0.67
39:BG:24:GLU:HG2	39:BG:25:ARG:N	2.07	0.67
39:BG:20:TYR:O	39:BG:26:CYS:SG	2.52	0.67
40:BH:100:VAL:HG11	40:BH:107:ARG:CG	2.22	0.67
40:BH:105:VAL:HG11	40:BH:131:ILE:CG2	2.23	0.67
40:BH:105:VAL:HG12	40:BH:106:PRO:HD3	1.76	0.67
40:BH:45:PHE:CE1	40:BH:47:LYS:HE3	2.29	0.67
40:BH:65:ASN:O	40:BH:65:ASN:ND2	2.27	0.67
42:BJ:17:VAL:HG12	42:BJ:18:TYR:CE1	2.28	0.67
42:BJ:93:PRO:HG2	42:BJ:94:ARG:H	1.58	0.67
43:BK:91:ARG:HG2	52:BT:34:LYS:N	2.06	0.67
47:BO:58:VAL:O	47:BO:65:GLU:HA	1.93	0.67
47:BO:27:LEU:HD22	47:BO:62:SER:HG	1.60	0.67
52:BT:81:ARG:HG2	52:BT:84:LEU:CG	2.24	0.67
53:BU:63:GLN:HA	53:BU:66:LEU:CG	2.24	0.67
55:BW:53:LEU:HD21	55:BW:92:LEU:CD1	2.24	0.67
10:AK:62:LEU:HD23	10:AK:134:HIS:NE2	2.09	0.67
24:A0:37:THR:CG2	24:A0:40:LYS:HD2	2.24	0.67
26:A2:59:GLU:HG2	26:A2:100:GLY:N	2.06	0.67
25:A1:93:LYS:H	26:A2:10:LYS:HZ1	1.42	0.67
28:A4:16:TYR:HE1	28:A4:37:SER:HG	1.42	0.67
28:A4:57:ASP:O	28:A4:61:LYS:HG3	1.94	0.67
2:AA:1014:U:C2'	2:AA:1015:G:C5'	2.72	0.67
2:AA:1092:C:C6	2:AA:1092:C:H3'	2.29	0.67
2:AA:1342:A:C4	2:AA:1345:C:N4	2.62	0.67
2:AA:1359:A:C2'	2:AA:1360:A:H5'	2.24	0.67
2:AA:1407:C:O2'	2:AA:1408:C:C5'	2.42	0.67
2:AA:1417:C:N4	2:AA:1581:G:N2	2.32	0.67
2:AA:1603:A:C2	2:AA:1604:C:C5	2.82	0.67
2:AA:1682:G:H2'	2:AA:1683:C:C6	2.29	0.67
2:AA:176:G:N3	2:AA:177:G:H1'	2.09	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1795:C:H2'	2:AA:1796:U:H5'	0.82	0.67
2:AA:1853:A:H1'	2:AA:2234:G:H5'	1.76	0.67
2:AA:1936:A:C1'	2:AA:1940:U:C4	2.77	0.67
2:AA:2043:C:C2'	2:AA:2044:C:O5'	2.42	0.67
2:AA:2047:U:C2	2:AA:2048:G:N7	2.63	0.67
2:AA:2057:A:C4'	29:A5:8:LYS:NZ	2.57	0.67
2:AA:2132:U:C2'	2:AA:2133:G:H5''	2.23	0.67
2:AA:2324:C:O2	2:AA:2385:C:C5	2.47	0.67
2:AA:2391:G:C2'	2:AA:2392:A:OP2	2.41	0.67
2:AA:827:U:OP2	2:AA:2429:G:OP2	2.11	0.67
2:AA:2474:C:O2'	2:AA:2475:C:H5'	1.95	0.67
2:AA:2572:A:O5'	2:AA:2574:G:H4'	1.94	0.67
2:AA:2712:U:H5''	2:AA:2714:G:O5'	1.94	0.67
2:AA:278:A:O2'	2:AA:279:C:H5'	1.93	0.67
2:AA:687:C:H5''	31:A7:4:THR:HG22	1.77	0.67
2:AA:2712:U:C2'	2:AA:712(A):A:C5'	2.72	0.67
2:AA:738:G:H2'	2:AA:739:G:C1'	2.24	0.67
2:AA:6:A:O2'	2:AA:7:G:H5'	1.94	0.67
2:AA:817:C:C2'	2:AA:818:G:O4'	2.36	0.67
2:AA:850:C:N4	2:AA:928:G:H1	1.90	0.67
1:AB:88:C:H3'	1:AB:88:C:H6	1.60	0.67
3:AC:18:LYS:HE3	3:AC:20:TYR:CD2	2.29	0.67
4:AD:141:HIS:ND1	4:AD:141:HIS:N	2.40	0.67
4:AD:145:LEU:N	4:AD:152:GLN:HB2	2.08	0.67
4:AD:174:ARG:HE	4:AD:180:VAL:HG22	1.57	0.67
2:AA:1568:G:H5''	4:AD:60:GLN:HG2	1.76	0.67
5:AE:208:LYS:N	5:AE:257:GLY:HA3	2.08	0.67
5:AE:221:LYS:NZ	5:AE:233:ARG:CG	2.55	0.67
7:AG:21:VAL:HG12	7:AG:132:VAL:HG23	1.74	0.67
9:AI:62:VAL:HG22	9:AI:101:VAL:HA	1.77	0.67
9:AI:40:ALA:O	9:AI:43:PRO:HD2	1.94	0.67
9:AJ:60:ASP:OD2	9:AJ:101:VAL:HG11	1.94	0.67
9:AJ:13:LEU:HB3	9:AJ:17:GLU:HB3	1.75	0.67
12:AM:60:ARG:O	12:AM:71:TYR:CG	2.47	0.67
14:AO:53:ARG:HD2	14:AO:53:ARG:N	2.03	0.67
15:AP:86:ARG:NH1	15:AP:120:HIS:CD2	2.62	0.67
15:AP:29:ALA:HB3	15:AP:66:ASN:HD21	1.59	0.67
16:AQ:94:GLU:HG3	16:AQ:95:ALA:N	2.08	0.67
20:AU:81:LYS:HD2	20:AU:83:ASP:H	1.59	0.67
21:AV:125:PRO:HB2	21:AV:157:GLY:HA3	1.76	0.67
34:BA:1251:A:C2'	34:BA:1252:A:C8	2.73	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:927:G:C6	34:BA:1391:U:N3	2.62	0.67
34:BA:789:U:C2	34:BA:791:G:OP2	2.47	0.67
34:BA:897:C:H2'	34:BA:898:G:H8	1.60	0.67
35:BC:47:U:C2	35:BC:50:U:OP1	2.47	0.67
37:BE:69:LEU:C	37:BE:69:LEU:HD13	2.15	0.67
38:BF:12:LEU:CD2	38:BF:17:ASP:HA	2.23	0.67
38:BF:12:LEU:HB3	38:BF:18:TRP:CZ3	2.30	0.67
38:BF:58:GLU:O	38:BF:59:ARG:HB2	1.92	0.67
38:BF:84:ILE:HG13	38:BF:101:LEU:CD1	2.25	0.67
38:BF:92:ALA:O	38:BF:95:THR:O	2.13	0.67
39:BG:148:VAL:HG11	39:BG:158:ILE:HD12	1.76	0.67
34:BA:429:U:H2'	39:BG:22:LYS:NZ	2.09	0.67
39:BG:46:LYS:O	39:BG:47:ARG:C	2.32	0.67
39:BG:88:VAL:O	39:BG:92:VAL:HG23	1.94	0.67
40:BH:122:GLU:O	40:BH:123:LEU:CD2	2.38	0.67
40:BH:94:ALA:CB	40:BH:118:ILE:HA	2.23	0.67
42:BJ:94:ARG:NH1	42:BJ:94:ARG:O	2.26	0.67
43:BK:10:LEU:CD2	43:BK:135:CYS:SG	2.83	0.67
43:BK:72:PRO:O	43:BK:73:ASP:HB3	1.93	0.67
44:BL:110:GLU:OE2	44:BL:113:LYS:NZ	2.26	0.67
48:BP:55:ARG:NH2	48:BP:56:LEU:HD21	2.09	0.67
50:BR:38:ARG:NH1	50:BR:38:ARG:CB	2.46	0.67
52:BT:31:LEU:HG	52:BT:32:TYR:CD2	2.28	0.67
52:BT:53:LEU:HD12	52:BT:54:GLY:N	2.08	0.67
34:BA:736:C:OP1	53:BU:72:ARG:CZ	2.41	0.67
54:BV:22:LEU:HD23	54:BV:25:LYS:CD	2.23	0.67
55:BW:73:HIS:H	55:BW:76:ALA:CB	2.07	0.67
55:BW:56:MET:SD	55:BW:88:VAL:HG11	2.35	0.67
35:BB:42:G:C5'	35:BB:43:G:P	2.83	0.67
37:BE:130:ARG:HD3	37:BE:131:PRO:CD	2.23	0.67
6:AF:61:PHE:O	6:AF:65:ARG:CZ	2.42	0.67
2:AA:1116:C:C6	2:AA:1116:C:OP2	2.47	0.67
24:A0:59:ASP:O	24:A0:63:ARG:HG3	1.93	0.67
25:A1:113:SER:O	25:A1:116:ALA:N	2.27	0.67
30:A6:48:VAL:O	30:A6:50:PHE:CD1	2.48	0.67
2:AA:1122:G:C2	2:AA:1123:C:C5	2.82	0.67
2:AA:1305:C:O2'	2:AA:1306:C:O5'	2.11	0.67
2:AA:1686:C:N3	2:AA:1702:G:O6	2.27	0.67
2:AA:1826:G:O5'	2:AA:1826:G:H8	1.77	0.67
2:AA:1917:U:C6	2:AA:1918:A:C8	2.82	0.67
2:AA:211:A:O2'	2:AA:212:G:H5'	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:184:C:O3'	2:AA:217:G:N2	2.28	0.67
2:AA:2321:G:N3	2:AA:2321:G:H2'	2.09	0.67
2:AA:2347:C:O2'	30:A6:40:TYR:CE2	2.48	0.67
2:AA:2461:C:O2'	2:AA:2462:U:H5'	1.93	0.67
2:AA:529:A:O2'	2:AA:530:G:O5'	2.12	0.67
2:AA:575:A:C2'	2:AA:576:U:H5'	2.24	0.67
2:AA:647:G:H2'	2:AA:648:G:H8	1.59	0.67
2:AA:64:A:O2'	2:AA:65:C:H5'	1.95	0.67
2:AA:650:C:N3	2:AA:651:G:C2	2.63	0.67
2:AA:721:C:H2'	2:AA:722:A:H8	1.59	0.67
2:AA:799:G:C6	2:AA:800:A:N1	2.62	0.67
1:AB:103:U:C3'	1:AB:103:U:C6	2.76	0.67
4:AD:210:LYS:HA	4:AD:213:LYS:CE	2.24	0.67
4:AD:95:TYR:CB	4:AD:99:GLU:HG3	2.24	0.67
6:AF:55:ARG:CA	6:AF:79:ARG:HE	2.06	0.67
6:AF:55:ARG:CA	6:AF:79:ARG:NH2	2.58	0.67
9:AI:22:VAL:HG22	9:AI:41:ALA:HB3	1.76	0.67
11:AL:93:LYS:H	11:AL:96:ILE:HG13	1.59	0.67
13:AN:52:VAL:O	13:AN:53:LYS:HB2	1.93	0.67
15:AP:26:LYS:NZ	15:AP:90:PHE:HE1	1.86	0.67
19:AT:34:LYS:HE3	19:AT:52:VAL:C	2.14	0.67
20:AU:42:VAL:CG1	20:AU:43:ASN:H	1.87	0.67
21:AV:6:LYS:H	21:AV:7:PRO:HD3	1.59	0.67
22:AW:9:ARG:NH2	22:AW:59:ILE:HG13	2.10	0.67
23:AX:12:PRO:HG3	23:AX:20:LYS:NZ	2.09	0.67
23:AX:41:PRO:O	23:AX:44:ARG:HB3	1.93	0.67
34:BA:1097:C:O2'	34:BA:1098:C:H5'	1.95	0.67
34:BA:1126:U:C2	34:BA:1127:G:C8	2.82	0.67
34:BA:1133:G:H2'	34:BA:1134:G:O4'	1.93	0.67
34:BA:124:G:OP1	34:BA:310:G:N2	2.28	0.67
34:BA:1346:A:C8	34:BA:1348:U:C4	2.82	0.67
34:BA:21:G:N2	34:BA:915:A:H62	1.91	0.67
34:BA:280:C:O2	52:BT:38:ARG:HG3	1.94	0.67
34:BA:283:C:C2	34:BA:284:G:C8	2.82	0.67
34:BA:286:G:C5	34:BA:287:U:C5	2.82	0.67
34:BA:721:G:H8	34:BA:721:G:OP1	1.76	0.67
34:BA:792:A:O2'	34:BA:794:A:N7	2.26	0.67
34:BA:98:U:O2'	34:BA:99:C:H5'	1.94	0.67
35:BB:67:A:C2	35:BB:68:U:C4	2.83	0.67
39:BG:64:LEU:HA	39:BG:67:ILE:HD12	1.74	0.67
42:BJ:37:ASN:ND2	42:BJ:38:LEU:N	2.39	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BK:103:VAL:HB	43:BK:108:GLY:C	2.14	0.67
45:BM:8:LEU:HD23	45:BM:95:GLU:C	2.14	0.67
48:BP:10:PRO:HB2	48:BP:18:ALA:HA	1.76	0.67
51:BS:9:PHE:CE1	51:BS:18:ARG:NE	2.62	0.67
54:BV:43:GLU:CD	54:BV:43:GLU:H	1.96	0.67
40:BH:137:GLU:OE1	40:BH:140:ARG:HB2	1.94	0.67
24:A0:97:VAL:CG1	24:A0:114:VAL:HG22	2.16	0.67
24:A0:96:ARG:CD	24:A0:98:LEU:HD11	2.24	0.67
25:A1:64:ARG:NH1	25:A1:101:ARG:HH21	1.91	0.67
2:AA:534:U:O2'	25:A1:49:ASP:OD2	2.12	0.67
25:A1:7:GLY:O	25:A1:8:ILE:C	2.32	0.67
27:A3:25:LYS:NZ	27:A3:57:HIS:CE1	2.62	0.67
28:A4:68:ARG:HD3	28:A4:72:LYS:CE	2.23	0.67
31:A7:43:THR:OG1	31:A7:44:VAL:N	2.27	0.67
33:A9:14:CYS:SG	33:A9:32:HIS:CG	2.87	0.67
2:AA:1047:G:H2'	2:AA:1110:G:N1	2.09	0.67
2:AA:1166:C:N3	2:AA:1183:G:C2	2.62	0.67
2:AA:972:G:N7	2:AA:1188:U:C4	2.61	0.67
2:AA:1458:C:H4'	2:AA:1459:G:N9	2.09	0.67
2:AA:1515:C:C6	2:AA:1515:C:OP1	2.46	0.67
2:AA:151:C:N4	2:AA:176:G:O6	2.27	0.67
2:AA:1529:A:H3'	2:AA:1530:G:O4'	1.94	0.67
2:AA:1567:A:C5	4:AD:84:PRO:HB3	2.30	0.67
2:AA:1614:A:N6	18:AS:88:ARG:H	1.92	0.67
2:AA:1665:A:C2	2:AA:1666:G:C8	2.82	0.67
2:AA:1700:A:H2'	2:AA:1701:A:C5'	2.23	0.67
2:AA:49:A:C6	2:AA:177:G:C2	2.82	0.67
2:AA:1843:C:O2'	2:AA:1844:C:H5'	1.95	0.67
2:AA:530:G:H1	2:AA:2021:C:C3'	2.02	0.67
2:AA:2105:C:H2'	2:AA:2106:G:H8	1.59	0.67
2:AA:2330:G:N1	2:AA:2385:C:N4	2.42	0.67
2:AA:2579:C:C2'	2:AA:2580:U:H5'	2.24	0.67
2:AA:353:G:C2'	2:AA:354:G:O5'	2.42	0.67
2:AA:735:A:H8	2:AA:735:A:O5'	1.76	0.67
3:AC:211:SER:HA	3:AC:223:ARG:NH2	2.10	0.67
3:AC:211:SER:HB2	3:AC:213:TYR:CZ	2.29	0.67
2:AA:1675:C:C5	5:AE:225:LYS:HG3	2.29	0.67
5:AE:205:THR:HG22	5:AE:261:ARG:NE	2.09	0.67
6:AF:147:LEU:CD1	6:AF:156:LEU:HD11	2.24	0.67
9:AJ:80:ILE:HD13	9:AJ:114:ILE:HG23	1.77	0.67
10:AK:25:TYR:H	10:AK:25:TYR:HD2	1.42	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:7:LYS:CG	10:AK:12:LYS:HZ2	2.05	0.67
13:AN:77:ILE:HD11	13:AN:79:PHE:HE2	1.60	0.67
15:AP:65:ARG:NH2	15:AP:85:ILE:C	2.48	0.67
16:AQ:103:ASP:C	16:AQ:103:ASP:OD2	2.32	0.67
16:AQ:94:GLU:HG3	16:AQ:95:ALA:H	1.60	0.67
18:AS:17:VAL:HG11	18:AS:76:VAL:HG21	1.76	0.67
19:AT:45:TYR:OH	19:AT:73:ASP:O	2.11	0.67
11:AL:93:LYS:HZ2	21:AV:108:VAL:HG12	1.60	0.67
21:AV:86:VAL:CG1	21:AV:91:PRO:HG3	2.24	0.67
34:BA:1015:A:H2'	34:BA:1016:A:H8	1.59	0.67
34:BA:108:G:O6	55:BW:15:ARG:HD2	1.95	0.67
34:BA:1224:G:C2'	34:BA:1225:A:OP1	2.42	0.67
34:BA:953:G:H1	34:BA:1228:C:H42	1.40	0.67
34:BA:1347:G:H1'	34:BA:1348:U:H5	1.58	0.67
34:BA:190(F):G:OP1	34:BA:190(F):G:C8	2.47	0.67
34:BA:199:G:O2'	34:BA:200:G:H5'	1.93	0.67
34:BA:132:C:C2	34:BA:231:G:N2	2.62	0.67
34:BA:780:A:H3'	34:BA:780:A:H8	1.60	0.67
35:BB:15:G:C2'	35:BB:16:U:OP2	2.36	0.67
35:BB:69:U:H2'	35:BB:70:C:H6	1.60	0.67
37:BE:163:PHE:CZ	37:BE:201:ILE:HG12	2.29	0.67
39:BG:134:ASP:O	39:BG:136:PRO:HD3	1.95	0.67
41:BI:30:LEU:H	41:BI:30:LEU:HD12	1.59	0.67
43:BK:114:THR:C	43:BK:116:LYS:H	1.97	0.67
45:BM:58:ASP:O	45:BM:60:ARG:N	2.26	0.67
46:BN:18:ARG:HG2	46:BN:18:ARG:HH11	1.60	0.67
47:BO:25:PRO:C	47:BO:27:LEU:N	2.46	0.67
50:BR:18:PHE:O	50:BR:20:GLY:N	2.28	0.67
50:BR:64:ARG:HG2	50:BR:65:ARG:H	1.59	0.67
50:BR:76:GLU:HA	50:BR:79:ARG:HH12	1.58	0.67
52:BT:18:THR:HG23	52:BT:69:LYS:CE	2.25	0.67
53:BU:47:THR:O	53:BU:82:THR:HA	1.94	0.67
53:BU:66:LEU:HD12	53:BU:67:ALA:H	1.59	0.67
54:BV:5:LEU:CD1	54:BV:9:VAL:HG22	2.24	0.67
24:A0:97:VAL:HA	24:A0:114:VAL:HG13	1.74	0.67
24:A0:54:LEU:N	24:A0:54:LEU:CD1	2.58	0.67
25:A1:55:ARG:CG	25:A1:58:ARG:HH21	2.07	0.67
27:A3:14:ARG:HD2	27:A3:14:ARG:O	1.94	0.67
27:A3:66:LYS:N	27:A3:66:LYS:CD	2.58	0.67
27:A3:68:VAL:HB	27:A3:72:LYS:HG3	1.76	0.67
28:A4:4:ASP:OD1	28:A4:11:PRO:HG3	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:A4:54:GLY:O	28:A4:55:ARG:CG	2.42	0.67
30:A6:42:PRO:CB	30:A6:44:ALA:HB3	2.25	0.67
31:A7:13:ALA:O	31:A7:16:HIS:O	2.12	0.67
32:A8:26:LYS:CD	32:A8:45:GLY:H	2.08	0.67
32:A8:26:LYS:HG3	32:A8:45:GLY:H	1.59	0.67
2:AA:2362:G:OP1	32:A8:29:LYS:HE2	1.95	0.67
2:AA:2359:C:C4'	32:A8:52:LYS:HZ1	2.04	0.67
2:AA:1670:C:H2'	2:AA:1671:U:O4'	1.94	0.67
2:AA:182:A:C2	2:AA:183:C:C2	2.82	0.67
2:AA:1967:C:N4	2:AA:1968:G:C2	2.63	0.67
2:AA:2004:G:H2'	2:AA:2005:A:O4'	1.94	0.67
2:AA:2224:G:O2'	2:AA:2225:A:H5'	1.95	0.67
2:AA:2239:G:H2'	2:AA:2240:C:C6	2.29	0.67
2:AA:2317:C:H2'	2:AA:2318:G:H8	1.59	0.67
2:AA:2352:A:N7	2:AA:2366:A:C6	2.63	0.67
2:AA:2429:G:C5'	2:AA:2430:A:OP2	2.41	0.67
2:AA:2486:G:N1	2:AA:2487:G:N7	2.43	0.67
2:AA:2513:G:H1	2:AA:2571:C:H42	1.42	0.67
2:AA:342:G:H2'	2:AA:343:C:H6	1.56	0.67
2:AA:531:C:N4	25:A1:38:THR:CB	2.57	0.67
2:AA:734:A:C2	2:AA:735:A:H1'	2.28	0.67
2:AA:983:A:C8	2:AA:984:A:C1'	2.63	0.67
1:AB:91:C:O2'	1:AB:92:G:H5'	1.94	0.67
2:AA:2123:G:O2'	3:AC:172:HIS:CE1	2.47	0.67
2:AA:1860:G:O2'	3:AC:205:LYS:HD3	1.93	0.67
5:AE:202:ALA:HA	5:AE:262:THR:CB	2.18	0.67
5:AE:200:ASP:CA	5:AE:266:LYS:HD2	2.24	0.67
2:AA:2680:C:C5'	5:AE:302:GLY:HA2	2.25	0.67
5:AE:45:LYS:HD2	5:AE:304:ASP:O	1.94	0.67
6:AF:213:ALA:CB	6:AF:218:VAL:HG13	2.24	0.67
6:AF:224:ALA:N	6:AF:225:PRO:CD	2.53	0.67
8:AH:25:VAL:CG2	8:AH:74:MET:HE1	2.25	0.67
9:AI:18:LEU:HD11	9:AI:44:VAL:HG12	1.75	0.67
9:AJ:74:ILE:O	9:AJ:78:ARG:HG3	1.94	0.67
10:AK:10:LYS:CG	10:AK:11:GLY:H	2.08	0.67
11:AL:73:PRO:HG2	11:AL:78:LEU:HD11	1.76	0.67
12:AM:4:ALA:C	12:AM:109:TYR:OH	2.33	0.67
15:AP:48:ASN:HD22	15:AP:122:PHE:HB2	1.58	0.67
20:AU:101:LEU:HD13	20:AU:113:GLU:OE1	1.94	0.67
21:AV:1:MET:C	21:AV:54:ILE:HG13	2.14	0.67
34:BA:1020:U:H2'	34:BA:1021:G:C8	2.29	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1032:G:H2'	34:BA:1033:G:O4'	1.95	0.67
34:BA:1045:C:N3	34:BA:1046:A:C8	2.63	0.67
34:BA:1087:G:H2'	34:BA:1088:G:C8	2.19	0.67
34:BA:1098:C:H2'	34:BA:1099:G:H5'	1.76	0.67
34:BA:1111:A:H2'	34:BA:1112:C:C6	2.29	0.67
34:BA:1128:C:H2'	34:BA:1130:A:N7	2.10	0.67
34:BA:1363:A:H8	34:BA:1363:A:OP1	1.77	0.67
34:BA:186:C:O2'	34:BA:187:C:H5'	1.94	0.67
34:BA:235:C:H2'	34:BA:236:G:C8	2.27	0.67
34:BA:39:G:C6	34:BA:40:C:C5	2.81	0.67
34:BA:479:C:C6	34:BA:479:C:O5'	2.39	0.67
34:BA:580:U:H2'	34:BA:581:G:H8	1.58	0.67
34:BA:581:G:H2'	34:BA:582:U:OP2	1.94	0.67
34:BA:620:C:C6	34:BA:621:A:C8	2.83	0.67
34:BA:688:G:O2'	34:BA:689:C:H5'	1.95	0.67
37:BE:20:GLU:HG3	37:BE:189:ASP:CB	2.24	0.67
38:BF:52:LEU:CA	38:BF:70:VAL:HG22	2.20	0.67
34:BA:407:G:O2'	39:BG:116:GLN:HG3	1.94	0.67
39:BG:162:LEU:CD1	39:BG:181:MET:HG2	2.23	0.67
39:BG:145:GLU:HA	39:BG:183:GLY:O	1.94	0.67
43:BK:109:ILE:HG12	43:BK:137:VAL:N	2.09	0.67
43:BK:14:ARG:O	43:BK:17:THR:HB	1.94	0.67
43:BK:36:LEU:HD23	43:BK:36:LEU:H	1.60	0.67
48:BP:29:ARG:NE	48:BP:64:TRP:NE1	2.43	0.67
38:BF:30:ARG:HB2	49:BQ:37:PHE:O	1.94	0.67
34:BA:668:G:H1'	50:BR:46:HIS:CD2	2.28	0.67
51:BS:26:ARG:HH11	51:BS:26:ARG:HG2	1.59	0.67
51:BS:58:TYR:O	51:BS:59:TRP:C	2.32	0.67
51:BS:7:ALA:H	51:BS:18:ARG:HB2	1.59	0.67
34:BA:761:G:O2'	52:BT:104:LYS:HA	1.93	0.67
35:BB:38:A:H2'	35:BB:39:U:H5'	1.76	0.67
35:BB:22:G:HO2'	35:BB:23:A:H8	1.41	0.67
24:A0:33:ARG:HA	24:A0:114:VAL:O	1.93	0.67
25:A1:59:ARG:HH11	25:A1:59:ARG:CB	2.06	0.67
26:A2:4:ILE:O	26:A2:41:GLY:HA3	1.94	0.67
2:AA:1071:G:C8	2:AA:1089:G:C6	2.83	0.67
2:AA:1083:U:H3'	9:AI:37:VAL:N	2.09	0.67
2:AA:1168:G:H2'	2:AA:1169:G:O4'	1.95	0.67
2:AA:1171:G:H3'	2:AA:1173:G:C5'	2.22	0.67
2:AA:1312:U:O4	19:AT:58:MET:HB2	1.93	0.67
2:AA:154:G:C5	2:AA:155:C:C2	2.82	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1582:C:H2'	2:AA:1583:A:O2'	1.94	0.67
2:AA:1627:G:H2'	2:AA:1628:G:C8	2.30	0.67
2:AA:1815:A:O2'	2:AA:1816:G:O5'	2.13	0.67
2:AA:1795:C:H42	2:AA:1824:G:H1	0.78	0.67
2:AA:1861:G:H5'	3:AC:205:LYS:CE	2.24	0.67
2:AA:2209:C:HO2'	2:AA:2210:G:H8	0.79	0.67
2:AA:2308:G:OP2	2:AA:2310:A:N6	2.27	0.67
2:AA:2380:C:H2'	2:AA:2381:C:C5'	2.24	0.67
2:AA:2389:G:P	2:AA:2390:U:H5'	2.34	0.67
2:AA:2423:U:O4'	2:AA:2425:A:C8	2.48	0.67
2:AA:2553:G:C2	2:AA:2583:G:H1'	2.29	0.67
2:AA:270(A):A:H5'	2:AA:270(B):A:P	2.35	0.67
2:AA:2635:C:C2	2:AA:2783:G:N2	2.62	0.67
2:AA:181:A:C2	2:AA:434:U:O2'	2.48	0.67
2:AA:604:G:N3	2:AA:657:U:H4'	2.09	0.67
2:AA:627:A:C2'	2:AA:628:G:O4'	2.43	0.67
2:AA:650:C:N4	2:AA:651:G:N1	2.42	0.67
2:AA:848:G:H2'	2:AA:849:A:C8	2.29	0.67
2:AA:912:C:C2'	2:AA:913:U:H5'	2.24	0.67
2:AA:941:A:H2	2:AA:942:G:H1'	1.59	0.67
2:AA:961:C:O2'	2:AA:962:G:P	2.53	0.67
2:AA:979:G:C8	2:AA:980:A:H5''	2.29	0.67
1:AB:77:U:H2'	1:AB:78:A:C8	2.29	0.67
1:AB:80:U:C2	1:AB:81:G:N7	2.63	0.67
3:AC:5:LYS:CE	3:AC:8:ARG:HB3	2.24	0.67
4:AD:76:ARG:HG2	4:AD:113:MET:HB3	1.74	0.67
5:AE:240:PRO:HB2	5:AE:243:PRO:CD	2.24	0.67
5:AE:271:ILE:CG2	5:AE:272:GLY:N	2.57	0.67
7:AG:87:ALA:C	7:AG:89:PRO:HD2	2.15	0.67
8:AH:32:LEU:HD11	8:AH:34:ARG:HH21	1.59	0.67
9:AI:26:GLU:CD	9:AJ:43:PRO:HG3	2.15	0.67
12:AM:12:VAL:O	12:AM:38:VAL:HG13	1.94	0.67
13:AN:20:LEU:HD23	13:AN:21:VAL:O	1.94	0.67
13:AN:68:GLY:HA3	13:AN:78:ARG:CZ	2.18	0.67
14:AO:94:ARG:NE	14:AO:118:LEU:HB2	2.09	0.67
16:AQ:27:LEU:O	16:AQ:28:LYS:C	2.31	0.67
16:AQ:60:SER:O	16:AQ:88:ALA:CA	2.41	0.67
19:AT:47:VAL:HB	19:AT:50:GLU:OE2	1.94	0.67
35:BB:34:G:C2	36:B1:66:G:C6	2.83	0.67
34:BA:1059:C:O2	34:BA:1059:C:H2'	1.93	0.67
34:BA:1158:C:C2	34:BA:1160:G:C8	2.83	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1508:G:O2'	34:BA:1509:C:H5'	1.95	0.67
34:BA:162:A:C2'	34:BA:163:C:H5'	2.25	0.67
34:BA:189:G:O6	34:BA:190(J):U:O4	2.12	0.67
34:BA:342:C:O2'	34:BA:343:U:H5'	1.95	0.67
34:BA:605:U:C2'	34:BA:606:G:H8	2.05	0.67
35:BC:38:A:H2'	35:BC:39:U:C5'	2.25	0.67
37:BE:33:TYR:HB3	37:BE:42:ILE:O	1.95	0.67
37:BE:93:VAL:HG12	37:BE:95:GLN:O	1.94	0.67
38:BF:30:ARG:NH1	38:BF:30:ARG:HG2	2.06	0.67
40:BH:116:THR:O	40:BH:117:ASP:OD1	2.13	0.67
41:BI:14:LEU:HD13	41:BI:18:GLN:HB3	1.77	0.67
34:BA:673:G:H5''	41:BI:87:ARG:CZ	2.23	0.67
41:BI:96:PRO:HA	53:BU:32:ARG:CG	2.25	0.67
34:BA:1117:G:OP1	44:BL:104:ARG:NH1	2.26	0.67
46:BN:21:ILE:HG23	46:BN:30:VAL:HG22	1.77	0.67
47:BO:70:ILE:HG21	47:BO:77:LEU:CD1	2.24	0.67
34:BA:585:G:C4'	47:BO:8:ASN:ND2	2.57	0.67
34:BA:953:G:C4'	48:BP:124:PRO:O	2.37	0.67
48:BP:29:ARG:HD3	48:BP:64:TRP:CE2	2.29	0.67
48:BP:81:LEU:HA	48:BP:84:ILE:HG12	1.76	0.67
50:BR:54:ARG:HD3	50:BR:55:GLY:N	2.10	0.67
54:BV:40:ILE:CG1	54:BV:71:LEU:HD23	2.19	0.67
25:A1:77:SER:OG	25:A1:78:THR:N	2.27	0.67
28:A4:28:ARG:HB3	28:A4:29:PRO:HD2	1.77	0.67
32:A8:22:VAL:HG12	32:A8:23:MET:N	2.08	0.67
2:AA:1006:C:H1'	12:AM:86:MET:CE	2.24	0.67
2:AA:1343:G:N3	2:AA:1384:A:H2	1.91	0.67
2:AA:137(A):G:H3'	2:AA:138:G:C2	2.29	0.67
2:AA:139:G:C8	2:AA:142:G:O4'	2.48	0.67
2:AA:1458:C:H4'	2:AA:1459:G:C5	2.28	0.67
2:AA:1463:C:C2	2:AA:1464:C:C5	2.83	0.67
2:AA:1395:A:P	2:AA:1603:A:H5''	2.34	0.67
2:AA:1892:C:H2'	2:AA:1893:C:C6	2.29	0.67
2:AA:2053:G:H2'	2:AA:2054:A:C8	2.27	0.67
2:AA:2059:A:N1	2:AA:2503:A:N7	2.42	0.67
2:AA:2265:U:N3	2:AA:2266:A:N7	2.43	0.67
2:AA:2325:G:C4	2:AA:2326:C:C5	2.82	0.67
2:AA:2332:U:H4'	2:AA:2336:A:N6	2.10	0.67
2:AA:2498:C:H2'	2:AA:2499:C:H5''	1.77	0.67
2:AA:2549:G:N2	2:AA:2560:C:C6	2.63	0.67
2:AA:2569:G:C2	2:AA:2570:G:N7	2.63	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2508:G:H1	2:AA:2580:U:H3	1.41	0.67
2:AA:2622:C:H5'	5:AE:255:GLN:OE1	1.94	0.67
2:AA:2729:G:N2	5:AE:300:VAL:HG11	2.09	0.67
2:AA:30:G:C2	2:AA:511:U:H1'	2.30	0.67
2:AA:468:G:N7	2:AA:469:G:C4	2.62	0.67
2:AA:49:A:C2	2:AA:118:A:N7	2.62	0.67
2:AA:528:A:N6	2:AA:2042:A:C8	2.63	0.67
2:AA:612:G:C4'	2:AA:616:A:N6	2.43	0.67
2:AA:746:A:H5''	2:AA:748:G:H1'	1.77	0.67
2:AA:805:G:O2'	2:AA:831:G:H4'	1.95	0.67
2:AA:877:U:O5'	2:AA:877:U:H6	1.77	0.67
2:AA:974(A):C:H1'	2:AA:989:G:N1	2.10	0.67
1:AB:17:C:OP1	7:AG:147:ALA:CA	2.43	0.67
1:AB:8:U:C2'	1:AB:9:G:C8	2.61	0.67
3:AC:133:PRO:CG	3:AC:134:ARG:NH1	2.57	0.67
3:AC:131:LEU:HB2	3:AC:137:LEU:HD23	1.76	0.67
3:AC:186:ALA:O	3:AC:190:ARG:NH1	2.27	0.67
4:AD:115:ILE:O	4:AD:116:MET:HB2	1.92	0.67
4:AD:216:ALA:HB1	4:AD:223:ASN:CB	2.18	0.67
7:AG:145:ASP:CB	16:AQ:15:GLU:O	2.43	0.67
2:AA:2311:A:OP2	7:AG:55:LYS:CE	2.43	0.67
2:AA:1058:G:H4'	9:AI:2:THR:HA	1.73	0.67
11:AL:15:ALA:HA	11:AL:46:THR:CB	2.25	0.67
14:AO:113:GLN:HE21	14:AO:115:ARG:NH1	1.93	0.67
15:AP:48:ASN:ND2	15:AP:122:PHE:HB2	2.10	0.67
15:AP:66:ASN:O	15:AP:70:ARG:CG	2.41	0.67
15:AP:85:ILE:HD12	15:AP:85:ILE:O	1.93	0.67
16:AQ:44:ARG:HB3	16:AQ:62:HIS:HD2	1.60	0.67
18:AS:6:ILE:HG13	18:AS:104:THR:CG2	2.24	0.67
18:AS:32:ALA:HA	18:AS:35:ILE:CG1	2.24	0.67
18:AS:32:ALA:O	18:AS:35:ILE:HB	1.95	0.67
20:AU:27:LEU:CB	20:AU:98:VAL:O	2.42	0.67
23:AX:12:PRO:HB2	23:AX:20:LYS:CE	2.25	0.67
36:B1:10:U:H2'	36:B1:11:U:H6	1.60	0.67
34:BA:1483:A:C3'	34:BA:1484:C:H5'	2.25	0.67
34:BA:236:G:H5'	52:BT:42:TYR:OH	1.95	0.67
34:BA:592:G:O2'	34:BA:593:G:H5'	1.95	0.67
34:BA:986:A:H1'	54:BV:55:LYS:CA	2.21	0.67
35:BB:34:G:H1	36:B1:65:U:C2'	2.03	0.67
39:BG:160:GLN:O	39:BG:163:GLU:HB3	1.95	0.67
40:BH:136:MET:O	40:BH:139:LEU:HB2	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BH:56:GLN:O	40:BH:59:GLY:N	2.28	0.67
40:BH:99:GLY:N	40:BH:117:ASP:HA	2.10	0.67
41:BI:42:GLU:C	41:BI:44:GLY:H	1.97	0.67
43:BK:93:VAL:HB	43:BK:133:LEU:HD12	1.75	0.67
45:BM:34:VAL:HG12	45:BM:36:GLY:N	2.04	0.67
45:BM:49:VAL:CG1	45:BM:50:ILE:H	2.06	0.67
46:BN:85:ARG:NE	46:BN:111:ASP:OD2	2.27	0.67
48:BP:11:ARG:O	48:BP:13:LYS:N	2.27	0.67
48:BP:96:LEU:C	48:BP:110:ARG:HG2	2.15	0.67
52:BT:10:VAL:HG11	52:BT:53:LEU:HA	1.76	0.67
54:BV:30:LEU:HA	54:BV:48:THR:O	1.94	0.67
55:BW:86:ARG:HG2	55:BW:87:LYS:H	1.60	0.67
23:AX:3:ARG:HD3	23:AX:60:GLU:CG	2.24	0.67
2:AA:581:C:O3'	25:A1:32:TYR:CD1	2.46	0.67
2:AA:566:U:H5''	26:A2:81:ARG:NH2	2.09	0.67
29:A5:40:LYS:NZ	29:A5:46:CYS:N	2.42	0.67
31:A7:28:ARG:O	31:A7:31:LEU:HB2	1.94	0.67
31:A7:4:THR:H	31:A7:6:GLN:HE22	1.43	0.67
2:AA:1086:A:C3'	2:AA:1087:G:H5'	2.24	0.67
2:AA:1178:C:C2	2:AA:1179:C:C5	2.83	0.67
2:AA:1303:G:C8	2:AA:1304:C:H5	2.12	0.67
2:AA:1334:G:C4	2:AA:1335:U:C5	2.83	0.67
2:AA:1364:G:N7	28:A4:2:GLN:OE1	2.28	0.67
2:AA:1340:U:H4'	2:AA:1394:U:O2'	1.95	0.67
2:AA:1441:G:C2'	2:AA:1442:G:H5'	2.25	0.67
2:AA:1645:G:H5''	2:AA:1646:C:C5'	2.25	0.67
2:AA:1652:A:N7	2:AA:1653:G:N2	2.43	0.67
2:AA:1689:A:C6	2:AA:1700:A:C2	2.83	0.67
2:AA:153:C:N3	2:AA:174:C:N4	2.43	0.67
2:AA:1663:C:N4	2:AA:1992:G:H8	1.91	0.67
2:AA:2177:C:H2'	2:AA:2178:C:C6	2.30	0.67
2:AA:259:G:O2'	2:AA:260:G:H5'	1.95	0.67
2:AA:2700:C:H2'	2:AA:2701:C:H5''	1.75	0.67
2:AA:2703:C:C5	2:AA:2704:C:C4	2.83	0.67
2:AA:273(B):C:H2'	2:AA:273(C):C:C6	2.30	0.67
2:AA:280:C:C2'	2:AA:281:G:H3'	2.25	0.67
2:AA:2893:G:O2'	2:AA:2894:G:C1'	2.42	0.67
2:AA:2896:C:H6	2:AA:2896:C:O5'	1.77	0.67
2:AA:311:A:H3'	2:AA:312:G:C8	2.29	0.67
2:AA:38:A:H2'	2:AA:39:C:C5	2.29	0.67
2:AA:669:G:C5'	2:AA:670:A:OP2	2.38	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:59:ARG:HD2	3:AC:164:ARG:HD3	1.75	0.67
5:AE:189:MET:O	5:AE:190:ASN:HB3	1.92	0.67
5:AE:308:VAL:HG12	5:AE:310:PHE:HE1	1.59	0.67
6:AF:153:VAL:O	6:AF:154:VAL:C	2.33	0.67
12:AM:74:ARG:CD	12:AM:74:ARG:N	2.58	0.67
2:AA:557:U:C5'	12:AM:92:GLN:HE21	2.08	0.67
13:AN:5:GLU:HB3	13:AN:20:LEU:CG	2.25	0.67
15:AP:56:ILE:CG1	15:AP:115:SER:HB3	2.24	0.67
15:AP:20:ILE:HD12	15:AP:21:SER:HG	1.58	0.67
15:AP:28:ILE:HG23	15:AP:62:GLU:CG	2.25	0.67
19:AT:3:ASP:O	19:AT:4:VAL:HG13	1.94	0.67
21:AV:51:LEU:HD11	21:AV:64:ALA:HA	1.76	0.67
34:BA:1241:G:C6	34:BA:1242:C:N4	2.63	0.67
34:BA:1463:C:C2'	34:BA:1464:G:H5'	2.25	0.67
34:BA:384:G:O2'	34:BA:385:C:H5'	1.93	0.67
34:BA:392:G:P	51:BS:8:ARG:HH22	2.18	0.67
34:BA:552:U:H4'	47:BO:86:ARG:O	1.94	0.67
34:BA:606:G:N2	34:BA:631:G:N3	2.43	0.67
35:BC:2:C:O2'	35:BC:3:G:H5'	1.94	0.67
37:BE:170:GLU:O	37:BE:171:ALA:C	2.33	0.67
38:BF:42:LEU:HD23	38:BF:45:LYS:HD2	1.76	0.67
38:BF:21:ARG:HH21	38:BF:54:ARG:HH22	1.42	0.67
39:BG:148:VAL:O	39:BG:153:ARG:HD3	1.95	0.67
40:BH:86:ALA:O	40:BH:125:SER:CB	2.43	0.67
41:BI:4:TYR:CA	41:BI:93:SER:OG	2.42	0.67
42:BJ:70:LYS:O	42:BJ:138:LYS:HE3	1.94	0.67
44:BL:96:LEU:HD12	44:BL:101:PHE:CD1	2.30	0.67
51:BS:43:LYS:O	51:BS:45:THR:N	2.23	0.67
51:BS:67:THR:HB	51:BS:70:ALA:CB	2.25	0.67
53:BU:36:ASN:HB3	53:BU:40:LEU:CD2	2.22	0.67
53:BU:67:ALA:O	53:BU:70:ILE:N	2.28	0.67
54:BV:33:THR:HG22	54:BV:34:TRP:N	2.10	0.67
35:BB:72:C:C4	35:BB:73:A:N7	2.63	0.67
24:A0:20:LEU:HD12	24:A0:21:TYR:CD2	2.29	0.67
2:AA:533:G:OP1	25:A1:24:PHE:HB2	1.95	0.67
26:A2:79:GLN:NE2	26:A2:80:TYR:OH	2.27	0.67
27:A3:37:LEU:O	27:A3:40:GLN:CG	2.43	0.67
32:A8:23:MET:HG3	32:A8:24:ALA:N	2.08	0.67
32:A8:62:LEU:CB	32:A8:63:PRO:CD	2.73	0.67
2:AA:1263:U:O2'	29:A5:16:ARG:NH2	2.27	0.67
2:AA:1451:C:C5	2:AA:1453:A:O3'	2.48	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1788:C:H6	2:AA:1788:C:O5'	1.78	0.67
2:AA:1891:G:H3'	2:AA:1892:C:H6	1.58	0.67
2:AA:1907:G:N1	2:AA:1908:C:N4	2.42	0.67
2:AA:223:A:N1	2:AA:407:G:O2'	2.22	0.67
2:AA:2243:U:H2'	2:AA:2244:U:O4'	1.95	0.67
2:AA:2432:A:N1	2:AA:2433:A:N1	2.43	0.67
2:AA:292:C:H3'	2:AA:293:U:N3	2.10	0.67
2:AA:1444:G:O2'	2:AA:444(A):A:OP1	2.08	0.67
2:AA:459:U:H2'	2:AA:460:A:H8	1.60	0.67
2:AA:585:G:H5''	2:AA:586:A:OP2	1.95	0.67
2:AA:602:G:H4'	2:AA:603:A:O2'	1.95	0.67
2:AA:624:C:H5'	2:AA:625:G:OP2	1.95	0.67
2:AA:640:C:H2'	2:AA:641:C:C5'	2.18	0.67
4:AD:132:GLU:OE2	4:AD:186:LYS:HB2	1.94	0.67
4:AD:85:ASN:CB	4:AD:86:ARG:NE	2.58	0.67
5:AE:254:GLY:O	5:AE:255:GLN:O	2.12	0.67
5:AE:200:ASP:HA	5:AE:266:LYS:HD2	1.77	0.67
6:AF:84:VAL:C	6:AF:86:GLY:H	1.97	0.67
8:AH:86:LEU:HA	8:AH:148:ARG:CZ	2.22	0.67
9:AI:62:VAL:HG13	9:AI:100:ALA:O	1.95	0.67
9:AI:115:LYS:HZ3	9:AI:127:LEU:HD13	1.59	0.67
2:AA:1083:U:C3'	9:AI:36:PRO:C	2.49	0.67
9:AI:7:ILE:HG22	9:AI:11:GLU:OE2	1.95	0.67
9:AJ:73:VAL:HA	9:AJ:121:ALA:CB	2.24	0.67
9:AJ:78:ARG:HH22	11:AL:59:THR:CG2	2.07	0.67
10:AK:37:ILE:HG23	10:AK:38:GLU:N	2.09	0.67
13:AN:10:VAL:HG11	13:AN:12:ASP:O	1.95	0.67
13:AN:71:ARG:HH21	13:AN:77:ILE:HG21	1.58	0.67
16:AQ:69:TYR:CD1	16:AQ:69:TYR:N	2.62	0.67
18:AS:8:ARG:NH1	18:AS:8:ARG:CB	2.58	0.67
20:AU:112:LEU:H	20:AU:112:LEU:HD23	1.58	0.67
21:AV:103:ARG:HG2	21:AV:103:ARG:NH1	2.08	0.67
21:AV:37:LYS:HG3	21:AV:41:ARG:NH1	2.10	0.67
23:AX:18:ASP:O	23:AX:21:ALA:CB	2.43	0.67
34:BA:1072:G:C2	34:BA:1104:G:C2	2.83	0.67
34:BA:113:G:N7	34:BA:114:U:C5	2.63	0.67
34:BA:1255:G:O3'	34:BA:1258:G:H1'	1.95	0.67
34:BA:1426:C:N4	34:BA:1474:G:N1	2.05	0.67
34:BA:27:G:O5'	34:BA:27:G:H8	1.77	0.67
34:BA:294:U:C2	34:BA:295:C:C5	2.83	0.67
34:BA:486:U:H2'	34:BA:487:A:O5'	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:570:G:H4'	34:BA:820:U:C6	2.30	0.67
34:BA:632:A:H8	34:BA:632:A:O5'	1.78	0.67
34:BA:659:U:O2'	34:BA:660:G:C5'	2.43	0.67
34:BA:668:G:H1	34:BA:738:C:H42	0.78	0.67
34:BA:745:C:C5'	34:BA:851:G:H1'	2.25	0.67
34:BA:946:A:C2'	34:BA:947:G:H8	2.06	0.67
37:BE:12:GLU:C	37:BE:14:GLY:H	1.97	0.67
38:BF:40:ARG:O	38:BF:44:GLU:HG3	1.95	0.67
39:BG:177:ASP:CG	39:BG:179:GLU:HB2	2.15	0.67
39:BG:78:LEU:CD1	39:BG:97:LEU:HD23	2.25	0.67
40:BH:135:THR:O	40:BH:136:MET:C	2.33	0.67
43:BK:11:THR:HA	43:BK:14:ARG:NH1	2.10	0.67
34:BA:877:C:HO2'	43:BK:3:THR:HB	1.57	0.67
44:BL:27:THR:HB	44:BL:62:TYR:CD1	2.30	0.67
46:BN:84:VAL:CG2	46:BN:111:ASP:H	2.08	0.67
47:BO:38:THR:O	47:BO:39:VAL:HG23	1.95	0.67
47:BO:82:VAL:O	47:BO:106:ASP:HB2	1.94	0.67
49:BQ:14:PRO:HB2	49:BQ:17:LYS:O	1.93	0.67
49:BQ:29:ARG:NH1	49:BQ:42:ILE:HD11	2.10	0.67
51:BS:20:VAL:CG1	51:BS:32:TYR:HD2	2.07	0.67
51:BS:58:TYR:HD1	51:BS:59:TRP:CA	2.07	0.67
2:AA:2246:G:N3	2:AA:2247:A:N7	2.43	0.67
1:AB:35:U:C4	1:AB:36:C:C5	2.83	0.67
24:A0:60:LEU:N	24:A0:60:LEU:HD23	2.10	0.67
24:A0:90:ARG:HB2	24:A0:94:TYR:OH	1.94	0.67
24:A0:96:ARG:CG	24:A0:98:LEU:HD11	2.25	0.67
2:AA:18:C:OP1	25:A1:26:GLY:HA2	1.94	0.67
27:A3:78:PHE:H	27:A3:78:PHE:HD1	1.43	0.67
28:A4:58:LYS:HG2	28:A4:62:ARG:NE	2.10	0.67
29:A5:12:SER:HB3	29:A5:15:LYS:HZ2	1.60	0.67
30:A6:11:LYS:HZ3	32:A8:35:GLY:N	1.93	0.67
2:AA:1029:A:H2'	2:AA:1030:G:C5'	2.25	0.67
2:AA:1087:G:H2'	2:AA:1089:G:H4'	1.77	0.67
2:AA:813:U:H4'	2:AA:1226:G:H5'	1.76	0.67
2:AA:1300:U:C4'	2:AA:1301:A:O5'	2.42	0.67
2:AA:1348:G:O2'	2:AA:1349:A:H5'	1.94	0.67
2:AA:1457:A:O2'	2:AA:1458:C:H5'	1.95	0.67
2:AA:1472:A:C4	2:AA:1473:G:N7	2.63	0.67
2:AA:1498:C:H6	2:AA:1576:U:O2'	1.77	0.67
2:AA:1472:A:H2	2:AA:1519:G:N1	1.93	0.67
2:AA:1807:G:C1'	2:AA:1811:G:N2	2.58	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1825:A:C6	2:AA:1826:G:C6	2.83	0.67
2:AA:1857:G:N1	2:AA:1884:A:C6	2.62	0.67
2:AA:1983:C:O2'	2:AA:1984:G:H5'	1.95	0.67
2:AA:2119:A:C6	2:AA:2147:G:O5'	2.48	0.67
2:AA:2673:G:O2'	2:AA:2674:G:H5'	1.94	0.67
2:AA:273:G:C4	2:AA:273(A):G:N7	2.63	0.67
2:AA:327:G:N1	2:AA:328:U:C6	2.63	0.67
2:AA:457:A:H1'	2:AA:459:U:N3	2.10	0.67
2:AA:603:A:N6	2:AA:624:C:N4	2.43	0.67
2:AA:917:A:H2'	2:AA:918:A:O4'	1.94	0.67
2:AA:928:G:N3	2:AA:929:G:C6	2.63	0.67
1:AB:45:A:C1'	7:AG:76:ARG:HH12	2.08	0.67
1:AB:81:G:C5	1:AB:82:G:N7	2.63	0.67
1:AB:93:C:H2'	1:AB:94:C:H6	1.56	0.67
3:AC:10:LEU:HD23	3:AC:220:PRO:CD	2.24	0.67
4:AD:204:PHE:N	4:AD:204:PHE:HD1	1.91	0.67
6:AF:115:LEU:CG	6:AF:246:ARG:NH2	2.52	0.67
10:AK:52:GLN:HA	10:AK:55:GLN:NE2	2.10	0.67
11:AL:11:LEU:CD1	11:AL:28:LEU:HG	2.24	0.67
12:AM:57:TYR:HB2	12:AM:135:ILE:CG2	2.19	0.67
2:AA:2640:G:O3'	12:AM:70:PHE:CD2	2.46	0.67
13:AN:112:MET:O	13:AN:113:LYS:C	2.33	0.67
15:AP:88:PHE:CB	15:AP:90:PHE:CE1	2.74	0.67
20:AU:49:GLU:O	20:AU:97:ARG:HG3	1.95	0.67
21:AV:14:LEU:HG	21:AV:80:HIS:NE2	2.10	0.67
34:BA:1016:A:H2'	34:BA:1017:G:O4'	1.93	0.67
34:BA:1150:U:H1'	34:BA:1280:A:N6	2.10	0.67
34:BA:1203:C:H2'	34:BA:1204:A:O4'	1.95	0.67
34:BA:131:C:O2	34:BA:131:C:H2'	1.95	0.67
34:BA:1327:C:C5'	56:BX:20:LYS:HE2	2.25	0.67
34:BA:1504:G:H4'	34:BA:1505:G:O5'	1.93	0.67
34:BA:247:G:N3	34:BA:282:A:H2	1.93	0.67
34:BA:325:A:N7	34:BA:326:G:C5	2.62	0.67
34:BA:330:C:O2'	34:BA:331:G:H5'	1.94	0.67
34:BA:339:C:O2'	34:BA:340:U:H5'	1.95	0.67
34:BA:363:A:H5''	47:BO:105:TYR:OH	1.95	0.67
34:BA:370:C:C2'	34:BA:371:G:H5'	2.25	0.67
34:BA:593:G:O2'	34:BA:594:G:H5'	1.95	0.67
34:BA:646:U:O2'	34:BA:647:C:H5'	1.95	0.67
34:BA:649:G:H2'	34:BA:650:G:H8	1.59	0.67
34:BA:890:G:N1	34:BA:906:G:N7	2.42	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:910:C:H2'	34:BA:911:U:O4'	1.95	0.67
34:BA:93:G:C2'	34:BA:95:U:O4'	2.39	0.67
35:BB:51:G:C5	35:BB:52:U:C4	2.82	0.67
35:BB:64:A:C6	35:BB:65:G:C5	2.83	0.67
35:BB:49:C:H42	35:BB:65:G:H1	1.35	0.67
35:BB:7:U:C2	35:BB:67:A:C2	2.83	0.67
37:BE:35:GLU:O	37:BE:36:ARG:CZ	2.43	0.67
38:BF:73:PRO:O	38:BF:76:VAL:HB	1.95	0.67
38:BF:91:LEU:CD2	38:BF:98:ASN:HA	2.25	0.67
39:BG:102:ASP:HA	39:BG:105:VAL:HG23	1.77	0.67
41:BI:1:MET:SD	41:BI:68:PRO:HD3	2.35	0.67
41:BI:45:LEU:HA	41:BI:58:GLY:O	1.95	0.67
41:BI:81:ILE:CG2	41:BI:82:ARG:N	2.47	0.67
44:BL:66:ARG:C	44:BL:73:GLN:HE21	1.98	0.67
51:BS:58:TYR:O	51:BS:61:SER:CB	2.43	0.67
53:BU:46:GLU:C	53:BU:48:GLY:N	2.47	0.67
35:BB:26:G:C2	35:BB:27:C:O4'	2.48	0.67
35:BB:40:C:H5'	35:BB:41:U:P	2.34	0.67
10:AK:115:ILE:HA	10:AK:131:VAL:HA	1.77	0.67
36:B1:17:G:H2'	36:B1:18:U:C5	2.29	0.67
29:A5:57:VAL:HG13	29:A5:58:LEU:H	1.59	0.66
31:A7:34:ARG:HH12	31:A7:42:LEU:HA	1.60	0.66
2:AA:1179:C:H3'	2:AA:1179:C:OP2	1.95	0.66
2:AA:1683:C:N3	2:AA:1684:C:N4	2.42	0.66
2:AA:1703:G:O2'	2:AA:1704:G:H5'	1.95	0.66
2:AA:1807:G:H21	2:AA:1809:A:H5'	1.60	0.66
2:AA:1840:G:C2'	2:AA:1841:U:H5'	2.25	0.66
2:AA:2011:U:OP1	18:AS:42:ARG:NH1	2.28	0.66
2:AA:2013:A:C2'	2:AA:2014:A:H5'	2.24	0.66
2:AA:2121:G:N2	2:AA:2178:C:C2	2.63	0.66
2:AA:2120:G:N2	2:AA:2178:C:N3	2.40	0.66
2:AA:2231:C:H5''	28:A4:39:VAL:HG22	1.78	0.66
2:AA:2359:C:N3	2:AA:2360:A:C2	2.63	0.66
2:AA:2564:A:H2'	2:AA:2565:A:H8	1.60	0.66
2:AA:2706:G:C2	2:AA:2707:G:C8	2.83	0.66
2:AA:307:G:H21	2:AA:330:A:N6	1.91	0.66
2:AA:343:C:C4	2:AA:344:G:C5	2.83	0.66
2:AA:53:A:H8	2:AA:53:A:O5'	1.78	0.66
2:AA:996:A:N6	2:AA:1160:G:C6	2.62	0.66
1:AB:87:G:C2'	1:AB:89:G:N7	2.58	0.66
4:AD:103:ILE:CG1	4:AD:104:ILE:HG13	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:144:GLU:OE2	4:AD:148:GLY:N	2.28	0.66
2:AA:442:G:N3	6:AF:46:TYR:CZ	2.63	0.66
6:AF:54:LEU:O	6:AF:79:ARG:CZ	2.43	0.66
10:AK:3:VAL:HG21	10:AK:21:VAL:HG23	1.75	0.66
12:AM:10:VAL:HB	12:AM:36:VAL:CA	2.20	0.66
13:AN:103:ALA:O	13:AN:105:GLU:HG2	1.94	0.66
13:AN:47:THR:O	13:AN:49:GLY:N	2.27	0.66
13:AN:91:LYS:HB3	13:AN:111:PHE:HE2	1.58	0.66
15:AP:87:LYS:HB2	15:AP:122:PHE:CE2	2.30	0.66
2:AA:2334:G:N1	16:AQ:10:MET:HE2	1.95	0.66
21:AV:92:VAL:O	21:AV:124:ALA:HB2	1.94	0.66
21:AV:20:ALA:O	21:AV:80:HIS:HA	1.95	0.66
34:BA:1127:G:N2	34:BA:1144:G:N2	2.42	0.66
34:BA:1237:C:C4'	34:BA:1334:G:N2	2.57	0.66
34:BA:279:A:C1'	34:BA:281:G:N3	2.55	0.66
34:BA:592:G:C2'	34:BA:593:G:H5'	2.25	0.66
34:BA:666:G:C5'	34:BA:726:C:O2	2.35	0.66
34:BA:778:G:C4	34:BA:779:C:C5	2.83	0.66
34:BA:781:A:N6	34:BA:802:A:C4	2.63	0.66
34:BA:959:A:H5''	34:BA:960:U:OP2	1.94	0.66
35:BB:49:C:N4	35:BB:65:G:C6	2.57	0.66
37:BE:97:TRP:HZ2	37:BE:176:GLU:OE1	1.77	0.66
38:BF:150:LYS:HZ3	38:BF:152:ILE:HD11	1.59	0.66
39:BG:29:PRO:C	39:BG:30:LYS:HG3	2.15	0.66
42:BJ:22:LEU:HD23	42:BJ:63:LYS:NZ	2.11	0.66
43:BK:17:THR:HG23	43:BK:80:ILE:HD13	1.76	0.66
47:BO:39:VAL:HB	47:BO:57:LYS:CD	2.21	0.66
47:BO:90:VAL:CG1	47:BO:93:LEU:HD21	2.25	0.66
48:BP:19:LEU:O	48:BP:25:ILE:HD12	1.95	0.66
55:BW:51:GLU:HA	55:BW:54:LYS:HD2	1.77	0.66
55:BW:91:LEU:C	55:BW:93:GLU:H	1.98	0.66
35:BB:40:C:C5'	35:BB:41:U:OP2	2.38	0.66
10:AK:116:GLU:HB2	10:AK:130:PRO:O	1.95	0.66
2:AA:1508:A:C5'	2:AA:1510:A:N7	2.58	0.66
2:AA:2752:C:O2	2:AA:2752:C:H2'	1.96	0.66
24:A0:116:LEU:O	24:A0:116:LEU:HD12	1.95	0.66
30:A6:11:LYS:HZ3	32:A8:35:GLY:HA3	1.60	0.66
2:AA:1057:A:C8	2:AA:1085:A:N1	2.63	0.66
2:AA:1084:A:N9	9:AI:25:LEU:HB3	2.10	0.66
2:AA:1177:A:H2'	2:AA:1178:C:H6	1.59	0.66
2:AA:1184:G:H2'	2:AA:1185:C:H6	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1404:C:O2'	2:AA:1405:U:H5'	1.95	0.66
2:AA:762:U:N3	2:AA:1431:U:OP1	2.28	0.66
2:AA:1449:A:H2	2:AA:449(A):G:H1'	1.59	0.66
2:AA:1529:A:N7	2:AA:1543:A:C8	2.63	0.66
2:AA:1539:G:H2'	2:AA:1540:G:C5	2.31	0.66
2:AA:162:U:H4'	2:AA:171:G:N2	2.11	0.66
2:AA:1753:G:H8	2:AA:1753:G:H3'	1.61	0.66
2:AA:1754:C:H2'	2:AA:1755:A:O4'	1.95	0.66
2:AA:1935:G:C8	2:AA:1962:C:N4	2.64	0.66
2:AA:1945:G:N2	2:AA:1946:U:C2	2.63	0.66
2:AA:208:C:H2'	2:AA:209:C:C6	2.29	0.66
2:AA:2126:A:H2'	2:AA:2127:G:H5''	1.75	0.66
2:AA:2178:C:H1'	3:AC:168:THR:HB	1.78	0.66
2:AA:2297:C:H2'	2:AA:2298:A:C8	2.29	0.66
2:AA:2291:U:OP1	2:AA:2381:C:H5'	1.95	0.66
2:AA:2514:U:O2'	2:AA:2515:C:O4'	2.10	0.66
2:AA:2576:G:H4'	2:AA:2577:A:H5''	1.76	0.66
2:AA:2584:U:H2'	2:AA:2585:U:OP1	1.95	0.66
2:AA:2758:A:N3	2:AA:2758:A:H2'	2.07	0.66
2:AA:292:C:C3'	2:AA:293:U:N3	2.58	0.66
2:AA:588:U:C6	2:AA:588:U:OP2	2.49	0.66
2:AA:632:A:O2'	2:AA:633:A:H5'	1.96	0.66
2:AA:681:G:N2	2:AA:796:C:N3	2.42	0.66
2:AA:828:U:H4'	2:AA:831:G:C2	2.30	0.66
2:AA:85:G:H1	2:AA:97:C:N4	1.92	0.66
2:AA:919:G:C4	2:AA:920:G:N7	2.62	0.66
3:AC:76:ALA:HB1	3:AC:86:ALA:CB	2.24	0.66
2:AA:2729:G:H21	5:AE:300:VAL:HG11	1.59	0.66
6:AF:162:VAL:HG12	6:AF:163:HIS:N	2.10	0.66
6:AF:52:ALA:CA	6:AF:55:ARG:HE	2.09	0.66
2:AA:2313:C:C4'	7:AG:72:LYS:HG3	2.26	0.66
7:AG:82:GLU:HA	7:AG:85:GLN:CD	2.15	0.66
9:AI:76:VAL:CG2	9:AI:121:ALA:HB2	2.22	0.66
9:AJ:66:PHE:CE2	9:AJ:92:VAL:HG13	2.31	0.66
11:AL:28:LEU:HB3	11:AL:33:VAL:HB	1.78	0.66
13:AN:120:GLU:HG2	13:AN:122:ILE:CD1	2.25	0.66
13:AN:25:LEU:HD12	13:AN:38:VAL:C	2.16	0.66
13:AN:31:ARG:C	13:AN:32:TYR:CD1	2.68	0.66
14:AO:64:ILE:HB	14:AO:107:LYS:O	1.95	0.66
2:AA:636:G:OP2	14:AO:126:SER:HA	1.96	0.66
15:AP:117:GLY:O	15:AP:118:ALA:HB3	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:137:ARG:HD3	15:AP:138:ARG:N	2.10	0.66
15:AP:28:ILE:HG23	15:AP:62:GLU:CD	2.16	0.66
16:AQ:120:GLU:HA	16:AQ:123:ILE:CD1	2.26	0.66
18:AS:22:ASP:O	18:AS:25:ARG:HB2	1.95	0.66
19:AT:55:GLN:C	19:AT:56:ASN:HD22	1.97	0.66
21:AV:168:VAL:O	21:AV:169:VAL:HG23	1.94	0.66
21:AV:40:ASP:CB	21:AV:41:ARG:HH21	2.07	0.66
21:AV:69:VAL:CG2	21:AV:81:VAL:HG13	2.26	0.66
36:B1:56:A:H2'	36:B1:56:A:N3	2.09	0.66
34:BA:1289:A:H2'	34:BA:1290:G:O5'	1.96	0.66
34:BA:1396:A:O4'	34:BA:1398:A:H1'	1.95	0.66
34:BA:1447:G:O2'	34:BA:1448:C:H5'	1.94	0.66
34:BA:190(I):G:H2'	34:BA:190(J):U:H6	1.58	0.66
34:BA:37:U:H1'	34:BA:548:G:N2	2.10	0.66
34:BA:518:C:O2'	34:BA:519:C:OP2	2.13	0.66
34:BA:830:G:C2	34:BA:857:C:C2	2.84	0.66
34:BA:987:G:O2'	34:BA:988:G:H5'	1.95	0.66
35:BB:64:A:C6	35:BB:65:G:C6	2.83	0.66
35:BC:8:U:O4'	35:BC:48:C:O2'	2.12	0.66
38:BF:11:ARG:HH11	38:BF:11:ARG:HG3	1.59	0.66
38:BF:139:GLN:NE2	38:BF:139:GLN:HA	2.07	0.66
41:BI:80:ARG:HG2	41:BI:80:ARG:NH1	2.11	0.66
42:BJ:149:ARG:O	42:BJ:152:ALA:N	2.22	0.66
43:BK:109:ILE:HD11	43:BK:111:ILE:HD11	1.77	0.66
43:BK:6:ILE:CD1	43:BK:7:ALA:N	2.57	0.66
46:BN:84:VAL:CG2	46:BN:110:ASP:HA	2.24	0.66
34:BA:1228:C:H4'	48:BP:115:LYS:O	1.95	0.66
48:BP:14:ARG:N	48:BP:44:ARG:NE	2.43	0.66
50:BR:64:ARG:CG	50:BR:65:ARG:N	2.59	0.66
54:BV:18:LYS:CE	54:BV:18:LYS:HA	2.25	0.66
2:AA:2833:G:OP1	2:AA:2833:G:H8	1.77	0.66
24:A0:83:ILE:CG2	24:A0:86:ARG:HE	2.09	0.66
2:AA:1156:A:C2	25:A1:51:ARG:CZ	2.78	0.66
27:A3:14:ARG:H	27:A3:14:ARG:NH1	1.92	0.66
27:A3:68:VAL:O	27:A3:70:ILE:N	2.27	0.66
29:A5:34:PRO:CG	29:A5:35:GLN:N	2.57	0.66
2:AA:1005:C:C6	2:AA:1143:A:OP1	2.47	0.66
2:AA:126:A:N7	2:AA:127:A:C5	2.63	0.66
2:AA:1290:C:H2'	2:AA:1291:C:H6	1.60	0.66
2:AA:122:G:N2	2:AA:130:C:H1'	2.11	0.66
2:AA:1422:G:C2	2:AA:1423:G:C5	2.84	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1441:G:H2'	2:AA:1442:G:H5'	1.76	0.66
2:AA:1664:A:C8	2:AA:1664:A:O5'	2.47	0.66
2:AA:1727:U:O2	2:AA:1733:G:O6	2.14	0.66
2:AA:1819:A:O2'	2:AA:1820:U:OP2	2.12	0.66
2:AA:1854:A:N3	2:AA:2087:G:N2	2.43	0.66
2:AA:1993:U:H4'	5:AE:228:ARG:CZ	2.24	0.66
2:AA:2142:C:O2	2:AA:2142:C:H2'	1.93	0.66
2:AA:2788:C:H4'	2:AA:2810:A:H5'	1.76	0.66
2:AA:2834:G:O6	2:AA:2835:A:H2	1.78	0.66
2:AA:465:G:N3	2:AA:683:C:O2'	2.24	0.66
2:AA:627:A:OP2	2:AA:627:A:C4'	2.44	0.66
2:AA:644:A:O2'	2:AA:646:A:N7	2.28	0.66
2:AA:749:C:H3'	2:AA:749:C:H6	1.57	0.66
2:AA:869:G:H2'	2:AA:870:A:C5'	2.25	0.66
2:AA:987:G:H8	2:AA:987:G:O5'	1.78	0.66
3:AC:110:PHE:HE1	3:AC:136:LEU:HD22	1.61	0.66
3:AC:47:LEU:O	3:AC:49:ILE:HG12	1.95	0.66
3:AC:75:LEU:CD2	3:AC:103:ILE:HD11	2.26	0.66
4:AD:135:PRO:O	4:AD:138:THR:OG1	2.11	0.66
5:AE:79:ARG:HA	5:AE:186:GLU:CA	2.26	0.66
2:AA:1675:C:N4	5:AE:224:GLY:O	2.29	0.66
2:AA:2730:C:C4'	5:AE:265:ASN:HD21	1.97	0.66
5:AE:204:VAL:O	5:AE:303:PRO:HD3	1.94	0.66
6:AF:215:ALA:HA	6:AF:242:GLU:CG	2.24	0.66
7:AG:105:SER:CB	7:AG:130:VAL:O	2.43	0.66
9:AI:66:PHE:CE2	9:AI:92:VAL:HG13	2.30	0.66
10:AK:3:VAL:HG12	10:AK:19:LYS:H	1.61	0.66
13:AN:35:ILE:CD1	13:AN:35:ILE:N	2.51	0.66
14:AO:66:VAL:HG12	14:AO:67:ARG:H	1.58	0.66
16:AQ:115:VAL:O	16:AQ:119:GLN:HG3	1.95	0.66
2:AA:2378:A:O2'	16:AQ:29:SER:O	2.08	0.66
17:AR:53:ASP:O	17:AR:56:ARG:CD	2.44	0.66
19:AT:42:GLU:OE1	19:AT:49:VAL:HG23	1.96	0.66
21:AV:107:GLU:O	21:AV:109:GLN:N	2.28	0.66
22:AW:19:GLU:HG2	22:AW:23:LEU:HD11	1.77	0.66
22:AW:27:LEU:O	22:AW:30:ALA:HB3	1.96	0.66
34:BA:1062:U:C2'	34:BA:1063:C:C6	2.69	0.66
34:BA:1414:U:C2	34:BA:1415:G:N7	2.64	0.66
34:BA:169:C:H2'	34:BA:170:U:C6	2.30	0.66
34:BA:286:G:H2'	34:BA:287:U:H6	1.60	0.66
34:BA:363:A:HO2'	34:BA:364:A:H5'	1.58	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:898:G:C6	34:BA:902:G:O6	2.47	0.66
34:BA:923:A:H2'	34:BA:924:C:C6	2.30	0.66
35:BC:11:C:O2'	35:BC:12:U:H5'	1.94	0.66
35:BC:34:G:C2'	35:BC:35:A:H5''	2.25	0.66
37:BE:79:ASP:O	37:BE:83:MET:HG2	1.95	0.66
38:BF:97:LYS:O	38:BF:98:ASN:O	2.12	0.66
40:BH:31:LEU:HD23	40:BH:31:LEU:C	2.16	0.66
40:BH:72:GLN:O	40:BH:73:ASN:CB	2.43	0.66
41:BI:6:VAL:HG13	41:BI:63:TYR:H	1.59	0.66
42:BJ:16:LEU:O	42:BJ:17:VAL:HG23	1.96	0.66
46:BN:27:ASN:ND2	46:BN:55:LYS:NZ	2.43	0.66
47:BO:100:ILE:N	47:BO:100:ILE:HD13	2.10	0.66
49:BQ:17:LYS:HG3	49:BQ:18:VAL:N	2.08	0.66
49:BQ:23:ARG:H	49:BQ:33:VAL:CG2	2.08	0.66
50:BR:40:SER:O	50:BR:41:GLU:C	2.32	0.66
52:BT:31:LEU:O	52:BT:32:TYR:CD2	2.47	0.66
52:BT:57:VAL:HG23	52:BT:58:GLU:N	2.09	0.66
52:BT:86:GLU:OE2	52:BT:89:LEU:HD12	1.96	0.66
54:BV:66:MET:HB2	54:BV:74:PHE:CE2	2.31	0.66
55:BW:55:ILE:O	55:BW:56:MET:C	2.34	0.66
35:BB:30:G:C8	35:BB:30:G:O5'	2.48	0.66
2:AA:258:G:H8	2:AA:258:G:O5'	1.78	0.66
25:A1:25:TRP:O	25:A1:28:ARG:NH1	2.28	0.66
30:A6:13:GLU:O	30:A6:52:GLU:O	2.14	0.66
2:AA:2400:G:O3'	30:A6:20:PHE:CZ	2.48	0.66
2:AA:125:G:H3'	31:A7:19:ARG:CZ	2.25	0.66
31:A7:38:GLY:O	31:A7:40:HIS:CE1	2.48	0.66
2:AA:1029:A:O2'	2:AA:1030:G:P	2.53	0.66
2:AA:1031:G:H4'	33:A9:8:LYS:NZ	2.09	0.66
2:AA:1060:U:H5''	2:AA:1061:U:C4	2.31	0.66
2:AA:1191:G:H2'	2:AA:1192:G:H8	1.59	0.66
2:AA:1213:A:C2	2:AA:1237:A:H1'	2.30	0.66
2:AA:1413:G:O2'	2:AA:1414:G:H5'	1.95	0.66
2:AA:1707:G:H1'	2:AA:1756:G:H1'	1.77	0.66
2:AA:1846:G:N2	2:AA:1895:C:C2	2.62	0.66
2:AA:1999:C:O2'	2:AA:2000:G:H5'	1.95	0.66
2:AA:2190:G:O2'	2:AA:2191:G:H5'	1.94	0.66
2:AA:2291:U:H2'	2:AA:2292:C:C6	2.31	0.66
2:AA:237:C:C5	2:AA:238:C:H5	2.14	0.66
2:AA:197:A:H61	2:AA:248:G:H22	1.41	0.66
2:AA:2570:G:H5''	2:AA:2571:C:OP2	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2617:C:N3	2:AA:2618:G:C8	2.63	0.66
2:AA:2797:U:C4'	2:AA:2797:U:OP1	2.43	0.66
2:AA:2793:G:H1	2:AA:2803:C:H42	1.44	0.66
2:AA:2861:G:C2'	2:AA:2862:G:O5'	2.43	0.66
2:AA:272:G:H1	2:AA:365:C:N4	1.93	0.66
2:AA:410:G:C2	2:AA:2407:G:N7	2.63	0.66
2:AA:457:A:C1'	2:AA:459:U:O2	2.44	0.66
2:AA:529:A:C2'	2:AA:530:G:C8	2.75	0.66
2:AA:536:A:O5'	2:AA:536:A:H8	1.78	0.66
2:AA:711:G:O2'	2:AA:712:G:H5'	1.96	0.66
2:AA:83:G:O2'	2:AA:84:A:P	2.54	0.66
2:AA:867:C:O2	2:AA:867:C:H2'	1.95	0.66
2:AA:902:C:O2'	2:AA:903:C:H5'	1.95	0.66
2:AA:941:A:C2	2:AA:942:G:H1'	2.30	0.66
5:AE:85:ALA:CB	5:AE:87:GLU:CD	2.63	0.66
7:AG:140:ARG:HD2	7:AG:144:ARG:HH22	1.60	0.66
9:AI:72:GLN:HA	9:AI:75:LYS:CD	2.25	0.66
9:AJ:71:ILE:HG12	11:AL:62:GLU:H	1.59	0.66
9:AJ:72:GLN:HA	9:AJ:75:LYS:CD	2.26	0.66
11:AL:28:LEU:HD11	11:AL:58:ILE:CD1	2.25	0.66
15:AP:64:ALA:HA	15:AP:142:LYS:HG2	1.77	0.66
15:AP:15:THR:H	15:AP:20:ILE:HD13	1.58	0.66
16:AQ:81:ALA:HB3	16:AQ:117:ALA:CB	2.23	0.66
18:AS:14:PRO:O	18:AS:17:VAL:HB	1.96	0.66
2:AA:2013:A:OP1	18:AS:96:ILE:CB	2.43	0.66
21:AV:54:ILE:CG2	21:AV:55:THR:N	2.59	0.66
34:BA:1301:U:O4	34:BA:1303:C:H1'	1.95	0.66
34:BA:1300:G:C2	34:BA:1335:C:C2	2.83	0.66
34:BA:1470:G:O2'	34:BA:1471:G:C5'	2.42	0.66
34:BA:579:G:H2'	34:BA:580:U:C5'	2.25	0.66
34:BA:668:G:H1'	50:BR:46:HIS:HE2	1.56	0.66
34:BA:755:G:H2'	34:BA:756:C:C6	2.30	0.66
34:BA:902:G:N2	34:BA:903:G:H1'	2.11	0.66
35:BC:57:G:H2'	35:BC:58:A:H5''	1.77	0.66
37:BE:69:LEU:HD12	37:BE:162:ILE:CB	2.23	0.66
38:BF:16:ARG:HH22	38:BF:184:TYR:N	1.93	0.66
39:BG:123:HIS:HB2	39:BG:125:HIS:NE2	2.09	0.66
42:BJ:68:ASN:HD21	42:BJ:128:ALA:CA	2.00	0.66
46:BN:85:ARG:NE	46:BN:111:ASP:CG	2.48	0.66
47:BO:46:LYS:O	47:BO:48:PRO:O	2.14	0.66
45:BM:51:ARG:HA	49:BQ:45:ARG:NE	2.10	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BR:27:VAL:O	50:BR:31:LEU:HB2	1.95	0.66
34:BA:625:G:H4'	51:BS:16:HIS:CG	2.30	0.66
52:BT:26:GLN:O	52:BT:27:PHE:HB3	1.95	0.66
54:BV:62:ILE:HG13	54:BV:63:THR:H	1.60	0.66
24:A0:86:ARG:NH1	24:A0:118:GLU:OE1	2.24	0.66
24:A0:37:THR:H	24:A0:40:LYS:HB2	1.61	0.66
25:A1:55:ARG:CG	25:A1:58:ARG:HE	2.09	0.66
25:A1:59:ARG:CA	25:A1:62:ILE:HG12	2.25	0.66
26:A2:78:VAL:HG23	26:A2:82:ARG:CB	2.18	0.66
26:A2:69:ILE:HG23	26:A2:90:PHE:O	1.94	0.66
27:A3:25:LYS:H	27:A3:58:THR:HB	1.60	0.66
2:AA:2354:G:C1'	27:A3:31:VAL:HG13	2.26	0.66
2:AA:1102:C:C1'	2:AA:1103:A:C8	2.78	0.66
2:AA:1160:G:O2'	2:AA:1161:C:H5'	1.95	0.66
2:AA:1265:A:OP2	2:AA:2615:U:OP1	2.14	0.66
2:AA:1375:C:H2'	2:AA:1376:C:H6	1.60	0.66
2:AA:138:G:C6	2:AA:142:G:O2'	2.48	0.66
2:AA:1570:A:N6	2:AA:1571:A:H62	1.92	0.66
2:AA:1580:A:H2'	2:AA:1581:G:C4	2.30	0.66
2:AA:1655:A:O4'	2:AA:1655:A:OP2	2.13	0.66
2:AA:1750:G:O2'	2:AA:1751:C:H5'	1.94	0.66
2:AA:2252:G:O2'	2:AA:2253:G:H5'	1.96	0.66
2:AA:2264:C:C4	2:AA:2265:U:C5	2.83	0.66
2:AA:2364:C:C5'	27:A3:38:VAL:HG13	2.26	0.66
2:AA:245:G:P	14:A0:53:ARG:HD3	2.35	0.66
2:AA:1669:A:H4'	2:AA:2550:G:OP1	1.95	0.66
2:AA:270(X):G:O2'	2:AA:272:G:H4'	1.96	0.66
2:AA:2787:C:H2'	2:AA:2788:C:H6	1.59	0.66
2:AA:286:C:O5'	2:AA:286:C:H6	1.78	0.66
2:AA:641:C:H3'	2:AA:641:C:OP2	1.95	0.66
2:AA:705:A:H2'	2:AA:705:A:N3	2.11	0.66
2:AA:729:G:O6	4:AD:207:ALA:HA	1.96	0.66
2:AA:740:U:C5	2:AA:741:G:N7	2.64	0.66
2:AA:828:U:H2'	2:AA:829:A:H8	1.52	0.66
2:AA:869:G:N1	2:AA:908:C:N4	2.34	0.66
2:AA:979:G:C3'	2:AA:979:G:C8	2.79	0.66
1:AB:42:C:H5'	7:AG:48:MET:CG	2.26	0.66
4:AD:90:ILE:CG1	4:AD:105:ALA:H	2.08	0.66
2:AA:1819:A:C8	4:AD:177:SER:OG	2.49	0.66
5:AE:299:SER:OG	5:AE:301:PRO:CD	2.38	0.66
6:AF:193:LEU:HB2	6:AF:233:THR:HG21	1.75	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:196:THR:C	6:AF:236:THR:OG1	2.34	0.66
6:AF:45:ASP:HB3	6:AF:98:ARG:CD	2.26	0.66
8:AH:87:GLU:H	8:AH:148:ARG:HH21	1.41	0.66
8:AH:8:ILE:HG22	8:AH:9:GLU:N	2.09	0.66
10:AK:7:LYS:CB	10:AK:14:LYS:HE2	2.26	0.66
11:AL:12:GLN:O	11:AL:13:LEU:HD23	1.95	0.66
12:AM:21:ARG:HA	12:AM:24:SER:OG	1.96	0.66
2:AA:1137:G:O2'	12:AM:85:GLY:HA3	1.95	0.66
13:AN:10:VAL:CG1	13:AN:12:ASP:O	2.42	0.66
2:AA:2727:G:C4'	13:AN:70:ARG:NH2	2.58	0.66
14:AO:116:HIS:CD2	14:AO:118:LEU:HD11	2.31	0.66
14:AO:94:ARG:NH2	14:AO:118:LEU:O	2.29	0.66
14:AO:67:ARG:H	14:AO:67:ARG:HE	1.31	0.66
15:AP:31:PHE:CA	15:AP:85:ILE:HD11	2.14	0.66
17:AR:22:VAL:HG12	17:AR:28:THR:HB	1.77	0.66
18:AS:24:ILE:HB	18:AS:32:ALA:HB1	1.75	0.66
2:AA:1183:G:H5''	23:AX:29:ARG:CZ	2.25	0.66
34:BA:1068:G:C8	34:BA:1094:G:C8	2.84	0.66
34:BA:112:G:C2'	34:BA:113:G:H5'	2.26	0.66
34:BA:1133:G:N2	34:BA:1141:C:N3	2.39	0.66
34:BA:1201:A:O2'	34:BA:1202:G:H5'	1.95	0.66
34:BA:135:C:H3'	34:BA:135:C:C6	2.30	0.66
34:BA:819:A:C2	34:BA:1529:G:O6	2.48	0.66
34:BA:250:A:C2	34:BA:274:A:N1	2.62	0.66
34:BA:389:A:H2'	34:BA:390:C:O5'	1.94	0.66
34:BA:59:A:C2	34:BA:331:G:C2	2.83	0.66
34:BA:609:A:H2'	34:BA:610:G:O4'	1.95	0.66
34:BA:69:G:H2'	34:BA:70:G:H8	1.60	0.66
34:BA:881:G:C6	34:BA:882:C:C4	2.83	0.66
38:BF:195:VAL:C	38:BF:196:LEU:HD23	2.15	0.66
38:BF:29:TYR:O	38:BF:32:LEU:HB2	1.96	0.66
40:BH:91:LEU:HD21	40:BH:118:ILE:CG2	2.26	0.66
40:BH:18:ARG:O	40:BH:25:ARG:O	2.14	0.66
41:BI:25:ILE:O	41:BI:28:ARG:HB2	1.95	0.66
41:BI:45:LEU:CD2	41:BI:59:TYR:HD1	2.08	0.66
34:BA:737:A:OP1	41:BI:91:VAL:CA	2.42	0.66
45:BM:60:ARG:HB2	45:BM:60:ARG:HH11	1.60	0.66
45:BM:40:LEU:HD11	45:BM:71:LEU:HG	1.77	0.66
46:BN:54:ARG:C	46:BN:56:GLY:N	2.48	0.66
46:BN:20:TYR:CZ	46:BN:83:ILE:HG12	2.30	0.66
34:BA:528:C:N4	47:BO:49:ASN:ND2	2.42	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BO:55:VAL:O	47:BO:70:ILE:HD11	1.96	0.66
47:BO:7:ILE:HA	47:BO:10:LEU:HD12	1.76	0.66
47:BO:6:THR:OG1	47:BO:9:GLN:CG	2.44	0.66
49:BQ:24:CYS:SG	49:BQ:27:CYS:N	2.69	0.66
25:A1:9:VAL:C	25:A1:13:ARG:HH22	1.98	0.66
2:AA:973:A:H61	26:A2:81:ARG:HG3	1.60	0.66
31:A7:11:LYS:O	31:A7:12:ARG:C	2.34	0.66
2:AA:1028:A:O2'	2:AA:1029:A:H5'	1.96	0.66
2:AA:1029:A:HO2'	2:AA:1030:G:P	2.19	0.66
2:AA:1063:G:H2'	2:AA:1064:C:C6	2.30	0.66
2:AA:1102:C:C2'	2:AA:1103:A:H8	2.08	0.66
2:AA:1239:G:C4	2:AA:1240:U:C5	2.83	0.66
2:AA:1472:A:H2'	2:AA:1473:G:C8	2.29	0.66
2:AA:1636:C:C1'	2:AA:1761:C:H1'	2.26	0.66
2:AA:1699:G:N7	2:AA:1763:G:N2	2.44	0.66
2:AA:1995:U:OP1	5:AE:220:GLN:NE2	2.29	0.66
2:AA:2137:C:H3'	2:AA:2138:C:C6	2.31	0.66
2:AA:2316:C:O2'	7:AG:151:ILE:HG13	1.96	0.66
2:AA:2261:C:H5'	2:AA:2388:A:H4'	1.77	0.66
2:AA:199:A:H2'	2:AA:2433:A:N6	2.09	0.66
2:AA:2067:G:N1	2:AA:2443:C:N4	2.28	0.66
2:AA:2531:A:H2'	2:AA:2532:G:H5'	1.77	0.66
2:AA:2533:A:OP1	2:AA:2665:A:H1'	1.96	0.66
2:AA:297:C:N3	2:AA:298:G:H1'	2.11	0.66
2:AA:563:G:N2	25:A1:37:GLN:NE2	2.31	0.66
2:AA:624:C:O2	2:AA:624:C:C2'	2.38	0.66
2:AA:675:A:C2'	2:AA:676:A:H5'	2.24	0.66
2:AA:769:G:C2	2:AA:770:G:C8	2.84	0.66
2:AA:957:A:C2	2:AA:2459:A:H5'	2.29	0.66
3:AC:123:VAL:O	3:AC:137:LEU:HD21	1.96	0.66
3:AC:28:LEU:O	3:AC:28:LEU:HD12	1.95	0.66
3:AC:75:LEU:HD11	3:AC:107:TRP:HH2	1.59	0.66
4:AD:90:ILE:HD12	4:AD:105:ALA:HB2	1.77	0.66
4:AD:162:GLN:OE1	4:AD:174:ARG:HB3	1.96	0.66
2:AA:2512:C:H5''	5:AE:219:VAL:CG1	2.25	0.66
5:AE:216:ARG:HD3	5:AE:253:GLN:CA	2.24	0.66
6:AF:232:LEU:C	6:AF:233:THR:HG22	2.16	0.66
8:AH:119:GLY:O	8:AH:121:GLU:OE2	2.14	0.66
9:AI:103:LYS:CB	9:AI:114:ILE:HD13	2.26	0.66
9:AJ:18:LEU:HD13	9:AJ:45:ALA:N	2.10	0.66
11:AL:75:ALA:CA	11:AL:112:LYS:HZ2	2.08	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:12:VAL:O	12:AM:38:VAL:CA	2.42	0.66
14:AO:104:ASP:O	14:AO:105:TYR:CG	2.49	0.66
16:AQ:122:ALA:O	16:AQ:125:ALA:HB3	1.95	0.66
16:AQ:35:VAL:HG11	16:AQ:37:ARG:NE	2.09	0.66
17:AR:53:ASP:O	17:AR:56:ARG:CZ	2.43	0.66
18:AS:58:ALA:O	18:AS:63:ASP:N	2.28	0.66
20:AU:42:VAL:HA	20:AU:112:LEU:CD1	2.18	0.66
21:AV:16:GLU:C	21:AV:36:ARG:NH1	2.49	0.66
23:AX:16:PRO:HB2	23:AX:19:GLN:HG2	1.76	0.66
34:BA:1172:C:H2'	34:BA:1173:G:C8	2.24	0.66
34:BA:1248:A:N6	34:BA:1249:C:H42	1.93	0.66
34:BA:1278:U:C5'	34:BA:1279:A:O4'	2.44	0.66
34:BA:1326:C:H2'	34:BA:1327:C:H6	1.59	0.66
34:BA:1425:U:H3	34:BA:1475:G:H1	1.43	0.66
34:BA:155:C:H2'	34:BA:156:G:H8	1.59	0.66
34:BA:496:A:H4'	34:BA:497:A:O5'	1.96	0.66
34:BA:541:G:H2'	34:BA:542:G:H8	1.60	0.66
34:BA:649:G:H2'	34:BA:650:G:C8	2.31	0.66
34:BA:704:A:H2'	34:BA:705:U:H6	1.60	0.66
34:BA:575:G:N2	34:BA:880:C:C2	2.60	0.66
35:BC:48:C:H5'	35:BC:49:C:O5'	1.95	0.66
37:BE:212:GLN:NE2	37:BE:215:LEU:HB3	2.11	0.66
39:BG:8:VAL:O	39:BG:11:LEU:N	2.27	0.66
42:BJ:142:GLU:O	42:BJ:145:ALA:O	2.13	0.66
42:BJ:77:SER:O	42:BJ:156:TRP:CH2	2.49	0.66
43:BK:38:ILE:HA	43:BK:41:ARG:CB	2.26	0.66
43:BK:63:LEU:HB2	43:BK:65:TYR:CZ	2.31	0.66
44:BL:118:LYS:C	44:BL:120:ARG:N	2.48	0.66
45:BM:49:VAL:HG21	49:BQ:44:LEU:HD21	1.78	0.66
51:BS:7:ALA:HB1	51:BS:9:PHE:HE2	1.61	0.66
52:BT:92:ARG:O	52:BT:95:TYR:N	2.28	0.66
53:BU:61:LYS:O	53:BU:65:ILE:HG12	1.96	0.66
54:BV:64:GLU:CG	54:BV:65:ASN:N	2.59	0.66
34:BA:333:G:H4'	55:BW:16:HIS:HE2	1.60	0.66
10:AK:111:ASP:CB	10:AK:114:LYS:HG2	2.26	0.66
10:AK:95:SER:OG	10:AK:98:ILE:CD1	2.43	0.66
10:AK:66:LYS:O	10:AK:69:LYS:HE2	1.96	0.66
24:A0:26:LYS:HE2	24:A0:70:LEU:O	1.96	0.66
25:A1:50:ARG:CZ	26:A2:74:TYR:HD2	2.09	0.66
25:A1:7:GLY:CA	25:A1:8:ILE:HD12	2.26	0.66
26:A2:15:SER:OG	26:A2:16:GLU:N	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:A2:21:ARG:O	26:A2:22:VAL:O	2.13	0.66
28:A4:59:PHE:O	28:A4:60:ASN:C	2.34	0.66
2:AA:1129:A:O2'	2:AA:2515:C:H2'	1.96	0.66
2:AA:1198:U:H2'	2:AA:1199:U:C6	2.31	0.66
2:AA:331:A:C5	2:AA:1209:G:C2	2.84	0.66
2:AA:1529:A:C2	2:AA:1530:G:H4'	2.31	0.66
2:AA:152:G:H5''	2:AA:153:C:OP2	1.95	0.66
2:AA:1332:G:N9	2:AA:1609:A:N1	2.43	0.66
2:AA:1683:C:H42	2:AA:1684:C:N4	1.94	0.66
2:AA:1725:G:C2	2:AA:1726:G:C8	2.84	0.66
2:AA:1837:C:N3	2:AA:1903:G:N2	2.35	0.66
2:AA:414:C:C4'	2:AA:1863:G:H21	2.09	0.66
2:AA:1924:C:C2	2:AA:1925:C:C5	2.82	0.66
2:AA:1967:C:H2'	2:AA:1967:C:O2	1.94	0.66
2:AA:2027:G:H2'	2:AA:2028:U:H6	1.59	0.66
2:AA:2043:C:O2'	2:AA:2044:C:O5'	2.14	0.66
2:AA:2076:U:O2'	2:AA:2077:A:H5''	1.96	0.66
2:AA:2398:U:H2'	2:AA:2399:G:C8	2.29	0.66
2:AA:2718:G:H2'	2:AA:2719:G:H8	1.61	0.66
2:AA:2791:C:N3	2:AA:2805:G:C6	2.64	0.66
2:AA:30:G:OP2	25:A1:5:LYS:HD3	1.96	0.66
2:AA:290:G:H22	2:AA:350:U:H2'	1.60	0.66
2:AA:365:C:C4	2:AA:366:C:C5	2.83	0.66
2:AA:386:G:O2'	2:AA:387:U:P	2.54	0.66
2:AA:458:G:C2'	2:AA:469:G:H1	2.09	0.66
2:AA:775:G:H2'	2:AA:794:G:C8	2.28	0.66
2:AA:957:A:C8	2:AA:959:A:C8	2.82	0.66
2:AA:996:A:C5	2:AA:1160:G:N1	2.63	0.66
4:AD:128:ALA:HB2	4:AD:190:THR:CA	2.26	0.66
4:AD:194:VAL:HG21	4:AD:196:ASN:ND2	2.10	0.66
5:AE:213:PRO:HB2	5:AE:235:ILE:HG12	1.76	0.66
5:AE:231:TRP:C	5:AE:232:ARG:HG3	2.14	0.66
5:AE:263:GLU:H	5:AE:266:LYS:HZ2	1.44	0.66
5:AE:269:ILE:HG23	5:AE:297:LYS:HZ2	1.59	0.66
5:AE:85:ALA:O	5:AE:96:LEU:O	2.14	0.66
6:AF:151:GLN:O	6:AF:154:VAL:HB	1.96	0.66
6:AF:35:VAL:C	6:AF:39:GLN:NE2	2.47	0.66
6:AF:55:ARG:C	6:AF:79:ARG:CZ	2.64	0.66
6:AF:93:LYS:CB	6:AF:96:LYS:HG3	2.24	0.66
7:AG:14:ARG:HA	7:AG:137:PRO:CD	2.25	0.66
7:AG:40:ILE:O	7:AG:44:ILE:HG13	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:10:ILE:HD12	8:AH:49:ILE:HG13	1.76	0.66
11:AL:129:GLU:HB2	11:AL:139:VAL:HG11	1.76	0.66
11:AL:11:LEU:HD12	11:AL:58:ILE:HD12	1.77	0.66
11:AL:93:LYS:HD3	11:AL:96:ILE:HD12	1.78	0.66
12:AM:17:CYS:SG	12:AM:44:ALA:HB1	2.36	0.66
16:AQ:104:ILE:HG21	16:AQ:109:PRO:CD	2.14	0.66
1:AB:28:C:OP1	16:AQ:42:HIS:CE1	2.49	0.66
21:AV:149:ALA:HA	21:AV:152:ILE:HD11	1.77	0.66
34:BA:1180:A:H2'	34:BA:1181:G:H5'	1.77	0.66
34:BA:1061:G:C2	34:BA:1197:G:C2	2.84	0.66
34:BA:1239:A:H4'	34:BA:1240:U:C5'	2.21	0.66
34:BA:928:G:O2'	34:BA:1533:C:N4	2.29	0.66
34:BA:189:G:H2'	34:BA:190:C:C5	2.31	0.66
34:BA:476:G:H21	34:BA:477:G:H1'	1.61	0.66
34:BA:533:A:N7	34:BA:536:C:N4	2.44	0.66
34:BA:5:U:C4	39:BG:86:LYS:CE	2.71	0.66
34:BA:665:A:C2	34:BA:732:C:C4	2.84	0.66
34:BA:668:G:H2'	34:BA:669:U:H6	1.60	0.66
34:BA:981:U:O5'	34:BA:981:U:H6	1.79	0.66
35:BB:59:U:O2	35:BB:60:C:O2	2.13	0.66
35:BB:65:G:H2'	35:BB:66:A:C8	2.30	0.66
37:BE:164:VAL:HG12	37:BE:186:ALA:HB2	1.77	0.66
37:BE:187:LEU:HB2	37:BE:201:ILE:HG21	1.77	0.66
39:BG:9:CYS:SG	39:BG:31:CYS:CA	2.84	0.66
40:BH:59:GLY:C	40:BH:63:ARG:NH2	2.49	0.66
34:BA:673:G:C5'	41:BI:87:ARG:NE	2.58	0.66
43:BK:67:PRO:CD	43:BK:76:PRO:HB3	2.20	0.66
46:BN:12:ARG:HH12	46:BN:40:ILE:HA	1.58	0.66
50:BR:71:GLN:O	50:BR:75:PRO:HD3	1.96	0.66
51:BS:15:PRO:HB2	51:BS:17:TYR:HE1	1.60	0.66
54:BV:10:PHE:O	54:BV:11:VAL:HG23	1.96	0.66
10:AK:104:ALA:HB1	10:AK:105:GLN:HE22	1.60	0.66
24:A0:61:HIS:C	24:A0:64:ARG:HH11	1.98	0.66
25:A1:107:LYS:O	25:A1:110:VAL:HB	1.95	0.66
26:A2:67:LYS:HZ1	26:A2:94:LYS:HD2	1.61	0.66
27:A3:41:ARG:O	27:A3:67:VAL:CG2	2.44	0.66
2:AA:54:G:C1'	31:A7:35:ARG:NH2	2.59	0.66
32:A8:60:LEU:HD23	32:A8:60:LEU:C	2.16	0.66
32:A8:7:HIS:O	32:A8:10:ALA:HB3	1.96	0.66
2:AA:111:A:H4'	22:AW:62:GLU:OE2	1.96	0.66
2:AA:1133:U:O2'	2:AA:1134:G:H5''	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1144:G:H2'	2:AA:1145:C:C6	2.31	0.66
2:AA:1324:G:C4'	2:AA:1616:A:H62	2.08	0.66
2:AA:1632:A:O5'	2:AA:1632:A:C8	2.49	0.66
2:AA:1827:C:O2	2:AA:1827:C:C2'	2.44	0.66
2:AA:2056:G:OP2	2:AA:2504:U:OP2	2.13	0.66
2:AA:2110:G:N1	2:AA:2179:C:C2	2.63	0.66
2:AA:2231:C:C2	2:AA:2232:U:C5	2.84	0.66
2:AA:2234:G:O2'	2:AA:2235:G:H5'	1.95	0.66
2:AA:2605:U:O2'	2:AA:2606:C:C5'	2.43	0.66
2:AA:2655:G:N3	2:AA:2655:G:C2'	2.57	0.66
2:AA:2749:A:O4'	8:AH:62:ALA:CA	2.43	0.66
2:AA:2721:A:C5	2:AA:2873:A:N6	2.64	0.66
2:AA:319:C:N4	2:AA:323:G:H1	1.93	0.66
2:AA:324:A:N6	2:AA:339:U:O2	2.29	0.66
2:AA:347:A:C8	2:AA:347:A:C3'	2.76	0.66
2:AA:360:G:C2'	2:AA:361:G:O4'	2.44	0.66
2:AA:825:C:O2'	2:AA:826:U:H5'	1.96	0.66
2:AA:970:C:H2'	2:AA:970:C:O2	1.95	0.66
4:AD:208:GLY:O	4:AD:211:HIS:CE1	2.48	0.66
5:AE:79:ARG:NH1	5:AE:104:PHE:O	2.27	0.66
6:AF:109:LEU:O	6:AF:112:ARG:CB	2.38	0.66
6:AF:16:VAL:HG12	6:AF:17:ASP:N	2.09	0.66
8:AH:86:LEU:HA	8:AH:148:ARG:HH21	1.57	0.66
11:AL:9:ILE:HG12	11:AL:31:HIS:CD2	2.31	0.66
12:AM:15:ARG:NH1	12:AM:43:ARG:CZ	2.59	0.66
13:AN:17:ARG:HE	13:AN:47:THR:HA	1.60	0.66
15:AP:56:ILE:CG2	15:AP:61:LEU:HD13	2.22	0.66
18:AS:8:ARG:CG	18:AS:9:TYR:H	1.92	0.66
19:AT:34:LYS:HZ2	19:AT:52:VAL:HG12	1.60	0.66
20:AU:101:LEU:HD22	20:AU:103:LEU:HD11	1.77	0.66
20:AU:103:LEU:C	20:AU:105:ASP:N	2.47	0.66
20:AU:101:LEU:HD21	20:AU:112:LEU:HG	1.78	0.66
20:AU:18:GLU:C	20:AU:21:LYS:HZ3	1.99	0.66
21:AV:64:ALA:CB	21:AV:85:MET:HA	2.26	0.66
22:AW:43:PRO:HD2	22:AW:46:ILE:HG12	1.77	0.66
34:BA:1104:G:HO2'	34:BA:1105:A:H5'	1.60	0.66
34:BA:1169:A:N6	34:BA:1171:G:C2	2.63	0.66
34:BA:1193:G:C8	34:BA:1193:G:H3'	2.30	0.66
34:BA:1209:C:H2'	34:BA:1210:C:C5'	2.26	0.66
34:BA:1242:C:O2	34:BA:1302:U:O2	2.14	0.66
34:BA:1431:C:H2'	34:BA:1432:G:O4'	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:197:A:O2'	34:BA:198:G:C8	2.49	0.66
34:BA:198:G:O6	34:BA:220:G:C4	2.49	0.66
34:BA:112:G:N2	34:BA:330:C:N4	2.43	0.66
34:BA:583:A:C2'	34:BA:584:G:O4'	2.44	0.66
34:BA:629:G:H2'	34:BA:630:G:H8	1.61	0.66
34:BA:676:A:H2'	34:BA:677:U:C6	2.30	0.66
34:BA:825:G:N2	34:BA:875:C:N3	2.39	0.66
34:BA:986:A:H4'	54:BV:55:LYS:CG	2.23	0.66
35:BC:35:A:C8	35:BC:35:A:H5'	2.25	0.66
35:BC:30:G:H1	35:BC:40:C:H42	0.75	0.66
37:BE:155:LEU:HB2	37:BE:159:PRO:HG3	1.78	0.66
37:BE:213:LEU:HD23	37:BE:213:LEU:C	2.16	0.66
39:BG:205:GLU:OE2	40:BH:100:VAL:HB	1.96	0.66
40:BH:74:GLY:C	40:BH:115:VAL:HG12	2.16	0.66
40:BH:79:GLU:O	40:BH:80:ILE:HG23	1.96	0.66
43:BK:89:PRO:HA	43:BK:92:ARG:CZ	2.25	0.66
44:BL:23:ASN:CG	44:BL:24:GLY:N	2.47	0.66
47:BO:102:ARG:HE	47:BO:109:GLY:C	1.99	0.66
34:BA:1307:U:C5'	48:BP:109:THR:HG21	2.25	0.66
44:BL:111:ARG:HD2	49:BQ:61:TRP:HE1	1.60	0.66
50:BR:35:ARG:NH1	50:BR:59:MET:HG3	2.08	0.66
51:BS:21:VAL:HG23	51:BS:34:GLU:O	1.96	0.66
54:BV:40:ILE:HG21	54:BV:62:ILE:HD13	1.77	0.66
21:AV:25:ASN:O	21:AV:26:LYS:C	2.34	0.66
54:BV:80:TYR:HD1	54:BV:81:ARG:H	1.43	0.66
2:AA:1620:G:O2'	2:AA:1621:U:H5'	1.96	0.66
25:A1:13:ARG:O	25:A1:16:LYS:CB	2.41	0.66
25:A1:55:ARG:O	25:A1:58:ARG:N	2.28	0.66
32:A8:23:MET:CG	32:A8:46:LYS:HB3	2.26	0.66
32:A8:54:GLU:O	32:A8:55:TRP:C	2.34	0.66
33:A9:11:CYS:HB3	33:A9:32:HIS:HE1	1.57	0.66
2:AA:1035:U:C2	2:AA:1036:G:N7	2.64	0.66
2:AA:1021:A:H2	2:AA:1122:G:H5''	1.60	0.66
2:AA:1582:C:C3'	2:AA:1583:A:H4'	2.26	0.66
2:AA:1779:U:O4	2:AA:1784:A:C4	2.49	0.66
2:AA:1792:G:N2	2:AA:1827:C:C2	2.61	0.66
2:AA:1794:U:H5'	2:AA:1900:A:N6	2.10	0.66
2:AA:1827:C:H1'	2:AA:1970:A:H2	1.61	0.66
2:AA:1861:G:H5'	3:AC:205:LYS:HD3	1.77	0.66
2:AA:1919:A:O2'	2:AA:1920:C:H5'	1.95	0.66
2:AA:1955:U:O2'	2:AA:1956:U:P	2.54	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2102:U:N3	2:AA:2103:C:N4	2.44	0.66
2:AA:2107:C:H6	2:AA:2107:C:O5'	1.79	0.66
2:AA:2210:G:N2	4:AD:69:ASP:OD2	2.28	0.66
2:AA:2364:C:H5''	27:A3:38:VAL:HG13	1.77	0.66
2:AA:2680:C:H5'	5:AE:302:GLY:HA2	1.78	0.66
2:AA:2731:G:H4'	5:AE:264:LEU:HD12	1.78	0.66
2:AA:2742:C:H5''	33:A9:35:ARG:CZ	2.26	0.66
2:AA:2766:G:C2	2:AA:2767:C:C6	2.84	0.66
2:AA:2849:U:H4'	2:AA:2850:A:H5'	1.77	0.66
2:AA:530:G:O2'	2:AA:531:C:H4'	1.95	0.66
2:AA:638:G:N7	2:AA:639:U:C2	2.64	0.66
2:AA:719:C:O2'	2:AA:720:C:H5'	1.96	0.66
1:AB:82:G:C4	1:AB:83:G:C8	2.84	0.66
3:AC:143:GLY:O	3:AC:144:THR:HG23	1.96	0.66
3:AC:166:ASP:OD2	3:AC:170:ALA:HB3	1.96	0.66
5:AE:270:ASP:OD2	5:AE:270:ASP:N	2.28	0.66
8:AH:101:LYS:CG	8:AH:115:GLU:HB2	2.26	0.66
8:AH:86:LEU:HD13	8:AH:86:LEU:C	2.16	0.66
2:AA:1084:A:O4'	9:AI:38:ALA:HB3	1.94	0.66
2:AA:1084:A:P	9:AI:40:ALA:N	2.64	0.66
9:AJ:102:ILE:CD1	9:AJ:118:LEU:HD22	2.25	0.66
11:AL:9:ILE:CD1	11:AL:31:HIS:HB3	2.25	0.66
12:AM:92:GLN:HG2	12:AM:93:ARG:N	2.11	0.66
2:AA:2674:G:H4'	13:AN:30:ARG:HG2	1.78	0.66
14:AO:62:ALA:HB3	14:AO:105:TYR:O	1.96	0.66
15:AP:67:ALA:O	15:AP:70:ARG:HB2	1.95	0.66
2:AA:2378:A:N3	16:AQ:26:LEU:CD2	2.59	0.66
19:AT:17:ASP:HA	19:AT:20:PHE:HE1	1.59	0.66
22:AW:55:ARG:HA	22:AW:58:THR:OG1	1.96	0.66
22:AW:6:GLN:O	22:AW:9:ARG:HB3	1.95	0.66
23:AX:19:GLN:H	23:AX:19:GLN:CD	1.98	0.66
36:B1:60:A:C2	36:B1:61:U:C5	2.84	0.66
34:BA:1424:C:N3	34:BA:1476:G:N2	2.37	0.66
34:BA:175:C:O2'	34:BA:176:C:H5'	1.95	0.66
34:BA:311:C:HO2'	34:BA:312:C:H5'	1.59	0.66
34:BA:438:G:N2	34:BA:496:A:O5'	2.28	0.66
34:BA:673:G:HO2'	34:BA:674:G:C1'	2.08	0.66
34:BA:809:G:C2'	34:BA:810:C:H5'	2.25	0.66
34:BA:909:A:O5'	34:BA:909:A:H8	1.79	0.66
35:BB:56:C:C6	35:BB:56:C:C4'	2.78	0.66
37:BE:91:PRO:CG	37:BE:155:LEU:N	2.52	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:80:ILE:HD12	37:BE:211:ILE:HG21	1.78	0.66
39:BG:102:ASP:HA	39:BG:105:VAL:CG2	2.25	0.66
40:BH:51:VAL:HB	40:BH:52:PRO:CD	2.25	0.66
42:BJ:27:ILE:HG21	42:BJ:40:ALA:HA	1.77	0.66
43:BK:112:LEU:HG	43:BK:133:LEU:HD23	1.77	0.66
43:BK:18:ARG:CA	43:BK:18:ARG:NH1	2.54	0.66
43:BK:80:ILE:CD1	43:BK:80:ILE:H	1.88	0.66
44:BL:7:THR:H	44:BL:83:ARG:HG2	1.61	0.66
45:BM:49:VAL:O	45:BM:60:ARG:HA	1.96	0.66
48:BP:14:ARG:H	48:BP:44:ARG:NE	1.93	0.66
48:BP:71:ARG:HA	48:BP:74:VAL:HG23	1.77	0.66
34:BA:751:U:O4'	50:BR:23:GLY:O	2.14	0.66
50:BR:15:PHE:CD2	50:BR:30:ALA:HB2	2.31	0.66
51:BS:74:LEU:O	51:BS:79:VAL:HG23	1.96	0.66
54:BV:47:HIS:H	54:BV:62:ILE:CG2	2.08	0.66
35:BB:29:A:O2'	35:BB:30:G:H5'	1.95	0.66
21:AV:10:PRO:HG2	21:AV:11:LYS:N	2.09	0.66
6:AF:148:VAL:O	6:AF:148:VAL:CG1	2.44	0.66
15:AP:95:GLU:CD	15:AP:95:GLU:N	2.49	0.66
24:A0:24:GLN:O	24:A0:25:ALA:C	2.35	0.66
25:A1:21:ALA:HA	25:A1:24:PHE:HE2	1.61	0.66
28:A4:52:THR:O	28:A4:53:GLU:HB2	1.96	0.66
31:A7:30:ILE:CG2	31:A7:33:ARG:HD2	2.23	0.66
31:A7:4:THR:CA	31:A7:6:GLN:HE22	2.08	0.66
2:AA:1034:G:C5'	33:A9:18:ARG:CZ	2.73	0.66
2:AA:1085:A:P	9:AI:35:ALA:H	2.18	0.66
2:AA:1413:G:C2'	2:AA:1414:G:H5'	2.26	0.66
2:AA:1491:G:OP1	2:AA:1491:G:H3'	1.96	0.66
2:AA:1414:G:N2	2:AA:1588:C:C2	2.59	0.66
2:AA:1630:G:H1	2:AA:1636:C:H42	1.43	0.66
2:AA:1665:A:HO2'	2:AA:1666:G:H5'	1.60	0.66
2:AA:162:U:H5'	2:AA:171:G:H1'	1.76	0.66
2:AA:1775:U:HO2'	2:AA:1776:G:H5'	1.59	0.66
2:AA:1815:A:C2	2:AA:1817:G:C6	2.84	0.66
2:AA:1905:C:H2'	2:AA:1930:G:C5	2.30	0.66
2:AA:1927:A:C6	2:AA:1928:A:C2	2.84	0.66
2:AA:2299:G:O2'	2:AA:2300:G:H5'	1.96	0.66
2:AA:243:U:C2	2:AA:244:A:C8	2.83	0.66
2:AA:270:A:H2'	2:AA:270(A):A:O4'	1.95	0.66
2:AA:2761:G:C2'	2:AA:2762:G:H5'	2.26	0.66
2:AA:2793:G:C6	2:AA:2794:C:N4	2.64	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:351:G:H2'	2:AA:352:G:C8	2.31	0.66
2:AA:467:G:H2'	2:AA:468:G:C5'	2.26	0.66
2:AA:58:G:N1	2:AA:69:C:N4	2.44	0.66
2:AA:623:G:H2'	2:AA:624:C:C6	2.18	0.66
1:AB:100:G:O2'	1:AB:101:A:O4'	2.13	0.66
1:AB:71:C:N4	1:AB:105:G:N1	2.10	0.66
1:AB:47:C:H2'	1:AB:48:A:H5'	1.76	0.66
5:AE:199:ALA:HA	5:AE:314:ALA:HA	1.78	0.66
6:AF:1:MET:C	6:AF:18:LEU:HG	2.15	0.66
6:AF:93:LYS:HB3	6:AF:95:GLU:O	1.96	0.66
8:AH:138:GLN:HG2	8:AH:142:GLU:OE1	1.95	0.66
9:AI:3:ILE:HD13	11:AL:117:ASN:CG	2.16	0.66
9:AI:48:ALA:O	9:AI:51:ALA:HB3	1.95	0.66
11:AL:19:THR:HG23	11:AL:39:CYS:CB	2.25	0.66
14:AO:66:VAL:H	14:AO:67:ARG:NH2	1.94	0.66
16:AQ:108:SER:O	16:AQ:109:PRO:C	2.33	0.66
16:AQ:108:SER:O	16:AQ:110:THR:N	2.29	0.66
19:AT:10:VAL:CG1	19:AT:15:MET:HG2	2.25	0.66
21:AV:108:VAL:HG12	21:AV:108:VAL:O	1.95	0.66
21:AV:107:GLU:HG3	21:AV:113:VAL:HG13	1.78	0.66
21:AV:148:THR:HB	21:AV:166:LEU:O	1.96	0.66
21:AV:172:LEU:HD23	21:AV:173:PRO:O	1.96	0.66
21:AV:19:ILE:CB	21:AV:39:PHE:HE1	2.09	0.66
34:BA:1084:G:O3'	34:BA:1086:U:C5	2.48	0.66
34:BA:1250:A:OP1	44:BL:66:ARG:HD2	1.96	0.66
34:BA:131:C:O2'	34:BA:262:A:H1'	1.95	0.66
34:BA:1346:A:H8	34:BA:1348:U:C2	2.14	0.66
34:BA:190(A):C:C2	34:BA:190(I):G:N2	2.64	0.66
34:BA:364:A:C2	34:BA:365:U:O4	2.49	0.66
34:BA:437:U:H5''	39:BG:155:LEU:HD13	1.77	0.66
34:BA:42:G:H2'	34:BA:43:C:H6	1.57	0.66
34:BA:522:C:H41	34:BA:523:A:N6	1.93	0.66
34:BA:607:A:H2'	34:BA:608:A:C5'	2.25	0.66
34:BA:625:G:C6	34:BA:626:U:C4	2.84	0.66
35:BB:66:A:C6	35:BB:67:A:N6	2.64	0.66
37:BE:62:ALA:HB1	37:BE:225:ALA:HB3	1.77	0.66
38:BF:10:PHE:CE1	38:BF:178:LEU:HD22	2.31	0.66
38:BF:157:ILE:O	38:BF:159:GLY:N	2.29	0.66
38:BF:189:ALA:HB3	38:BF:196:LEU:HG	1.78	0.66
39:BG:120:LEU:HG	39:BG:125:HIS:HB2	1.78	0.66
39:BG:25:ARG:HH21	39:BG:30:LYS:CD	2.08	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BH:76:ILE:O	40:BH:93:PRO:HB3	1.96	0.66
43:BK:82:HIS:HB3	43:BK:138:TRP:NE1	2.09	0.66
43:BK:18:ARG:NH2	43:BK:78:GLN:HG3	2.10	0.66
46:BN:82:VAL:N	46:BN:107:SER:O	2.29	0.66
47:BO:43:VAL:HG12	47:BO:44:THR:O	1.96	0.66
48:BP:32:GLU:HB3	48:BP:64:TRP:HZ3	1.59	0.66
51:BS:6:LEU:O	51:BS:6:LEU:HD22	1.96	0.66
53:BU:39:VAL:HG12	53:BU:40:LEU:HD23	1.78	0.66
54:BV:12:ASP:O	54:BV:15:LEU:HG	1.96	0.66
2:AA:1283:G:N2	2:AA:1285:G:C2'	2.59	0.66
2:AA:2899:G:O2'	2:AA:2900:A:O5'	2.12	0.66
24:A0:34:ILE:HG22	24:A0:35:THR:N	2.11	0.65
24:A0:44:LEU:CD1	24:A0:48:VAL:HG21	2.26	0.65
25:A1:55:ARG:HA	25:A1:58:ARG:CD	2.25	0.65
2:AA:2331:G:O2'	27:A3:70:ILE:CG2	2.43	0.65
2:AA:1000:A:H2'	2:AA:1001:A:O4'	1.96	0.65
2:AA:1022:G:C2	2:AA:1140:C:C6	2.83	0.65
2:AA:1068:G:N1	2:AA:1073:A:C2	2.64	0.65
2:AA:111:A:C2'	2:AA:112:U:H5''	2.26	0.65
2:AA:1327:C:C3'	2:AA:1328:G:H8	2.08	0.65
2:AA:1309:G:N2	2:AA:1611:C:H5'	2.00	0.65
2:AA:163:U:H5''	2:AA:164:U:OP2	1.96	0.65
2:AA:1669:A:H2'	2:AA:1670:C:H5''	1.76	0.65
2:AA:1770:G:H2'	2:AA:1771:C:C6	2.28	0.65
2:AA:1796:U:HO2'	2:AA:1797:C:H6	1.42	0.65
2:AA:1935:G:C2	2:AA:1962:C:C6	2.84	0.65
2:AA:1995:U:C6	2:AA:1996:C:C5	2.84	0.65
2:AA:2020:A:N6	2:AA:2022:U:N3	2.45	0.65
2:AA:2075:U:C6	2:AA:2597:G:N2	2.63	0.65
2:AA:2123:G:C6	2:AA:2175:C:C2	2.84	0.65
2:AA:2093:G:H1'	2:AA:2198:A:N1	2.10	0.65
2:AA:2331:G:C4'	27:A3:70:ILE:HG13	2.26	0.65
2:AA:2392:A:C2	2:AA:2429:G:C4	2.83	0.65
2:AA:2768:C:C2	2:AA:2769:C:C6	2.84	0.65
2:AA:417:C:H2'	2:AA:418:G:C8	2.29	0.65
2:AA:524:U:H4'	2:AA:554:U:H4'	1.78	0.65
2:AA:558:G:OP1	12:AM:92:GLN:N	2.29	0.65
2:AA:563:G:H2'	2:AA:563:G:N3	2.11	0.65
2:AA:801:G:O2'	2:AA:802:A:P	2.54	0.65
2:AA:919:G:N2	2:AA:2268:A:C5'	2.51	0.65
1:AB:76:G:C8	1:AB:77:U:O4	2.49	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:146:LYS:O	4:AD:148:GLY:N	2.29	0.65
5:AE:62:ARG:O	5:AE:63:GLU:OE2	2.13	0.65
6:AF:106:GLU:O	6:AF:109:LEU:HB2	1.96	0.65
6:AF:55:ARG:CA	6:AF:79:ARG:NE	2.59	0.65
7:AG:141:VAL:HA	7:AG:144:ARG:HH11	1.61	0.65
7:AG:22:VAL:CB	7:AG:24:HIS:NE2	2.56	0.65
9:AJ:77:VAL:HG13	9:AJ:102:ILE:HG13	1.78	0.65
10:AK:12:LYS:NZ	10:AK:14:LYS:HE3	2.11	0.65
11:AL:79:LEU:HD13	11:AL:137:ILE:HD13	1.78	0.65
15:AP:123:ILE:HG22	15:AP:124:ALA:N	2.09	0.65
20:AU:19:ARG:CB	20:AU:19:ARG:HH11	2.08	0.65
21:AV:145:ASP:O	21:AV:171:VAL:HG22	1.96	0.65
23:AX:23:LEU:N	23:AX:23:LEU:HD23	2.11	0.65
34:BA:1222:G:C2	34:BA:1223:C:N3	2.63	0.65
34:BA:1534:A:OP1	34:BA:1535:C:C4	2.49	0.65
34:BA:20:U:O4'	34:BA:572:A:N1	2.29	0.65
34:BA:41:G:H2'	34:BA:42:G:C8	2.29	0.65
34:BA:522:C:H42	34:BA:528:C:H42	1.42	0.65
34:BA:754:C:P	50:BR:72:ARG:NH1	2.69	0.65
34:BA:841:U:C2'	34:BA:848:C:OP1	2.43	0.65
34:BA:968:A:OP1	34:BA:968:A:H8	1.79	0.65
37:BE:164:VAL:HG12	37:BE:186:ALA:CB	2.26	0.65
37:BE:176:GLU:O	37:BE:180:LEU:CG	2.30	0.65
37:BE:19:HIS:CE1	37:BE:206:ASP:HB2	2.31	0.65
38:BF:10:PHE:CG	38:BF:10:PHE:O	2.49	0.65
38:BF:59:ARG:HH21	38:BF:64:VAL:HG13	1.59	0.65
34:BA:16:A:H1'	40:BH:17:ALA:HB3	1.78	0.65
43:BK:84:ARG:HD3	43:BK:136:GLU:OE2	1.95	0.65
43:BK:45:ILE:HG13	43:BK:47:GLY:N	2.09	0.65
44:BL:32:ASP:HB3	44:BL:35:GLU:OE2	1.96	0.65
48:BP:14:ARG:NE	48:BP:42:ALA:HA	2.11	0.65
51:BS:18:ARG:NH1	51:BS:32:TYR:OH	2.29	0.65
41:BI:89:MET:HB3	53:BU:76:LEU:CD1	2.25	0.65
36:B1:36:A:H2'	36:B1:37:C:H4'	1.78	0.65
36:B1:23:U:H3	36:B1:31:G:H1	0.75	0.65
2:AA:2246:G:N2	2:AA:2247:A:C4	2.64	0.65
27:A3:4:LYS:NZ	27:A3:11:LYS:NZ	2.44	0.65
25:A1:14:HIS:O	25:A1:18:LEU:HD23	1.96	0.65
26:A2:58:ALA:O	26:A2:100:GLY:O	2.14	0.65
26:A2:75:LYS:CA	26:A2:75:LYS:HE2	2.22	0.65
30:A6:14:SER:O	30:A6:22:TYR:HB3	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2421:G:OP1	30:A6:4:ASP:OD1	2.14	0.65
33:A9:20:HIS:C	33:A9:22:ARG:N	2.50	0.65
2:AA:1005:C:H2'	2:AA:1006:C:C6	2.30	0.65
2:AA:1299:G:N2	2:AA:1642:G:C6	2.64	0.65
2:AA:1397:U:O2	2:AA:1397:U:H2'	1.96	0.65
2:AA:1400:G:H2'	2:AA:1401:G:H8	1.57	0.65
2:AA:1417:C:H2'	2:AA:1418:G:O5'	1.96	0.65
2:AA:1547:C:O2'	2:AA:1548:C:H5'	1.95	0.65
2:AA:1550:C:H6	2:AA:1550:C:O5'	1.79	0.65
2:AA:1785:A:C2'	2:AA:1786:A:H5'	2.26	0.65
2:AA:1795:C:C2'	2:AA:1796:U:C5'	2.54	0.65
2:AA:2036:C:H6	2:AA:2036:C:H5'	1.61	0.65
2:AA:2088:G:N2	2:AA:2232:U:C2	2.64	0.65
2:AA:2435:A:C2'	2:AA:2436:G:O5'	2.45	0.65
2:AA:2497:A:C2'	2:AA:2498:C:OP2	2.44	0.65
2:AA:2678:C:O2'	2:AA:2679:A:H5'	1.96	0.65
2:AA:2785:C:H2'	2:AA:2786:U:C5	2.32	0.65
2:AA:2867:G:H5'	2:AA:2868:A:C5'	2.27	0.65
2:AA:30:G:C5	2:AA:31:C:C5	2.84	0.65
2:AA:373:U:H4'	2:AA:374:A:N7	2.11	0.65
2:AA:450:G:OP2	6:AF:85:LYS:O	2.13	0.65
2:AA:611:C:HO2'	2:AA:616:A:H2	1.37	0.65
2:AA:684:G:C2	2:AA:775:G:C5	2.84	0.65
2:AA:813:U:O2'	2:AA:814:C:H5'	1.97	0.65
2:AA:951:C:H2'	2:AA:952:G:H8	1.61	0.65
2:AA:973:A:C6	26:A2:81:ARG:N	2.64	0.65
1:AB:71:C:H2'	1:AB:72:G:H8	1.61	0.65
3:AC:103:ILE:HD13	3:AC:110:PHE:HE2	1.62	0.65
3:AC:83:ILE:HG23	3:AC:94:VAL:CG1	2.25	0.65
4:AD:232:VAL:CG2	4:AD:233:ASP:H	2.09	0.65
5:AE:198:TYR:CD2	5:AE:265:ASN:C	2.69	0.65
6:AF:215:ALA:CA	6:AF:239:ALA:HA	2.26	0.65
6:AF:193:LEU:HD12	6:AF:233:THR:CG2	2.27	0.65
7:AG:19:GLU:OE2	7:AG:135:VAL:CG1	2.39	0.65
9:AI:15:VAL:HG22	9:AI:48:ALA:CB	2.27	0.65
12:AM:72:PRO:HB2	12:AM:77:GLY:HA3	1.79	0.65
16:AQ:42:HIS:CD2	16:AQ:44:ARG:HH21	2.14	0.65
16:AQ:32:PRO:HB3	16:AQ:49:THR:OG1	1.95	0.65
18:AS:50:VAL:HG21	18:AS:103:ILE:HG21	1.77	0.65
19:AT:30:ASP:HA	19:AT:62:LYS:CD	2.21	0.65
19:AT:3:ASP:O	19:AT:4:VAL:HG22	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AW:9:ARG:CZ	22:AW:59:ILE:HG13	2.26	0.65
34:BA:1077:G:N2	34:BA:1079:G:H2'	2.12	0.65
34:BA:1154:G:H2'	34:BA:1155:G:C8	2.29	0.65
34:BA:1280:A:C1'	45:BM:41:PRO:HG3	2.26	0.65
34:BA:1354:C:H2'	34:BA:1355:G:C8	2.32	0.65
34:BA:1489:G:C3'	34:BA:1490:C:H5''	2.22	0.65
34:BA:344:A:O2'	34:BA:345:C:P	2.54	0.65
34:BA:573:A:N3	34:BA:883:C:O2'	2.27	0.65
34:BA:665:A:C8	34:BA:733:A:N3	2.65	0.65
35:BB:58:A:H4'	35:BB:59:U:OP1	1.97	0.65
39:BG:12:CYS:CB	39:BG:31:CYS:O	2.45	0.65
42:BJ:62:PHE:O	42:BJ:66:VAL:HG23	1.96	0.65
42:BJ:99:LEU:HD23	42:BJ:102:ARG:HD2	1.77	0.65
43:BK:46:LYS:HG3	43:BK:64:LYS:CG	2.25	0.65
43:BK:61:VAL:CG1	43:BK:62:TYR:N	2.57	0.65
48:BP:13:LYS:CA	48:BP:44:ARG:HE	2.02	0.65
34:BA:43:C:H5''	51:BS:12:LYS:HB2	1.78	0.65
54:BV:58:VAL:O	54:BV:58:VAL:HG23	1.96	0.65
55:BW:97:ALA:O	55:BW:99:LEU:HD23	1.96	0.65
35:BB:72:C:O2'	35:BB:73:A:C5'	2.45	0.65
37:BE:10:LEU:O	37:BE:11:LEU:HG	1.96	0.65
36:B1:27:G:H2'	36:B1:28:U:C6	2.31	0.65
38:BF:154:SER:OG	38:BF:197:GLY:N	2.30	0.65
24:A0:90:ARG:NH2	24:A0:117:VAL:HG22	2.03	0.65
25:A1:33:ARG:O	25:A1:36:PHE:N	2.30	0.65
26:A2:62:GLU:O	26:A2:95:ILE:HA	1.97	0.65
28:A4:58:LYS:CG	28:A4:62:ARG:NH2	2.57	0.65
28:A4:5:LEU:HG	28:A4:8:LYS:O	1.97	0.65
29:A5:12:SER:O	29:A5:13:LYS:C	2.34	0.65
32:A8:18:GLY:C	32:A8:20:GLY:N	2.49	0.65
2:AA:1008:C:O2'	2:AA:1009:A:O5'	2.15	0.65
2:AA:1022:G:C6	2:AA:1139:G:C4	2.84	0.65
2:AA:1071:G:OP2	2:AA:1071:G:H8	1.79	0.65
2:AA:1487:G:O2'	2:AA:1488:G:H5'	1.97	0.65
2:AA:1598:C:H5'	19:AT:34:LYS:HB2	1.79	0.65
2:AA:1903:G:N3	2:AA:1904:G:N7	2.44	0.65
2:AA:1927:A:H5''	2:AA:1928:A:P	2.36	0.65
2:AA:1993:U:H4'	5:AE:228:ARG:NE	2.10	0.65
2:AA:199:A:H5'	2:AA:200:U:OP2	1.96	0.65
2:AA:2042:A:O2'	2:AA:2043:C:H5'	1.95	0.65
2:AA:2047:U:O2'	2:AA:2048:G:H5'	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2143:C:O2	2:AA:2148:G:N1	2.27	0.65
2:AA:2181:G:H2'	2:AA:2182:G:C5'	2.26	0.65
2:AA:919:G:H21	2:AA:2268:A:H5''	1.57	0.65
2:AA:2457:U:O4	2:AA:2458:G:C2	2.50	0.65
2:AA:2520:C:C4	2:AA:2567:G:C8	2.83	0.65
2:AA:2544:G:O5'	2:AA:2544:G:H8	1.78	0.65
2:AA:2807:G:C6	2:AA:2892:A:N7	2.64	0.65
2:AA:379:G:H4'	2:AA:2232:U:H5''	1.78	0.65
2:AA:528:A:C2	2:AA:2043:C:C4'	2.76	0.65
2:AA:532:A:OP1	2:AA:532:A:H4'	1.96	0.65
2:AA:612:G:C4'	2:AA:616:A:C6	2.76	0.65
2:AA:71:A:C4'	2:AA:72:U:H3'	2.26	0.65
2:AA:737:C:O2'	2:AA:738:G:H5'	1.95	0.65
1:AB:97:G:C5	1:AB:98:G:C8	2.85	0.65
4:AD:156:ALA:O	4:AD:196:ASN:ND2	2.28	0.65
2:AA:1825:A:C8	4:AD:225:ARG:NH2	2.65	0.65
2:AA:451:C:O3'	6:AF:52:ALA:HB2	1.96	0.65
8:AH:143:LEU:HA	8:AH:146:ASN:HB2	1.76	0.65
2:AA:1058:G:C2'	9:AI:3:ILE:HG13	2.26	0.65
9:AI:77:VAL:HG13	9:AI:102:ILE:HG13	1.77	0.65
9:AJ:76:VAL:CG2	9:AJ:121:ALA:HB2	2.26	0.65
9:AJ:29:PHE:HB2	9:AJ:34:ALA:HB2	1.77	0.65
9:AJ:18:LEU:HD11	9:AJ:44:VAL:HG12	1.77	0.65
10:AK:12:LYS:O	10:AK:14:LYS:N	2.29	0.65
12:AM:104:TYR:CB	12:AM:105:LEU:HD23	2.21	0.65
13:AN:103:ALA:CB	13:AN:105:GLU:HG2	2.26	0.65
15:AP:20:ILE:CG1	15:AP:21:SER:N	2.56	0.65
16:AQ:34:LEU:HD23	16:AQ:100:ALA:CB	2.25	0.65
16:AQ:21:HIS:C	16:AQ:23:ARG:N	2.45	0.65
20:AU:27:LEU:HB3	20:AU:98:VAL:O	1.97	0.65
21:AV:98:VAL:HG22	21:AV:134:LEU:HB3	1.78	0.65
21:AV:40:ASP:O	21:AV:41:ARG:C	2.33	0.65
22:AW:51:LYS:O	22:AW:55:ARG:CD	2.45	0.65
34:BA:1462:G:H2'	34:BA:1463:C:C6	2.31	0.65
34:BA:1498:U:O2'	34:BA:1499:A:H8	1.79	0.65
34:BA:350:G:N2	34:BA:351:G:N2	2.45	0.65
34:BA:522:C:H42	34:BA:528:C:N4	1.94	0.65
34:BA:60:A:H4'	34:BA:61:G:O5'	1.96	0.65
34:BA:687:A:O2'	34:BA:688:G:P	2.54	0.65
34:BA:772:U:C2'	34:BA:773:G:O5'	2.43	0.65
34:BA:819:A:H5''	34:BA:820:U:OP2	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:81:U:C2	34:BA:83:U:OP2	2.49	0.65
34:BA:848:C:O2'	34:BA:849:C:O4'	2.14	0.65
34:BA:872:A:O2'	34:BA:873:A:P	2.55	0.65
34:BA:888:G:OP2	34:BA:889:A:H2'	1.96	0.65
34:BA:950:U:H2'	34:BA:951:G:C5'	2.27	0.65
38:BF:157:ILE:HD12	38:BF:164:ARG:HG3	1.76	0.65
39:BG:25:ARG:HG2	39:BG:28:SER:OG	1.96	0.65
39:BG:18:LYS:HG3	39:BG:33:MET:CG	2.26	0.65
39:BG:61:LYS:CA	39:BG:203:VAL:HG22	2.27	0.65
40:BH:65:ASN:O	40:BH:65:ASN:CG	2.33	0.65
41:BI:53:ALA:CB	41:BI:55:ASP:OD2	2.44	0.65
46:BN:65:ALA:HB1	46:BN:98:LEU:HD21	1.77	0.65
34:BA:970:C:N4	48:BP:126:LYS:NZ	2.45	0.65
49:BQ:40:CYS:C	49:BQ:42:ILE:N	2.46	0.65
55:BW:10:LEU:HD12	55:BW:11:SER:H	1.60	0.65
55:BW:46:GLU:HB2	55:BW:48:LYS:HE2	1.78	0.65
10:AK:95:SER:OG	10:AK:115:ILE:HD12	1.95	0.65
8:AH:167:LEU:HD12	8:AH:169:ARG:HH22	1.61	0.65
2:AA:431:U:C3'	2:AA:431:U:C6	2.77	0.65
4:AD:123:ILE:H	4:AD:123:ILE:CD1	2.09	0.65
4:AD:123:ILE:N	4:AD:123:ILE:HD12	2.09	0.65
24:A0:48:VAL:HA	24:A0:51:LEU:HD12	1.78	0.65
25:A1:69:ALA:CA	25:A1:79:PHE:CZ	2.79	0.65
26:A2:50:ASP:CG	26:A2:53:LYS:HG3	2.16	0.65
26:A2:5:ILE:HD13	26:A2:12:TYR:CZ	2.32	0.65
27:A3:39:ARG:O	27:A3:40:GLN:O	2.15	0.65
32:A8:38:GLY:O	32:A8:41:ILE:N	2.28	0.65
32:A8:52:LYS:C	32:A8:54:GLU:N	2.48	0.65
33:A9:4:ARG:HA	33:A9:36:GLN:HA	1.76	0.65
2:AA:1272:A:C5	2:AA:1618:A:H1'	2.31	0.65
2:AA:138:G:H5''	19:AT:43:GLU:CG	2.20	0.65
2:AA:137(A):G:C6	2:AA:139:G:C2	2.84	0.65
2:AA:142(A):A:OP1	2:AA:1143:A:OP2	2.15	0.65
2:AA:1479:G:C2	2:AA:1514:U:O2	2.49	0.65
2:AA:1640:C:H2'	2:AA:1641:A:H8	1.62	0.65
2:AA:1649:G:C2	2:AA:1650:G:C8	2.85	0.65
2:AA:1697:G:C3'	2:AA:1698:A:H5'	2.27	0.65
2:AA:1704:G:C2	2:AA:1705:G:H1'	2.32	0.65
2:AA:1935:G:N9	2:AA:1962:C:N4	2.45	0.65
2:AA:2113:U:OP2	2:AA:2117:A:H5''	1.96	0.65
2:AA:2150:U:H2'	2:AA:2151:G:N7	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:215:G:C4'	2:AA:216:A:H4'	2.27	0.65
2:AA:2264:C:N3	2:AA:2276:G:N2	2.37	0.65
2:AA:2275:C:O2'	15:AP:103:ALA:HA	1.96	0.65
2:AA:2287:A:C2	2:AA:2289:G:H1'	2.31	0.65
2:AA:2350:C:H2'	2:AA:2351:G:H8	1.62	0.65
2:AA:2378:A:H1'	16:AQ:101:VAL:HG21	1.77	0.65
2:AA:2432:A:N1	2:AA:2433:A:C2	2.64	0.65
2:AA:251:A:C2'	2:AA:252:G:O5'	2.43	0.65
2:AA:2522:U:O4	2:AA:2541:A:N1	2.30	0.65
2:AA:2740:A:H62	2:AA:2741:A:N6	1.93	0.65
2:AA:2779:U:H5'	2:AA:2781:A:C8	2.32	0.65
2:AA:2810:A:C2	2:AA:2892:A:C2	2.84	0.65
2:AA:2868:A:H2'	2:AA:2869:G:H8	1.61	0.65
2:AA:303:U:C2	2:AA:304:G:C8	2.84	0.65
2:AA:30:G:O2'	2:AA:31:C:H5'	1.97	0.65
2:AA:300:A:H2	2:AA:333:G:N3	1.94	0.65
2:AA:537:C:H2'	2:AA:539:G:C8	2.32	0.65
2:AA:654:A:N3	2:AA:654:A:C2'	2.57	0.65
2:AA:659:C:H2'	2:AA:660:G:H8	1.62	0.65
2:AA:67:U:O5'	2:AA:67:U:H6	1.78	0.65
1:AB:61:G:H2'	1:AB:62:C:C6	2.31	0.65
3:AC:28:LEU:HD12	3:AC:31:GLU:HB2	1.78	0.65
4:AD:174:ARG:NH1	4:AD:174:ARG:HB2	2.12	0.65
6:AF:28:SER:HA	6:AF:31:ILE:HG13	1.78	0.65
8:AH:41:THR:HB	8:AH:52:THR:CB	2.26	0.65
9:AI:73:VAL:HA	9:AI:121:ALA:CB	2.24	0.65
9:AI:38:ALA:O	9:AI:41:ALA:HB3	1.97	0.65
9:AI:71:ILE:HG22	9:AI:75:LYS:CE	2.27	0.65
10:AK:21:VAL:CG1	10:AK:26:ALA:HB2	2.27	0.65
11:AL:15:ALA:HB1	11:AL:46:THR:HB	1.77	0.65
12:AM:54:VAL:CG2	12:AM:135:ILE:HD12	2.25	0.65
2:AA:1022:G:C6	12:AM:47:THR:HG21	2.31	0.65
2:AA:558:G:OP2	12:AM:91:LYS:HB3	1.97	0.65
13:AN:104:ARG:NE	13:AN:121:VAL:HG12	2.11	0.65
14:AO:66:VAL:HB	14:AO:110:GLY:O	1.96	0.65
15:AP:94:ARG:HH12	15:AP:104:PRO:HB2	1.61	0.65
19:AT:5:ILE:HD11	19:AT:41:VAL:N	2.11	0.65
20:AU:101:LEU:HD21	20:AU:112:LEU:CD1	2.26	0.65
20:AU:31:LEU:HA	20:AU:34:GLU:CD	2.16	0.65
22:AW:43:PRO:CB	22:AW:45:ARG:HB3	2.26	0.65
23:AX:30:ARG:NH2	23:AX:33:GLN:HB2	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AX:9:VAL:O	23:AX:53:LEU:O	2.13	0.65
34:BA:1326:C:N3	34:BA:1327:C:C4	2.64	0.65
34:BA:332:G:H2'	34:BA:333:G:H8	1.62	0.65
34:BA:389:A:C6	34:BA:390:C:H1'	2.31	0.65
34:BA:510:A:O5'	34:BA:510:A:C8	2.47	0.65
34:BA:499:A:C2	34:BA:546:G:N3	2.64	0.65
34:BA:883:C:H5'	34:BA:884:U:OP2	1.97	0.65
35:BB:19:G:H1'	35:BB:57:G:H21	1.61	0.65
34:BA:518:C:N4	35:BB:34:G:N2	2.44	0.65
35:BC:33:U:H3'	35:BC:33:U:C6	2.32	0.65
35:BC:50:U:H2'	35:BC:51:G:H8	1.61	0.65
35:BC:60:C:H4'	35:BC:61:C:OP2	1.97	0.65
37:BE:77:ALA:O	37:BE:80:ILE:CB	2.43	0.65
39:BG:58:LEU:CD2	39:BG:62:GLN:HG2	2.26	0.65
40:BH:14:ARG:HG3	40:BH:14:ARG:O	1.95	0.65
40:BH:20:GLN:NE2	40:BH:21:ALA:H	1.93	0.65
40:BH:43:LEU:O	40:BH:65:ASN:ND2	2.29	0.65
41:BI:41:GLU:O	41:BI:42:GLU:CB	2.44	0.65
42:BJ:69:VAL:HG21	42:BJ:104:LEU:CD1	2.27	0.65
43:BK:24:THR:O	43:BK:60:ARG:HA	1.96	0.65
44:BL:38:GLN:HA	44:BL:38:GLN:OE1	1.95	0.65
45:BM:82:ILE:O	45:BM:86:MET:HB3	1.96	0.65
48:BP:49:THR:HG22	48:BP:51:ALA:H	1.60	0.65
51:BS:58:TYR:O	51:BS:61:SER:N	2.30	0.65
52:BT:61:GLU:HA	52:BT:71:PHE:CE1	2.31	0.65
53:BU:30:ASP:OD1	53:BU:32:ARG:HB2	1.95	0.65
55:BW:90:GLN:O	55:BW:93:GLU:HG3	1.96	0.65
45:BM:44:VAL:HG11	45:BM:46:ARG:NE	2.11	0.65
26:A2:3:ALA:CB	26:A2:44:GLN:OE1	2.43	0.65
26:A2:76:SER:OG	26:A2:84:THR:O	2.13	0.65
2:AA:2742:C:H5''	33:A9:35:ARG:NH1	2.12	0.65
2:AA:1109:C:N4	2:AA:1110:G:N2	2.43	0.65
2:AA:1168:G:H2'	2:AA:1169:G:C5'	2.26	0.65
2:AA:1181:C:O2'	2:AA:1182:A:P	2.53	0.65
2:AA:1268:A:C2'	2:AA:1269:A:C8	2.72	0.65
2:AA:1274:A:C2	2:AA:1302:A:C2	2.85	0.65
2:AA:1293:C:N3	2:AA:1294:U:C5	2.64	0.65
2:AA:1315:C:N4	2:AA:1337:G:N1	2.07	0.65
2:AA:134:C:C2	2:AA:146:G:N2	2.64	0.65
2:AA:1558:A:O2'	2:AA:1559:G:H5''	1.96	0.65
2:AA:1675:C:O2	2:AA:1676:A:O4'	2.14	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1787:A:H3'	2:AA:1787:A:OP2	1.96	0.65
2:AA:1835:G:N2	2:AA:1905:C:N3	2.41	0.65
2:AA:1856:G:O2'	2:AA:1857:G:H5'	1.96	0.65
2:AA:1909:C:C5	2:AA:1922:G:N2	2.65	0.65
2:AA:1971:A:H2'	2:AA:1972:A:OP1	1.96	0.65
2:AA:1996:C:OP1	2:AA:1996:C:C5	2.50	0.65
2:AA:2056:G:C2	2:AA:2057:A:C8	2.85	0.65
2:AA:207:A:C2	2:AA:208:C:C2	2.84	0.65
2:AA:2081:C:H5'	28:A4:35:VAL:HG21	1.78	0.65
2:AA:2280:G:C2	2:AA:2281:C:C5	2.85	0.65
2:AA:2402:C:O5'	2:AA:2402:C:H6	1.80	0.65
2:AA:2527:C:H5''	33:A9:30:VAL:HG12	1.79	0.65
2:AA:2561:A:C2'	2:AA:2562:U:O5'	2.44	0.65
2:AA:2603:G:H3'	2:AA:2603:G:C8	2.32	0.65
2:AA:2649:U:C2'	2:AA:2650:U:H6	2.04	0.65
2:AA:265:A:O2'	2:AA:266:G:P	2.55	0.65
2:AA:2818:G:N1	2:AA:2829:C:N4	2.44	0.65
2:AA:2892:A:H3'	2:AA:2893:G:H8	1.60	0.65
2:AA:306:U:H5	2:AA:307:G:C8	2.15	0.65
2:AA:442:G:N2	6:AF:46:TYR:CE2	2.65	0.65
2:AA:487:C:C5	2:AA:488:G:N7	2.64	0.65
2:AA:58:G:N2	2:AA:70:G:C5	2.65	0.65
2:AA:635:C:O2'	2:AA:639:U:OP1	2.13	0.65
2:AA:63:U:C3'	2:AA:63:U:C6	2.78	0.65
2:AA:71:A:H4'	2:AA:72:U:C5'	2.25	0.65
2:AA:729:G:N7	4:AD:207:ALA:HB1	2.11	0.65
2:AA:754:C:H2'	2:AA:755:C:H5'	1.78	0.65
2:AA:776:G:O2'	2:AA:777:A:OP2	2.14	0.65
2:AA:776:G:N3	2:AA:793:A:N6	2.45	0.65
2:AA:945:A:H2'	2:AA:946:G:O5'	1.95	0.65
1:AB:100:G:C2'	1:AB:101:A:O4'	2.45	0.65
1:AB:42:C:H2'	1:AB:43:C:C5	2.31	0.65
4:AD:111:VAL:O	4:AD:113:MET:N	2.30	0.65
4:AD:197:GLY:H	4:AD:199:ARG:NH1	1.95	0.65
4:AD:78:ALA:CB	4:AD:94:ASN:ND2	2.60	0.65
5:AE:247:ARG:HD2	5:AE:249:THR:OG1	1.97	0.65
5:AE:45:LYS:NZ	5:AE:302:GLY:C	2.50	0.65
6:AF:115:LEU:CD2	6:AF:246:ARG:HH22	2.08	0.65
9:AI:101:VAL:HG11	9:AI:104:SER:HB3	1.78	0.65
9:AJ:103:LYS:HD3	9:AJ:114:ILE:HG12	1.78	0.65
12:AM:79:PHE:O	12:AM:80:LYS:C	2.34	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:68:GLY:CA	13:AN:78:ARG:HG2	2.26	0.65
15:AP:65:ARG:NH2	15:AP:122:PHE:CE2	2.61	0.65
21:AV:112:LEU:HA	21:AV:174:PRO:CD	2.20	0.65
21:AV:81:VAL:HG12	21:AV:82:ASP:H	1.60	0.65
36:B1:11:U:O2	36:B1:45:A:N1	2.30	0.65
34:BA:1069:C:H1'	34:BA:1191:A:C2	2.32	0.65
34:BA:1239:A:C2'	34:BA:1298:C:N4	2.57	0.65
34:BA:1324:A:C6	34:BA:1325:C:C4	2.84	0.65
34:BA:1355:G:H1	34:BA:1367:C:H42	1.43	0.65
34:BA:1404:C:H2'	34:BA:1405:G:C8	2.31	0.65
34:BA:1413:A:C2	34:BA:1414:U:C6	2.85	0.65
34:BA:1418:A:C2'	34:BA:1419:G:H5'	2.26	0.65
34:BA:194:C:H2'	34:BA:195:A:H5''	1.78	0.65
34:BA:346:G:H2'	34:BA:347:G:O4'	1.95	0.65
34:BA:372:C:N4	34:BA:389:A:N6	2.33	0.65
34:BA:533:A:C5	34:BA:536:C:N4	2.65	0.65
34:BA:659:U:C2	34:BA:660:G:C8	2.85	0.65
34:BA:80:G:H2'	34:BA:81:U:H5''	1.79	0.65
37:BE:146:GLN:HE21	37:BE:150:SER:HB2	1.61	0.65
37:BE:24:TRP:CH2	37:BE:26:PRO:HA	2.31	0.65
37:BE:25:ASN:CG	37:BE:27:LYS:HB2	2.16	0.65
37:BE:78:GLN:HG3	37:BE:94:ASN:HB3	1.78	0.65
34:BA:1055:A:H2	38:BF:193:TYR:O	1.79	0.65
39:BG:108:LEU:O	39:BG:110:PHE:N	2.30	0.65
42:BJ:126:ASP:HB3	42:BJ:131:LYS:HG3	1.79	0.65
44:BL:114:TYR:HB2	45:BM:60:ARG:HH12	1.58	0.65
46:BN:13:GLN:H	46:BN:75:TYR:HB3	1.60	0.65
46:BN:85:ARG:NH2	46:BN:111:ASP:CG	2.49	0.65
47:BO:115:LYS:O	47:BO:117:ARG:N	2.28	0.65
34:BA:562:C:O3'	47:BO:15:ARG:HD2	1.96	0.65
47:BO:41:ARG:NH1	47:BO:57:LYS:CE	2.49	0.65
52:BT:78:GLU:O	52:BT:78:GLU:HG3	1.96	0.65
55:BW:36:LEU:HD12	55:BW:62:LEU:HD12	1.78	0.65
55:BW:63:ILE:CG2	55:BW:77:ALA:HB1	2.23	0.65
35:BB:23:A:C6	35:BB:24:G:C6	2.84	0.65
25:A1:74:MET:HG3	25:A1:117:ARG:NH1	2.12	0.65
25:A1:53:LYS:O	25:A1:57:PHE:CD1	2.50	0.65
25:A1:57:PHE:O	25:A1:60:LEU:N	2.30	0.65
28:A4:48:ARG:HG3	28:A4:49:PHE:CE1	2.32	0.65
29:A5:10:LYS:CA	29:A5:10:LYS:NZ	2.58	0.65
2:AA:1054:A:N6	2:AA:1104:C:N4	2.45	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:564:C:O2'	2:AA:1252:G:O6	2.13	0.65
2:AA:1372:U:H2'	2:AA:1373:A:C8	2.32	0.65
2:AA:1376:C:O2	2:AA:1376:C:H2'	1.96	0.65
2:AA:1379:A:C4	2:AA:1379:A:H3'	2.32	0.65
2:AA:1477:A:C2	2:AA:1516:U:C2	2.84	0.65
2:AA:1518:C:C2	2:AA:1519:G:C1'	2.77	0.65
2:AA:1534:G:N2	2:AA:1535:U:H5'	2.11	0.65
2:AA:1395:A:OP2	2:AA:1603:A:OP1	2.14	0.65
2:AA:2019:A:C2'	2:AA:2020:A:O4'	2.43	0.65
2:AA:411:G:OP2	2:AA:2407:G:OP1	2.15	0.65
2:AA:2520:C:C6	2:AA:2567:G:H1'	2.32	0.65
2:AA:2711:A:P	2:AA:2712:U:O3'	2.53	0.65
2:AA:2737:G:H2'	2:AA:2738:A:C8	2.31	0.65
2:AA:2740:A:N6	2:AA:2764:A:C8	2.65	0.65
2:AA:2838:G:C6	2:AA:2839:G:N7	2.64	0.65
2:AA:2850:A:C4	2:AA:2869:G:H4'	2.30	0.65
2:AA:365:C:C2	2:AA:366:C:H5	2.14	0.65
2:AA:378:C:O2	2:AA:396:G:N1	2.28	0.65
2:AA:448:U:O2'	2:AA:449:A:OP1	2.09	0.65
2:AA:593:G:C2	2:AA:594:U:C2	2.85	0.65
2:AA:786:C:HO2'	2:AA:787:U:H5'	1.57	0.65
2:AA:821:A:O2'	2:AA:945:A:C3'	2.36	0.65
2:AA:849:A:C2	23:AX:21:ALA:HB1	2.31	0.65
2:AA:933:A:O2'	2:AA:934:G:H5'	1.97	0.65
3:AC:114:VAL:HG21	3:AC:153:ILE:CD1	2.26	0.65
4:AD:71:ASP:CG	4:AD:118:GLY:HA3	2.15	0.65
4:AD:143:ILE:HD11	4:AD:154:VAL:HB	1.78	0.65
5:AE:44:TYR:CE1	5:AE:308:VAL:HA	2.32	0.65
6:AF:162:VAL:CG1	6:AF:163:HIS:N	2.59	0.65
8:AH:26:LYS:HZ2	8:AH:33:THR:CG2	2.08	0.65
8:AH:21:ASN:ND2	8:AH:38:PRO:HD3	2.08	0.65
8:AH:36:PHE:HE2	8:AH:70:LEU:HB3	1.59	0.65
8:AH:98:GLN:HB2	8:AH:103:VAL:HG21	1.79	0.65
11:AL:54:LEU:HD23	11:AL:73:PRO:HG3	1.78	0.65
12:AM:10:VAL:HG21	12:AM:36:VAL:HG22	1.77	0.65
14:AO:116:HIS:O	14:AO:118:LEU:HD21	1.95	0.65
14:AO:67:ARG:HH12	14:AO:109:LEU:CD1	2.01	0.65
15:AP:49:VAL:HA	15:AP:121:ASP:HB2	1.79	0.65
18:AS:36:LEU:HD12	18:AS:51:LEU:CD2	2.25	0.65
21:AV:15:ASP:O	21:AV:16:GLU:HB2	1.95	0.65
2:AA:850:C:H5''	23:AX:18:ASP:HB2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1049:U:C5	34:BA:1201:A:H5'	2.32	0.65
34:BA:1115:C:C5	34:BA:1116:C:C5	2.85	0.65
34:BA:1419:G:O2'	34:BA:1420:C:C5'	2.45	0.65
34:BA:1472:U:C2'	34:BA:1473:A:H5'	2.26	0.65
34:BA:1515:C:H2'	34:BA:1516:G:H8	1.61	0.65
34:BA:174:C:H2'	34:BA:175:C:H6	1.61	0.65
34:BA:359:U:H2'	34:BA:360:A:O5'	1.97	0.65
34:BA:439:A:H3'	34:BA:440:A:C8	2.31	0.65
34:BA:463:A:O2'	51:BS:82:GLN:HG2	1.97	0.65
34:BA:61:G:O2'	34:BA:62:U:H5'	1.96	0.65
34:BA:688:G:N2	34:BA:699:C:N3	2.41	0.65
34:BA:784:C:C2	34:BA:785:G:C8	2.85	0.65
34:BA:887:G:H2'	34:BA:888:G:H8	1.60	0.65
34:BA:900:A:C8	34:BA:901:A:N7	2.64	0.65
34:BA:904:C:O2'	34:BA:905:U:H5'	1.97	0.65
34:BA:986:A:N3	54:BV:52:TYR:OH	2.29	0.65
37:BE:16:HIS:C	37:BE:204:ASN:HB2	2.17	0.65
38:BF:122:GLU:O	38:BF:125:GLU:HB2	1.97	0.65
40:BH:141:GLN:OE1	40:BH:141:GLN:N	2.29	0.65
43:BK:120:THR:HG23	43:BK:123:GLU:OE1	1.96	0.65
34:BA:598:U:C4'	43:BK:94:TYR:HD2	2.09	0.65
48:BP:108:ARG:HH11	48:BP:108:ARG:CB	2.10	0.65
34:BA:1228:C:OP1	48:BP:111:LYS:HD3	1.97	0.65
48:BP:2:ALA:O	48:BP:4:ILE:HG13	1.96	0.65
48:BP:92:HIS:NE2	48:BP:98:VAL:HG11	2.12	0.65
50:BR:39:LEU:HD13	50:BR:56:LEU:HD13	1.78	0.65
50:BR:69:TYR:O	50:BR:72:ARG:HB3	1.96	0.65
51:BS:9:PHE:CE2	51:BS:18:ARG:HG3	2.31	0.65
53:BU:63:GLN:HA	53:BU:66:LEU:CD2	2.26	0.65
55:BW:49:ALA:HB3	55:BW:99:LEU:CG	2.25	0.65
2:AA:1485:G:OP2	2:AA:1485:G:H8	1.79	0.65
37:BE:132:LYS:O	37:BE:136:VAL:HG23	1.95	0.65
40:BH:28:PHE:H	40:BH:28:PHE:HD1	1.40	0.65
45:BM:12:ASP:OD1	45:BM:14:LYS:HB2	1.95	0.65
25:A1:43:ALA:O	25:A1:44:THR:C	2.35	0.65
27:A3:36:ILE:O	27:A3:37:LEU:HG	1.95	0.65
27:A3:48:GLY:N	27:A3:49:GLN:HE21	1.94	0.65
27:A3:59:LEU:CA	27:A3:81:ILE:HG12	2.26	0.65
28:A4:6:HIS:HB2	28:A4:7:PRO:CD	2.27	0.65
29:A5:10:LYS:CB	29:A5:10:LYS:NZ	2.60	0.65
31:A7:38:GLY:O	31:A7:39:ARG:CB	2.45	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1168:G:O2'	2:AA:1169:G:H5'	1.97	0.65
2:AA:118:A:C8	2:AA:177:G:N2	2.65	0.65
2:AA:1223:C:N4	26:A2:87:ARG:HH21	1.94	0.65
2:AA:1332:G:C5	2:AA:1609:A:C6	2.85	0.65
2:AA:1517:G:O2'	2:AA:1518:C:H5'	1.97	0.65
2:AA:1534:G:N3	2:AA:1535:U:H5'	2.11	0.65
2:AA:1544:C:C2'	2:AA:1545:A:H4'	2.27	0.65
2:AA:1666:G:H2'	2:AA:1667:G:C5'	2.24	0.65
2:AA:1726:G:C6	2:AA:1727:U:C2	2.85	0.65
2:AA:1769:G:N2	2:AA:1984:G:C4	2.64	0.65
2:AA:1774:C:N4	2:AA:1775:U:O4	2.30	0.65
2:AA:1814:G:C2	2:AA:1815:A:N6	2.65	0.65
2:AA:1829:A:H3'	2:AA:1830:C:H6	1.61	0.65
2:AA:1986:A:C2	2:AA:1987:G:C8	2.84	0.65
2:AA:2047:U:H2'	2:AA:2048:G:H8	1.61	0.65
2:AA:2244:U:H1'	2:AA:2434:A:N7	2.11	0.65
2:AA:2286:A:H4'	2:AA:2287:A:O4'	1.97	0.65
2:AA:2353:G:N2	2:AA:2364:C:C2	2.64	0.65
2:AA:247:G:N2	2:AA:252:G:C6	2.64	0.65
2:AA:244:A:C1'	2:AA:255:A:N6	2.58	0.65
2:AA:2680:C:H5''	5:AE:302:GLY:CA	2.27	0.65
2:AA:2714:G:C6	2:AA:2715:C:C4	2.85	0.65
2:AA:71:A:O2'	19:AT:2:TRP:CZ2	2.49	0.65
2:AA:994:C:O3'	2:AA:995:C:H4'	1.95	0.65
3:AC:127:LEU:HB3	3:AC:130:ILE:HB	1.78	0.65
3:AC:59:ARG:CZ	3:AC:164:ARG:HH11	2.09	0.65
4:AD:76:ARG:HB3	4:AD:113:MET:HB3	1.77	0.65
4:AD:141:HIS:HB3	4:AD:154:VAL:HG11	1.78	0.65
4:AD:132:GLU:O	4:AD:166:LYS:NZ	2.30	0.65
8:AH:112:VAL:HB	8:AH:151:ARG:NH2	2.12	0.65
8:AH:159:LYS:N	8:AH:162:ARG:NH1	2.33	0.65
9:AI:29:PHE:HB2	9:AI:34:ALA:HB2	1.79	0.65
2:AA:1083:U:N3	9:AI:36:PRO:HB3	2.11	0.65
2:AA:2198:A:C2	10:AK:29:PHE:HB3	2.31	0.65
10:AK:29:PHE:HD2	10:AK:30:LEU:HG	1.57	0.65
9:AJ:89:LYS:HZ2	11:AL:8:GLN:N	1.95	0.65
12:AM:45:VAL:HG13	12:AM:131:THR:HG23	1.78	0.65
13:AN:4:GLN:O	13:AN:21:VAL:HB	1.96	0.65
14:AO:120:LEU:O	14:AO:140:VAL:O	2.14	0.65
15:AP:82:LYS:HZ3	15:AP:84:ARG:NE	1.94	0.65
18:AS:12:ILE:CG2	18:AS:13:SER:N	2.58	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1341:U:O2'	19:AT:53:ASN:OD1	2.15	0.65
19:AT:76:GLU:OE1	19:AT:77:VAL:N	2.29	0.65
20:AU:101:LEU:HD22	20:AU:103:LEU:CG	2.26	0.65
21:AV:45:GLN:NE2	21:AV:45:GLN:H	1.91	0.65
21:AV:2:GLU:OE1	21:AV:4:THR:HG23	1.97	0.65
23:AX:26:LEU:HD23	23:AX:46:ASN:HD22	1.61	0.65
36:B1:52:A:C4	36:B1:53:G:N7	2.65	0.65
35:BC:34:G:N2	36:B1:62:G:H1	1.94	0.65
34:BA:1101:A:O2'	34:BA:1102:A:O5'	2.14	0.65
34:BA:22:G:H3'	34:BA:23:C:H6	1.62	0.65
34:BA:375:U:H2'	34:BA:376:G:C8	2.31	0.65
34:BA:373:A:C5	34:BA:482:A:N7	2.64	0.65
34:BA:674:G:O2'	53:BU:81:PHE:CE1	2.48	0.65
34:BA:694:A:H8	34:BA:694:A:O5'	1.80	0.65
34:BA:777:A:N3	34:BA:778:G:C8	2.64	0.65
37:BE:115:LEU:HD22	37:BE:149:LEU:CB	2.26	0.65
38:BF:82:GLU:O	38:BF:85:ARG:HB3	1.96	0.65
39:BG:16:GLY:O	39:BG:18:LYS:N	2.30	0.65
34:BA:409:G:H5'	39:BG:24:GLU:HB3	1.78	0.65
34:BA:932:C:H4'	42:BJ:4:ARG:CZ	2.27	0.65
43:BK:85:ARG:NH1	43:BK:85:ARG:HG2	2.11	0.65
34:BA:1249:C:O4'	44:BL:70:LYS:NZ	2.30	0.65
46:BN:100:ALA:O	46:BN:102:GLY:N	2.27	0.65
46:BN:44:SER:O	46:BN:47:VAL:HB	1.96	0.65
48:BP:108:ARG:NH1	48:BP:111:LYS:CB	2.59	0.65
49:BQ:55:GLY:O	49:BQ:56:VAL:C	2.34	0.65
52:BT:10:VAL:HB	52:BT:54:GLY:H	1.62	0.65
52:BT:7:THR:O	52:BT:23:VAL:HG22	1.96	0.65
52:BT:24:GLU:HG2	52:BT:38:ARG:O	1.97	0.65
52:BT:31:LEU:HG	52:BT:32:TYR:CE2	2.32	0.65
55:BW:30:LYS:HZ3	55:BW:30:LYS:HB2	1.60	0.65
10:AK:132:LYS:HA	10:AK:138:THR:CG2	2.27	0.65
1:AB:12:C:H5	27:A3:53:MET:C	1.98	0.65
25:A1:32:TYR:O	25:A1:36:PHE:CE1	2.49	0.65
25:A1:37:GLN:O	25:A1:38:THR:C	2.35	0.65
25:A1:70:ARG:HG3	25:A1:76:TYR:OH	1.97	0.65
25:A1:98:ILE:C	25:A1:100:ALA:N	2.47	0.65
26:A2:5:ILE:HA	26:A2:39:PHE:HD2	1.62	0.65
27:A3:25:LYS:CE	27:A3:57:HIS:ND1	2.60	0.65
32:A8:16:ILE:H	32:A8:16:ILE:CD1	2.07	0.65
2:AA:1074:G:O2'	2:AA:1075:C:H5'	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1084:A:C2	9:AI:29:PHE:HE1	2.15	0.65
2:AA:1091:G:N2	2:AA:1101:U:C6	2.65	0.65
2:AA:1135:C:C2	2:AA:1136:G:C8	2.85	0.65
2:AA:1144:G:C8	2:AA:1145:C:C5	2.85	0.65
2:AA:1290:C:H2'	2:AA:1291:C:C6	2.31	0.65
2:AA:136:G:O3'	2:AA:137:C:C4'	2.43	0.65
2:AA:136:G:O6	2:AA:143:C:C4	2.50	0.65
2:AA:1560:G:H2'	2:AA:1561:G:O5'	1.97	0.65
2:AA:1668:A:N6	2:AA:1674:G:N3	2.45	0.65
2:AA:2051:A:O2'	5:AE:238:LEU:HB2	1.97	0.65
2:AA:2056:G:N3	2:AA:2056:G:H2'	2.11	0.65
2:AA:2289:G:H5''	2:AA:2384:G:O2'	1.96	0.65
2:AA:2373:G:C2	2:AA:2374:C:N3	2.65	0.65
2:AA:2056:G:N7	2:AA:2577:A:C5	2.65	0.65
2:AA:2603:G:C6	2:AA:2604:U:C4	2.84	0.65
2:AA:2684:U:O2	2:AA:2725:A:N1	2.29	0.65
2:AA:270(S):G:C2'	2:AA:270(T):G:C8	2.78	0.65
2:AA:285:C:H2'	2:AA:286:C:N1	2.11	0.65
2:AA:364:C:C2	2:AA:365:C:C4	2.83	0.65
2:AA:271(B):G:N2	2:AA:421:U:OP1	2.27	0.65
2:AA:422:A:C2'	2:AA:423:A:O5'	2.44	0.65
2:AA:459:U:C5	2:AA:460:A:N7	2.65	0.65
2:AA:499:U:O2'	2:AA:500:G:H5'	1.97	0.65
2:AA:514:A:N3	2:AA:515:A:C8	2.65	0.65
2:AA:567:A:H2	2:AA:568:U:H1'	1.62	0.65
2:AA:585:G:C6	2:AA:1251:C:C5	2.85	0.65
2:AA:760:G:C2	2:AA:761:A:H1'	2.31	0.65
3:AC:15:ASP:OD2	3:AC:20:TYR:CE2	2.49	0.65
2:AA:2785:C:HO2'	5:AE:100:TRP:HD1	1.40	0.65
5:AE:216:ARG:HD3	5:AE:254:GLY:N	2.12	0.65
5:AE:269:ILE:H	5:AE:269:ILE:CD1	1.92	0.65
6:AF:34:ALA:HB2	6:AF:110:ALA:CB	2.23	0.65
6:AF:201:SER:O	6:AF:202:THR:O	2.15	0.65
7:AG:24:HIS:HB3	7:AG:72:LYS:HD3	1.79	0.65
8:AH:147:ILE:HG22	8:AH:148:ARG:N	2.11	0.65
9:AI:80:ILE:HD13	9:AI:114:ILE:HG23	1.77	0.65
9:AJ:101:VAL:HG11	9:AJ:104:SER:HB3	1.78	0.65
9:AJ:13:LEU:HD22	9:AJ:17:GLU:HB3	1.78	0.65
10:AK:6:LEU:O	10:AK:14:LYS:CE	2.45	0.65
10:AK:22:ALA:O	10:AK:25:TYR:HB2	1.97	0.65
10:AK:37:ILE:CG2	10:AK:38:GLU:N	2.59	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:40:THR:HG22	10:AK:42:ALA:HB3	1.79	0.65
12:AM:80:LYS:O	12:AM:83:ILE:HG12	1.96	0.65
13:AN:63:VAL:CG2	13:AN:84:CYS:HA	2.26	0.65
15:AP:67:ALA:CA	15:AP:70:ARG:NH1	2.60	0.65
15:AP:74:ASN:HD22	15:AP:75:SER:H	1.45	0.65
17:AR:45:GLU:HB3	17:AR:48:ASN:HD21	1.61	0.65
19:AT:23:LYS:HG2	19:AT:67:ARG:HG3	1.78	0.65
20:AU:68:ASP:C	20:AU:70:ALA:H	2.00	0.65
21:AV:13:LYS:O	21:AV:36:ARG:NH2	2.29	0.65
34:BA:1321:C:N4	34:BA:1322:C:N3	2.45	0.65
34:BA:190:C:O2'	34:BA:190(A):C:H5'	1.97	0.65
34:BA:431:A:N6	34:BA:432:A:C2	2.64	0.65
34:BA:738:C:H4'	41:BI:70:ASP:HA	1.78	0.65
34:BA:757:U:H1'	34:BA:879:C:O2'	1.97	0.65
34:BA:791:G:C6	34:BA:792:A:N6	2.61	0.65
34:BA:826:C:C2	34:BA:827:U:C5	2.84	0.65
34:BA:891:U:H2'	34:BA:892:A:C8	2.27	0.65
34:BA:988:G:H21	34:BA:1016:A:H1'	1.61	0.65
35:BC:53:G:C2	35:BC:62:A:C5	2.84	0.65
37:BE:187:LEU:CD2	37:BE:201:ILE:O	2.44	0.65
37:BE:78:GLN:HG3	37:BE:94:ASN:CB	2.27	0.65
37:BE:84:GLU:HG3	37:BE:212:GLN:NE2	2.12	0.65
42:BJ:122:HIS:HA	42:BJ:125:MET:HG3	1.77	0.65
46:BN:82:VAL:HG12	46:BN:108:ILE:HG12	1.79	0.65
46:BN:126:ARG:C	46:BN:128:ALA:N	2.48	0.65
47:BO:27:LEU:HD22	47:BO:62:SER:CB	2.26	0.65
51:BS:42:ARG:O	51:BS:43:LYS:HD2	1.97	0.65
52:BT:59:ILE:CG1	52:BT:71:PHE:HB3	2.26	0.65
53:BU:31:LEU:HD13	53:BU:65:ILE:HG13	1.79	0.65
6:AF:59:GLU:HB2	6:AF:61:PHE:CE2	2.32	0.65
25:A1:67:ALA:O	25:A1:71:LEU:HB2	1.97	0.65
26:A2:11:GLN:OE1	26:A2:21:ARG:HD3	1.97	0.65
26:A2:61:VAL:HG22	26:A2:97:GLY:CA	2.20	0.65
26:A2:96:LEU:H	26:A2:96:LEU:HD23	1.60	0.65
27:A3:18:PRO:HB2	27:A3:36:ILE:CD1	2.27	0.65
18:AS:19:LEU:HB3	29:A5:25:LEU:CG	2.27	0.65
29:A5:56:GLN:O	29:A5:57:VAL:HG23	1.96	0.65
33:A9:7:VAL:HB	33:A9:36:GLN:CD	2.17	0.65
2:AA:1188:U:H2'	2:AA:1188:U:O2	1.97	0.65
2:AA:124:G:N2	2:AA:128:C:C4	2.64	0.65
2:AA:1364:G:C8	2:AA:1364:G:H5'	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1339:G:H1'	2:AA:1393:A:N3	2.12	0.65
2:AA:1453:A:N7	2:AA:1454:U:H6	1.95	0.65
2:AA:1270:C:O2'	2:AA:1648:C:OP2	2.10	0.65
2:AA:1678:G:H22	2:AA:1989:G:H22	1.42	0.65
2:AA:1936:A:C8	2:AA:1940:U:O4	2.49	0.65
2:AA:2072:G:C6	2:AA:2073:C:C4	2.84	0.65
2:AA:2317:C:H5'	7:AG:150:SER:CA	2.19	0.65
2:AA:2393:A:OP1	32:A8:27:SER:OG	2.14	0.65
2:AA:2065:C:H42	2:AA:2445:G:H1	1.44	0.65
2:AA:2064:C:H1'	2:AA:2450:A:N6	2.12	0.65
2:AA:1782:C:C4	2:AA:2587:A:N6	2.64	0.65
2:AA:2783:G:O5'	2:AA:2783:G:H8	1.80	0.65
2:AA:2882:A:C5'	24:A0:98:LEU:HD21	2.25	0.65
2:AA:319:C:H2'	2:AA:320:A:O4'	1.96	0.65
2:AA:290:G:N1	2:AA:350:U:N3	2.43	0.65
2:AA:573:G:H2'	2:AA:574:C:H3'	1.77	0.65
2:AA:710:G:H1	2:AA:721:C:N4	1.95	0.65
2:AA:714:U:C2'	2:AA:715:G:OP2	2.43	0.65
2:AA:748:G:H8	2:AA:750:A:OP2	1.80	0.65
2:AA:695:G:C6	2:AA:768:G:C6	2.84	0.65
2:AA:818:G:C5	2:AA:1187:G:C2	2.85	0.65
2:AA:823:G:C6	2:AA:824:A:N6	2.65	0.65
2:AA:838:C:N3	2:AA:941:A:N7	2.44	0.65
2:AA:984:A:C2'	2:AA:985:C:OP1	2.42	0.65
2:AA:8:A:H2'	2:AA:9:U:H6	1.62	0.65
3:AC:114:VAL:HG21	3:AC:153:ILE:HG12	1.79	0.65
3:AC:215:THR:HB	3:AC:221:SER:HA	1.78	0.65
4:AD:64:ILE:HG12	4:AD:102:TYR:HB2	1.79	0.65
4:AD:103:ILE:CG1	4:AD:104:ILE:N	2.59	0.65
5:AE:74:GLU:C	5:AE:75:THR:OG1	2.35	0.65
6:AF:115:LEU:HG	6:AF:246:ARG:CZ	2.26	0.65
6:AF:45:ASP:CB	6:AF:98:ARG:CZ	2.75	0.65
9:AJ:71:ILE:HG22	9:AJ:75:LYS:CE	2.26	0.65
14:AO:94:ARG:NH2	14:AO:118:LEU:C	2.50	0.65
18:AS:50:VAL:CG2	18:AS:103:ILE:HG21	2.27	0.65
19:AT:14:ALA:HB1	19:AT:18:MET:HE2	1.79	0.65
20:AU:42:VAL:O	20:AU:112:LEU:HD22	1.97	0.65
21:AV:54:ILE:HG23	21:AV:55:THR:N	2.12	0.65
22:AW:5:VAL:CG1	22:AW:59:ILE:HD12	2.24	0.65
34:BA:1159:U:C5	34:BA:1182:G:C4	2.84	0.65
34:BA:1274:G:H21	34:BA:1275:A:H62	1.44	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1292:U:H2'	34:BA:1293:G:H8	1.59	0.65
34:BA:1418:A:C6	34:BA:1483:A:C6	2.85	0.65
34:BA:1526:G:O2'	34:BA:1527:C:H5'	1.96	0.65
34:BA:251:G:H5'	34:BA:252:U:OP1	1.97	0.65
34:BA:253:U:H2'	34:BA:254:G:H8	1.61	0.65
34:BA:373:A:H2'	34:BA:374:A:H8	1.61	0.65
34:BA:518:C:O2'	34:BA:519:C:P	2.55	0.65
34:BA:608:A:C2	34:BA:609:A:C8	2.84	0.65
34:BA:665:A:C2	34:BA:732:C:N3	2.65	0.65
34:BA:730:G:H21	34:BA:765:G:H4'	1.62	0.65
34:BA:771:G:O6	34:BA:809:G:C6	2.50	0.65
34:BA:961:U:O4	34:BA:974:A:C2	2.47	0.65
42:BJ:90:GLU:O	42:BJ:91:VAL:HG23	1.97	0.65
43:BK:104:ARG:CB	43:BK:107:LEU:HG	2.25	0.65
43:BK:25:ASP:C	43:BK:58:TYR:HE2	1.99	0.65
43:BK:46:LYS:HG3	43:BK:64:LYS:HB2	1.77	0.65
43:BK:47:GLY:O	43:BK:62:TYR:CD2	2.50	0.65
44:BL:69:GLY:C	44:BL:73:GLN:OE1	2.36	0.65
50:BR:6:GLU:HG2	50:BR:7:GLU:N	2.12	0.65
54:BV:15:LEU:HG	54:BV:16:LEU:H	1.62	0.65
54:BV:66:MET:HB2	54:BV:74:PHE:HE2	1.61	0.65
54:BV:45:VAL:CG2	54:BV:67:VAL:HG21	2.26	0.65
55:BW:53:LEU:HD21	55:BW:92:LEU:HD13	1.79	0.65
25:A1:55:ARG:HG2	25:A1:58:ARG:HE	1.61	0.65
27:A3:19:LYS:HD2	27:A3:21:LEU:HD21	1.77	0.65
27:A3:25:LYS:C	27:A3:26:PHE:HD1	1.99	0.65
27:A3:37:LEU:N	27:A3:68:VAL:HG13	2.11	0.65
28:A4:58:LYS:N	28:A4:61:LYS:HD2	2.12	0.65
32:A8:13:ARG:HB3	32:A8:24:ALA:CB	2.27	0.65
33:A9:20:HIS:O	33:A9:22:ARG:N	2.30	0.65
2:AA:1063:G:H2'	2:AA:1064:C:H6	1.62	0.65
2:AA:1091:G:N2	2:AA:1100:C:N3	2.45	0.65
2:AA:1128:A:O2'	2:AA:1129:A:O5'	2.15	0.65
2:AA:119:A:C4'	2:AA:120:U:H5'	2.27	0.65
2:AA:1238:G:C3'	2:AA:1239:G:H5'	2.25	0.65
2:AA:1298:C:C4'	2:AA:1302:A:N6	2.59	0.65
2:AA:1341:U:H1'	19:AT:53:ASN:HB3	1.78	0.65
2:AA:1362:C:H2'	2:AA:1363:C:H6	1.61	0.65
2:AA:1474:C:O2	2:AA:1474:C:H2'	1.97	0.65
2:AA:152:G:C6	2:AA:175:G:N1	2.59	0.65
2:AA:1727:U:O2	2:AA:1733:G:C6	2.50	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1769:G:C4'	2:AA:1958:C:H5''	2.27	0.65
2:AA:1893:C:H2'	2:AA:1894:C:H6	1.60	0.65
2:AA:1918:A:C1'	2:AA:1918:A:OP2	2.45	0.65
2:AA:1936:A:H5''	2:AA:1937:A:C5'	2.26	0.65
2:AA:1943:U:C1'	2:AA:1945:G:H5''	2.26	0.65
2:AA:2048:G:H2'	2:AA:2049:G:O5'	1.97	0.65
2:AA:217:G:C2	2:AA:218:A:O4'	2.50	0.65
2:AA:2196:C:H2'	2:AA:2196:C:O2	1.97	0.65
2:AA:2289:G:OP1	2:AA:2385:C:P	2.55	0.65
2:AA:2472:G:N2	2:AA:2529:G:H1	1.94	0.65
2:AA:2448:A:P	2:AA:2499:C:OP2	2.55	0.65
2:AA:2617:C:HO2'	2:AA:2618:G:H5'	1.61	0.65
2:AA:2715:C:C2	2:AA:2716:U:C5	2.85	0.65
2:AA:2769:C:C2'	2:AA:2770:G:H5'	2.26	0.65
2:AA:297:C:C2	2:AA:298:G:H1'	2.32	0.65
2:AA:342:G:N2	2:AA:344:G:H21	1.88	0.65
2:AA:371:A:O2'	2:AA:372:G:OP1	2.15	0.65
2:AA:25:U:N3	2:AA:515:A:N6	2.32	0.65
2:AA:530:G:H1'	2:AA:531:C:O3'	1.97	0.65
2:AA:18:C:O2	2:AA:553:U:H5''	1.97	0.65
2:AA:613:U:H5'	2:AA:614:U:C5	2.31	0.65
2:AA:625:G:C2	2:AA:626:U:O4'	2.50	0.65
2:AA:638:G:C5	2:AA:639:U:O2	2.50	0.65
2:AA:72:U:O2'	2:AA:73:A:P	2.54	0.65
2:AA:928:G:C2	2:AA:929:G:O6	2.51	0.65
1:AB:58:A:N6	1:AB:59:A:C6	2.65	0.65
1:AB:59:A:H2'	1:AB:60:C:H5'	1.79	0.65
3:AC:22:ILE:HG21	3:AC:186:ALA:HA	1.79	0.65
3:AC:22:ILE:HD12	3:AC:190:ARG:NH2	2.12	0.65
4:AD:175:LEU:HD21	4:AD:181:ARG:H	1.62	0.65
4:AD:197:GLY:H	4:AD:199:ARG:HH11	1.45	0.65
2:AA:729:G:N7	4:AD:207:ALA:CB	2.59	0.65
5:AE:211:GLN:HE22	5:AE:216:ARG:N	1.94	0.65
5:AE:214:VAL:CG2	5:AE:221:LYS:NZ	2.60	0.65
2:AA:606:U:P	6:AF:105:LYS:HD2	2.37	0.65
6:AF:3:ALA:HB3	6:AF:16:VAL:C	2.16	0.65
10:AK:21:VAL:HG11	10:AK:30:LEU:CD1	2.26	0.65
13:AN:2:ILE:H	13:AN:67:ARG:NH2	1.95	0.65
15:AP:49:VAL:HG13	15:AP:50:VAL:N	2.12	0.65
2:AA:2718:G:OP1	17:AR:38:ASN:ND2	2.30	0.65
20:AU:71:VAL:HG13	20:AU:91:LEU:O	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:149:ALA:O	21:AV:150:GLY:C	2.35	0.65
23:AX:45:GLY:HA2	23:AX:48:GLU:OE1	1.95	0.65
34:BA:1118:C:H1'	34:BA:1179:A:C5	2.32	0.65
34:BA:1269:A:C6	34:BA:1312:G:O2'	2.48	0.65
34:BA:219:C:C6	34:BA:219:C:C3'	2.79	0.65
34:BA:482:A:N3	34:BA:482:A:C2'	2.58	0.65
34:BA:439:A:C5'	34:BA:494:G:H22	2.09	0.65
34:BA:826:C:H6	34:BA:826:C:O5'	1.78	0.65
35:BC:14:A:H2'	35:BC:15:G:C8	2.32	0.65
38:BF:73:PRO:HG3	38:BF:105:GLU:CD	2.16	0.65
39:BG:123:HIS:CB	39:BG:125:HIS:NE2	2.60	0.65
39:BG:130:GLY:O	39:BG:131:ARG:O	2.15	0.65
39:BG:148:VAL:HB	39:BG:153:ARG:HG2	1.79	0.65
41:BI:11:ASN:OD1	41:BI:14:LEU:HD23	1.97	0.65
43:BK:47:GLY:C	43:BK:61:VAL:HG13	2.17	0.65
43:BK:95:VAL:HB	43:BK:99:GLU:OE2	1.96	0.65
44:BL:12:GLU:N	44:BL:104:ARG:NH2	2.44	0.65
49:BQ:24:CYS:HB3	49:BQ:28:GLY:C	2.16	0.65
49:BQ:9:LYS:HA	49:BQ:21:TYR:CE1	2.28	0.65
50:BR:70:LEU:C	50:BR:70:LEU:CD1	2.63	0.65
51:BS:6:LEU:HD23	51:BS:6:LEU:O	1.94	0.65
53:BU:46:GLU:HB3	53:BU:85:LEU:HD11	1.77	0.65
53:BU:80:PRO:O	53:BU:81:PHE:CD1	2.50	0.65
55:BW:43:LEU:HD12	55:BW:55:ILE:CD1	2.24	0.65
10:AK:79:ILE:O	10:AK:145:VAL:HG13	1.96	0.65
53:BU:34:TYR:CE1	53:BU:35:ARG:HG3	2.32	0.65
25:A1:74:MET:HE2	25:A1:78:THR:CG2	2.23	0.64
25:A1:69:ALA:HB3	25:A1:76:TYR:CE2	2.31	0.64
25:A1:92:ARG:HA	25:A1:95:LEU:CD1	2.27	0.64
28:A4:33:VAL:HG13	28:A4:35:VAL:HG23	1.80	0.64
31:A7:44:VAL:O	31:A7:45:SER:C	2.34	0.64
30:A6:11:LYS:NZ	32:A8:35:GLY:H	1.96	0.64
2:AA:1175:U:O2	2:AA:1175:U:H2'	1.97	0.64
2:AA:1222:C:C4	2:AA:1223:C:C5	2.85	0.64
2:AA:1298:C:O2'	2:AA:1302:A:C8	2.46	0.64
2:AA:1298:C:C4'	2:AA:1302:A:H62	2.07	0.64
2:AA:1392:A:H2'	2:AA:1393:A:C8	2.32	0.64
2:AA:1656:C:H2'	2:AA:1657:C:C5	2.32	0.64
2:AA:1885:A:O2'	2:AA:1886:C:H5'	1.97	0.64
2:AA:2212:A:C2	2:AA:2213:U:H5''	2.32	0.64
2:AA:2326:C:O2	2:AA:2326:C:H2'	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2332:U:C4'	2:AA:2336:A:N6	2.60	0.64
2:AA:2356:C:H2'	2:AA:2357:U:O5'	1.97	0.64
2:AA:243:U:H2'	2:AA:243:U:O2	1.97	0.64
2:AA:2488:A:O5'	2:AA:2488:A:H8	1.80	0.64
2:AA:2543:G:C2'	2:AA:2544:G:C8	2.76	0.64
2:AA:2548:G:H1	2:AA:2560:C:H42	1.43	0.64
2:AA:2589:A:C5	2:AA:2590:A:N7	2.66	0.64
2:AA:2631:G:C2	2:AA:2632:A:H1'	2.32	0.64
2:AA:274:G:N2	2:AA:274:G:OP2	2.30	0.64
2:AA:2853:C:HO2'	2:AA:2854:G:H5'	1.62	0.64
2:AA:616:A:C2'	2:AA:617:G:N3	2.60	0.64
2:AA:627:A:C6	2:AA:637:A:C1'	2.72	0.64
2:AA:71:A:O2'	2:AA:72:U:C5'	2.45	0.64
2:AA:738:G:C4	2:AA:739:G:N3	2.65	0.64
2:AA:762:U:H5''	2:AA:763:G:OP1	1.97	0.64
2:AA:848:G:C3'	2:AA:848:G:C8	2.80	0.64
2:AA:929:G:OP2	2:AA:930:U:H5	1.80	0.64
1:AB:115:G:C5'	16:AQ:59:ALA:CB	2.65	0.64
1:AB:88:C:C6	1:AB:88:C:C3'	2.79	0.64
3:AC:23:ASP:O	3:AC:26:ALA:HB3	1.97	0.64
4:AD:103:ILE:HG12	4:AD:104:ILE:N	2.12	0.64
4:AD:109:LEU:HD13	4:AD:115:ILE:CG1	2.23	0.64
2:AA:1789:A:H4'	4:AD:224:VAL:HG11	1.78	0.64
4:AD:89:ASN:ND2	4:AD:199:ARG:NH2	2.45	0.64
2:AA:2621:A:O2'	5:AE:255:GLN:OE1	2.12	0.64
5:AE:42:ALA:CA	5:AE:311:PHE:CZ	2.80	0.64
6:AF:55:ARG:C	6:AF:79:ARG:NH2	2.47	0.64
7:AG:56:ARG:HD2	7:AG:65:GLU:CB	2.27	0.64
8:AH:10:ILE:HG12	8:AH:14:VAL:CG1	2.25	0.64
2:AA:1063:G:H5'	11:AL:88:GLY:HA3	1.79	0.64
12:AM:53:ILE:CG2	12:AM:54:VAL:N	2.60	0.64
2:AA:872:A:HO2'	15:AP:31:PHE:CB	2.06	0.64
15:AP:42:TYR:CA	21:AV:119:ASN:HD21	2.10	0.64
15:AP:82:LYS:HB2	15:AP:125:TRP:CB	2.28	0.64
2:AA:1339:G:C5'	19:AT:13:LYS:HE3	2.27	0.64
21:AV:124:ALA:N	21:AV:159:THR:HG21	2.12	0.64
21:AV:127:PRO:O	21:AV:128:ARG:C	2.35	0.64
21:AV:147:ILE:O	21:AV:168:VAL:HB	1.96	0.64
34:BA:954:G:N2	34:BA:1227:A:H62	1.93	0.64
34:BA:122:G:H1	34:BA:239:U:H3	1.42	0.64
34:BA:190:C:C2	34:BA:190(A):C:C6	2.85	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:195:A:H1'	34:BA:223:U:H5'	1.79	0.64
34:BA:333:G:O2'	34:BA:334:C:H5'	1.97	0.64
34:BA:359:U:H2'	34:BA:360:A:H8	1.61	0.64
34:BA:413:G:H22	34:BA:428:G:C2'	2.09	0.64
34:BA:483:C:C2'	34:BA:484:G:OP1	2.44	0.64
34:BA:627:G:H2'	34:BA:628:G:C8	2.32	0.64
37:BE:102:LEU:CD2	37:BE:176:GLU:CB	2.74	0.64
37:BE:91:PRO:CD	37:BE:155:LEU:HD23	2.27	0.64
37:BE:70:PHE:O	37:BE:92:TYR:CA	2.45	0.64
40:BH:76:ILE:CG2	40:BH:77:PRO:HD2	2.27	0.64
41:BI:29:ALA:O	41:BI:30:LEU:C	2.35	0.64
34:BA:673:G:H5''	41:BI:87:ARG:NH2	2.12	0.64
43:BK:120:THR:N	43:BK:123:GLU:CD	2.51	0.64
43:BK:10:LEU:HD13	43:BK:85:ARG:HB2	1.79	0.64
44:BL:104:ARG:O	44:BL:105:ASP:HB2	1.95	0.64
47:BO:30:ALA:HB1	47:BO:31:PRO:CD	2.27	0.64
34:BA:953:G:O6	48:BP:104:ARG:NE	2.29	0.64
50:BR:46:HIS:O	50:BR:48:LYS:N	2.30	0.64
51:BS:20:VAL:CG2	51:BS:35:LYS:HA	2.22	0.64
53:BU:27:GLY:O	53:BU:29:PHE:N	2.30	0.64
35:BB:41:U:C4	35:BB:42:G:N7	2.65	0.64
27:A3:46:LYS:HZ1	27:A3:60:PHE:C	1.99	0.64
28:A4:43:TRP:HB3	28:A4:56:VAL:O	1.97	0.64
2:AA:1059:G:N2	11:AL:131:THR:HG23	2.12	0.64
2:AA:1136:G:N2	12:AM:85:GLY:O	2.29	0.64
2:AA:1300:U:H6	2:AA:1301:A:C2	2.15	0.64
2:AA:1327:C:H2'	2:AA:1328:G:O4'	1.97	0.64
2:AA:1341:U:O2'	19:AT:53:ASN:CB	2.44	0.64
2:AA:1350:C:N4	2:AA:1382:G:C2	2.65	0.64
2:AA:1378:A:O2'	2:AA:1379:A:P	2.55	0.64
2:AA:1405:U:O2	2:AA:1597:A:N1	2.29	0.64
2:AA:1462:C:H2'	2:AA:1462:C:O2	1.95	0.64
2:AA:145:G:H2'	2:AA:146:G:C8	2.32	0.64
2:AA:1494:A:C2'	2:AA:1494:A:N3	2.59	0.64
2:AA:1608:A:N6	2:AA:1611:C:H1'	2.13	0.64
2:AA:1636:C:O2	2:AA:1636:C:H2'	1.97	0.64
2:AA:1727:U:C2	2:AA:1733:G:O6	2.50	0.64
2:AA:1919:A:P	2:AA:1919:A:H3'	2.37	0.64
2:AA:578:A:C2	2:AA:2018:G:O4'	2.50	0.64
2:AA:2072:G:C4	2:AA:2073:C:C5	2.85	0.64
2:AA:2191:G:N2	2:AA:2192:G:H1'	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2199:A:H5''	2:AA:2205:C:OP2	1.97	0.64
2:AA:2371:G:N2	2:AA:2372:G:C5	2.64	0.64
2:AA:245:G:H5''	14:AO:55:GLN:HA	1.79	0.64
2:AA:570:G:O6	2:AA:2499:C:OP1	2.16	0.64
2:AA:2543:G:C5	2:AA:2544:G:C6	2.85	0.64
2:AA:2544:G:H2'	2:AA:2545:G:O4'	1.97	0.64
2:AA:265:A:C6	2:AA:281:G:OP2	2.50	0.64
2:AA:328:U:O2	2:AA:328:U:C2'	2.44	0.64
2:AA:402:A:N3	2:AA:406:G:O2'	2.29	0.64
2:AA:503:A:H2'	2:AA:506:G:N7	2.12	0.64
2:AA:568:U:C2'	2:AA:568:U:O2	2.46	0.64
2:AA:61:G:C6	2:AA:62:C:C4	2.85	0.64
2:AA:638:G:C5	2:AA:639:U:C2	2.86	0.64
2:AA:715:G:OP2	2:AA:715:G:H8	1.80	0.64
2:AA:749:C:O2'	2:AA:750:A:H5'	1.97	0.64
2:AA:754:C:O2'	2:AA:755:C:H5'	1.97	0.64
2:AA:76:C:H2'	2:AA:76:C:O2	1.96	0.64
2:AA:784:A:C6	2:AA:792:G:C1'	2.81	0.64
2:AA:856:C:H5'	27:A3:25:LYS:HE3	1.79	0.64
2:AA:859:G:O4'	2:AA:859:G:OP2	2.14	0.64
3:AC:22:ILE:CG2	3:AC:189:ILE:HB	2.27	0.64
3:AC:39:GLU:HG2	3:AC:216:THR:OG1	1.97	0.64
4:AD:150:GLY:O	4:AD:152:GLN:OE1	2.14	0.64
2:AA:1993:U:C5'	5:AE:228:ARG:HE	2.10	0.64
2:AA:2579:C:H4'	5:AE:231:TRP:HH2	1.58	0.64
2:AA:2620:C:H4'	5:AE:252:GLN:HB2	1.79	0.64
5:AE:256:THR:CB	5:AE:259:HIS:HE1	2.10	0.64
5:AE:44:TYR:CD2	5:AE:307:LEU:C	2.70	0.64
5:AE:42:ALA:H	5:AE:189:MET:HE1	1.63	0.64
6:AF:154:VAL:HG12	6:AF:158:GLU:OE1	1.97	0.64
6:AF:140:VAL:CB	6:AF:236:THR:HA	2.22	0.64
8:AH:100:LYS:C	8:AH:101:LYS:HD2	2.17	0.64
2:AA:1076:C:H4'	11:AL:94:ARG:CZ	2.28	0.64
12:AM:16:ASP:CA	12:AM:45:VAL:HG23	2.26	0.64
13:AN:27:GLY:O	13:AN:30:ARG:HD2	1.97	0.64
16:AQ:38:LYS:NZ	16:AQ:114:LYS:HD2	2.12	0.64
2:AA:1340:U:C5	19:AT:55:GLN:NE2	2.65	0.64
19:AT:71:ASP:OD1	19:AT:72:ASP:N	2.30	0.64
21:AV:19:ILE:HD11	21:AV:79:ILE:HD13	1.79	0.64
34:BA:1498:U:HO2'	34:BA:1499:A:C5'	2.09	0.64
34:BA:926:G:H2'	34:BA:1505:G:H21	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:16:A:C2	34:BA:17:U:C6	2.85	0.64
34:BA:193:C:C2	34:BA:194:C:C5	2.85	0.64
34:BA:609:A:C2	34:BA:610:G:C1'	2.77	0.64
34:BA:790:A:O2'	34:BA:791:G:O5'	2.10	0.64
34:BA:852:G:C6	34:BA:853:G:N7	2.65	0.64
34:BA:907:A:H3'	34:BA:908:A:H8	1.63	0.64
35:BC:68:U:H2'	35:BC:69:U:C6	2.33	0.64
37:BE:214:ILE:N	37:BE:214:ILE:HD13	2.13	0.64
37:BE:35:GLU:O	37:BE:36:ARG:NE	2.31	0.64
38:BF:190:ARG:CZ	38:BF:190:ARG:HB3	2.26	0.64
39:BG:129:ASN:OD1	39:BG:145:GLU:N	2.31	0.64
39:BG:54:TYR:O	39:BG:55:ALA:C	2.35	0.64
40:BH:96:PRO:O	40:BH:97:GLY:C	2.36	0.64
46:BN:64:ALA:O	46:BN:65:ALA:C	2.34	0.64
46:BN:99:GLN:HA	46:BN:105:VAL:CG2	2.27	0.64
34:BA:538:G:O3'	47:BO:114:LYS:NZ	2.30	0.64
49:BQ:22:THR:HB	49:BQ:33:VAL:HG23	1.78	0.64
10:AK:116:GLU:OE1	10:AK:130:PRO:HB2	1.96	0.64
1:AB:12:C:C3'	27:A3:53:MET:SD	2.84	0.64
37:BE:130:ARG:NE	37:BE:130:ARG:CA	2.58	0.64
24:A0:97:VAL:HG22	24:A0:114:VAL:HG11	1.79	0.64
25:A1:64:ARG:NH1	25:A1:101:ARG:NH2	2.46	0.64
25:A1:8:ILE:CD1	25:A1:9:VAL:HG23	2.27	0.64
26:A2:68:LYS:HG2	26:A2:69:ILE:CD1	2.26	0.64
28:A4:20:VAL:HB	28:A4:30:GLU:OE1	1.97	0.64
2:AA:1154:G:O2'	2:AA:1155:A:H5''	1.97	0.64
2:AA:1210:A:C5'	2:AA:1211:U:H3'	2.28	0.64
2:AA:1221:C:C4	2:AA:1229:G:N1	2.65	0.64
2:AA:1241:A:O4'	2:AA:1241:A:P	2.56	0.64
2:AA:1398:C:H2'	2:AA:1399:C:C6	2.33	0.64
2:AA:1422:G:H1	2:AA:1576:U:H3	1.42	0.64
2:AA:1796:U:O2'	2:AA:1797:C:C6	2.50	0.64
2:AA:1820:U:O2'	2:AA:1821:A:P	2.55	0.64
2:AA:187:G:O2'	2:AA:188:G:H5'	1.98	0.64
2:AA:1899:G:H21	2:AA:1902:C:H5	1.44	0.64
2:AA:1911:U:C5	2:AA:1918:A:N6	2.66	0.64
2:AA:191:A:C2	2:AA:192:C:C2	2.86	0.64
2:AA:1935:G:O2'	2:AA:1937:A:H2	1.79	0.64
2:AA:2091:U:O4	2:AA:2092:U:C6	2.50	0.64
2:AA:2445:G:O2'	2:AA:2446:G:H5'	1.97	0.64
2:AA:2507:C:C2	2:AA:2583:G:N3	2.65	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2570:G:C5'	2:AA:2571:C:OP2	2.45	0.64
2:AA:2688:U:N3	2:AA:2719:G:H2'	2.12	0.64
2:AA:350:U:C2'	2:AA:350:U:O2	2.45	0.64
2:AA:610:C:H2'	2:AA:611:C:H6	1.63	0.64
2:AA:673:C:H5'	6:AF:82:GLN:NE2	2.12	0.64
2:AA:830:G:O6	2:AA:2446:G:O4'	2.16	0.64
1:AB:32:C:C4	1:AB:51:G:N1	2.65	0.64
5:AE:175:ASP:CA	5:AE:178:LEU:HG	2.24	0.64
5:AE:76:PRO:O	5:AE:188:ALA:HA	1.98	0.64
6:AF:144:PHE:CE2	6:AF:156:LEU:HD22	2.31	0.64
9:AJ:71:ILE:O	9:AJ:75:LYS:HG3	1.97	0.64
12:AM:42:GLU:CA	12:AM:132:LEU:O	2.45	0.64
2:AA:1020:A:H1'	12:AM:49:ARG:NE	2.12	0.64
13:AN:66:LYS:HE3	13:AN:82:ASN:CG	2.18	0.64
14:AO:62:ALA:O	14:AO:107:LYS:HG3	1.97	0.64
16:AQ:19:ASP:CB	16:AQ:22:GLN:HE21	2.08	0.64
20:AU:27:LEU:HB3	20:AU:98:VAL:C	2.18	0.64
21:AV:103:ARG:HB2	21:AV:141:MET:CE	2.28	0.64
34:BA:1128:C:C2	34:BA:1146:A:N6	2.65	0.64
34:BA:1413:A:H2'	34:BA:1414:U:O5'	1.96	0.64
34:BA:1433:A:H2'	34:BA:1434:A:O4'	1.97	0.64
34:BA:1493:A:O2'	34:BA:1494:G:O5'	2.15	0.64
34:BA:383:A:H2'	34:BA:384:G:H5'	1.78	0.64
34:BA:523:A:C8	34:BA:523:A:O5'	2.51	0.64
34:BA:521:G:C5	34:BA:529:G:N2	2.65	0.64
34:BA:57:G:N2	34:BA:388:G:C6	2.65	0.64
34:BA:706:A:O2'	34:BA:707:C:H5'	1.97	0.64
34:BA:695:A:H2	34:BA:787:A:H4'	1.63	0.64
34:BA:829:G:H4'	37:BE:26:PRO:CG	2.26	0.64
34:BA:880:C:HO2'	34:BA:881:G:H5'	1.62	0.64
34:BA:949:A:N3	34:BA:971:G:O6	2.30	0.64
35:BB:19:G:C3'	35:BB:20:G:C8	2.80	0.64
38:BF:13:GLY:O	38:BF:14:ILE:CD1	2.45	0.64
34:BA:598:U:H4'	43:BK:94:TYR:CD2	2.33	0.64
43:BK:95:VAL:HG13	43:BK:133:LEU:HD11	1.77	0.64
46:BN:19:ALA:HB3	46:BN:82:VAL:HG22	1.77	0.64
49:BQ:15:LYS:O	49:BQ:16:PHE:CG	2.50	0.64
50:BR:36:ILE:CG2	50:BR:37:ASN:N	2.61	0.64
52:BT:5:VAL:HG22	52:BT:60:ILE:HA	1.80	0.64
52:BT:7:THR:CG2	52:BT:8:GLY:N	2.60	0.64
55:BW:50:GLU:HA	55:BW:99:LEU:HB2	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:41:U:C5'	35:BB:41:U:H6	2.10	0.64
10:AK:132:LYS:O	10:AK:133:LEU:HD23	1.98	0.64
35:BB:11:C:N3	35:BB:12:U:C5	2.65	0.64
2:AA:1482:U:C6	2:AA:1482:U:C3'	2.64	0.64
36:B1:34:U:H2'	36:B1:35:C:C6	2.32	0.64
3:AC:51:PRO:HG3	3:AC:167:LYS:O	1.98	0.64
24:A0:105:ARG:C	24:A0:107:ASP:H	2.00	0.64
26:A2:35:LEU:HD23	26:A2:36:LYS:H	1.63	0.64
26:A2:72:ARG:O	26:A2:88:GLN:HG2	1.97	0.64
26:A2:69:ILE:HG23	26:A2:89:ASN:O	1.98	0.64
27:A3:40:GLN:HA	27:A3:69:PHE:CE1	2.32	0.64
29:A5:10:LYS:HB2	29:A5:10:LYS:HZ3	1.62	0.64
30:A6:42:PRO:HB2	30:A6:44:ALA:HB3	1.79	0.64
30:A6:11:LYS:NZ	32:A8:35:GLY:CA	2.60	0.64
2:AA:1091:G:H1	2:AA:1100:C:N4	1.96	0.64
2:AA:1183:G:H3'	2:AA:1183:G:P	2.37	0.64
2:AA:1326:U:O4'	2:AA:2010:G:N3	2.31	0.64
2:AA:1475:G:C2'	2:AA:1476:C:H5'	2.23	0.64
2:AA:1534:G:N2	2:AA:1536:A:C8	2.65	0.64
2:AA:1580:A:H2'	2:AA:1581:G:C8	2.33	0.64
2:AA:1604:C:H2'	2:AA:1604:C:O2	1.96	0.64
2:AA:161:U:H6	2:AA:161:U:O5'	1.81	0.64
2:AA:1625:C:C2'	2:AA:1626:G:C5'	2.76	0.64
2:AA:164:U:O2	2:AA:164:U:H2'	1.96	0.64
2:AA:1807:G:H21	2:AA:1809:A:H4'	1.63	0.64
2:AA:2007:C:N4	2:AA:2008:C:C5	2.65	0.64
2:AA:2012:G:O3'	18:AS:96:ILE:HD13	1.97	0.64
2:AA:2091:U:O4	2:AA:2092:U:C5	2.50	0.64
2:AA:2195:C:H2'	2:AA:2196:C:C4'	2.27	0.64
2:AA:2285:C:C4'	2:AA:2288:A:N6	2.60	0.64
2:AA:2613:U:O2'	2:AA:2614:A:OP1	2.11	0.64
2:AA:2679:A:H5''	5:AE:261:ARG:CD	2.28	0.64
2:AA:2825:C:C4	2:AA:2826:A:N7	2.65	0.64
2:AA:454:A:O2'	2:AA:455:C:C2	2.50	0.64
2:AA:13:A:N7	2:AA:525:U:C4	2.66	0.64
2:AA:564:C:O4'	25:A1:37:GLN:OE1	2.16	0.64
2:AA:777:A:C2'	2:AA:778:G:H5'	2.27	0.64
2:AA:826:U:C2	2:AA:832:G:N2	2.65	0.64
2:AA:914:C:O5'	2:AA:914:C:H6	1.80	0.64
2:AA:957:A:O2'	2:AA:958:U:OP1	2.14	0.64
2:AA:974(A):C:C1'	2:AA:989:G:H22	2.11	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:39:GLU:O	3:AC:178:ALA:HB2	1.96	0.64
4:AD:173:VAL:O	4:AD:175:LEU:CD2	2.46	0.64
9:AJ:48:ALA:O	9:AJ:51:ALA:HB3	1.97	0.64
13:AN:85:VAL:CG2	13:AN:114:ILE:HD11	2.27	0.64
15:AP:12:PRO:HB3	15:AP:20:ILE:CD1	2.24	0.64
15:AP:74:ASN:ND2	15:AP:75:SER:H	1.95	0.64
16:AQ:32:PRO:HD2	16:AQ:101:VAL:HG12	1.80	0.64
16:AQ:24:LEU:HA	16:AQ:27:LEU:HB2	1.77	0.64
16:AQ:74:PRO:O	16:AQ:75:THR:C	2.36	0.64
19:AT:47:VAL:HB	19:AT:69:SER:CB	2.28	0.64
34:BA:113:G:N7	34:BA:114:U:H5	1.94	0.64
34:BA:1375:A:C2	34:BA:1376:U:N1	2.66	0.64
34:BA:1404:C:H2'	34:BA:1405:G:H8	1.62	0.64
34:BA:155:C:O2'	34:BA:156:G:H5'	1.98	0.64
34:BA:15:G:H4'	40:BH:24:ARG:HH22	1.63	0.64
34:BA:308:C:O2	34:BA:309:G:O4'	2.16	0.64
34:BA:627:G:N3	34:BA:628:G:C8	2.65	0.64
34:BA:905:U:O4	34:BA:906:G:N3	2.30	0.64
34:BA:918:A:O2'	34:BA:919:A:O5'	2.13	0.64
34:BA:967:C:O5'	34:BA:967:C:H6	1.80	0.64
34:BA:978:A:C2	34:BA:1319:A:N3	2.66	0.64
35:BB:18:G:H2'	35:BB:19:G:O5'	1.98	0.64
37:BE:175:ARG:HD3	37:BE:179:LYS:NZ	2.12	0.64
37:BE:57:PHE:CD1	37:BE:199:TYR:HE1	2.15	0.64
38:BF:21:ARG:NH2	38:BF:54:ARG:HH22	1.94	0.64
38:BF:67:THR:HG22	38:BF:69:HIS:CE1	2.32	0.64
39:BG:101:LEU:CB	39:BG:138:TYR:HB3	2.26	0.64
34:BA:620:C:C2	39:BG:135:LEU:CD1	2.81	0.64
39:BG:175:SER:O	39:BG:183:GLY:HA2	1.98	0.64
34:BA:8:A:N6	39:BG:209:ARG:CB	2.60	0.64
40:BH:62:ALA:O	40:BH:66:MET:SD	2.55	0.64
43:BK:33:GLU:O	43:BK:36:LEU:HG	1.97	0.64
44:BL:5:TYR:HD2	44:BL:6:GLY:H	1.43	0.64
46:BN:21:ILE:HD13	46:BN:95:ILE:HG12	1.80	0.64
48:BP:77:ASN:HD22	48:BP:80:ARG:NH1	1.96	0.64
54:BV:30:LEU:HD22	54:BV:31:ILE:H	1.61	0.64
54:BV:38:SER:O	54:BV:70:LYS:HG2	1.97	0.64
55:BW:91:LEU:O	55:BW:93:GLU:N	2.31	0.64
10:AK:88:ARG:HB3	10:AK:122:ARG:HG2	1.79	0.64
2:AA:1511:A:H3'	2:AA:1512:G:H5''	1.78	0.64
6:AF:61:PHE:C	6:AF:65:ARG:CZ	2.65	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1283:G:H22	2:AA:1285:G:H2'	1.61	0.64
2:AA:2246:G:HO2'	2:AA:2247:A:H8	1.45	0.64
5:AE:65:MET:SD	5:AE:65:MET:O	2.55	0.64
25:A1:31:GLN:O	25:A1:35:ALA:HB2	1.97	0.64
26:A2:63:HIS:N	26:A2:63:HIS:ND1	2.46	0.64
26:A2:61:VAL:CG1	26:A2:95:ILE:HG22	2.17	0.64
28:A4:49:PHE:H	28:A4:49:PHE:HD1	1.46	0.64
2:AA:1022:G:O5'	12:AM:52:GLN:OE1	2.15	0.64
2:AA:1024:G:OP2	2:AA:1025:G:N2	2.31	0.64
2:AA:1071:G:H2'	2:AA:1072:C:C5'	2.28	0.64
2:AA:1069:A:C2	2:AA:1096:A:H5'	2.33	0.64
2:AA:1166:C:C2	2:AA:1183:G:N2	2.66	0.64
2:AA:1203:G:H1'	2:AA:1241:A:C2	2.32	0.64
2:AA:1212:G:O2'	2:AA:1213:A:C8	2.50	0.64
2:AA:123:G:H1	2:AA:128:C:N4	1.91	0.64
2:AA:1339:G:H5'	19:AT:13:LYS:HE3	1.80	0.64
2:AA:1392:A:C5	2:AA:1393:A:N6	2.65	0.64
2:AA:1398:C:H2'	2:AA:1399:C:H6	1.63	0.64
2:AA:1421:G:C2	2:AA:1422:G:C8	2.86	0.64
2:AA:1431:U:C2	2:AA:1432:C:C6	2.86	0.64
2:AA:154:G:C4	2:AA:155:C:C1'	2.81	0.64
2:AA:1566:A:C6	4:AD:212:HIS:ND1	2.65	0.64
2:AA:1668:A:C6	2:AA:1674:G:C4	2.86	0.64
2:AA:15:G:C2'	2:AA:16:G:H5'	2.26	0.64
2:AA:1807:G:H21	2:AA:1809:A:C5'	2.10	0.64
2:AA:1819:A:OP1	4:AD:154:VAL:CA	2.43	0.64
2:AA:184:C:O2'	2:AA:217:G:N2	2.30	0.64
2:AA:1934:C:H4'	2:AA:1974:C:H4'	1.80	0.64
2:AA:1939:U:O2	2:AA:1939:U:O4'	2.10	0.64
2:AA:1769:G:C2	2:AA:1984:G:C4	2.85	0.64
2:AA:2053:G:H1'	5:AE:245:ARG:HG2	1.80	0.64
2:AA:2213:U:O2	2:AA:2213:U:C2'	2.46	0.64
2:AA:2305:A:H3'	2:AA:2306:C:C5'	2.18	0.64
2:AA:234:C:H42	2:AA:430:G:N2	1.95	0.64
2:AA:2385:C:O2'	2:AA:2386:C:O5'	2.09	0.64
2:AA:237:C:O2'	2:AA:238:C:C5'	2.46	0.64
2:AA:227:A:N6	2:AA:2407:G:O4'	2.30	0.64
2:AA:2519:U:C4	2:AA:2542:A:N7	2.66	0.64
2:AA:2051:A:C5	2:AA:2614:A:N7	2.65	0.64
2:AA:2644:G:H1	2:AA:2645:G:N2	1.96	0.64
2:AA:265:A:H1'	2:AA:266:G:O4'	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2691:C:H3'	2:AA:2691:C:H6	1.62	0.64
2:AA:273:G:N2	2:AA:364:C:N3	2.40	0.64
2:AA:2793:G:H1	2:AA:2803:C:N4	1.94	0.64
2:AA:2841:C:C2'	2:AA:2842:G:H8	2.07	0.64
2:AA:2892:A:H2'	2:AA:2893:G:N9	2.12	0.64
2:AA:313:C:C4	2:AA:314:A:N7	2.66	0.64
2:AA:359:A:C2	2:AA:361:G:N2	2.65	0.64
2:AA:397:G:P	28:A4:10:VAL:HG11	2.37	0.64
2:AA:685:A:C2'	2:AA:686:G:OP2	2.44	0.64
2:AA:70:G:H4'	2:AA:71:A:H5'	1.80	0.64
2:AA:973:A:C4	26:A2:80:TYR:HA	2.32	0.64
3:AC:131:LEU:O	3:AC:136:LEU:N	2.30	0.64
3:AC:123:VAL:HG13	3:AC:138:PRO:HD2	1.80	0.64
3:AC:75:LEU:CD1	3:AC:99:ILE:HD13	2.26	0.64
5:AE:246:VAL:HG12	5:AE:247:ARG:O	1.98	0.64
5:AE:45:LYS:HZ1	5:AE:302:GLY:C	2.01	0.64
6:AF:197:SER:N	6:AF:236:THR:OG1	2.31	0.64
7:AG:103:ASN:C	7:AG:104:PHE:CD1	2.71	0.64
7:AG:88:LEU:N	7:AG:89:PRO:HD2	2.12	0.64
8:AH:37:HIS:CD2	8:AH:63:LEU:HD21	2.32	0.64
8:AH:25:VAL:HG11	8:AH:74:MET:HB3	1.78	0.64
11:AL:109:ALA:CB	11:AL:125:MET:SD	2.86	0.64
12:AM:44:ALA:HB3	12:AM:132:LEU:CB	2.27	0.64
12:AM:76:ASP:N	12:AM:76:ASP:OD2	2.27	0.64
13:AN:63:VAL:HG13	13:AN:106:LEU:HD11	1.78	0.64
19:AT:4:VAL:HB	19:AT:40:ALA:HB1	1.80	0.64
19:AT:55:GLN:HE21	19:AT:57:THR:HG23	1.62	0.64
20:AU:10:SER:O	20:AU:14:ALA:HB3	1.98	0.64
21:AV:149:ALA:HA	21:AV:152:ILE:CD1	2.28	0.64
21:AV:34:LEU:HD21	21:AV:83:PHE:CE1	2.33	0.64
36:B1:11:U:H2'	36:B1:12:U:H5	1.63	0.64
34:BA:1007:C:C4	34:BA:1022:G:C2	2.86	0.64
34:BA:104:G:C2	34:BA:105:G:C8	2.86	0.64
34:BA:1269:A:C8	34:BA:1270:C:C1'	2.81	0.64
34:BA:1269:A:H2'	34:BA:1270:C:O4'	1.97	0.64
34:BA:1347:G:O2'	34:BA:1348:U:P	2.55	0.64
34:BA:1443:G:O5'	34:BA:1446:A:H5'	1.97	0.64
34:BA:1504:G:OP1	34:BA:1507:A:H4'	1.96	0.64
34:BA:123:C:O2'	34:BA:290:C:O2	2.12	0.64
34:BA:762:C:C2	34:BA:763:G:N7	2.66	0.64
34:BA:775:G:H2'	34:BA:776:G:C8	2.29	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:792:A:N3	34:BA:794:A:N6	2.45	0.64
34:BA:8:A:H1'	40:BH:102:ALA:C	2.17	0.64
34:BA:986:A:H2'	34:BA:987:G:H8	1.62	0.64
35:BC:5:A:O2'	35:BC:6:U:H5'	1.97	0.64
35:BC:15:G:N2	35:BC:60:C:O2	2.29	0.64
35:BC:70:C:O2	35:BC:71:G:C8	2.51	0.64
38:BF:191:THR:HG21	38:BF:196:LEU:HD11	1.79	0.64
40:BH:105:VAL:HG12	40:BH:106:PRO:N	2.11	0.64
40:BH:75:THR:HA	40:BH:115:VAL:HG12	1.79	0.64
41:BI:75:LEU:CD2	41:BI:79:LEU:HD21	2.27	0.64
41:BI:84:ASN:HA	41:BI:86:ARG:HH21	1.61	0.64
42:BJ:139:GLU:HA	42:BJ:142:GLU:OE2	1.97	0.64
42:BJ:147:ALA:O	42:BJ:149:ARG:N	2.30	0.64
43:BK:111:ILE:HD12	43:BK:135:CYS:C	2.17	0.64
44:BL:23:ASN:HA	44:BL:57:GLY:O	1.97	0.64
45:BM:30:SER:CB	45:BM:80:LYS:HG3	2.27	0.64
47:BO:24:VAL:CG1	47:BO:26:ALA:HB2	2.28	0.64
47:BO:88:GLY:HA3	47:BO:99:HIS:HE1	1.61	0.64
52:BT:22:LEU:HD12	52:BT:23:VAL:H	1.63	0.64
53:BU:58:LEU:HB3	53:BU:62:GLU:CG	2.28	0.64
34:BA:1219:U:O2'	54:BV:34:TRP:HB3	1.97	0.64
55:BW:50:GLU:CB	55:BW:99:LEU:HD12	2.27	0.64
35:BB:29:A:N6	35:BB:42:G:C6	2.66	0.64
2:AA:1508:A:H5''	2:AA:1510:A:N7	2.12	0.64
36:B1:6:U:C5'	36:B1:7:A:H5'	2.24	0.64
37:BE:28:PHE:CD2	37:BE:190:THR:HA	2.33	0.64
2:AA:2246:G:C4	2:AA:2426:A:C2	2.85	0.64
25:A1:47:TYR:O	25:A1:50:ARG:HB2	1.97	0.64
28:A4:35:VAL:HG12	28:A4:36:TRP:N	2.12	0.64
29:A5:45:ILE:HG23	29:A5:52:TYR:CD1	2.33	0.64
30:A6:17:GLY:O	30:A6:18:THR:HG22	1.96	0.64
32:A8:23:MET:HG2	32:A8:46:LYS:HB3	1.78	0.64
32:A8:22:VAL:O	32:A8:48:PHE:CD2	2.51	0.64
2:AA:1020:A:C4'	12:AM:49:ARG:NH2	2.60	0.64
2:AA:1025:G:H8	2:AA:1134:G:O2'	1.80	0.64
2:AA:1062:G:N3	2:AA:1062:G:H2'	2.12	0.64
2:AA:1076:C:HO2'	11:AL:91:GLU:CB	2.00	0.64
2:AA:1062:G:O6	2:AA:1077:A:C5	2.51	0.64
2:AA:1087:G:N2	2:AA:1103:A:H3'	2.12	0.64
2:AA:1799:G:O2'	2:AA:1800:C:O5'	2.15	0.64
2:AA:1858:G:O2'	2:AA:1859:A:H5'	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2022:U:H1'	2:AA:2034:U:O2	1.97	0.64
2:AA:2061:G:N7	2:AA:2501:C:H1'	2.12	0.64
2:AA:2082:A:N3	2:AA:2082:A:H2'	2.13	0.64
2:AA:2081:C:O2'	2:AA:2082:A:H5'	1.97	0.64
2:AA:2136:C:H6	2:AA:2136:C:O5'	1.81	0.64
2:AA:2469:A:H61	2:AA:2481:G:H1'	1.63	0.64
2:AA:2509:G:C2	2:AA:2510:C:C1'	2.80	0.64
2:AA:2573:C:OP1	2:AA:2575:C:OP2	2.15	0.64
2:AA:270(C):C:O2'	2:AA:270(D):C:H5'	1.97	0.64
2:AA:270(O):U:C5'	2:AA:270(P):C:C5	2.68	0.64
2:AA:2740:A:N6	2:AA:2741:A:C6	2.66	0.64
2:AA:2808:U:O2'	2:AA:2810:A:OP1	2.15	0.64
2:AA:2886:G:N2	2:AA:2887:U:C2	2.65	0.64
2:AA:317:G:N2	2:AA:318:C:C2	2.66	0.64
2:AA:452:G:OP1	6:AF:55:ARG:NH2	2.30	0.64
2:AA:487:C:N3	2:AA:493:G:N2	2.44	0.64
2:AA:565:C:N3	2:AA:566:U:N3	2.45	0.64
2:AA:599:G:N1	2:AA:658:C:N4	2.10	0.64
2:AA:800:A:C8	2:AA:802:A:O4'	2.51	0.64
3:AC:22:ILE:HG13	3:AC:228:SER:O	1.97	0.64
3:AC:36:LYS:CE	3:AC:37:PHE:H	2.09	0.64
4:AD:85:ASN:HB2	4:AD:86:ARG:HE	1.63	0.64
2:AA:617:G:H5'	6:AF:219:ASN:ND2	2.13	0.64
2:AA:442:G:N2	6:AF:46:TYR:CZ	2.66	0.64
9:AI:57:THR:HG21	9:AJ:110:GLU:HG3	1.79	0.64
10:AK:19:LYS:HE3	10:AK:20:ASN:N	2.13	0.64
11:AL:112:LYS:C	11:AL:114:PRO:HD2	2.18	0.64
15:AP:46:VAL:HG13	15:AP:156:ASN:HD22	1.63	0.64
15:AP:31:PHE:HZ	15:AP:88:PHE:CD2	2.15	0.64
15:AP:89:PRO:C	15:AP:90:PHE:HD1	2.01	0.64
20:AU:11:GLN:HG3	20:AU:21:LYS:HZ1	1.60	0.64
21:AV:45:GLN:O	21:AV:46:GLN:HB3	1.97	0.64
22:AW:43:PRO:CB	22:AW:46:ILE:HG12	2.28	0.64
23:AX:16:PRO:HB2	23:AX:19:GLN:CG	2.28	0.64
34:BA:994:A:N1	34:BA:1047:G:H4'	2.12	0.64
34:BA:1263:C:N3	34:BA:1272:G:N2	2.38	0.64
34:BA:1451:A:H5''	34:BA:1452:C:H41	1.60	0.64
34:BA:266:G:H22	34:BA:270:A:H62	1.44	0.64
34:BA:291:C:O2	34:BA:291:C:H2'	1.95	0.64
34:BA:301:G:N2	34:BA:302:G:H1'	2.12	0.64
34:BA:36:C:O2	34:BA:548:G:N1	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:499:A:C8	34:BA:547:A:N6	2.66	0.64
34:BA:502:G:O2'	34:BA:503:C:H5'	1.96	0.64
34:BA:674:G:H2'	34:BA:675:A:C8	2.32	0.64
34:BA:790:A:N6	34:BA:791:G:C6	2.66	0.64
37:BE:56:ARG:CB	37:BE:56:ARG:NH1	2.61	0.64
40:BH:100:VAL:C	40:BH:101:ILE:HD13	2.18	0.64
34:BA:8:A:O4'	40:BH:102:ALA:HA	1.97	0.64
41:BI:26:ILE:O	41:BI:30:LEU:HD12	1.96	0.64
41:BI:85:VAL:HG12	41:BI:88:VAL:HG23	1.80	0.64
42:BJ:115:ARG:HB2	42:BJ:118:VAL:HG21	1.79	0.64
44:BL:48:GLU:O	44:BL:51:ARG:N	2.30	0.64
45:BM:6:ILE:HD11	45:BM:23:ILE:HG21	1.79	0.64
48:BP:2:ALA:C	48:BP:4:ILE:N	2.51	0.64
48:BP:91:ARG:CB	48:BP:98:VAL:HG13	2.27	0.64
50:BR:66:LEU:N	50:BR:66:LEU:HD22	2.12	0.64
52:BT:58:GLU:CD	52:BT:75:ARG:HG2	2.18	0.64
46:BN:108:ILE:O	53:BU:87:ARG:O	2.15	0.64
34:BA:1314:C:N4	54:BV:4:SER:HB2	2.06	0.64
25:A1:73:GLY:O	25:A1:74:MET:CG	2.45	0.64
26:A2:10:LYS:O	26:A2:12:TYR:HB2	1.97	0.64
26:A2:39:PHE:CZ	26:A2:41:GLY:O	2.50	0.64
2:AA:566:U:C5'	26:A2:81:ARG:NH2	2.60	0.64
26:A2:65:ARG:O	26:A2:93:ILE:HA	1.97	0.64
2:AA:2271:G:OP1	27:A3:17:ASN:HA	1.97	0.64
2:AA:1153:C:O2	2:AA:1153:C:H2'	1.97	0.64
2:AA:1202:C:C2'	2:AA:1202:C:O2	2.46	0.64
2:AA:1304:C:O2	2:AA:1304:C:H2'	1.97	0.64
2:AA:1412:A:H2'	2:AA:1413:G:C8	2.33	0.64
2:AA:1472:A:N7	2:AA:1474:C:N4	2.44	0.64
2:AA:1449:A:C5'	2:AA:1528:A:C2	2.80	0.64
2:AA:1543:A:H2'	2:AA:1544:C:O4'	1.97	0.64
2:AA:1637:A:H4'	2:AA:2711:A:HO2'	1.62	0.64
2:AA:1299:G:N2	2:AA:1641:A:H62	1.95	0.64
2:AA:1815:A:HO2'	2:AA:1816:G:P	2.20	0.64
2:AA:2018:G:P	2:AA:2018:G:H3'	2.36	0.64
2:AA:2241:A:H2'	2:AA:2242:G:C8	2.33	0.64
2:AA:2250:G:C8	2:AA:2250:G:C3'	2.80	0.64
2:AA:2290:G:C6	2:AA:2291:U:N3	2.65	0.64
2:AA:834:C:O2'	2:AA:2358:G:N3	2.19	0.64
2:AA:2532:G:H2'	2:AA:2533:A:O4'	1.97	0.64
2:AA:24:G:H2'	2:AA:25:U:O4'	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:265:A:O2'	2:AA:266:G:O4'	2.08	0.64
2:AA:270(Z):U:O2'	2:AA:271(A):C:OP1	2.12	0.64
2:AA:2815:C:C2	2:AA:2816:C:C6	2.86	0.64
2:AA:295:G:N1	2:AA:344:G:C6	2.66	0.64
2:AA:312:G:O4'	2:AA:312:G:OP1	2.16	0.64
2:AA:364:C:H2'	2:AA:365:C:H5	1.58	0.64
2:AA:738:G:N3	2:AA:739:G:H1'	2.11	0.64
2:AA:464:U:C1'	2:AA:788:A:N1	2.61	0.64
1:AB:73:A:H2'	1:AB:74:U:H6	1.62	0.64
4:AD:140:VAL:HG13	4:AD:191:VAL:CG1	2.27	0.64
4:AD:196:ASN:OD1	4:AD:196:ASN:O	2.16	0.64
4:AD:235:PRO:O	4:AD:236:PHE:CB	2.45	0.64
4:AD:77:VAL:O	4:AD:113:MET:HG3	1.98	0.64
5:AE:231:TRP:O	5:AE:232:ARG:CG	2.44	0.64
6:AF:197:SER:HB2	6:AF:238:SER:C	2.18	0.64
8:AH:86:LEU:HD13	8:AH:86:LEU:O	1.97	0.64
9:AI:13:LEU:HD22	9:AI:17:GLU:HB3	1.79	0.64
11:AL:79:LEU:CD2	11:AL:137:ILE:HG21	2.26	0.64
19:AT:7:HIS:H	19:AT:27:ALA:HB3	1.61	0.64
20:AU:102:ASP:C	20:AU:108:ARG:HD3	2.18	0.64
20:AU:19:ARG:O	20:AU:22:GLN:CB	2.45	0.64
21:AV:138:VAL:HG23	21:AV:140:LYS:HD2	1.80	0.64
21:AV:141:MET:C	21:AV:171:VAL:HG11	2.18	0.64
22:AW:33:VAL:O	22:AW:36:ALA:HB3	1.98	0.64
23:AX:7:LYS:HG3	23:AX:33:GLN:O	1.97	0.64
34:BA:1124:G:OP1	45:BM:35:SER:OG	2.16	0.64
34:BA:123:C:OP1	34:BA:312:C:H5'	1.98	0.64
34:BA:1350:A:OP2	44:BL:118:LYS:CD	2.46	0.64
34:BA:1287:A:N6	34:BA:1371:G:O4'	2.30	0.64
34:BA:195:A:H4'	55:BW:68:LYS:HZ1	1.60	0.64
34:BA:421:U:O2	38:BF:127:ARG:CZ	2.46	0.64
34:BA:517:G:H22	34:BA:533:A:P	2.20	0.64
34:BA:627:G:N3	34:BA:628:G:N7	2.45	0.64
34:BA:745:C:C5'	34:BA:851:G:N3	2.50	0.64
35:BB:8:U:C4	35:BB:13:C:C4	2.85	0.64
35:BC:28:C:H6	35:BC:28:C:O5'	1.81	0.64
35:BC:33:U:H2'	35:BC:35:A:OP2	1.98	0.64
37:BE:175:ARG:O	37:BE:176:GLU:C	2.34	0.64
37:BE:50:GLU:OE2	37:BE:200:ILE:HB	1.97	0.64
38:BF:88:ARG:HE	38:BF:101:LEU:H	1.42	0.64
39:BG:129:ASN:ND2	39:BG:144:ASP:HB3	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BG:62:GLN:HE21	39:BG:62:GLN:HA	1.61	0.64
39:BG:92:VAL:HG12	39:BG:96:LEU:HD13	1.79	0.64
34:BA:1079:G:O3'	40:BH:14:ARG:NH2	2.30	0.64
42:BJ:64:GLN:O	42:BJ:68:ASN:ND2	2.29	0.64
42:BJ:99:LEU:O	42:BJ:103:TRP:HB2	1.97	0.64
43:BK:29:SER:O	43:BK:33:GLU:HB2	1.97	0.64
44:BL:23:ASN:ND2	44:BL:24:GLY:N	2.45	0.64
47:BO:30:ALA:HB1	47:BO:31:PRO:HD2	1.78	0.64
34:BA:363:A:N7	47:BO:31:PRO:HD2	2.12	0.64
47:BO:79:GLU:OE1	47:BO:80:HIS:HE1	1.80	0.64
48:BP:22:ILE:CB	48:BP:25:ILE:HG13	2.12	0.64
48:BP:37:THR:HG21	48:BP:56:LEU:CD2	2.28	0.64
53:BU:43:PHE:C	53:BU:51:LEU:HD13	2.16	0.64
54:BV:67:VAL:O	54:BV:69:HIS:N	2.30	0.64
55:BW:104:LEU:O	55:BW:106:ALA:N	2.31	0.64
55:BW:83:ARG:O	55:BW:86:ARG:HG2	1.96	0.64
56:BX:20:LYS:HG2	56:BX:21:TYR:H	1.62	0.64
2:AA:257:A:O5'	2:AA:257:A:C8	2.50	0.64
40:BH:82:VAL:HG21	40:BH:137:GLU:HB3	1.79	0.64
25:A1:106:PHE:O	25:A1:107:LYS:C	2.35	0.64
28:A4:57:ASP:HA	28:A4:61:LYS:HE2	1.80	0.64
2:AA:1238:G:C6	2:AA:1239:G:C8	2.85	0.64
2:AA:1342:A:C2	2:AA:1397:U:C6	2.86	0.64
2:AA:1523:U:H2'	2:AA:1524:G:O4'	1.98	0.64
2:AA:1529:A:H2'	2:AA:1530:G:H5'	1.79	0.64
2:AA:1529:A:N3	2:AA:1530:G:H4'	2.13	0.64
2:AA:1592:C:H2'	2:AA:1593:G:H8	1.57	0.64
2:AA:1609:A:C5	2:AA:1616:A:N3	2.66	0.64
2:AA:1625:C:H2'	2:AA:1626:G:C5'	2.28	0.64
2:AA:1669:A:C2'	2:AA:1670:C:C5'	2.73	0.64
2:AA:1676:A:O2'	2:AA:1677:A:C5'	2.46	0.64
2:AA:1697:G:C4'	2:AA:1698:A:H5'	2.27	0.64
2:AA:1807:G:C2	2:AA:1809:A:OP2	2.51	0.64
2:AA:1832:C:N4	2:AA:1833:U:O4	2.30	0.64
2:AA:2110:G:O2'	2:AA:2111:C:OP1	2.16	0.64
2:AA:2110:G:H2'	2:AA:2111:C:C6	2.33	0.64
2:AA:2115:G:H2'	2:AA:2115:G:N3	2.12	0.64
2:AA:2122:U:O2'	3:AC:166:ASP:CB	2.42	0.64
2:AA:2132:U:O2	2:AA:2133:G:H3'	1.98	0.64
2:AA:2144:U:H5'	2:AA:2146:C:N3	2.13	0.64
2:AA:224:G:N2	2:AA:225:A:H1'	2.13	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2423:U:H2'	2:AA:2423:U:O2	1.96	0.64
2:AA:2468:G:N2	2:AA:2481:G:C1'	2.61	0.64
2:AA:2511:U:O4	2:AA:2575:C:N3	2.30	0.64
2:AA:747:U:C4	2:AA:2613:U:C5	2.85	0.64
2:AA:2819:G:H2'	2:AA:2821:A:N7	2.13	0.64
2:AA:288:C:H6	2:AA:288:C:C5'	2.11	0.64
2:AA:291:C:C4	2:AA:349:G:C2	2.86	0.64
2:AA:357:A:C2'	2:AA:358:U:H5''	2.27	0.64
2:AA:374:A:C4	2:AA:375:C:C6	2.85	0.64
2:AA:445:C:C2'	25:A1:3:ARG:HH21	2.11	0.64
2:AA:452:G:C2	2:AA:458:G:N2	2.65	0.64
2:AA:72:U:O2'	22:AW:54:ALA:HB2	1.98	0.64
2:AA:752:A:O2'	2:AA:753:C:OP2	2.16	0.64
2:AA:752:A:O2'	2:AA:753:C:P	2.56	0.64
1:AB:97:G:C4	1:AB:98:G:C8	2.86	0.64
5:AE:200:ASP:C	5:AE:266:LYS:HD2	2.17	0.64
5:AE:222:ARG:N	5:AE:222:ARG:CD	2.56	0.64
7:AG:13:MET:HA	7:AG:13:MET:CE	2.27	0.64
8:AH:103:VAL:C	8:AH:104:LEU:HD12	2.17	0.64
9:AJ:22:VAL:HG22	9:AJ:41:ALA:HB3	1.78	0.64
9:AJ:38:ALA:O	9:AJ:41:ALA:HB3	1.98	0.64
14:AO:120:LEU:O	14:AO:140:VAL:HB	1.97	0.64
19:AT:13:LYS:O	19:AT:14:ALA:C	2.35	0.64
22:AW:20:LEU:CA	22:AW:23:LEU:HG	2.28	0.64
23:AX:55:ARG:HB2	23:AX:55:ARG:CZ	2.27	0.64
34:BA:1465:C:O2	34:BA:1465:C:H2'	1.97	0.64
34:BA:146:G:H1	34:BA:176:C:H42	1.45	0.64
34:BA:1539:C:C2'	34:BA:1540:U:H5'	2.27	0.64
34:BA:118:U:N3	34:BA:289:G:H4'	2.09	0.64
34:BA:296:U:O2'	34:BA:297:G:H5'	1.97	0.64
34:BA:412:A:O2'	34:BA:413:G:H5''	1.97	0.64
34:BA:423:G:H2'	34:BA:424:G:O4'	1.96	0.64
34:BA:459:G:N2	34:BA:462:G:C5	2.65	0.64
34:BA:502:G:H4'	34:BA:550:G:O2'	1.97	0.64
34:BA:694:A:C2'	34:BA:695:A:O5'	2.45	0.64
34:BA:778:G:N3	34:BA:779:C:C6	2.66	0.64
34:BA:836:G:N2	34:BA:837:G:H1'	2.13	0.64
34:BA:946:A:H61	34:BA:1235:U:H3	1.45	0.64
35:BB:34:G:C2	36:B1:66:G:O6	2.50	0.64
35:BB:56:C:C3'	35:BB:56:C:C6	2.80	0.64
35:BB:5:A:H61	35:BB:68:U:H3	1.43	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BC:54:U:H2'	35:BC:55:U:H5'	1.79	0.64
38:BF:51:GLY:O	38:BF:52:LEU:O	2.16	0.64
39:BG:100:ARG:NH2	39:BG:137:SER:HA	2.13	0.64
39:BG:25:ARG:HH21	39:BG:30:LYS:HD3	1.61	0.64
34:BA:15:G:C4'	40:BH:24:ARG:HH22	2.10	0.64
43:BK:101:PRO:O	43:BK:102:ARG:HB2	1.98	0.64
43:BK:38:ILE:N	43:BK:38:ILE:HD13	2.12	0.64
47:BO:76:ASN:HD21	47:BO:107:ALA:HA	1.61	0.64
47:BO:23:LYS:O	47:BO:24:VAL:HG23	1.97	0.64
47:BO:32:PHE:CB	47:BO:84:LEU:HD21	2.19	0.64
48:BP:66:LEU:O	48:BP:70:LEU:CB	2.46	0.64
48:BP:90:LEU:HA	48:BP:93:ARG:HD2	1.80	0.64
51:BS:18:ARG:HD3	51:BS:35:LYS:NZ	2.13	0.64
54:BV:24:ALA:C	54:BV:26:GLY:H	2.00	0.64
55:BW:43:LEU:HB3	55:BW:52:ALA:HB2	1.79	0.64
55:BW:49:ALA:HA	55:BW:92:LEU:HD22	1.80	0.64
35:BB:37:G:H8	35:BB:37:G:OP2	1.77	0.64
1:AB:12:C:C6	27:A3:53:MET:HA	2.32	0.64
10:AK:126:TYR:N	10:AK:126:TYR:HD1	1.96	0.64
2:AA:56:A:H3'	2:AA:57:C:C5	2.32	0.64
24:A0:105:ARG:HB2	24:A0:105:ARG:NH1	2.13	0.64
24:A0:55:ALA:CA	24:A0:80:PHE:CE1	2.73	0.64
29:A5:57:VAL:O	29:A5:58:LEU:HD23	1.97	0.64
31:A7:21:ARG:NH2	31:A7:43:THR:OG1	2.30	0.64
2:AA:85:G:HO2'	2:AA:103:A:H2	1.45	0.64
2:AA:1066:U:H2'	2:AA:1067:A:H5''	1.79	0.64
2:AA:1067:A:C6	2:AA:1068:G:O6	2.51	0.64
2:AA:1124:C:H3'	2:AA:1125:G:H8	1.63	0.64
2:AA:1169:G:N2	2:AA:1181:C:C4	2.65	0.64
2:AA:1555:G:O4'	2:AA:1555:G:OP1	2.14	0.64
2:AA:1434:A:N6	2:AA:1558:A:H61	1.92	0.64
2:AA:1563:G:O2'	2:AA:1564:C:H5'	1.98	0.64
2:AA:1748:G:H2'	2:AA:1749:A:C8	2.33	0.64
2:AA:1753:G:C8	2:AA:1753:G:H3'	2.33	0.64
2:AA:1769:G:HO2'	2:AA:1770:G:C5'	2.11	0.64
2:AA:1774:C:C4	2:AA:1775:U:O4	2.51	0.64
2:AA:1782:C:C2	2:AA:2609:U:C6	2.86	0.64
2:AA:1785:A:C8	2:AA:1785:A:C3'	2.81	0.64
2:AA:1838:C:H2'	2:AA:1898:U:C4	2.33	0.64
2:AA:1980:G:C6	2:AA:1982:C:N4	2.66	0.64
2:AA:198:C:O2	2:AA:198:C:H2'	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2262:U:H5	27:A3:14:ARG:HH22	1.43	0.64
2:AA:242:G:H3'	32:A8:5:LYS:NZ	2.12	0.64
2:AA:2469:A:H2	2:AA:2482:G:H1'	1.63	0.64
2:AA:2484:G:C2	2:AA:2485:G:O4'	2.51	0.64
2:AA:2647:U:H1'	2:AA:2674:G:N2	2.12	0.64
2:AA:2793:G:H2'	2:AA:2794:C:C6	2.33	0.64
2:AA:2872:G:N2	2:AA:2873:A:N1	2.46	0.64
2:AA:294:A:N1	2:AA:346:A:N1	2.45	0.64
2:AA:328:U:O2'	20:AU:94:SER:OG	2.13	0.64
2:AA:769:G:C6	2:AA:770:G:N7	2.65	0.64
2:AA:782:A:H1'	2:AA:783:A:H62	1.63	0.64
2:AA:844:C:C6	2:AA:845:G:N7	2.65	0.64
2:AA:908:C:O2	2:AA:908:C:H2'	1.98	0.64
2:AA:959:A:N1	2:AA:960:A:N6	2.46	0.64
2:AA:970:C:O2	2:AA:971:C:H6	1.80	0.64
2:AA:971:C:C2'	2:AA:971:C:O2	2.44	0.64
1:AB:99:A:C6	1:AB:100:G:C6	2.85	0.64
3:AC:10:LEU:HD11	3:AC:32:LEU:O	1.98	0.64
2:AA:2129:C:OP1	3:AC:37:PHE:CZ	2.50	0.64
5:AE:222:ARG:NE	5:AE:232:ARG:C	2.51	0.64
6:AF:193:LEU:HD13	6:AF:223:LEU:HB2	1.80	0.64
8:AH:37:HIS:CE1	8:AH:67:THR:HG21	2.33	0.64
8:AH:41:THR:OG1	8:AH:54:PRO:HB3	1.97	0.64
8:AH:88:LEU:HD11	8:AH:94:ARG:C	2.18	0.64
9:AJ:83:LEU:CD1	9:AJ:91:LEU:HD12	2.28	0.64
11:AL:25:GLY:CA	11:AL:35:ILE:HD13	2.20	0.64
12:AM:15:ARG:NE	12:AM:40:ASN:ND2	2.46	0.64
14:AO:104:ASP:C	14:AO:105:TYR:CG	2.71	0.64
14:AO:94:ARG:HB2	14:AO:120:LEU:CD2	2.28	0.64
18:AS:89:ALA:H	18:AS:92:ARG:N	1.96	0.64
18:AS:8:ARG:NH1	18:AS:8:ARG:HB3	2.12	0.64
20:AU:48:VAL:CG2	20:AU:98:VAL:HG22	2.28	0.64
21:AV:3:LEU:HD21	21:AV:38:ALA:CB	2.26	0.64
21:AV:91:PRO:HB2	21:AV:127:PRO:CA	2.26	0.64
34:BA:1014:A:H2'	34:BA:1015:A:C8	2.33	0.64
34:BA:113:G:O6	34:BA:314:C:N3	2.31	0.64
34:BA:1307:U:H2'	34:BA:1308:U:H6	1.61	0.64
34:BA:1498:U:O2'	34:BA:1499:A:O5'	2.16	0.64
34:BA:438:G:H5''	34:BA:439:A:OP1	1.98	0.64
34:BA:511:C:O2'	34:BA:512:U:H6	1.71	0.64
34:BA:828:A:N6	34:BA:858:G:O2'	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:947:G:H2'	34:BA:948:C:C6	2.32	0.64
34:BA:956:U:O2	34:BA:960:U:O4	2.16	0.64
35:BB:53:G:C5	35:BB:54:U:C5	2.86	0.64
37:BE:163:PHE:CZ	37:BE:186:ALA:CA	2.79	0.64
39:BG:19:LEU:HB3	39:BG:21:LEU:CD1	2.27	0.64
40:BH:95:ALA:O	40:BH:117:ASP:HB3	1.98	0.64
41:BI:39:LYS:CG	41:BI:64:GLN:HB3	2.27	0.64
42:BJ:146:GLU:HG2	42:BJ:149:ARG:NH2	2.13	0.64
42:BJ:88:PRO:CD	42:BJ:152:ALA:HA	2.28	0.64
50:BR:70:LEU:HG	50:BR:78:TYR:CB	2.27	0.64
35:BB:37:G:N9	35:BB:38:A:N7	2.45	0.64
35:BB:40:C:O2'	48:BP:120:LYS:CE	2.46	0.64
35:BB:11:C:N3	35:BB:12:U:O4	2.30	0.64
44:BL:85:LEU:HD11	44:BL:92:TYR:HD1	1.62	0.64
3:AC:73:ARG:N	3:AC:111:ASP:OD2	2.30	0.64
24:A0:53:HIS:O	24:A0:56:LYS:HG3	1.98	0.64
24:A0:83:ILE:O	24:A0:84:ALA:C	2.35	0.64
25:A1:72:HIS:HE1	25:A1:107:LYS:HA	1.63	0.64
29:A5:31:THR:HG22	29:A5:42:SER:HA	1.80	0.64
2:AA:2057:A:C5'	29:A5:8:LYS:NZ	2.61	0.64
31:A7:21:ARG:CZ	31:A7:43:THR:OG1	2.46	0.64
32:A8:26:LYS:HZ3	32:A8:43:GLY:HA2	1.63	0.64
2:AA:1047:G:N1	2:AA:1110:G:N7	2.46	0.64
2:AA:1057:A:O2'	9:AI:6:ILE:CD1	2.46	0.64
2:AA:1136:G:N2	2:AA:1137:G:C1'	2.60	0.64
2:AA:1218:C:O2	2:AA:1219:G:C8	2.51	0.64
2:AA:1301:A:N7	2:AA:1303:G:C1'	2.61	0.64
2:AA:1357:U:H2'	2:AA:1358:G:O4'	1.98	0.64
2:AA:1385:G:H1	2:AA:1402:C:N4	1.95	0.64
2:AA:1463:C:H2'	2:AA:1464:C:H6	1.63	0.64
2:AA:1471:A:N3	2:AA:1472:A:C1'	2.60	0.64
2:AA:1468:C:N3	2:AA:1524:G:C2	2.65	0.64
2:AA:1555:G:H8	2:AA:1555:G:O5'	1.80	0.64
2:AA:1658:C:OP1	5:AE:230:GLY:C	2.37	0.64
2:AA:1696:G:H2'	2:AA:1697:G:C8	2.33	0.64
2:AA:1789:A:H2'	2:AA:1790:C:H1'	1.80	0.64
2:AA:1819:A:H1'	2:AA:1821:A:N6	2.13	0.64
2:AA:1827:C:H1'	2:AA:1970:A:C2	2.33	0.64
2:AA:1992:G:C5	2:AA:1997:G:C5	2.84	0.64
2:AA:2051:A:N6	2:AA:2614:A:N7	2.45	0.64
2:AA:2330:G:C2	2:AA:2331:G:C4	2.85	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2335:A:H2'	2:AA:2337:G:C8	2.33	0.64
2:AA:2354:G:H21	27:A3:32:LYS:HG3	1.63	0.64
2:AA:2436:G:C2'	2:AA:2437:U:O5'	2.46	0.64
2:AA:2436:G:C6	2:AA:2437:U:C5	2.86	0.64
2:AA:2486:G:H2'	2:AA:2487:G:O5'	1.98	0.64
2:AA:2494:G:N2	2:AA:2495:G:C4	2.66	0.64
2:AA:2544:G:H5'	2:AA:2645:G:C8	2.29	0.64
2:AA:2505:G:O6	2:AA:2576:G:H1'	1.98	0.64
2:AA:2836:U:C2	2:AA:2837:G:N7	2.66	0.64
2:AA:2850:A:H2'	2:AA:2851:A:H8	1.63	0.64
2:AA:327:G:C2'	2:AA:328:U:H5'	2.28	0.64
2:AA:562:U:C5	2:AA:2036:C:O4'	2.50	0.64
2:AA:599:G:H2'	2:AA:600:G:H8	1.63	0.64
2:AA:628:G:H8	2:AA:628:G:O5'	1.80	0.64
2:AA:680:G:O2'	2:AA:681:G:H5'	1.98	0.64
2:AA:702:G:H2'	2:AA:703:U:C6	2.33	0.64
2:AA:804:A:H5''	2:AA:805:G:OP1	1.98	0.64
2:AA:951:C:HO2'	2:AA:952:G:C5'	2.11	0.64
1:AB:68:C:H3'	1:AB:69:G:C8	2.33	0.64
4:AD:216:ALA:O	4:AD:223:ASN:N	2.31	0.64
4:AD:76:ARG:HB3	4:AD:113:MET:HG2	1.78	0.64
5:AE:262:THR:OG1	5:AE:263:GLU:N	2.26	0.64
6:AF:113:SER:O	6:AF:116:ALA:HB3	1.97	0.64
6:AF:196:THR:HG22	6:AF:197:SER:H	1.62	0.64
6:AF:234:VAL:O	6:AF:234:VAL:HG23	1.98	0.64
2:AA:673:C:OP1	6:AF:81:PRO:HD2	1.97	0.64
7:AG:53:LYS:CG	7:AG:54:ALA:N	2.60	0.64
7:AG:82:GLU:O	7:AG:85:GLN:CD	2.36	0.64
8:AH:67:THR:O	8:AH:71:LEU:HD12	1.98	0.64
10:AK:30:LEU:HA	10:AK:33:GLN:NE2	2.13	0.64
13:AN:34:ASN:HB2	13:AN:37:ASP:OD2	1.98	0.64
14:AO:124:ASP:O	14:AO:125:PHE:CD2	2.51	0.64
14:AO:95:ASP:OD1	14:AO:95:ASP:O	2.16	0.64
15:AP:28:ILE:HG22	15:AP:29:ALA:N	2.13	0.64
15:AP:32:LYS:HE3	21:AV:172:LEU:CD1	2.27	0.64
16:AQ:20:TYR:HE2	16:AQ:21:HIS:CD2	2.15	0.64
16:AQ:59:ALA:HB3	16:AQ:91:ARG:CZ	2.28	0.64
16:AQ:94:GLU:CG	16:AQ:95:ALA:N	2.61	0.64
17:AR:25:ASP:O	17:AR:26:GLY:C	2.34	0.64
18:AS:95:ILE:CG2	18:AS:96:ILE:N	2.61	0.64
19:AT:56:ASN:N	19:AT:56:ASN:HD22	1.94	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1091:U:O2	34:BA:1093:A:N7	2.31	0.64
34:BA:1227:A:H8	34:BA:1228:C:O4'	1.80	0.64
34:BA:1278:U:H4'	34:BA:1279:A:C8	2.33	0.64
34:BA:1284:C:H2'	34:BA:1285:A:H8	1.61	0.64
34:BA:1269:A:N6	34:BA:1312:G:HO2'	1.96	0.64
34:BA:131:C:C2	34:BA:231:G:N2	2.63	0.64
34:BA:1321:C:C5	34:BA:1322:C:C2	2.86	0.64
34:BA:1405:G:C2	34:BA:1406:U:C5	2.86	0.64
34:BA:1480:G:H2'	34:BA:1481:U:C5'	2.28	0.64
34:BA:311:C:O2'	34:BA:312:C:H5'	1.98	0.64
34:BA:332:G:O2'	34:BA:333:G:C5'	2.41	0.64
34:BA:373:A:N3	34:BA:374:A:C8	2.66	0.64
34:BA:627:G:O2'	34:BA:628:G:O5'	2.16	0.64
34:BA:723:U:H2'	34:BA:723:U:O2	1.97	0.64
34:BA:769:G:O2'	34:BA:770:C:C5'	2.46	0.64
34:BA:714:G:O2'	34:BA:777:A:N7	2.24	0.64
34:BA:841:U:C3'	34:BA:848:C:H5'	2.28	0.64
35:BC:50:U:H2'	35:BC:51:G:C8	2.33	0.64
38:BF:57:ILE:HG23	38:BF:66:VAL:HG22	1.80	0.64
39:BG:118:ARG:HG3	39:BG:118:ARG:HH21	1.62	0.64
39:BG:15:GLU:HG2	39:BG:63:LYS:HB3	1.80	0.64
39:BG:59:ARG:NH1	39:BG:59:ARG:CA	2.56	0.64
40:BH:105:VAL:CG2	40:BH:132:ALA:HB2	2.27	0.64
40:BH:94:ALA:HB3	40:BH:117:ASP:C	2.18	0.64
42:BJ:129:GLU:CG	42:BJ:131:LYS:HE2	2.28	0.64
42:BJ:54:THR:C	42:BJ:56:GLN:H	2.01	0.64
44:BL:36:TYR:OH	44:BL:70:LYS:NZ	2.31	0.64
47:BO:102:ARG:HB3	47:BO:109:GLY:HA2	1.79	0.64
48:BP:13:LYS:C	48:BP:44:ARG:HG3	2.19	0.64
34:BA:1316:G:C5'	49:BQ:17:LYS:HD2	2.11	0.64
53:BU:47:THR:H	53:BU:49:LYS:NZ	1.96	0.64
35:BB:37:G:N9	35:BB:38:A:C8	2.66	0.64
2:AA:1508:A:OP1	2:AA:1510:A:C6	2.50	0.64
24:A0:56:LYS:O	24:A0:57:ARG:C	2.37	0.63
24:A0:57:ARG:HE	24:A0:62:ALA:HB2	1.63	0.63
24:A0:94:TYR:O	24:A0:116:LEU:HA	1.98	0.63
25:A1:50:ARG:HH22	26:A2:74:TYR:CA	2.10	0.63
2:AA:1162:G:H4'	26:A2:23:GLU:HB2	1.79	0.63
27:A3:25:LYS:HE2	27:A3:57:HIS:ND1	2.12	0.63
27:A3:49:GLN:HE22	27:A3:73:GLY:HA3	1.63	0.63
2:AA:2348:U:P	32:A8:42:ARG:HH12	2.20	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1000:A:C8	2:AA:1001:A:C5	2.86	0.63
2:AA:1063:G:N2	2:AA:1076:C:C6	2.66	0.63
2:AA:1213:A:C6	2:AA:1237:A:H1'	2.32	0.63
2:AA:1322:A:O2'	2:AA:1323:U:H5'	1.98	0.63
2:AA:1359:A:H2'	2:AA:1360:A:C5'	2.27	0.63
2:AA:136:G:C3'	2:AA:137:C:H4'	2.27	0.63
2:AA:1469:A:N6	2:AA:1470:G:H1	1.96	0.63
2:AA:1468:C:N4	2:AA:1524:G:C6	2.66	0.63
2:AA:1613:G:N1	2:AA:1619:G:C5	2.67	0.63
2:AA:1672:C:H2'	2:AA:1673:U:C5'	2.29	0.63
2:AA:16:G:O6	2:AA:524:U:O2	2.17	0.63
2:AA:1780:A:OP2	2:AA:1782:C:P	2.56	0.63
2:AA:181:A:H2'	2:AA:182:A:H8	1.63	0.63
2:AA:1857:G:H3'	2:AA:1857:G:H8	1.63	0.63
2:AA:2015:A:OP2	2:AA:2015:A:O4'	2.16	0.63
2:AA:2023:G:O2'	2:AA:2024:G:H5'	1.99	0.63
2:AA:2106:G:H1	2:AA:2183:C:N4	1.94	0.63
2:AA:2092:U:C5	2:AA:2227:A:N6	2.61	0.63
2:AA:2432:A:C2	2:AA:2433:A:C6	2.86	0.63
2:AA:2589:A:O2'	2:AA:2590:A:C5'	2.46	0.63
2:AA:2615:U:O2'	2:AA:2616:C:O5'	2.16	0.63
2:AA:2713:A:H3'	2:AA:2714:G:H5'	1.80	0.63
2:AA:273(B):C:O2	2:AA:363(D):G:N1	2.31	0.63
2:AA:288:C:C3'	2:AA:288:C:C6	2.80	0.63
2:AA:355:G:H2'	2:AA:356:G:C8	2.33	0.63
2:AA:569:U:OP1	2:AA:945:A:N1	2.30	0.63
2:AA:622:G:O2'	2:AA:623:G:H5'	1.98	0.63
2:AA:70:G:C5	2:AA:114:U:O4	2.51	0.63
2:AA:804:A:OP1	2:AA:805:G:OP1	2.15	0.63
2:AA:831:G:H2'	2:AA:832:G:H5'	1.79	0.63
2:AA:942:G:C2	2:AA:943:U:C4	2.86	0.63
2:AA:975:G:N7	2:AA:990:A:C6	2.65	0.63
2:AA:997:G:HO2'	2:AA:998:C:H6	1.46	0.63
1:AB:82:G:N3	1:AB:83:G:C8	2.66	0.63
3:AC:70:LYS:CA	3:AC:157:LYS:HZ3	2.11	0.63
3:AC:173:ALA:HB1	3:AC:174:PRO:CD	2.24	0.63
4:AD:89:ASN:O	4:AD:105:ALA:CA	2.46	0.63
5:AE:190:ASN:C	5:AE:193:PHE:N	2.45	0.63
5:AE:300:VAL:C	5:AE:302:GLY:N	2.52	0.63
6:AF:163:HIS:HA	6:AF:166:ILE:HG13	1.80	0.63
6:AF:194:PHE:CB	6:AF:211:ASP:O	2.46	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:238:SER:O	6:AF:241:ALA:N	2.31	0.63
6:AF:215:ALA:HA	6:AF:242:GLU:HG3	1.80	0.63
7:AG:51:ARG:HH12	7:AG:74:THR:HG23	1.62	0.63
8:AH:67:THR:CG2	8:AH:71:LEU:HD11	2.21	0.63
10:AK:40:THR:O	10:AK:43:ASN:N	2.29	0.63
12:AM:135:ILE:N	12:AM:135:ILE:HD13	2.12	0.63
12:AM:135:ILE:O	12:AM:139:LEU:CD1	2.46	0.63
12:AM:15:ARG:HD3	12:AM:43:ARG:NH1	2.13	0.63
12:AM:15:ARG:HA	12:AM:44:ALA:HA	1.80	0.63
12:AM:59:LYS:O	12:AM:63:ILE:CG1	2.41	0.63
12:AM:79:PHE:O	12:AM:83:ILE:HG12	1.98	0.63
13:AN:1:MET:HB3	13:AN:67:ARG:CZ	2.27	0.63
15:AP:26:LYS:HG3	15:AP:28:ILE:CG1	2.28	0.63
15:AP:87:LYS:C	15:AP:88:PHE:CG	2.72	0.63
16:AQ:85:GLY:O	16:AQ:86:LEU:C	2.37	0.63
19:AT:45:TYR:O	19:AT:47:VAL:N	2.31	0.63
19:AT:5:ILE:CG2	19:AT:6:LYS:N	2.61	0.63
20:AU:46:ASP:OD2	20:AU:102:ASP:N	2.30	0.63
20:AU:51:LEU:HB3	20:AU:97:ARG:NE	2.14	0.63
20:AU:49:GLU:HG2	20:AU:59:GLU:HA	1.80	0.63
21:AV:149:ALA:O	21:AV:150:GLY:O	2.16	0.63
34:BA:1161:C:H2'	34:BA:1162:C:H6	1.62	0.63
34:BA:1233:G:O2'	34:BA:1365:G:OP1	2.15	0.63
34:BA:150:C:H2'	34:BA:151:A:O4'	1.98	0.63
34:BA:197:A:O2'	34:BA:198:G:P	2.56	0.63
34:BA:814:A:N7	34:BA:816:A:C5	2.66	0.63
34:BA:873:A:H3'	34:BA:873:A:OP1	1.98	0.63
34:BA:978:A:C6	34:BA:1319:A:C2	2.85	0.63
35:BB:8:U:O5'	35:BB:8:U:C6	2.52	0.63
35:BC:1:G:N2	35:BC:2:C:C6	2.66	0.63
37:BE:221:LEU:HA	37:BE:224:GLN:CD	2.17	0.63
38:BF:26:LYS:O	38:BF:28:GLN:N	2.31	0.63
39:BG:106:TYR:HD1	39:BG:111:ALA:O	1.81	0.63
39:BG:106:TYR:CE1	39:BG:112:VAL:O	2.51	0.63
42:BJ:31:MET:CG	42:BJ:32:ARG:H	2.07	0.63
44:BL:37:PHE:HB3	44:BL:43:ALA:HB2	1.79	0.63
45:BM:29:ARG:HB2	45:BM:84:GLN:NE2	2.11	0.63
45:BM:51:ARG:HA	49:BQ:45:ARG:CZ	2.28	0.63
46:BN:34:ASP:N	46:BN:40:ILE:HD11	2.12	0.63
46:BN:15:ALA:CA	46:BN:78:GLN:NE2	2.57	0.63
47:BO:28:LYS:HD2	47:BO:33:ARG:HH12	1.60	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:104:ARG:CG	48:BP:105:THR:HG23	2.28	0.63
48:BP:77:ASN:HA	48:BP:80:ARG:HD3	1.81	0.63
50:BR:70:LEU:HG	50:BR:78:TYR:HD1	1.62	0.63
51:BS:12:LYS:HE2	51:BS:13:HIS:CE1	2.33	0.63
52:BT:5:VAL:CG1	52:BT:59:ILE:O	2.43	0.63
53:BU:56:THR:HB	53:BU:58:LEU:HD12	1.80	0.63
53:BU:53:ARG:NH1	53:BU:59:SER:C	2.50	0.63
34:BA:108:G:C6	55:BW:15:ARG:NE	2.65	0.63
48:BP:120:LYS:HG2	48:BP:121:LYS:N	2.13	0.63
10:AK:79:ILE:HD12	10:AK:144:HIS:O	1.97	0.63
7:AG:90:LEU:HD22	48:BP:3:ARG:HH11	1.62	0.63
2:AA:2899:G:C4	2:AA:2900:A:N7	2.66	0.63
2:AA:1654:A:N3	2:AA:1654:A:H2'	2.12	0.63
24:A0:73:VAL:O	24:A0:77:ARG:NH1	2.30	0.63
24:A0:58:GLY:CA	24:A0:80:PHE:CE2	2.67	0.63
26:A2:19:VAL:CG1	26:A2:21:ARG:HH22	2.11	0.63
2:AA:2371:G:H4'	30:A6:47:HIS:CE1	2.34	0.63
31:A7:33:ARG:O	31:A7:37:LYS:HB2	1.96	0.63
32:A8:5:LYS:H	32:A8:7:HIS:CE1	2.14	0.63
2:AA:1022:G:H1	12:AM:47:THR:HG21	1.62	0.63
2:AA:1064:C:C2'	2:AA:1065:U:C6	2.82	0.63
2:AA:1107:G:O2'	2:AA:1108:U:H5'	1.98	0.63
2:AA:1174:A:N6	2:AA:1177:A:C4	2.66	0.63
2:AA:1181:C:C2	2:AA:1182:A:C8	2.86	0.63
2:AA:135:G:N2	2:AA:144:C:C2	2.66	0.63
2:AA:1394:U:H4'	2:AA:1603:A:C4'	2.29	0.63
2:AA:1420:U:O2'	2:AA:1421:G:O5'	2.13	0.63
2:AA:1475:G:N2	2:AA:1477:A:C5	2.65	0.63
2:AA:1494:A:C2	2:AA:1495:A:O4'	2.52	0.63
2:AA:1609:A:C6	2:AA:1616:A:C2	2.87	0.63
2:AA:1636:C:O2'	2:AA:1761:C:C1'	2.45	0.63
2:AA:1765:C:O2'	2:AA:1766:U:H5'	1.98	0.63
2:AA:1835:G:C2'	2:AA:1836:C:H5'	2.28	0.63
2:AA:1846:G:N1	2:AA:1895:C:C4	2.67	0.63
2:AA:1894:C:C2	2:AA:1895:C:C5	2.86	0.63
2:AA:1984:G:C6	2:AA:1985:G:N7	2.66	0.63
2:AA:2072:G:H2'	2:AA:2073:C:H6	1.63	0.63
2:AA:2138:C:H6	2:AA:2138:C:O5'	1.81	0.63
2:AA:2092:U:H5	2:AA:2227:A:H62	1.41	0.63
2:AA:231:C:N4	2:AA:232:G:H22	1.94	0.63
2:AA:2407:G:H2'	2:AA:2408:U:C6	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:244:A:O2'	14:AO:55:GLN:NE2	2.30	0.63
2:AA:2044:C:C5	2:AA:2625:G:N2	2.66	0.63
2:AA:270(C):C:C5	2:AA:270(D):C:H5	2.15	0.63
2:AA:2830:G:N2	2:AA:2883:A:C2	2.65	0.63
2:AA:2866:U:O2	2:AA:2868:A:H4'	1.98	0.63
2:AA:327:G:N1	2:AA:328:U:H6	1.95	0.63
2:AA:342:G:H1	2:AA:344:G:H22	0.72	0.63
2:AA:530:G:HO2'	2:AA:531:C:C4'	2.11	0.63
2:AA:579:G:H5''	2:AA:2018:G:C5'	2.28	0.63
2:AA:737:C:N4	2:AA:759:G:H1	1.96	0.63
2:AA:873:G:H5'	15:AP:32:LYS:H	1.60	0.63
2:AA:911:A:C2	15:AP:16:ARG:HA	2.33	0.63
1:AB:33:G:C2'	1:AB:34:U:C6	2.74	0.63
3:AC:22:ILE:HG21	3:AC:189:ILE:HB	1.80	0.63
4:AD:139:LEU:HD13	4:AD:192:GLY:H	1.61	0.63
2:AA:1568:G:H3'	4:AD:60:GLN:CG	2.29	0.63
5:AE:220:GLN:OE1	5:AE:223:LYS:HE2	1.98	0.63
5:AE:208:LYS:HB3	5:AE:256:THR:O	1.99	0.63
5:AE:70:VAL:CG1	5:AE:71:THR:H	2.07	0.63
2:AA:2312:U:O2'	7:AG:72:LYS:HE3	1.98	0.63
8:AH:51:VAL:HG12	8:AH:52:THR:O	1.99	0.63
9:AI:13:LEU:HB3	9:AI:17:GLU:HB3	1.79	0.63
12:AM:135:ILE:HG23	12:AM:139:LEU:HD11	1.76	0.63
12:AM:12:VAL:HG12	12:AM:13:ASP:N	2.13	0.63
15:AP:89:PRO:HB2	15:AP:111:THR:HG22	1.80	0.63
16:AQ:19:ASP:C	16:AQ:21:HIS:H	1.99	0.63
17:AR:46:ALA:O	17:AR:49:LEU:HB3	1.98	0.63
19:AT:57:THR:CB	19:AT:59:ASP:OD2	2.46	0.63
20:AU:101:LEU:HD13	20:AU:113:GLU:CD	2.19	0.63
20:AU:81:LYS:HZ2	20:AU:84:GLY:N	1.96	0.63
21:AV:13:LYS:C	21:AV:15:ASP:N	2.51	0.63
36:B1:54:G:H2'	36:B1:54:G:N3	2.11	0.63
34:BA:1048:G:OP1	49:BQ:3:ARG:HA	1.99	0.63
34:BA:1054:C:H6	34:BA:1054:C:H3'	1.63	0.63
34:BA:1145:C:HO2'	34:BA:1146:A:P	2.21	0.63
34:BA:1127:G:C1'	34:BA:1148:U:H3	2.07	0.63
34:BA:1188:A:O2'	34:BA:1189:C:H5'	1.98	0.63
34:BA:1068:G:H1'	34:BA:1191:A:H61	1.62	0.63
34:BA:959:A:H2	34:BA:1221:G:N3	1.95	0.63
34:BA:1246:C:O2'	34:BA:1247:U:H5'	1.98	0.63
34:BA:1326:C:N4	34:BA:1327:C:N4	2.46	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1371:G:H5''	44:BL:68:GLY:CA	2.28	0.63
34:BA:1443:G:H5''	34:BA:1446:A:C5'	2.27	0.63
34:BA:166:G:C2	34:BA:167:G:C8	2.86	0.63
34:BA:174:C:N4	34:BA:175:C:N4	2.45	0.63
34:BA:462:G:H21	51:BS:82:GLN:HE22	1.40	0.63
34:BA:451:A:N6	34:BA:480:U:H2'	2.13	0.63
34:BA:598:U:H4'	43:BK:94:TYR:CB	2.28	0.63
34:BA:625:G:C2	34:BA:626:U:C2	2.86	0.63
34:BA:642:A:O5'	34:BA:642:A:H8	1.81	0.63
34:BA:817:C:C2	34:BA:819:A:H5'	2.33	0.63
34:BA:962:C:O2'	34:BA:963:G:H5'	1.98	0.63
35:BC:34:G:O5'	35:BC:34:G:H8	1.79	0.63
2:AA:2252:G:N2	35:BC:74:C:N4	2.41	0.63
37:BE:165:VAL:HG23	37:BE:166:ASP:H	1.61	0.63
37:BE:171:ALA:O	37:BE:174:VAL:HB	1.97	0.63
39:BG:12:CYS:HB3	39:BG:31:CYS:O	1.98	0.63
39:BG:34:GLU:HG3	39:BG:35:ARG:HG2	1.80	0.63
39:BG:82:ALA:CB	39:BG:89:THR:HG23	2.28	0.63
41:BI:14:LEU:CD1	41:BI:18:GLN:HB3	2.28	0.63
41:BI:39:LYS:CD	41:BI:64:GLN:NE2	2.56	0.63
41:BI:80:ARG:O	41:BI:81:ILE:O	2.16	0.63
46:BN:91:ARG:O	46:BN:94:ALA:HB3	1.99	0.63
47:BO:117:ARG:NH2	47:BO:124:LYS:N	2.46	0.63
47:BO:38:THR:O	47:BO:39:VAL:CG2	2.46	0.63
48:BP:15:VAL:O	48:BP:19:LEU:HG	1.99	0.63
48:BP:80:ARG:O	48:BP:84:ILE:HG23	1.99	0.63
51:BS:7:ALA:HB3	51:BS:18:ARG:CG	2.27	0.63
34:BA:264:U:H2'	52:BT:64:PRO:HB2	1.79	0.63
54:BV:32:LYS:CB	54:BV:50:ALA:HB3	2.28	0.63
55:BW:56:MET:SD	55:BW:88:VAL:CG2	2.83	0.63
2:AA:2109:U:O5'	2:AA:2109:U:H6	1.82	0.63
2:AA:1650:G:C5'	24:A0:104:ARG:HH22	2.09	0.63
26:A2:14:VAL:CG2	26:A2:19:VAL:HG21	2.29	0.63
25:A1:44:THR:OG1	26:A2:77:GLY:O	2.15	0.63
25:A1:40:LEU:HD21	26:A2:83:ARG:NH2	2.13	0.63
26:A2:21:ARG:HB2	26:A2:95:ILE:HD11	1.79	0.63
28:A4:58:LYS:O	28:A4:62:ARG:HG3	1.98	0.63
2:AA:125:G:C5'	31:A7:19:ARG:NH1	2.49	0.63
2:AA:1034:G:P	33:A9:18:ARG:NH2	2.71	0.63
2:AA:1057:A:N3	2:AA:1058:G:C8	2.67	0.63
2:AA:106:C:C2'	2:AA:107:C:H5'	2.27	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1084:A:H2	9:AI:29:PHE:CE1	2.16	0.63
2:AA:1085:A:O2'	2:AA:1086:A:C4'	2.46	0.63
2:AA:1299:G:C4'	2:AA:1301:A:N3	2.37	0.63
2:AA:1301:A:N7	2:AA:1303:G:N9	2.47	0.63
2:AA:1416:G:H22	2:AA:1581:G:H1	1.46	0.63
2:AA:1448:G:C2	2:AA:1449:A:N7	2.65	0.63
2:AA:1492:G:N1	2:AA:1498:C:N4	2.28	0.63
2:AA:1310:G:H1	2:AA:1604:C:H42	1.46	0.63
2:AA:1758:G:H3'	2:AA:1759:A:H8	1.62	0.63
2:AA:1906:G:C1'	2:AA:1929:G:C8	2.82	0.63
2:AA:1944:U:O4'	2:AA:1955:U:C6	2.51	0.63
2:AA:1955:U:O2	2:AA:1955:U:H2'	1.99	0.63
2:AA:2076:U:H4'	2:AA:2077:A:OP1	1.99	0.63
2:AA:2195:C:C2	2:AA:2196:C:C6	2.86	0.63
2:AA:2290:G:C5	2:AA:2291:U:C4	2.87	0.63
2:AA:2447:G:C6	2:AA:2501:C:C2	2.85	0.63
2:AA:28:A:H2'	2:AA:29:U:C5'	2.26	0.63
2:AA:292:C:C2'	2:AA:293:U:H3	2.11	0.63
2:AA:531:C:C6	2:AA:532:A:N3	2.67	0.63
2:AA:612:G:H4'	2:AA:616:A:N1	2.13	0.63
2:AA:63:U:OP2	2:AA:63:U:C6	2.51	0.63
2:AA:668:G:H2'	2:AA:670:A:H62	1.63	0.63
2:AA:873:G:O2'	21:AV:115:ILE:HD11	1.98	0.63
2:AA:977:G:H2'	2:AA:978:G:O4'	1.98	0.63
2:AA:989:G:H2'	2:AA:990:A:OP2	1.99	0.63
3:AC:83:ILE:HG23	3:AC:94:VAL:HG12	1.80	0.63
4:AD:203:PRO:HB2	4:AD:205:VAL:HG13	1.80	0.63
5:AE:214:VAL:CG2	5:AE:221:LYS:HZ1	2.11	0.63
5:AE:222:ARG:NH2	5:AE:234:ARG:N	2.41	0.63
5:AE:85:ALA:CB	5:AE:87:GLU:OE2	2.46	0.63
6:AF:223:LEU:O	6:AF:224:ALA:C	2.37	0.63
6:AF:84:VAL:CG2	6:AF:85:LYS:NZ	2.60	0.63
7:AG:93:LEU:HD22	7:AG:106:PHE:HD2	1.62	0.63
2:AA:2311:A:O2'	7:AG:54:ALA:N	2.31	0.63
8:AH:84:LYS:HE3	8:AH:141:GLY:CA	2.28	0.63
8:AH:25:VAL:HG12	8:AH:78:VAL:CG2	2.17	0.63
8:AH:83:GLU:C	8:AH:83:GLU:CD	2.57	0.63
11:AL:35:ILE:O	11:AL:39:CYS:SG	2.56	0.63
12:AM:56:LYS:O	12:AM:59:LYS:CB	2.46	0.63
13:AN:77:ILE:HD11	13:AN:79:PHE:CE2	2.32	0.63
14:AO:71:GLU:HG3	14:AO:72:ASN:N	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:66:ASN:O	15:AP:69:ASN:OD1	2.17	0.63
15:AP:88:PHE:CB	15:AP:90:PHE:HE1	2.12	0.63
16:AQ:102:LEU:H	16:AQ:102:LEU:CD1	1.92	0.63
16:AQ:110:THR:O	16:AQ:111:PRO:C	2.32	0.63
2:AA:2320:A:N6	16:AQ:9:PRO:HG3	2.13	0.63
18:AS:29:LEU:CD1	18:AS:33:ARG:HD2	2.28	0.63
36:B1:11:U:H2'	36:B1:12:U:C5	2.33	0.63
34:BA:113:G:H1'	34:BA:354:G:C5'	2.25	0.63
34:BA:1195:C:C2	34:BA:1197:G:C8	2.85	0.63
34:BA:1302:U:O2'	34:BA:1303:C:OP1	2.13	0.63
34:BA:1388:C:H2'	34:BA:1389:C:H6	1.61	0.63
34:BA:1405:G:C1'	34:BA:1519:A:H5'	2.29	0.63
34:BA:1435:G:H2'	34:BA:1436:U:C6	2.33	0.63
34:BA:193:C:O2'	34:BA:194:C:H5'	1.98	0.63
34:BA:406:G:C2	34:BA:407:G:N7	2.66	0.63
34:BA:595:G:H5''	34:BA:596:C:OP1	1.98	0.63
34:BA:673:G:C2'	34:BA:674:G:C8	2.81	0.63
34:BA:689:C:O2	34:BA:689:C:H2'	1.99	0.63
34:BA:790:A:C6	34:BA:791:G:C2	2.86	0.63
34:BA:819:A:H4'	34:BA:820:U:OP2	1.95	0.63
34:BA:571:U:O4'	34:BA:819:A:N7	2.30	0.63
35:BB:19:G:H5'	35:BB:20:G:C6	2.34	0.63
37:BE:115:LEU:HB2	37:BE:149:LEU:CD1	2.29	0.63
37:BE:67:THR:CG2	37:BE:155:LEU:HD11	2.27	0.63
38:BF:73:PRO:CD	38:BF:105:GLU:HG3	2.26	0.63
38:BF:88:ARG:HH21	38:BF:100:ALA:HB1	1.63	0.63
42:BJ:107:ALA:O	42:BJ:110:GLN:HB2	1.96	0.63
43:BK:22:GLU:HA	43:BK:63:LEU:CD2	2.27	0.63
49:BQ:16:PHE:O	49:BQ:17:LYS:C	2.37	0.63
50:BR:8:LYS:O	50:BR:11:VAL:CB	2.41	0.63
51:BS:14:ASN:OD1	51:BS:14:ASN:C	2.36	0.63
51:BS:53:VAL:HG12	51:BS:78:GLY:O	1.98	0.63
34:BA:462:G:N2	51:BS:82:GLN:HE21	1.95	0.63
52:BT:40:LYS:NZ	52:BT:42:TYR:OH	2.27	0.63
52:BT:67:LYS:HA	52:BT:70:ARG:HH22	1.59	0.63
53:BU:21:LYS:NZ	53:BU:23:LYS:CB	2.56	0.63
53:BU:77:GLY:O	53:BU:79:LEU:CD1	2.47	0.63
54:BV:18:LYS:CA	54:BV:18:LYS:HE3	2.28	0.63
10:AK:107:GLY:O	10:AK:109:LYS:HE3	1.99	0.63
1:AB:12:C:C5'	27:A3:53:MET:HE1	2.28	0.63
24:A0:22:ARG:O	24:A0:26:LYS:HG3	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:A0:20:LEU:CD2	24:A0:24:GLN:CG	2.76	0.63
25:A1:72:HIS:CG	25:A1:110:VAL:HG11	2.34	0.63
25:A1:83:LEU:O	25:A1:86:ALA:CB	2.39	0.63
26:A2:72:ARG:CB	26:A2:88:GLN:NE2	2.58	0.63
29:A5:12:SER:O	29:A5:14:SER:N	2.32	0.63
29:A5:18:MET:O	29:A5:19:ARG:C	2.37	0.63
33:A9:9:LYS:HE3	33:A9:16:VAL:CG2	2.28	0.63
2:AA:1280:G:H2'	2:AA:1281:G:O5'	1.99	0.63
2:AA:137(A):G:C6	2:AA:142:G:N2	2.65	0.63
2:AA:1457:A:C6	2:AA:2703:C:N4	2.67	0.63
2:AA:1463:C:H2'	2:AA:1464:C:C6	2.33	0.63
2:AA:1475:G:C2'	2:AA:1475:G:N3	2.62	0.63
2:AA:1566:A:N3	4:AD:212:HIS:HB3	2.13	0.63
2:AA:1271:G:H2'	2:AA:1618:A:OP1	1.99	0.63
2:AA:1670:C:H6	2:AA:1670:C:C5'	2.10	0.63
2:AA:1698:A:O2'	2:AA:1699:G:O5'	2.17	0.63
2:AA:1758:G:H3'	2:AA:1759:A:C8	2.33	0.63
2:AA:223:A:N6	2:AA:422:A:N6	2.46	0.63
2:AA:2287:A:O2'	2:AA:2288:A:C5'	2.45	0.63
2:AA:230:U:O2'	2:AA:231:C:O4'	2.08	0.63
2:AA:2419:U:OP1	32:A8:41:ILE:HD12	1.97	0.63
2:AA:2473:U:O2	2:AA:2473:U:H2'	1.98	0.63
2:AA:2593:U:H3	2:AA:2600:A:H61	1.44	0.63
2:AA:2662:A:C2	2:AA:2663:G:O4'	2.51	0.63
2:AA:270(M):U:C4'	2:AA:270(N):G:H4'	2.18	0.63
2:AA:270(S):G:C4	2:AA:270(T):G:N7	2.66	0.63
2:AA:2818:G:C2	2:AA:2829:C:N3	2.66	0.63
2:AA:52:A:C2	2:AA:53:A:C4	2.85	0.63
2:AA:594:U:H2'	2:AA:595:C:H6	1.55	0.63
1:AB:69:G:C2'	1:AB:69:G:N3	2.61	0.63
3:AC:157:LYS:O	3:AC:159:GLY:N	2.32	0.63
3:AC:36:LYS:O	3:AC:37:PHE:C	2.37	0.63
3:AC:5:LYS:NZ	3:AC:5:LYS:HB3	2.14	0.63
4:AD:77:VAL:HG21	4:AD:109:LEU:HB3	1.81	0.63
4:AD:131:LEU:C	4:AD:134:ILE:HB	2.19	0.63
4:AD:143:ILE:O	4:AD:152:GLN:CA	2.46	0.63
4:AD:81:GLU:HG3	4:AD:92:LEU:CD1	2.28	0.63
5:AE:208:LYS:H	5:AE:257:GLY:CA	2.12	0.63
5:AE:311:PHE:CD2	5:AE:311:PHE:N	2.66	0.63
5:AE:70:VAL:HG12	5:AE:71:THR:N	2.14	0.63
6:AF:200:PRO:HG3	6:AF:212:VAL:CG1	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:88:LEU:CD1	8:AH:95:ALA:N	2.60	0.63
9:AI:80:ILE:CG2	9:AI:103:LYS:HD2	2.23	0.63
9:AJ:103:LYS:CB	9:AJ:114:ILE:HD13	2.29	0.63
10:AK:7:LYS:HG3	10:AK:12:LYS:CD	2.29	0.63
13:AN:120:GLU:CG	13:AN:122:ILE:HD11	2.24	0.63
13:AN:85:VAL:HG21	13:AN:114:ILE:HD13	1.79	0.63
1:AB:47:C:O3'	16:AQ:107:ASN:OD1	2.17	0.63
2:AA:2320:A:N6	16:AQ:13:ARG:HG2	2.13	0.63
18:AS:13:SER:O	18:AS:13:SER:OG	2.16	0.63
19:AT:29:ASP:C	19:AT:30:ASP:CG	2.56	0.63
2:AA:328:U:O2'	20:AU:94:SER:CB	2.46	0.63
21:AV:17:SER:N	21:AV:36:ARG:CZ	2.61	0.63
21:AV:81:VAL:HG12	21:AV:82:ASP:N	2.13	0.63
22:AW:27:LEU:HD21	22:AW:49:LEU:CB	2.29	0.63
23:AX:20:LYS:CA	23:AX:23:LEU:HG	2.28	0.63
34:BA:1017:G:H2'	34:BA:1018:C:H6	1.63	0.63
34:BA:106:C:C2	34:BA:107:G:C8	2.87	0.63
34:BA:1198:G:O2'	45:BM:55:LYS:NZ	2.23	0.63
34:BA:1313:U:H5	54:BV:4:SER:HB3	1.63	0.63
34:BA:1338:G:C6	34:BA:1339:A:C6	2.87	0.63
34:BA:1419:G:N2	34:BA:1420:C:C2	2.67	0.63
34:BA:1464:G:C6	34:BA:1465:C:N4	2.66	0.63
34:BA:247:G:H1	34:BA:277:C:N4	1.95	0.63
34:BA:295:C:H2'	34:BA:296:U:O4'	1.98	0.63
34:BA:351:G:H4'	34:BA:352:C:OP1	1.98	0.63
34:BA:571:U:C5'	34:BA:572:A:OP2	2.47	0.63
34:BA:620:C:N3	39:BG:135:LEU:HD13	2.13	0.63
34:BA:634:C:O2'	34:BA:635:G:H5'	1.97	0.63
34:BA:769:G:H21	34:BA:900:A:H61	1.47	0.63
35:BB:19:G:N9	35:BB:57:G:N2	2.45	0.63
34:BA:530:G:O6	35:BB:34:G:N3	2.31	0.63
35:BB:53:G:N3	35:BB:54:U:C6	2.67	0.63
35:BB:48:C:N4	35:BB:59:U:O2	2.32	0.63
35:BB:74:C:C2'	35:BB:75:C:O5'	2.46	0.63
37:BE:82:ARG:HD2	37:BE:92:TYR:CE1	2.34	0.63
38:BF:123:GLN:O	38:BF:126:ARG:N	2.31	0.63
38:BF:12:LEU:HD13	38:BF:17:ASP:C	2.18	0.63
34:BA:1191:A:H5''	38:BF:4:LYS:HZ2	1.62	0.63
41:BI:1:MET:HB3	41:BI:67:MET:O	1.99	0.63
42:BJ:72:ARG:HG2	42:BJ:72:ARG:HH11	1.64	0.63
43:BK:63:LEU:HG	43:BK:65:TYR:HH	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:48:ILE:HD11	46:BN:64:ALA:CA	2.28	0.63
51:BS:22:THR:HG22	51:BS:32:TYR:HB2	1.81	0.63
34:BA:626:U:OP1	51:BS:38:TYR:HB3	1.99	0.63
53:BU:17:SER:O	53:BU:18:ARG:CZ	2.46	0.63
50:BR:77:ARG:NH1	50:BR:77:ARG:CB	2.60	0.63
12:AM:31:LEU:O	12:AM:32:ASP:C	2.36	0.63
26:A2:39:PHE:N	26:A2:58:ALA:HB2	2.12	0.63
26:A2:39:PHE:C	26:A2:40:VAL:HG22	2.18	0.63
27:A3:58:THR:OG1	27:A3:58:THR:O	2.14	0.63
30:A6:42:PRO:HD3	30:A6:50:PHE:HZ	1.64	0.63
32:A8:29:LYS:NZ	32:A8:36:LYS:HE2	2.14	0.63
32:A8:29:LYS:CD	32:A8:36:LYS:NZ	2.58	0.63
2:AA:1052:C:O2'	2:AA:1053:C:H5'	1.98	0.63
2:AA:10:G:C2	2:AA:2629:A:C2	2.86	0.63
2:AA:1162:G:H2'	2:AA:1163:G:C8	2.32	0.63
2:AA:1261:C:O2'	2:AA:1262:A:O5'	2.16	0.63
2:AA:1306:C:H2'	2:AA:1307:A:O4'	1.97	0.63
2:AA:1342:A:C4'	2:AA:1343:G:OP1	2.45	0.63
2:AA:1388:G:O2'	2:AA:1525:G:C5'	2.41	0.63
2:AA:1466:G:N3	2:AA:1547:C:N4	2.47	0.63
2:AA:1535:U:OP1	2:AA:1536:A:O5'	2.16	0.63
2:AA:1557:C:H3'	2:AA:1558:A:C5'	2.29	0.63
2:AA:1647:G:H4'	2:AA:1648:C:O5'	1.97	0.63
2:AA:1893:C:H2'	2:AA:1894:C:C6	2.33	0.63
2:AA:1965:C:C5'	2:AA:1966:A:O5'	2.46	0.63
2:AA:1697:G:O2'	2:AA:1978:A:H5''	1.99	0.63
2:AA:199:A:C6	2:AA:2434:A:N1	2.67	0.63
2:AA:2051:A:N6	2:AA:2614:A:C8	2.65	0.63
2:AA:2317:C:H2'	2:AA:2318:G:C8	2.34	0.63
2:AA:241:A:N3	2:AA:241:A:H2'	2.12	0.63
2:AA:242:G:H2'	2:AA:243:U:OP2	1.98	0.63
2:AA:792:G:C5	2:AA:2440:C:C2	2.87	0.63
2:AA:2469:A:C2	2:AA:2482:G:H1'	2.33	0.63
2:AA:2486:G:N2	2:AA:2487:G:C4	2.66	0.63
2:AA:270(H):C:C4	2:AA:270(R):G:N1	2.66	0.63
2:AA:339:U:C5	2:AA:340:A:N6	2.67	0.63
2:AA:507:A:H4'	2:AA:509:C:C6	2.33	0.63
2:AA:527:C:OP1	2:AA:527:C:H4'	1.99	0.63
2:AA:579:G:C2	2:AA:1262:A:C6	2.86	0.63
2:AA:59:U:O4'	2:AA:73:A:N7	2.32	0.63
2:AA:603:A:N1	2:AA:625:G:N7	2.45	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:640:C:N4	2:AA:641:C:N4	2.47	0.63
2:AA:697:C:H2'	2:AA:698:C:C6	2.33	0.63
2:AA:71:A:O2'	2:AA:72:U:H5''	1.98	0.63
2:AA:838:C:O2'	2:AA:839:U:C5'	2.47	0.63
2:AA:85:G:H1'	2:AA:103:A:C2	2.34	0.63
2:AA:929:G:H21	23:AX:42:ALA:C	2.02	0.63
3:AC:62:VAL:HB	3:AC:195:ALA:CB	2.27	0.63
4:AD:174:ARG:CZ	4:AD:174:ARG:HB2	2.28	0.63
5:AE:39:GLN:HB2	5:AE:174:LEU:HD21	1.81	0.63
2:AA:2511:U:OP1	5:AE:223:LYS:HE2	1.99	0.63
7:AG:28:GLY:HA2	7:AG:69:ILE:HD13	1.80	0.63
8:AH:101:LYS:HG2	8:AH:115:GLU:HB2	1.79	0.63
8:AH:124:VAL:O	8:AH:124:VAL:HG22	1.98	0.63
8:AH:73:ASN:O	8:AH:74:MET:C	2.37	0.63
2:AA:1084:A:O4'	9:AI:38:ALA:N	2.29	0.63
11:AL:105:ILE:CD1	11:AL:139:VAL:HG12	2.28	0.63
11:AL:96:ILE:HG23	11:AL:138:GLU:OE1	1.98	0.63
2:AA:2275:C:O2'	15:AP:103:ALA:CB	2.46	0.63
15:AP:136:TRP:O	15:AP:137:ARG:C	2.36	0.63
15:AP:140:TYR:CZ	15:AP:149:ILE:HA	2.32	0.63
21:AV:19:ILE:CG1	21:AV:79:ILE:HG12	2.29	0.63
21:AV:4:THR:O	21:AV:5:ALA:HB3	1.98	0.63
23:AX:21:ALA:O	23:AX:25:ALA:HB2	1.98	0.63
34:BA:1111:A:C2	34:BA:1112:C:C2	2.87	0.63
34:BA:1155:G:H2'	34:BA:1156:G:H8	1.62	0.63
34:BA:1126:U:OP2	34:BA:1281:U:O2	2.16	0.63
34:BA:1345:U:C2	34:BA:1377:A:N1	2.67	0.63
34:BA:1372:U:H2'	34:BA:1373:G:O4'	1.99	0.63
34:BA:1520:G:H2'	34:BA:1521:G:H8	1.63	0.63
34:BA:225:C:C2'	34:BA:226:G:H5'	2.28	0.63
34:BA:236:G:C2'	34:BA:237:C:C6	2.78	0.63
34:BA:264:U:H2'	34:BA:264:U:O2	1.98	0.63
34:BA:544:G:C4	34:BA:545:C:C6	2.86	0.63
34:BA:778:G:O2'	34:BA:779:C:C5'	2.45	0.63
34:BA:809:G:C2	34:BA:810:C:C6	2.87	0.63
34:BA:933:G:C2'	34:BA:934:C:H5'	2.27	0.63
35:BB:2:C:N4	35:BB:71:G:C6	2.64	0.63
35:BC:43:G:H2'	35:BC:44:A:H8	1.63	0.63
37:BE:142:LEU:C	37:BE:142:LEU:HD23	2.19	0.63
34:BA:1118:C:P	44:BL:104:ARG:HB2	2.38	0.63
51:BS:20:VAL:CG2	51:BS:32:TYR:HD2	2.11	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BS:68:ASP:O	51:BS:70:ALA:N	2.32	0.63
52:BT:97:SER:C	52:BT:98:LEU:HG	2.19	0.63
55:BW:36:LEU:HD12	55:BW:62:LEU:CD1	2.28	0.63
55:BW:89:ARG:O	55:BW:93:GLU:HG3	1.98	0.63
4:AD:169:LYS:HZ2	4:AD:169:LYS:N	1.96	0.63
8:AH:29:LYS:HE3	8:AH:80:LYS:HA	1.79	0.63
44:BL:89:ASN:O	44:BL:91:ASP:N	2.31	0.63
24:A0:38:VAL:HG23	24:A0:110:PRO:O	1.99	0.63
24:A0:82:GLU:HB3	24:A0:83:ILE:HD13	1.80	0.63
24:A0:90:ARG:HB2	24:A0:94:TYR:CZ	2.34	0.63
26:A2:67:LYS:HE3	26:A2:94:LYS:HD2	1.78	0.63
2:AA:2261:C:OP2	27:A3:14:ARG:NE	2.32	0.63
27:A3:37:LEU:HD13	27:A3:69:PHE:CB	2.08	0.63
2:AA:1364:G:C4	28:A4:3:LYS:NZ	2.67	0.63
2:AA:2046:G:H1'	29:A5:22:HIS:ND1	2.14	0.63
31:A7:25:LYS:HE2	31:A7:25:LYS:N	2.12	0.63
2:AA:1007:C:H2'	2:AA:1008:C:H5	1.63	0.63
2:AA:1057:A:N1	2:AA:1082:U:O4	2.32	0.63
2:AA:1024:G:H1	2:AA:1138:G:H1	1.46	0.63
2:AA:1189:A:C3'	2:AA:1190:G:H5'	2.28	0.63
2:AA:1475:G:C6	2:AA:1477:A:N6	2.67	0.63
2:AA:1609:A:O2'	2:AA:1616:A:H4'	1.99	0.63
2:AA:1826:G:P	4:AD:227:VAL:HG21	2.39	0.63
2:AA:1858:G:N2	2:AA:1885:A:C8	2.66	0.63
2:AA:1947:C:H2'	2:AA:1948:G:H5'	1.80	0.63
2:AA:1995:U:C6	2:AA:1995:U:H5''	2.29	0.63
2:AA:2209:C:N4	2:AA:2215:G:N1	2.29	0.63
2:AA:221:A:H3'	2:AA:221:A:C8	2.33	0.63
2:AA:224:G:C2	2:AA:225:A:H1'	2.34	0.63
2:AA:2286:A:C2	30:A6:27:ASN:HB3	2.31	0.63
2:AA:2459:A:C8	2:AA:2460:U:C5	2.86	0.63
2:AA:2508:G:O3'	2:AA:2555:U:H5'	1.99	0.63
2:AA:2623:G:O2'	2:AA:2624:G:H5'	1.98	0.63
2:AA:2785:C:C4'	5:AE:99:VAL:HG13	2.28	0.63
2:AA:288:C:C5	2:AA:289:A:H4'	2.34	0.63
2:AA:28:A:H1'	2:AA:513:A:C2	2.33	0.63
2:AA:317:G:C2	2:AA:318:C:C2	2.87	0.63
2:AA:322:A:C2	2:AA:341:G:C4	2.86	0.63
2:AA:379:G:C6	2:AA:380:U:C5	2.87	0.63
2:AA:396:G:H1'	28:A4:39:VAL:HG11	1.80	0.63
2:AA:780:G:O6	4:AD:234:HIS:CE1	2.51	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:864:G:C2'	2:AA:865:C:C1'	2.76	0.63
2:AA:953:A:N6	2:AA:965:C:C4	2.67	0.63
2:AA:963:U:H2'	2:AA:964:C:C6	2.33	0.63
3:AC:133:PRO:CG	3:AC:134:ARG:H	2.10	0.63
4:AD:140:VAL:O	4:AD:160:SER:CB	2.46	0.63
5:AE:225:LYS:CB	5:AE:226:HIS:ND1	2.60	0.63
5:AE:81:VAL:HB	5:AE:100:TRP:HZ3	1.63	0.63
7:AG:27:ILE:HG22	7:AG:29:HIS:H	1.64	0.63
7:AG:21:VAL:HG23	7:AG:76:ARG:HA	1.81	0.63
8:AH:7:PRO:N	8:AH:50:THR:HG1	1.97	0.63
8:AH:87:GLU:CG	8:AH:162:ARG:HB2	2.29	0.63
2:AA:270(N):G:H5"	10:AK:53:LYS:HZ1	1.62	0.63
10:AK:8:ASP:HA	10:AK:12:LYS:N	2.13	0.63
12:AM:41:ALA:HB1	12:AM:75:PRO:HB2	1.80	0.63
2:AA:2684:U:H1'	13:AN:70:ARG:NH2	2.13	0.63
15:AP:22:GLY:O	15:AP:23:ILE:HD12	1.98	0.63
16:AQ:115:VAL:O	16:AQ:118:ILE:HG22	1.97	0.63
17:AR:5:GLU:HB3	17:AR:53:ASP:OD2	1.98	0.63
2:AA:1339:G:OP1	19:AT:11:THR:HG21	1.99	0.63
20:AU:44:ALA:HB1	20:AU:65:VAL:CG2	2.28	0.63
21:AV:142:ASN:H	21:AV:171:VAL:HG21	1.64	0.63
21:AV:40:ASP:HB2	21:AV:41:ARG:NH2	2.13	0.63
22:AW:20:LEU:HA	22:AW:23:LEU:HG	1.79	0.63
23:AX:7:LYS:O	23:AX:54:VAL:CB	2.32	0.63
34:BA:1101:A:O2'	34:BA:1102:A:P	2.55	0.63
34:BA:1127:G:H22	34:BA:1144:G:H22	1.46	0.63
34:BA:1322:C:C4'	34:BA:1323:G:OP1	2.47	0.63
34:BA:1451:A:H5"	34:BA:1452:C:H5	1.63	0.63
34:BA:611:A:N6	34:BA:629:G:N1	2.47	0.63
34:BA:70:G:H2'	34:BA:73:C:H6	1.63	0.63
34:BA:710:G:C2'	34:BA:711:G:H5'	2.28	0.63
34:BA:781:A:H2'	34:BA:782:A:C4'	2.29	0.63
34:BA:920:U:C2	34:BA:921:U:C6	2.86	0.63
34:BA:936:C:H2'	34:BA:937:A:H5'	1.80	0.63
34:BA:975:A:C8	34:BA:1365:G:N2	2.65	0.63
35:BB:75:C:C5	35:BB:76:A:H2	2.15	0.63
35:BC:47:U:H5	35:BC:49:C:H5"	1.59	0.63
35:BC:58:A:H2'	35:BC:61:C:C5	2.32	0.63
37:BE:115:LEU:CB	37:BE:149:LEU:HD13	2.29	0.63
37:BE:171:ALA:O	37:BE:174:VAL:N	2.31	0.63
37:BE:17:PHE:HD1	37:BE:18:GLY:N	1.96	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:47:THR:C	37:BE:48:MET:SD	2.76	0.63
37:BE:61:LEU:HD11	37:BE:67:THR:O	1.99	0.63
38:BF:134:ILE:O	38:BF:138:VAL:HG23	1.99	0.63
38:BF:157:ILE:HB	38:BF:164:ARG:CD	2.29	0.63
39:BG:56:VAL:HG12	39:BG:57:ARG:H	1.64	0.63
40:BH:80:ILE:N	40:BH:80:ILE:HD12	2.13	0.63
41:BI:11:ASN:HD21	41:BI:13:ASN:ND2	1.97	0.63
44:BL:28:VAL:HG21	44:BL:33:PHE:HA	1.80	0.63
34:BA:1371:G:H5''	44:BL:68:GLY:C	2.18	0.63
46:BN:50:TYR:CG	46:BN:54:ARG:HB3	2.33	0.63
46:BN:95:ILE:HA	46:BN:98:LEU:CG	2.28	0.63
47:BO:59:ARG:HD3	47:BO:65:GLU:HG3	1.80	0.63
51:BS:57:ARG:O	51:BS:60:LEU:HB2	1.97	0.63
52:BT:38:ARG:CG	52:BT:39:SER:N	2.62	0.63
48:BP:120:LYS:CG	48:BP:121:LYS:H	2.11	0.63
35:BB:1:G:C2	35:BB:73:A:N3	2.66	0.63
25:A1:115:ASN:O	25:A1:116:ALA:C	2.36	0.63
26:A2:20:ILE:HD13	26:A2:67:LYS:HZ3	1.63	0.63
27:A3:41:ARG:O	27:A3:42:GLY:O	2.17	0.63
28:A4:11:PRO:O	28:A4:12:CYS:CB	2.47	0.63
29:A5:42:SER:O	29:A5:43:HIS:HB2	1.98	0.63
32:A8:13:ARG:O	32:A8:14:ILE:CB	2.43	0.63
2:AA:1015:G:H2'	2:AA:1016:G:H8	1.64	0.63
2:AA:1022:G:C2'	2:AA:1025:G:O6	2.40	0.63
2:AA:1044:G:H4'	2:AA:1047:G:H4'	1.81	0.63
2:AA:1062:G:N2	11:AL:92:PRO:CG	2.59	0.63
2:AA:1092:C:N4	2:AA:1093:G:C4	2.67	0.63
2:AA:142(A):A:C5	2:AA:1143:A:C8	2.87	0.63
2:AA:1244:G:O2'	2:AA:1245:G:H5'	1.97	0.63
2:AA:1246:A:N1	2:AA:1247:A:N3	2.47	0.63
2:AA:1332:G:C5	2:AA:1609:A:N6	2.67	0.63
2:AA:1423:G:H2'	2:AA:1423:G:N3	2.13	0.63
2:AA:1569:A:C2	2:AA:1570:A:C5	2.86	0.63
2:AA:1625:C:C2	2:AA:1626:G:H1'	2.34	0.63
2:AA:1782:C:O2	2:AA:2609:U:O4'	2.16	0.63
2:AA:1916:A:H8	2:AA:1916:A:O5'	1.82	0.63
2:AA:1934:C:H5'	2:AA:1974:C:HO2'	1.64	0.63
2:AA:2046:G:H5'	29:A5:19:ARG:HA	1.80	0.63
2:AA:2047:U:O2'	2:AA:2048:G:C5'	2.46	0.63
2:AA:2404:C:C5	2:AA:2414:G:N2	2.67	0.63
2:AA:2481:G:O2'	2:AA:2482:G:H5'	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:248:G:N3	2:AA:2431:U:H4'	2.14	0.63
2:AA:2498:C:O2	2:AA:2498:C:H2'	1.97	0.63
2:AA:252:G:N3	2:AA:253:C:C6	2.67	0.63
2:AA:2588:G:H2'	2:AA:2589:A:H5'	1.80	0.63
2:AA:2635:C:O2	2:AA:2636:U:O4'	2.17	0.63
2:AA:2705:A:H8	2:AA:2705:A:O5'	1.81	0.63
2:AA:2711:A:OP2	2:AA:2712:U:O3'	2.16	0.63
2:AA:2685:G:H1	2:AA:2724:C:H42	1.46	0.63
2:AA:2792:G:H1	2:AA:2804:C:N4	1.96	0.63
2:AA:280:C:O2	2:AA:360:G:N1	2.25	0.63
2:AA:2893:G:O3'	2:AA:2894:G:H4'	1.99	0.63
2:AA:107:C:H4'	2:AA:293:U:C2	2.33	0.63
2:AA:380:U:O4	2:AA:394:A:N1	2.31	0.63
2:AA:642:G:N2	2:AA:646:A:N6	2.38	0.63
2:AA:659:C:O2'	2:AA:660:G:H5'	1.98	0.63
2:AA:674:G:H4'	6:AF:69:HIS:HA	1.80	0.63
2:AA:695:G:H2'	2:AA:696:G:H8	1.64	0.63
3:AC:127:LEU:HD23	3:AC:130:ILE:HD13	1.79	0.63
4:AD:81:GLU:HG3	4:AD:92:LEU:HD13	1.79	0.63
5:AE:235:ILE:CG2	5:AE:236:GLY:N	2.61	0.63
5:AE:46:ALA:O	5:AE:305:LYS:HD3	1.97	0.63
6:AF:115:LEU:HB2	6:AF:246:ARG:NH1	2.11	0.63
8:AH:53:ARG:HH12	8:AH:56:ASP:HA	1.61	0.63
8:AH:70:LEU:O	8:AH:73:ASN:HB2	1.99	0.63
8:AH:98:GLN:CD	8:AH:103:VAL:HG21	2.17	0.63
9:AI:19:ALA:HB1	9:AJ:45:ALA:C	2.19	0.63
9:AJ:63:LEU:CD2	9:AJ:118:LEU:HD13	2.29	0.63
12:AM:52:GLN:O	12:AM:56:LYS:HG2	1.99	0.63
15:AP:26:LYS:O	15:AP:28:ILE:CG1	2.46	0.63
15:AP:89:PRO:C	15:AP:90:PHE:CD1	2.72	0.63
17:AR:5:GLU:OE2	17:AR:56:ARG:NH2	2.32	0.63
18:AS:36:LEU:CD1	18:AS:47:VAL:HG12	2.29	0.63
20:AU:27:LEU:HD22	20:AU:31:LEU:HD12	1.79	0.63
20:AU:66:ASP:OD2	20:AU:72:ILE:HA	1.98	0.63
21:AV:103:ARG:N	21:AV:103:ARG:CD	2.62	0.63
15:AP:32:LYS:NZ	21:AV:172:LEU:HD11	2.14	0.63
21:AV:56:VAL:HG12	21:AV:57:GLU:HG2	1.79	0.63
2:AA:929:G:O2'	23:AX:43:ILE:HG12	1.97	0.63
36:B1:59:A:H3'	36:B1:59:A:H8	1.62	0.63
34:BA:1087:G:C4	34:BA:1088:G:N7	2.67	0.63
34:BA:1120:G:H1	34:BA:1153:C:H42	1.44	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1209:C:O2'	34:BA:1210:C:H5'	1.98	0.63
34:BA:1347:G:O2'	34:BA:1348:U:OP2	2.16	0.63
34:BA:137:C:C2	34:BA:227:G:N2	2.67	0.63
34:BA:1450:U:H1'	34:BA:1454:G:N2	2.14	0.63
34:BA:267:C:N4	34:BA:268:C:H41	1.95	0.63
34:BA:707:C:H2'	34:BA:708:C:O5'	1.98	0.63
34:BA:872:A:C5	34:BA:874:G:C8	2.86	0.63
35:BB:34:G:O2'	35:BB:35:A:C5'	2.46	0.63
35:BB:6:U:C2	35:BB:68:U:O2	2.52	0.63
35:BC:17:U:O5'	35:BC:19:G:OP2	2.17	0.63
37:BE:196:LEU:HD12	37:BE:197:VAL:N	2.14	0.63
37:BE:68:ILE:HB	37:BE:70:PHE:HE1	1.61	0.63
38:BF:12:LEU:HD13	38:BF:17:ASP:CA	2.29	0.63
40:BH:109:ILE:CG1	40:BH:135:THR:HG21	2.27	0.63
41:BI:1:MET:SD	41:BI:68:PRO:CG	2.86	0.63
41:BI:84:ASN:O	41:BI:86:ARG:HG2	1.99	0.63
42:BJ:29:LYS:NZ	42:BJ:102:ARG:HE	1.95	0.63
42:BJ:12:LEU:HD23	42:BJ:24:THR:CG2	2.28	0.63
42:BJ:136:LYS:O	42:BJ:140:ASP:OD1	2.17	0.63
34:BA:1373:G:H5'	42:BJ:36:LYS:HB2	1.80	0.63
42:BJ:69:VAL:HG21	42:BJ:134:ALA:CB	2.27	0.63
42:BJ:74:GLU:HB3	42:BJ:91:VAL:CG2	2.27	0.63
43:BK:11:THR:C	43:BK:13:ILE:N	2.47	0.63
43:BK:46:LYS:HG3	43:BK:64:LYS:CB	2.29	0.63
44:BL:12:GLU:H	44:BL:104:ARG:NH2	1.96	0.63
47:BO:35:GLY:O	47:BO:82:VAL:HG13	1.98	0.63
10:AK:59:ALA:O	10:AK:62:LEU:HB2	1.98	0.63
8:AH:155:PRO:O	8:AH:156:TYR:C	2.36	0.63
24:A0:66:VAL:O	24:A0:70:LEU:HG	1.97	0.63
25:A1:11:ARG:CG	25:A1:12:ARG:N	2.62	0.63
25:A1:34:ASN:O	25:A1:38:THR:CG2	2.46	0.63
25:A1:31:GLN:O	25:A1:35:ALA:N	2.27	0.63
26:A2:36:LYS:HA	26:A2:59:GLU:O	1.98	0.63
26:A2:42:GLY:O	26:A2:48:GLY:HA2	1.99	0.63
28:A4:46:GLU:C	28:A4:47:GLU:HG3	2.17	0.63
2:AA:1309:G:C5'	31:A7:7:PRO:O	2.46	0.63
2:AA:1325:G:OP2	2:AA:1616:A:N7	2.32	0.63
2:AA:1534:G:H21	2:AA:1535:U:H5'	1.63	0.63
2:AA:1640:C:H2'	2:AA:1641:A:C8	2.34	0.63
2:AA:1670:C:H2'	2:AA:1671:U:H5'	1.78	0.63
2:AA:1684:C:H2'	2:AA:1685:C:C6	2.34	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1697:G:O6	2:AA:1698:A:C6	2.52	0.63
2:AA:1824:G:O2'	2:AA:1825:A:H5'	1.99	0.63
2:AA:1941:C:O2	2:AA:1942:C:H5'	1.98	0.63
2:AA:2046:G:H2'	2:AA:2047:U:C5	2.34	0.63
2:AA:2048:G:C2'	2:AA:2049:G:O5'	2.45	0.63
2:AA:2067:G:H8	2:AA:2067:G:O5'	1.82	0.63
2:AA:2137:C:H5	2:AA:2154:G:H21	1.44	0.63
2:AA:2208:U:H3	2:AA:2216:G:H1	1.46	0.63
2:AA:2261:C:OP2	27:A3:14:ARG:CG	2.47	0.63
2:AA:2334:G:O2'	2:AA:2335:A:OP1	2.14	0.63
2:AA:246:C:N4	2:AA:247:G:C6	2.67	0.63
2:AA:2639:A:C4	2:AA:2778:A:C2	2.87	0.63
2:AA:28:A:C2	2:AA:29:U:O4'	2.51	0.63
2:AA:295:G:H1	2:AA:344:G:N3	1.36	0.63
2:AA:476:G:C4'	2:AA:505:A:H2	2.11	0.63
2:AA:65:C:C2	2:AA:66:C:H5	2.17	0.63
2:AA:768:G:O2'	2:AA:769:G:H5'	1.99	0.63
2:AA:78:A:H2'	2:AA:79:G:C8	2.33	0.63
2:AA:823:G:C2'	2:AA:824:A:H8	2.02	0.63
2:AA:864:G:O2'	2:AA:865:C:H1'	1.99	0.63
2:AA:957:A:N6	2:AA:959:A:N3	2.46	0.63
2:AA:976:C:N3	2:AA:987:G:N2	2.44	0.63
1:AB:52:A:H2'	1:AB:53:A:O4'	1.98	0.63
1:AB:80:U:O2	1:AB:81:G:N7	2.31	0.63
2:AA:2116:G:OP2	3:AC:126:LYS:CA	2.47	0.63
2:AA:2116:G:P	3:AC:126:LYS:HB2	2.39	0.63
3:AC:28:LEU:O	3:AC:31:GLU:HB2	1.98	0.63
4:AD:85:ASN:C	4:AD:86:ARG:NE	2.53	0.63
4:AD:92:LEU:HD21	4:AD:102:TYR:CZ	2.33	0.63
5:AE:199:ALA:CA	5:AE:314:ALA:HA	2.28	0.63
7:AG:103:ASN:C	7:AG:104:PHE:CG	2.72	0.63
7:AG:107:GLY:O	7:AG:129:ASP:N	2.31	0.63
7:AG:22:VAL:HG23	7:AG:131:THR:O	1.99	0.63
7:AG:96:SER:O	7:AG:98:PHE:N	2.28	0.63
8:AH:74:MET:O	8:AH:78:VAL:HG23	1.97	0.63
9:AJ:77:VAL:HG13	9:AJ:102:ILE:CG1	2.29	0.63
9:AI:1:MET:CE	11:AL:10:LYS:HZ1	2.11	0.63
12:AM:14:ALA:O	12:AM:15:ARG:HB2	1.99	0.63
13:AN:1:MET:HB3	13:AN:67:ARG:HD2	1.80	0.63
13:AN:61:VAL:HG21	13:AN:111:PHE:CZ	2.33	0.63
14:AO:72:ASN:O	14:AO:75:LEU:CB	2.46	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:133:GLU:HG3	15:AP:134:PHE:N	2.14	0.63
2:AA:495:G:H21	18:AS:61:ASN:HD21	1.47	0.63
18:AS:59:VAL:HA	18:AS:63:ASP:HA	1.79	0.63
19:AT:23:LYS:HG2	19:AT:67:ARG:HA	1.79	0.63
21:AV:154:LEU:C	21:AV:154:LEU:HD23	2.20	0.63
21:AV:37:LYS:O	21:AV:41:ARG:NE	2.32	0.63
34:BA:1018:C:C4	34:BA:1019:C:C5	2.87	0.63
34:BA:1086:U:C4	34:BA:1099:G:O6	2.52	0.63
34:BA:1095:U:C5'	34:BA:1109:C:O2	2.46	0.63
34:BA:1148:U:O2'	34:BA:1149:C:H5'	1.99	0.63
34:BA:960:U:N3	34:BA:1225:A:C5	2.66	0.63
34:BA:1405:G:H2'	34:BA:1406:U:H6	1.64	0.63
2:AA:1948:G:O4'	34:BA:1483:A:H1'	1.98	0.63
34:BA:1490:C:H2'	34:BA:1491:G:O5'	1.99	0.63
34:BA:399:G:C4	34:BA:400:C:C5	2.87	0.63
34:BA:601:C:H2'	34:BA:602:A:C8	2.33	0.63
34:BA:643:C:H5'	43:BK:31:PHE:CD1	2.34	0.63
34:BA:687:A:O2'	34:BA:688:G:OP2	2.15	0.63
34:BA:707:C:N3	34:BA:708:C:C5	2.67	0.63
34:BA:757:U:O3'	34:BA:821:G:N2	2.32	0.63
34:BA:881:G:O2'	34:BA:882:C:H5'	1.98	0.63
34:BA:992:U:O2'	34:BA:993:G:OP2	2.15	0.63
35:BB:34:G:O5'	35:BB:34:G:C8	2.48	0.63
35:BB:53:G:C5	35:BB:54:U:C4	2.87	0.63
35:BC:17:U:H5''	35:BC:18:G:O3'	1.98	0.63
37:BE:82:ARG:HB2	37:BE:94:ASN:ND2	2.13	0.63
38:BF:159:GLY:HA2	38:BF:193:TYR:CE1	2.33	0.63
38:BF:73:PRO:CG	38:BF:105:GLU:OE2	2.47	0.63
42:BJ:155:ARG:O	42:BJ:156:TRP:CB	2.47	0.63
43:BK:100:ILE:HG21	43:BK:125:ARG:NH2	2.14	0.63
43:BK:11:THR:O	43:BK:13:ILE:N	2.32	0.63
34:BA:591:U:P	43:BK:30:ARG:CZ	2.87	0.63
34:BA:877:C:O2'	43:BK:3:THR:CB	2.42	0.63
43:BK:40:ALA:O	43:BK:42:GLU:N	2.31	0.63
51:BS:51:VAL:HG11	51:BS:74:LEU:HD23	1.81	0.63
51:BS:49:LEU:HD11	51:BS:51:VAL:HG23	1.80	0.63
52:BT:80:GLY:O	52:BT:81:ARG:C	2.35	0.63
55:BW:73:HIS:N	55:BW:76:ALA:HB3	2.13	0.63
56:BX:9:ARG:NH1	56:BX:21:TYR:CG	2.66	0.63
41:BI:36:ARG:CZ	41:BI:36:ARG:HB3	2.29	0.63
36:B1:38:C:H4'	36:B1:39:A:C2	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A1:69:ALA:HB3	25:A1:76:TYR:HH	1.64	0.63
26:A2:39:PHE:O	26:A2:40:VAL:HG22	1.99	0.63
26:A2:20:ILE:CG2	26:A2:67:LYS:HD2	2.29	0.63
32:A8:30:ARG:HB3	32:A8:44:LYS:HZ2	1.62	0.63
2:AA:1060:U:P	11:AL:74:PRO:HA	2.38	0.63
2:AA:1063:G:N7	2:AA:1070:A:P	2.71	0.63
2:AA:1081:U:P	11:AL:126:LYS:HD3	2.38	0.63
2:AA:109:G:N2	2:AA:110:G:C1'	2.58	0.63
2:AA:1323:U:H2'	2:AA:1324:G:C5'	2.26	0.63
2:AA:1343:G:C2	2:AA:1405:U:N3	2.67	0.63
2:AA:1406:U:HO2'	2:AA:1407:C:P	2.22	0.63
2:AA:1465:G:C2	2:AA:1466:G:C4	2.87	0.63
2:AA:1525:G:H2'	2:AA:1526:G:C8	2.34	0.63
2:AA:1670:C:H3'	2:AA:1671:U:C6	2.33	0.63
2:AA:1672:C:C5	2:AA:1673:U:C6	2.86	0.63
2:AA:1697:G:C3'	2:AA:1698:A:C5'	2.75	0.63
2:AA:1706:U:O2'	2:AA:1707:G:OP1	2.17	0.63
2:AA:1773:A:H2'	2:AA:1774:C:O4'	1.98	0.63
2:AA:1803:A:O5'	2:AA:1803:A:H8	1.82	0.63
2:AA:188:G:O2'	2:AA:189:G:H5'	1.98	0.63
2:AA:1914:C:P	2:AA:1916:A:N6	2.71	0.63
2:AA:1923:U:H2'	2:AA:1924:C:H6	1.61	0.63
2:AA:1951:U:C2'	2:AA:1951:U:O2	2.46	0.63
2:AA:2064:C:O2	2:AA:2064:C:H2'	1.98	0.63
2:AA:2121:G:C2'	2:AA:2122:U:H6	1.98	0.63
2:AA:2137:C:H3'	2:AA:2138:C:H5	1.59	0.63
2:AA:2136:C:N3	2:AA:2155:G:N3	2.47	0.63
2:AA:2269:A:C8	2:AA:2270:G:C8	2.87	0.63
2:AA:2270:G:O6	2:AA:2271:G:N2	2.32	0.63
2:AA:2335:A:O2'	2:AA:2336:A:C8	2.48	0.63
2:AA:2422:A:N3	2:AA:2424:C:C5	2.67	0.63
2:AA:2630:G:H5'	2:AA:2631:G:OP2	1.98	0.63
2:AA:270:A:C6	2:AA:370:G:N9	2.67	0.63
2:AA:2861:G:H2'	2:AA:2862:G:O5'	1.99	0.63
2:AA:271(C):U:O4	2:AA:421:U:C6	2.52	0.63
2:AA:603:A:C2	2:AA:625:G:C5	2.87	0.63
2:AA:705:A:N6	2:AA:727:A:N9	2.47	0.63
2:AA:944:G:H5''	2:AA:945:A:H5''	1.81	0.63
2:AA:996:A:C2	2:AA:997:G:C8	2.87	0.63
3:AC:112:ALA:CB	3:AC:156:ILE:HD13	2.29	0.63
4:AD:140:VAL:HG11	4:AD:189:ALA:CB	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:92:LEU:N	4:AD:92:LEU:HD12	2.14	0.63
6:AF:114:ALA:O	6:AF:117:ALA:HB3	1.99	0.63
6:AF:115:LEU:HA	6:AF:118:THR:HG23	1.80	0.63
7:AG:14:ARG:HD2	7:AG:14:ARG:H	1.64	0.63
8:AH:17:THR:O	8:AH:23:VAL:HA	1.98	0.63
9:AI:57:THR:HB	9:AJ:107:SER:HG	1.62	0.63
11:AL:79:LEU:HD11	11:AL:137:ILE:HG21	1.81	0.63
11:AL:89:SER:O	11:AL:90:SER:OG	2.16	0.63
12:AM:135:ILE:O	12:AM:139:LEU:HD13	1.99	0.63
12:AM:44:ALA:HB3	12:AM:132:LEU:HD22	1.81	0.63
2:AA:558:G:OP1	12:AM:91:LYS:HB3	1.98	0.63
14:AO:126:SER:OG	14:AO:129:ALA:CB	2.46	0.63
15:AP:63:ALA:CA	15:AP:70:ARG:HH22	2.10	0.63
17:AR:50:GLU:C	17:AR:55:ALA:HB3	2.18	0.63
18:AS:36:LEU:HD13	18:AS:48:ALA:HA	1.80	0.63
19:AT:17:ASP:OD2	19:AT:25:GLN:HG3	1.99	0.63
20:AU:61:GLU:O	20:AU:74:VAL:HG13	1.99	0.63
21:AV:19:ILE:CG2	21:AV:39:PHE:HE1	2.11	0.63
34:BA:1124:G:H1	34:BA:1149:C:N4	1.92	0.63
34:BA:1262:C:H2'	34:BA:1263:C:C6	2.34	0.63
34:BA:1502:A:C6	34:BA:1504:G:C2	2.87	0.63
34:BA:1521:G:C4	34:BA:1522:U:C5	2.87	0.63
34:BA:815:A:C1'	34:BA:1529:G:O6	2.47	0.63
34:BA:429:U:H5'	34:BA:430:A:OP1	1.98	0.63
34:BA:70:G:C4	34:BA:73:C:C5	2.86	0.63
34:BA:727:G:C8	34:BA:727:G:H3'	2.34	0.63
34:BA:765:G:N2	34:BA:816:A:C2	2.67	0.63
34:BA:950:U:O2	34:BA:1231:G:N2	2.26	0.63
34:BA:956:U:O2	34:BA:957:U:C6	2.52	0.63
35:BB:57:G:C2'	35:BB:58:A:C5'	2.74	0.63
37:BE:161:ALA:HA	37:BE:183:PRO:HB2	1.81	0.63
37:BE:215:LEU:O	37:BE:215:LEU:HD13	1.99	0.63
37:BE:17:PHE:HB2	37:BE:42:ILE:HG22	1.81	0.63
37:BE:72:GLY:HA2	37:BE:165:VAL:CG2	2.29	0.63
38:BF:28:GLN:N	38:BF:30:ARG:HH12	1.97	0.63
39:BG:120:LEU:HD21	39:BG:125:HIS:O	1.99	0.63
39:BG:42:GLN:HG2	39:BG:43:HIS:CE1	2.33	0.63
39:BG:56:VAL:HG12	39:BG:57:ARG:HD2	1.81	0.63
39:BG:58:LEU:HD21	39:BG:62:GLN:HG2	1.81	0.63
40:BH:109:ILE:CG2	40:BH:110:LEU:HD23	2.29	0.63
40:BH:151:LEU:CD2	43:BK:67:PRO:HD3	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BL:78:LYS:HA	44:BL:81:ILE:HD12	1.81	0.63
50:BR:16:ALA:CB	50:BR:21:ASP:HB3	2.29	0.63
50:BR:70:LEU:CD1	50:BR:78:TYR:HB2	2.29	0.63
51:BS:4:ILE:HG13	51:BS:66:PRO:CB	2.29	0.63
52:BT:41:LYS:O	52:BT:42:TYR:CD1	2.52	0.63
2:AA:1041:C:N4	2:AA:1114:G:N1	2.45	0.63
35:BB:21:A:H3'	35:BB:21:A:C8	2.34	0.63
24:A0:56:LYS:O	24:A0:58:GLY:N	2.31	0.62
26:A2:90:PHE:O	26:A2:91:THR:HG23	1.97	0.62
29:A5:33:CYS:HB3	29:A5:34:PRO:CD	2.27	0.62
29:A5:40:LYS:HZ3	29:A5:46:CYS:N	1.96	0.62
2:AA:1019:U:C2'	2:AA:1020:A:H5'	2.24	0.62
2:AA:1025:G:N3	2:AA:1025:G:H2'	2.13	0.62
2:AA:1071:G:H2'	2:AA:1072:C:H5'	1.81	0.62
2:AA:1141:U:H5'	2:AA:1141:U:H6	1.64	0.62
2:AA:1223:C:N3	2:AA:1227:A:N1	2.47	0.62
2:AA:1289:C:O2'	2:AA:1330:C:H4'	1.98	0.62
2:AA:1387:C:H42	2:AA:1400:G:H1	1.45	0.62
2:AA:1439:A:N1	2:AA:1553:A:C8	2.67	0.62
2:AA:1324:G:C1'	2:AA:1616:A:H62	2.12	0.62
2:AA:1693:U:H5''	2:AA:1694:C:OP2	1.99	0.62
2:AA:1780:A:O5'	2:AA:1782:C:OP1	2.17	0.62
2:AA:177:G:C2'	2:AA:178:G:OP1	2.47	0.62
2:AA:1364:G:OP1	2:AA:1809:A:N6	2.32	0.62
2:AA:1967:C:H2'	2:AA:1968:G:C5'	2.28	0.62
2:AA:961:C:N4	2:AA:2031:A:N3	2.47	0.62
2:AA:2078:C:C2	2:AA:2079:U:C6	2.87	0.62
2:AA:190:A:N6	2:AA:207:A:C8	2.67	0.62
2:AA:2096:U:O2'	2:AA:2097:C:H5'	1.99	0.62
2:AA:2210:G:C5	4:AD:148:GLY:HA3	2.34	0.62
2:AA:952:G:N2	2:AA:2267:A:H62	1.97	0.62
2:AA:2320:A:C2	2:AA:2333:A:C4	2.87	0.62
2:AA:2436:G:C5	2:AA:2437:U:C5	2.87	0.62
2:AA:2564:A:C6	2:AA:2565:A:C6	2.86	0.62
2:AA:2579:C:N4	2:AA:2580:U:C4	2.67	0.62
2:AA:2639:A:C6	2:AA:2640:G:H1'	2.33	0.62
2:AA:2730:C:H2'	2:AA:2731:G:C8	2.32	0.62
2:AA:482:A:N7	2:AA:506:G:N2	2.46	0.62
2:AA:685:A:C1'	2:AA:688:U:O4	2.46	0.62
2:AA:68:G:C2'	2:AA:69:C:H6	1.94	0.62
2:AA:754:C:H2'	2:AA:755:C:O5'	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:775:G:C2'	2:AA:794:G:C8	2.82	0.62
2:AA:819:A:OP2	2:AA:1187:G:N2	2.31	0.62
2:AA:839:U:H2'	2:AA:840:C:H6	1.62	0.62
2:AA:974(A):C:H1'	2:AA:989:G:N2	2.12	0.62
1:AB:44:G:H21	1:AB:48:A:H1'	1.59	0.62
1:AB:44:G:H8	1:AB:44:G:O5'	1.82	0.62
1:AB:44:G:O2'	1:AB:47:C:N4	2.31	0.62
1:AB:53:A:C6	1:AB:54:G:N7	2.67	0.62
3:AC:131:LEU:C	3:AC:133:PRO:CD	2.67	0.62
5:AE:221:LYS:C	5:AE:222:ARG:HD2	2.19	0.62
2:AA:618:G:OP1	6:AF:108:GLN:HG3	1.99	0.62
7:AG:100:ASP:C	7:AG:102:GLY:H	2.02	0.62
8:AH:40:MET:CA	8:AH:54:PRO:HG3	2.28	0.62
8:AH:97:LYS:O	8:AH:98:GLN:HG3	1.98	0.62
14:AO:94:ARG:HD3	14:AO:120:LEU:CD2	2.26	0.62
2:AA:2495:G:O2'	15:AP:101:MET:SD	2.57	0.62
15:AP:104:PRO:O	15:AP:105:PHE:O	2.17	0.62
15:AP:49:VAL:CG2	15:AP:120:HIS:HA	2.28	0.62
16:AQ:68:GLU:O	16:AQ:69:TYR:O	2.17	0.62
2:AA:1399:C:OP1	19:AT:67:ARG:CZ	2.46	0.62
34:BA:1255:G:N2	34:BA:1276:G:H21	1.97	0.62
34:BA:1464:G:H2'	34:BA:1465:C:C5	2.33	0.62
34:BA:1512:U:H2'	34:BA:1513:A:C8	2.33	0.62
34:BA:193:C:C2'	34:BA:194:C:H6	2.10	0.62
34:BA:271:C:O2'	34:BA:272:C:H5'	1.99	0.62
34:BA:603:U:H2'	34:BA:604:G:C8	2.34	0.62
34:BA:778:G:H2'	34:BA:779:C:C6	2.30	0.62
34:BA:839:U:OP2	34:BA:840:C:N4	2.32	0.62
35:BB:58:A:N3	35:BB:61:C:C6	2.67	0.62
35:BC:21:A:N6	35:BC:46:G:N2	2.46	0.62
37:BE:212:GLN:O	37:BE:213:LEU:C	2.37	0.62
38:BF:112:SER:OG	38:BF:115:LEU:HD12	1.99	0.62
38:BF:189:ALA:CB	38:BF:196:LEU:HG	2.28	0.62
39:BG:105:VAL:HG11	39:BG:117:ALA:HA	1.80	0.62
39:BG:79:PHE:O	39:BG:83:SER:OG	2.17	0.62
40:BH:104:ALA:CA	40:BH:107:ARG:NH1	2.47	0.62
40:BH:43:LEU:CD2	40:BH:44:GLY:N	2.61	0.62
42:BJ:127:ALA:O	42:BJ:128:ALA:C	2.37	0.62
40:BH:78:HIS:CB	43:BK:107:LEU:HD21	2.21	0.62
44:BL:116:LYS:N	44:BL:116:LYS:HD3	2.14	0.62
45:BM:78:ASN:O	45:BM:79:ARG:C	2.37	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:44:SER:H	46:BN:47:VAL:CB	2.12	0.62
47:BO:117:ARG:HH21	47:BO:123:LYS:HA	1.64	0.62
47:BO:86:ARG:HG3	47:BO:86:ARG:HH11	1.64	0.62
34:BA:761:G:C4'	52:BT:103:GLY:N	2.60	0.62
52:BT:95:TYR:O	52:BT:97:SER:O	2.17	0.62
55:BW:57:ARG:O	55:BW:59:ALA:N	2.32	0.62
35:BB:37:G:N9	35:BB:37:G:O5'	2.32	0.62
10:AK:121:ILE:HD12	10:AK:121:ILE:N	2.13	0.62
2:AA:2898:U:H2'	2:AA:2898:U:O2	1.99	0.62
25:A1:53:LYS:O	25:A1:57:PHE:HD1	1.82	0.62
25:A1:78:THR:CB	25:A1:117:ARG:HH21	2.12	0.62
2:AA:1162:G:C5'	26:A2:23:GLU:O	2.47	0.62
26:A2:39:PHE:HB3	26:A2:54:TYR:HB3	1.82	0.62
26:A2:66:GLY:HA2	26:A2:93:ILE:CD1	2.29	0.62
27:A3:69:PHE:C	27:A3:70:ILE:HD13	2.20	0.62
29:A5:40:LYS:HD3	29:A5:46:CYS:SG	2.38	0.62
29:A5:6:VAL:O	29:A5:8:LYS:HE3	1.99	0.62
2:AA:117:G:O3'	31:A7:22:MET:HE1	1.98	0.62
2:AA:1202:C:N4	2:AA:1243:G:N1	2.40	0.62
2:AA:1249:U:O2'	2:AA:1250:G:H5'	1.99	0.62
2:AA:585:G:N1	2:AA:1251:C:C5	2.67	0.62
2:AA:1418:G:H2'	2:AA:1419:A:OP1	1.98	0.62
2:AA:1460:A:N1	2:AA:1732:A:C2	2.67	0.62
2:AA:1517:G:H2'	2:AA:1518:C:O4'	1.98	0.62
2:AA:1527:G:N3	2:AA:1545:A:N7	2.46	0.62
2:AA:1529:A:N6	2:AA:1542:G:N2	2.46	0.62
2:AA:1559:G:C2	2:AA:1560:G:OP1	2.52	0.62
2:AA:1792:G:O5'	2:AA:1792:G:H8	1.82	0.62
2:AA:1799:G:N1	4:AD:177:SER:OG	2.32	0.62
2:AA:2011:U:O2'	2:AA:2012:G:H5'	2.00	0.62
2:AA:2112:G:HO2'	2:AA:2116:G:H8	1.45	0.62
2:AA:2226:C:C4	2:AA:2227:A:N3	2.66	0.62
2:AA:2512:C:H4'	5:AE:235:ILE:CD1	2.28	0.62
2:AA:2533:A:H2'	2:AA:2534:A:C8	2.34	0.62
2:AA:2593:U:O2	2:AA:2600:A:N1	2.32	0.62
2:AA:260:G:C2	2:AA:261:G:C8	2.88	0.62
2:AA:290:G:P	2:AA:351:G:O6	2.57	0.62
2:AA:299:A:C2	2:AA:322:A:N7	2.66	0.62
2:AA:380:U:C2'	2:AA:381:G:H5'	2.29	0.62
2:AA:596:G:C6	2:AA:597:U:N3	2.67	0.62
2:AA:657:U:H2'	2:AA:658:C:C6	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:700:G:H1	2:AA:732:C:N4	1.97	0.62
2:AA:713:G:H2'	2:AA:713:G:N3	2.15	0.62
2:AA:823:G:C2	2:AA:824:A:C5	2.87	0.62
2:AA:928:G:C2	2:AA:929:G:C6	2.86	0.62
2:AA:957:A:N7	2:AA:959:A:C4	2.68	0.62
1:AB:84:C:O2'	1:AB:85:G:O5'	2.16	0.62
3:AC:193:ILE:HG23	3:AC:226:PRO:HB2	1.79	0.62
2:AA:1658:C:OP1	5:AE:230:GLY:HA2	1.99	0.62
5:AE:222:ARG:CD	5:AE:232:ARG:HA	2.30	0.62
1:AB:18:G:H3'	7:AG:149:ARG:CZ	2.27	0.62
7:AG:49:PRO:HB2	7:AG:72:LYS:H	1.64	0.62
8:AH:93:TYR:CD1	8:AH:106:VAL:HA	2.34	0.62
2:AA:1055:G:C4	9:AI:28:LYS:HD3	2.33	0.62
2:AA:2093:G:C4'	10:AK:29:PHE:HE1	2.07	0.62
10:AK:8:ASP:N	10:AK:12:LYS:HA	2.14	0.62
11:AL:11:LEU:HD12	11:AL:58:ILE:CD1	2.29	0.62
11:AL:56:VAL:CG1	11:AL:58:ILE:HG12	2.28	0.62
12:AM:40:ASN:O	12:AM:41:ALA:C	2.37	0.62
13:AN:63:VAL:CG1	13:AN:102:VAL:CG1	2.71	0.62
15:AP:57:ARG:N	15:AP:61:LEU:HD21	2.14	0.62
15:AP:67:ALA:CA	15:AP:70:ARG:CD	2.65	0.62
16:AQ:92:ALA:O	16:AQ:95:ALA:N	2.32	0.62
17:AR:38:ASN:OD1	17:AR:39:ASN:N	2.32	0.62
17:AR:53:ASP:HB3	17:AR:56:ARG:CZ	2.29	0.62
18:AS:84:ARG:HB2	18:AS:96:ILE:O	1.99	0.62
18:AS:97:LYS:HB3	18:AS:99:ARG:HD3	1.82	0.62
20:AU:81:LYS:HD2	20:AU:83:ASP:OD1	1.99	0.62
21:AV:138:VAL:HB	21:AV:140:LYS:HZ1	1.64	0.62
36:B1:68:U:H5''	36:B1:69:A:OP1	1.98	0.62
34:BA:1139:G:N1	34:BA:1143:G:N2	2.41	0.62
34:BA:978:A:H62	34:BA:1360:A:H61	1.45	0.62
34:BA:1372:U:H2'	34:BA:1373:G:C8	2.34	0.62
34:BA:1512:U:H2'	34:BA:1513:A:H8	1.64	0.62
34:BA:1538:C:N4	36:B1:51:G:N1	2.31	0.62
34:BA:22:G:H1'	34:BA:914:A:N6	2.13	0.62
34:BA:292:G:N3	34:BA:309:G:C2	2.67	0.62
34:BA:314:C:H2'	34:BA:315:A:C1'	2.29	0.62
34:BA:462:G:C2	34:BA:463:A:C4	2.86	0.62
34:BA:552:U:C2'	34:BA:553:A:H5'	2.30	0.62
34:BA:565:U:H2'	34:BA:566:G:N7	2.14	0.62
34:BA:599:C:O3'	43:BK:96:GLY:HA3	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:643:C:H5'	43:BK:31:PHE:CE1	2.33	0.62
34:BA:901:A:H2'	34:BA:902:G:O4'	1.99	0.62
34:BA:956:U:O2'	34:BA:957:U:C5'	2.47	0.62
35:BB:58:A:C2	35:BB:61:C:C6	2.87	0.62
37:BE:220:ASP:HB3	37:BE:224:GLN:HE21	1.64	0.62
37:BE:70:PHE:CD2	37:BE:163:PHE:HB3	2.34	0.62
38:BF:84:ILE:CG1	38:BF:101:LEU:HD13	2.29	0.62
39:BG:82:ALA:HB3	39:BG:89:THR:HG23	1.81	0.62
44:BL:73:GLN:O	44:BL:76:ALA:HB3	1.99	0.62
47:BO:117:ARG:HE	47:BO:123:LYS:C	2.01	0.62
48:BP:77:ASN:OD1	48:BP:78:ILE:HG13	1.99	0.62
51:BS:30:GLY:O	51:BS:31:LYS:C	2.38	0.62
53:BU:21:LYS:CE	53:BU:57:GLY:HA3	2.27	0.62
24:A0:105:ARG:C	24:A0:107:ASP:N	2.52	0.62
24:A0:104:ARG:HB2	24:A0:111:LEU:HD11	1.80	0.62
25:A1:13:ARG:CD	25:A1:16:LYS:NZ	2.62	0.62
25:A1:41:ASN:O	25:A1:45:TYR:HB2	1.99	0.62
25:A1:50:ARG:CA	25:A1:53:LYS:NZ	2.61	0.62
25:A1:9:VAL:O	25:A1:12:ARG:HB2	1.99	0.62
26:A2:31:ASP:O	26:A2:33:VAL:N	2.31	0.62
27:A3:24:LYS:O	27:A3:26:PHE:HE1	1.81	0.62
27:A3:42:GLY:HA2	27:A3:66:LYS:HA	1.82	0.62
28:A4:7:PRO:HG2	28:A4:56:VAL:HG11	1.80	0.62
28:A4:70:GLY:O	28:A4:71:SER:OG	2.17	0.62
30:A6:18:THR:O	30:A6:20:PHE:N	2.32	0.62
32:A8:23:MET:HE1	32:A8:48:PHE:CB	2.28	0.62
2:AA:1029:A:C2'	2:AA:1030:G:O5'	2.47	0.62
2:AA:1055:G:N2	9:AI:29:PHE:CZ	2.66	0.62
2:AA:1171:G:C3'	2:AA:1173:G:H5''	2.23	0.62
2:AA:1226:G:H8	2:AA:1226:G:H3'	1.64	0.62
2:AA:1467:C:C4	2:AA:1468:C:H5	2.17	0.62
2:AA:1526:G:H5''	2:AA:1527:G:OP1	1.99	0.62
2:AA:152:G:C3'	2:AA:152:G:C8	2.83	0.62
2:AA:1639:U:O2'	2:AA:2699:C:H4'	1.98	0.62
2:AA:1728:G:H2'	2:AA:1729:A:C2	2.34	0.62
2:AA:1818:U:O4	4:AD:66:PHE:HE1	1.80	0.62
2:AA:1913:A:C2	2:AA:1917:U:O4	2.52	0.62
2:AA:1927:A:N6	2:AA:1928:A:N1	2.47	0.62
2:AA:197:A:O4'	2:AA:2068:U:O2	2.17	0.62
2:AA:2057:A:H2'	2:AA:2058:A:H8	1.63	0.62
2:AA:2284:C:C4	2:AA:2285:C:N4	2.68	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2313:C:O2'	2:AA:2314:C:H5'	1.99	0.62
2:AA:2447:G:C5	2:AA:2501:C:N3	2.66	0.62
2:AA:2457:U:C4	2:AA:2458:G:C2	2.87	0.62
2:AA:2059:A:N1	2:AA:2503:A:C6	2.67	0.62
2:AA:2437:U:H5'	2:AA:2598:A:C2	2.34	0.62
2:AA:2604:U:H2'	2:AA:2605:U:O5'	1.98	0.62
2:AA:2678:C:C2	2:AA:2679:A:C8	2.87	0.62
2:AA:2776:A:N3	2:AA:2778:A:C5	2.68	0.62
2:AA:2837:G:H1	2:AA:2881:C:H42	1.48	0.62
2:AA:510:C:O5'	2:AA:512:G:N1	2.26	0.62
2:AA:575:A:C2	2:AA:576:U:C2	2.86	0.62
2:AA:324:A:OP2	2:AA:613:U:O4	2.17	0.62
2:AA:783:A:C6	2:AA:785:G:C8	2.86	0.62
2:AA:673:C:N3	2:AA:808:G:N2	2.46	0.62
2:AA:857:C:H3'	2:AA:857:C:C6	2.33	0.62
2:AA:878:A:H2'	2:AA:878:A:N3	2.14	0.62
2:AA:924:C:O2'	2:AA:925:C:H5'	1.99	0.62
2:AA:973:A:C8	26:A2:80:TYR:CD2	2.87	0.62
3:AC:76:ALA:HB1	3:AC:149:ILE:HD11	1.82	0.62
2:AA:1825:A:N7	4:AD:225:ARG:NH2	2.47	0.62
2:AA:783:A:OP2	4:AD:230:ASN:ND2	2.33	0.62
9:AI:77:VAL:HG13	9:AI:102:ILE:CG1	2.29	0.62
9:AI:62:VAL:HA	9:AI:101:VAL:HA	1.81	0.62
11:AL:104:GLN:HA	11:AL:107:GLU:CG	2.28	0.62
11:AL:79:LEU:HD21	11:AL:137:ILE:CG2	2.29	0.62
14:AO:94:ARG:HH11	14:AO:120:LEU:CA	2.12	0.62
18:AS:71:VAL:HA	18:AS:106:ILE:O	2.00	0.62
2:AA:138:G:C8	19:AT:42:GLU:OE1	2.47	0.62
20:AU:77:VAL:O	20:AU:89:ARG:HB2	1.99	0.62
21:AV:103:ARG:HG2	21:AV:139:THR:CG2	2.11	0.62
15:AP:42:TYR:CA	21:AV:119:ASN:ND2	2.58	0.62
21:AV:64:ALA:O	21:AV:65:LEU:HB2	1.96	0.62
34:BA:1074:G:C5	34:BA:1075:C:C5	2.87	0.62
34:BA:1143:G:H2'	34:BA:1144:G:H8	1.65	0.62
34:BA:1145:C:O2'	34:BA:1146:A:O5'	2.17	0.62
34:BA:1221:G:OP1	34:BA:1320:C:N4	2.33	0.62
34:BA:137:C:H1'	51:BS:63:GLY:N	2.14	0.62
34:BA:151:A:N6	34:BA:152:A:C2	2.67	0.62
34:BA:1528:U:O2	34:BA:1530:G:H5''	1.99	0.62
34:BA:300:A:H2'	34:BA:301:G:O4'	1.99	0.62
34:BA:431:A:N6	34:BA:432:A:N3	2.47	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:579:G:O5'	34:BA:579:G:H8	1.83	0.62
34:BA:738:C:N3	34:BA:739:C:C5	2.68	0.62
34:BA:929:G:H5'	34:BA:1533:C:H42	1.64	0.62
35:BC:30:G:H2'	35:BC:31:A:O4'	1.99	0.62
37:BE:22:LYS:HD2	37:BE:40:HIS:HE1	1.65	0.62
39:BG:152:SER:C	39:BG:154:ASN:N	2.45	0.62
40:BH:80:ILE:CD1	40:BH:91:LEU:HB3	2.30	0.62
42:BJ:105:VAL:HG12	42:BJ:109:ASN:HD21	1.64	0.62
43:BK:129:VAL:HG13	43:BK:130:GLY:N	2.15	0.62
43:BK:27:PRO:O	43:BK:32:LYS:NZ	2.31	0.62
44:BL:3:GLN:CB	44:BL:20:ARG:HG2	2.30	0.62
46:BN:121:PRO:CG	46:BN:126:ARG:HG2	2.27	0.62
47:BO:93:LEU:HG	47:BO:96:VAL:HG21	1.81	0.62
50:BR:67:LEU:O	50:BR:70:LEU:HB3	1.99	0.62
51:BS:1:MET:O	51:BS:3:LYS:HG2	1.98	0.62
53:BU:26:LEU:HD21	53:BU:29:PHE:CD1	2.35	0.62
53:BU:44:LEU:O	53:BU:48:GLY:HA2	1.99	0.62
53:BU:67:ALA:HA	53:BU:70:ILE:CD1	2.29	0.62
25:A1:30:LYS:O	25:A1:32:TYR:CD2	2.53	0.62
25:A1:5:LYS:O	25:A1:7:GLY:N	2.32	0.62
25:A1:64:ARG:HH12	25:A1:101:ARG:NH2	1.98	0.62
26:A2:43:GLU:O	26:A2:44:GLN:NE2	2.32	0.62
27:A3:69:PHE:O	27:A3:70:ILE:CD1	2.42	0.62
28:A4:13:LYS:O	28:A4:14:ILE:CB	2.44	0.62
30:A6:16:ALA:CB	30:A6:42:PRO:HD3	2.29	0.62
2:AA:126:A:O5'	31:A7:19:ARG:NE	2.32	0.62
2:AA:1021:A:C2	2:AA:1122:G:O3'	2.52	0.62
2:AA:988:A:H4'	2:AA:1155:A:H2	1.65	0.62
2:AA:1157:G:O2'	23:AX:31:LEU:HD12	1.99	0.62
2:AA:1158:C:H4'	23:AX:32:GLN:CD	2.19	0.62
2:AA:119:A:O2'	2:AA:120:U:P	2.57	0.62
2:AA:1212:G:H2'	2:AA:1213:A:OP2	1.99	0.62
2:AA:1293:C:H2'	2:AA:1294:U:O5'	1.98	0.62
2:AA:1299:G:C5'	2:AA:1300:U:H5'	2.28	0.62
2:AA:1305:C:O2	2:AA:1623:G:N1	2.28	0.62
2:AA:1326:U:C2'	2:AA:1327:C:H5'	2.30	0.62
2:AA:1608:A:O2'	2:AA:1609:A:H5'	1.99	0.62
2:AA:729:G:N1	2:AA:1775:U:C4	2.67	0.62
2:AA:208:C:O5'	2:AA:208:C:H6	1.83	0.62
2:AA:2186:G:C2	2:AA:2187:G:C6	2.88	0.62
2:AA:2206:C:C2'	2:AA:2207:C:O4'	2.40	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2213:U:H2'	2:AA:2213:U:O2	1.99	0.62
2:AA:2331:G:C2	2:AA:2385:C:N4	2.68	0.62
2:AA:2376:A:N6	16:AQ:109:PRO:CG	2.62	0.62
2:AA:2493:U:C2'	2:AA:2494:G:O5'	2.47	0.62
2:AA:2506:U:O2'	2:AA:2507:C:H5'	1.99	0.62
2:AA:2472:G:H21	2:AA:2529:G:H1	1.47	0.62
2:AA:2549:G:H2'	2:AA:2550:G:O4'	1.98	0.62
2:AA:2740:A:C6	2:AA:2764:A:C8	2.87	0.62
2:AA:2628:C:C1'	2:AA:2781:A:N3	2.61	0.62
2:AA:291:C:C2	2:AA:349:G:N2	2.66	0.62
2:AA:598:G:O2'	2:AA:599:G:H5'	1.99	0.62
2:AA:607:U:C6	2:AA:608:A:N7	2.67	0.62
2:AA:648:G:O2'	2:AA:649:G:H5'	1.99	0.62
2:AA:674:G:O3'	6:AF:69:HIS:C	2.37	0.62
2:AA:865:C:O2'	2:AA:866:A:N7	2.27	0.62
2:AA:943:U:H2'	2:AA:944:G:OP1	1.99	0.62
1:AB:112:G:H5'	1:AB:113:C:OP2	1.99	0.62
1:AB:61:G:N2	1:AB:62:C:N3	2.47	0.62
3:AC:211:SER:HB2	3:AC:213:TYR:OH	2.00	0.62
3:AC:75:LEU:HD11	3:AC:99:ILE:HG21	1.80	0.62
5:AE:258:TYR:N	5:AE:258:TYR:HD2	1.96	0.62
6:AF:138:VAL:HG12	6:AF:138:VAL:O	1.99	0.62
6:AF:151:GLN:CA	6:AF:154:VAL:HG23	2.28	0.62
6:AF:37:ALA:HB1	6:AF:107:ARG:HH21	1.60	0.62
6:AF:47:GLY:HA2	6:AF:92:PRO:HG2	1.80	0.62
9:AI:71:ILE:O	9:AI:75:LYS:HG3	1.99	0.62
10:AK:40:THR:CG2	10:AK:42:ALA:HB3	2.30	0.62
11:AL:106:GLU:CA	11:AL:125:MET:SD	2.87	0.62
11:AL:18:ALA:C	11:AL:39:CYS:HB3	2.19	0.62
12:AM:54:VAL:CG1	12:AM:135:ILE:HD12	2.29	0.62
12:AM:54:VAL:CA	12:AM:135:ILE:HG13	2.29	0.62
13:AN:106:LEU:HB3	13:AN:111:PHE:HB2	1.80	0.62
13:AN:64:ARG:O	13:AN:82:ASN:HA	1.99	0.62
16:AQ:21:HIS:O	16:AQ:22:GLN:C	2.36	0.62
18:AS:11:ARG:HB3	18:AS:11:ARG:NH1	2.13	0.62
19:AT:9:HIS:CB	19:AT:26:PHE:HA	2.23	0.62
20:AU:79:LEU:HG	20:AU:80:GLU:N	2.12	0.62
34:BA:1160:G:O6	34:BA:1181:G:C6	2.52	0.62
34:BA:1253:G:N1	34:BA:1285:A:N6	2.47	0.62
34:BA:1343:G:O5'	34:BA:1343:G:H8	1.82	0.62
34:BA:1433:A:C2'	34:BA:1434:A:H5'	2.28	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:325:A:O2'	34:BA:326:G:H5'	2.00	0.62
34:BA:449:C:C4	34:BA:450:G:H1'	2.34	0.62
34:BA:475:G:C4	34:BA:476:G:N7	2.68	0.62
34:BA:302:G:H21	34:BA:556:C:H4'	1.64	0.62
34:BA:585:G:O2'	34:BA:586:C:H5'	2.00	0.62
34:BA:722:A:C6	34:BA:724:G:C6	2.87	0.62
34:BA:727:G:N2	34:BA:731:G:C5	2.67	0.62
34:BA:967:C:H2'	34:BA:968:A:C8	2.34	0.62
34:BA:965:A:H1'	34:BA:969:A:N7	2.14	0.62
35:BC:9:A:C2	35:BC:45:G:N7	2.67	0.62
37:BE:15:VAL:HG21	37:BE:210:SER:N	2.15	0.62
37:BE:218:ALA:O	37:BE:221:LEU:N	2.32	0.62
37:BE:68:ILE:O	37:BE:90:MET:CB	2.46	0.62
37:BE:79:ASP:O	37:BE:82:ARG:HB3	1.98	0.62
38:BF:28:GLN:HE21	38:BF:29:TYR:H	1.47	0.62
38:BF:77:ILE:HG23	38:BF:81:GLY:HA2	1.81	0.62
39:BG:191:ARG:NH2	39:BG:196:LEU:HB2	2.14	0.62
42:BJ:25:ALA:O	42:BJ:28:ASN:HB2	2.00	0.62
42:BJ:59:LEU:O	42:BJ:63:LYS:HG2	1.99	0.62
43:BK:23:SER:O	43:BK:24:THR:CB	2.48	0.62
46:BN:54:ARG:CG	46:BN:54:ARG:HH11	2.09	0.62
46:BN:92:GLU:HG3	46:BN:96:ARG:HD3	1.79	0.62
48:BP:2:ALA:O	48:BP:4:ILE:N	2.24	0.62
50:BR:66:LEU:O	50:BR:67:LEU:C	2.36	0.62
53:BU:77:GLY:C	53:BU:78:LEU:HG	2.19	0.62
34:BA:986:A:C1'	54:BV:55:LYS:HA	2.25	0.62
56:BX:12:LYS:HG3	56:BX:18:TYR:CB	2.30	0.62
10:AK:110:LEU:C	10:AK:110:LEU:HD23	2.20	0.62
10:AK:93:ILE:HG12	10:AK:121:ILE:C	2.20	0.62
1:AB:12:C:H41	27:A3:50:GLY:H	1.44	0.62
37:BE:134:GLU:O	37:BE:138:LEU:HG	2.00	0.62
2:AA:532:A:OP1	25:A1:25:TRP:CD1	2.52	0.62
26:A2:5:ILE:CG2	26:A2:38:LEU:O	2.48	0.62
27:A3:46:LYS:HE2	27:A3:58:THR:OG1	1.99	0.62
27:A3:28:GLY:N	27:A3:60:PHE:HB3	2.15	0.62
30:A6:18:THR:HG23	30:A6:18:THR:O	1.99	0.62
2:AA:686:G:OP1	31:A7:11:LYS:HD3	1.99	0.62
32:A8:14:ILE:O	32:A8:14:ILE:CG2	2.47	0.62
32:A8:3:LYS:O	32:A8:4:MET:HE3	2.00	0.62
2:AA:1043:C:C2'	2:AA:1044:G:H5'	2.28	0.62
2:AA:1064:C:C2'	2:AA:1065:U:H6	2.11	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1222:C:N4	2:AA:1227:A:H62	1.78	0.62
2:AA:122:G:C2	2:AA:130:C:C2	2.87	0.62
2:AA:1274:A:H2	2:AA:1297:C:O2	1.80	0.62
2:AA:1314:C:O2'	2:AA:1315:C:H5'	2.00	0.62
2:AA:1326:U:O4'	2:AA:2010:G:C2	2.52	0.62
2:AA:1332:G:C8	2:AA:1609:A:N6	2.64	0.62
2:AA:142:G:OP1	2:AA:1596:A:C5'	2.47	0.62
2:AA:1464:C:H2'	2:AA:1465:G:H8	1.64	0.62
2:AA:1529:A:H3'	2:AA:1530:G:C8	2.35	0.62
2:AA:162:U:C4'	2:AA:171:G:H21	2.12	0.62
2:AA:1645:G:H8	2:AA:1645:G:OP2	1.82	0.62
2:AA:1754:C:O2	2:AA:1755:A:H1'	1.99	0.62
2:AA:1799:G:N2	4:AD:153:LEU:HG	2.13	0.62
2:AA:1857:G:H2'	2:AA:1858:G:C8	2.33	0.62
2:AA:1937:A:N7	2:AA:1939:U:C2	2.68	0.62
2:AA:1981:A:H3'	2:AA:1982:C:C5'	2.28	0.62
2:AA:2027:G:C4	2:AA:2028:U:C6	2.87	0.62
2:AA:2090:G:H2'	2:AA:2091:U:C6	2.35	0.62
2:AA:2151:G:O5'	2:AA:2152:G:OP2	2.17	0.62
2:AA:2325:G:C5	2:AA:2326:C:H5	2.18	0.62
2:AA:2331:G:O2'	27:A3:70:ILE:HD12	2.00	0.62
2:AA:245:G:H5'	14:AO:55:GLN:HA	1.79	0.62
2:AA:2510:C:N4	2:AA:2511:U:C4	2.67	0.62
2:AA:2573:C:C6	2:AA:2573:C:C3'	2.82	0.62
2:AA:2676:C:H2'	2:AA:2677:G:H8	1.65	0.62
2:AA:286:C:C2'	2:AA:287:C:C5'	2.67	0.62
2:AA:302:C:N3	2:AA:303:U:C4	2.67	0.62
2:AA:40:C:H2'	2:AA:41:C:C6	2.33	0.62
2:AA:473:G:H2'	2:AA:474:G:H5'	1.81	0.62
2:AA:49:A:N6	2:AA:177:G:C2	2.67	0.62
2:AA:754:C:C2'	2:AA:755:C:H5'	2.30	0.62
2:AA:782:A:C1'	2:AA:783:A:H62	2.13	0.62
2:AA:881:G:H2'	2:AA:882:G:O4'	1.99	0.62
3:AC:82:LYS:CB	3:AC:116:THR:HG21	2.17	0.62
4:AD:211:HIS:HA	4:AD:222:PRO:CG	2.29	0.62
6:AF:80:VAL:O	6:AF:87:ARG:NH1	2.32	0.62
7:AG:27:ILE:O	7:AG:29:HIS:N	2.31	0.62
7:AG:36:ASN:O	7:AG:39:ASP:CB	2.48	0.62
8:AH:161:ILE:C	8:AH:162:ARG:HG3	2.19	0.62
2:AA:1083:U:C5'	9:AI:40:ALA:CB	2.76	0.62
9:AJ:61:VAL:HG21	9:AJ:114:ILE:HB	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:39:ALA:CA	10:AK:44:LEU:HD21	2.28	0.62
11:AL:92:PRO:O	11:AL:94:ARG:N	2.32	0.62
13:AN:17:ARG:C	13:AN:18:GLU:HG3	2.20	0.62
14:AO:125:PHE:O	14:AO:130:ARG:HG3	1.98	0.62
14:AO:141:GLU:CD	14:AO:145:LEU:HB2	2.19	0.62
14:AO:77:ALA:CA	14:AO:81:VAL:HB	2.16	0.62
15:AP:133:GLU:OE1	15:AP:133:GLU:C	2.38	0.62
16:AQ:122:ALA:HB1	16:AQ:127:LEU:HD13	1.80	0.62
16:AQ:35:VAL:HG13	16:AQ:103:ASP:OD2	2.00	0.62
19:AT:18:MET:SD	19:AT:25:GLN:N	2.71	0.62
19:AT:5:ILE:HG22	19:AT:6:LYS:H	1.65	0.62
22:AW:26:GLU:CA	22:AW:29:ASN:HD22	1.93	0.62
23:AX:41:PRO:O	23:AX:42:ALA:C	2.37	0.62
34:BA:1157:A:C1'	34:BA:1181:G:N2	2.62	0.62
34:BA:115:G:O2'	34:BA:116:A:OP2	2.11	0.62
34:BA:1172:C:O2'	34:BA:1173:G:H5'	2.00	0.62
34:BA:1254:C:OP1	45:BM:45:ARG:HD2	1.99	0.62
34:BA:1302:U:OP1	48:BP:13:LYS:NZ	2.29	0.62
34:BA:1306:A:H61	34:BA:1331:G:H1'	1.65	0.62
34:BA:1326:C:C4	34:BA:1327:C:C4	2.88	0.62
34:BA:944:G:C2	34:BA:1340:A:C6	2.88	0.62
34:BA:13:U:O2	34:BA:21:G:N2	2.23	0.62
34:BA:1403:C:C1'	34:BA:1500:A:N1	2.63	0.62
34:BA:1413:A:C2'	34:BA:1414:U:O5'	2.48	0.62
34:BA:1516:G:N2	34:BA:1519:A:OP2	2.32	0.62
34:BA:621:A:C6	34:BA:622:A:C6	2.88	0.62
34:BA:783:C:N4	34:BA:799:G:H1	1.96	0.62
34:BA:781:A:H61	34:BA:802:A:H1'	1.65	0.62
34:BA:871:U:H4'	34:BA:872:A:OP1	2.00	0.62
34:BA:956:U:O2	34:BA:960:U:C4	2.52	0.62
34:BA:979:C:C2'	34:BA:980:C:H5'	2.29	0.62
35:BB:51:G:H2'	35:BB:52:U:O4'	2.00	0.62
37:BE:102:LEU:HD13	37:BE:176:GLU:OE1	1.99	0.62
37:BE:47:THR:CB	37:BE:48:MET:SD	2.84	0.62
40:BH:51:VAL:O	40:BH:55:VAL:CG2	2.38	0.62
42:BJ:76:ARG:HG3	42:BJ:89:MET:SD	2.39	0.62
43:BK:100:ILE:HB	43:BK:125:ARG:NH2	2.14	0.62
44:BL:122:ALA:O	44:BL:123:PRO:C	2.36	0.62
46:BN:54:ARG:NH1	46:BN:54:ARG:HG3	2.09	0.62
50:BR:65:ARG:HB2	50:BR:65:ARG:CZ	2.29	0.62
55:BW:72:LEU:CD2	55:BW:76:ALA:HB1	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:77:VAL:HG11	10:AK:143:VAL:HG13	1.82	0.62
10:AK:89:LEU:N	10:AK:122:ARG:HG2	2.14	0.62
37:BE:131:PRO:CG	37:BE:134:GLU:HG2	2.26	0.62
8:AH:169:ARG:HA	8:AH:169:ARG:NE	2.15	0.62
25:A1:27:SER:C	25:A1:29:SER:H	1.96	0.62
29:A5:15:LYS:O	29:A5:16:ARG:C	2.38	0.62
2:AA:2742:C:OP1	33:A9:35:ARG:CD	2.48	0.62
2:AA:1081:U:H2'	2:AA:1082:U:C4	2.34	0.62
2:AA:1085:A:HO2'	2:AA:1086:A:C4'	2.09	0.62
2:AA:1343:G:C2	2:AA:1405:U:C2	2.87	0.62
2:AA:1413:G:H1	2:AA:1589:C:N4	1.97	0.62
2:AA:1300:U:C2	2:AA:1626:G:C2	2.87	0.62
2:AA:1769:G:C6	2:AA:1984:G:C6	2.88	0.62
2:AA:1930:G:O2'	2:AA:1931:U:P	2.58	0.62
2:AA:1943:U:O2'	2:AA:1944:U:P	2.57	0.62
2:AA:2046:G:H2'	2:AA:2047:U:C6	2.35	0.62
2:AA:2330:G:O2'	2:AA:2331:G:H5'	2.00	0.62
2:AA:2457:U:C2'	2:AA:2458:G:C5'	2.69	0.62
2:AA:2548:G:H2'	2:AA:2549:G:O5'	1.98	0.62
2:AA:2579:C:H5''	2:AA:2579:C:C6	2.35	0.62
2:AA:265:A:O2'	2:AA:266:G:O5'	2.16	0.62
2:AA:2674:G:O6	2:AA:2675:A:N6	2.32	0.62
2:AA:2700:C:H2'	2:AA:2701:C:H4'	1.79	0.62
2:AA:324:A:N6	2:AA:339:U:C1'	2.39	0.62
2:AA:581:C:H2'	2:AA:582:G:C8	2.35	0.62
2:AA:607:U:C4	2:AA:621:A:N1	2.66	0.62
2:AA:686:G:C5'	2:AA:687:C:OP2	2.46	0.62
2:AA:73:A:C2'	2:AA:74:A:OP2	2.47	0.62
2:AA:751:A:H8	18:AS:90:ARG:NH2	1.98	0.62
2:AA:909:A:C2	2:AA:912:C:H1'	2.34	0.62
2:AA:993:G:C8	2:AA:1162:G:N1	2.68	0.62
1:AB:54:G:O2'	1:AB:55:U:H5'	1.99	0.62
2:AA:2218:G:H4'	4:AD:147:PRO:HG3	1.82	0.62
4:AD:142:ASN:HB3	4:AD:190:THR:HG23	1.82	0.62
4:AD:78:ALA:HB2	4:AD:94:ASN:ND2	2.14	0.62
5:AE:189:MET:SD	5:AE:311:PHE:HZ	2.22	0.62
6:AF:238:SER:C	6:AF:241:ALA:H	2.03	0.62
7:AG:100:ASP:OD1	7:AG:100:ASP:N	2.32	0.62
10:AK:30:LEU:HA	10:AK:33:GLN:HE21	1.64	0.62
11:AL:53:ILE:O	11:AL:54:LEU:HD23	2.00	0.62
12:AM:13:ASP:N	12:AM:38:VAL:HG13	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:55:ALA:HB2	18:AS:107:LEU:HD11	1.81	0.62
21:AV:14:LEU:HD23	21:AV:79:ILE:CD1	2.28	0.62
34:BA:112:G:H5'	34:BA:389:A:C4'	2.08	0.62
34:BA:1053:G:H2'	34:BA:1199:U:H5	1.65	0.62
34:BA:1206:G:H2'	34:BA:1207:G:O4'	1.99	0.62
34:BA:1289:A:OP2	34:BA:1289:A:H3'	1.99	0.62
34:BA:1358:U:H5''	49:BQ:34:TYR:HA	1.81	0.62
34:BA:269:C:H2'	34:BA:270:A:H8	1.63	0.62
34:BA:118:U:O4	34:BA:289:G:OP2	2.17	0.62
34:BA:28:G:C2'	34:BA:296:U:OP1	2.47	0.62
34:BA:321:A:C6	34:BA:322:C:N4	2.68	0.62
34:BA:448:A:C2	34:BA:449:C:C4	2.87	0.62
34:BA:669:U:O4'	50:BR:46:HIS:CE1	2.53	0.62
34:BA:749:C:O2	34:BA:749:C:H2'	1.98	0.62
34:BA:815:A:N1	34:BA:1529:G:H2'	2.15	0.62
34:BA:1058:G:OP1	38:BF:199:LYS:HE3	1.99	0.62
39:BG:172:PRO:HG3	39:BG:193:ASP:CB	2.30	0.62
42:BJ:12:LEU:O	42:BJ:14:PRO:HD3	2.00	0.62
43:BK:49:GLU:O	43:BK:59:LEU:HD23	1.99	0.62
44:BL:37:PHE:HA	44:BL:40:LEU:HD12	1.81	0.62
47:BO:27:LEU:HD13	47:BO:64:TYR:CE1	2.35	0.62
47:BO:62:SER:HB2	47:BO:64:TYR:HB2	1.81	0.62
45:BM:51:ARG:HG2	49:BQ:45:ARG:NH1	2.15	0.62
53:BU:21:LYS:CA	53:BU:55:ARG:HH12	2.05	0.62
55:BW:26:ASN:H	55:BW:26:ASN:ND2	1.95	0.62
10:AK:112:LYS:HG2	10:AK:113:ARG:H	1.64	0.62
27:A3:52:GLY:O	27:A3:53:MET:HB2	1.99	0.62
36:B1:28:U:H2'	36:B1:29:G:C8	2.35	0.62
11:AL:36:MET:SD	11:AL:40:LYS:HG3	2.40	0.62
24:A0:103:ARG:HA	24:A0:109:ALA:O	1.99	0.62
2:AA:1275:A:N6	24:A0:19:ALA:HB2	2.11	0.62
24:A0:53:HIS:CA	24:A0:56:LYS:HG3	2.28	0.62
24:A0:63:ARG:HH12	24:A0:80:PHE:CB	2.12	0.62
25:A1:17:VAL:CG1	25:A1:39:LEU:HD12	2.29	0.62
26:A2:15:SER:HB2	26:A2:99:GLN:NE2	2.14	0.62
26:A2:7:THR:O	26:A2:9:GLY:N	2.33	0.62
27:A3:27:GLY:CA	27:A3:60:PHE:CD2	2.83	0.62
2:AA:1363:C:H5'	28:A4:55:ARG:HH12	1.63	0.62
29:A5:11:THR:HB	29:A5:16:ARG:CG	2.29	0.62
30:A6:36:GLU:OE1	30:A6:53:LYS:HG2	1.99	0.62
31:A7:27:GLY:O	31:A7:28:ARG:C	2.37	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:A8:26:LYS:CE	32:A8:45:GLY:H	2.11	0.62
32:A8:26:LYS:HB2	32:A8:44:LYS:HA	1.82	0.62
2:AA:1087:G:N2	2:AA:1103:A:C3'	2.63	0.62
2:AA:1155:A:H5'	2:AA:1155:A:H8	1.64	0.62
2:AA:1309:G:OP1	31:A7:9:ASN:HB2	2.00	0.62
2:AA:1591:G:C5	2:AA:1592:C:C4	2.87	0.62
2:AA:1672:C:O2'	2:AA:1673:U:H5'	2.00	0.62
2:AA:1775:U:OP2	2:AA:1775:U:H3'	1.98	0.62
2:AA:1846:G:N2	2:AA:1895:C:N1	2.47	0.62
2:AA:1973:G:H2'	2:AA:1974:C:H6	1.62	0.62
2:AA:2009:G:C6	2:AA:2010:G:N7	2.68	0.62
2:AA:2119:A:N6	2:AA:2147:G:C5'	2.63	0.62
2:AA:216:A:C2	2:AA:217:G:C5	2.88	0.62
2:AA:2078:C:H5'	2:AA:2434:A:H5'	1.82	0.62
2:AA:2460:U:C5	2:AA:2461:C:C5	2.88	0.62
2:AA:2572:A:N7	5:AE:241:TRP:CD1	2.68	0.62
2:AA:2698:U:C2	2:AA:2699:C:C5	2.88	0.62
2:AA:2714:G:H8	2:AA:2714:G:H5''	1.63	0.62
2:AA:2803:C:O2	2:AA:2803:C:C2'	2.31	0.62
2:AA:2824:C:N4	2:AA:2825:C:O2	2.33	0.62
2:AA:323:G:OP2	2:AA:340:A:C2	2.51	0.62
2:AA:557:U:H2'	2:AA:558:G:C8	2.35	0.62
2:AA:576:U:O2'	2:AA:577:G:H5'	2.00	0.62
2:AA:611:C:H2'	2:AA:611:C:O2	1.98	0.62
2:AA:69:C:C6	2:AA:69:C:OP2	2.52	0.62
2:AA:734:A:C2	2:AA:735:A:C1'	2.83	0.62
2:AA:959:A:C4	2:AA:960:A:N7	2.68	0.62
1:AB:73:A:H2'	1:AB:74:U:C6	2.34	0.62
6:AF:32:GLY:O	6:AF:36:ARG:HG2	2.00	0.62
6:AF:31:ILE:O	6:AF:34:ALA:HB3	2.00	0.62
8:AH:145:ALA:O	8:AH:146:ASN:C	2.37	0.62
9:AI:1:MET:HB3	11:AL:10:LYS:NZ	2.14	0.62
10:AK:19:LYS:HD2	10:AK:20:ASN:H	1.65	0.62
14:AO:94:ARG:HD3	14:AO:120:LEU:CB	2.30	0.62
14:AO:52:LYS:CD	14:AO:53:ARG:NH1	2.62	0.62
16:AQ:17:ARG:NH2	16:AQ:106:LEU:CD1	2.62	0.62
2:AA:2010:G:O2'	18:AS:42:ARG:NH2	2.33	0.62
18:AS:18:ARG:HG3	18:AS:76:VAL:HG12	1.82	0.62
21:AV:128:ARG:O	21:AV:129:ARG:HG2	2.00	0.62
21:AV:19:ILE:N	21:AV:36:ARG:CG	2.63	0.62
34:BA:1147:C:N3	34:BA:1148:U:C5	2.68	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1166:G:H1'	34:BA:1169:A:H61	1.63	0.62
34:BA:1174:G:O2'	34:BA:1175:G:H5'	2.00	0.62
34:BA:937:A:H1'	34:BA:1379:G:N2	2.15	0.62
34:BA:1485:U:O2	34:BA:1486:G:N7	2.33	0.62
34:BA:419:C:O2'	34:BA:420:U:H5'	2.00	0.62
34:BA:462:G:C8	34:BA:462:G:OP2	2.53	0.62
34:BA:735:C:O5'	34:BA:735:C:H6	1.80	0.62
34:BA:748:C:O2'	34:BA:749:C:C5'	2.47	0.62
34:BA:779:C:H2'	34:BA:780:A:O5'	1.99	0.62
34:BA:924:C:O2'	34:BA:925:G:H5'	1.99	0.62
34:BA:982:U:H1'	34:BA:983:A:C6	2.34	0.62
35:BB:18:G:O2'	35:BB:19:G:O5'	2.17	0.62
37:BE:219:VAL:HA	37:BE:222:ILE:CG2	2.30	0.62
38:BF:88:ARG:NE	38:BF:101:LEU:N	2.32	0.62
42:BJ:136:LYS:HD2	42:BJ:137:LYS:N	2.14	0.62
43:BK:18:ARG:HH22	43:BK:78:GLN:CD	2.03	0.62
45:BM:5:ARG:HA	45:BM:73:ASP:CG	2.20	0.62
46:BN:100:ALA:C	46:BN:102:GLY:N	2.48	0.62
46:BN:32:ILE:HD11	46:BN:72:ALA:HB2	1.81	0.62
34:BA:539:A:OP2	47:BO:115:LYS:HE2	1.99	0.62
47:BO:60:LEU:CD2	47:BO:64:TYR:HB2	2.30	0.62
48:BP:77:ASN:CA	48:BP:80:ARG:HD3	2.30	0.62
34:BA:237:C:P	52:BT:40:LYS:HZ2	2.22	0.62
34:BA:130:A:H5'	52:BT:63:ARG:NH2	2.14	0.62
55:BW:63:ILE:CD1	55:BW:80:ARG:CB	2.73	0.62
10:AK:88:ARG:NH2	10:AK:121:ILE:HG23	2.14	0.62
3:AC:180:PHE:HD2	3:AC:184:LYS:HB3	1.65	0.62
24:A0:30:THR:HB	24:A0:31:HIS:ND1	2.14	0.62
24:A0:25:ALA:HA	24:A0:48:VAL:HG22	1.81	0.62
24:A0:75:LEU:HA	24:A0:78:LYS:HB3	1.81	0.62
24:A0:96:ARG:HG2	24:A0:115:GLU:HG2	1.82	0.62
25:A1:69:ALA:HB1	25:A1:79:PHE:CZ	2.34	0.62
28:A4:60:ASN:O	28:A4:63:PHE:HB2	1.99	0.62
2:AA:1026:U:C6	2:AA:1026:U:C5'	2.75	0.62
2:AA:1084:A:O5'	9:AI:38:ALA:C	2.36	0.62
2:AA:1376:C:H2'	2:AA:1377:G:H8	1.62	0.62
2:AA:1463:C:C2'	2:AA:1464:C:O5'	2.47	0.62
2:AA:1628:G:C2	2:AA:1629:U:C4	2.88	0.62
2:AA:1750:G:H2'	2:AA:1751:C:H6	1.65	0.62
2:AA:1826:G:C2	2:AA:1827:C:C6	2.87	0.62
2:AA:1906:G:C8	2:AA:1929:G:C8	2.88	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1906:G:N9	2:AA:1929:G:C8	2.67	0.62
2:AA:1957:C:C2'	2:AA:1985:G:HO2'	2.11	0.62
2:AA:529:A:C2	2:AA:2022:U:H5'	2.34	0.62
2:AA:2078:C:N3	2:AA:2079:U:C5	2.68	0.62
2:AA:2273:A:H2'	2:AA:2274:A:H5'	1.81	0.62
2:AA:199:A:C5	2:AA:2434:A:N1	2.68	0.62
2:AA:248:G:N2	2:AA:2431:U:H5''	2.15	0.62
2:AA:2059:A:C2	2:AA:2503:A:N7	2.67	0.62
2:AA:2620:C:OP1	5:AE:248:SER:O	2.17	0.62
2:AA:2625:G:H3'	2:AA:2626:C:C5	2.35	0.62
2:AA:2653:U:C4	2:AA:2654:A:C6	2.87	0.62
2:AA:270(R):G:N2	2:AA:270(S):G:C2	2.67	0.62
2:AA:272:G:C2'	2:AA:273:G:O4'	2.48	0.62
2:AA:2733:A:C8	2:AA:2734:A:C8	2.87	0.62
2:AA:2885:C:C4	2:AA:2886:G:C8	2.88	0.62
2:AA:534:U:H4'	25:A1:46:GLU:HG2	1.82	0.62
2:AA:534:U:O2'	25:A1:49:ASP:CG	2.37	0.62
2:AA:574:C:O2'	2:AA:575:A:P	2.57	0.62
2:AA:592:G:H5'	2:AA:593:G:OP2	1.99	0.62
2:AA:637:A:OP2	14:AO:109:LEU:HD13	1.99	0.62
2:AA:675:A:N7	2:AA:804:A:C6	2.67	0.62
2:AA:679:C:O2	2:AA:679:C:C2'	2.34	0.62
2:AA:740:U:O4	2:AA:758:C:H1'	1.99	0.62
2:AA:684:G:C4	2:AA:775:G:O6	2.53	0.62
2:AA:839:U:H2'	2:AA:840:C:C6	2.34	0.62
2:AA:979:G:N2	2:AA:985:C:N4	2.48	0.62
3:AC:131:LEU:CB	3:AC:136:LEU:HB2	2.29	0.62
5:AE:198:TYR:O	5:AE:314:ALA:HB1	1.99	0.62
6:AF:196:THR:HA	6:AF:236:THR:HG23	1.80	0.62
6:AF:80:VAL:HG13	6:AF:81:PRO:N	2.15	0.62
7:AG:24:HIS:C	7:AG:129:ASP:OD2	2.38	0.62
9:AI:103:LYS:HB2	9:AI:114:ILE:HD13	1.82	0.62
9:AJ:111:ALA:O	9:AJ:115:LYS:HG3	1.98	0.62
10:AK:26:ALA:HB1	10:AK:30:LEU:HD12	1.81	0.62
10:AK:5:PHE:HD2	10:AK:5:PHE:N	1.93	0.62
11:AL:18:ALA:HB1	11:AL:39:CYS:C	2.20	0.62
12:AM:27:ALA:O	12:AM:30:ALA:N	2.32	0.62
15:AP:152:SER:CB	15:AP:153:PRO:HD2	2.29	0.62
1:AB:9:G:OP1	16:AQ:23:ARG:NH1	2.31	0.62
20:AU:27:LEU:HD22	20:AU:31:LEU:HD13	1.82	0.62
21:AV:115:ILE:O	21:AV:169:VAL:HG13	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1143:G:O5'	34:BA:1143:G:H8	1.83	0.62
34:BA:1239:A:C2'	34:BA:1298:C:H42	2.13	0.62
34:BA:1341:U:O5'	34:BA:1341:U:H6	1.82	0.62
34:BA:1442:G:N2	34:BA:1446:A:N9	2.48	0.62
34:BA:1479:C:C2'	34:BA:1480:G:C5'	2.72	0.62
34:BA:1539:C:H2'	34:BA:1539:C:O2	1.99	0.62
34:BA:192:U:H5'	55:BW:102:GLY:HA2	1.81	0.62
34:BA:246:A:C2'	34:BA:247:G:OP2	2.48	0.62
34:BA:363:A:C5'	47:BO:105:TYR:OH	2.48	0.62
34:BA:451:A:H1'	34:BA:452:A:C4	2.35	0.62
34:BA:540:G:H21	39:BG:42:GLN:NE2	1.97	0.62
34:BA:573:A:C2	34:BA:574:A:C6	2.88	0.62
34:BA:783:C:H2'	34:BA:784:C:C5'	2.27	0.62
34:BA:909:A:H2'	34:BA:910:C:O5'	1.99	0.62
38:BF:28:GLN:NE2	38:BF:29:TYR:N	2.48	0.62
38:BF:8:ILE:HG12	38:BF:12:LEU:HD21	1.82	0.62
40:BH:131:ILE:HG22	40:BH:132:ALA:N	2.15	0.62
41:BI:87:ARG:HH11	41:BI:87:ARG:HG2	1.64	0.62
43:BK:118:VAL:C	43:BK:119:LEU:HD22	2.19	0.62
43:BK:49:GLU:HG2	43:BK:62:TYR:OH	2.00	0.62
46:BN:43:SER:HA	46:BN:47:VAL:HG11	1.82	0.62
46:BN:83:ILE:HD12	46:BN:83:ILE:N	2.15	0.62
47:BO:28:LYS:HD2	47:BO:33:ARG:NH2	2.13	0.62
48:BP:4:ILE:C	48:BP:6:GLY:N	2.52	0.62
50:BR:7:GLU:O	50:BR:11:VAL:HG23	2.00	0.62
50:BR:3:ILE:HG23	50:BR:38:ARG:CZ	2.29	0.62
55:BW:45:GLN:H	55:BW:91:LEU:HD13	1.61	0.62
2:AA:1284:A:C6	2:AA:1285:G:C2	2.88	0.62
50:BR:26:GLU:CD	50:BR:26:GLU:H	2.02	0.62
45:BM:13:HIS:CG	45:BM:13:HIS:O	2.52	0.62
25:A1:44:THR:HG22	25:A1:48:ARG:NE	2.15	0.62
26:A2:50:ASP:CB	26:A2:53:LYS:HG3	2.30	0.62
28:A4:16:TYR:HE1	28:A4:37:SER:OG	1.82	0.62
28:A4:6:HIS:HB2	28:A4:7:PRO:HD2	1.80	0.62
29:A5:10:LYS:CE	29:A5:16:ARG:HH22	2.00	0.62
30:A6:48:VAL:O	30:A6:50:PHE:CE1	2.53	0.62
2:AA:1155:A:C2	2:AA:1157:G:C1'	2.83	0.62
2:AA:1178:C:N3	2:AA:1179:C:N4	2.48	0.62
2:AA:116:C:C2	2:AA:117:G:C8	2.88	0.62
2:AA:1222:C:N3	2:AA:1223:C:C5	2.67	0.62
2:AA:1275:A:H2	24:A0:16:HIS:HB3	1.61	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1301:A:N7	2:AA:1303:G:C8	2.68	0.62
2:AA:1539:G:H2'	2:AA:1540:G:N7	2.14	0.62
2:AA:1773:A:H2'	2:AA:1774:C:H5'	1.82	0.62
2:AA:1778:U:C2	2:AA:1785:A:N6	2.67	0.62
2:AA:17:G:P	29:A5:13:LYS:HZ2	2.23	0.62
2:AA:1814:G:H3'	2:AA:1815:A:C8	2.31	0.62
2:AA:1858:G:O6	2:AA:1884:A:C2	2.53	0.62
2:AA:1954:G:O2'	2:AA:1955:U:O5'	2.15	0.62
2:AA:532:A:OP2	2:AA:2021:C:C5	2.52	0.62
2:AA:2230:G:H2'	2:AA:2231:C:C6	2.31	0.62
2:AA:2320:A:N1	16:AQ:13:ARG:HG2	2.15	0.62
2:AA:2355:C:O3'	27:A3:21:LEU:CD1	2.45	0.62
2:AA:2400:G:C2	2:AA:2417:C:N3	2.68	0.62
2:AA:2581:G:N1	2:AA:2610:C:C2'	2.60	0.62
2:AA:2616:C:C2'	2:AA:2617:C:C6	2.70	0.62
2:AA:2712:U:H2'	2:AA:712(A):A:C5'	2.25	0.62
2:AA:2645:G:O2'	2:AA:2732:G:O3'	2.18	0.62
2:AA:2748:A:C6	2:AA:2757:A:N7	2.68	0.62
2:AA:2758:A:H3'	2:AA:2758:A:P	2.40	0.62
2:AA:2816:C:C2'	2:AA:2817:G:H5'	2.30	0.62
2:AA:290:G:C2'	2:AA:291:C:O5'	2.47	0.62
2:AA:447:A:N6	2:AA:454:A:N7	2.47	0.62
2:AA:19:C:H5'	2:AA:553:U:OP1	2.00	0.62
2:AA:627:A:N3	2:AA:637:A:N3	2.48	0.62
2:AA:684:G:OP1	31:A7:16:HIS:NE2	2.32	0.62
2:AA:715:G:O2'	2:AA:716:A:H5'	2.00	0.62
2:AA:734:A:H2'	2:AA:735:A:C8	2.35	0.62
2:AA:806:C:N1	2:AA:807:U:H5	1.98	0.62
2:AA:940:G:N1	2:AA:941:A:C8	2.68	0.62
2:AA:978:G:C5	2:AA:979:G:C6	2.87	0.62
5:AE:216:ARG:HD2	5:AE:253:GLN:HA	1.82	0.62
5:AE:207:GLY:HA2	5:AE:257:GLY:CA	2.29	0.62
5:AE:269:ILE:CD1	5:AE:297:LYS:HG2	2.30	0.62
8:AH:37:HIS:HB2	8:AH:40:MET:SD	2.40	0.62
2:AA:911:A:N1	15:AP:16:ARG:HA	2.15	0.62
15:AP:15:THR:CB	15:AP:20:ILE:CG2	2.69	0.62
15:AP:59:ASN:N	15:AP:59:ASN:HD22	1.97	0.62
17:AR:10:GLY:HA3	17:AR:52:THR:CB	2.27	0.62
18:AS:29:LEU:O	18:AS:30:GLU:C	2.36	0.62
18:AS:85:VAL:O	18:AS:85:VAL:HG23	1.99	0.62
18:AS:96:ILE:HD12	18:AS:96:ILE:C	2.19	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:123:VAL:HA	21:AV:161:ALA:H	1.64	0.62
34:BA:106:C:H2'	34:BA:107:G:O5'	1.99	0.62
34:BA:1109:C:H2'	34:BA:1110:A:O4'	1.99	0.62
34:BA:118:U:O4	34:BA:289:G:O5'	2.17	0.62
34:BA:1519:A:C2'	34:BA:1520:G:H5'	2.30	0.62
34:BA:258:G:C4	34:BA:259:G:N7	2.67	0.62
34:BA:301:G:H21	34:BA:302:G:H1'	1.65	0.62
34:BA:779:C:C2'	34:BA:780:A:O5'	2.48	0.62
34:BA:939:G:OP1	42:BJ:99:LEU:HD21	2.00	0.62
35:BB:66:A:C2'	35:BB:67:A:C8	2.83	0.62
35:BC:18:G:C2'	35:BC:19:G:O5'	2.48	0.62
37:BE:141:GLU:O	37:BE:145:LEU:HD23	1.98	0.62
37:BE:169:LYS:HZ2	37:BE:170:GLU:HA	1.63	0.62
38:BF:110:ASN:ND2	38:BF:144:SER:OG	2.32	0.62
39:BG:128:VAL:HG12	39:BG:129:ASN:C	2.20	0.62
39:BG:145:GLU:HG3	39:BG:184:LYS:CE	2.23	0.62
41:BI:11:ASN:HD21	41:BI:13:ASN:CB	2.13	0.62
42:BJ:71:PRO:HD3	42:BJ:103:TRP:CZ3	2.35	0.62
43:BK:18:ARG:NH1	43:BK:18:ARG:N	2.47	0.62
43:BK:26:VAL:HG13	43:BK:27:PRO:N	2.15	0.62
43:BK:4:ASP:HB3	43:BK:6:ILE:CG2	2.30	0.62
45:BM:4:ILE:HG12	45:BM:100:THR:CG2	2.29	0.62
49:BQ:6:LEU:HD23	49:BQ:8:GLU:OE2	2.00	0.62
50:BR:16:ALA:HB2	50:BR:21:ASP:HB3	1.82	0.62
50:BR:29:VAL:HG21	50:BR:81:LEU:HD11	1.81	0.62
52:BT:34:LYS:HG3	52:BT:35:VAL:N	2.15	0.62
56:BX:12:LYS:HZ2	56:BX:19:GLY:N	1.97	0.62
56:BX:20:LYS:HG2	56:BX:21:TYR:N	2.15	0.62
8:AH:29:LYS:CE	8:AH:80:LYS:HA	2.30	0.62
36:B1:23:U:O4	36:B1:31:G:O6	2.17	0.62
2:AA:2246:G:N3	2:AA:2247:A:C8	2.68	0.62
44:BL:85:LEU:CD1	44:BL:89:ASN:HD22	2.13	0.62
25:A1:57:PHE:O	25:A1:58:ARG:C	2.37	0.62
26:A2:15:SER:HA	26:A2:99:GLN:NE2	2.15	0.62
27:A3:25:LYS:HZ1	27:A3:57:HIS:CE1	2.18	0.62
31:A7:18:PHE:O	31:A7:19:ARG:C	2.38	0.62
33:A9:9:LYS:CE	33:A9:16:VAL:HG23	2.27	0.62
2:AA:1011:G:O2'	2:AA:1013:C:C5'	2.47	0.62
2:AA:1078:U:H5''	2:AA:1079:C:OP1	2.00	0.62
2:AA:111:A:H2'	2:AA:112:U:H5''	1.82	0.62
2:AA:976:C:C4'	2:AA:1156:A:N6	2.62	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1195:G:C2'	2:AA:1226:G:N2	2.63	0.62
2:AA:1301:A:HO2'	2:AA:1302:A:H8	1.48	0.62
2:AA:1394:U:H4'	2:AA:1603:A:H5'	1.82	0.62
2:AA:1476:C:H5	2:AA:1477:A:N3	1.97	0.62
2:AA:1818:U:O5'	4:AD:155:ARG:CG	2.40	0.62
2:AA:1950:G:C5	2:AA:1951:U:C5	2.88	0.62
2:AA:1957:C:C4	2:AA:1958:C:N4	2.68	0.62
2:AA:1987:G:H2'	2:AA:1988:C:H6	1.65	0.62
2:AA:2043:C:O2	2:AA:2044:C:C6	2.52	0.62
2:AA:184:C:HO2'	2:AA:217:G:H21	1.47	0.62
2:AA:2181:G:C2	2:AA:2182:G:O4'	2.53	0.62
2:AA:2238:G:H5''	2:AA:2239:G:N7	2.14	0.62
2:AA:2284:C:N3	2:AA:2285:C:C4	2.67	0.62
2:AA:2424:C:C5'	2:AA:2425:A:H5'	2.30	0.62
2:AA:2513:G:C5	2:AA:2514:U:C4	2.87	0.62
2:AA:2515:C:C4	2:AA:2570:G:C6	2.88	0.62
2:AA:2792:G:C2	2:AA:2804:C:C4	2.88	0.62
2:AA:318:C:OP2	2:AA:318:C:C6	2.52	0.62
2:AA:378:C:O2'	2:AA:379:G:H5'	1.99	0.62
2:AA:510:C:H3'	2:AA:512:G:N2	2.13	0.62
2:AA:262:A:H4'	2:AA:609(A):G:OP1	2.00	0.62
2:AA:713:G:N2	2:AA:714:U:C1'	2.63	0.62
2:AA:58:G:O2'	2:AA:71:A:N6	2.33	0.62
1:AB:6:C:N3	1:AB:114:G:O6	2.32	0.62
1:AB:89:G:C2	1:AB:89(A):A:N6	2.68	0.62
3:AC:110:PHE:CE1	3:AC:136:LEU:HB3	2.35	0.62
3:AC:68:LEU:HB2	3:AC:157:LYS:O	2.00	0.62
4:AD:204:PHE:CD1	4:AD:204:PHE:N	2.66	0.62
5:AE:77:PRO:HB3	5:AE:188:ALA:N	2.14	0.62
2:AA:617:G:OP2	6:AF:42:ARG:NH1	2.32	0.62
6:AF:84:VAL:HG23	6:AF:85:LYS:NZ	2.14	0.62
6:AF:93:LYS:HD3	6:AF:95:GLU:O	1.99	0.62
8:AH:48:VAL:O	8:AH:49:ILE:HG23	2.00	0.62
9:AI:64:LYS:HD3	9:AI:126:GLU:CD	2.20	0.62
9:AJ:63:LEU:CD1	9:AJ:102:ILE:HD12	2.27	0.62
11:AL:45:GLU:OE1	11:AL:70:ILE:HD12	2.00	0.62
11:AL:79:LEU:C	11:AL:79:LEU:HD23	2.20	0.62
13:AN:34:ASN:O	13:AN:35:ILE:C	2.37	0.62
14:AO:68:GLU:O	14:AO:71:GLU:HG2	2.00	0.62
15:AP:42:TYR:O	15:AP:125:TRP:HH2	1.82	0.62
16:AQ:48:VAL:HA	16:AQ:55:ASP:OD1	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AU:27:LEU:CD1	20:AU:31:LEU:HB2	2.30	0.62
20:AU:80:GLU:CG	20:AU:86:GLU:HG2	2.29	0.62
21:AV:103:ARG:HH12	21:AV:139:THR:H	1.44	0.62
21:AV:147:ILE:HG13	21:AV:168:VAL:HG11	1.81	0.62
21:AV:15:ASP:O	21:AV:16:GLU:CB	2.48	0.62
21:AV:113:VAL:O	21:AV:171:VAL:HA	1.99	0.62
22:AW:45:ARG:HH21	22:AW:49:LEU:CG	2.12	0.62
34:BA:1062:U:H2'	34:BA:1063:C:H6	1.60	0.62
34:BA:1234:C:C4'	34:BA:1364:U:O2'	2.48	0.62
34:BA:1381:U:H2'	34:BA:1382:C:O5'	2.00	0.62
34:BA:1394:A:N6	34:BA:1501:C:H5'	2.15	0.62
34:BA:1504:G:H8	34:BA:1504:G:H3'	1.65	0.62
34:BA:296:U:H2'	34:BA:297:G:H8	1.65	0.62
34:BA:597:G:H8	34:BA:597:G:O5'	1.82	0.62
34:BA:665:A:N3	34:BA:732:C:C2	2.67	0.62
34:BA:841:U:H2'	34:BA:848:C:OP1	2.00	0.62
34:BA:22:G:H4'	34:BA:885:G:C8	2.35	0.62
35:BB:16:U:O2'	35:BB:17:U:OP2	2.12	0.62
35:BC:9:A:H5''	35:BC:10:G:OP2	2.00	0.62
34:BA:1104:G:H4'	37:BE:111:ARG:NH1	2.15	0.62
38:BF:191:THR:O	38:BF:193:TYR:N	2.33	0.62
39:BG:11:LEU:O	39:BG:12:CYS:C	2.38	0.62
39:BG:92:VAL:O	39:BG:96:LEU:HD12	2.00	0.62
41:BI:63:TYR:O	41:BI:65:VAL:HG22	2.00	0.62
45:BM:56:HIS:HB3	45:BM:59:SER:OG	2.00	0.62
34:BA:1125:U:O4	45:BM:5:ARG:NH1	2.33	0.62
45:BM:9:ARG:O	45:BM:94:VAL:HG13	1.99	0.62
34:BA:1227:A:O2'	48:BP:115:LYS:CB	2.48	0.62
53:BU:30:ASP:C	53:BU:32:ARG:H	2.04	0.62
54:BV:41:VAL:HB	54:BV:42:PRO:CD	2.30	0.62
34:BA:1225:A:C4'	54:BV:78:ARG:HD3	2.29	0.62
55:BW:13:LEU:O	55:BW:14:LYS:C	2.38	0.62
6:AF:59:GLU:O	6:AF:61:PHE:CE2	2.53	0.62
6:AF:62:GLY:O	6:AF:63:SER:OG	2.16	0.62
10:AK:59:ALA:HA	10:AK:62:LEU:CD1	2.30	0.62
2:AA:2247:A:H2'	2:AA:2248:C:C6	2.33	0.62
2:AA:445:C:H2'	25:A1:3:ARG:NH2	2.14	0.61
25:A1:75:ASN:O	25:A1:78:THR:OG1	2.14	0.61
2:AA:997:G:O3'	25:A1:92:ARG:CZ	2.47	0.61
26:A2:62:GLU:CG	26:A2:98:ILE:HD11	2.21	0.61
2:AA:247:G:H21	32:A8:8:LYS:HZ2	1.45	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1025:G:C8	2:AA:1134:G:H1'	2.35	0.61
2:AA:1165:U:C2'	2:AA:1166:C:C6	2.83	0.61
2:AA:974(A):C:H6	2:AA:1186:G:C2	2.18	0.61
2:AA:119:A:H4'	2:AA:120:U:C5'	2.30	0.61
2:AA:1392:A:H2'	2:AA:1393:A:C4	2.35	0.61
2:AA:1609:A:N7	2:AA:1616:A:N3	2.48	0.61
2:AA:1691:C:C2'	2:AA:1692:U:C5'	2.74	0.61
2:AA:1725:G:N2	2:AA:1726:G:C8	2.68	0.61
2:AA:176:G:H21	2:AA:177:G:C1'	2.12	0.61
2:AA:1803:A:C8	2:AA:1804:C:C5	2.88	0.61
2:AA:1845:G:C2'	2:AA:1846:G:H5'	2.30	0.61
2:AA:1908:C:O2'	2:AA:1909:C:O5'	2.17	0.61
2:AA:1942:C:OP2	2:AA:1943:U:H3'	2.01	0.61
2:AA:2124:G:C8	2:AA:2124:G:C3'	2.79	0.61
2:AA:2483:C:C2	2:AA:2484:G:C8	2.88	0.61
2:AA:2505:G:N7	2:AA:2576:G:H2'	2.15	0.61
2:AA:2531:A:C2'	2:AA:2532:G:O5'	2.49	0.61
2:AA:2577:A:O2'	29:A5:4:HIS:CD2	2.52	0.61
2:AA:2576:G:C5'	2:AA:2577:A:OP1	2.47	0.61
2:AA:2705:A:H2'	2:AA:2706:G:C8	2.35	0.61
2:AA:2727:G:O3'	13:AN:70:ARG:NH1	2.33	0.61
2:AA:2792:G:H1'	2:AA:2805:G:N2	2.15	0.61
2:AA:354:G:C2	2:AA:355:G:N7	2.68	0.61
2:AA:385:C:O2'	2:AA:388:G:N2	2.31	0.61
2:AA:433:C:H2'	2:AA:434:U:C6	2.35	0.61
2:AA:452:G:H3'	2:AA:453:C:C5'	2.29	0.61
2:AA:592:G:N3	2:AA:592:G:H2'	2.12	0.61
2:AA:617:G:O2'	2:AA:618:G:O4'	2.11	0.61
2:AA:681:G:C2	2:AA:682:G:C4	2.88	0.61
2:AA:722:A:N3	2:AA:723:G:C8	2.68	0.61
2:AA:729:G:C2'	2:AA:729:G:N3	2.63	0.61
2:AA:678:C:N4	2:AA:799:G:N1	2.14	0.61
2:AA:830:G:O2'	2:AA:831:G:P	2.58	0.61
2:AA:865:C:H42	2:AA:909:A:H62	1.46	0.61
1:AB:10:C:C6	1:AB:10:C:O5'	2.51	0.61
1:AB:74:U:H2'	1:AB:75:G:H8	1.61	0.61
3:AC:75:LEU:CD1	3:AC:107:TRP:CH2	2.83	0.61
3:AC:77:ILE:HD11	3:AC:113:VAL:HG11	1.81	0.61
3:AC:117:PRO:O	3:AC:118:ASP:CG	2.38	0.61
3:AC:62:VAL:HG12	3:AC:163:PHE:HD2	1.64	0.61
3:AC:49:ILE:HG13	3:AC:50:ASP:N	2.14	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1790:C:OP2	4:AD:224:VAL:HG13	1.99	0.61
4:AD:86:ARG:CD	4:AD:86:ARG:N	2.62	0.61
6:AF:144:PHE:CE2	6:AF:156:LEU:HD13	2.34	0.61
6:AF:220:THR:HA	6:AF:224:ALA:HB2	1.81	0.61
2:AA:452:G:OP1	6:AF:52:ALA:CB	2.48	0.61
6:AF:87:ARG:NH1	6:AF:87:ARG:HG2	2.15	0.61
7:AG:99:ASP:N	7:AG:104:PHE:HD2	1.97	0.61
8:AH:87:GLU:CD	8:AH:89:VAL:HG23	2.20	0.61
9:AI:69:ASN:HB3	9:AI:72:GLN:HG3	1.82	0.61
9:AJ:62:VAL:HA	9:AJ:101:VAL:HA	1.81	0.61
9:AJ:18:LEU:CD1	9:AJ:44:VAL:HG12	2.30	0.61
11:AL:17:LYS:O	11:AL:18:ALA:HB2	1.99	0.61
11:AL:42:PHE:CZ	11:AL:58:ILE:HD11	2.35	0.61
11:AL:11:LEU:HD11	11:AL:58:ILE:HD12	1.82	0.61
13:AN:7:ARG:CZ	13:AN:44:LYS:CD	2.77	0.61
13:AN:11:ALA:CB	13:AN:99:PHE:HB3	2.30	0.61
15:AP:84:ARG:NH2	15:AP:123:ILE:HD12	2.15	0.61
20:AU:49:GLU:OE2	20:AU:97:ARG:CZ	2.48	0.61
21:AV:40:ASP:C	21:AV:44:ARG:HG2	2.19	0.61
21:AV:48:THR:HG22	21:AV:48:THR:O	2.00	0.61
23:AX:37:LEU:CB	23:AX:43:ILE:HG21	2.30	0.61
34:BA:110:C:O2	34:BA:111:G:O4'	2.18	0.61
34:BA:1117:G:C6	34:BA:1184:G:C6	2.88	0.61
34:BA:113:G:C8	34:BA:114:U:H5	2.18	0.61
34:BA:1244:C:P	56:BX:9:ARG:HD3	2.39	0.61
34:BA:1261:A:C2	34:BA:1262:C:C2	2.87	0.61
34:BA:1266:G:N2	34:BA:1270:C:N4	2.47	0.61
34:BA:1298:C:C3'	42:BJ:114:ARG:NH1	2.60	0.61
34:BA:15:G:C4'	40:BH:24:ARG:HH12	2.12	0.61
34:BA:164:U:H2'	34:BA:165:C:C5	2.35	0.61
34:BA:164:U:H2'	34:BA:165:C:C6	2.35	0.61
34:BA:22:G:C3'	34:BA:23:C:H6	2.13	0.61
34:BA:238:G:N2	34:BA:239:U:C2	2.68	0.61
34:BA:246:A:N1	34:BA:279:A:N7	2.48	0.61
34:BA:327:A:C6	34:BA:329:A:C6	2.88	0.61
34:BA:506:G:O6	34:BA:525:C:N4	2.33	0.61
34:BA:972:C:H2'	34:BA:973:G:C8	2.35	0.61
34:BA:994:A:H2	49:BQ:4:LYS:HB3	1.64	0.61
37:BE:100:GLY:O	37:BE:104:ASN:HB3	2.00	0.61
37:BE:101:MET:HA	37:BE:108:ILE:CD1	2.30	0.61
37:BE:40:HIS:C	37:BE:41:ILE:HD12	2.19	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BF:65:ALA:O	38:BF:66:VAL:HB	1.99	0.61
39:BG:114:ARG:O	39:BG:117:ALA:HB3	2.00	0.61
39:BG:26:CYS:C	39:BG:31:CYS:HB2	2.20	0.61
39:BG:13:ARG:NH1	39:BG:36:ARG:HB3	2.14	0.61
40:BH:35:GLY:HA3	40:BH:112:LEU:HD12	1.81	0.61
40:BH:78:HIS:HB3	43:BK:107:LEU:CG	2.30	0.61
41:BI:31:GLU:O	41:BI:34:GLY:N	2.33	0.61
42:BJ:94:ARG:NH1	42:BJ:94:ARG:HG3	2.13	0.61
43:BK:34:GLU:OE2	43:BK:118:VAL:HG23	1.99	0.61
45:BM:94:VAL:HG12	45:BM:95:GLU:N	2.08	0.61
46:BN:88:GLY:O	46:BN:90:GLY:N	2.32	0.61
47:BO:117:ARG:HH21	47:BO:123:LYS:CA	2.13	0.61
34:BA:1230:C:O2'	48:BP:126:LYS:HG3	2.00	0.61
52:BT:29:HIS:CE1	52:BT:31:LEU:HB3	2.35	0.61
54:BV:15:LEU:HD12	54:BV:44:MET:CE	2.29	0.61
35:BB:72:C:N3	35:BB:73:A:C8	2.68	0.61
6:AF:59:GLU:CA	6:AF:59:GLU:OE2	2.48	0.61
2:AA:1155:A:O3'	25:A1:55:ARG:NH2	2.33	0.61
26:A2:10:LYS:O	26:A2:12:TYR:N	2.32	0.61
28:A4:15:ILE:HG12	28:A4:36:TRP:CZ3	2.35	0.61
28:A4:7:PRO:HG2	28:A4:60:ASN:CB	2.30	0.61
29:A5:15:LYS:HZ3	29:A5:15:LYS:HB2	1.62	0.61
31:A7:21:ARG:HD2	31:A7:31:LEU:HD22	1.82	0.61
2:AA:81:G:C2	2:AA:106:C:C4	2.87	0.61
2:AA:1144:G:O2'	2:AA:1145:C:H5'	2.00	0.61
2:AA:1288:U:C2	2:AA:1327:C:C2	2.88	0.61
2:AA:1587:A:C6	2:AA:1588:C:N4	2.68	0.61
2:AA:1300:U:N1	2:AA:1626:G:N2	2.47	0.61
2:AA:187:G:C2'	2:AA:188:G:H5'	2.31	0.61
2:AA:1899:G:H2'	2:AA:1900:A:OP2	1.99	0.61
2:AA:2056:G:N1	29:A5:4:HIS:O	2.33	0.61
2:AA:2090:G:H1	2:AA:2227:A:N6	1.98	0.61
2:AA:2343:C:C2'	2:AA:2344:U:H5'	2.30	0.61
2:AA:2287:A:N1	2:AA:2346:A:N7	2.48	0.61
2:AA:2471:C:C2'	2:AA:2472:G:O5'	2.47	0.61
2:AA:2481:G:HO2'	2:AA:2482:G:H8	1.48	0.61
2:AA:2553:G:O6	2:AA:2554:U:O2	2.18	0.61
2:AA:2726:U:C3'	2:AA:2727:G:H8	2.13	0.61
2:AA:2769:C:H2'	2:AA:2770:G:C5'	2.30	0.61
2:AA:2776:A:C1'	2:AA:2778:A:C8	2.80	0.61
2:AA:2822:G:H5''	5:AE:258:TYR:CZ	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2840:C:C5'	24:A0:53:HIS:CD2	2.83	0.61
2:AA:290:G:C2	2:AA:350:U:C2	2.87	0.61
2:AA:440:G:OP1	20:AU:3:GLN:HG3	2.01	0.61
2:AA:461:C:O2	2:AA:461:C:H2'	1.99	0.61
2:AA:558:G:H2'	2:AA:559:G:H5'	1.81	0.61
2:AA:569:U:O4'	2:AA:946:G:O2'	2.15	0.61
2:AA:629:G:OP1	32:A8:17:THR:HG22	2.00	0.61
2:AA:701:G:H2'	2:AA:702:G:H8	1.65	0.61
2:AA:74:A:H4'	2:AA:75:G:O4'	2.00	0.61
2:AA:789:A:C2'	2:AA:790:C:OP1	2.48	0.61
2:AA:823:G:C2'	2:AA:824:A:C8	2.76	0.61
2:AA:901:A:C5	2:AA:902:C:C5	2.87	0.61
2:AA:865:C:H42	2:AA:909:A:N6	1.98	0.61
4:AD:128:ALA:HB2	4:AD:190:THR:HB	1.80	0.61
2:AA:2571:C:O2'	5:AE:243:PRO:HD3	2.00	0.61
5:AE:75:THR:O	5:AE:292:PRO:HB2	2.00	0.61
7:AG:103:ASN:OD1	7:AG:133:ASN:HA	1.99	0.61
8:AH:101:LYS:NZ	8:AH:115:GLU:HB2	2.15	0.61
8:AH:37:HIS:NE2	8:AH:64:HIS:HE1	1.96	0.61
8:AH:18:VAL:HG21	8:AH:44:VAL:CG1	2.29	0.61
9:AJ:63:LEU:HD13	9:AJ:66:PHE:CZ	2.35	0.61
12:AM:15:ARG:CA	12:AM:44:ALA:HA	2.29	0.61
13:AN:106:LEU:CD1	13:AN:114:ILE:HG21	2.31	0.61
13:AN:87:ILE:HG22	13:AN:88:ARG:N	2.14	0.61
15:AP:87:LYS:NZ	15:AP:115:SER:HA	2.14	0.61
15:AP:118:ALA:O	15:AP:119:ASN:HB3	2.01	0.61
15:AP:28:ILE:HG12	15:AP:62:GLU:OE2	1.99	0.61
16:AQ:32:PRO:HD2	16:AQ:101:VAL:H	1.65	0.61
2:AA:2320:A:H62	16:AQ:9:PRO:CG	2.12	0.61
18:AS:23:LEU:HD21	29:A5:27:ALA:CB	2.29	0.61
23:AX:12:PRO:HG2	23:AX:13:ILE:HD13	1.82	0.61
23:AX:26:LEU:CD2	23:AX:46:ASN:HB3	2.30	0.61
23:AX:54:VAL:HG23	23:AX:55:ARG:N	2.14	0.61
36:B1:46:A:OP2	36:B1:47:U:H5	1.82	0.61
34:BA:1044:A:H2'	34:BA:1045:C:C5'	2.30	0.61
34:BA:1127:G:H22	34:BA:1144:G:N2	1.98	0.61
34:BA:1240:U:OP2	42:BJ:116:ALA:N	2.26	0.61
34:BA:1256:A:C8	38:BF:27:LYS:NZ	2.63	0.61
34:BA:1299:A:O2'	34:BA:1300:G:O5'	2.07	0.61
34:BA:1397:C:O2'	34:BA:1398:A:OP2	2.15	0.61
34:BA:285:G:H2'	34:BA:286:G:H8	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:292:G:N2	34:BA:309:G:C4	2.68	0.61
34:BA:440:A:OP2	34:BA:442:C:H5	1.83	0.61
34:BA:522:C:H2'	34:BA:523:A:O5'	2.00	0.61
34:BA:55:A:H2'	34:BA:56:U:O4'	2.00	0.61
34:BA:709:G:O2'	34:BA:710:G:H5'	2.00	0.61
34:BA:866:C:C5	34:BA:867:G:H1'	2.35	0.61
34:BA:887:G:H2'	34:BA:888:G:C8	2.35	0.61
34:BA:8:A:H3'	34:BA:8:A:OP1	1.99	0.61
2:AA:1923:U:HO2'	35:BC:12:U:H1'	1.64	0.61
37:BE:115:LEU:CB	37:BE:145:LEU:HD12	2.23	0.61
37:BE:218:ALA:C	37:BE:220:ASP:N	2.51	0.61
38:BF:8:ILE:O	38:BF:11:ARG:N	2.31	0.61
42:BJ:49:ILE:HG23	42:BJ:53:LYS:HG3	1.83	0.61
42:BJ:71:PRO:HD3	42:BJ:103:TRP:HZ3	1.65	0.61
43:BK:28:ALA:O	43:BK:29:SER:HB2	2.00	0.61
43:BK:9:MET:O	43:BK:11:THR:N	2.33	0.61
45:BM:25:GLU:O	45:BM:28:ARG:HB2	1.99	0.61
45:BM:55:LYS:O	45:BM:56:HIS:CG	2.53	0.61
46:BN:84:VAL:HG23	46:BN:111:ASP:H	1.64	0.61
52:BT:11:VAL:HG22	52:BT:20:THR:CB	2.30	0.61
52:BT:5:VAL:CG1	52:BT:6:LEU:N	2.62	0.61
52:BT:86:GLU:HA	52:BT:89:LEU:HD12	1.82	0.61
54:BV:39:THR:O	54:BV:41:VAL:HG13	1.99	0.61
55:BW:61:SER:O	55:BW:65:LYS:HG2	2.00	0.61
10:AK:75:LEU:HD13	10:AK:76:THR:N	2.03	0.61
24:A0:50:HIS:CE1	24:A0:54:LEU:HD21	2.35	0.61
24:A0:89:ASP:CG	24:A0:90:ARG:N	2.52	0.61
24:A0:97:VAL:HG22	24:A0:114:VAL:CG1	2.31	0.61
25:A1:47:TYR:OH	26:A2:76:SER:N	2.33	0.61
26:A2:87:ARG:NH1	26:A2:87:ARG:CB	2.63	0.61
28:A4:54:GLY:O	28:A4:55:ARG:CB	2.48	0.61
30:A6:35:LEU:O	30:A6:36:GLU:HG3	2.00	0.61
31:A7:30:ILE:CD1	31:A7:33:ARG:NH1	2.62	0.61
2:AA:1176:G:C8	2:AA:1177:A:O4'	2.53	0.61
2:AA:1265:A:O5'	2:AA:1267:U:O2	2.18	0.61
2:AA:1418:G:OP1	2:AA:1588:C:C4'	2.48	0.61
2:AA:1572:A:H2'	2:AA:1572:A:N3	2.16	0.61
2:AA:1576:U:C5	2:AA:1577:C:N3	2.68	0.61
2:AA:1814:G:H2'	2:AA:1815:A:N7	2.15	0.61
2:AA:1992:G:O2'	2:AA:1993:U:OP2	2.12	0.61
2:AA:2103:C:N4	2:AA:2186:G:N1	2.26	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2137:C:P	2:AA:2137:C:O4'	2.58	0.61
2:AA:213:A:H2'	2:AA:214:G:O4'	1.99	0.61
2:AA:2305:A:H8	2:AA:2305:A:H3'	1.64	0.61
2:AA:238:C:H2'	2:AA:239:U:O5'	2.00	0.61
2:AA:2432:A:C2	2:AA:2433:A:N1	2.68	0.61
2:AA:2530:A:H2'	2:AA:2531:A:C5'	2.14	0.61
2:AA:2626:C:O5'	2:AA:2626:C:C6	2.48	0.61
2:AA:2720:U:O2	2:AA:2720:U:C2'	2.47	0.61
2:AA:2792:G:N2	2:AA:2793:G:C2	2.68	0.61
2:AA:332:A:H2'	2:AA:334:C:OP2	2.00	0.61
2:AA:498:G:C8	2:AA:498:G:H3'	2.35	0.61
2:AA:65:C:N3	2:AA:66:C:H5	1.99	0.61
2:AA:673:C:O3'	6:AF:80:VAL:HG11	2.00	0.61
2:AA:780:G:C2'	2:AA:782:A:N7	2.56	0.61
2:AA:853:G:N2	2:AA:924:C:N3	2.47	0.61
1:AB:45:A:N3	1:AB:45:A:H2'	2.15	0.61
4:AD:94:ASN:OD1	4:AD:100:LYS:HD3	2.00	0.61
4:AD:116:MET:O	4:AD:127:ASN:OD1	2.18	0.61
6:AF:52:ALA:HA	6:AF:55:ARG:NH2	2.15	0.61
6:AF:91:PRO:HB2	6:AF:92:PRO:CD	2.30	0.61
7:AG:23:VAL:C	7:AG:24:HIS:CG	2.73	0.61
7:AG:29:HIS:ND1	7:AG:69:ILE:CG1	2.63	0.61
7:AG:80:ALA:O	7:AG:84:LEU:HG	2.00	0.61
8:AH:37:HIS:CG	8:AH:40:MET:SD	2.93	0.61
8:AH:9:GLU:C	8:AH:49:ILE:HD11	2.20	0.61
8:AH:93:TYR:CE2	8:AH:159:LYS:HE2	2.35	0.61
10:AK:3:VAL:HB	10:AK:19:LYS:C	2.12	0.61
11:AL:114:PRO:C	11:AL:116:LEU:N	2.52	0.61
12:AM:54:VAL:HG13	12:AM:138:THR:OG1	2.00	0.61
13:AN:2:ILE:N	13:AN:67:ARG:NH2	2.48	0.61
13:AN:78:ARG:HB2	17:AR:21:PHE:CD1	2.35	0.61
14:AO:69:ILE:HB	14:AO:73:VAL:HG21	1.81	0.61
15:AP:140:TYR:O	15:AP:141:MET:C	2.37	0.61
15:AP:59:ASN:HD22	15:AP:60:ALA:H	1.44	0.61
16:AQ:22:GLN:C	16:AQ:25:ARG:HB3	2.17	0.61
2:AA:2009:G:C5'	18:AS:40:ASN:HD21	2.12	0.61
20:AU:62:VAL:CA	20:AU:74:VAL:HG22	2.28	0.61
21:AV:104:SER:O	21:AV:105:GLN:NE2	2.32	0.61
21:AV:118:HIS:CE1	21:AV:167:THR:C	2.73	0.61
21:AV:123:VAL:HA	21:AV:161:ALA:HB2	1.81	0.61
21:AV:168:VAL:O	21:AV:169:VAL:CG2	2.47	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1181:G:H2'	34:BA:1182:G:O4'	2.00	0.61
34:BA:1191:A:H2'	34:BA:1191:A:N3	2.15	0.61
34:BA:1258:G:H1	34:BA:1277:C:H42	1.49	0.61
34:BA:1314:C:N4	54:BV:4:SER:OG	2.33	0.61
34:BA:133:U:O2'	34:BA:134:A:C8	2.47	0.61
34:BA:15:G:O6	34:BA:1396:A:C6	2.53	0.61
34:BA:246:A:N1	34:BA:279:A:C5	2.68	0.61
34:BA:259:G:H2'	34:BA:260:G:C8	2.35	0.61
34:BA:370:C:H2'	34:BA:371:G:H8	1.66	0.61
34:BA:607:A:C2	34:BA:608:A:H1'	2.36	0.61
34:BA:703:G:O2'	34:BA:704:A:OP2	2.17	0.61
34:BA:771:G:H2'	34:BA:772:U:C6	2.32	0.61
34:BA:780:A:H3'	34:BA:780:A:C8	2.34	0.61
34:BA:900:A:H2'	34:BA:901:A:O5'	2.00	0.61
35:BB:54:U:H6	35:BB:54:U:C4'	2.13	0.61
35:BB:8:U:O5'	35:BB:8:U:H6	1.82	0.61
35:BC:33:U:H3'	35:BC:33:U:H6	1.64	0.61
37:BE:221:LEU:O	37:BE:221:LEU:HD22	2.00	0.61
37:BE:77:ALA:CB	37:BE:80:ILE:HD12	2.30	0.61
40:BH:91:LEU:HA	40:BH:119:LEU:O	2.00	0.61
40:BH:149:GLU:O	40:BH:152:ARG:N	2.34	0.61
40:BH:20:GLN:O	40:BH:23:GLY:O	2.19	0.61
42:BJ:116:ALA:O	42:BJ:117:ALA:C	2.38	0.61
42:BJ:139:GLU:O	42:BJ:142:GLU:HB2	2.00	0.61
34:BA:932:C:H5''	42:BJ:3:ARG:HB3	1.81	0.61
42:BJ:50:ILE:HG21	42:BJ:58:PRO:HA	1.83	0.61
34:BA:1250:A:OP1	44:BL:66:ARG:CD	2.48	0.61
44:BL:97:LYS:HB3	44:BL:98:PRO:HD3	1.82	0.61
46:BN:20:TYR:CE1	46:BN:83:ILE:HD13	2.36	0.61
46:BN:27:ASN:OD1	46:BN:55:LYS:HD2	2.00	0.61
34:BA:462:G:N2	51:BS:82:GLN:NE2	2.34	0.61
52:BT:70:ARG:O	52:BT:71:PHE:HD1	1.83	0.61
54:BV:15:LEU:O	54:BV:16:LEU:C	2.38	0.61
48:BP:120:LYS:CG	48:BP:121:LYS:N	2.63	0.61
2:AA:1510:A:H8	2:AA:1511:A:C6	2.13	0.61
8:AH:169:ARG:HA	8:AH:169:ARG:HE	1.66	0.61
24:A0:41:ALA:HB1	24:A0:114:VAL:CG2	2.28	0.61
25:A1:115:ASN:O	25:A1:117:ARG:N	2.33	0.61
2:AA:2395:C:H5''	28:A4:28:ARG:NH1	2.15	0.61
30:A6:19:GLY:CA	30:A6:44:ALA:HB3	2.30	0.61
2:AA:1092:C:C3'	2:AA:1092:C:C6	2.84	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1305:C:O2'	2:AA:1306:C:C5'	2.49	0.61
2:AA:1612:C:H2'	31:A7:3:ARG:HE	1.62	0.61
2:AA:172:C:O5'	2:AA:172:C:H6	1.82	0.61
2:AA:1808:U:H2'	2:AA:1808:U:O2	2.00	0.61
2:AA:1834:U:O2	2:AA:1834:U:H2'	1.99	0.61
2:AA:1949:G:H2'	2:AA:1950:G:H8	1.63	0.61
2:AA:2046:G:OP1	29:A5:18:MET:C	2.39	0.61
2:AA:2191:G:H2'	2:AA:2192:G:O4'	1.99	0.61
2:AA:2476:A:C2'	2:AA:2477:C:H5'	2.31	0.61
2:AA:2479:G:H2'	2:AA:2480:C:O4'	2.00	0.61
2:AA:2637:U:H2'	2:AA:2638:G:C1'	2.30	0.61
2:AA:2686:G:C6	2:AA:2687:U:C5	2.89	0.61
2:AA:2885:C:N4	2:AA:2886:G:C8	2.68	0.61
2:AA:478:A:O2'	20:AU:90:PRO:HG3	2.00	0.61
2:AA:565:C:OP2	26:A2:79:GLN:HB3	2.00	0.61
2:AA:611:C:H6	2:AA:618:G:H22	1.47	0.61
2:AA:625:G:H2'	2:AA:626:U:H5'	1.82	0.61
2:AA:749:C:O2'	2:AA:1617:C:C2'	2.48	0.61
2:AA:792:G:C8	2:AA:2440:C:O2	2.54	0.61
2:AA:989:G:H21	2:AA:990:A:H62	1.46	0.61
4:AD:118:GLY:O	4:AD:119:PRO:C	2.39	0.61
4:AD:140:VAL:HG11	4:AD:189:ALA:HB1	1.82	0.61
4:AD:70:LYS:CG	4:AD:70:LYS:O	2.48	0.61
5:AE:220:GLN:OE1	5:AE:223:LYS:NZ	2.33	0.61
2:AA:2575:C:C2'	5:AE:237:ASN:ND2	2.63	0.61
5:AE:268:LEU:HD11	5:AE:294:THR:HB	1.81	0.61
5:AE:41:PHE:HZ	5:AE:173:ARG:HD3	1.63	0.61
6:AF:200:PRO:HD3	6:AF:214:THR:CG2	2.30	0.61
6:AF:56:THR:HB	6:AF:57:PRO:CD	2.29	0.61
7:AG:38:GLU:HA	7:AG:41:LEU:HG	1.81	0.61
8:AH:112:VAL:HG12	8:AH:113:GLU:N	2.15	0.61
9:AI:83:LEU:CD1	9:AI:91:LEU:HD12	2.31	0.61
9:AJ:86:LYS:NZ	11:AL:10:LYS:HD2	2.16	0.61
9:AJ:71:ILE:CD1	11:AL:62:GLU:H	2.13	0.61
13:AN:2:ILE:HG22	13:AN:21:VAL:HG21	1.82	0.61
13:AN:79:PHE:C	13:AN:81:GLU:H	2.03	0.61
15:AP:140:TYR:O	15:AP:142:LYS:N	2.33	0.61
15:AP:45:GLN:HA	15:AP:125:TRP:CD1	2.36	0.61
15:AP:46:VAL:O	15:AP:124:ALA:O	2.18	0.61
18:AS:69:LEU:HA	18:AS:109:GLU:HA	1.83	0.61
18:AS:82:LEU:CB	18:AS:98:LYS:HB2	2.26	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AU:108:ARG:O	20:AU:112:LEU:HD23	2.00	0.61
20:AU:21:LYS:CG	20:AU:22:GLN:N	2.63	0.61
23:AX:20:LYS:HA	23:AX:23:LEU:HG	1.82	0.61
23:AX:40:THR:HG23	23:AX:43:ILE:HG12	1.82	0.61
34:BA:1044:A:C2'	34:BA:1045:C:H5'	2.30	0.61
34:BA:1235:U:H5''	56:BX:3:LYS:CB	2.29	0.61
34:BA:1274:G:H2'	34:BA:1275:A:C8	2.29	0.61
34:BA:1319:A:C2	34:BA:1361:G:N2	2.68	0.61
34:BA:1409:C:H2'	34:BA:1410:G:H8	1.63	0.61
34:BA:284:G:O2'	34:BA:285:G:H5'	2.00	0.61
34:BA:375:U:H2'	34:BA:376:G:H8	1.65	0.61
34:BA:106:C:O2	34:BA:379:C:C5'	2.48	0.61
34:BA:543:C:H2'	34:BA:544:G:H8	1.64	0.61
34:BA:640:A:O2'	34:BA:641:U:H5'	1.99	0.61
34:BA:687:A:C8	34:BA:701:C:N4	2.68	0.61
34:BA:8:A:H61	39:BG:209:ARG:HB2	1.65	0.61
35:BB:34:G:H21	35:BB:35:A:H2	1.31	0.61
35:BB:6:U:C2	35:BB:7:U:C6	2.88	0.61
35:BC:50:U:N3	35:BC:65:G:C2	2.68	0.61
37:BE:16:HIS:CE1	37:BE:213:LEU:CD1	2.81	0.61
37:BE:25:ASN:OD1	37:BE:27:LYS:HB2	1.99	0.61
42:BJ:126:ASP:O	42:BJ:129:GLU:CB	2.41	0.61
43:BK:25:ASP:OD2	43:BK:58:TYR:CD2	2.53	0.61
44:BL:93:ARG:NE	44:BL:97:LYS:HB2	2.16	0.61
34:BA:676:A:O4'	46:BN:115:PRO:HA	2.01	0.61
48:BP:63:THR:CG2	48:BP:64:TRP:H	2.13	0.61
49:BQ:17:LYS:O	49:BQ:19:ARG:N	2.33	0.61
49:BQ:40:CYS:N	49:BQ:43:CYS:SG	2.71	0.61
51:BS:32:TYR:N	51:BS:32:TYR:HD1	1.98	0.61
34:BA:254:G:O2'	52:BT:18:THR:OG1	2.14	0.61
53:BU:63:GLN:HA	53:BU:66:LEU:CD1	2.30	0.61
55:BW:46:GLU:HB2	55:BW:48:LYS:CD	2.30	0.61
37:BE:132:LYS:HB2	37:BE:133:LYS:HE3	1.83	0.61
8:AH:168:VAL:HG12	8:AH:169:ARG:N	2.13	0.61
24:A0:99:LYS:C	29:A5:44:HIS:NE2	2.54	0.61
25:A1:72:HIS:ND1	25:A1:110:VAL:HG11	2.15	0.61
25:A1:77:SER:OG	25:A1:78:THR:HG23	2.01	0.61
25:A1:5:LYS:C	25:A1:7:GLY:H	2.02	0.61
26:A2:36:LYS:N	26:A2:60:VAL:HG22	2.15	0.61
2:AA:1106:G:C6	2:AA:1107:G:C6	2.88	0.61
2:AA:996:A:N6	2:AA:1160:G:O6	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1315:C:O2'	2:AA:1392:A:O2'	2.02	0.61
2:AA:13:A:O2'	2:AA:14:A:P	2.58	0.61
2:AA:1422:G:C4	2:AA:1423:G:C8	2.89	0.61
2:AA:1424:G:H2'	2:AA:1425:G:O5'	2.00	0.61
2:AA:1458:C:O2'	2:AA:1459:G:C2	2.52	0.61
2:AA:1494:A:C2	2:AA:1495:A:H5'	2.35	0.61
2:AA:1479:G:N2	2:AA:1515:C:C5	2.68	0.61
2:AA:1553:A:C6	2:AA:1556:C:C5	2.89	0.61
2:AA:1589:C:C2	2:AA:1590:U:C6	2.89	0.61
2:AA:1664:A:OP2	2:AA:1664:A:N7	2.34	0.61
2:AA:1731:G:N3	2:AA:1731:G:C2'	2.60	0.61
2:AA:1717:G:C2	2:AA:1742:C:O2	2.50	0.61
2:AA:1797:C:H3'	2:AA:1797:C:C6	2.36	0.61
2:AA:1800:C:C4	2:AA:1817:G:N1	2.69	0.61
2:AA:1819:A:C1'	2:AA:1821:A:C6	2.83	0.61
2:AA:181:A:C8	2:AA:181:A:H5'	2.36	0.61
2:AA:1942:C:C6	2:AA:1943:U:C5	2.89	0.61
2:AA:1947:C:N3	2:AA:1948:G:N7	2.49	0.61
2:AA:1988:C:H2'	2:AA:1989:G:H5'	1.81	0.61
2:AA:2022:U:H3'	2:AA:2617:C:H5''	1.81	0.61
2:AA:2346:A:C1'	2:AA:2383:G:C8	2.82	0.61
2:AA:417:C:N3	2:AA:2407:G:C6	2.69	0.61
2:AA:2460:U:C4	2:AA:2461:C:C4	2.88	0.61
2:AA:2699:C:O2'	2:AA:2700:C:H5'	2.00	0.61
2:AA:305:U:H3	2:AA:312:G:H1	1.46	0.61
2:AA:363(D):G:O2'	2:AA:363(E):U:C5'	2.48	0.61
2:AA:422:A:N1	2:AA:423:A:C2	2.68	0.61
2:AA:500:G:C2'	2:AA:502:A:OP2	2.48	0.61
2:AA:510:C:H3'	2:AA:512:G:C2	2.35	0.61
2:AA:527:C:C5'	2:AA:2779:U:O2	2.47	0.61
2:AA:565:C:OP1	26:A2:79:GLN:O	2.17	0.61
2:AA:99:U:N3	20:AU:107:LYS:HD3	2.16	0.61
1:AB:29:A:H2'	1:AB:30:C:O4'	2.00	0.61
1:AB:9:G:OP1	16:AQ:23:ARG:CZ	2.48	0.61
3:AC:36:LYS:HZ2	3:AC:37:PHE:N	1.96	0.61
4:AD:166:LYS:CB	4:AD:171:VAL:HG12	2.31	0.61
2:AA:2784:C:H5''	5:AE:95:PRO:O	2.01	0.61
6:AF:168:ARG:NE	6:AF:209:GLY:HA3	2.15	0.61
6:AF:30:LEU:N	6:AF:30:LEU:HD23	2.13	0.61
6:AF:39:GLN:CD	6:AF:39:GLN:H	2.03	0.61
7:AG:27:ILE:C	7:AG:29:HIS:H	2.03	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:41:THR:O	8:AH:52:THR:CB	2.48	0.61
8:AH:43:THR:HG1	8:AH:50:THR:C	2.04	0.61
10:AK:21:VAL:HB	10:AK:26:ALA:HB1	1.82	0.61
12:AM:104:TYR:CD1	12:AM:104:TYR:N	2.68	0.61
13:AN:104:ARG:NH1	13:AN:122:ILE:CA	2.49	0.61
13:AN:25:LEU:HB2	13:AN:38:VAL:O	2.00	0.61
15:AP:59:ASN:O	15:AP:60:ALA:C	2.39	0.61
15:AP:57:ARG:O	15:AP:60:ALA:HB3	2.00	0.61
15:AP:86:ARG:HH11	15:AP:120:HIS:CD2	2.16	0.61
15:AP:31:PHE:CZ	15:AP:88:PHE:CD2	2.88	0.61
21:AV:19:ILE:CG1	21:AV:36:ARG:HG2	2.31	0.61
1:AB:76:G:H4'	21:AV:80:HIS:HB3	1.81	0.61
23:AX:12:PRO:O	23:AX:13:ILE:C	2.39	0.61
23:AX:31:LEU:HD13	23:AX:32:GLN:CG	2.31	0.61
23:AX:7:LYS:CB	23:AX:34:GLU:HG2	2.28	0.61
34:BA:1130:A:C4	34:BA:1146:A:C2	2.89	0.61
34:BA:1135:U:N3	34:BA:1137:C:C2	2.68	0.61
34:BA:1343:G:C2	34:BA:1344:C:C2	2.88	0.61
34:BA:1365:G:C6	34:BA:1366:C:C4	2.88	0.61
34:BA:1488:G:H2'	34:BA:1489:G:C8	2.33	0.61
34:BA:176:C:H2'	34:BA:177:C:H6	1.64	0.61
34:BA:24:U:O2'	34:BA:25:C:H5'	2.01	0.61
34:BA:360:A:N6	34:BA:361:G:C6	2.69	0.61
34:BA:437:U:H2'	34:BA:438:G:O4'	2.00	0.61
34:BA:591:U:N3	34:BA:649:G:C6	2.69	0.61
34:BA:678:U:C4	34:BA:679:C:N4	2.68	0.61
34:BA:768:A:N7	34:BA:769:G:C8	2.69	0.61
34:BA:815:A:C2	34:BA:1529:G:C4	2.89	0.61
34:BA:953:G:C6	34:BA:954:G:C5	2.88	0.61
34:BA:974:A:N3	49:BQ:31:ARG:NH2	2.47	0.61
38:BF:44:GLU:HA	38:BF:52:LEU:HD13	1.81	0.61
40:BH:37:ARG:HA	40:BH:112:LEU:O	1.99	0.61
43:BK:112:LEU:CD2	43:BK:113:SER:N	2.64	0.61
44:BL:48:GLU:N	44:BL:49:PRO:HD2	2.16	0.61
46:BN:21:ILE:HG23	46:BN:30:VAL:CG2	2.31	0.61
46:BN:84:VAL:HG21	53:BU:88:LYS:HZ1	1.62	0.61
48:BP:81:LEU:O	48:BP:84:ILE:HG12	1.99	0.61
51:BS:20:VAL:HA	51:BS:36:ILE:HG12	1.80	0.61
52:BT:43:LEU:HD23	52:BT:44:ALA:N	2.15	0.61
52:BT:53:LEU:HD11	52:BT:85:VAL:HG13	1.81	0.61
34:BA:254:G:O3'	52:BT:69:LYS:NZ	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BW:54:LYS:HG2	55:BW:100:ILE:CD1	2.29	0.61
55:BW:22:ARG:O	55:BW:26:ASN:ND2	2.33	0.61
55:BW:44:ALA:HB1	55:BW:92:LEU:HD21	1.80	0.61
35:BB:37:G:OP2	35:BB:39:U:O4	2.17	0.61
10:AK:114:LYS:HE2	10:AK:133:LEU:O	2.00	0.61
24:A0:78:LYS:HG3	24:A0:82:GLU:HG3	1.83	0.61
24:A0:87:TYR:CE2	24:A0:118:GLU:OE1	2.53	0.61
26:A2:20:ILE:HG23	26:A2:67:LYS:HD2	1.82	0.61
2:AA:2261:C:OP2	27:A3:14:ARG:HG2	2.00	0.61
2:AA:1364:G:O6	28:A4:2:GLN:HG3	2.00	0.61
2:AA:1069:A:N6	2:AA:1073:A:C4	2.68	0.61
2:AA:1165:U:H2'	2:AA:1166:C:H6	1.65	0.61
2:AA:1529:A:C6	2:AA:1530:G:O2'	2.54	0.61
2:AA:1701:A:H2'	2:AA:1702:G:H5'	1.82	0.61
2:AA:1725:G:C6	2:AA:1741:C:N4	2.69	0.61
2:AA:1890:A:O5'	2:AA:1890:A:C8	2.53	0.61
2:AA:1891:G:N3	2:AA:1891:G:H2'	2.16	0.61
2:AA:1943:U:C2	2:AA:1945:G:C5'	2.81	0.61
2:AA:2000:G:C4	2:AA:2001:A:N7	2.69	0.61
2:AA:2259:G:N2	2:AA:2282:G:C6	2.68	0.61
2:AA:2530:A:C3'	2:AA:2531:A:H5''	2.30	0.61
2:AA:2888:C:H2'	2:AA:2889:C:O4'	2.00	0.61
2:AA:347:A:N7	2:AA:348:G:C8	2.69	0.61
2:AA:349:G:C2	2:AA:350:U:C6	2.87	0.61
2:AA:424:G:O2'	2:AA:425:G:H5'	2.01	0.61
2:AA:780:G:C5	2:AA:782:A:C6	2.89	0.61
2:AA:84:A:N7	20:AU:111:ARG:NH2	2.48	0.61
2:AA:996:A:H2'	2:AA:997:G:H8	1.66	0.61
4:AD:85:ASN:HB2	4:AD:86:ARG:NH2	2.16	0.61
5:AE:205:THR:HG22	5:AE:261:ARG:CD	2.30	0.61
5:AE:216:ARG:HD3	5:AE:254:GLY:H	1.65	0.61
5:AE:263:GLU:O	5:AE:266:LYS:CE	2.48	0.61
6:AF:87:ARG:O	6:AF:88:SER:HB2	2.00	0.61
8:AH:34:ARG:HH22	8:AH:74:MET:CA	2.12	0.61
9:AI:60:ASP:OD2	9:AI:101:VAL:HG11	2.00	0.61
2:AA:1058:G:C4'	9:AI:2:THR:HA	2.29	0.61
10:AK:2:LYS:HG3	10:AK:18:ILE:HD11	1.83	0.61
11:AL:20:PRO:O	11:AL:23:PRO:HD2	2.01	0.61
12:AM:42:GLU:HA	12:AM:132:LEU:O	2.00	0.61
13:AN:10:VAL:CG2	13:AN:16:ALA:HB3	2.31	0.61
13:AN:5:GLU:O	13:AN:6:SER:C	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:64:ARG:HB2	13:AN:79:PHE:HE1	1.62	0.61
14:AO:94:ARG:CZ	14:AO:118:LEU:HB2	2.31	0.61
15:AP:147:VAL:HG12	15:AP:148:ASN:N	2.14	0.61
15:AP:15:THR:CA	15:AP:20:ILE:HG12	2.31	0.61
15:AP:57:ARG:HB3	15:AP:60:ALA:CB	2.30	0.61
15:AP:69:ASN:ND2	15:AP:69:ASN:C	2.54	0.61
18:AS:8:ARG:CB	18:AS:8:ARG:HH11	2.13	0.61
20:AU:105:ASP:CG	20:AU:108:ARG:HD2	2.20	0.61
20:AU:31:LEU:N	20:AU:34:GLU:OE2	2.34	0.61
21:AV:98:VAL:CA	21:AV:134:LEU:O	2.44	0.61
34:BA:1066:C:C6	34:BA:1067:A:N7	2.69	0.61
34:BA:1089:G:N2	34:BA:1096:C:N3	2.42	0.61
34:BA:1213:A:C6	34:BA:1215:G:N3	2.69	0.61
34:BA:1244:C:OP1	56:BX:9:ARG:NH1	2.34	0.61
34:BA:1269:A:N1	34:BA:1312:G:H1'	2.16	0.61
34:BA:1328:C:H2'	34:BA:1329:A:H8	1.64	0.61
34:BA:236:G:C3'	34:BA:237:C:H6	2.13	0.61
34:BA:378:G:N2	34:BA:385:C:C2	2.67	0.61
34:BA:591:U:H3	34:BA:648:A:H61	1.49	0.61
37:BE:147:LYS:HG3	37:BE:148:TYR:HD1	1.64	0.61
38:BF:8:ILE:HG22	38:BF:9:GLY:N	2.15	0.61
39:BG:110:PHE:O	39:BG:161:ASN:ND2	2.33	0.61
39:BG:151:LYS:O	39:BG:154:ASN:ND2	2.33	0.61
39:BG:177:ASP:C	39:BG:179:GLU:H	2.04	0.61
42:BJ:94:ARG:NH2	42:BJ:98:SER:OG	2.34	0.61
44:BL:114:TYR:HB3	45:BM:60:ARG:NH1	2.16	0.61
44:BL:78:LYS:C	44:BL:78:LYS:HD2	2.20	0.61
48:BP:74:VAL:O	48:BP:78:ILE:CG1	2.47	0.61
51:BS:52:ASP:C	51:BS:52:ASP:OD2	2.38	0.61
53:BU:58:LEU:HB2	53:BU:63:GLN:NE2	2.13	0.61
55:BW:13:LEU:O	55:BW:16:HIS:N	2.33	0.61
56:BX:3:LYS:HB3	56:BX:14:TRP:CD1	2.35	0.61
56:BX:6:ARG:O	56:BX:8:THR:N	2.30	0.61
10:AK:94:THR:HG21	10:AK:96:LYS:HB3	1.81	0.61
18:AS:68:ARG:O	18:AS:110:LYS:N	2.33	0.61
7:AG:50:VAL:O	7:AG:50:VAL:HG12	1.99	0.61
24:A0:49:ASP:O	24:A0:52:ILE:HB	2.01	0.61
30:A6:28:ARG:HB2	30:A6:30:ASN:CB	2.28	0.61
32:A8:60:LEU:O	32:A8:61:MET:O	2.18	0.61
2:AA:1034:G:P	33:A9:18:ARG:HH21	2.22	0.61
33:A9:6:SER:HA	33:A9:8:LYS:NZ	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1028:A:H2'	2:AA:1029:A:H8	1.66	0.61
2:AA:1132:A:H2'	2:AA:1133:U:O2	2.01	0.61
2:AA:1261:C:H3'	2:AA:1261:C:P	2.40	0.61
2:AA:126:A:H2'	2:AA:127:A:O4'	2.01	0.61
2:AA:1325:G:P	2:AA:1616:A:N7	2.74	0.61
2:AA:147:U:H2'	2:AA:148:C:O4'	2.00	0.61
2:AA:1582:C:H3'	2:AA:1583:A:C4'	2.31	0.61
2:AA:1672:C:H2'	2:AA:1673:U:H5'	1.83	0.61
2:AA:1843:C:H2'	2:AA:1844:C:C6	2.36	0.61
2:AA:1907:G:C2	2:AA:1908:C:C5	2.89	0.61
2:AA:1952:A:C6	2:AA:1953:A:N1	2.69	0.61
2:AA:2208:U:O2'	2:AA:2209:C:O4'	2.19	0.61
2:AA:2418:A:C2'	2:AA:2419:U:O4'	2.47	0.61
2:AA:2454:G:C5	2:AA:2455:G:C8	2.88	0.61
2:AA:2652:C:C5	2:AA:2653:U:C4	2.89	0.61
2:AA:2712:U:O2'	2:AA:712(A):A:P	2.58	0.61
2:AA:2732:G:H3'	2:AA:2733:A:H5'	1.83	0.61
2:AA:2892:A:H2'	2:AA:2893:G:C1'	2.31	0.61
2:AA:353:G:H3'	2:AA:354:G:C8	2.35	0.61
2:AA:35:G:C1'	2:AA:454:A:N3	2.63	0.61
2:AA:48:G:N3	2:AA:178:G:C2	2.68	0.61
2:AA:50:U:C6	2:AA:50:U:C3'	2.83	0.61
2:AA:59:U:H2'	2:AA:60:G:H4'	1.81	0.61
2:AA:66:C:O2'	2:AA:67:U:H5'	2.00	0.61
2:AA:730:C:C2'	2:AA:731:C:H5'	2.30	0.61
1:AB:113:C:O2'	1:AB:114:G:H5'	2.01	0.61
3:AC:133:PRO:HG2	3:AC:134:ARG:N	2.15	0.61
3:AC:75:LEU:HD22	3:AC:110:PHE:CD2	2.35	0.61
3:AC:82:LYS:HG3	3:AC:116:THR:HB	1.81	0.61
2:AA:1566:A:C2	4:AD:212:HIS:CB	2.83	0.61
5:AE:225:LYS:CA	5:AE:228:ARG:NH1	2.64	0.61
5:AE:250:VAL:C	5:AE:251:PRO:O	2.39	0.61
2:AA:5:A:H5'	5:AE:94:ARG:HH22	1.66	0.61
6:AF:103:ASN:O	6:AF:107:ARG:HG3	2.01	0.61
6:AF:164:ALA:HA	6:AF:232:LEU:HD12	1.81	0.61
1:AB:58:A:O2'	7:AG:140:ARG:CZ	2.49	0.61
9:AI:53:GLN:HA	9:AI:128:LYS:HZ3	1.66	0.61
2:AA:1058:G:O2'	9:AI:3:ILE:HG13	2.01	0.61
9:AJ:35:ALA:O	9:AJ:39:VAL:CB	2.45	0.61
9:AJ:69:ASN:HB3	9:AJ:72:GLN:HG3	1.82	0.61
10:AK:8:ASP:OD1	10:AK:11:GLY:O	2.19	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:92:PRO:C	11:AL:94:ARG:H	2.04	0.61
12:AM:14:ALA:O	12:AM:15:ARG:CB	2.47	0.61
13:AN:95:GLY:O	13:AN:97:ARG:N	2.28	0.61
15:AP:28:ILE:CD1	15:AP:89:PRO:HG3	2.29	0.61
15:AP:47:GLU:OE1	15:AP:150:ASP:O	2.19	0.61
16:AQ:17:ARG:NH1	16:AQ:106:LEU:HD22	2.14	0.61
18:AS:24:ILE:HG21	18:AS:36:LEU:HG	1.83	0.61
18:AS:26:GLY:O	18:AS:27:LYS:HG3	2.01	0.61
18:AS:28:SER:HB3	18:AS:31:GLU:OE2	2.00	0.61
21:AV:149:ALA:HB3	21:AV:165:GLU:N	2.15	0.61
21:AV:19:ILE:HD13	21:AV:36:ARG:HG2	1.81	0.61
23:AX:26:LEU:HB2	23:AX:28:LEU:CD1	2.26	0.61
34:BA:1166:G:C2	34:BA:1171:G:O6	2.53	0.61
34:BA:134:A:C2	34:BA:135:C:N3	2.68	0.61
34:BA:1323:G:H4'	34:BA:1362:C:C4	2.35	0.61
34:BA:1405:G:O4'	34:BA:1519:A:H4'	2.00	0.61
34:BA:1531:A:N3	34:BA:1532:U:N3	2.48	0.61
34:BA:197:A:O2'	34:BA:198:G:H8	1.82	0.61
34:BA:388:G:O2'	34:BA:389:A:OP2	2.14	0.61
34:BA:422:C:H6	34:BA:422:C:O5'	1.84	0.61
34:BA:452:A:N6	34:BA:480:U:H3	1.99	0.61
34:BA:562:C:H5''	34:BA:563:A:OP1	2.00	0.61
34:BA:643:C:N3	34:BA:644:G:C8	2.69	0.61
34:BA:665:A:OP2	34:BA:666:G:OP1	2.18	0.61
34:BA:755:G:H2'	34:BA:756:C:C5	2.35	0.61
34:BA:97:G:C6	34:BA:98:U:C4	2.88	0.61
35:BB:67:A:N3	35:BB:68:U:C5	2.67	0.61
35:BB:69:U:H2'	35:BB:70:C:C6	2.36	0.61
38:BF:57:ILE:HG23	38:BF:66:VAL:CG2	2.31	0.61
39:BG:127:THR:HB	39:BG:147:ALA:HB3	1.82	0.61
39:BG:78:LEU:O	39:BG:81:GLU:N	2.34	0.61
41:BI:14:LEU:HD13	41:BI:18:GLN:CB	2.30	0.61
41:BI:37:VAL:CA	41:BI:65:VAL:HG12	2.18	0.61
34:BA:1373:G:C1'	42:BJ:34:GLY:HA2	2.30	0.61
45:BM:38:ILE:CG1	45:BM:71:LEU:HB3	2.30	0.61
46:BN:48:ILE:O	46:BN:50:TYR:N	2.33	0.61
47:BO:82:VAL:N	47:BO:106:ASP:OD1	2.33	0.61
48:BP:8:GLU:CD	48:BP:22:ILE:HG12	2.20	0.61
48:BP:78:ILE:O	48:BP:81:LEU:HD22	2.01	0.61
49:BQ:45:ARG:O	49:BQ:49:HIS:CD2	2.54	0.61
52:BT:18:THR:O	52:BT:19:VAL:HG13	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:43:G:H8	35:BB:43:G:H5''	1.64	0.61
10:AK:89:LEU:HD11	10:AK:124:LEU:CD1	2.30	0.61
2:AA:1482:U:O2'	2:AA:1512:G:N2	2.34	0.61
47:BO:126:LYS:O	47:BO:127:GLU:HG3	2.01	0.61
10:AK:66:LYS:CA	10:AK:69:LYS:HB3	2.31	0.61
25:A1:74:MET:HE3	25:A1:75:ASN:H	1.63	0.61
2:AA:1029:A:C8	2:AA:1029:A:O5'	2.54	0.61
2:AA:112:U:H6	2:AA:112:U:C5'	2.08	0.61
2:AA:1152:C:H2'	2:AA:1153:C:H5'	1.82	0.61
2:AA:1326:U:O2'	2:AA:1327:C:H5'	2.01	0.61
2:AA:1327:C:H2'	2:AA:1328:G:H8	1.64	0.61
2:AA:1368:G:OP1	31:A7:25:LYS:NZ	2.34	0.61
2:AA:1397:U:O2'	2:AA:1398:C:OP1	2.15	0.61
2:AA:142(A):A:H5''	2:AA:1143:A:OP2	1.99	0.61
2:AA:152:G:O6	2:AA:175:G:O6	2.19	0.61
2:AA:179:G:C5	2:AA:180:G:C5	2.89	0.61
2:AA:1920:C:OP1	34:BA:1517:G:O4'	2.19	0.61
2:AA:1905:C:C4	2:AA:1930:G:N2	2.69	0.61
2:AA:1988:C:H2'	2:AA:1989:G:C5'	2.30	0.61
2:AA:2008:C:C4	2:AA:2009:G:N7	2.68	0.61
2:AA:2085:C:O2'	2:AA:2086:U:H5'	2.00	0.61
2:AA:2117:A:OP1	2:AA:2117:A:H4'	1.99	0.61
2:AA:2137:C:C5	2:AA:2154:G:N2	2.65	0.61
2:AA:2208:U:O2'	2:AA:2209:C:H5'	2.00	0.61
2:AA:2291:U:C5'	2:AA:2380:C:O2	2.48	0.61
2:AA:2305:A:H2	7:AG:72:LYS:CE	2.13	0.61
2:AA:2423:U:C2'	2:AA:2423:U:O2	2.47	0.61
2:AA:2488:A:H2'	2:AA:2489:G:O5'	1.99	0.61
2:AA:1129:A:O2'	2:AA:2515:C:C2'	2.49	0.61
2:AA:1669:A:O3'	2:AA:2550:G:OP1	2.19	0.61
2:AA:2547:U:C6	2:AA:2566:A:C6	2.89	0.61
2:AA:2595:G:C2	2:AA:2599:G:O6	2.54	0.61
2:AA:2709:G:C2'	2:AA:2710:C:H5'	2.30	0.61
2:AA:273(C):C:N3	2:AA:273(D):C:N4	2.49	0.61
2:AA:2797:U:H4'	2:AA:2797:U:OP1	2.00	0.61
2:AA:2807:G:H2'	2:AA:2808:U:C5	2.35	0.61
2:AA:2877:G:C2	2:AA:2878:U:N3	2.68	0.61
2:AA:2889:C:H2'	2:AA:2891:G:O4'	1.99	0.61
2:AA:414:C:H4'	2:AA:1863:G:H22	1.64	0.61
2:AA:531:C:H42	25:A1:38:THR:HB	1.66	0.61
2:AA:558:G:O2'	2:AA:559:G:H5'	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:564:C:O2'	2:AA:1252:G:N1	2.32	0.61
2:AA:609:A:C8	2:AA:609(A):G:N7	2.69	0.61
2:AA:865:C:N4	2:AA:908:C:N4	2.49	0.61
1:AB:80:U:O2'	2:AA:918:A:H2'	2.00	0.61
1:AB:41:U:OP1	1:AB:42:C:C5	2.53	0.61
3:AC:103:ILE:HA	3:AC:107:TRP:O	2.01	0.61
3:AC:22:ILE:HG23	3:AC:189:ILE:HG21	1.82	0.61
3:AC:42:GLU:OE1	3:AC:172:HIS:HD2	1.84	0.61
5:AE:221:LYS:HE2	5:AE:233:ARG:HA	1.83	0.61
2:AA:2679:A:H5''	5:AE:261:ARG:HD3	1.81	0.61
5:AE:267:ARG:HB2	5:AE:297:LYS:CE	2.31	0.61
5:AE:44:TYR:CA	5:AE:309:PRO:HD2	2.22	0.61
5:AE:83:LEU:HD13	5:AE:178:LEU:CD2	2.30	0.61
9:AI:61:VAL:HG21	9:AI:114:ILE:HB	1.83	0.61
9:AI:26:GLU:O	9:AI:30:GLY:N	2.34	0.61
10:AK:3:VAL:CG1	10:AK:19:LYS:H	2.13	0.61
11:AL:69:ILE:HB	11:AL:71:LYS:HE3	1.81	0.61
12:AM:105:LEU:H	12:AM:105:LEU:HD23	1.63	0.61
13:AN:3:GLN:O	13:AN:4:GLN:C	2.35	0.61
13:AN:7:ARG:NE	13:AN:44:LYS:CD	2.63	0.61
13:AN:99:PHE:CE2	17:AR:24:LYS:HE2	2.36	0.61
15:AP:41:THR:HG21	15:AP:127:ASN:N	2.15	0.61
15:AP:72:VAL:HG21	15:AP:83:PHE:CZ	2.36	0.61
15:AP:84:ARG:HH22	15:AP:86:ARG:HH21	1.43	0.61
2:AA:2320:A:C6	16:AQ:13:ARG:HG2	2.35	0.61
16:AQ:83:LEU:HA	16:AQ:86:LEU:HG	1.82	0.61
17:AR:21:PHE:HB2	17:AR:31:PHE:HD1	1.61	0.61
18:AS:80:PRO:HG2	18:AS:100:THR:OG1	2.01	0.61
18:AS:23:LEU:HD12	29:A5:25:LEU:CB	2.14	0.61
19:AT:72:ASP:HB2	19:AT:75:GLN:NE2	2.15	0.61
21:AV:15:ASP:C	21:AV:36:ARG:NH2	2.50	0.61
21:AV:116:VAL:HG23	21:AV:169:VAL:CG2	2.31	0.61
21:AV:90:GLU:O	21:AV:92:VAL:HG23	2.01	0.61
23:AX:22:ALA:CA	23:AX:46:ASN:ND2	2.58	0.61
34:BA:1008:C:H42	34:BA:1021:G:H1	1.47	0.61
34:BA:1048:G:H5''	49:BQ:3:ARG:HD3	1.83	0.61
34:BA:1202:G:N2	34:BA:1203:C:C1'	2.63	0.61
34:BA:1411:C:H2'	34:BA:1412:C:H6	1.64	0.61
34:BA:1425:U:O2'	34:BA:1426:C:C5'	2.49	0.61
34:BA:1510:U:H2'	34:BA:1511:G:C8	2.36	0.61
34:BA:144:G:N3	34:BA:179:A:C2	2.69	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:188:C:H2'	34:BA:189:G:C5'	2.30	0.61
34:BA:184:G:H5'	34:BA:224:C:H4'	1.83	0.61
34:BA:295:C:O2'	34:BA:296:U:C5'	2.48	0.61
34:BA:432:A:N7	34:BA:433:C:C5	2.69	0.61
34:BA:494:G:O2'	34:BA:495:U:C5	2.49	0.61
34:BA:671:G:C4	34:BA:672:U:C5	2.89	0.61
34:BA:752:G:H8	34:BA:752:G:OP2	1.83	0.61
34:BA:769:G:N1	34:BA:811:C:O2	2.34	0.61
34:BA:922:G:H5''	40:BH:20:GLN:NE2	2.15	0.61
37:BE:71:VAL:CG1	37:BE:72:GLY:N	2.64	0.61
39:BG:173:TRP:CH2	39:BG:194:LEU:HD11	2.35	0.61
39:BG:63:LYS:O	39:BG:67:ILE:HG13	2.01	0.61
34:BA:19:C:H5''	40:BH:86:ALA:HB1	1.83	0.61
42:BJ:15:ASP:C	42:BJ:17:VAL:H	2.04	0.61
42:BJ:29:LYS:HZ1	42:BJ:102:ARG:HE	1.49	0.61
42:BJ:72:ARG:HG2	42:BJ:72:ARG:NH1	2.15	0.61
44:BL:19:LEU:HD21	44:BL:61:ALA:HB2	1.82	0.61
46:BN:16:SER:O	46:BN:35:PRO:CG	2.47	0.61
46:BN:54:ARG:C	46:BN:56:GLY:H	2.04	0.61
47:BO:77:LEU:O	47:BO:78:GLN:CG	2.48	0.61
48:BP:48:LEU:CD2	48:BP:53:VAL:HG23	2.29	0.61
48:BP:8:GLU:HG3	48:BP:22:ILE:HG12	1.83	0.61
49:BQ:21:TYR:N	49:BQ:21:TYR:CD1	2.69	0.61
49:BQ:36:PHE:CD1	49:BQ:37:PHE:HD2	2.19	0.61
50:BR:39:LEU:HD23	50:BR:40:SER:N	2.16	0.61
50:BR:41:GLU:CA	50:BR:44:LYS:HZ1	2.12	0.61
51:BS:58:TYR:O	51:BS:61:SER:OG	2.19	0.61
34:BA:255:G:H1'	52:BT:16:GLN:NE2	2.15	0.61
54:BV:5:LEU:HD12	54:BV:9:VAL:CB	2.31	0.61
55:BW:66:ALA:CB	55:BW:72:LEU:HB2	2.30	0.61
55:BW:75:ASN:ND2	55:BW:75:ASN:N	2.48	0.61
10:AK:94:THR:O	10:AK:97:GLN:N	2.34	0.61
2:AA:1510:A:N7	2:AA:1511:A:N1	2.49	0.61
6:AF:62:GLY:N	6:AF:65:ARG:NH2	2.48	0.61
24:A0:45:ARG:O	24:A0:46:GLY:C	2.38	0.61
25:A1:106:PHE:O	25:A1:109:LEU:N	2.33	0.61
26:A2:77:GLY:O	26:A2:78:VAL:HG13	2.01	0.61
27:A3:35:ASN:O	27:A3:36:ILE:HG12	2.00	0.61
27:A3:69:PHE:O	27:A3:70:ILE:HG23	2.01	0.61
32:A8:6:THR:C	32:A8:8:LYS:N	2.51	0.61
2:AA:1081:U:H1'	11:AL:117:ASN:HD22	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1087:G:H2'	2:AA:1103:A:C2	2.36	0.61
2:AA:1358:G:N1	2:AA:1372:U:OP2	2.32	0.61
2:AA:1461:G:H8	2:AA:1461:G:P	2.24	0.61
2:AA:1473:G:C4	2:AA:1474:C:C6	2.89	0.61
2:AA:154:G:N3	2:AA:155:C:H1'	2.16	0.61
2:AA:1605:C:H4'	2:AA:1610:A:H62	1.66	0.61
2:AA:1770:G:C6	2:AA:1983:C:N3	2.68	0.61
2:AA:1869:G:C2	2:AA:1878:G:O6	2.54	0.61
2:AA:2012:G:H5'	18:AS:98:LYS:NZ	2.16	0.61
2:AA:2020:A:N6	2:AA:2022:U:C2	2.69	0.61
2:AA:2055:C:C4'	2:AA:2056:G:H5''	2.29	0.61
2:AA:2124:G:OP2	3:AC:129:ARG:HA	2.01	0.61
2:AA:2135:A:C3'	2:AA:2135:A:N3	2.55	0.61
2:AA:240:G:C5	2:AA:241:A:C6	2.89	0.61
2:AA:2476:A:C8	2:AA:2477:C:C6	2.89	0.61
2:AA:2507:C:N4	2:AA:2582:G:C6	2.69	0.61
2:AA:2556:C:N4	2:AA:2557:G:C2	2.68	0.61
2:AA:2591:C:O2'	2:AA:2592:G:H5'	2.01	0.61
2:AA:261:G:O2'	2:AA:262:A:H5'	2.00	0.61
2:AA:262:A:C2	2:AA:430:G:H1'	2.36	0.61
2:AA:2694:G:O6	2:AA:2695:C:N4	2.34	0.61
2:AA:2702:U:OP1	2:AA:2702:U:O4'	2.18	0.61
2:AA:286:C:H3'	2:AA:286:C:C6	2.36	0.61
2:AA:324:A:N7	2:AA:340:A:H1'	2.16	0.61
2:AA:351:G:OP1	2:AA:351:G:O4'	2.18	0.61
2:AA:478:A:N6	2:AA:480:A:C6	2.68	0.61
2:AA:585:G:N1	2:AA:1251:C:H5	1.98	0.61
2:AA:674:G:H4'	6:AF:69:HIS:CA	2.31	0.61
2:AA:695:G:C6	2:AA:768:G:O6	2.54	0.61
2:AA:737:C:N4	2:AA:759:G:N1	2.48	0.61
2:AA:771:G:C6	2:AA:772:C:C4	2.89	0.61
2:AA:808:G:C2'	2:AA:809:G:O5'	2.49	0.61
3:AC:75:LEU:HD13	3:AC:107:TRP:CH2	2.36	0.61
4:AD:129:LEU:HD22	4:AD:133:ASN:HB2	1.82	0.61
2:AA:2619:C:H4'	5:AE:246:VAL:HG12	1.82	0.61
2:AA:2635:C:H1'	5:AE:98:GLU:OE2	2.01	0.61
6:AF:163:HIS:HA	6:AF:166:ILE:CD1	2.30	0.61
6:AF:215:ALA:HB1	6:AF:238:SER:O	2.01	0.61
7:AG:144:ARG:O	7:AG:148:SER:HB3	2.00	0.61
7:AG:18:ILE:HG21	7:AG:77:ASP:CA	2.28	0.61
7:AG:55:LYS:O	7:AG:56:ARG:HG2	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:90:GLY:O	8:AH:92:GLY:N	2.33	0.61
2:AA:1055:G:H21	9:AI:29:PHE:HE1	1.47	0.61
9:AJ:80:ILE:HG23	9:AJ:103:LYS:CD	2.22	0.61
9:AJ:85:LEU:HD12	11:AL:57:VAL:CG1	2.31	0.61
9:AJ:71:ILE:HA	11:AL:61:TYR:CB	2.30	0.61
12:AM:74:ARG:HB3	12:AM:76:ASP:OD2	2.00	0.61
12:AM:96:GLU:HA	12:AM:99:GLU:OE2	2.00	0.61
15:AP:136:TRP:O	15:AP:139:ALA:N	2.34	0.61
15:AP:139:ALA:C	15:AP:142:LYS:HB3	2.21	0.61
16:AQ:33:ARG:HG3	16:AQ:48:VAL:HB	1.83	0.61
18:AS:36:LEU:HD11	18:AS:47:VAL:HG12	1.83	0.61
21:AV:51:LEU:HG	21:AV:64:ALA:O	2.01	0.61
22:AW:29:ASN:O	22:AW:30:ALA:C	2.39	0.61
22:AW:43:PRO:CD	22:AW:46:ILE:HG12	2.31	0.61
34:BA:934:C:N4	34:BA:1344:C:N3	2.49	0.61
34:BA:1368:G:P	44:BL:113:LYS:HA	2.40	0.61
2:AA:1920:C:OP1	34:BA:1517:G:C8	2.54	0.61
34:BA:390:C:C2'	34:BA:391:G:O5'	2.49	0.61
34:BA:83:U:H2'	34:BA:84:U:O4'	2.01	0.61
34:BA:932:C:C5'	42:BJ:3:ARG:HB3	2.30	0.61
35:BB:52:U:C2'	35:BB:53:G:H5'	2.31	0.61
35:BC:18:G:H2'	35:BC:19:G:O5'	2.00	0.61
35:BC:53:G:C6	35:BC:62:A:N6	2.69	0.61
35:BC:9:A:H2	35:BC:45:G:C8	2.18	0.61
37:BE:21:ARG:O	37:BE:23:ARG:HD3	2.01	0.61
37:BE:219:VAL:CA	37:BE:222:ILE:HG23	2.31	0.61
34:BA:829:G:C4'	37:BE:26:PRO:HG2	2.28	0.61
38:BF:138:VAL:O	38:BF:170:GLN:NE2	2.33	0.61
38:BF:7:PRO:HG3	38:BF:184:TYR:CG	2.35	0.61
38:BF:54:ARG:NH2	38:BF:56:ASP:OD1	2.34	0.61
34:BA:1190:G:P	38:BF:5:ILE:HG13	2.40	0.61
39:BG:102:ASP:OD2	39:BG:118:ARG:HB2	2.01	0.61
39:BG:141:ARG:CB	39:BG:142:PRO:CD	2.77	0.61
39:BG:173:TRP:CE2	39:BG:189:PRO:HB3	2.35	0.61
44:BL:67:GLY:O	44:BL:68:GLY:C	2.39	0.61
47:BO:115:LYS:O	47:BO:116:SER:C	2.38	0.61
47:BO:46:LYS:HG2	47:BO:47:LYS:N	2.11	0.61
47:BO:82:VAL:HG12	47:BO:83:VAL:N	2.13	0.61
48:BP:16:ASP:HA	48:BP:19:LEU:CD1	2.30	0.61
50:BR:15:PHE:HZ	50:BR:85:LEU:HD21	1.64	0.61
34:BA:392:G:P	51:BS:8:ARG:NH2	2.74	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:59:ILE:CD1	52:BT:73:VAL:HA	2.31	0.61
34:BA:986:A:H1'	54:BV:54:GLY:O	2.00	0.61
10:AK:83:ALA:HA	10:AK:90:PHE:CE1	2.36	0.61
37:BE:130:ARG:CB	37:BE:131:PRO:HD2	2.29	0.61
24:A0:114:VAL:HG12	24:A0:115:GLU:N	2.15	0.61
25:A1:103:PRO:HG2	25:A1:104:GLU:H	1.65	0.61
26:A2:67:LYS:HB2	26:A2:92:ALA:O	2.00	0.61
28:A4:20:VAL:O	28:A4:20:VAL:CG1	2.49	0.61
18:AS:19:LEU:HB3	29:A5:25:LEU:HG	1.83	0.61
32:A8:7:HIS:O	32:A8:11:LYS:HG3	2.01	0.61
2:AA:1070:A:N6	2:AA:1096:A:C2	2.66	0.61
2:AA:1176:G:OP1	2:AA:1176:G:H4'	2.01	0.61
2:AA:1213:A:N6	2:AA:1236:G:H1'	2.15	0.61
2:AA:1381:G:C6	2:AA:1382:G:C6	2.89	0.61
2:AA:1424:G:H2'	2:AA:1424:G:N3	2.14	0.61
2:AA:1453:A:N7	2:AA:1454:U:C6	2.69	0.61
2:AA:1351:C:O2'	2:AA:1571:A:C1'	2.48	0.61
2:AA:1576:U:H2'	2:AA:1577:C:H1'	1.82	0.61
2:AA:1324:G:H1'	2:AA:1616:A:H61	1.66	0.61
2:AA:1666:G:OP1	13:AN:66:LYS:HE2	2.01	0.61
2:AA:1881:C:O2'	2:AA:1882:C:H5'	2.01	0.61
2:AA:1909:C:C2'	2:AA:1910:G:H5'	2.31	0.61
2:AA:1914:C:O2	2:AA:1914:C:H2'	2.00	0.61
2:AA:2026:C:C2	2:AA:2027:G:C8	2.89	0.61
2:AA:221:A:O2'	2:AA:222:A:OP2	2.18	0.61
2:AA:2287:A:HO2'	2:AA:2288:A:P	2.24	0.61
2:AA:2436:G:H2'	2:AA:2437:U:O5'	2.01	0.61
2:AA:2468:G:H8	2:AA:2468:G:O5'	1.82	0.61
2:AA:2551:C:H2'	2:AA:2552:U:H6	1.66	0.61
2:AA:2567:G:C2	2:AA:2568:C:C5	2.88	0.61
2:AA:2639:A:C2	2:AA:2640:G:H1'	2.36	0.61
2:AA:2674:G:C2'	2:AA:2675:A:H8	2.01	0.61
2:AA:2697:G:O2'	2:AA:2698:U:C5'	2.48	0.61
2:AA:341:G:O2'	2:AA:342:G:H5'	2.00	0.61
2:AA:285:C:N3	2:AA:355:G:C6	2.69	0.61
2:AA:284:U:O2	2:AA:357:A:N1	2.33	0.61
2:AA:473:G:C2'	2:AA:474:G:H5'	2.31	0.61
2:AA:616:A:H2'	2:AA:617:G:C2	2.36	0.61
2:AA:665:C:C2	2:AA:666:G:N7	2.68	0.61
2:AA:685:A:C4	2:AA:774:A:C6	2.89	0.61
2:AA:705:A:OP2	2:AA:725:G:N2	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:800:A:O2'	2:AA:801:G:O5'	2.17	0.61
2:AA:848:G:H2'	2:AA:849:A:H8	1.63	0.61
2:AA:960:A:C2	2:AA:962:G:O4'	2.54	0.61
3:AC:131:LEU:HB3	3:AC:136:LEU:O	2.00	0.61
3:AC:123:VAL:O	3:AC:137:LEU:CD2	2.49	0.61
3:AC:68:LEU:HD23	3:AC:72:VAL:HG21	1.82	0.61
4:AD:140:VAL:CB	4:AD:191:VAL:HG12	2.31	0.61
5:AE:238:LEU:N	5:AE:238:LEU:HD22	2.13	0.61
5:AE:240:PRO:HB2	5:AE:243:PRO:CG	2.31	0.61
6:AF:197:SER:HB2	6:AF:239:ALA:N	2.15	0.61
7:AG:56:ARG:HH11	7:AG:56:ARG:HB3	1.62	0.61
8:AH:153:PRO:HB3	8:AH:161:ILE:O	2.01	0.61
2:AA:1058:G:N3	9:AI:3:ILE:CD1	2.60	0.61
9:AI:18:LEU:CD1	9:AI:44:VAL:HG12	2.31	0.61
9:AI:26:GLU:OE1	9:AJ:43:PRO:HG3	2.01	0.61
10:AK:5:PHE:CE1	10:AK:16:GLY:N	2.69	0.61
12:AM:104:TYR:O	12:AM:105:LEU:C	2.38	0.61
12:AM:15:ARG:HG2	12:AM:43:ARG:CB	2.20	0.61
15:AP:140:TYR:O	15:AP:143:VAL:HG22	2.00	0.61
16:AQ:12:ARG:CZ	16:AQ:20:TYR:CE2	2.84	0.61
18:AS:97:LYS:HB2	18:AS:99:ARG:HD3	1.83	0.61
19:AT:57:THR:O	19:AT:59:ASP:OD1	2.18	0.61
20:AU:33:GLU:HG2	20:AU:34:GLU:N	2.16	0.61
20:AU:87:VAL:CG1	20:AU:88:PRO:HD2	2.30	0.61
20:AU:48:VAL:CG1	20:AU:97:ARG:O	2.43	0.61
21:AV:36:ARG:HA	21:AV:39:PHE:CD1	2.36	0.61
21:AV:38:ALA:O	21:AV:39:PHE:C	2.39	0.61
21:AV:41:ARG:N	21:AV:41:ARG:HE	1.99	0.61
36:B1:69:A:H3'	36:B1:69:A:N3	2.16	0.61
34:BA:1000:U:C4	34:BA:1041:A:N1	2.69	0.61
34:BA:110:C:O2'	34:BA:111:G:H5'	2.01	0.61
34:BA:1199:U:H4'	45:BM:54:PHE:CE2	2.35	0.61
34:BA:132:C:O2'	34:BA:133:U:O5'	2.19	0.61
34:BA:1345:U:C2	34:BA:1377:A:C6	2.89	0.61
34:BA:1378:C:N3	34:BA:1379:G:H1'	2.15	0.61
34:BA:1406:U:C2	34:BA:1407:C:C6	2.89	0.61
34:BA:1471:G:H2'	34:BA:1472:U:C6	2.36	0.61
34:BA:376:G:OP1	51:BS:6:LEU:CD1	2.49	0.61
34:BA:410:G:C4	34:BA:432:A:N6	2.69	0.61
34:BA:484:G:O4'	34:BA:486:U:C6	2.54	0.61
34:BA:490:G:H2'	34:BA:491:G:C8	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:517:G:H5'	34:BA:519:C:N4	2.16	0.61
34:BA:547:A:C4'	34:BA:548:G:O5'	2.42	0.61
34:BA:706:A:C2	34:BA:707:C:C6	2.89	0.61
35:BC:5:A:C2'	35:BC:6:U:O5'	2.49	0.61
35:BC:73:A:H2'	35:BC:74:C:OP1	2.00	0.61
37:BE:163:PHE:CB	37:BE:185:ILE:HD12	2.31	0.61
37:BE:72:GLY:HA2	37:BE:165:VAL:HG22	1.83	0.61
39:BG:119:GLN:HG2	39:BG:123:HIS:CD2	2.36	0.61
39:BG:101:LEU:HD22	39:BG:138:TYR:HB3	1.82	0.61
39:BG:159:ARG:O	39:BG:163:GLU:CB	2.48	0.61
39:BG:107:ARG:HB3	39:BG:174:LEU:CD1	2.31	0.61
39:BG:204:ILE:HD12	39:BG:204:ILE:H	1.66	0.61
39:BG:20:TYR:HA	39:BG:26:CYS:O	2.00	0.61
39:BG:96:LEU:HD12	39:BG:96:LEU:H	1.66	0.61
41:BI:82:ARG:C	41:BI:85:VAL:HG23	2.20	0.61
41:BI:8:ILE:HG23	41:BI:88:VAL:HA	1.81	0.61
44:BL:110:GLU:CD	44:BL:111:ARG:H	2.04	0.61
46:BN:50:TYR:CG	46:BN:54:ARG:CB	2.84	0.61
47:BO:46:LYS:HG2	47:BO:47:LYS:HG3	1.83	0.61
47:BO:6:THR:HG1	47:BO:9:GLN:HG3	1.65	0.61
49:BQ:13:THR:C	49:BQ:15:LYS:H	2.04	0.61
34:BA:995:C:H2'	49:BQ:4:LYS:HZ3	1.65	0.61
34:BA:1314:C:OP2	54:BV:6:LYS:HG2	2.00	0.61
55:BW:73:HIS:O	55:BW:74:LYS:C	2.38	0.61
10:AK:66:LYS:C	10:AK:69:LYS:HB3	2.21	0.61
2:AA:1:G:N2	2:AA:2902:C:N3	2.40	0.61
45:BM:44:VAL:CG1	45:BM:46:ARG:HE	2.12	0.61
24:A0:30:THR:HB	24:A0:31:HIS:CE1	2.35	0.60
25:A1:53:LYS:HA	25:A1:56:ASP:OD2	2.01	0.60
26:A2:12:TYR:CE1	26:A2:14:VAL:HB	2.35	0.60
27:A3:47:ALA:HB2	27:A3:73:GLY:O	2.01	0.60
29:A5:41:LEU:O	29:A5:42:SER:C	2.39	0.60
32:A8:19:THR:HB	32:A8:21:LYS:HZ2	1.64	0.60
2:AA:1025:G:H8	2:AA:1134:G:H1'	1.64	0.60
2:AA:1065:U:H3'	2:AA:1066:U:C5'	2.27	0.60
2:AA:1061:U:O4'	2:AA:1070:A:H1'	2.00	0.60
2:AA:1000:A:H8	2:AA:1154:G:N2	1.99	0.60
2:AA:840:C:C5'	2:AA:1192:G:H1'	2.30	0.60
2:AA:1212:G:C2	2:AA:1236:G:C6	2.88	0.60
2:AA:1286:A:C2	2:AA:1329:U:C2	2.89	0.60
2:AA:1403:C:H5'	2:AA:1471:A:H5'	1.80	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1442:G:H1	2:AA:1549:C:H42	0.73	0.60
2:AA:1352:U:O2'	2:AA:1570:A:H2'	2.00	0.60
2:AA:1576:U:H5	2:AA:1577:C:N3	1.98	0.60
2:AA:1775:U:H3'	2:AA:1775:U:P	2.41	0.60
2:AA:1788:C:C2	2:AA:1789:A:C8	2.89	0.60
2:AA:1800:C:O2'	2:AA:1802:A:O4'	2.18	0.60
2:AA:1805:U:H2'	2:AA:1806:C:C6	2.35	0.60
2:AA:1835:G:O2'	2:AA:1836:C:H5'	2.00	0.60
2:AA:184:C:HO2'	2:AA:217:G:N2	1.98	0.60
2:AA:1881:C:C5'	2:AA:1881:C:H6	2.14	0.60
2:AA:1943:U:C2	2:AA:1945:G:O4'	2.54	0.60
2:AA:1970:A:O2'	2:AA:1971:A:H5'	2.01	0.60
2:AA:2134:A:C2	2:AA:2152:G:OP2	2.54	0.60
2:AA:2322:A:OP1	2:AA:2322:A:O4'	2.19	0.60
2:AA:2355:C:C5	2:AA:2356:C:N4	2.69	0.60
2:AA:197:A:H61	2:AA:248:G:N2	1.94	0.60
2:AA:2519:U:C4	2:AA:2542:A:C8	2.89	0.60
2:AA:2742:C:O2'	2:AA:2743:C:H5'	2.01	0.60
2:AA:2748:A:N6	2:AA:2757:A:N7	2.49	0.60
2:AA:288:C:P	2:AA:289:A:OP2	2.58	0.60
2:AA:285:C:C2	2:AA:356:G:N2	2.69	0.60
2:AA:422:A:N1	2:AA:423:A:N3	2.49	0.60
2:AA:476:G:H4'	2:AA:505:A:C2	2.36	0.60
2:AA:563:G:H21	25:A1:37:GLN:CD	2.03	0.60
2:AA:58:G:C4	2:AA:73:A:N1	2.69	0.60
2:AA:776:G:C6	2:AA:793:A:C8	2.89	0.60
2:AA:774:A:C5'	2:AA:778:G:C4'	2.77	0.60
2:AA:919:G:N3	2:AA:920:G:C8	2.69	0.60
2:AA:956:G:H2'	2:AA:957:A:C5'	2.31	0.60
1:AB:99:A:O2'	1:AB:100:G:H5'	2.01	0.60
3:AC:144:THR:HA	3:AC:152:ILE:CG2	2.25	0.60
3:AC:145:VAL:N	3:AC:152:ILE:HD13	2.16	0.60
4:AD:105:ALA:O	4:AD:106:PRO:C	2.39	0.60
2:AA:2218:G:H4'	4:AD:184:LEU:CD1	2.31	0.60
4:AD:208:GLY:CA	4:AD:210:LYS:NZ	2.63	0.60
5:AE:193:PHE:HE2	5:AE:199:ALA:HB1	1.65	0.60
5:AE:87:GLU:OE1	5:AE:96:LEU:HB2	2.00	0.60
9:AJ:106:VAL:HG11	9:AJ:114:ILE:CD1	2.31	0.60
9:AJ:112:GLU:HA	9:AJ:115:LYS:HD2	1.83	0.60
9:AJ:73:VAL:HG22	9:AJ:122:GLY:N	2.16	0.60
12:AM:44:ALA:CA	12:AM:132:LEU:HB2	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:18:ILE:O	12:AM:18:ILE:CG2	2.49	0.60
13:AN:106:LEU:O	13:AN:107:ARG:C	2.36	0.60
13:AN:41:ALA:O	13:AN:42:THR:CG2	2.48	0.60
13:AN:73:ASP:O	13:AN:74:GLY:C	2.40	0.60
15:AP:94:ARG:CZ	15:AP:105:PHE:O	2.49	0.60
15:AP:54:VAL:HG13	15:AP:56:ILE:HD13	1.81	0.60
1:AB:49:C:OP1	16:AQ:111:PRO:HD2	2.00	0.60
16:AQ:33:ARG:HB3	16:AQ:35:VAL:HG22	1.82	0.60
17:AR:47:ARG:C	17:AR:48:ASN:OD1	2.40	0.60
17:AR:6:CYS:O	17:AR:7:ASP:CG	2.39	0.60
18:AS:13:SER:OG	18:AS:16:LYS:N	2.34	0.60
20:AU:102:ASP:HB3	20:AU:108:ARG:CZ	2.31	0.60
20:AU:55:PHE:CZ	20:AU:89:ARG:CZ	2.84	0.60
21:AV:6:LYS:CE	21:AV:30:VAL:HG11	2.30	0.60
21:AV:3:LEU:HD22	21:AV:34:LEU:CB	2.29	0.60
21:AV:75:LYS:O	21:AV:76:ARG:HB2	2.00	0.60
22:AW:28:LEU:O	22:AW:31:ARG:HB2	2.00	0.60
34:BA:1016:A:H8	34:BA:1016:A:O5'	1.84	0.60
34:BA:1189:C:OP1	38:BF:5:ILE:CG2	2.40	0.60
34:BA:1150:U:H4'	34:BA:1280:A:C2	2.35	0.60
34:BA:1337:G:H5''	34:BA:1338:G:OP1	2.00	0.60
34:BA:1368:G:O2'	34:BA:1369:C:H5'	2.01	0.60
34:BA:1378:C:N3	34:BA:1379:G:C1'	2.64	0.60
34:BA:1427:U:O2'	34:BA:1428:A:H5'	2.01	0.60
34:BA:1498:U:O2'	34:BA:1499:A:C5'	2.49	0.60
34:BA:1528:U:H2'	34:BA:1530:G:H5'	1.82	0.60
34:BA:198:G:O2'	34:BA:199:G:H5'	2.00	0.60
34:BA:217:C:H2'	34:BA:218:C:H6	1.66	0.60
34:BA:237:C:H2'	34:BA:238:G:H8	1.66	0.60
34:BA:272:C:H2'	34:BA:273:A:C8	2.34	0.60
34:BA:299:G:C2'	34:BA:300:A:C8	2.83	0.60
34:BA:59:A:H1'	34:BA:388:G:H5''	1.83	0.60
34:BA:448:A:O2'	34:BA:449:C:H5'	2.00	0.60
34:BA:475:G:C2'	34:BA:476:G:H8	2.13	0.60
34:BA:55:A:N6	34:BA:357:G:H1'	2.16	0.60
34:BA:859:A:N6	34:BA:860:A:C2	2.69	0.60
34:BA:900:A:C2'	34:BA:901:A:O5'	2.48	0.60
34:BA:941:G:H1	34:BA:1342:C:N4	1.96	0.60
2:AA:1923:U:P	35:BC:25:C:H4'	2.40	0.60
35:BC:71:G:C2'	35:BC:72:C:H5'	2.30	0.60
37:BE:114:ARG:HD2	37:BE:141:GLU:OE1	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:144:ARG:CD	37:BE:148:TYR:OH	2.49	0.60
37:BE:91:PRO:HG3	37:BE:154:LEU:CB	2.31	0.60
38:BF:48:TYR:HA	38:BF:52:LEU:HD21	1.82	0.60
34:BA:404:U:P	39:BG:118:ARG:NH1	2.74	0.60
41:BI:79:LEU:C	41:BI:81:ILE:N	2.53	0.60
34:BA:642:A:C2	43:BK:113:SER:O	2.54	0.60
46:BN:102:GLY:O	46:BN:103:LEU:O	2.19	0.60
47:BO:85:ILE:HG13	47:BO:99:HIS:O	2.01	0.60
54:BV:79:THR:O	54:BV:79:THR:HG22	2.00	0.60
1:AB:14:U:O2'	1:AB:107:U:H4'	2.01	0.60
25:A1:13:ARG:NH1	25:A1:13:ARG:CB	2.50	0.60
25:A1:7:GLY:C	25:A1:9:VAL:N	2.51	0.60
28:A4:4:ASP:HB3	28:A4:5:LEU:HD23	1.82	0.60
29:A5:21:SER:O	29:A5:22:HIS:C	2.36	0.60
30:A6:16:ALA:CB	30:A6:19:GLY:H	2.13	0.60
2:AA:1007:C:O4'	12:AM:86:MET:O	2.19	0.60
2:AA:1091:G:C2	2:AA:1101:U:C2	2.90	0.60
2:AA:1021:A:N3	2:AA:1123:C:P	2.74	0.60
2:AA:112:U:C6	2:AA:112:U:C5'	2.82	0.60
2:AA:142(A):A:C4	2:AA:1143:A:C8	2.89	0.60
2:AA:1165:U:O2'	2:AA:1166:C:C6	2.52	0.60
2:AA:10:G:H2'	2:AA:11:G:C8	2.35	0.60
2:AA:122:G:C6	2:AA:130:C:C4	2.88	0.60
2:AA:1422:G:N1	2:AA:1576:U:C2	2.67	0.60
2:AA:1462:C:H5'	2:AA:1463:C:OP2	2.00	0.60
2:AA:1466:G:O2'	2:AA:1546:C:H4'	2.01	0.60
2:AA:1568:G:H5''	4:AD:60:GLN:CD	2.21	0.60
2:AA:1646:C:H3'	2:AA:1647:G:H5'	1.83	0.60
2:AA:1650:G:H21	2:AA:1651:G:H1'	1.65	0.60
2:AA:1689:A:C6	2:AA:1700:A:N1	2.69	0.60
2:AA:1743:G:C5	2:AA:1746:G:C8	2.88	0.60
2:AA:1773:A:C2'	2:AA:1774:C:H5'	2.32	0.60
2:AA:1785:A:O2'	2:AA:1786:A:H5'	2.01	0.60
2:AA:1796:U:N3	2:AA:1823:G:N1	2.19	0.60
2:AA:1827:C:N3	2:AA:1828:G:H1'	2.16	0.60
2:AA:1887:C:H2'	2:AA:1888:G:O5'	2.01	0.60
2:AA:1979:C:O2	2:AA:1979:C:H2'	2.01	0.60
2:AA:2061:G:C4	2:AA:2063:C:N4	2.69	0.60
2:AA:2287:A:N6	2:AA:2289:G:N3	2.50	0.60
2:AA:2310:A:C2	7:AG:55:LYS:HD3	2.36	0.60
2:AA:2309:A:C5'	2:AA:2310:A:OP2	2.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2354:G:O2'	2:AA:2355:C:H5'	2.01	0.60
2:AA:241:A:H1'	2:AA:243:U:C5	2.36	0.60
2:AA:2466:C:N4	2:AA:2467:C:N4	2.48	0.60
2:AA:2553:G:C8	2:AA:2553:G:C3'	2.78	0.60
2:AA:2584:U:H2'	2:AA:2585:U:H6	1.60	0.60
2:AA:2626:C:C2	2:AA:2627:G:C8	2.89	0.60
2:AA:2719:G:O5'	2:AA:2719:G:C8	2.48	0.60
2:AA:291:C:N4	2:AA:349:G:C2	2.68	0.60
2:AA:342:G:N1	2:AA:344:G:C2	2.69	0.60
2:AA:357:A:H2'	2:AA:358:U:H5''	1.82	0.60
2:AA:506:G:H4'	2:AA:509:C:H1'	1.81	0.60
2:AA:547:A:H4'	2:AA:549:G:C2	2.37	0.60
2:AA:558:G:O2'	2:AA:559:G:C5'	2.49	0.60
2:AA:566:U:C3'	2:AA:567:A:H8	2.11	0.60
2:AA:650:C:H2'	2:AA:650:C:O2	2.01	0.60
2:AA:713:G:N1	2:AA:714:U:C6	2.69	0.60
2:AA:778:G:N2	2:AA:787:U:C2	2.69	0.60
2:AA:782:A:H4'	2:AA:783:A:N7	2.15	0.60
2:AA:856:C:O2'	27:A3:24:LYS:HB2	2.00	0.60
1:AB:99:A:N1	1:AB:100:G:C6	2.70	0.60
1:AB:34:U:O4	1:AB:48:A:N1	2.34	0.60
2:AA:2210:G:N7	4:AD:148:GLY:HA3	2.15	0.60
4:AD:63:ILE:HG22	4:AD:64:ILE:H	1.64	0.60
7:AG:106:PHE:O	7:AG:107:GLY:O	2.19	0.60
8:AH:43:THR:CG2	8:AH:52:THR:CG2	2.78	0.60
9:AJ:62:VAL:CG2	9:AJ:101:VAL:HG22	2.30	0.60
9:AJ:13:LEU:HB3	9:AJ:17:GLU:HB2	1.82	0.60
11:AL:71:LYS:HB3	11:AL:115:ASP:CG	2.22	0.60
13:AN:24:VAL:HG11	13:AN:32:TYR:N	2.15	0.60
20:AU:21:LYS:O	20:AU:24:ARG:HG3	2.01	0.60
20:AU:31:LEU:HD23	20:AU:31:LEU:H	1.66	0.60
20:AU:31:LEU:O	20:AU:34:GLU:CB	2.45	0.60
20:AU:52:ARG:HD2	20:AU:95:ASN:ND2	2.16	0.60
21:AV:40:ASP:HB2	21:AV:41:ARG:HH21	1.66	0.60
21:AV:7:PRO:HG2	21:AV:8:ARG:N	2.12	0.60
22:AW:13:PRO:CA	22:AW:16:ARG:HD2	2.25	0.60
34:BA:1290:G:O3'	42:BJ:37:ASN:OD1	2.19	0.60
34:BA:237:C:OP1	52:BT:40:LYS:CD	2.49	0.60
34:BA:331:G:OP1	34:BA:332:G:H5'	2.02	0.60
34:BA:390:C:H2'	34:BA:391:G:C8	2.35	0.60
34:BA:522:C:C4	34:BA:523:A:N6	2.69	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:598:U:N3	34:BA:599:C:C5	2.69	0.60
34:BA:622:A:H2'	34:BA:623:C:H5'	1.83	0.60
34:BA:684:A:N3	46:BN:39:PRO:CG	2.57	0.60
34:BA:748:C:O2'	34:BA:749:C:H5'	2.01	0.60
34:BA:793:U:H5'	34:BA:794:A:C8	2.35	0.60
34:BA:817:C:O2'	34:BA:818:G:O5'	2.19	0.60
34:BA:757:U:C5'	34:BA:878:G:N2	2.63	0.60
35:BC:7:U:C2	35:BC:67:A:C2	2.89	0.60
35:BC:70:C:C2	35:BC:71:G:C8	2.89	0.60
37:BE:150:SER:CA	37:BE:153:ARG:HB3	2.29	0.60
37:BE:15:VAL:HG11	37:BE:209:ARG:CB	2.31	0.60
37:BE:222:ILE:HG12	37:BE:223:ILE:HG13	1.83	0.60
38:BF:52:LEU:O	38:BF:115:LEU:HD21	2.01	0.60
39:BG:177:ASP:OD2	39:BG:179:GLU:HB2	2.00	0.60
39:BG:9:CYS:SG	39:BG:31:CYS:O	2.59	0.60
40:BH:110:LEU:HA	40:BH:113:ALA:CB	2.31	0.60
41:BI:42:GLU:O	41:BI:44:GLY:N	2.35	0.60
34:BA:737:A:H5'	41:BI:90:VAL:CG1	2.31	0.60
34:BA:1298:C:C2'	42:BJ:114:ARG:NH1	2.64	0.60
43:BK:46:LYS:HE3	43:BK:64:LYS:HG3	1.83	0.60
43:BK:48:TYR:CA	43:BK:61:VAL:HG22	2.31	0.60
43:BK:64:LYS:O	43:BK:79:VAL:HB	2.01	0.60
44:BL:103:THR:HG22	44:BL:105:ASP:N	2.16	0.60
34:BA:1342:C:O2'	44:BL:124:GLN:HA	2.01	0.60
44:BL:12:GLU:N	44:BL:12:GLU:OE2	2.34	0.60
46:BN:12:ARG:NH2	46:BN:39:PRO:O	2.33	0.60
48:BP:8:GLU:CG	48:BP:22:ILE:HG12	2.31	0.60
51:BS:20:VAL:HG11	51:BS:32:TYR:CG	2.36	0.60
51:BS:32:TYR:N	51:BS:32:TYR:CD1	2.66	0.60
52:BT:104:LYS:O	52:BT:105:ALA:CB	2.49	0.60
52:BT:9:VAL:HG13	52:BT:56:VAL:HG22	1.83	0.60
41:BI:46:ARG:HH12	53:BU:37:VAL:CG1	2.14	0.60
46:BN:110:ASP:CA	53:BU:88:LYS:HZ3	2.07	0.60
55:BW:55:ILE:O	55:BW:57:ARG:N	2.34	0.60
56:BX:7:ARG:O	56:BX:8:THR:HG23	2.01	0.60
35:BB:42:G:C5'	35:BB:43:G:OP2	2.25	0.60
10:AK:124:LEU:HD11	10:AK:146:THR:CA	2.31	0.60
35:BB:21:A:C6	35:BB:46:G:N1	2.69	0.60
26:A2:69:ILE:HG21	26:A2:89:ASN:N	2.17	0.60
29:A5:46:CYS:HB3	29:A5:47:PRO:HD2	1.83	0.60
30:A6:29:ARG:O	30:A6:30:ASN:C	2.39	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:A6:11:LYS:NZ	32:A8:35:GLY:N	2.48	0.60
2:AA:242:G:C3'	32:A8:5:LYS:HZ3	2.14	0.60
2:AA:1022:G:C5	2:AA:1139:G:C6	2.89	0.60
2:AA:1238:G:N1	2:AA:1240:U:H5	2.00	0.60
2:AA:1324:G:H4'	2:AA:1616:A:H62	1.65	0.60
2:AA:1142:U:C5	2:AA:142(A):A:H5'	2.35	0.60
2:AA:1473:G:H2'	2:AA:1474:C:C6	2.35	0.60
2:AA:1639:U:H2'	2:AA:1640:C:H5'	1.83	0.60
2:AA:1650:G:C2'	2:AA:1651:G:O5'	2.50	0.60
2:AA:1782:C:C5'	2:AA:1783:A:OP2	2.44	0.60
2:AA:1814:G:C3'	2:AA:1815:A:H8	2.14	0.60
2:AA:573:G:N2	2:AA:2029:G:H21	1.99	0.60
2:AA:2111:C:H2'	2:AA:2117:A:N7	2.16	0.60
2:AA:2176:A:C5	2:AA:2177:C:C5	2.89	0.60
2:AA:2325:G:H2'	2:AA:2326:C:C6	2.36	0.60
2:AA:2422:A:H2'	2:AA:2424:C:C5	2.34	0.60
2:AA:2476:A:N7	2:AA:2477:C:C6	2.69	0.60
2:AA:2448:A:OP2	2:AA:2499:C:OP2	2.20	0.60
2:AA:2525:G:C2	2:AA:2539:C:N3	2.70	0.60
2:AA:2552:U:C2	2:AA:2554:U:H5''	2.37	0.60
2:AA:2583:G:C4	2:AA:2584:U:O2	2.54	0.60
2:AA:2606:C:H5'	2:AA:2606:C:C6	2.32	0.60
2:AA:2703:C:H5	2:AA:2704:C:N3	1.99	0.60
2:AA:2717:G:H3'	2:AA:2717:G:P	2.41	0.60
2:AA:2735:G:C6	2:AA:2770:G:N2	2.69	0.60
2:AA:2807:G:H2'	2:AA:2808:U:C6	2.35	0.60
2:AA:281:G:N2	2:AA:282:A:C8	2.69	0.60
2:AA:2826:A:C6	2:AA:2827:C:C6	2.89	0.60
2:AA:296:C:O2'	2:AA:297:C:C5'	2.47	0.60
2:AA:358:U:O2	2:AA:358:U:H2'	2.00	0.60
2:AA:442:G:N3	6:AF:46:TYR:OH	2.29	0.60
2:AA:450:G:N2	2:AA:454:A:C2	2.68	0.60
2:AA:660:G:C4	2:AA:661:C:C5	2.89	0.60
2:AA:772:C:H2'	2:AA:773:U:H6	1.65	0.60
2:AA:684:G:C6	2:AA:775:G:C8	2.89	0.60
2:AA:866:A:C2	2:AA:867:C:C6	2.90	0.60
1:AB:82:G:H2'	1:AB:83:G:C8	2.28	0.60
1:AB:97:G:N7	1:AB:98:G:N7	2.49	0.60
1:AB:99:A:H8	1:AB:99:A:H5''	1.67	0.60
3:AC:131:LEU:HB3	3:AC:136:LEU:HB2	1.81	0.60
4:AD:120:ASP:CG	4:AD:121:ALA:N	2.55	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:55:ARG:CG	6:AF:56:THR:N	2.42	0.60
6:AF:93:LYS:CG	6:AF:96:LYS:HE3	2.31	0.60
8:AH:25:VAL:HB	8:AH:32:LEU:CD2	2.31	0.60
2:AA:1085:A:OP2	9:AI:36:PRO:HB2	2.01	0.60
9:AJ:78:ARG:NH1	9:AJ:85:LEU:HD22	2.16	0.60
11:AL:107:GLU:HA	11:AL:110:LYS:HD2	1.83	0.60
12:AM:50:GLU:HB3	12:AM:134:GLU:OE2	2.00	0.60
14:AO:124:ASP:C	14:AO:125:PHE:CG	2.74	0.60
18:AS:35:ILE:O	18:AS:39:THR:HB	2.01	0.60
21:AV:103:ARG:O	21:AV:141:MET:SD	2.59	0.60
15:AP:42:TYR:HB3	21:AV:119:ASN:OD1	2.00	0.60
21:AV:6:LYS:H	21:AV:7:PRO:CD	2.14	0.60
22:AW:45:ARG:HH21	22:AW:49:LEU:HG	1.65	0.60
22:AW:55:ARG:O	22:AW:56:ILE:C	2.40	0.60
2:AA:929:G:C2'	23:AX:37:LEU:HD13	2.30	0.60
35:BC:37:G:N2	36:B1:60:A:C5	2.69	0.60
34:BA:102:G:H2'	34:BA:103:C:O4'	2.01	0.60
34:BA:1120:G:O2'	34:BA:1121:U:H5'	2.01	0.60
34:BA:1049:U:C6	34:BA:1201:A:H5'	2.36	0.60
34:BA:1289:A:C2'	34:BA:1290:G:O5'	2.49	0.60
34:BA:1329:A:H2'	34:BA:1330:U:O4'	2.00	0.60
34:BA:1406:U:O2	34:BA:1407:C:C6	2.54	0.60
34:BA:1514:C:O2'	34:BA:1515:C:H5'	2.01	0.60
34:BA:565:U:H3'	34:BA:566:G:C8	2.37	0.60
34:BA:642:A:H2	43:BK:113:SER:O	1.84	0.60
34:BA:662:G:O2'	34:BA:836:G:H5''	2.00	0.60
34:BA:728:A:C8	50:BR:54:ARG:NH1	2.66	0.60
34:BA:752:G:C8	34:BA:752:G:OP2	2.54	0.60
34:BA:82:U:H2'	34:BA:83:U:O4'	2.01	0.60
34:BA:955:U:H2'	34:BA:956:U:H6	1.65	0.60
37:BE:102:LEU:HD12	37:BE:102:LEU:N	2.16	0.60
37:BE:42:ILE:CG2	37:BE:43:ASP:N	2.63	0.60
40:BH:80:ILE:HD11	40:BH:91:LEU:HB3	1.81	0.60
41:BI:26:ILE:O	41:BI:30:LEU:CD1	2.48	0.60
41:BI:76:ALA:C	41:BI:80:ARG:NE	2.54	0.60
43:BK:109:ILE:O	43:BK:136:GLU:HB2	2.01	0.60
43:BK:82:HIS:O	43:BK:137:VAL:HG13	2.00	0.60
44:BL:114:TYR:CD2	44:BL:114:TYR:N	2.69	0.60
44:BL:51:ARG:O	44:BL:53:VAL:N	2.34	0.60
46:BN:69:ALA:O	46:BN:72:ALA:N	2.34	0.60
47:BO:79:GLU:HB3	47:BO:80:HIS:CE1	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:8:GLU:HG3	48:BP:22:ILE:CD1	2.30	0.60
48:BP:73:GLU:OE2	48:BP:74:VAL:N	2.34	0.60
51:BS:49:LEU:HD11	51:BS:51:VAL:CG2	2.31	0.60
52:BT:5:VAL:CA	52:BT:59:ILE:O	2.49	0.60
54:BV:16:LEU:O	54:BV:19:VAL:HG12	2.02	0.60
56:BX:3:LYS:HB3	56:BX:14:TRP:CG	2.36	0.60
35:BB:30:G:H1	35:BB:40:C:N4	1.98	0.60
36:B1:14:U:P	36:B1:38:C:N4	2.74	0.60
2:AA:533:G:OP1	25:A1:24:PHE:CB	2.49	0.60
26:A2:1:MET:C	26:A2:2:PHE:HD1	2.05	0.60
2:AA:1365:A:C5'	28:A4:3:LYS:HD2	2.27	0.60
2:AA:684:G:OP1	31:A7:16:HIS:CE1	2.54	0.60
31:A7:21:ARG:HB3	31:A7:31:LEU:CD1	2.32	0.60
2:AA:1612:C:C2	31:A7:3:ARG:NH1	2.69	0.60
31:A7:34:ARG:HD2	31:A7:42:LEU:HD21	1.82	0.60
32:A8:26:LYS:CG	32:A8:45:GLY:H	2.15	0.60
2:AA:1020:A:H4'	12:AM:49:ARG:CZ	2.32	0.60
2:AA:1021:A:N3	2:AA:1123:C:OP1	2.34	0.60
2:AA:1142:U:H3'	2:AA:142(A):A:C5'	2.32	0.60
2:AA:117:G:C2	2:AA:119:A:N6	2.69	0.60
2:AA:1217:C:N4	2:AA:1218:C:H41	1.99	0.60
2:AA:1366:A:H2'	2:AA:1367:A:H8	1.66	0.60
2:AA:1673:U:O2'	2:AA:1674:G:O5'	2.19	0.60
2:AA:1698:A:H1'	2:AA:1700:A:O5'	2.01	0.60
2:AA:177:G:H2'	2:AA:178:G:OP1	2.00	0.60
2:AA:1887:C:C2'	2:AA:1888:G:O5'	2.49	0.60
2:AA:191:A:O5'	2:AA:191:A:H8	1.83	0.60
2:AA:1993:U:C2'	2:AA:1994:C:C5'	2.76	0.60
2:AA:205:G:HO2'	2:AA:206:U:P	2.23	0.60
2:AA:2175:C:H2'	2:AA:2176:A:C8	2.35	0.60
2:AA:2322:A:C2	2:AA:2323:G:O4'	2.54	0.60
2:AA:237:C:C4	2:AA:238:C:C5	2.90	0.60
2:AA:2400:G:N2	2:AA:2417:C:C2	2.69	0.60
2:AA:2462:U:C4	2:AA:2463:C:C4	2.89	0.60
2:AA:2720:U:H2'	2:AA:2721:A:H8	1.65	0.60
2:AA:2829:C:H2'	2:AA:2830:G:H8	1.66	0.60
2:AA:2832:U:C1'	2:AA:2834:G:H21	2.12	0.60
2:AA:2889:C:H2'	2:AA:2891:G:C8	2.36	0.60
2:AA:319:C:C4	2:AA:320:A:N7	2.70	0.60
2:AA:556:G:H2'	2:AA:557:U:O4'	2.01	0.60
2:AA:582:G:H1	2:AA:1258:C:N4	1.98	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:722:A:O2'	2:AA:723:G:C5'	2.50	0.60
2:AA:838:C:O2'	2:AA:839:U:O5'	2.19	0.60
2:AA:929:G:O3'	23:AX:37:LEU:HD21	2.00	0.60
2:AA:996:A:N1	2:AA:997:G:C5	2.69	0.60
1:AB:34:U:N3	1:AB:48:A:C2	2.69	0.60
1:AB:59:A:C2'	1:AB:60:C:H5'	2.32	0.60
1:AB:73:A:O4'	1:AB:73:A:OP2	2.19	0.60
3:AC:27:HIS:O	3:AC:31:GLU:HG3	2.01	0.60
4:AD:213:LYS:O	4:AD:214:MET:CB	2.49	0.60
4:AD:90:ILE:CG2	4:AD:91:ALA:N	2.63	0.60
4:AD:88:ALA:HB1	4:AD:90:ILE:HD11	1.82	0.60
2:AA:2617:C:H1'	5:AE:245:ARG:HH22	1.66	0.60
5:AE:271:ILE:HG22	5:AE:272:GLY:N	2.15	0.60
5:AE:70:VAL:HG22	5:AE:296:VAL:O	2.02	0.60
6:AF:213:ALA:CB	6:AF:218:VAL:CG2	2.72	0.60
7:AG:151:ILE:HD13	7:AG:156:ARG:HH22	1.64	0.60
8:AH:104:LEU:HB2	8:AH:151:ARG:NH1	2.16	0.60
8:AH:158:GLY:O	8:AH:159:LYS:CB	2.49	0.60
8:AH:26:LYS:NZ	8:AH:33:THR:CG2	2.65	0.60
9:AI:115:LYS:O	9:AI:119:GLU:HG3	2.02	0.60
9:AI:63:LEU:CD2	9:AI:118:LEU:HD13	2.31	0.60
11:AL:73:PRO:HG2	11:AL:78:LEU:HD21	1.83	0.60
13:AN:60:ALA:HA	13:AN:87:ILE:HD13	1.83	0.60
14:AO:142:LEU:O	14:AO:144:ASP:N	2.34	0.60
16:AQ:31:LYS:HZ2	16:AQ:99:GLU:HB2	1.65	0.60
13:AN:64:ARG:NH1	17:AR:24:LYS:HG3	2.16	0.60
19:AT:55:GLN:NE2	19:AT:57:THR:HG23	2.16	0.60
21:AV:123:VAL:HA	21:AV:161:ALA:HB3	1.80	0.60
21:AV:46:GLN:NE2	21:AV:50:GLY:CA	2.54	0.60
22:AW:19:GLU:C	22:AW:23:LEU:HG	2.20	0.60
22:AW:61:GLY:O	22:AW:64:GLY:N	2.34	0.60
2:AA:929:G:C2'	23:AX:43:ILE:HG13	2.30	0.60
36:B1:65:U:O3'	36:B1:66:G:H8	1.85	0.60
34:BA:1116:C:C2	34:BA:1117:G:C8	2.88	0.60
34:BA:793:U:O2	34:BA:1516:G:H4'	2.01	0.60
34:BA:283:C:N3	34:BA:284:G:N7	2.49	0.60
34:BA:308:C:H2'	34:BA:309:G:C5'	2.32	0.60
34:BA:357:G:C2'	34:BA:358:U:H5'	2.32	0.60
34:BA:690:G:H2'	34:BA:691:G:O4'	2.01	0.60
34:BA:703:G:H8	34:BA:703:G:OP2	1.84	0.60
34:BA:767:A:H8	34:BA:767:A:O5'	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:985:C:H2'	34:BA:986:A:H8	1.66	0.60
34:BA:995:C:O2'	49:BQ:4:LYS:HE2	2.02	0.60
34:BA:998:G:H2'	34:BA:999:C:H5'	1.81	0.60
34:BA:69:G:H1	34:BA:99:C:H42	1.47	0.60
35:BB:60:C:C5'	35:BB:61:C:P	2.83	0.60
37:BE:146:GLN:O	37:BE:147:LYS:C	2.39	0.60
37:BE:157:ARG:C	37:BE:158:LEU:HD23	2.22	0.60
38:BF:11:ARG:NH1	38:BF:11:ARG:HG3	2.16	0.60
38:BF:193:TYR:N	38:BF:193:TYR:CD2	2.70	0.60
45:BM:23:ILE:HG13	45:BM:85:LEU:HD22	1.81	0.60
46:BN:85:ARG:NE	46:BN:113:PRO:HD3	2.16	0.60
48:BP:13:LYS:CA	48:BP:44:ARG:NE	2.62	0.60
49:BQ:11:LYS:O	49:BQ:12:ARG:HB2	2.01	0.60
34:BA:609:A:OP1	51:BS:18:ARG:NH2	2.34	0.60
41:BI:96:PRO:C	53:BU:32:ARG:NE	2.55	0.60
53:BU:38:GLU:O	53:BU:42:ARG:CG	2.48	0.60
10:AK:93:ILE:CG1	10:AK:121:ILE:H	2.15	0.60
26:A2:19:VAL:CG1	26:A2:21:ARG:HH12	2.15	0.60
26:A2:28:GLU:C	26:A2:30:GLY:N	2.55	0.60
27:A3:36:ILE:O	27:A3:36:ILE:HG22	2.02	0.60
28:A4:11:PRO:C	28:A4:12:CYS:SG	2.80	0.60
28:A4:6:HIS:HE1	28:A4:55:ARG:HB2	1.65	0.60
29:A5:11:THR:HB	29:A5:16:ARG:CD	2.29	0.60
32:A8:29:LYS:HD3	32:A8:36:LYS:CE	2.31	0.60
2:AA:1135:C:O2'	2:AA:1136:G:C5'	2.47	0.60
2:AA:1263:U:N3	2:AA:1264:G:N2	2.49	0.60
2:AA:1324:G:C2	2:AA:1328:G:N2	2.69	0.60
2:AA:1379:A:C2'	2:AA:1379:A:N3	2.64	0.60
2:AA:1697:G:H3'	2:AA:1698:A:H5'	1.80	0.60
2:AA:1789:A:H5''	2:AA:1790:C:OP2	2.01	0.60
2:AA:1947:C:N3	2:AA:1948:G:C8	2.70	0.60
2:AA:1977:A:C2'	2:AA:1978:A:C8	2.74	0.60
2:AA:747:U:O2	2:AA:2015:A:H2	1.84	0.60
2:AA:2104:G:C2	2:AA:2105:C:C2	2.89	0.60
2:AA:2194:G:H2'	2:AA:2194:G:N3	2.14	0.60
2:AA:219:G:H2'	2:AA:220:G:C8	2.36	0.60
2:AA:2210:G:H4'	2:AA:2211:G:O5'	2.02	0.60
2:AA:2219:G:OP1	4:AD:184:LEU:CD2	2.50	0.60
2:AA:919:G:C2	2:AA:2268:A:H5''	2.34	0.60
2:AA:2373:G:H1	2:AA:2380:C:H42	0.73	0.60
2:AA:2244:U:H1'	2:AA:2434:A:C5	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:830:G:N7	2:AA:2448:A:C8	2.69	0.60
2:AA:2488:A:C6	2:AA:2489:G:N7	2.69	0.60
2:AA:2492:U:C2'	2:AA:2493:U:O5'	2.48	0.60
2:AA:2653:U:H2'	2:AA:2654:A:N7	2.16	0.60
2:AA:270(W):G:H2'	2:AA:270(X):G:C8	2.37	0.60
2:AA:2771:C:H2'	2:AA:2772:C:C6	2.36	0.60
2:AA:2848:G:N2	2:AA:2867:G:N3	2.49	0.60
2:AA:2831:G:O4'	2:AA:2883:A:C2	2.54	0.60
2:AA:294:A:H4'	20:AU:15:PRO:HD2	1.84	0.60
2:AA:463:G:N2	2:AA:466:A:OP2	2.35	0.60
2:AA:529:A:C2	2:AA:2022:U:C5'	2.85	0.60
2:AA:542:C:C2	2:AA:543:C:C5	2.89	0.60
2:AA:567:A:C2	2:AA:568:U:N1	2.70	0.60
2:AA:627:A:C4	2:AA:637:A:N3	2.70	0.60
2:AA:643:A:O2'	2:AA:644:A:C8	2.55	0.60
2:AA:647:G:H1'	2:AA:2351:G:OP1	2.01	0.60
2:AA:727:A:H2'	2:AA:728:G:O5'	2.01	0.60
2:AA:917:A:H2'	2:AA:918:A:H4'	1.83	0.60
2:AA:941:A:C2	2:AA:942:G:N3	2.70	0.60
2:AA:987:G:O6	2:AA:988:A:C5	2.55	0.60
1:AB:100:G:C5	1:AB:101:A:N7	2.70	0.60
1:AB:19:G:OP2	7:AG:149:ARG:NH1	2.32	0.60
3:AC:48:GLY:CA	3:AC:210:ARG:NH1	2.64	0.60
4:AD:197:GLY:C	4:AD:199:ARG:N	2.44	0.60
4:AD:223:ASN:O	4:AD:224:VAL:O	2.20	0.60
5:AE:44:TYR:CD1	5:AE:308:VAL:HA	2.36	0.60
6:AF:220:THR:O	6:AF:221:GLU:C	2.38	0.60
6:AF:6:TYR:CG	6:AF:139:VAL:O	2.54	0.60
9:AI:109:GLU:O	9:AI:113:GLU:HG3	2.01	0.60
9:AI:63:LEU:HD13	9:AI:66:PHE:CZ	2.36	0.60
9:AJ:86:LYS:HD2	11:AL:10:LYS:CE	2.24	0.60
9:AI:7:ILE:CD1	11:AL:118:ALA:CA	2.78	0.60
12:AM:38:VAL:O	12:AM:103:VAL:CG1	2.48	0.60
12:AM:39:VAL:O	12:AM:40:ASN:CB	2.49	0.60
13:AN:25:LEU:HD12	13:AN:38:VAL:O	2.02	0.60
13:AN:87:ILE:CG2	13:AN:88:ARG:N	2.64	0.60
15:AP:48:ASN:HB2	15:AP:140:TYR:CZ	2.36	0.60
16:AQ:120:GLU:HA	16:AQ:123:ILE:HB	1.82	0.60
18:AS:36:LEU:CB	18:AS:48:ALA:HB2	2.32	0.60
20:AU:16:LEU:HD12	20:AU:16:LEU:H	1.66	0.60
36:B1:55:U:H2'	36:B1:56:A:N7	2.15	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1004:A:C8	34:BA:1036:G:O6	2.39	0.60
34:BA:1129:C:H4'	34:BA:1131:G:C8	2.33	0.60
34:BA:1394:A:H8	34:BA:1394:A:O5'	1.83	0.60
34:BA:1405:G:H21	34:BA:1517:G:N2	1.99	0.60
34:BA:192:U:C2	34:BA:193:C:C5	2.90	0.60
34:BA:32:A:C2'	34:BA:33:A:O4'	2.49	0.60
34:BA:723:U:C2'	34:BA:723:U:O2	2.50	0.60
34:BA:739:C:C2'	34:BA:740:U:H5'	2.31	0.60
34:BA:761:G:H4'	52:BT:103:GLY:CA	2.30	0.60
34:BA:810:C:C2'	34:BA:811:C:O5'	2.50	0.60
34:BA:886:G:C2'	34:BA:887:G:H5'	2.31	0.60
34:BA:894:G:C5	34:BA:895:G:N7	2.70	0.60
34:BA:985:C:N3	34:BA:1221:G:C2	2.70	0.60
35:BB:18:G:N2	35:BB:57:G:N3	2.49	0.60
37:BE:147:LYS:HB2	37:BE:147:LYS:NZ	2.17	0.60
38:BF:141:VAL:CG1	38:BF:202:ILE:HD13	2.31	0.60
38:BF:49:SER:C	38:BF:51:GLY:N	2.55	0.60
39:BG:180:GLY:O	39:BG:181:MET:C	2.40	0.60
39:BG:68:TYR:O	39:BG:69:GLY:C	2.40	0.60
42:BJ:99:LEU:CD2	42:BJ:102:ARG:HD2	2.30	0.60
34:BA:1342:C:H1'	44:BL:124:GLN:OE1	2.01	0.60
34:BA:1232:U:OP1	44:BL:126:SER:HB3	2.02	0.60
44:BL:16:ARG:HD3	44:BL:64:THR:OG1	2.01	0.60
52:BT:75:ARG:HG3	52:BT:75:ARG:NH1	2.02	0.60
54:BV:2:PRO:O	54:BV:3:ARG:O	2.19	0.60
55:BW:74:LYS:C	55:BW:76:ALA:H	2.03	0.60
56:BX:18:TYR:N	56:BX:18:TYR:CD1	2.59	0.60
37:BE:130:ARG:HE	37:BE:130:ARG:HA	1.61	0.60
18:AS:86:LEU:CD2	18:AS:87:PRO:HD3	2.23	0.60
24:A0:20:LEU:HD21	24:A0:24:GLN:CD	2.22	0.60
25:A1:20:ARG:CG	25:A1:39:LEU:HD11	2.31	0.60
2:AA:921:G:H22	27:A3:23:VAL:HG11	1.66	0.60
28:A4:18:GLY:H	28:A4:33:VAL:HB	1.66	0.60
32:A8:12:ARG:HD2	32:A8:13:ARG:HD2	1.83	0.60
2:AA:1015:G:H2'	2:AA:1016:G:C8	2.36	0.60
2:AA:1022:G:C4	2:AA:1139:G:C2	2.89	0.60
2:AA:1023:U:OP1	2:AA:1025:G:N2	2.34	0.60
2:AA:1063:G:C5'	11:AL:88:GLY:HA3	2.32	0.60
2:AA:1144:G:C5	2:AA:1145:C:C4	2.89	0.60
2:AA:1317:A:C5	2:AA:1318:C:C5	2.89	0.60
2:AA:1344:G:H2'	2:AA:1345:C:OP1	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1480:G:O6	2:AA:1513:C:N3	2.34	0.60
2:AA:1534:G:C2	2:AA:1535:U:H5'	2.37	0.60
2:AA:154:G:C6	2:AA:155:C:H1'	2.36	0.60
2:AA:161:U:C5	2:AA:161:U:OP1	2.55	0.60
2:AA:1640:C:C2'	2:AA:1641:A:O5'	2.49	0.60
2:AA:171:G:H2'	2:AA:172:C:C6	2.35	0.60
2:AA:1800:C:C2'	2:AA:1801:G:H5''	2.31	0.60
2:AA:182:A:O2'	2:AA:183:C:C5'	2.49	0.60
2:AA:1908:C:N4	2:AA:1922:G:H1	1.97	0.60
2:AA:1943:U:C1'	2:AA:1945:G:C5'	2.76	0.60
2:AA:1956:U:O2	2:AA:1957:C:O4'	2.20	0.60
2:AA:2018:G:N2	2:AA:2019:A:C1'	2.65	0.60
2:AA:2043:C:O2	2:AA:2044:C:H6	1.83	0.60
2:AA:2209:C:O4'	4:AD:149:ARG:NH2	2.34	0.60
2:AA:23:G:H21	18:AS:77:ASP:CG	2.05	0.60
2:AA:2419:U:O4	32:A8:31:HIS:CE1	2.55	0.60
2:AA:2432:A:N3	2:AA:2432:A:H2'	2.17	0.60
2:AA:2626:C:C2	2:AA:2627:G:N7	2.70	0.60
2:AA:265:A:N3	2:AA:266:G:C1'	2.65	0.60
2:AA:2737:G:C2	2:AA:2768:C:N3	2.69	0.60
2:AA:2808:U:C2'	2:AA:2810:A:OP1	2.49	0.60
2:AA:2818:G:H4'	2:AA:2837:G:O4'	2.01	0.60
2:AA:2841:C:C2	2:AA:2842:G:N7	2.70	0.60
2:AA:435:C:H2'	2:AA:436:C:H5'	1.83	0.60
2:AA:618:G:C8	2:AA:618(A):C:C5	2.89	0.60
2:AA:649:G:O3'	32:A8:17:THR:HG21	2.01	0.60
2:AA:703:U:H5''	2:AA:704:G:OP2	2.02	0.60
2:AA:75:G:O3'	22:AW:51:LYS:NZ	2.29	0.60
2:AA:881:G:N2	2:AA:896:A:N1	2.47	0.60
1:AB:17:C:H3'	1:AB:18:G:H8	1.66	0.60
6:AF:153:VAL:C	6:AF:157:LEU:HG	2.21	0.60
6:AF:165:ASP:O	6:AF:168:ARG:N	2.35	0.60
6:AF:205:ARG:HG2	6:AF:212:VAL:CB	2.30	0.60
7:AG:36:ASN:C	7:AG:39:ASP:H	2.05	0.60
7:AG:88:LEU:HD23	7:AG:88:LEU:O	2.02	0.60
8:AH:102:LEU:HD21	8:AH:114:ILE:CB	2.30	0.60
9:AI:103:LYS:HD3	9:AI:114:ILE:CG1	2.31	0.60
9:AJ:115:LYS:HZ3	9:AJ:127:LEU:HD13	1.64	0.60
11:AL:72:THR:CG2	11:AL:115:ASP:H	2.15	0.60
11:AL:109:ALA:HB2	11:AL:128:ILE:CD1	2.31	0.60
14:AO:66:VAL:HB	14:AO:67:ARG:NE	2.15	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AO:94:ARG:HE	14:AO:118:LEU:CB	2.14	0.60
16:AQ:41:LYS:HB3	16:AQ:42:HIS:CE1	2.37	0.60
18:AS:22:ASP:O	18:AS:25:ARG:HD2	2.01	0.60
20:AU:28:SER:HB3	20:AU:99:THR:OG1	2.02	0.60
20:AU:48:VAL:HG13	20:AU:97:ARG:C	2.21	0.60
21:AV:150:GLY:O	21:AV:151:ASP:C	2.40	0.60
34:BA:1005:A:O2'	34:BA:1006:C:H5'	2.01	0.60
34:BA:1085:U:H6	34:BA:1094:G:H22	1.48	0.60
34:BA:1107:C:C2'	34:BA:1108:G:H5'	2.28	0.60
34:BA:1217:C:O2'	34:BA:1218:C:H5'	2.01	0.60
34:BA:934:C:N4	34:BA:1344:C:C2	2.70	0.60
34:BA:1361:G:C3'	34:BA:1361:G:C8	2.80	0.60
34:BA:1498:U:H2'	34:BA:1498:U:O2	2.00	0.60
34:BA:21:G:H2'	34:BA:22:G:C8	2.33	0.60
34:BA:307:C:O2	34:BA:307:C:H2'	1.99	0.60
34:BA:379:C:N4	34:BA:384:G:H1	1.97	0.60
34:BA:740:U:O2'	34:BA:741:G:H5'	2.01	0.60
34:BA:80:G:H3'	34:BA:81:U:C5'	2.29	0.60
34:BA:862:C:C5	34:BA:863:U:H5	2.20	0.60
34:BA:947:G:N3	34:BA:948:C:C6	2.70	0.60
35:BB:15:G:O5'	35:BB:15:G:C8	2.52	0.60
35:BB:62:A:C2'	35:BB:63:C:O5'	2.50	0.60
35:BB:67:A:C6	35:BB:68:U:O4	2.55	0.60
35:BC:37:G:C6	35:BC:38:A:N6	2.70	0.60
39:BG:205:GLU:O	39:BG:208:SER:HB3	2.02	0.60
40:BH:141:GLN:HG3	40:BH:143:ARG:NH2	2.16	0.60
40:BH:32:VAL:CG1	40:BH:33:VAL:N	2.65	0.60
40:BH:63:ARG:O	40:BH:66:MET:HG2	2.01	0.60
41:BI:57:GLN:HE21	41:BI:57:GLN:C	2.05	0.60
42:BJ:31:MET:HG2	42:BJ:32:ARG:N	2.14	0.60
43:BK:89:PRO:HA	43:BK:92:ARG:NH2	2.16	0.60
34:BA:1341:U:O2'	44:BL:126:SER:O	2.16	0.60
45:BM:10:GLY:CA	45:BM:16:LEU:HD21	2.17	0.60
48:BP:37:THR:OG1	48:BP:59:TYR:CG	2.49	0.60
50:BR:3:ILE:HD12	50:BR:3:ILE:N	2.16	0.60
50:BR:57:LEU:O	50:BR:58:MET:C	2.38	0.60
51:BS:8:ARG:C	51:BS:9:PHE:HD2	2.04	0.60
53:BU:69:THR:O	53:BU:70:ILE:C	2.40	0.60
2:AA:1510:A:C5'	2:AA:1511:A:OP2	2.49	0.60
35:BB:72:C:N3	35:BB:73:A:N7	2.49	0.60
2:AA:2900:A:H2'	2:AA:2901:C:H6	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:564:C:O4'	25:A1:37:GLN:CD	2.40	0.60
26:A2:4:ILE:CG2	26:A2:12:TYR:HD2	2.15	0.60
29:A5:40:LYS:NZ	29:A5:46:CYS:CB	2.64	0.60
32:A8:12:ARG:HG3	32:A8:12:ARG:O	2.00	0.60
2:AA:1032:A:OP1	33:A9:8:LYS:HG3	2.00	0.60
2:AA:1165:U:C2	2:AA:1166:C:C5	2.90	0.60
2:AA:1208:C:H2'	2:AA:1209:G:C8	2.33	0.60
2:AA:1214:A:C2	2:AA:1215:G:C4	2.89	0.60
2:AA:31:C:H5''	2:AA:1239:G:OP1	2.01	0.60
2:AA:1280:G:O2'	2:AA:1281:G:C5'	2.49	0.60
2:AA:1428:C:C4	2:AA:1569:A:H5''	2.36	0.60
2:AA:1433:U:O2	2:AA:1560:G:O6	2.19	0.60
2:AA:1449:A:C2	2:AA:449(A):G:C4	2.90	0.60
2:AA:1486:A:O2'	2:AA:1487:G:H5'	2.02	0.60
2:AA:1432:C:C2	2:AA:1562:A:N1	2.70	0.60
2:AA:1665:A:O2'	13:AN:67:ARG:NH1	2.34	0.60
2:AA:1670:C:C2'	2:AA:1671:U:C5'	2.78	0.60
2:AA:1706:U:O2	2:AA:1706:U:H2'	2.01	0.60
2:AA:1710:C:H1'	2:AA:2858:C:H42	1.66	0.60
2:AA:1808:U:O2	2:AA:1808:U:C2'	2.50	0.60
2:AA:1899:G:C2'	2:AA:1900:A:OP2	2.50	0.60
2:AA:191:A:H2'	2:AA:192:C:O4'	2.01	0.60
2:AA:1990:C:C2	2:AA:1991:U:O2	2.55	0.60
2:AA:2015:A:H2'	2:AA:2016:U:H6	1.67	0.60
2:AA:2035:G:O2'	2:AA:2036:C:OP1	2.14	0.60
2:AA:204:A:O2'	2:AA:205:G:C4'	2.50	0.60
2:AA:2121:G:C8	2:AA:2121:G:OP2	2.54	0.60
2:AA:2136:C:C4	2:AA:2154:G:N1	2.69	0.60
2:AA:2213:U:H5'	2:AA:2215:G:C8	2.37	0.60
2:AA:2360:A:H2'	2:AA:2361:A:O5'	2.00	0.60
2:AA:248:G:C2	2:AA:2431:U:H5''	2.36	0.60
2:AA:2711:A:OP1	2:AA:712(A):A:OP2	2.19	0.60
2:AA:2830:G:H2'	2:AA:2883:A:N1	2.17	0.60
2:AA:2847:U:C5	2:AA:2848:G:N7	2.70	0.60
2:AA:2872:G:C2	2:AA:2873:A:C6	2.90	0.60
2:AA:278:A:N1	2:AA:362:U:C4	2.70	0.60
2:AA:38:A:H1'	6:AF:46:TYR:CE2	2.37	0.60
2:AA:449:A:C2	2:AA:450:G:C8	2.90	0.60
2:AA:466:A:O2'	2:AA:467:G:H5'	2.02	0.60
2:AA:721:C:C2	2:AA:722:A:C8	2.90	0.60
2:AA:753:C:C2'	2:AA:754:C:O5'	2.50	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:774:A:C1'	2:AA:775:G:C8	2.84	0.60
2:AA:815:C:H2'	2:AA:816:C:H5'	1.83	0.60
2:AA:866:A:C2'	2:AA:867:C:O5'	2.48	0.60
1:AB:89(A):A:C3'	1:AB:90:C:H5'	2.32	0.60
3:AC:33:ALA:HB1	3:AC:39:GLU:CB	2.32	0.60
3:AC:33:ALA:CB	3:AC:39:GLU:HB3	2.31	0.60
4:AD:141:HIS:HE1	4:AD:191:VAL:C	2.03	0.60
5:AE:44:TYR:HB3	5:AE:74:GLU:OE1	2.01	0.60
5:AE:45:LYS:HD2	5:AE:304:ASP:C	2.22	0.60
2:AA:606:U:H5'	6:AF:103:ASN:CG	2.21	0.60
6:AF:103:ASN:CB	6:AF:106:GLU:OE2	2.45	0.60
8:AH:116:PRO:HD3	8:AH:122:ILE:HD12	1.84	0.60
9:AI:111:ALA:O	9:AI:115:LYS:HG3	2.00	0.60
9:AJ:103:LYS:HB2	9:AJ:114:ILE:HD13	1.84	0.60
9:AJ:26:GLU:O	9:AJ:30:GLY:N	2.34	0.60
11:AL:20:PRO:CG	11:AL:23:PRO:HG2	2.31	0.60
12:AM:108:PRO:HB2	12:AM:109:TYR:CE1	2.37	0.60
2:AA:1140:C:N4	12:AM:49:ARG:CZ	2.65	0.60
14:AO:122:ALA:O	14:AO:142:LEU:HG	2.01	0.60
14:AO:117:GLU:CA	14:AO:136:ALA:O	2.45	0.60
15:AP:10:ILE:O	15:AP:11:LYS:CD	2.50	0.60
16:AQ:36:ALA:O	16:AQ:105:GLY:HA3	2.01	0.60
17:AR:10:GLY:HA3	17:AR:53:ASP:N	2.16	0.60
20:AU:103:LEU:CD1	20:AU:113:GLU:HB3	2.31	0.60
20:AU:51:LEU:HB3	20:AU:97:ARG:HE	1.67	0.60
21:AV:19:ILE:H	21:AV:36:ARG:CG	2.10	0.60
21:AV:19:ILE:H	21:AV:36:ARG:H	1.50	0.60
23:AX:13:ILE:N	23:AX:13:ILE:HD13	2.14	0.60
23:AX:26:LEU:HD21	23:AX:46:ASN:HB3	1.82	0.60
34:BA:1049:U:C2	34:BA:1201:A:C8	2.90	0.60
34:BA:1099:G:N7	34:BA:1100:C:C4	2.70	0.60
34:BA:1148:U:H2'	34:BA:1149:C:O4'	2.01	0.60
34:BA:1152:A:O2'	34:BA:1153:C:C5'	2.49	0.60
34:BA:1208:C:O2'	34:BA:1209:C:H5'	2.01	0.60
34:BA:1326:C:C4	34:BA:1327:C:N4	2.70	0.60
34:BA:1326:C:OP2	56:BX:6:ARG:NH1	2.35	0.60
34:BA:1370:G:C2	34:BA:1371:G:N7	2.70	0.60
34:BA:1419:G:C2	34:BA:1420:C:C2	2.90	0.60
34:BA:1469:G:O2'	34:BA:1470:G:H5'	2.01	0.60
34:BA:169:C:O2'	34:BA:170:U:H5'	2.01	0.60
34:BA:198:G:H2'	34:BA:199:G:H8	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:28:G:C2	34:BA:556:C:C4	2.89	0.60
34:BA:501:C:H2'	34:BA:502:G:C8	2.33	0.60
34:BA:754:C:C5'	34:BA:755:G:H8	2.03	0.60
34:BA:773:G:C6	34:BA:774:G:N7	2.70	0.60
34:BA:816:A:C2'	34:BA:817:C:OP2	2.49	0.60
35:BC:44:A:C6	35:BC:45:G:N2	2.69	0.60
35:BC:52:U:H2'	35:BC:53:G:O4'	2.02	0.60
37:BE:168:THR:CG2	37:BE:192:SER:HA	2.31	0.60
37:BE:204:ASN:HD22	37:BE:205:ASP:N	2.00	0.60
37:BE:82:ARG:HD2	37:BE:92:TYR:CZ	2.37	0.60
41:BI:76:ALA:HA	41:BI:79:LEU:CD1	2.31	0.60
42:BJ:15:ASP:OD1	42:BJ:17:VAL:HB	2.02	0.60
44:BL:119:ALA:O	44:BL:120:ARG:HG3	2.01	0.60
48:BP:16:ASP:HA	48:BP:19:LEU:HD11	1.84	0.60
48:BP:81:LEU:HD11	48:BP:88:ARG:CZ	2.30	0.60
48:BP:88:ARG:CG	48:BP:89:GLY:N	2.64	0.60
45:BM:62:HIS:O	49:BQ:59:ALA:HB3	2.02	0.60
50:BR:21:ASP:O	50:BR:27:VAL:HG21	2.01	0.60
50:BR:34:LEU:O	50:BR:38:ARG:HG2	2.02	0.60
10:AK:103:GLN:HA	10:AK:108:LEU:O	2.02	0.60
10:AK:124:LEU:HD12	10:AK:145:VAL:HG12	1.84	0.60
24:A0:105:ARG:NE	24:A0:105:ARG:CA	2.63	0.60
24:A0:36:THR:CG2	24:A0:40:LYS:HB3	2.31	0.60
26:A2:3:ALA:HB1	26:A2:39:PHE:HZ	1.64	0.60
27:A3:45:PHE:O	27:A3:46:LYS:HE3	2.02	0.60
33:A9:17:VAL:HG21	33:A9:26:ILE:HD12	1.82	0.60
33:A9:15:LYS:O	33:A9:25:VAL:HA	2.01	0.60
2:AA:1008:C:O2'	2:AA:1009:A:P	2.59	0.60
2:AA:1056:G:C2	2:AA:1102:C:N4	2.70	0.60
2:AA:586:A:C5	2:AA:1254:A:H2	2.20	0.60
2:AA:139:G:N9	2:AA:141(A):C:O2	2.34	0.60
2:AA:1470:G:N2	2:AA:1522:G:C6	2.70	0.60
2:AA:1497:U:C4	2:AA:1498:C:H5	2.19	0.60
2:AA:1609:A:C5	2:AA:1616:A:C2	2.89	0.60
2:AA:1735:C:HO2'	2:AA:1741:C:H6	1.50	0.60
2:AA:176:G:N2	2:AA:177:G:H1'	2.16	0.60
2:AA:1804:C:H2'	2:AA:1804:C:O2	2.02	0.60
2:AA:1805:U:N3	2:AA:1813:G:C2	2.70	0.60
2:AA:1862:G:H2'	2:AA:1863:G:C8	2.34	0.60
2:AA:1769:G:H4'	2:AA:1958:C:H5"	1.82	0.60
2:AA:530:G:O6	2:AA:2022:U:O5'	2.18	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2045:C:O2	29:A5:22:HIS:NE2	2.34	0.60
2:AA:2067:G:C2	2:AA:2069:G:C8	2.90	0.60
2:AA:2125:G:HO2'	2:AA:2126:A:H4'	1.65	0.60
2:AA:2180:U:C2'	2:AA:2181:G:O4'	2.50	0.60
2:AA:2305:A:C8	2:AA:2305:A:H3'	2.36	0.60
2:AA:2313:C:H5'	7:AG:72:LYS:CG	2.20	0.60
2:AA:2435:A:H2'	2:AA:2436:G:O5'	2.02	0.60
2:AA:2450:A:C2	2:AA:2451:A:C1'	2.84	0.60
2:AA:2659:G:H2'	2:AA:2661:G:OP2	2.02	0.60
2:AA:2705:A:C8	2:AA:2706:G:N7	2.70	0.60
2:AA:2805:G:H2'	2:AA:2807:G:C4'	2.31	0.60
2:AA:359:A:C2	2:AA:361:G:C2	2.89	0.60
2:AA:360:G:H2'	2:AA:361:G:C8	2.37	0.60
2:AA:366:C:O2	2:AA:366:C:C2'	2.48	0.60
2:AA:449:A:H2	2:AA:450:G:C4	2.16	0.60
2:AA:499:U:H6	2:AA:500:G:O4'	1.84	0.60
2:AA:559:G:C4	2:AA:560:C:C5	2.90	0.60
2:AA:898:C:H3'	2:AA:899:A:C5'	2.23	0.60
2:AA:951:C:H2'	2:AA:952:G:C8	2.37	0.60
3:AC:59:ARG:O	3:AC:199:HIS:NE2	2.33	0.60
4:AD:154:VAL:HG21	4:AD:160:SER:CA	2.24	0.60
5:AE:213:PRO:HG3	5:AE:235:ILE:H	1.65	0.60
5:AE:300:VAL:N	5:AE:301:PRO:CD	2.63	0.60
5:AE:45:LYS:CE	5:AE:303:PRO:HG2	2.20	0.60
5:AE:68:VAL:HG13	5:AE:69:PRO:CD	2.29	0.60
6:AF:200:PRO:CB	6:AF:212:VAL:HG11	2.30	0.60
7:AG:82:GLU:O	7:AG:85:GLN:HG3	2.02	0.60
8:AH:25:VAL:HG21	8:AH:74:MET:SD	2.42	0.60
8:AH:86:LEU:HD23	8:AH:148:ARG:HG2	1.83	0.60
9:AJ:81:THR:HG22	9:AJ:103:LYS:HG2	1.84	0.60
9:AJ:78:ARG:HH11	9:AJ:85:LEU:HD22	1.67	0.60
11:AL:93:LYS:HA	11:AL:96:ILE:CG1	2.32	0.60
12:AM:105:LEU:N	12:AM:105:LEU:CD2	2.65	0.60
13:AN:37:ASP:O	13:AN:61:VAL:HG13	2.02	0.60
13:AN:71:ARG:NH2	13:AN:77:ILE:CG2	2.54	0.60
14:AO:65:ASP:C	14:AO:108:VAL:HG13	2.22	0.60
14:AO:116:HIS:HB3	14:AO:118:LEU:HD11	1.83	0.60
1:AB:37:C:O2	16:AQ:111:PRO:CG	2.45	0.60
18:AS:30:GLU:CA	18:AS:33:ARG:CD	2.77	0.60
2:AA:2013:A:C4'	18:AS:96:ILE:HG22	2.32	0.60
21:AV:107:GLU:N	21:AV:107:GLU:CD	2.47	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:874:G:OP1	21:AV:172:LEU:CD1	2.50	0.60
21:AV:69:VAL:HG12	21:AV:70:GLN:H	1.66	0.60
19:AT:8:PRO:HG3	22:AW:33:VAL:HG13	1.82	0.60
22:AW:54:ALA:O	22:AW:57:LYS:HB2	2.01	0.60
23:AX:26:LEU:CG	23:AX:28:LEU:HD11	2.32	0.60
34:BA:1055:A:C2	34:BA:1206:G:H1'	2.37	0.60
34:BA:1135:U:N3	34:BA:1137:C:O2	2.35	0.60
34:BA:1339:A:H8	34:BA:1339:A:O5'	1.85	0.60
34:BA:1408:A:C2	34:BA:1494:G:C2	2.89	0.60
34:BA:1522:U:H2'	34:BA:1523:G:C8	2.36	0.60
34:BA:174:C:H2'	34:BA:175:C:C6	2.37	0.60
34:BA:232:G:O2'	34:BA:233:C:H5'	2.02	0.60
34:BA:274:A:H4'	34:BA:275:G:OP1	2.02	0.60
34:BA:527:G:N2	34:BA:528:C:C2	2.69	0.60
34:BA:418:C:H4'	34:BA:540:G:O4'	2.01	0.60
34:BA:59:A:C2	34:BA:331:G:N3	2.70	0.60
34:BA:643:C:H2'	34:BA:643:C:O2	2.01	0.60
34:BA:652:U:O4	34:BA:752:G:C2'	2.49	0.60
34:BA:764:C:H2'	34:BA:765:G:N9	2.15	0.60
35:BB:18:G:N2	35:BB:57:G:C2	2.70	0.60
37:BE:187:LEU:HA	37:BE:201:ILE:CB	2.31	0.60
37:BE:219:VAL:HA	37:BE:222:ILE:HG23	1.83	0.60
34:BA:421:U:N3	38:BF:127:ARG:NH1	2.49	0.60
38:BF:47:LEU:CD1	38:BF:83:ARG:NH2	2.59	0.60
39:BG:190:ASP:N	39:BG:193:ASP:OD2	2.31	0.60
40:BH:9:LYS:O	40:BH:32:VAL:HG13	2.01	0.60
42:BJ:105:VAL:O	42:BJ:109:ASN:ND2	2.34	0.60
42:BJ:111:ARG:CZ	42:BJ:122:HIS:HB2	2.32	0.60
42:BJ:94:ARG:CZ	42:BJ:98:SER:OG	2.50	0.60
43:BK:63:LEU:CG	43:BK:65:TYR:OH	2.50	0.60
44:BL:104:ARG:O	44:BL:105:ASP:CB	2.50	0.60
46:BN:85:ARG:HE	46:BN:111:ASP:HB3	1.65	0.60
46:BN:95:ILE:CG2	46:BN:98:LEU:HD12	2.31	0.60
50:BR:9:GLN:HA	50:BR:9:GLN:OE1	2.02	0.60
51:BS:61:SER:OG	51:BS:62:VAL:HG22	2.01	0.60
52:BT:22:LEU:HD12	52:BT:23:VAL:N	2.16	0.60
25:A1:18:LEU:O	25:A1:21:ALA:CB	2.44	0.60
25:A1:22:LYS:N	25:A1:24:PHE:CE2	2.69	0.60
25:A1:31:GLN:O	25:A1:35:ALA:CB	2.50	0.60
26:A2:2:PHE:C	26:A2:44:GLN:OE1	2.40	0.60
26:A2:33:VAL:O	26:A2:63:HIS:ND1	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:A3:14:ARG:HG3	27:A3:14:ARG:NH1	2.15	0.60
28:A4:17:GLN:HA	28:A4:33:VAL:CG1	2.31	0.60
32:A8:26:LYS:CB	32:A8:44:LYS:HA	2.31	0.60
2:AA:1029:A:H2'	2:AA:1030:G:O5'	2.01	0.60
2:AA:12:U:H5''	2:AA:13:A:OP2	2.02	0.60
2:AA:1444:G:H3'	2:AA:1445:C:H41	1.67	0.60
2:AA:1603:A:H2'	2:AA:1604:C:C6	2.36	0.60
2:AA:1655:A:H5''	5:AE:211:GLN:HA	1.84	0.60
2:AA:1666:G:C6	2:AA:1667:G:N2	2.69	0.60
2:AA:175:G:C2	2:AA:176:G:C8	2.90	0.60
2:AA:1759:A:C2	2:AA:1760:A:C4	2.89	0.60
2:AA:1926:U:H3'	2:AA:1926:U:C6	2.37	0.60
2:AA:1992:G:O6	2:AA:1997:G:C4	2.53	0.60
2:AA:2007:C:H2'	2:AA:2008:C:C5'	2.30	0.60
2:AA:2132:U:O2	2:AA:2134:A:OP2	2.19	0.60
2:AA:2339:G:H2'	2:AA:2340:G:C8	2.35	0.60
2:AA:2462:U:C4	2:AA:2463:C:N4	2.69	0.60
2:AA:2482:G:C5	2:AA:2483:C:C6	2.90	0.60
2:AA:2680:C:C5'	5:AE:302:GLY:CA	2.80	0.60
2:AA:2686:G:C5	2:AA:2687:U:C5	2.90	0.60
2:AA:2701:C:N3	2:AA:2707:G:C6	2.70	0.60
2:AA:2714:G:H2'	2:AA:2715:C:H5'	1.84	0.60
2:AA:2731:G:N2	2:AA:2732:G:C2	2.70	0.60
2:AA:273:G:C5	2:AA:273(A):G:N7	2.70	0.60
2:AA:481:G:H22	2:AA:507:A:H1'	1.67	0.60
2:AA:598:G:H21	6:AF:33:LYS:HE3	1.67	0.60
2:AA:612:G:C4'	2:AA:616:A:H61	2.02	0.60
2:AA:735:A:N6	2:AA:736:C:C2	2.70	0.60
2:AA:828:U:O2'	2:AA:829:A:O4'	2.18	0.60
2:AA:837:C:H42	2:AA:942:G:H1	1.48	0.60
2:AA:920:G:O2'	2:AA:921:G:C5'	2.44	0.60
2:AA:945:A:N3	2:AA:945:A:C2'	2.60	0.60
3:AC:110:PHE:CD1	3:AC:113:VAL:HG23	2.36	0.60
3:AC:61:THR:HA	3:AC:162:GLU:HA	1.81	0.60
3:AC:69:GLY:C	3:AC:71:GLN:H	2.05	0.60
5:AE:105:HIS:H	5:AE:108:LEU:HD12	1.66	0.60
5:AE:222:ARG:NE	5:AE:233:ARG:N	2.49	0.60
5:AE:85:ALA:HB3	5:AE:87:GLU:CD	2.21	0.60
6:AF:159:ALA:O	6:AF:160:LEU:HD23	2.02	0.60
6:AF:197:SER:CB	6:AF:215:ALA:HB2	2.31	0.60
7:AG:22:VAL:C	7:AG:24:HIS:CE1	2.76	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:118:LEU:HB2	9:AJ:125:VAL:HG21	1.83	0.60
9:AI:20:GLU:HG3	9:AJ:49:ALA:HB3	1.84	0.60
2:AA:1082:U:C1'	11:AL:118:ALA:HB2	2.32	0.60
12:AM:81:ARG:O	12:AM:82:THR:C	2.37	0.60
12:AM:84:ARG:CA	12:AM:87:LEU:CD1	2.80	0.60
13:AN:19:VAL:CG1	13:AN:42:THR:O	2.39	0.60
13:AN:64:ARG:HH22	13:AN:100:GLY:HA2	1.64	0.60
14:AO:51:PHE:HD1	14:AO:51:PHE:N	2.00	0.60
14:AO:55:GLN:HE21	14:AO:56:LYS:HD3	1.66	0.60
15:AP:135:ALA:O	15:AP:138:ARG:HB2	2.01	0.60
15:AP:45:GLN:HB2	15:AP:152:SER:C	2.22	0.60
16:AQ:17:ARG:NH2	16:AQ:106:LEU:CD2	2.64	0.60
18:AS:24:ILE:HG22	18:AS:35:ILE:CB	2.32	0.60
18:AS:37:ARG:HH22	29:A5:48:ASN:ND2	1.99	0.60
19:AT:18:MET:HA	19:AT:23:LYS:O	2.01	0.60
21:AV:174:PRO:O	21:AV:175:ARG:HG2	2.01	0.60
21:AV:42:ALA:O	21:AV:43:PHE:C	2.40	0.60
21:AV:58:GLY:O	21:AV:61:THR:HG23	2.02	0.60
22:AW:45:ARG:O	22:AW:46:ILE:C	2.37	0.60
34:BA:1280:A:N9	45:BM:41:PRO:HG3	2.16	0.60
34:BA:1331:G:C2'	34:BA:1332:A:OP2	2.50	0.60
34:BA:1419:G:C6	34:BA:1482:G:C6	2.90	0.60
34:BA:1419:G:O2'	34:BA:1420:C:C6	2.53	0.60
34:BA:204:U:C2'	34:BA:204:U:O2	2.50	0.60
34:BA:256:U:H2'	34:BA:257:G:O4'	2.02	0.60
34:BA:299:G:C2	34:BA:300:A:C6	2.89	0.60
34:BA:481:G:H2'	34:BA:483:C:N4	2.17	0.60
34:BA:517:G:N2	34:BA:533:A:OP2	2.35	0.60
34:BA:665:A:C2'	34:BA:725:G:H21	2.10	0.60
34:BA:838:G:N2	34:BA:849:C:C2	2.69	0.60
34:BA:932:C:H4'	42:BJ:4:ARG:HH22	1.64	0.60
35:BC:28:C:H2'	35:BC:29:A:H8	1.66	0.60
37:BE:150:SER:O	37:BE:151:GLY:C	2.39	0.60
37:BE:239:VAL:O	37:BE:240:GLN:HB2	2.02	0.60
38:BF:120:VAL:O	38:BF:124:ILE:HG13	2.01	0.60
38:BF:182:ILE:HG23	38:BF:202:ILE:O	2.02	0.60
38:BF:95:THR:C	38:BF:97:LYS:H	2.04	0.60
39:BG:93:PHE:O	39:BG:95:GLY:N	2.35	0.60
40:BH:26:PHE:C	40:BH:27:ARG:CG	2.70	0.60
41:BI:83:ASP:O	41:BI:85:VAL:N	2.34	0.60
42:BJ:77:SER:C	42:BJ:156:TRP:HZ3	2.05	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BK:92:ARG:HG2	43:BK:92:ARG:NH1	2.14	0.60
46:BN:15:ALA:C	46:BN:77:MET:SD	2.80	0.60
48:BP:108:ARG:NH1	48:BP:108:ARG:HA	2.07	0.60
48:BP:53:VAL:O	48:BP:54:VAL:C	2.40	0.60
48:BP:80:ARG:HG2	48:BP:81:LEU:H	1.67	0.60
52:BT:53:LEU:HD11	52:BT:85:VAL:HG11	1.81	0.60
41:BI:91:VAL:HG22	53:BU:72:ARG:HH12	1.60	0.60
54:BV:16:LEU:O	54:BV:19:VAL:CG1	2.50	0.60
54:BV:15:LEU:O	54:BV:18:LYS:N	2.35	0.60
55:BW:14:LYS:O	55:BW:16:HIS:N	2.35	0.60
34:BA:1235:U:OP1	56:BX:3:LYS:CD	2.49	0.60
10:AK:83:ALA:HB3	10:AK:147:GLU:CG	2.32	0.60
2:AA:1509:C:H5'	2:AA:1509:C:C6	2.37	0.60
35:BB:21:A:N6	35:BB:46:G:C2	2.70	0.60
1:AB:65:C:C5	1:AB:108:C:C4	2.89	0.60
24:A0:113:LEU:HD13	24:A0:114:VAL:H	1.67	0.60
26:A2:6:GLN:OE1	26:A2:10:LYS:CA	2.48	0.60
2:AA:1034:G:H5'	33:A9:18:ARG:CZ	2.30	0.60
2:AA:1045:A:O2'	2:AA:1047:G:O4'	2.18	0.60
2:AA:586:A:N6	2:AA:1254:A:C2	2.69	0.60
2:AA:1265:A:H2'	2:AA:1265:A:N3	2.17	0.60
2:AA:1268:A:H1'	2:AA:2013:A:H61	1.67	0.60
2:AA:133:C:O2'	2:AA:134:C:C5'	2.50	0.60
2:AA:1358:G:H3'	2:AA:1371:G:H1	1.67	0.60
2:AA:1388:G:C2	2:AA:1389:G:H1'	2.37	0.60
2:AA:143:C:H3'	2:AA:143:C:H6	1.66	0.60
2:AA:146:G:C2	2:AA:147:U:C1'	2.84	0.60
2:AA:1520:U:H2'	2:AA:1521:G:C5'	2.25	0.60
2:AA:1566:A:O2'	2:AA:1567:A:OP1	2.17	0.60
2:AA:1497:U:N3	2:AA:1577:C:H4'	2.17	0.60
2:AA:161:U:H5	2:AA:161:U:OP1	1.85	0.60
2:AA:1682:G:H2'	2:AA:1683:C:H6	1.67	0.60
2:AA:1787:A:N3	2:AA:1788:C:C5	2.70	0.60
2:AA:1858:G:C6	2:AA:1884:A:C2	2.89	0.60
2:AA:1927:A:H5''	2:AA:1928:A:OP2	2.02	0.60
2:AA:1935:G:H4'	2:AA:1937:A:C2	2.36	0.60
2:AA:205:G:H1'	2:AA:206:U:OP2	2.02	0.60
2:AA:2414:G:H2'	2:AA:2415:G:H8	1.67	0.60
2:AA:2526:G:H2'	2:AA:2527:C:O5'	2.01	0.60
2:AA:2603:G:C6	2:AA:2604:U:C5	2.90	0.60
2:AA:262:A:H2'	2:AA:263:C:C5'	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2691:C:C3'	2:AA:2691:C:C6	2.85	0.60
2:AA:2720:U:O4	2:AA:2872:G:C4	2.55	0.60
2:AA:273(B):C:C2	2:AA:363(D):G:N1	2.70	0.60
2:AA:2870:C:C2'	2:AA:2871:C:O5'	2.49	0.60
2:AA:296:C:H6	2:AA:338:G:H21	1.47	0.60
2:AA:308:G:H8	2:AA:308:G:O5'	1.85	0.60
2:AA:338:G:H8	20:AU:21:LYS:HD2	1.67	0.60
2:AA:365:C:N3	2:AA:366:C:C5	2.62	0.60
2:AA:479:A:O2'	2:AA:480:A:C5'	2.50	0.60
2:AA:483:A:C2	2:AA:484:C:C1'	2.85	0.60
2:AA:530:G:C3'	2:AA:530:G:P	2.88	0.60
2:AA:588:U:H2'	2:AA:589:C:H6	1.66	0.60
2:AA:637:A:O2'	2:AA:638:G:N3	2.35	0.60
2:AA:724:U:O2	2:AA:724:U:H2'	2.02	0.60
2:AA:728:G:C2	2:AA:730:C:O2	2.55	0.60
2:AA:777:A:C2	2:AA:778:G:C4	2.90	0.60
2:AA:946:G:N1	2:AA:971:C:N4	2.49	0.60
2:AA:964:C:O5'	2:AA:964:C:C6	2.48	0.60
3:AC:127:LEU:HB3	3:AC:131:LEU:HG	1.84	0.60
3:AC:59:ARG:CZ	3:AC:164:ARG:NH1	2.65	0.60
3:AC:53:ARG:HB3	3:AC:55:ASP:OD2	2.02	0.60
4:AD:210:LYS:O	4:AD:211:HIS:C	2.40	0.60
6:AF:140:VAL:HB	6:AF:235:PHE:O	2.02	0.60
6:AF:240:LEU:O	6:AF:243:VAL:N	2.35	0.60
6:AF:90:HIS:H	6:AF:91:PRO:CD	2.14	0.60
7:AG:29:HIS:HB3	7:AG:69:ILE:HG12	1.84	0.60
2:AA:2306:C:C4	7:AG:53:LYS:NZ	2.70	0.60
9:AI:110:GLU:HA	9:AI:113:GLU:OE1	2.02	0.60
9:AJ:64:LYS:HD3	9:AJ:126:GLU:CD	2.22	0.60
11:AL:96:ILE:HG22	11:AL:96:ILE:O	2.02	0.60
12:AM:38:VAL:O	12:AM:103:VAL:CA	2.48	0.60
12:AM:53:ILE:HG22	12:AM:54:VAL:H	1.67	0.60
12:AM:78:ILE:HG22	12:AM:79:PHE:CD1	2.37	0.60
13:AN:1:MET:C	13:AN:2:ILE:HD12	2.22	0.60
14:AO:71:GLU:O	14:AO:74:THR:OG1	2.15	0.60
14:AO:75:LEU:O	14:AO:77:ALA:N	2.35	0.60
15:AP:87:LYS:HZ3	15:AP:115:SER:HA	1.66	0.60
15:AP:51:GLU:HA	15:AP:118:ALA:CA	2.31	0.60
18:AS:21:VAL:CG2	18:AS:22:ASP:N	2.64	0.60
2:AA:1598:C:C5'	19:AT:34:LYS:HB2	2.32	0.60
20:AU:48:VAL:HG12	20:AU:49:GLU:N	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AU:28:SER:HB3	20:AU:99:THR:CG2	2.31	0.60
21:AV:35:ASP:OD1	21:AV:35:ASP:O	2.20	0.60
21:AV:40:ASP:CB	21:AV:41:ARG:NH2	2.65	0.60
22:AW:29:ASN:O	22:AW:34:GLN:OE1	2.20	0.60
2:AA:95:G:C5'	22:AW:41:GLU:OE1	2.50	0.60
22:AW:46:ILE:N	22:AW:46:ILE:HD13	2.16	0.60
34:BA:1125:U:C5'	34:BA:1126:U:H5	2.15	0.60
34:BA:1234:C:H4'	34:BA:1364:U:H1'	1.84	0.60
34:BA:1269:A:C8	34:BA:1270:C:H1'	2.37	0.60
34:BA:129(A):G:N2	34:BA:190(G):G:N7	2.49	0.60
34:BA:937:A:N6	34:BA:1345:U:O4	2.29	0.60
34:BA:815:A:C4	34:BA:1529:G:C5	2.90	0.60
34:BA:16:A:C2	34:BA:17:U:O4'	2.55	0.60
34:BA:190(K):G:H2'	34:BA:190(L):U:H6	1.65	0.60
34:BA:237:C:P	52:BT:40:LYS:NZ	2.75	0.60
34:BA:123:C:O2'	34:BA:290:C:H1'	2.02	0.60
34:BA:327:A:C5	34:BA:329:A:C5	2.90	0.60
34:BA:359:U:C2'	34:BA:360:A:O5'	2.50	0.60
34:BA:486:U:C2'	34:BA:487:A:O5'	2.50	0.60
34:BA:527:G:C2	34:BA:528:C:C2	2.90	0.60
34:BA:609:A:N3	34:BA:610:G:H1'	2.17	0.60
34:BA:74:C:O2'	34:BA:75:G:H5'	2.01	0.60
34:BA:909:A:C2'	34:BA:910:C:C5'	2.75	0.60
34:BA:947:G:N2	34:BA:948:C:C2	2.70	0.60
35:BC:14:A:C2	35:BC:22:G:N3	2.70	0.60
38:BF:73:PRO:HG2	38:BF:74:GLY:N	2.16	0.60
39:BG:22:LYS:CB	39:BG:26:CYS:HB2	2.29	0.60
39:BG:9:CYS:O	39:BG:32:ALA:CB	2.50	0.60
40:BH:118:ILE:HG22	40:BH:119:LEU:H	1.67	0.60
40:BH:77:PRO:CG	40:BH:78:HIS:HD2	2.13	0.60
41:BI:3:ARG:C	41:BI:4:TYR:CD2	2.75	0.60
41:BI:6:VAL:CG1	41:BI:63:TYR:HB2	2.32	0.60
41:BI:75:LEU:HD11	41:BI:79:LEU:HD21	1.84	0.60
42:BJ:111:ARG:HB3	42:BJ:111:ARG:NH1	2.12	0.60
42:BJ:146:GLU:HG2	42:BJ:149:ARG:HE	1.65	0.60
42:BJ:38:LEU:CA	42:BJ:41:ARG:HG3	2.27	0.60
46:BN:88:GLY:O	46:BN:91:ARG:N	2.28	0.60
49:BQ:26:ARG:HD2	49:BQ:47:LEU:HD11	1.84	0.60
50:BR:9:GLN:O	50:BR:10:LYS:C	2.41	0.60
34:BA:582:U:H1'	52:BT:105:ALA:CA	2.31	0.60
52:BT:59:ILE:HD12	52:BT:73:VAL:CA	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BU:41:LYS:O	53:BU:44:LEU:CD2	2.50	0.60
41:BI:89:MET:HE3	53:BU:76:LEU:HD21	1.82	0.60
55:BW:65:LYS:O	55:BW:68:LYS:CG	2.50	0.60
55:BW:66:ALA:O	55:BW:67:ALA:C	2.39	0.60
9:AI:16:SER:CB	9:AJ:105:GLY:HA3	2.31	0.60
14:AO:101:ASP:O	14:AO:102:ASP:OD1	2.19	0.60
24:A0:77:ARG:HB2	24:A0:77:ARG:HH11	1.63	0.59
25:A1:95:LEU:O	25:A1:106:PHE:CE1	2.55	0.59
25:A1:50:ARG:NH2	26:A2:74:TYR:HA	2.17	0.59
27:A3:28:GLY:H	27:A3:60:PHE:CB	2.15	0.59
27:A3:40:GLN:CA	27:A3:69:PHE:HE1	2.15	0.59
28:A4:16:TYR:O	28:A4:17:GLN:CG	2.40	0.59
28:A4:48:ARG:CG	28:A4:49:PHE:CD1	2.84	0.59
28:A4:48:ARG:O	28:A4:51:ASP:O	2.20	0.59
18:AS:19:LEU:CG	29:A5:25:LEU:HG	2.32	0.59
30:A6:8:ILE:HD13	30:A6:29:ARG:NE	2.16	0.59
32:A8:62:LEU:HB2	32:A8:63:PRO:CD	2.26	0.59
2:AA:1029:A:H8	2:AA:1029:A:O5'	1.85	0.59
2:AA:1077:A:H2'	2:AA:1078:U:O4'	2.02	0.59
2:AA:142(A):A:OP2	2:AA:1143:A:H8	1.83	0.59
2:AA:998:C:N4	2:AA:1157:G:H1	2.00	0.59
2:AA:1457:A:C2	2:AA:2703:C:N4	2.70	0.59
2:AA:1494:A:C4	2:AA:1494:A:H3'	2.37	0.59
2:AA:1528:A:H2'	2:AA:1529:A:H4'	1.83	0.59
2:AA:1530:G:C4	2:AA:1542:G:N7	2.69	0.59
2:AA:1568:G:H5''	4:AD:60:GLN:CG	2.32	0.59
2:AA:1583:A:OP1	2:AA:1586:A:H5'	2.01	0.59
2:AA:1655:A:H2'	2:AA:1656:C:H6	1.65	0.59
2:AA:1695:G:C2'	2:AA:1696:G:C5'	2.62	0.59
2:AA:1775:U:C2'	2:AA:1776:G:H5'	2.32	0.59
2:AA:177:G:N3	2:AA:177:G:H2'	2.16	0.59
2:AA:1880:C:O2	2:AA:1880:C:C2'	2.50	0.59
2:AA:1894:C:O2'	2:AA:1895:C:O5'	2.19	0.59
2:AA:1903:G:C4	2:AA:1904:G:N7	2.70	0.59
2:AA:1655:A:N6	2:AA:2005:A:O2'	2.34	0.59
2:AA:221:A:H3'	2:AA:221:A:H8	1.66	0.59
2:AA:2079:U:O4	2:AA:2241:A:N1	2.35	0.59
2:AA:2305:A:N1	2:AA:2312:U:H1'	2.17	0.59
2:AA:2468:G:HO2'	2:AA:2469:A:H8	1.41	0.59
2:AA:2485:G:O2'	2:AA:2486:G:C5'	2.44	0.59
2:AA:2519:U:C5'	2:AA:2520:C:OP1	2.45	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2526:G:C6	2:AA:2527:C:C5	2.89	0.59
2:AA:2549:G:O2'	2:AA:2550:G:H5'	2.00	0.59
2:AA:2589:A:H2'	2:AA:2590:A:H8	1.66	0.59
2:AA:2544:G:C5'	2:AA:2645:G:N7	2.44	0.59
2:AA:2691:C:H3'	2:AA:2691:C:C6	2.37	0.59
2:AA:2768:C:N3	2:AA:2769:C:C5	2.70	0.59
2:AA:2781:A:C5'	2:AA:2782:G:H5'	2.23	0.59
2:AA:562:U:O2	2:AA:572:A:C1'	2.50	0.59
2:AA:562:U:O2	2:AA:572:A:H1'	2.02	0.59
2:AA:648:G:C4	2:AA:649:G:C8	2.90	0.59
2:AA:734:A:O2'	2:AA:735:A:O5'	2.20	0.59
2:AA:685:A:C4	2:AA:774:A:N1	2.70	0.59
2:AA:791:C:O2'	2:AA:792:G:H5'	1.99	0.59
2:AA:861:A:H2'	2:AA:862:G:C5'	2.26	0.59
2:AA:895:U:O2	2:AA:896:A:N1	2.35	0.59
2:AA:919:G:HO2'	2:AA:920:G:H8	1.48	0.59
2:AA:969:U:C4	2:AA:970:C:C5	2.90	0.59
1:AB:114:G:H2'	1:AB:115:G:C8	2.36	0.59
3:AC:75:LEU:HD21	3:AC:103:ILE:HD11	1.84	0.59
3:AC:131:LEU:O	3:AC:133:PRO:HD2	2.02	0.59
3:AC:205:LYS:CG	3:AC:206:GLY:H	1.97	0.59
2:AA:2131:G:H3'	3:AC:5:LYS:C	2.21	0.59
4:AD:121:ALA:O	4:AD:122:ASP:HB3	2.02	0.59
4:AD:89:ASN:OD1	4:AD:199:ARG:NH2	2.32	0.59
4:AD:210:LYS:CG	4:AD:211:HIS:H	2.07	0.59
4:AD:80:ILE:HB	4:AD:82:TYR:HE1	1.63	0.59
4:AD:93:ILE:HB	4:AD:103:ILE:HG22	1.84	0.59
5:AE:177:ALA:O	5:AE:181:VAL:HB	2.02	0.59
2:AA:2784:C:H1'	5:AE:98:GLU:OE1	2.02	0.59
7:AG:103:ASN:HB3	7:AG:132:VAL:O	2.02	0.59
7:AG:14:ARG:HA	7:AG:137:PRO:HG3	1.83	0.59
11:AL:55:PRO:HD3	11:AL:73:PRO:CA	2.32	0.59
2:AA:1076:C:C2'	11:AL:91:GLU:HB3	2.28	0.59
12:AM:10:VAL:HG12	12:AM:12:VAL:CG2	2.32	0.59
13:AN:71:ARG:CG	13:AN:72:PRO:HD2	2.32	0.59
13:AN:87:ILE:CG2	13:AN:92:SER:N	2.64	0.59
15:AP:50:VAL:C	15:AP:118:ALA:HA	2.17	0.59
15:AP:73:GLN:O	21:AV:175:ARG:NH1	2.23	0.59
15:AP:82:LYS:HB2	15:AP:125:TRP:N	2.16	0.59
16:AQ:104:ILE:O	16:AQ:106:LEU:N	2.34	0.59
16:AQ:32:PRO:HG2	16:AQ:100:ALA:HB1	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AT:20:PHE:O	19:AT:22:ASN:OD1	2.19	0.59
20:AU:103:LEU:HA	20:AU:108:ARG:HB2	1.84	0.59
23:AX:12:PRO:O	23:AX:15:TYR:N	2.35	0.59
36:B1:59:A:H3'	36:B1:59:A:C8	2.35	0.59
34:BA:132:C:C2	34:BA:230:G:N2	2.66	0.59
34:BA:160:A:C1'	34:BA:344:A:N7	2.65	0.59
34:BA:339:C:H2'	34:BA:340:U:O5'	2.01	0.59
34:BA:414:A:C4	34:BA:415:A:C8	2.90	0.59
34:BA:410:G:N2	34:BA:429:U:H3	1.99	0.59
34:BA:701:C:H5'	34:BA:703:G:O5'	2.01	0.59
34:BA:703:G:O5'	34:BA:703:G:C8	2.55	0.59
34:BA:7:G:H21	40:BH:121:LYS:HG2	1.65	0.59
34:BA:841:U:H3	37:BE:37:ASN:ND2	1.99	0.59
34:BA:8:A:N7	39:BG:208:SER:O	2.34	0.59
34:BA:995:C:OP2	34:BA:995:C:H6	1.85	0.59
37:BE:144:ARG:HD2	37:BE:148:TYR:OH	2.02	0.59
37:BE:69:LEU:HB3	37:BE:162:ILE:CG2	2.27	0.59
37:BE:78:GLN:O	37:BE:94:ASN:ND2	2.35	0.59
38:BF:134:ILE:CG2	38:BF:151:VAL:HB	2.31	0.59
39:BG:155:LEU:N	39:BG:155:LEU:HD23	2.17	0.59
39:BG:20:TYR:HD1	39:BG:21:LEU:H	1.50	0.59
42:BJ:22:LEU:O	42:BJ:25:ALA:HB3	2.02	0.59
43:BK:24:THR:O	43:BK:24:THR:CG2	2.49	0.59
44:BL:6:GLY:HA2	44:BL:83:ARG:HG2	1.83	0.59
47:BO:102:ARG:HE	47:BO:109:GLY:CA	2.16	0.59
47:BO:60:LEU:HD22	47:BO:64:TYR:O	2.02	0.59
48:BP:10:PRO:HB2	48:BP:18:ALA:CA	2.31	0.59
50:BR:75:PRO:O	50:BR:79:ARG:HG3	2.02	0.59
51:BS:23:ASP:OD1	51:BS:25:ARG:HG3	2.02	0.59
52:BT:8:GLY:HA3	52:BT:22:LEU:O	2.02	0.59
55:BW:16:HIS:O	55:BW:19:SER:HB3	2.02	0.59
56:BX:6:ARG:C	56:BX:8:THR:H	2.05	0.59
35:BB:29:A:C2	35:BB:30:G:N9	2.69	0.59
10:AK:114:LYS:HD2	10:AK:132:LYS:O	2.02	0.59
9:AI:14:THR:CB	9:AJ:105:GLY:O	2.49	0.59
9:AI:14:THR:OG1	9:AJ:105:GLY:O	2.19	0.59
10:AK:62:LEU:C	10:AK:66:LYS:HE2	2.22	0.59
24:A0:82:GLU:C	24:A0:83:ILE:HD13	2.21	0.59
25:A1:28:ARG:HH11	25:A1:28:ARG:HG2	1.67	0.59
2:AA:2396:G:O2'	28:A4:27:THR:CG2	2.50	0.59
31:A7:34:ARG:HD2	31:A7:42:LEU:CD2	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:A7:21:ARG:NH2	31:A7:43:THR:N	2.49	0.59
2:AA:83:G:O6	2:AA:102:G:C4	2.55	0.59
2:AA:1059:G:OP2	2:AA:1061:U:O4	2.20	0.59
2:AA:1262:A:H2	29:A5:10:LYS:CE	2.02	0.59
2:AA:1270:C:H5''	2:AA:1271:G:P	2.41	0.59
2:AA:126:A:C8	2:AA:127:A:C4	2.90	0.59
2:AA:1365:A:C4	2:AA:1366:A:N7	2.70	0.59
2:AA:1492:G:O4'	4:AD:97:ASP:OD1	2.21	0.59
2:AA:1493:C:N4	2:AA:1500:G:C2	2.64	0.59
2:AA:1605:C:C5	2:AA:1606:G:C5	2.90	0.59
2:AA:1689:A:N1	2:AA:1700:A:C2	2.71	0.59
2:AA:1717:G:C6	2:AA:1742:C:O2	2.54	0.59
2:AA:1809:A:H3'	2:AA:1810:A:C2	2.37	0.59
2:AA:1857:G:H3'	2:AA:1857:G:C8	2.37	0.59
2:AA:1971:A:H3'	2:AA:1971:A:H8	1.67	0.59
2:AA:1998:G:C6	2:AA:1999:C:C5	2.90	0.59
2:AA:2005:A:H5''	2:AA:2006:C:OP2	2.00	0.59
2:AA:202:U:H2'	2:AA:203:C:O4'	2.02	0.59
2:AA:529:A:N6	2:AA:2042:A:H2	1.96	0.59
2:AA:2058:A:N3	2:AA:2059:A:C8	2.70	0.59
2:AA:2082:A:C2	2:AA:2083:G:C4	2.90	0.59
2:AA:2091:U:H6	2:AA:2091:U:O5'	1.85	0.59
2:AA:2107:C:O5'	2:AA:2107:C:C6	2.55	0.59
2:AA:2219:G:C2'	2:AA:2224:G:C5'	2.72	0.59
2:AA:2333:A:H1'	2:AA:2335:A:C4	2.37	0.59
2:AA:2385:C:N3	2:AA:2386:C:C5	2.69	0.59
2:AA:2414:G:O5'	2:AA:2414:G:H8	1.85	0.59
2:AA:2415:G:H21	2:AA:2416:C:H1'	1.67	0.59
2:AA:2527:C:OP1	33:A9:30:VAL:CG1	2.48	0.59
2:AA:2690:C:H41	24:A0:14:SER:CB	2.11	0.59
2:AA:2721:A:H2'	2:AA:2722:G:H8	1.66	0.59
2:AA:2738:A:N6	2:AA:2767:C:N4	2.49	0.59
2:AA:2816:C:OP1	24:A0:99:LYS:NZ	2.35	0.59
2:AA:2840:C:O2'	2:AA:2841:C:H5'	2.01	0.59
2:AA:2859:G:H2'	2:AA:2860:A:O4'	2.01	0.59
2:AA:2870:C:O2'	2:AA:2871:C:O5'	2.19	0.59
2:AA:480:A:H2'	2:AA:481:G:OP1	2.01	0.59
2:AA:510:C:C6	2:AA:512:G:N2	2.70	0.59
2:AA:690:G:O2'	2:AA:780:G:OP1	2.19	0.59
2:AA:721:C:N4	2:AA:722:A:N6	2.49	0.59
2:AA:776:G:C4	2:AA:793:A:C5	2.89	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:828:U:H2'	2:AA:829:A:N9	2.14	0.59
2:AA:979:G:H22	2:AA:985:C:N4	1.99	0.59
3:AC:93:TYR:CD2	3:AC:110:PHE:HB3	2.36	0.59
3:AC:41:VAL:HG13	3:AC:215:THR:O	2.02	0.59
3:AC:36:LYS:NZ	3:AC:36:LYS:HA	2.12	0.59
6:AF:40:ALA:HB1	6:AF:100:LEU:HB2	1.84	0.59
7:AG:97:GLN:OE1	7:AG:106:PHE:HE2	1.84	0.59
8:AH:95:ALA:O	8:AH:127:GLN:HA	2.01	0.59
8:AH:85:ALA:CA	8:AH:131:ILE:HG22	2.23	0.59
9:AI:73:VAL:HG22	9:AI:122:GLY:N	2.17	0.59
9:AJ:80:ILE:CG2	9:AJ:103:LYS:HD2	2.22	0.59
10:AK:46:ALA:O	10:AK:49:ALA:HB3	2.03	0.59
2:AA:1079:C:O2'	11:AL:129:GLU:OE1	2.20	0.59
12:AM:83:ILE:O	12:AM:84:ARG:C	2.40	0.59
13:AN:73:ASP:O	13:AN:75:SER:N	2.35	0.59
13:AN:86:ILE:O	13:AN:93:PRO:HA	2.02	0.59
14:AO:67:ARG:HD3	14:AO:111:ALA:O	2.02	0.59
15:AP:59:ASN:N	15:AP:59:ASN:ND2	2.47	0.59
15:AP:66:ASN:C	15:AP:70:ARG:CZ	2.70	0.59
18:AS:25:ARG:CG	18:AS:26:GLY:H	2.15	0.59
19:AT:11:THR:O	19:AT:14:ALA:N	2.36	0.59
21:AV:118:HIS:O	21:AV:119:ASN:CB	2.50	0.59
19:AT:3:ASP:HA	22:AW:24:LYS:HD2	1.83	0.59
34:BA:964:A:OP1	34:BA:1199:U:OP1	2.19	0.59
34:BA:129(A):G:H2'	34:BA:190(E):U:C5	2.37	0.59
34:BA:1308:U:H5'	48:BP:110:ARG:HH22	1.67	0.59
34:BA:1321:C:C4	34:BA:1322:C:N3	2.70	0.59
34:BA:1358:U:OP2	34:BA:1359:C:H5	1.85	0.59
34:BA:148:G:N2	34:BA:175:C:C4	2.70	0.59
34:BA:1490:C:C2'	34:BA:1491:G:O5'	2.50	0.59
34:BA:1515:C:O2'	34:BA:1516:G:O5'	2.19	0.59
34:BA:174:C:C2	34:BA:175:C:C5	2.91	0.59
34:BA:187:C:O2'	34:BA:188:C:H5'	2.02	0.59
34:BA:1324:A:O4'	34:BA:361(A):C:H4'	2.02	0.59
34:BA:422:C:O4'	34:BA:423:G:C2	2.54	0.59
34:BA:453:A:H2'	34:BA:454:C:C6	2.37	0.59
34:BA:49:U:C5	34:BA:364:A:N6	2.69	0.59
34:BA:556:C:O2'	34:BA:557:G:H5'	2.02	0.59
34:BA:590:C:H5''	43:BK:30:ARG:HG3	1.83	0.59
34:BA:597:G:C2'	34:BA:598:U:H5'	2.31	0.59
35:BC:57:G:H2'	35:BC:58:A:H5'	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BC:4:G:N2	35:BC:70:C:H1'	2.17	0.59
39:BG:107:ARG:CA	39:BG:107:ARG:HH11	2.06	0.59
39:BG:128:VAL:CG2	39:BG:133:VAL:HG23	2.25	0.59
39:BG:61:LYS:N	39:BG:203:VAL:HG22	2.17	0.59
39:BG:63:LYS:CG	39:BG:64:LEU:H	2.15	0.59
40:BH:150:ARG:HD3	40:BH:150:ARG:O	2.02	0.59
41:BI:40:VAL:HA	41:BI:63:TYR:HD1	1.66	0.59
42:BJ:64:GLN:CG	42:BJ:128:ALA:HB1	2.32	0.59
45:BM:24:VAL:O	45:BM:34:VAL:HG21	2.02	0.59
46:BN:42:TRP:HE3	46:BN:43:SER:CA	2.14	0.59
46:BN:64:ALA:O	46:BN:66:LEU:N	2.35	0.59
46:BN:85:ARG:NH1	46:BN:85:ARG:HG3	2.16	0.59
49:BQ:29:ARG:HB3	49:BQ:40:CYS:CB	2.32	0.59
55:BW:29:LYS:O	55:BW:30:LYS:C	2.36	0.59
56:BX:20:LYS:CG	56:BX:21:TYR:N	2.64	0.59
41:BI:36:ARG:HH11	41:BI:36:ARG:CB	2.15	0.59
8:AH:167:LEU:HD23	8:AH:167:LEU:H	1.67	0.59
36:B1:15:A:N1	36:B1:41:U:C2	2.70	0.59
18:AS:3:ALA:HB2	18:AS:62:HIS:HD1	1.67	0.59
2:AA:1963:U:C2'	2:AA:1963:U:O2	2.51	0.59
25:A1:113:SER:O	25:A1:116:ALA:CB	2.50	0.59
26:A2:20:ILE:CG1	26:A2:67:LYS:NZ	2.64	0.59
26:A2:68:LYS:HG2	26:A2:69:ILE:HD11	1.85	0.59
18:AS:19:LEU:HD13	29:A5:25:LEU:HD23	1.83	0.59
2:AA:1011:G:O2'	2:AA:1013:C:O4'	2.16	0.59
2:AA:1063:G:N2	2:AA:1075:C:C2	2.71	0.59
2:AA:10:G:N2	2:AA:2629:A:N3	2.50	0.59
2:AA:1181:C:H2'	2:AA:1182:A:H8	1.68	0.59
2:AA:1189:A:N6	2:AA:1190:G:N3	2.50	0.59
2:AA:1199:U:C2	2:AA:1200:C:C6	2.90	0.59
2:AA:1239:G:O2'	2:AA:1240:U:O4'	2.20	0.59
2:AA:1241:A:C8	2:AA:1241:A:OP2	2.55	0.59
2:AA:1260:G:C2'	2:AA:1261:C:H5'	2.30	0.59
2:AA:1471:A:N6	2:AA:1519:G:H22	1.93	0.59
2:AA:1548:C:H2'	2:AA:1549:C:H6	1.67	0.59
2:AA:1649:G:C6	2:AA:2009:G:N1	2.70	0.59
2:AA:1683:C:N3	2:AA:1684:C:C4	2.70	0.59
2:AA:1763:G:C2'	2:AA:1764:G:O5'	2.49	0.59
2:AA:1809:A:H3'	2:AA:1810:A:C4	2.36	0.59
2:AA:1982:C:N3	2:AA:1983:C:C5	2.71	0.59
2:AA:2053:G:C2	2:AA:2054:A:C8	2.89	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2151:G:C2	2:AA:2152:G:N3	2.70	0.59
2:AA:2097:C:N4	2:AA:2193:G:O6	2.36	0.59
2:AA:2219:G:OP1	4:AD:184:LEU:HD21	2.02	0.59
2:AA:2261:C:O4'	2:AA:2388:A:H1'	2.02	0.59
2:AA:2259:G:H5'	2:AA:2427:C:H3'	1.85	0.59
2:AA:2468:G:C6	2:AA:2481:G:C6	2.90	0.59
2:AA:2822:G:OP1	5:AE:207:GLY:CA	2.51	0.59
2:AA:2826:A:C5	2:AA:2827:C:C6	2.90	0.59
2:AA:294:A:H3'	2:AA:294:A:C8	2.38	0.59
2:AA:470:A:H2'	2:AA:471:A:O4'	2.02	0.59
2:AA:59:U:H3'	2:AA:60:G:C5'	2.32	0.59
2:AA:67:U:C2	2:AA:68:G:N7	2.70	0.59
2:AA:900:A:N7	2:AA:901:A:C8	2.69	0.59
2:AA:901:A:C5	2:AA:902:C:C4	2.90	0.59
2:AA:960:A:N3	2:AA:962:G:O4'	2.35	0.59
1:AB:71:C:O2	1:AB:72:G:O4'	2.21	0.59
1:AB:75:G:O2'	1:AB:76:G:H5'	2.01	0.59
2:AA:1861:G:C4'	3:AC:205:LYS:NZ	2.64	0.59
3:AC:49:ILE:CG1	3:AC:50:ASP:H	2.15	0.59
3:AC:49:ILE:HG13	3:AC:50:ASP:H	1.65	0.59
3:AC:62:VAL:HB	3:AC:163:PHE:HE2	1.67	0.59
4:AD:122:ASP:C	4:AD:124:LYS:N	2.46	0.59
2:AA:1819:A:C4	4:AD:177:SER:HB3	2.37	0.59
4:AD:70:LYS:NZ	4:AD:70:LYS:HB3	2.16	0.59
5:AE:225:LYS:CA	5:AE:228:ARG:HH12	2.15	0.59
5:AE:263:GLU:O	5:AE:266:LYS:NZ	2.35	0.59
5:AE:269:ILE:CD1	5:AE:295:LEU:O	2.50	0.59
6:AF:194:PHE:HB2	6:AF:211:ASP:OD2	2.01	0.59
7:AG:53:LYS:HG3	7:AG:54:ALA:H	1.67	0.59
8:AH:104:LEU:HD13	8:AH:151:ARG:NH2	2.16	0.59
8:AH:117:GLU:HG2	8:AH:118:GLU:H	1.68	0.59
8:AH:151:ARG:HB2	8:AH:161:ILE:CD1	2.33	0.59
11:AL:101:THR:O	11:AL:105:ILE:HG13	2.01	0.59
11:AL:75:ALA:HA	11:AL:112:LYS:HZ2	1.65	0.59
11:AL:72:THR:CB	11:AL:115:ASP:HB3	2.32	0.59
12:AM:21:ARG:CD	12:AM:21:ARG:N	2.64	0.59
12:AM:45:VAL:CG1	12:AM:46:ILE:N	2.66	0.59
14:AO:131:GLU:O	14:AO:134:GLU:HB2	2.02	0.59
15:AP:45:GLN:CG	15:AP:125:TRP:HE1	2.12	0.59
2:AA:911:A:N6	15:AP:15:THR:C	2.56	0.59
15:AP:16:ARG:CB	15:AP:16:ARG:NH1	2.44	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:49:VAL:HG22	15:AP:119:ASN:C	2.21	0.59
15:AP:61:LEU:O	15:AP:62:GLU:C	2.41	0.59
15:AP:65:ARG:NH2	15:AP:87:LYS:HB2	2.17	0.59
16:AQ:97:VAL:C	16:AQ:98:GLU:HG2	2.21	0.59
18:AS:27:LYS:O	18:AS:71:VAL:HG22	2.02	0.59
20:AU:19:ARG:CZ	20:AU:68:ASP:HA	2.31	0.59
20:AU:92:ASP:O	20:AU:93:THR:C	2.41	0.59
21:AV:14:LEU:CG	21:AV:80:HIS:NE2	2.66	0.59
21:AV:5:ALA:CB	21:AV:13:LYS:NZ	2.65	0.59
21:AV:71:MET:O	21:AV:78:PRO:N	2.35	0.59
23:AX:12:PRO:HG3	23:AX:20:LYS:HZ3	1.67	0.59
34:BA:1258:G:H8	34:BA:1258:G:O5'	1.85	0.59
34:BA:1270:C:H4'	34:BA:1313:U:O2'	2.03	0.59
34:BA:1480:G:N1	34:BA:1481:U:O2	2.35	0.59
34:BA:1531:A:H2'	34:BA:1532:U:C5	2.35	0.59
34:BA:310:G:H2'	34:BA:311:C:C6	2.38	0.59
34:BA:450:G:OP1	34:BA:451:A:H3'	2.03	0.59
34:BA:52:G:H21	34:BA:53:A:H1'	1.67	0.59
34:BA:557:G:H3'	34:BA:558:G:C8	2.37	0.59
34:BA:693:G:H2'	34:BA:694:A:C8	2.37	0.59
34:BA:586:C:N4	34:BA:755:G:H1	2.00	0.59
34:BA:83:U:H2'	34:BA:84:U:C6	2.36	0.59
34:BA:889:A:H5'	34:BA:891:U:O4'	2.03	0.59
35:BB:34:G:H8	35:BB:34:G:C5'	2.13	0.59
34:BA:530:G:C8	35:BB:35:A:O4'	2.54	0.59
35:BB:52:U:C3'	35:BB:53:G:H5'	2.32	0.59
35:BC:58:A:H4'	35:BC:59:U:OP1	2.02	0.59
37:BE:46:LYS:HA	37:BE:49:GLU:OE1	2.02	0.59
37:BE:60:ASP:O	37:BE:63:MET:HG2	2.01	0.59
37:BE:75:LYS:HA	37:BE:78:GLN:CB	2.32	0.59
38:BF:182:ILE:HG23	38:BF:202:ILE:C	2.23	0.59
38:BF:23:TYR:HD2	38:BF:24:ALA:N	2.00	0.59
39:BG:11:LEU:HD23	39:BG:11:LEU:N	2.16	0.59
39:BG:133:VAL:HG11	39:BG:138:TYR:CB	2.30	0.59
39:BG:129:ASN:HD21	39:BG:144:ASP:CB	2.15	0.59
39:BG:25:ARG:C	39:BG:27:TYR:N	2.52	0.59
39:BG:39:PRO:HG2	39:BG:44:GLY:CA	2.31	0.59
42:BJ:121:ALA:HB1	42:BJ:125:MET:CE	2.32	0.59
43:BK:32:LYS:CG	43:BK:33:GLU:N	2.64	0.59
43:BK:32:LYS:O	43:BK:36:LEU:HD23	2.02	0.59
46:BN:67:ASP:HA	46:BN:70:LYS:CE	2.31	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:87:TYR:HA	48:BP:90:LEU:HD12	1.84	0.59
51:BS:81:ARG:HG2	51:BS:83:GLU:HG2	1.83	0.59
35:BB:9:A:C6	35:BB:45:G:C6	2.91	0.59
7:AG:152:PRO:O	7:AG:154:LYS:N	2.34	0.59
32:A8:5:LYS:HG3	32:A8:60:LEU:O	2.01	0.59
2:AA:1179:C:OP2	2:AA:1179:C:H6	1.84	0.59
2:AA:1324:G:N2	2:AA:1328:G:H22	2.00	0.59
2:AA:1478:G:H1	2:AA:1515:C:N4	2.00	0.59
2:AA:1553:A:N1	2:AA:1556:C:C5	2.70	0.59
2:AA:1615:C:C5	2:AA:1617:C:C5	2.91	0.59
2:AA:1784:A:H4'	2:AA:1785:A:C5'	2.31	0.59
2:AA:1957:C:O2'	2:AA:1985:G:C1'	2.51	0.59
2:AA:1964:G:O2'	2:AA:1965:C:P	2.60	0.59
2:AA:1990:C:O2	2:AA:1991:U:O2	2.20	0.59
2:AA:2021:C:O2	2:AA:2022:U:OP1	2.19	0.59
2:AA:2025:C:H2'	2:AA:2026:C:H6	1.65	0.59
2:AA:2320:A:N6	16:AQ:9:PRO:CG	2.64	0.59
2:AA:2456:C:N3	2:AA:2495:G:O6	2.35	0.59
2:AA:2575:C:H2'	5:AE:237:ASN:ND2	2.17	0.59
2:AA:2683:C:C5	2:AA:2684:U:C5	2.90	0.59
2:AA:2713:A:H3'	2:AA:2714:G:C5'	2.31	0.59
2:AA:270(X):G:H4'	2:AA:272:G:O3'	2.02	0.59
2:AA:2768:C:H2'	2:AA:2769:C:O5'	2.02	0.59
2:AA:37:C:C5'	2:AA:451:C:H5''	2.32	0.59
2:AA:405:U:H5''	2:AA:406:G:C5'	2.32	0.59
2:AA:451:C:N3	2:AA:453:C:C5	2.70	0.59
2:AA:452:G:N2	2:AA:458:G:N3	2.49	0.59
2:AA:508:G:H5''	2:AA:509:C:OP1	2.02	0.59
2:AA:541:C:C4	2:AA:542:C:N4	2.70	0.59
2:AA:602:G:H8	2:AA:602:G:O5'	1.84	0.59
2:AA:609:A:N7	2:AA:609(A):G:N7	2.50	0.59
2:AA:587:C:C6	2:AA:671:C:H1'	2.38	0.59
2:AA:764:A:N7	2:AA:1776:G:O2'	2.36	0.59
2:AA:798:G:H2'	2:AA:799:G:C8	2.36	0.59
2:AA:880:G:H2'	2:AA:881:G:C4'	2.31	0.59
2:AA:92:G:C2	2:AA:93:C:C4	2.90	0.59
2:AA:946:G:N2	2:AA:971:C:N3	2.48	0.59
2:AA:996:A:O2'	2:AA:997:G:O5'	2.21	0.59
2:AA:999:U:H2'	2:AA:1000:A:H5'	1.85	0.59
1:AB:70:C:C2	1:AB:106:G:N2	2.68	0.59
1:AB:37:C:N4	1:AB:48:A:O2'	2.21	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:48:A:H2'	1:AB:49:C:C6	2.37	0.59
3:AC:59:ARG:HH21	3:AC:140:PRO:HD2	1.67	0.59
5:AE:201:VAL:C	5:AE:262:THR:HG1	2.05	0.59
6:AF:22:PHE:CE2	6:AF:115:LEU:HB3	2.35	0.59
8:AH:117:GLU:OE1	8:AH:118:GLU:O	2.20	0.59
8:AH:45:GLU:N	8:AH:45:GLU:OE1	2.35	0.59
9:AI:57:THR:HG21	9:AJ:110:GLU:CG	2.32	0.59
11:AL:106:GLU:O	11:AL:109:ALA:HB3	2.02	0.59
12:AM:15:ARG:HH11	12:AM:43:ARG:CZ	2.14	0.59
2:AA:2674:G:H4'	13:AN:30:ARG:CG	2.32	0.59
14:AO:113:GLN:NE2	14:AO:115:ARG:HH12	2.00	0.59
15:AP:71:PHE:HD1	15:AP:71:PHE:H	1.48	0.59
16:AQ:40:ASN:O	16:AQ:42:HIS:N	2.36	0.59
17:AR:9:CYS:O	17:AR:11:THR:N	2.35	0.59
13:AN:76:TYR:HB2	17:AR:19:THR:OG1	2.03	0.59
20:AU:81:LYS:CG	20:AU:82:THR:H	2.12	0.59
21:AV:103:ARG:CZ	21:AV:137:ASP:CB	2.80	0.59
21:AV:117:VAL:HG11	21:AV:167:THR:HG21	1.83	0.59
21:AV:99:HIS:O	21:AV:137:ASP:OD2	2.21	0.59
21:AV:4:THR:HG22	21:AV:56:VAL:HG22	1.82	0.59
22:AW:27:LEU:HD21	22:AW:49:LEU:HB2	1.85	0.59
34:BA:116:A:O5'	34:BA:116:A:C8	2.55	0.59
34:BA:1285:A:O2'	34:BA:1286:A:OP2	2.18	0.59
34:BA:1374:A:C5	34:BA:1375:A:N7	2.71	0.59
34:BA:1380:U:O2'	34:BA:1381:U:H5''	2.02	0.59
34:BA:924:C:O2'	34:BA:1399:C:C6	2.55	0.59
34:BA:22:G:C2'	34:BA:23:C:H6	2.13	0.59
34:BA:474:G:O2'	34:BA:475:G:C5'	2.49	0.59
34:BA:499:A:O2'	34:BA:500:G:O4'	2.19	0.59
34:BA:562:C:O2'	47:BO:15:ARG:HD3	2.02	0.59
34:BA:690:G:H8	34:BA:690:G:O5'	1.86	0.59
34:BA:694:A:H5'	42:BJ:85:TYR:OH	2.02	0.59
34:BA:738:C:C4	34:BA:739:C:C5	2.90	0.59
34:BA:911:U:C2'	34:BA:912:C:H6	2.13	0.59
34:BA:936:C:C2'	34:BA:937:A:H5'	2.32	0.59
35:BC:32:C:C2'	35:BC:32:C:O2	2.48	0.59
35:BC:37:G:C2'	35:BC:38:A:C8	2.69	0.59
35:BC:15:G:N2	35:BC:48:C:H42	1.93	0.59
35:BC:60:C:OP1	35:BC:61:C:C5	2.54	0.59
37:BE:182:ILE:CG2	37:BE:183:PRO:HD2	2.32	0.59
39:BG:13:ARG:HD2	39:BG:38:TYR:O	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BG:20:TYR:N	39:BG:31:CYS:SG	2.74	0.59
40:BH:79:GLU:H	40:BH:79:GLU:CD	2.05	0.59
34:BA:737:A:OP1	41:BI:92:LYS:N	2.35	0.59
43:BK:126:LYS:CD	43:BK:127:LEU:N	2.54	0.59
34:BA:590:C:P	43:BK:29:SER:HG	2.24	0.59
43:BK:83:ILE:HB	43:BK:137:VAL:HG22	1.83	0.59
44:BL:16:ARG:HD3	44:BL:64:THR:HB	1.84	0.59
45:BM:15:THR:HG23	45:BM:16:LEU:HD23	1.83	0.59
46:BN:65:ALA:HB1	46:BN:98:LEU:CG	2.31	0.59
47:BO:100:ILE:HD13	47:BO:100:ILE:H	1.65	0.59
49:BQ:40:CYS:C	49:BQ:42:ILE:H	2.03	0.59
50:BR:69:TYR:O	50:BR:70:LEU:C	2.40	0.59
34:BA:761:G:C5'	52:BT:103:GLY:H	2.16	0.59
52:BT:7:THR:HG22	52:BT:8:GLY:N	2.15	0.59
35:BB:29:A:N1	35:BB:30:G:C5	2.70	0.59
36:B1:39:A:O2'	36:B1:40:C:H5'	2.02	0.59
2:AA:2246:G:C2'	2:AA:2247:A:H8	2.15	0.59
1:AB:66:A:C2	1:AB:108:C:C5	2.89	0.59
24:A0:61:HIS:ND1	24:A0:64:ARG:NE	2.50	0.59
25:A1:55:ARG:HG2	25:A1:58:ARG:NE	2.18	0.59
25:A1:62:ILE:O	25:A1:65:ILE:CB	2.46	0.59
25:A1:6:THR:O	25:A1:9:VAL:CB	2.51	0.59
26:A2:15:SER:HB2	26:A2:99:GLN:HE22	1.66	0.59
26:A2:34:GLU:HB3	26:A2:60:VAL:HG11	1.84	0.59
26:A2:87:ARG:CB	26:A2:87:ARG:HH11	2.14	0.59
27:A3:37:LEU:CD1	27:A3:71:ASN:ND2	2.65	0.59
28:A4:44:THR:O	28:A4:46:GLU:OE2	2.21	0.59
28:A4:48:ARG:CG	28:A4:71:SER:OG	2.49	0.59
2:AA:1022:G:N1	12:AM:47:THR:HG21	2.17	0.59
2:AA:101:G:H5'	2:AA:102:G:OP1	2.02	0.59
2:AA:1143:A:C2	2:AA:1144:G:C5	2.90	0.59
2:AA:1181:C:C2'	2:AA:1182:A:C8	2.84	0.59
2:AA:1182:A:O2'	2:AA:1183:G:O5'	2.19	0.59
2:AA:137(A):G:O6	2:AA:139:G:C5	2.56	0.59
2:AA:1428:C:N4	2:AA:1569:A:C8	2.71	0.59
2:AA:1447:G:H21	2:AA:1545:A:H2	1.44	0.59
2:AA:1472:A:N6	2:AA:1518:C:H42	2.00	0.59
2:AA:1558:A:H2	2:AA:1560:G:H1'	1.59	0.59
2:AA:1603:A:H2'	2:AA:1604:C:H6	1.67	0.59
2:AA:1657:C:C2'	2:AA:1658:C:H5'	2.32	0.59
2:AA:1729:A:C8	2:AA:1730:U:O4'	2.56	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1823:G:O2'	2:AA:1824:G:H5'	2.01	0.59
2:AA:1917:U:C6	2:AA:1917:U:O5'	2.56	0.59
2:AA:1939:U:H3'	2:AA:1939:U:OP2	2.02	0.59
2:AA:1996:C:O2	2:AA:1997:G:H4'	2.03	0.59
2:AA:222:A:C6	2:AA:224:G:C4	2.91	0.59
2:AA:2283:C:O2	2:AA:2283:C:H2'	2.03	0.59
2:AA:2330:G:H2'	2:AA:2331:G:O4'	2.02	0.59
2:AA:647:G:H5'	2:AA:2352:A:C5'	2.33	0.59
2:AA:2468:G:N1	2:AA:2481:G:C5	2.70	0.59
2:AA:2606:C:H2'	2:AA:2607:G:O5'	2.02	0.59
2:AA:2645:G:O4'	2:AA:2645:G:OP2	2.21	0.59
2:AA:2706:G:N1	2:AA:2707:G:N7	2.49	0.59
2:AA:2711:A:OP2	2:AA:2714:G:OP1	2.20	0.59
2:AA:2882:A:H2'	2:AA:2883:A:O5'	2.02	0.59
2:AA:408:G:C2'	2:AA:409:C:H5'	2.32	0.59
2:AA:481:G:N2	2:AA:507:A:C1'	2.63	0.59
2:AA:616:A:H2'	2:AA:617:G:H21	1.68	0.59
2:AA:685:A:N1	2:AA:774:A:C2	2.70	0.59
2:AA:746:A:HO2'	2:AA:747:U:P	2.26	0.59
2:AA:745:G:N2	2:AA:753:C:C4	2.71	0.59
2:AA:801:G:OP1	6:AF:54:LEU:O	2.20	0.59
1:AB:69:G:C2	1:AB:70:C:C6	2.91	0.59
3:AC:45:ALA:HB2	3:AC:212:VAL:HA	1.84	0.59
4:AD:75:GLY:O	4:AD:115:ILE:O	2.19	0.59
5:AE:214:VAL:HG13	5:AE:221:LYS:CD	2.28	0.59
5:AE:303:PRO:CB	5:AE:307:LEU:HD13	2.32	0.59
8:AH:123:GLU:N	8:AH:123:GLU:CD	2.55	0.59
9:AI:106:VAL:HG21	9:AI:114:ILE:CD1	2.32	0.59
11:AL:138:GLU:O	11:AL:140:VAL:HG23	2.02	0.59
15:AP:51:GLU:OE1	15:AP:51:GLU:N	2.34	0.59
18:AS:81:ALA:CB	18:AS:99:ARG:NH1	2.65	0.59
20:AU:31:LEU:HD13	20:AU:101:LEU:HB2	1.84	0.59
21:AV:116:VAL:HG23	21:AV:169:VAL:HG22	1.84	0.59
21:AV:62:PHE:CB	21:AV:85:MET:SD	2.91	0.59
34:BA:1003:G:N3	34:BA:1003:G:H2'	2.17	0.59
34:BA:1094:G:C2'	34:BA:1108:G:H22	2.13	0.59
34:BA:1267:C:C5	34:BA:1268:A:C5	2.91	0.59
34:BA:1280:A:O5'	34:BA:1281:U:OP2	2.20	0.59
34:BA:132:C:O2'	34:BA:133:U:C6	2.56	0.59
34:BA:922:G:N2	34:BA:1395:C:N3	2.40	0.59
34:BA:258:G:N3	34:BA:259:G:C8	2.70	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:320:C:O2	34:BA:321:A:H1'	2.03	0.59
34:BA:366:C:O2'	34:BA:367:U:P	2.61	0.59
34:BA:701:C:O2'	34:BA:702:A:P	2.60	0.59
34:BA:652:U:O4	34:BA:752:G:H2'	2.02	0.59
34:BA:755:G:N3	34:BA:755:G:H2'	2.16	0.59
34:BA:947:G:O2'	34:BA:948:C:H5'	2.02	0.59
34:BA:971:G:H2'	34:BA:1365:G:O2'	2.03	0.59
34:BA:975:A:H4'	34:BA:976:G:O5'	1.98	0.59
37:BE:193:ASP:HB2	37:BE:196:LEU:CD2	2.33	0.59
37:BE:22:LYS:NZ	37:BE:35:GLU:OE1	2.20	0.59
38:BF:112:SER:CB	38:BF:115:LEU:HD12	2.33	0.59
39:BG:18:LYS:HG3	39:BG:33:MET:HG3	1.83	0.59
39:BG:205:GLU:OE1	40:BH:100:VAL:HG23	2.02	0.59
40:BH:115:VAL:HG11	40:BH:118:ILE:HD11	1.85	0.59
40:BH:145:LYS:HA	40:BH:148:VAL:HG21	1.85	0.59
41:BI:49:ALA:O	53:BU:80:PRO:HB3	2.03	0.59
42:BJ:45:ASP:HB2	42:BJ:117:ALA:CB	2.32	0.59
42:BJ:27:ILE:HA	42:BJ:30:ILE:HD12	1.83	0.59
42:BJ:72:ARG:NH2	42:BJ:142:GLU:OE1	2.35	0.59
43:BK:114:THR:HG21	43:BK:129:VAL:CG1	2.31	0.59
43:BK:38:ILE:HG23	43:BK:41:ARG:HD2	1.85	0.59
43:BK:53:VAL:O	43:BK:56:LYS:HB2	2.02	0.59
44:BL:78:LYS:HE2	44:BL:79:LEU:HD22	1.83	0.59
46:BN:65:ALA:HB1	46:BN:98:LEU:HD23	1.84	0.59
47:BO:117:ARG:CB	47:BO:117:ARG:CZ	2.80	0.59
47:BO:54:LYS:O	47:BO:70:ILE:HG13	2.03	0.59
49:BQ:23:ARG:CA	49:BQ:33:VAL:HG21	2.31	0.59
50:BR:6:GLU:HG2	50:BR:7:GLU:H	1.66	0.59
50:BR:83:GLU:O	50:BR:84:LYS:C	2.41	0.59
52:BT:67:LYS:HA	52:BT:70:ARG:CZ	2.33	0.59
53:BU:29:PHE:CE1	53:BU:36:ASN:OD1	2.50	0.59
53:BU:55:ARG:CA	53:BU:55:ARG:NH1	2.64	0.59
55:BW:57:ARG:NH2	55:BW:100:ILE:CG2	2.65	0.59
34:BA:1325:C:H4'	56:BX:17:THR:HB	1.84	0.59
34:BA:1286:A:H2	56:BX:18:TYR:HH	1.50	0.59
10:AK:110:LEU:CG	10:AK:114:LYS:HZ1	2.14	0.59
37:BE:127:ILE:HG22	37:BE:128:GLU:N	2.18	0.59
15:AP:129:ASP:OD1	15:AP:131:ALA:HB3	2.03	0.59
24:A0:73:VAL:HG12	24:A0:77:ARG:CZ	2.31	0.59
25:A1:19:LYS:O	25:A1:20:ARG:C	2.38	0.59
25:A1:43:ALA:CB	26:A2:75:LYS:HB2	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A1:56:ASP:C	25:A1:60:LEU:HD12	2.23	0.59
26:A2:12:TYR:CZ	26:A2:14:VAL:HB	2.37	0.59
27:A3:37:LEU:CD1	27:A3:71:ASN:HD22	2.15	0.59
28:A4:55:ARG:O	28:A4:56:VAL:O	2.21	0.59
2:AA:372:G:H4'	28:A4:63:PHE:HE2	1.67	0.59
29:A5:8:LYS:O	29:A5:9:LYS:HG3	2.02	0.59
2:AA:1024:G:C5	2:AA:1025:G:C8	2.91	0.59
2:AA:1000:A:C8	2:AA:1154:G:N2	2.69	0.59
2:AA:1288:U:C5'	2:AA:1289:C:OP2	2.45	0.59
2:AA:128:C:N4	2:AA:129:C:N4	2.51	0.59
2:AA:1301:A:H62	2:AA:1303:G:C1'	2.13	0.59
2:AA:1375:C:C5	2:AA:1376:C:H5	2.21	0.59
2:AA:138:G:N7	19:AT:39:ASP:OD1	2.36	0.59
2:AA:1448:G:N3	2:AA:1449:A:N7	2.49	0.59
2:AA:1534:G:C2	2:AA:1538:G:N3	2.71	0.59
2:AA:1274:A:C8	2:AA:1646:C:C4	2.91	0.59
2:AA:1677:A:C2	2:AA:1678:G:N3	2.71	0.59
2:AA:1790:C:H3'	2:AA:1828:G:N2	2.17	0.59
2:AA:1834:U:O3'	2:AA:1835:G:H8	1.85	0.59
2:AA:1906:G:H8	2:AA:1929:G:H2'	1.66	0.59
2:AA:1917:U:C3'	2:AA:1918:A:H8	2.09	0.59
2:AA:1944:U:H2'	2:AA:1945:G:OP1	2.01	0.59
2:AA:530:G:N1	2:AA:2021:C:C5'	2.62	0.59
2:AA:2122:U:OP2	3:AC:129:ARG:NE	2.35	0.59
2:AA:222:A:HO2'	2:AA:223:A:P	2.25	0.59
2:AA:2322:A:N3	2:AA:2322:A:H2'	2.17	0.59
2:AA:2331:G:H2'	2:AA:2332:U:O4'	2.02	0.59
2:AA:2422:A:HO2'	2:AA:2424:C:H6	1.50	0.59
2:AA:2450:A:H2'	2:AA:2451:A:C5'	2.32	0.59
2:AA:2497:A:O5'	2:AA:2497:A:H8	1.85	0.59
2:AA:2799:A:O2'	2:AA:2802:G:C2	2.56	0.59
2:AA:2807:G:O6	2:AA:2892:A:N7	2.35	0.59
2:AA:30:G:H2'	2:AA:31:C:C6	2.31	0.59
2:AA:402:A:C6	2:AA:403:U:C5	2.90	0.59
2:AA:475:U:H6	2:AA:475:U:OP2	1.86	0.59
2:AA:46:C:O2'	2:AA:47:C:H5'	2.02	0.59
2:AA:535:C:H5'	25:A1:53:LYS:CE	2.32	0.59
2:AA:558:G:N3	2:AA:559:G:N7	2.51	0.59
2:AA:647:G:H2'	2:AA:648:G:C8	2.37	0.59
2:AA:68:G:H22	2:AA:74:A:P	2.26	0.59
2:AA:713:G:N2	2:AA:714:U:O4'	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:740:U:C4	2:AA:758:C:H1'	2.38	0.59
2:AA:819:A:C4'	2:AA:838:C:H5'	2.23	0.59
2:AA:66:C:C6	2:AA:89:G:N2	2.71	0.59
2:AA:974(A):C:HO2'	2:AA:989:G:N2	1.97	0.59
1:AB:87:G:O2'	1:AB:89:G:N7	2.35	0.59
6:AF:164:ALA:HB1	6:AF:232:LEU:HD13	1.84	0.59
6:AF:98:ARG:O	6:AF:99:SER:O	2.19	0.59
7:AG:134:LEU:HD13	7:AG:136:ARG:HH21	1.67	0.59
7:AG:136:ARG:N	7:AG:136:ARG:HD2	2.17	0.59
2:AA:2748:A:H1'	8:AH:66:THR:HB	1.84	0.59
8:AH:98:GLN:CB	8:AH:103:VAL:HG21	2.33	0.59
9:AI:66:PHE:CZ	9:AI:92:VAL:HG13	2.37	0.59
9:AJ:70:LYS:O	9:AJ:74:ILE:HG13	2.02	0.59
10:AK:4:ILE:HD12	10:AK:38:GLU:C	2.23	0.59
10:AK:47:LEU:CG	10:AK:48:GLU:N	2.65	0.59
2:AA:1081:U:H1'	11:AL:117:ASN:ND2	2.18	0.59
12:AM:61:VAL:HG12	12:AM:62:ASP:N	2.18	0.59
12:AM:88:PRO:HG2	12:AM:88:PRO:O	2.01	0.59
13:AN:31:ARG:O	13:AN:32:TYR:CG	2.55	0.59
13:AN:43:VAL:HG21	13:AN:53:LYS:O	2.03	0.59
13:AN:1:MET:SD	13:AN:67:ARG:HD2	2.42	0.59
13:AN:78:ARG:HB2	17:AR:21:PHE:HE1	1.65	0.59
13:AN:86:ILE:CG2	13:AN:87:ILE:N	2.65	0.59
14:AO:51:PHE:N	14:AO:51:PHE:CD1	2.71	0.59
14:AO:67:ARG:NE	14:AO:67:ARG:N	2.38	0.59
15:AP:47:GLU:O	15:AP:150:ASP:OD1	2.20	0.59
15:AP:64:ALA:HB2	15:AP:142:LYS:CE	2.26	0.59
21:AV:156:GLU:O	21:AV:157:GLY:C	2.40	0.59
21:AV:67:LYS:CE	21:AV:67:LYS:HA	2.33	0.59
2:AA:1184:G:OP1	23:AX:29:ARG:HB3	2.02	0.59
34:BA:1255:G:N2	34:BA:1276:G:N2	2.50	0.59
34:BA:1436:U:O2'	34:BA:1437:C:H5'	2.02	0.59
34:BA:1476:G:C2	34:BA:1477:C:C4	2.91	0.59
34:BA:1504:G:C8	34:BA:1504:G:H3'	2.38	0.59
34:BA:198:G:O2'	34:BA:199:G:O4'	2.20	0.59
34:BA:320:C:O2'	34:BA:321:A:O4'	2.20	0.59
34:BA:329:A:O2'	34:BA:330:C:H5'	2.03	0.59
34:BA:389:A:N1	34:BA:390:C:H1'	2.18	0.59
34:BA:44:G:C2'	34:BA:45:U:O5'	2.50	0.59
34:BA:551:U:O5'	34:BA:551:U:C6	2.53	0.59
34:BA:610:G:O2'	34:BA:611:A:H5'	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:620:C:C2'	34:BA:621:A:H5'	2.33	0.59
34:BA:705:U:C4	34:BA:706:A:N7	2.71	0.59
34:BA:772:U:H2'	34:BA:773:G:C8	2.37	0.59
34:BA:773:G:H2'	34:BA:774:G:O5'	2.02	0.59
34:BA:960:U:C4	34:BA:1225:A:C4	2.91	0.59
34:BA:981:U:C2	34:BA:982:U:C4	2.91	0.59
35:BB:58:A:O2'	35:BB:59:U:O5'	2.11	0.59
35:BC:55:U:O2	35:BC:58:A:N7	2.35	0.59
37:BE:162:ILE:H	37:BE:162:ILE:HD13	1.68	0.59
38:BF:157:ILE:CD1	38:BF:164:ARG:NE	2.65	0.59
38:BF:64:VAL:CB	38:BF:99:VAL:HG11	2.21	0.59
39:BG:173:TRP:CD1	39:BG:185:PHE:HE2	2.14	0.59
39:BG:20:TYR:C	39:BG:22:LYS:H	2.03	0.59
40:BH:26:PHE:C	40:BH:27:ARG:HG3	2.20	0.59
42:BJ:104:LEU:HD22	42:BJ:134:ALA:CB	2.32	0.59
34:BA:1180:A:OP1	44:BL:102:LEU:O	2.20	0.59
47:BO:32:PHE:CB	47:BO:84:LEU:HD11	2.32	0.59
48:BP:74:VAL:O	48:BP:78:ILE:HG13	2.02	0.59
49:BQ:21:TYR:N	49:BQ:21:TYR:HD1	2.01	0.59
52:BT:62:SER:CB	52:BT:72:ARG:NE	2.57	0.59
55:BW:53:LEU:O	55:BW:54:LYS:C	2.40	0.59
39:BG:178:VAL:O	39:BG:178:VAL:HG12	2.02	0.59
24:A0:51:LEU:HD22	24:A0:66:VAL:HG13	1.82	0.59
24:A0:77:ARG:NH1	24:A0:77:ARG:HG3	2.17	0.59
26:A2:40:VAL:CB	26:A2:51:ALA:HB1	2.33	0.59
2:AA:566:U:H5''	26:A2:81:ARG:HH22	1.68	0.59
27:A3:68:VAL:CB	27:A3:72:LYS:HG3	2.32	0.59
27:A3:75:GLY:O	27:A3:76:ALA:HB2	2.01	0.59
30:A6:16:ALA:CB	30:A6:50:PHE:CZ	2.85	0.59
31:A7:21:ARG:NH1	31:A7:43:THR:H	2.00	0.59
2:AA:593:G:C4'	32:A8:3:LYS:HZ2	2.15	0.59
2:AA:1021:A:H1'	2:AA:1123:C:H5'	1.84	0.59
2:AA:123:G:C2	2:AA:124:G:N3	2.70	0.59
2:AA:1325:G:OP2	2:AA:1616:A:C8	2.55	0.59
2:AA:1425:G:H2'	2:AA:1426:G:N9	2.16	0.59
2:AA:131:G:C2	2:AA:149:A:N6	2.71	0.59
2:AA:1470:G:N2	2:AA:1522:G:C2	2.71	0.59
2:AA:1543:A:C2'	2:AA:1544:C:O5'	2.51	0.59
2:AA:1650:G:N2	2:AA:1651:G:H1'	2.18	0.59
2:AA:1741:C:HO2'	2:AA:1742:C:H5'	1.67	0.59
2:AA:1754:C:N3	2:AA:2717:G:H5'	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1788:C:O2'	2:AA:1789:A:C5'	2.47	0.59
2:AA:2049:G:O2'	2:AA:2050:C:P	2.60	0.59
2:AA:2127:G:C8	2:AA:2174:C:C5	2.91	0.59
2:AA:2150:U:O3'	2:AA:2151:G:H8	1.85	0.59
2:AA:2208:U:H2'	2:AA:2209:C:C6	2.38	0.59
2:AA:2252:G:C5	2:AA:2253:G:N7	2.70	0.59
2:AA:2273:A:N7	2:AA:2274:A:C4	2.70	0.59
2:AA:2567:G:N3	2:AA:2568:C:C5	2.71	0.59
2:AA:2600:A:H2'	2:AA:2600:A:N3	2.18	0.59
2:AA:261:G:O2'	2:AA:609:A:H4'	2.02	0.59
2:AA:2811:G:H22	2:AA:2891:G:H1'	1.67	0.59
2:AA:288:C:OP2	2:AA:289:A:H5''	2.02	0.59
2:AA:559:G:O2'	2:AA:560:C:O4'	2.21	0.59
2:AA:585:G:H2'	2:AA:586:A:C8	2.38	0.59
2:AA:590:A:O3'	6:AF:97:ASP:OD2	2.19	0.59
2:AA:690:G:C6	2:AA:691:C:C4	2.90	0.59
2:AA:59:U:O4'	2:AA:73:A:C5	2.55	0.59
2:AA:919:G:O2'	2:AA:920:G:O5'	2.20	0.59
2:AA:940:G:C2	2:AA:941:A:C8	2.90	0.59
2:AA:821:A:N6	2:AA:946:G:C2	2.70	0.59
2:AA:957:A:O2'	2:AA:958:U:P	2.61	0.59
2:AA:988:A:P	23:AX:11:SER:CB	2.90	0.59
1:AB:52:A:C2'	1:AB:53:A:H8	2.15	0.59
1:AB:82:G:HO2'	1:AB:83:G:C5'	2.14	0.59
3:AC:100:ILE:CG2	3:AC:127:LEU:HG	2.33	0.59
4:AD:203:PRO:C	4:AD:204:PHE:CD1	2.76	0.59
5:AE:105:HIS:ND1	5:AE:108:LEU:HD21	2.18	0.59
2:AA:2575:C:H5'	5:AE:241:TRP:HE1	1.64	0.59
5:AE:99:VAL:O	5:AE:100:TRP:CD2	2.55	0.59
6:AF:196:THR:HA	6:AF:236:THR:HG21	1.85	0.59
8:AH:104:LEU:N	8:AH:104:LEU:CD1	2.66	0.59
8:AH:136:ASP:O	8:AH:140:VAL:HG23	2.02	0.59
2:AA:1081:U:O2'	11:AL:117:ASN:HB3	2.02	0.59
11:AL:43:ASN:O	11:AL:44:ALA:C	2.41	0.59
11:AL:56:VAL:HG12	11:AL:58:ILE:HG12	1.84	0.59
12:AM:27:ALA:O	12:AM:28:GLU:C	2.41	0.59
12:AM:39:VAL:O	12:AM:40:ASN:OD1	2.21	0.59
13:AN:61:VAL:HG21	13:AN:111:PHE:CE2	2.37	0.59
13:AN:11:ALA:O	13:AN:99:PHE:CB	2.46	0.59
15:AP:26:LYS:O	15:AP:28:ILE:HG13	2.02	0.59
15:AP:57:ARG:O	15:AP:58:HIS:C	2.41	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:85:ILE:O	15:AP:85:ILE:CD1	2.50	0.59
19:AT:14:ALA:O	19:AT:18:MET:SD	2.61	0.59
19:AT:32:ALA:HB3	19:AT:37:VAL:HG23	1.83	0.59
20:AU:46:ASP:OD1	20:AU:98:VAL:HG13	2.02	0.59
22:AW:53:ILE:O	22:AW:56:ILE:HB	2.03	0.59
34:BA:1160:G:N1	34:BA:1161:C:C4	2.71	0.59
34:BA:1235:U:OP1	56:BX:3:LYS:HD3	2.02	0.59
34:BA:1260:C:H4'	34:BA:1284:C:H5'	1.83	0.59
34:BA:1329:A:C5'	48:BP:29:ARG:NE	2.62	0.59
34:BA:279:A:OP2	52:BT:95:TYR:OH	2.18	0.59
34:BA:588:G:C8	34:BA:753:A:C2	2.91	0.59
34:BA:572:A:C2	34:BA:864:A:C2	2.91	0.59
34:BA:886:G:H5'	34:BA:915:A:N3	2.17	0.59
34:BA:91:C:O2'	34:BA:92:C:H5'	2.01	0.59
35:BB:32:C:O5'	35:BB:32:C:C6	2.55	0.59
35:BB:54:U:C6	35:BB:54:U:C5'	2.85	0.59
35:BC:34:G:H2'	35:BC:35:A:O4'	2.02	0.59
35:BC:62:A:C2'	35:BC:63:C:O5'	2.50	0.59
35:BC:75:C:O5'	35:BC:76:A:P	2.61	0.59
37:BE:187:LEU:HD22	37:BE:188:ALA:H	1.67	0.59
37:BE:19:HIS:CD2	37:BE:20:GLU:HG2	2.38	0.59
38:BF:110:ASN:O	38:BF:141:VAL:HG22	2.03	0.59
38:BF:12:LEU:HA	38:BF:16:ARG:O	2.03	0.59
39:BG:155:LEU:O	39:BG:158:ILE:HB	2.03	0.59
39:BG:19:LEU:O	39:BG:31:CYS:SG	2.61	0.59
39:BG:62:GLN:O	39:BG:66:ARG:HD2	2.01	0.59
41:BI:3:ARG:CB	41:BI:66:GLU:HB3	2.30	0.59
41:BI:85:VAL:CG1	41:BI:88:VAL:HG23	2.33	0.59
42:BJ:136:LYS:NZ	42:BJ:137:LYS:CG	2.65	0.59
42:BJ:75:VAL:CG1	42:BJ:76:ARG:N	2.66	0.59
43:BK:126:LYS:CE	43:BK:127:LEU:HD23	2.31	0.59
51:BS:61:SER:OG	51:BS:62:VAL:N	2.32	0.59
2:AA:1483:G:H2'	2:AA:1483:G:N3	2.17	0.59
37:BE:128:GLU:HG3	37:BE:128:GLU:O	2.02	0.59
55:BW:94:ALA:O	55:BW:95:ALA:CB	2.51	0.59
24:A0:90:ARG:NH2	24:A0:117:VAL:HG13	2.18	0.59
25:A1:20:ARG:HH12	26:A2:75:LYS:HE3	1.66	0.59
25:A1:76:TYR:O	25:A1:80:ILE:CG1	2.51	0.59
25:A1:92:ARG:HA	25:A1:95:LEU:HD11	1.83	0.59
27:A3:38:VAL:HG12	27:A3:39:ARG:N	2.17	0.59
32:A8:34:THR:O	32:A8:35:GLY:C	2.40	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:85:G:H1'	2:AA:103:A:N1	2.17	0.59
2:AA:1109:C:C4	2:AA:1110:G:C2	2.91	0.59
2:AA:1030:G:C5	2:AA:1125:G:N2	2.70	0.59
2:AA:1131:G:N2	2:AA:1132:A:C6	2.71	0.59
2:AA:152:G:N1	2:AA:175:G:N1	2.48	0.59
2:AA:1422:G:C2	2:AA:1576:U:C2	2.91	0.59
2:AA:729:G:N1	2:AA:1775:U:N3	2.50	0.59
2:AA:1785:A:OP2	2:AA:1982:C:H5'	2.03	0.59
2:AA:1856:G:O6	2:AA:1857:G:N2	2.31	0.59
2:AA:2056:G:H22	2:AA:2057:A:H1'	1.66	0.59
2:AA:2097:C:C4	2:AA:2193:G:C6	2.90	0.59
2:AA:2192:G:N1	2:AA:2193:G:N7	2.50	0.59
2:AA:2336:A:C2'	2:AA:2337:G:H5'	2.29	0.59
2:AA:2459:A:C8	2:AA:2460:U:C6	2.91	0.59
2:AA:2463:C:O2'	2:AA:2464:C:H5'	2.02	0.59
2:AA:2549:G:C2'	2:AA:2550:G:H5'	2.33	0.59
2:AA:272:G:C2	2:AA:366:C:C5	2.91	0.59
2:AA:2641:G:N1	2:AA:2773:C:O2	2.25	0.59
2:AA:2877:G:H3'	2:AA:2878:U:H5	1.65	0.59
2:AA:448:U:HO2'	6:AF:84:VAL:HG12	1.67	0.59
2:AA:483:A:H3'	2:AA:484:C:C6	2.38	0.59
2:AA:510:C:C2	2:AA:511:U:C6	2.90	0.59
2:AA:612:G:H2'	2:AA:615:G:C2	2.38	0.59
2:AA:628:G:C2	2:AA:629:G:C5	2.91	0.59
2:AA:602:G:H2'	2:AA:655:A:C2	2.38	0.59
2:AA:735:A:H61	2:AA:760:G:H22	1.50	0.59
2:AA:804:A:O3'	2:AA:806:C:N4	2.35	0.59
2:AA:864:G:C2'	2:AA:865:C:O4'	2.51	0.59
1:AB:80:U:H2'	1:AB:81:G:H8	1.68	0.59
1:AB:99:A:C2	1:AB:100:G:C5	2.91	0.59
2:AA:2121:G:N2	3:AC:168:THR:CG2	2.64	0.59
2:AA:2132:U:OP2	3:AC:6:ARG:N	2.36	0.59
4:AD:76:ARG:HH11	4:AD:113:MET:CB	2.07	0.59
5:AE:193:PHE:CE2	5:AE:199:ALA:HB1	2.38	0.59
5:AE:216:ARG:CD	5:AE:253:GLN:CA	2.81	0.59
2:AA:2310:A:C6	7:AG:55:LYS:HD3	2.38	0.59
9:AI:15:VAL:HG11	9:AI:49:ALA:HB2	1.85	0.59
9:AI:62:VAL:CG2	9:AI:101:VAL:HG22	2.31	0.59
9:AI:66:PHE:CZ	9:AI:92:VAL:HG22	2.38	0.59
15:AP:134:PHE:O	15:AP:137:ARG:CB	2.44	0.59
15:AP:33:MET:C	15:AP:83:PHE:HB2	2.22	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AT:22:ASN:O	19:AT:23:LYS:C	2.41	0.59
20:AU:112:LEU:O	20:AU:113:GLU:HB2	2.02	0.59
20:AU:53:GLY:O	20:AU:56:ALA:N	2.31	0.59
11:AL:93:LYS:NZ	21:AV:108:VAL:HG12	2.18	0.59
23:AX:55:ARG:HB2	23:AX:55:ARG:NH1	2.18	0.59
34:BA:1062:U:C2	34:BA:1063:C:C5	2.91	0.59
34:BA:1210:C:C5'	34:BA:1214:C:H42	2.13	0.59
34:BA:1429:C:O2'	34:BA:1430:C:H5'	2.01	0.59
34:BA:1486:G:C2	34:BA:1487:G:C4	2.91	0.59
34:BA:1402:C:N3	34:BA:1500:A:N6	2.51	0.59
34:BA:370:C:C2	34:BA:371:G:C8	2.91	0.59
34:BA:394:G:C6	34:BA:395:C:N4	2.70	0.59
34:BA:44:G:C6	34:BA:399:G:C6	2.90	0.59
34:BA:688:G:H1	34:BA:699:C:H42	1.49	0.59
34:BA:720:C:H6	34:BA:720:C:O5'	1.86	0.59
34:BA:731:G:O2'	34:BA:732:C:H5'	2.03	0.59
34:BA:739:C:H2'	34:BA:740:U:C5'	2.32	0.59
34:BA:795:C:H4'	34:BA:1506:U:O2	2.03	0.59
34:BA:855:G:C5	34:BA:856:C:C5	2.91	0.59
34:BA:880:C:H2'	34:BA:881:G:C5'	2.33	0.59
34:BA:8:A:C4'	40:BH:102:ALA:HA	2.32	0.59
34:BA:951:G:O2'	34:BA:972:C:H5	1.86	0.59
34:BA:957:U:H3	34:BA:960:U:H5'	1.66	0.59
37:BE:102:LEU:CD1	37:BE:102:LEU:H	2.15	0.59
40:BH:56:GLN:N	40:BH:56:GLN:HE21	2.00	0.59
43:BK:104:ARG:O	43:BK:107:LEU:HD23	2.02	0.59
43:BK:60:ARG:CG	43:BK:61:VAL:N	2.66	0.59
45:BM:99:LYS:O	45:BM:100:THR:HG22	2.03	0.59
45:BM:58:ASP:O	45:BM:59:SER:C	2.39	0.59
46:BN:42:TRP:HZ3	46:BN:47:VAL:CG2	2.16	0.59
46:BN:92:GLU:C	46:BN:94:ALA:N	2.52	0.59
48:BP:15:VAL:HG21	48:BP:34:LEU:HD21	1.85	0.59
34:BA:254:G:H21	52:BT:16:GLN:NE2	2.01	0.59
54:BV:78:ARG:O	54:BV:79:THR:OG1	2.19	0.59
55:BW:49:ALA:HB3	55:BW:99:LEU:CD1	2.32	0.59
10:AK:93:ILE:HG13	10:AK:121:ILE:H	1.66	0.59
2:AA:1484:G:H1	2:AA:1505:C:N4	2.00	0.59
24:A0:20:LEU:C	24:A0:20:LEU:CD1	2.70	0.59
24:A0:61:HIS:O	24:A0:64:ARG:CG	2.50	0.59
24:A0:75:LEU:O	24:A0:78:LYS:N	2.36	0.59
25:A1:62:ILE:C	25:A1:65:ILE:HB	2.22	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:973:A:N6	26:A2:81:ARG:HG3	2.18	0.59
26:A2:73:LYS:HG2	26:A2:87:ARG:HG2	1.84	0.59
28:A4:11:PRO:HG2	28:A4:12:CYS:SG	2.43	0.59
28:A4:18:GLY:CA	28:A4:19:GLN:NE2	2.65	0.59
18:AS:34:ASN:HD21	29:A5:39:LYS:HB2	1.67	0.59
30:A6:5:GLY:O	30:A6:7:ARG:N	2.34	0.59
32:A8:26:LYS:CD	32:A8:44:LYS:HA	2.30	0.59
32:A8:29:LYS:CD	32:A8:36:LYS:HZ3	1.96	0.59
2:AA:1226:G:C8	2:AA:1226:G:H3'	2.38	0.59
2:AA:1376:C:C2	2:AA:1377:G:C8	2.90	0.59
2:AA:155:C:O2'	2:AA:161:U:P	2.60	0.59
2:AA:1628:G:N1	2:AA:1629:U:C4	2.71	0.59
2:AA:1665:A:C2	2:AA:1666:G:C4	2.90	0.59
2:AA:1677:A:C2	2:AA:1678:G:C4	2.91	0.59
2:AA:1718:G:N2	2:AA:1742:C:O2	2.35	0.59
2:AA:1636:C:H1'	2:AA:1761:C:H1'	1.84	0.59
2:AA:1819:A:O4'	2:AA:1821:A:C5	2.56	0.59
2:AA:1904:G:C2	2:AA:1905:C:C6	2.90	0.59
2:AA:1770:G:C6	2:AA:1983:C:C4	2.91	0.59
2:AA:2015:A:C8	29:A5:6:VAL:HG11	2.38	0.59
2:AA:2015:A:H3'	2:AA:2016:U:H5	1.68	0.59
2:AA:2394:C:H2'	2:AA:2395:C:C6	2.38	0.59
2:AA:2527:C:H5''	33:A9:30:VAL:CG1	2.32	0.59
2:AA:2695:C:C2'	2:AA:2696:U:C6	2.85	0.59
2:AA:2772:C:H2'	2:AA:2773:C:C6	2.37	0.59
2:AA:2844:G:H2'	2:AA:2844:G:N3	2.17	0.59
2:AA:458:G:H5'	31:A7:39:ARG:HD2	1.84	0.59
2:AA:511:U:H5	2:AA:512:G:N2	2.00	0.59
2:AA:5:A:H2'	2:AA:6:A:O4'	2.03	0.59
2:AA:637:A:O3'	2:AA:638:G:O4'	2.21	0.59
2:AA:604:G:H21	2:AA:657:U:C4'	2.16	0.59
2:AA:71:A:C5'	2:AA:72:U:H3'	2.32	0.59
2:AA:801:G:N7	6:AF:54:LEU:HD22	2.18	0.59
2:AA:886:C:H4'	2:AA:887:A:C5'	2.33	0.59
1:AB:52:A:O2'	1:AB:53:A:H5'	2.02	0.59
4:AD:166:LYS:HD2	4:AD:171:VAL:HG11	1.84	0.59
4:AD:140:VAL:HG13	4:AD:191:VAL:HG12	1.83	0.59
5:AE:228:ARG:O	5:AE:230:GLY:N	2.36	0.59
2:AA:2579:C:C4'	5:AE:231:TRP:CH2	2.85	0.59
5:AE:198:TYR:CE1	5:AE:267:ARG:HB3	2.37	0.59
6:AF:165:ASP:O	6:AF:168:ARG:CB	2.51	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:215:ALA:C	6:AF:242:GLU:HG2	2.23	0.59
6:AF:38:ALA:O	6:AF:39:GLN:C	2.39	0.59
6:AF:56:THR:O	6:AF:79:ARG:NE	2.36	0.59
7:AG:156:ARG:O	7:AG:156:ARG:HG2	2.03	0.59
8:AH:102:LEU:CD2	8:AH:114:ILE:O	2.50	0.59
8:AH:123:GLU:OE2	8:AH:123:GLU:N	2.35	0.59
8:AH:40:MET:HB2	8:AH:64:HIS:CE1	2.38	0.59
13:AN:7:ARG:NH2	13:AN:44:LYS:HD3	2.17	0.59
13:AN:87:ILE:HG21	13:AN:91:LYS:HA	1.83	0.59
13:AN:87:ILE:HG23	13:AN:92:SER:O	2.03	0.59
15:AP:32:LYS:HE3	21:AV:172:LEU:CD2	2.33	0.59
15:AP:67:ALA:N	15:AP:70:ARG:NE	2.51	0.59
16:AQ:110:THR:CG2	16:AQ:114:LYS:HB2	2.33	0.59
16:AQ:31:LYS:HB3	16:AQ:32:PRO:CD	2.30	0.59
2:AA:2320:A:C5	16:AQ:9:PRO:HB3	2.36	0.59
17:AR:37:GLU:HG2	17:AR:38:ASN:N	2.17	0.59
18:AS:12:ILE:HD13	18:AS:42:ARG:HD3	1.84	0.59
18:AS:43:GLY:O	18:AS:46:PHE:N	2.36	0.59
2:AA:492:A:N1	18:AS:49:LYS:NZ	2.51	0.59
19:AT:10:VAL:HG13	19:AT:15:MET:HG2	1.85	0.59
19:AT:6:LYS:HE3	19:AT:28:VAL:C	2.23	0.59
20:AU:18:GLU:O	20:AU:19:ARG:C	2.39	0.59
21:AV:105:GLN:OE1	21:AV:141:MET:SD	2.61	0.59
21:AV:62:PHE:HB2	21:AV:85:MET:SD	2.43	0.59
23:AX:20:LYS:HA	23:AX:23:LEU:CD1	2.32	0.59
2:AA:932:G:P	23:AX:29:ARG:HH21	2.25	0.59
34:BA:1077:G:C2	34:BA:1079:G:H3'	2.38	0.59
34:BA:1128:C:O2	34:BA:1130:A:N6	2.35	0.59
34:BA:1247:U:O2'	34:BA:1248:A:H5'	2.03	0.59
34:BA:1507:A:O2'	34:BA:1508:G:H5'	2.02	0.59
34:BA:152:A:N7	34:BA:153:C:C5	2.71	0.59
34:BA:192:U:N3	34:BA:193:C:N4	2.51	0.59
34:BA:246:A:O2'	34:BA:247:G:P	2.60	0.59
34:BA:246:A:O2'	34:BA:247:G:OP2	2.21	0.59
34:BA:253:U:H2'	34:BA:254:G:C8	2.38	0.59
34:BA:390:C:O2'	34:BA:391:G:O5'	2.21	0.59
34:BA:395:C:O2'	34:BA:396:G:H5'	2.03	0.59
34:BA:411:A:C6	34:BA:429:U:C4	2.91	0.59
34:BA:373:A:C6	34:BA:482:A:C6	2.91	0.59
34:BA:738:C:OP2	41:BI:92:LYS:NZ	2.31	0.59
34:BA:933:G:O5'	34:BA:933:G:H8	1.86	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:58:A:C2	35:BB:61:C:N1	2.70	0.59
35:BC:17:U:C5	35:BC:19:G:H8	2.20	0.59
35:BC:35:A:C2	36:B1:62:G:C6	2.91	0.59
37:BE:93:VAL:HG21	37:BE:101:MET:CE	2.33	0.59
37:BE:118:LEU:O	37:BE:120:ALA:N	2.36	0.59
37:BE:16:HIS:NE2	37:BE:210:SER:HA	2.18	0.59
39:BG:31:CYS:O	39:BG:33:MET:SD	2.60	0.59
39:BG:7:PRO:O	39:BG:10:ARG:HB3	2.02	0.59
40:BH:11:ILE:HB	40:BH:31:LEU:HD22	1.84	0.59
45:BM:25:GLU:HA	45:BM:28:ARG:HB2	1.83	0.59
48:BP:8:GLU:HG3	48:BP:22:ILE:HD11	1.85	0.59
50:BR:81:LEU:O	50:BR:82:ILE:C	2.40	0.59
53:BU:81:PHE:O	53:BU:82:THR:HG22	2.03	0.59
26:A2:37:ALA:O	26:A2:58:ALA:CB	2.51	0.59
26:A2:35:LEU:O	26:A2:60:VAL:CA	2.50	0.59
28:A4:33:VAL:CG1	28:A4:34:ASP:H	2.16	0.59
2:AA:1025:G:C8	2:AA:1134:G:C4'	2.85	0.59
2:AA:1014:U:C2	2:AA:1149:G:N2	2.71	0.59
2:AA:1186:G:H2'	2:AA:1187:G:H8	1.68	0.59
2:AA:1216:G:OP1	25:A1:11:ARG:HD3	2.03	0.59
2:AA:1259:G:C4	2:AA:1260:G:C8	2.91	0.59
2:AA:144:C:O2'	2:AA:145:G:C5'	2.51	0.59
2:AA:1569:A:N6	2:AA:1570:A:N6	2.50	0.59
2:AA:1672:C:C2'	2:AA:1673:U:H5'	2.33	0.59
2:AA:1688:U:O2'	2:AA:1689:A:OP2	2.20	0.59
2:AA:1762:A:C8	2:AA:1762:A:C3'	2.82	0.59
2:AA:1775:U:H2'	2:AA:1776:G:C5'	2.33	0.59
2:AA:1781:C:C6	2:AA:1781:C:C3'	2.80	0.59
2:AA:1872:A:H2'	2:AA:1878:G:C4'	2.33	0.59
2:AA:1883:G:N1	2:AA:1884:A:H2	2.00	0.59
2:AA:2110:G:N1	2:AA:2179:C:O2	2.35	0.59
2:AA:2118:U:C3'	2:AA:2118:U:C6	2.85	0.59
2:AA:2182:G:C2	2:AA:2183:C:N3	2.71	0.59
2:AA:2261:C:OP2	27:A3:14:ARG:CD	2.51	0.59
2:AA:2350:C:H2'	2:AA:2351:G:C8	2.38	0.59
2:AA:2358:G:N3	2:AA:2358:G:C2'	2.58	0.59
2:AA:2437:U:O2'	2:AA:2438:U:O5'	2.20	0.59
2:AA:23:G:C2	2:AA:24:G:C1'	2.86	0.59
2:AA:2674:G:O2'	13:AN:30:ARG:HG3	2.03	0.59
2:AA:271:G:H1	2:AA:404:C:N4	2.00	0.59
2:AA:2793:G:H2'	2:AA:2794:C:H6	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2802:G:H2'	2:AA:2803:C:C6	2.31	0.59
2:AA:290:G:H2'	2:AA:291:C:O4'	2.03	0.59
2:AA:430:G:H8	2:AA:430:G:P	2.26	0.59
2:AA:482:A:C8	2:AA:506:G:N2	2.71	0.59
2:AA:5:A:O2'	2:AA:6:A:H5'	2.02	0.59
2:AA:705:A:N6	2:AA:727:A:C1'	2.66	0.59
2:AA:760:G:O2'	2:AA:761:A:H5'	2.03	0.59
2:AA:911:A:C4	15:AP:16:ARG:HG2	2.38	0.59
1:AB:30:C:C4'	1:AB:58:A:H2	2.14	0.59
3:AC:110:PHE:CE1	3:AC:136:LEU:HD22	2.38	0.59
4:AD:122:ASP:O	4:AD:122:ASP:CG	2.41	0.59
4:AD:158:GLY:CA	4:AD:194:VAL:HG21	2.32	0.59
2:AA:1567:A:C4	4:AD:84:PRO:HB3	2.37	0.59
5:AE:102:ASP:HA	5:AE:104:PHE:CD2	2.37	0.59
5:AE:211:GLN:H	5:AE:216:ARG:NH2	1.99	0.59
5:AE:247:ARG:HD3	5:AE:249:THR:HG21	1.85	0.59
2:AA:2049:G:O2'	5:AE:253:GLN:OE1	2.20	0.59
5:AE:43:GLY:C	5:AE:44:TYR:HD1	2.07	0.59
6:AF:168:ARG:NH1	6:AF:209:GLY:O	2.35	0.59
6:AF:197:SER:O	6:AF:198:ASP:HB2	2.02	0.59
7:AG:151:ILE:HG21	7:AG:156:ARG:CZ	2.32	0.59
8:AH:112:VAL:CG1	8:AH:113:GLU:N	2.65	0.59
9:AJ:69:ASN:CB	9:AJ:122:GLY:HA3	2.29	0.59
15:AP:67:ALA:O	15:AP:71:PHE:HD1	1.86	0.59
16:AQ:56:ASP:OD1	16:AQ:57:THR:N	2.36	0.59
16:AQ:58:LEU:O	16:AQ:60:SER:N	2.35	0.59
18:AS:88:ARG:CD	18:AS:91:GLY:O	2.41	0.59
19:AT:18:MET:CE	19:AT:25:GLN:H	2.14	0.59
20:AU:31:LEU:CB	20:AU:101:LEU:HD12	2.29	0.59
21:AV:172:LEU:HD23	21:AV:173:PRO:N	2.18	0.59
2:AA:930:U:OP1	23:AX:37:LEU:HD11	2.03	0.59
34:BA:1032:G:H2'	34:BA:1033:G:H8	1.64	0.59
34:BA:1105:A:O2'	34:BA:1106:G:H5'	2.02	0.59
34:BA:1147:C:N4	34:BA:1148:U:O4	2.36	0.59
34:BA:122:G:OP1	34:BA:122:G:C8	2.56	0.59
34:BA:1409:C:H2'	34:BA:1410:G:C8	2.37	0.59
34:BA:1473:A:C2'	34:BA:1474:G:O5'	2.51	0.59
34:BA:1473:A:O2'	34:BA:1474:G:H5'	2.02	0.59
34:BA:308:C:C2'	34:BA:309:G:O5'	2.49	0.59
34:BA:440:A:OP2	34:BA:440:A:H8	1.84	0.59
34:BA:27:G:C2	34:BA:557:G:N3	2.71	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:598:U:C2	34:BA:599:C:C6	2.91	0.59
34:BA:676:A:C4	34:BA:677:U:C5	2.91	0.59
34:BA:69:G:H2'	34:BA:70:G:C8	2.37	0.59
34:BA:961:U:H3	34:BA:974:A:N6	1.89	0.59
37:BE:153:ARG:NH1	37:BE:154:LEU:O	2.36	0.59
37:BE:200:ILE:O	37:BE:202:PRO:HD3	2.01	0.59
38:BF:83:ARG:C	38:BF:85:ARG:H	2.05	0.59
39:BG:135:LEU:C	39:BG:137:SER:N	2.49	0.59
42:BJ:29:LYS:NZ	42:BJ:102:ARG:HB2	2.17	0.59
42:BJ:45:ASP:HB2	42:BJ:117:ALA:HB1	1.84	0.59
43:BK:100:ILE:H	43:BK:100:ILE:HD12	1.67	0.59
43:BK:32:LYS:O	43:BK:35:ILE:HB	2.03	0.59
46:BN:77:MET:CE	46:BN:80:VAL:HG22	2.33	0.59
46:BN:99:GLN:CB	46:BN:105:VAL:HG11	2.33	0.59
34:BA:948:C:OP1	48:BP:109:THR:N	2.32	0.59
48:BP:44:ARG:N	48:BP:47:ASP:OD2	2.36	0.59
50:BR:15:PHE:CZ	50:BR:85:LEU:HD21	2.38	0.59
34:BA:1319:A:H4'	54:BV:70:LYS:HZ3	1.68	0.59
55:BW:102:GLY:O	55:BW:104:LEU:N	2.35	0.59
34:BA:187:C:O4'	55:BW:85:MET:SD	2.61	0.59
35:BB:31:A:N3	35:BB:31:A:H2'	2.18	0.59
2:AA:2247:A:H2'	2:AA:2248:C:O4'	2.03	0.59
1:AB:35:U:H3'	1:AB:35:U:C6	2.38	0.59
48:BP:69:GLU:HA	48:BP:72:ALA:CB	2.32	0.59
26:A2:50:ASP:HB2	26:A2:53:LYS:HG3	1.84	0.58
26:A2:5:ILE:N	26:A2:12:TYR:CD2	2.71	0.58
26:A2:6:GLN:NE2	26:A2:10:LYS:HA	2.17	0.58
26:A2:65:ARG:HD2	26:A2:94:LYS:HD3	1.85	0.58
2:AA:1139:G:H2'	2:AA:1140:C:H5'	1.84	0.58
2:AA:1223:C:C2	2:AA:1225:C:OP2	2.55	0.58
2:AA:1255:U:C5'	2:AA:1256:G:H5"	2.33	0.58
2:AA:1370:C:H2'	2:AA:1370:C:O2	2.03	0.58
2:AA:1443:G:C2	2:AA:1444:G:H1'	2.37	0.58
2:AA:1492:G:N2	2:AA:1493:C:N3	2.50	0.58
2:AA:1496:A:C2	2:AA:1497:U:C4	2.91	0.58
2:AA:1604:C:C2'	2:AA:1605:C:H5'	2.33	0.58
2:AA:1614:A:N6	18:AS:88:ARG:N	2.51	0.58
2:AA:181:A:C4	2:AA:182:A:N7	2.70	0.58
2:AA:1846:G:N2	2:AA:1895:C:C6	2.70	0.58
2:AA:186:G:C2	2:AA:187:G:C8	2.90	0.58
2:AA:1859:A:N6	2:AA:1883:G:O2'	2.30	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1912:A:C2	2:AA:1919:A:C4	2.91	0.58
2:AA:1678:G:H22	2:AA:1989:G:N2	2.01	0.58
2:AA:1993:U:O2'	5:AE:224:GLY:HA3	2.03	0.58
2:AA:2022:U:H3	29:A5:9:LYS:CE	2.14	0.58
2:AA:2022:U:O2'	2:AA:2023:G:OP1	2.19	0.58
2:AA:207:A:C2	2:AA:208:C:N1	2.71	0.58
2:AA:2100:G:C6	2:AA:2101:G:C5	2.91	0.58
2:AA:2316:C:O2'	7:AG:151:ILE:CG1	2.51	0.58
2:AA:2503:A:H5'	2:AA:2504:U:OP2	2.03	0.58
2:AA:2507:C:C2	2:AA:2583:G:C2	2.91	0.58
2:AA:2633:G:H5''	2:AA:2812:G:H5'	1.85	0.58
2:AA:270:A:N1	2:AA:370:G:C1'	2.64	0.58
2:AA:2811:G:H2'	2:AA:2812:G:O4'	2.03	0.58
2:AA:715:G:C2	2:AA:716:A:N1	2.70	0.58
2:AA:722:A:H2'	2:AA:723:G:H8	1.68	0.58
2:AA:871:U:H4'	15:AP:90:PHE:CZ	2.36	0.58
2:AA:928:G:C2'	2:AA:929:G:C8	2.85	0.58
1:AB:46:A:O5'	1:AB:46:A:H8	1.85	0.58
1:AB:9:G:C5	1:AB:112:G:C6	2.91	0.58
3:AC:131:LEU:HA	3:AC:136:LEU:HB2	1.85	0.58
3:AC:58:VAL:CG1	3:AC:199:HIS:HB3	2.33	0.58
4:AD:139:LEU:O	4:AD:191:VAL:CB	2.43	0.58
4:AD:81:GLU:CG	4:AD:92:LEU:HD13	2.33	0.58
5:AE:66:GLU:HB3	13:AN:72:PRO:O	2.03	0.58
6:AF:150:THR:HB	6:AF:207:LEU:CD2	2.33	0.58
7:AG:100:ASP:O	7:AG:102:GLY:N	2.33	0.58
8:AH:102:LEU:HD23	8:AH:102:LEU:H	1.67	0.58
8:AH:34:ARG:HH12	8:AH:73:ASN:HB2	1.68	0.58
9:AI:106:VAL:HG12	9:AI:110:GLU:HB2	1.86	0.58
2:AA:1084:A:C5	9:AI:25:LEU:HD13	2.38	0.58
2:AA:1085:A:P	9:AI:35:ALA:N	2.76	0.58
9:AJ:60:ASP:HB2	9:AJ:128:LYS:CD	2.33	0.58
10:AK:10:LYS:CG	10:AK:11:GLY:N	2.65	0.58
11:AL:11:LEU:HD11	11:AL:28:LEU:CD1	2.33	0.58
11:AL:71:LYS:HB3	11:AL:115:ASP:OD1	2.03	0.58
12:AM:88:PRO:HD2	12:AM:94:GLY:HA2	1.83	0.58
14:AO:55:GLN:HE21	14:AO:56:LYS:HB3	1.67	0.58
14:AO:95:ASP:O	14:AO:96:VAL:O	2.20	0.58
15:AP:48:ASN:OD1	15:AP:48:ASN:C	2.41	0.58
15:AP:88:PHE:N	15:AP:88:PHE:CD1	2.67	0.58
16:AQ:118:ILE:O	16:AQ:121:GLY:HA3	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AQ:71:TRP:O	16:AQ:72:GLU:O	2.21	0.58
18:AS:88:ARG:HA	18:AS:93:ALA:CA	2.33	0.58
20:AU:103:LEU:O	20:AU:105:ASP:N	2.36	0.58
21:AV:98:VAL:HG22	21:AV:134:LEU:HD22	1.83	0.58
21:AV:19:ILE:HG13	21:AV:79:ILE:CG2	2.31	0.58
21:AV:53:ASP:CG	21:AV:54:ILE:N	2.56	0.58
36:B1:59:A:O2'	36:B1:60:A:OP1	2.21	0.58
34:BA:1191:A:OP1	38:BF:4:LYS:HG3	2.03	0.58
34:BA:122:G:H2'	34:BA:123:C:O4'	2.02	0.58
34:BA:1288:A:H2	34:BA:1352:C:O2	1.86	0.58
34:BA:1312:G:N7	54:BV:2:PRO:O	2.36	0.58
34:BA:1408:A:N6	34:BA:1409:C:N4	2.51	0.58
34:BA:280:C:O2	52:BT:39:SER:N	2.34	0.58
34:BA:366:C:HO2'	34:BA:367:U:P	2.25	0.58
34:BA:456:C:H42	34:BA:476:G:H1	1.51	0.58
34:BA:55:A:C2	34:BA:56:U:H1'	2.38	0.58
34:BA:660:G:O2'	34:BA:661:G:O5'	2.21	0.58
34:BA:668:G:N3	50:BR:46:HIS:NE2	2.50	0.58
34:BA:722:A:H2'	34:BA:724:G:C8	2.38	0.58
37:BE:208:ILE:HA	37:BE:211:ILE:HB	1.84	0.58
39:BG:14:ARG:HG3	39:BG:15:GLU:OE1	2.03	0.58
39:BG:63:LYS:CG	39:BG:64:LEU:N	2.66	0.58
39:BG:64:LEU:C	39:BG:64:LEU:HD13	2.23	0.58
40:BH:103:GLY:HA2	40:BH:107:ARG:NH2	2.18	0.58
40:BH:84:PHE:HE2	40:BH:130:ASN:OD1	1.84	0.58
42:BJ:104:LEU:HD22	42:BJ:104:LEU:N	2.17	0.58
42:BJ:68:ASN:HB3	42:BJ:135:VAL:CG2	2.33	0.58
43:BK:123:GLU:HG2	43:BK:124:ALA:H	1.67	0.58
43:BK:69:ARG:NH1	43:BK:73:ASP:O	2.36	0.58
45:BM:24:VAL:CA	45:BM:34:VAL:HG21	2.29	0.58
45:BM:51:ARG:O	45:BM:52:GLY:C	2.41	0.58
46:BN:28:THR:HG22	46:BN:29:ILE:N	2.16	0.58
46:BN:54:ARG:HD3	46:BN:54:ARG:H	1.68	0.58
46:BN:46:GLY:N	46:BN:55:LYS:HD3	2.17	0.58
47:BO:28:LYS:HE3	47:BO:33:ARG:NH1	2.17	0.58
48:BP:24:GLY:HA3	48:BP:66:LEU:CD2	2.32	0.58
51:BS:19:ILE:O	51:BS:36:ILE:HG13	2.02	0.58
52:BT:95:TYR:O	52:BT:97:SER:N	2.36	0.58
53:BU:31:LEU:HD22	53:BU:66:LEU:HA	1.85	0.58
55:BW:86:ARG:HG3	55:BW:87:LYS:N	2.18	0.58
35:BB:29:A:C5	35:BB:42:G:C2	2.91	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:41:U:N3	35:BB:42:G:C5	2.71	0.58
10:AK:134:HIS:O	10:AK:137:VAL:O	2.20	0.58
2:AA:1040:C:O2	2:AA:1040:C:C2'	2.51	0.58
36:B1:14:U:O4	36:B1:42:G:O6	2.21	0.58
37:BE:28:PHE:HD2	37:BE:190:THR:HA	1.66	0.58
39:BG:187:ARG:HE	39:BG:188:LEU:HG	1.69	0.58
25:A1:99:ALA:CA	25:A1:106:PHE:CG	2.85	0.58
25:A1:44:THR:HG22	25:A1:48:ARG:HE	1.68	0.58
26:A2:62:GLU:HG3	26:A2:98:ILE:CD1	2.24	0.58
27:A3:45:PHE:CD1	27:A3:45:PHE:N	2.69	0.58
27:A3:37:LEU:HB2	27:A3:68:VAL:CA	2.33	0.58
27:A3:76:ALA:O	27:A3:78:PHE:CD1	2.56	0.58
28:A4:35:VAL:HG12	28:A4:36:TRP:H	1.67	0.58
33:A9:32:HIS:O	33:A9:33:LYS:C	2.41	0.58
2:AA:1044:G:C2	2:AA:1111:A:H1'	2.38	0.58
2:AA:1083:U:C6	2:AA:1083:U:OP2	2.54	0.58
2:AA:1134:G:N3	2:AA:1134:G:H2'	2.18	0.58
2:AA:1149:G:H2'	2:AA:1150:C:C6	2.37	0.58
2:AA:1196:C:H2'	2:AA:1197:G:C8	2.38	0.58
2:AA:1309:G:H5''	31:A7:7:PRO:O	2.03	0.58
2:AA:1364:G:H5''	2:AA:1809:A:C8	2.38	0.58
2:AA:1368:G:OP1	31:A7:25:LYS:CE	2.50	0.58
2:AA:137:C:H2'	2:AA:137:C:O2	2.03	0.58
2:AA:144:C:H5''	19:AT:36:GLU:OE1	2.03	0.58
2:AA:1544:C:O2'	2:AA:1545:A:C4'	2.46	0.58
2:AA:1527:G:H1'	2:AA:1545:A:N6	2.19	0.58
2:AA:1627:G:H2'	2:AA:1628:G:H8	1.68	0.58
2:AA:1655:A:H8	2:AA:1655:A:OP2	1.85	0.58
2:AA:1666:G:N7	2:AA:1667:G:C2	2.71	0.58
2:AA:1670:C:H3'	2:AA:1671:U:H6	1.68	0.58
2:AA:1695:G:N2	2:AA:1696:G:N7	2.49	0.58
2:AA:1703:G:C2	2:AA:1704:G:C1'	2.87	0.58
2:AA:1703:G:C2	2:AA:1704:G:H1'	2.37	0.58
2:AA:162:U:C5'	2:AA:171:G:N3	2.66	0.58
2:AA:1793:C:N4	2:AA:1825:A:H62	1.99	0.58
2:AA:1964:G:C6	2:AA:1967:C:C5	2.91	0.58
2:AA:2019:A:C2	2:AA:2020:A:C4	2.91	0.58
2:AA:2083:G:O5'	2:AA:2083:G:H8	1.87	0.58
2:AA:2268:A:H4'	2:AA:2268:A:OP1	2.02	0.58
2:AA:2379:G:N2	2:AA:2380:C:C2	2.71	0.58
2:AA:244:A:N6	2:AA:245:G:N3	2.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2576:G:H3'	2:AA:2576:G:P	2.43	0.58
2:AA:2603:G:C3'	2:AA:2603:G:C8	2.86	0.58
2:AA:2607:G:C6	2:AA:2608:G:C2	2.91	0.58
2:AA:280:C:N3	2:AA:360:G:O6	2.36	0.58
2:AA:2818:G:O2'	2:AA:2837:G:C5'	2.49	0.58
2:AA:270:A:C6	2:AA:370:G:C8	2.91	0.58
2:AA:382:G:H1	2:AA:392:C:H42	1.50	0.58
2:AA:415:A:H2'	2:AA:416:C:H6	1.68	0.58
2:AA:27:G:H1	2:AA:512:G:H2'	1.61	0.58
2:AA:559:G:H5'	2:AA:559:G:C8	2.34	0.58
2:AA:718:A:C5'	2:AA:719:C:C5	2.83	0.58
2:AA:845:G:C5'	2:AA:846:C:OP1	2.50	0.58
3:AC:116:THR:O	3:AC:118:ASP:N	2.36	0.58
3:AC:215:THR:OG1	3:AC:220:PRO:O	2.17	0.58
3:AC:43:VAL:HG21	3:AC:175:VAL:HG11	1.85	0.58
4:AD:164:LEU:O	4:AD:172:ILE:HG21	2.03	0.58
4:AD:194:VAL:CG2	4:AD:195:GLY:N	2.65	0.58
2:AA:1492:G:C4'	4:AD:97:ASP:OD1	2.51	0.58
5:AE:214:VAL:HG21	5:AE:221:LYS:NZ	2.17	0.58
5:AE:226:HIS:CG	5:AE:229:GLN:OE1	2.56	0.58
5:AE:222:ARG:NH1	5:AE:234:ARG:HH21	2.01	0.58
2:AA:2052:G:H21	5:AE:245:ARG:CB	2.16	0.58
5:AE:267:ARG:O	5:AE:297:LYS:CG	2.49	0.58
5:AE:44:TYR:CD1	5:AE:309:PRO:HD2	2.38	0.58
6:AF:37:ALA:CB	6:AF:107:ARG:NH2	2.59	0.58
6:AF:197:SER:O	6:AF:238:SER:HB2	2.03	0.58
6:AF:200:PRO:HD3	6:AF:214:THR:HG21	1.85	0.58
6:AF:36:ARG:O	6:AF:37:ALA:C	2.42	0.58
7:AG:19:GLU:CD	7:AG:135:VAL:CG2	2.71	0.58
8:AH:124:VAL:O	8:AH:125:PRO:C	2.42	0.58
9:AI:78:ARG:HH11	9:AI:85:LEU:HD22	1.68	0.58
9:AJ:15:VAL:HG22	9:AJ:48:ALA:HB3	1.85	0.58
14:AO:94:ARG:CB	14:AO:120:LEU:HD22	2.32	0.58
15:AP:57:ARG:CA	15:AP:61:LEU:HD21	2.33	0.58
16:AQ:19:ASP:O	16:AQ:22:GLN:N	2.36	0.58
18:AS:36:LEU:CD1	18:AS:51:LEU:CD2	2.80	0.58
19:AT:54:THR:HG22	19:AT:64:ALA:HB1	1.85	0.58
20:AU:47:THR:OG1	20:AU:61:GLU:HG3	2.03	0.58
21:AV:68:ALA:HB3	21:AV:82:ASP:HB3	1.85	0.58
34:BA:1085:U:O2'	34:BA:1086:U:OP1	2.16	0.58
34:BA:1127:G:N2	34:BA:1146:A:H62	2.00	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:127:G:OP1	34:BA:635:G:H1'	2.02	0.58
34:BA:1243:C:N4	34:BA:1294:G:H1	1.97	0.58
34:BA:1358:U:C5'	49:BQ:34:TYR:HA	2.33	0.58
34:BA:1401:G:C8	34:BA:1402:C:C6	2.91	0.58
34:BA:1422:G:C6	34:BA:1423:G:N7	2.71	0.58
34:BA:16:A:H2'	34:BA:17:U:H5'	1.84	0.58
34:BA:181:G:H4'	34:BA:182:U:H5'	1.85	0.58
34:BA:333:G:C6	34:BA:334:C:N4	2.71	0.58
34:BA:350:G:C2	34:BA:351:G:N1	2.71	0.58
34:BA:370:C:H42	34:BA:391:G:H1	1.49	0.58
34:BA:413:G:N2	34:BA:428:G:H1'	2.18	0.58
34:BA:49:U:C5	34:BA:364:A:C6	2.91	0.58
34:BA:302:G:H21	34:BA:556:C:C4'	2.16	0.58
34:BA:676:A:HO2'	46:BN:115:PRO:HG3	1.69	0.58
34:BA:837:G:H1	34:BA:849:C:H42	1.50	0.58
2:AA:882:G:H5'	35:BB:19:G:O6	2.03	0.58
37:BE:104:ASN:O	37:BE:104:ASN:CG	2.41	0.58
39:BG:30:LYS:O	39:BG:32:ALA:N	2.31	0.58
40:BH:90:VAL:O	40:BH:120:THR:HA	2.03	0.58
40:BH:18:ARG:H	40:BH:26:PHE:HB3	1.66	0.58
41:BI:2:ARG:NH2	50:BR:2:PRO:HD2	2.18	0.58
42:BJ:88:PRO:HD2	42:BJ:152:ALA:HA	1.85	0.58
43:BK:8:ASP:HA	43:BK:11:THR:OG1	2.03	0.58
34:BA:695:A:OP2	46:BN:52:GLY:HA3	2.03	0.58
34:BA:529:G:O6	47:BO:49:ASN:CB	2.51	0.58
47:BO:45:PRO:CD	47:BO:51:ALA:H	2.16	0.58
34:BA:523:A:N6	47:BO:53:ARG:HH21	1.99	0.58
48:BP:16:ASP:OD2	48:BP:17:VAL:HG23	2.02	0.58
50:BR:59:MET:SD	50:BR:60:VAL:N	2.76	0.58
50:BR:62:GLN:CA	50:BR:65:ARG:HH22	2.16	0.58
51:BS:20:VAL:CG2	51:BS:35:LYS:HD2	2.33	0.58
52:BT:11:VAL:CG2	52:BT:20:THR:HB	2.32	0.58
52:BT:33:GLY:O	52:BT:34:LYS:O	2.21	0.58
52:BT:59:ILE:HG23	52:BT:59:ILE:O	2.03	0.58
52:BT:9:VAL:HG12	52:BT:54:GLY:O	2.02	0.58
53:BU:45:SER:CB	53:BU:51:LEU:HD11	2.29	0.58
54:BV:53:ASN:OD1	54:BV:56:GLN:HB2	2.04	0.58
18:AS:68:ARG:NH2	18:AS:110:LYS:HG2	2.16	0.58
25:A1:43:ALA:CB	26:A2:75:LYS:CB	2.81	0.58
26:A2:71:ILE:O	26:A2:72:ARG:CG	2.51	0.58
26:A2:15:SER:HA	26:A2:99:GLN:CD	2.24	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:A3:26:PHE:CD1	27:A3:26:PHE:N	2.69	0.58
2:AA:2331:G:H4'	27:A3:70:ILE:CG1	2.34	0.58
30:A6:11:LYS:NZ	32:A8:35:GLY:HA3	2.18	0.58
2:AA:2286:A:N6	30:A6:31:THR:O	2.35	0.58
31:A7:28:ARG:O	31:A7:31:LEU:CB	2.50	0.58
33:A9:23:VAL:O	33:A9:24:LEU:HD23	2.04	0.58
2:AA:1027:A:OP2	2:AA:1027:A:C8	2.57	0.58
2:AA:1137:G:H21	12:AM:86:MET:CE	2.17	0.58
2:AA:991:C:OP2	2:AA:1186:G:OP2	2.21	0.58
2:AA:550:G:O2'	2:AA:1220:A:C2	2.50	0.58
2:AA:1271:G:H3'	2:AA:1271:G:H8	1.68	0.58
2:AA:1433:U:O5'	2:AA:1433:U:H6	1.85	0.58
2:AA:1465:G:N3	2:AA:1466:G:C8	2.71	0.58
2:AA:1528:A:H2'	2:AA:1529:A:C4'	2.33	0.58
2:AA:1690:A:N3	2:AA:1690:A:C2'	2.63	0.58
2:AA:1711:C:H2'	2:AA:1712:C:C6	2.37	0.58
2:AA:2011:U:C2'	2:AA:2012:G:H5'	2.34	0.58
2:AA:2018:G:OP1	2:AA:2019:A:OP2	2.21	0.58
2:AA:2045:C:C2'	2:AA:2046:G:O5'	2.50	0.58
2:AA:204:A:O2'	2:AA:205:G:P	2.61	0.58
2:AA:196:A:H3'	2:AA:2068:U:O4	2.03	0.58
2:AA:220:G:H1'	2:AA:234:C:H1'	1.85	0.58
2:AA:220:G:N2	2:AA:427:U:H2'	2.18	0.58
2:AA:2305:A:N6	2:AA:2311:A:C2	2.69	0.58
2:AA:827:U:C6	2:AA:2430:A:C2	2.92	0.58
2:AA:2544:G:O2'	2:AA:2545:G:H5'	2.03	0.58
2:AA:2617:C:C2	2:AA:2618:G:C8	2.91	0.58
2:AA:2657:A:N7	2:AA:2658:C:C5	2.70	0.58
2:AA:270(O):U:OP1	2:AA:270(P):C:C4	2.57	0.58
2:AA:278:A:C2	2:AA:362:U:C4	2.90	0.58
2:AA:2792:G:C2	2:AA:2793:G:N1	2.72	0.58
2:AA:391:G:O2'	2:AA:392:C:H5'	2.04	0.58
2:AA:557:U:C5'	12:AM:92:GLN:NE2	2.64	0.58
2:AA:572:A:C5	2:AA:573:G:C2	2.92	0.58
2:AA:588:U:C4	2:AA:589:C:C5	2.90	0.58
2:AA:698:C:C6	2:AA:698:C:H5'	2.36	0.58
2:AA:753:C:H2'	2:AA:754:C:O5'	2.04	0.58
2:AA:760:G:C2'	2:AA:761:A:H5'	2.33	0.58
2:AA:788:A:O2'	2:AA:789:A:OP2	2.18	0.58
2:AA:81:G:H2'	2:AA:82:G:H5'	1.84	0.58
2:AA:953:A:H2'	2:AA:954:G:C5'	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:972:G:H3'	2:AA:973:A:O3'	2.02	0.58
1:AB:62:C:C2	1:AB:63:G:C8	2.91	0.58
4:AD:168:GLY:CA	4:AD:170:TYR:CE2	2.85	0.58
5:AE:180:ILE:HA	5:AE:183:ASP:OD1	2.03	0.58
2:AA:2730:C:C4'	5:AE:265:ASN:ND2	2.61	0.58
6:AF:153:VAL:HG12	6:AF:157:LEU:HD11	1.83	0.58
6:AF:84:VAL:HB	6:AF:85:LYS:CD	2.32	0.58
8:AH:106:VAL:HG12	8:AH:108:TYR:CZ	2.38	0.58
8:AH:37:HIS:CD2	8:AH:40:MET:HG2	2.37	0.58
8:AH:8:ILE:CG2	8:AH:9:GLU:N	2.67	0.58
9:AJ:71:ILE:HD11	11:AL:62:GLU:H	1.68	0.58
10:AK:7:LYS:C	10:AK:12:LYS:HA	2.23	0.58
11:AL:100:VAL:CG1	11:AL:101:THR:H	2.12	0.58
12:AM:52:GLN:HG2	12:AM:55:GLU:OE2	2.04	0.58
13:AN:49:GLY:HA2	13:AN:53:LYS:HG2	1.85	0.58
14:AO:56:LYS:O	14:AO:57:VAL:HB	2.03	0.58
14:AO:73:VAL:O	14:AO:74:THR:C	2.41	0.58
15:AP:66:ASN:CB	15:AP:70:ARG:NH2	2.53	0.58
16:AQ:116:PHE:HA	16:AQ:119:GLN:OE1	2.03	0.58
16:AQ:31:LYS:O	16:AQ:52:PRO:HD2	2.02	0.58
18:AS:95:ILE:HG22	18:AS:96:ILE:N	2.18	0.58
19:AT:17:ASP:HA	19:AT:20:PHE:CE1	2.39	0.58
19:AT:56:ASN:ND2	19:AT:62:LYS:CE	2.66	0.58
15:AP:35:ASN:ND2	21:AV:114:ASP:N	2.47	0.58
21:AV:68:ALA:HB3	21:AV:82:ASP:CB	2.33	0.58
22:AW:51:LYS:O	22:AW:55:ARG:HD2	2.02	0.58
22:AW:7:GLU:OE1	22:AW:8:ILE:CG1	2.51	0.58
36:B1:67:U:C2'	36:B1:68:U:H5'	2.32	0.58
34:BA:1008:C:N4	34:BA:1021:G:H1	2.01	0.58
34:BA:1144:G:H2'	34:BA:1144:G:N3	2.18	0.58
34:BA:1227:A:O2'	48:BP:115:LYS:NZ	2.23	0.58
34:BA:1326:C:OP1	56:BX:12:LYS:NZ	2.36	0.58
34:BA:1355:G:N3	34:BA:1356:G:C8	2.72	0.58
34:BA:1511:G:C2'	34:BA:1512:U:H5'	2.33	0.58
34:BA:132:C:H42	34:BA:230:G:H1	1.46	0.58
34:BA:259:G:H21	34:BA:260:G:H1'	1.69	0.58
34:BA:248:C:O2'	34:BA:283:C:H4'	2.04	0.58
34:BA:591:U:OP1	43:BK:30:ARG:CZ	2.51	0.58
34:BA:690:G:H2'	34:BA:691:G:C5'	2.33	0.58
34:BA:839:U:O2	34:BA:839:U:H2'	2.04	0.58
34:BA:853:G:O2'	34:BA:854:G:H5'	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:866:C:C5	34:BA:867:G:N9	2.71	0.58
34:BA:943:U:H2'	34:BA:944:G:H5'	1.85	0.58
35:BC:9:A:C2	35:BC:46:G:N7	2.71	0.58
37:BE:75:LYS:HA	37:BE:78:GLN:HE21	1.66	0.58
37:BE:77:ALA:HB1	37:BE:80:ILE:HD12	1.85	0.58
39:BG:151:LYS:CD	39:BG:151:LYS:H	2.14	0.58
41:BI:26:ILE:CG2	41:BI:30:LEU:HD11	2.32	0.58
42:BJ:142:GLU:O	42:BJ:143:ARG:C	2.40	0.58
42:BJ:140:ASP:HA	42:BJ:143:ARG:NH1	2.18	0.58
45:BM:72:VAL:O	45:BM:73:ASP:HB2	2.01	0.58
46:BN:27:ASN:CG	46:BN:55:LYS:HD2	2.23	0.58
46:BN:77:MET:HE3	46:BN:79:SER:O	2.02	0.58
34:BA:35:G:N3	47:BO:118:SER:OG	2.36	0.58
47:BO:69:TYR:O	47:BO:100:ILE:HG12	2.03	0.58
51:BS:20:VAL:HG12	51:BS:21:VAL:N	2.17	0.58
52:BT:5:VAL:HG13	52:BT:59:ILE:C	2.24	0.58
55:BW:17:ARG:O	55:BW:20:LEU:HB2	2.02	0.58
55:BW:26:ASN:N	55:BW:26:ASN:HD22	2.01	0.58
55:BW:64:ASP:O	55:BW:67:ALA:CB	2.46	0.58
35:BB:29:A:C6	35:BB:30:G:C5	2.92	0.58
35:BB:43:G:C8	35:BB:43:G:H5''	2.38	0.58
10:AK:114:LYS:HZ2	10:AK:133:LEU:HD23	1.69	0.58
10:AK:77:VAL:HG21	10:AK:143:VAL:HG22	1.85	0.58
36:B1:30:U:H2'	36:B1:31:G:C5'	2.31	0.58
38:BF:75:VAL:HG12	38:BF:75:VAL:O	2.03	0.58
20:AU:25:ALA:O	20:AU:26:THR:HG23	2.03	0.58
10:AK:56:ARG:O	10:AK:60:GLU:HB3	2.03	0.58
25:A1:104:GLU:O	25:A1:107:LYS:HB2	2.04	0.58
2:AA:994:C:OP2	25:A1:54:LYS:HE3	2.03	0.58
25:A1:97:ASP:O	25:A1:101:ARG:CG	2.39	0.58
26:A2:42:GLY:O	26:A2:54:TYR:OH	2.19	0.58
27:A3:26:PHE:O	27:A3:60:PHE:CG	2.56	0.58
2:AA:1059:G:OP1	9:AI:2:THR:CG2	2.50	0.58
2:AA:1210:A:H1'	2:AA:1212:G:H21	1.67	0.58
2:AA:1227:A:C2'	2:AA:1228:G:H5''	2.34	0.58
2:AA:1238:G:H2'	2:AA:1239:G:C5'	2.34	0.58
2:AA:1344:G:N2	2:AA:1404:C:H1'	2.17	0.58
2:AA:1544:C:C3'	2:AA:1544:C:OP2	2.38	0.58
2:AA:1576:U:C5	2:AA:1577:C:C2	2.91	0.58
2:AA:1675:C:C2'	2:AA:1675:C:O2	2.42	0.58
2:AA:1703:G:C2	2:AA:1704:G:N9	2.72	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1680:U:O2	2:AA:1764:G:O5'	2.21	0.58
2:AA:1780:A:C3'	2:AA:1781:C:H5''	2.32	0.58
2:AA:1842:G:O2'	2:AA:1843:C:H5'	2.04	0.58
2:AA:2043:C:C2'	2:AA:2043:C:O2	2.50	0.58
2:AA:2056:G:O5'	2:AA:2057:A:OP2	2.21	0.58
2:AA:2213:U:H5'	2:AA:2215:G:C5	2.37	0.58
2:AA:2269:A:H2'	2:AA:2270:G:H8	1.66	0.58
2:AA:2331:G:C5	2:AA:2332:U:N3	2.71	0.58
2:AA:2386:C:H2'	2:AA:2387:U:C5	2.38	0.58
2:AA:2414:G:H2'	2:AA:2415:G:C8	2.38	0.58
2:AA:2397:G:C2	2:AA:2420:C:H1'	2.38	0.58
2:AA:2397:G:H22	2:AA:2420:C:H1'	1.63	0.58
2:AA:2510:C:N3	2:AA:2578:G:C6	2.71	0.58
2:AA:2542:A:C4'	2:AA:2543:G:OP1	2.51	0.58
2:AA:25:U:H4'	18:AS:79:GLY:HA2	1.85	0.58
2:AA:2639:A:N3	2:AA:2778:A:C2	2.72	0.58
2:AA:2687:U:N3	2:AA:2688:U:H6	2.00	0.58
2:AA:278:A:H2'	2:AA:279:C:OP2	2.03	0.58
2:AA:2791:C:C2	2:AA:2805:G:C6	2.91	0.58
2:AA:294:A:O2'	20:AU:15:PRO:HG2	2.04	0.58
2:AA:319:C:H2'	2:AA:320:A:C8	2.38	0.58
2:AA:38:A:H2'	2:AA:39:C:H6	1.68	0.58
2:AA:459:U:H5	2:AA:469:G:N2	2.02	0.58
2:AA:530:G:N1	2:AA:2021:C:C4'	2.65	0.58
2:AA:546:C:H41	2:AA:1221:C:P	2.24	0.58
2:AA:550:G:H2'	2:AA:1220:A:H2	1.68	0.58
2:AA:637:A:C2	2:AA:651:G:H4'	2.39	0.58
2:AA:697:C:H2'	2:AA:698:C:C5	2.37	0.58
2:AA:685:A:C5	2:AA:774:A:C6	2.92	0.58
2:AA:838:C:O2'	2:AA:839:U:H5'	2.03	0.58
2:AA:961:C:N4	2:AA:2031:A:C4	2.71	0.58
2:AA:977:G:N7	2:AA:987:G:C2	2.72	0.58
3:AC:103:ILE:HB	3:AC:127:LEU:CD1	2.33	0.58
3:AC:131:LEU:C	3:AC:133:PRO:HD2	2.24	0.58
3:AC:30:LYS:HE3	3:AC:178:ALA:O	2.02	0.58
4:AD:104:ILE:O	4:AD:106:PRO:CD	2.50	0.58
4:AD:66:PHE:HD2	4:AD:67:LYS:CE	2.09	0.58
6:AF:103:ASN:HB2	6:AF:106:GLU:CD	2.24	0.58
6:AF:195:VAL:HG21	6:AF:235:PHE:CE2	2.38	0.58
8:AH:75:VAL:O	8:AH:77:GLY:N	2.36	0.58
9:AI:78:ARG:NH1	9:AI:85:LEU:HD22	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:107:GLU:OE2	11:AL:108:ILE:HG13	2.03	0.58
11:AL:116:LEU:HD22	11:AL:117:ASN:OD1	2.03	0.58
12:AM:27:ALA:O	12:AM:29:GLN:N	2.36	0.58
14:AO:110:GLY:O	14:AO:111:ALA:O	2.21	0.58
15:AP:87:LYS:HB2	15:AP:122:PHE:HE2	1.67	0.58
15:AP:26:LYS:HD2	15:AP:89:PRO:CG	2.33	0.58
15:AP:45:GLN:CB	15:AP:152:SER:HB3	2.33	0.58
16:AQ:123:ILE:HG22	16:AQ:124:ASP:N	2.17	0.58
16:AQ:23:ARG:O	16:AQ:24:LEU:C	2.41	0.58
19:AT:5:ILE:CG2	19:AT:6:LYS:H	2.16	0.58
21:AV:51:LEU:HD21	21:AV:64:ALA:C	2.24	0.58
21:AV:14:LEU:HD11	21:AV:80:HIS:NE2	2.18	0.58
34:BA:1348:U:O2	34:BA:1348:U:H2'	2.02	0.58
34:BA:1382:C:H2'	34:BA:1383:C:H6	1.69	0.58
34:BA:1476:G:O5'	34:BA:1476:G:H8	1.85	0.58
34:BA:1484:C:H2'	34:BA:1485:U:O4'	2.03	0.58
34:BA:1486:G:C6	34:BA:1487:G:C6	2.91	0.58
34:BA:1537:U:H2'	34:BA:1538:C:O4'	2.02	0.58
34:BA:188:C:N3	34:BA:189:G:C8	2.72	0.58
34:BA:231:G:O2'	34:BA:232:G:H5'	2.03	0.58
34:BA:115:G:C6	34:BA:289:G:N7	2.72	0.58
34:BA:340:U:O2'	34:BA:341:C:H5'	2.03	0.58
34:BA:706:A:C4'	46:BN:29:ILE:HD11	2.32	0.58
34:BA:859:A:H2'	34:BA:860:A:O5'	2.02	0.58
34:BA:953:G:H1	34:BA:1228:C:N4	2.00	0.58
34:BA:518:C:H42	35:BB:34:G:N2	2.01	0.58
35:BB:50:U:C2	35:BB:65:G:C2	2.91	0.58
35:BC:19:G:H3'	35:BC:20:G:C8	2.39	0.58
37:BE:23:ARG:NH1	37:BE:24:TRP:O	2.32	0.58
38:BF:28:GLN:N	38:BF:30:ARG:NH1	2.50	0.58
40:BH:107:ARG:HG2	40:BH:111:GLU:HG3	1.86	0.58
34:BA:1398:A:N6	40:BH:21:ALA:HA	2.17	0.58
41:BI:46:ARG:NH1	53:BU:37:VAL:HG21	2.18	0.58
41:BI:3:ARG:C	41:BI:4:TYR:HD2	2.06	0.58
41:BI:50:TYR:HD1	53:BU:80:PRO:HA	1.68	0.58
42:BJ:104:LEU:HA	42:BJ:134:ALA:CB	2.29	0.58
42:BJ:140:ASP:HA	42:BJ:143:ARG:HH11	1.69	0.58
42:BJ:14:PRO:HD3	42:BJ:21:VAL:HG12	1.84	0.58
42:BJ:77:SER:C	42:BJ:156:TRP:CZ3	2.76	0.58
42:BJ:95:ARG:O	42:BJ:96:GLN:C	2.41	0.58
43:BK:4:ASP:CG	43:BK:6:ILE:HG22	2.22	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1254:C:OP1	45:BM:45:ARG:CD	2.51	0.58
45:BM:51:ARG:HH11	49:BQ:45:ARG:HH12	1.51	0.58
46:BN:42:TRP:HZ3	46:BN:47:VAL:HG22	1.68	0.58
49:BQ:9:LYS:CE	49:BQ:10:ALA:HB2	2.33	0.58
50:BR:34:LEU:HG	50:BR:38:ARG:CD	2.26	0.58
51:BS:7:ALA:CB	51:BS:9:PHE:HE2	2.17	0.58
34:BA:127:G:O3'	52:BT:2:PRO:HD2	2.04	0.58
54:BV:25:LYS:HD2	54:BV:25:LYS:H	1.69	0.58
55:BW:32:ALA:O	55:BW:33:ILE:C	2.38	0.58
35:BB:37:G:H2'	35:BB:38:A:C5'	2.33	0.58
10:AK:125:GLY:O	10:AK:143:VAL:O	2.21	0.58
10:AK:94:THR:O	10:AK:96:LYS:N	2.36	0.58
36:B1:14:U:H5''	36:B1:38:C:N4	2.19	0.58
34:BA:805:C:N3	34:BA:806:C:C5	2.71	0.58
25:A1:65:ILE:HG22	25:A1:66:ASN:N	2.18	0.58
25:A1:79:PHE:HB3	25:A1:83:LEU:HD12	1.84	0.58
26:A2:18:ASP:OD2	26:A2:94:LYS:HE2	2.03	0.58
30:A6:42:PRO:HG2	30:A6:44:ALA:HB3	1.84	0.58
31:A7:4:THR:N	31:A7:6:GLN:NE2	2.52	0.58
32:A8:4:MET:HA	32:A8:5:LYS:NZ	2.19	0.58
2:AA:1170:G:H1	2:AA:1180:C:N4	2.01	0.58
2:AA:1238:G:C5	2:AA:1239:G:C8	2.91	0.58
2:AA:1379:A:C2	2:AA:1380:G:OP1	2.57	0.58
2:AA:1563:G:C4	2:AA:1564:C:C6	2.92	0.58
2:AA:1913:A:H2'	2:AA:1913:A:N3	2.16	0.58
2:AA:2058:A:C4	2:AA:2059:A:N7	2.72	0.58
2:AA:2278:A:N1	2:AA:2279:G:C5	2.72	0.58
2:AA:2282:G:H4'	2:AA:2283:C:O5'	2.04	0.58
2:AA:2358:G:OP1	2:AA:2358:G:H8	1.86	0.58
2:AA:2361:A:C2'	2:AA:2362:G:H5'	2.33	0.58
2:AA:2497:A:O2'	2:AA:2498:C:P	2.61	0.58
2:AA:2498:C:C3'	2:AA:2499:C:H5''	2.34	0.58
2:AA:2543:G:N7	2:AA:2544:G:C6	2.72	0.58
2:AA:2564:A:C6	2:AA:2565:A:N6	2.71	0.58
2:AA:2568:C:O2	2:AA:2569:G:C8	2.57	0.58
2:AA:239:U:C1'	2:AA:259:G:N2	2.66	0.58
2:AA:2605:U:O2'	2:AA:2606:C:H5'	2.04	0.58
2:AA:2660:A:H8	2:AA:2660:A:O5'	1.87	0.58
2:AA:2678:C:N3	2:AA:2679:A:C8	2.72	0.58
2:AA:2870:C:O2	2:AA:2871:C:H1'	2.04	0.58
2:AA:511:U:C4	2:AA:512:G:N3	2.72	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:530:G:C1'	2:AA:532:A:OP2	2.51	0.58
2:AA:567:A:C2	2:AA:568:U:C1'	2.86	0.58
2:AA:65:C:N3	2:AA:66:C:C5	2.71	0.58
2:AA:791:C:C2'	2:AA:792:G:H5'	2.33	0.58
2:AA:196:A:C2	2:AA:805:G:N1	2.71	0.58
2:AA:819:A:C4	2:AA:820:A:C8	2.91	0.58
2:AA:932:G:H2'	2:AA:933:A:C8	2.37	0.58
2:AA:994:C:O2	25:A1:53:LYS:CB	2.49	0.58
1:AB:33:G:H1	1:AB:49:C:H42	1.51	0.58
3:AC:115:ALA:HB2	3:AC:138:PRO:CG	2.33	0.58
3:AC:54:SER:HA	3:AC:57:ASN:ND2	2.19	0.58
4:AD:143:ILE:HD13	4:AD:153:LEU:O	2.03	0.58
4:AD:208:GLY:O	4:AD:211:HIS:ND1	2.36	0.58
4:AD:95:TYR:O	4:AD:96:ALA:C	2.41	0.58
5:AE:318:ASN:C	5:AE:320:GLN:H	2.07	0.58
7:AG:103:ASN:OD1	7:AG:134:LEU:N	2.37	0.58
7:AG:78:GLU:O	7:AG:81:GLU:HB2	2.04	0.58
2:AA:2667:C:O2	8:AH:108:TYR:CA	2.52	0.58
8:AH:166:GLU:HA	8:AH:166:GLU:OE2	2.02	0.58
9:AI:70:LYS:O	9:AI:74:ILE:HG13	2.03	0.58
9:AJ:110:GLU:HA	9:AJ:113:GLU:OE1	2.02	0.58
9:AJ:73:VAL:HG22	9:AJ:121:ALA:C	2.23	0.58
9:AJ:62:VAL:HG22	9:AJ:101:VAL:CA	2.33	0.58
9:AJ:66:PHE:CZ	9:AJ:92:VAL:HG22	2.38	0.58
10:AK:29:PHE:HD2	10:AK:30:LEU:HD21	1.68	0.58
12:AM:57:TYR:O	12:AM:60:ARG:HB2	2.04	0.58
15:AP:132:VAL:O	15:AP:135:ALA:HB3	2.04	0.58
13:AN:79:PHE:CD2	17:AR:22:VAL:HG23	2.39	0.58
18:AS:21:VAL:HG23	18:AS:22:ASP:N	2.18	0.58
18:AS:29:LEU:C	18:AS:33:ARG:HG3	2.24	0.58
18:AS:89:ALA:C	18:AS:91:GLY:N	2.48	0.58
20:AU:30:ASP:O	20:AU:33:GLU:CD	2.40	0.58
21:AV:18:MET:CA	21:AV:35:ASP:HA	2.27	0.58
21:AV:79:ILE:HG22	21:AV:80:HIS:CD2	2.38	0.58
21:AV:96:VAL:HG12	21:AV:97:PRO:N	2.19	0.58
22:AW:5:VAL:HG12	22:AW:6:GLN:N	2.17	0.58
23:AX:49:LYS:O	23:AX:51:ALA:N	2.37	0.58
34:BA:1007:C:N4	34:BA:1022:G:C6	2.71	0.58
34:BA:1065:U:O2'	34:BA:1066:C:P	2.61	0.58
34:BA:1320:C:H42	54:BV:36:ARG:HH11	1.47	0.58
34:BA:132:C:N4	34:BA:230:G:N1	2.46	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1538:C:O2'	34:BA:1539:C:H5'	2.03	0.58
34:BA:118:U:O4	34:BA:289:G:P	2.61	0.58
34:BA:592:G:C2	34:BA:593:G:C8	2.92	0.58
34:BA:657:G:N2	34:BA:750:G:N9	2.52	0.58
34:BA:802:A:N6	34:BA:803:G:C2	2.71	0.58
34:BA:833:U:H3	34:BA:853:G:H1	1.50	0.58
34:BA:891:U:H5	34:BA:906:G:C2	2.22	0.58
34:BA:983:A:H5'	34:BA:984:C:OP2	2.03	0.58
35:BB:56:C:H6	35:BB:56:C:O5'	1.86	0.58
35:BC:33:U:C6	35:BC:33:U:C3'	2.86	0.58
39:BG:119:GLN:O	39:BG:122:ARG:HB2	2.04	0.58
41:BI:67:MET:CE	41:BI:69:GLU:O	2.50	0.58
42:BJ:121:ALA:HB1	42:BJ:125:MET:HE2	1.86	0.58
42:BJ:31:MET:SD	42:BJ:36:LYS:NZ	2.76	0.58
43:BK:26:VAL:N	43:BK:58:TYR:HE2	2.01	0.58
34:BA:1147:C:O2	44:BL:16:ARG:NH2	2.37	0.58
45:BM:20:ALA:O	45:BM:24:VAL:HG23	2.02	0.58
46:BN:16:SER:N	46:BN:77:MET:SD	2.76	0.58
48:BP:34:LEU:HD23	48:BP:39:ILE:CD1	2.33	0.58
48:BP:91:ARG:NH1	48:BP:97:PRO:O	2.36	0.58
48:BP:92:HIS:ND1	48:BP:98:VAL:HG21	2.17	0.58
34:BA:668:G:O2'	50:BR:46:HIS:CE1	2.56	0.58
50:BR:83:GLU:C	50:BR:83:GLU:OE1	2.42	0.58
1:AB:12:C:C6	27:A3:53:MET:SD	2.96	0.58
36:B1:23:U:H3'	36:B1:24:A:C8	2.39	0.58
24:A0:75:LEU:O	24:A0:78:LYS:HB3	2.03	0.58
2:AA:1364:G:P	28:A4:3:LYS:CG	2.92	0.58
28:A4:48:ARG:HG2	28:A4:49:PHE:N	2.11	0.58
33:A9:25:VAL:HB	33:A9:34:GLN:CB	2.31	0.58
2:AA:443:A:C1'	2:AA:1201:C:H5'	2.34	0.58
2:AA:811:U:O2'	2:AA:1251:C:H1'	2.03	0.58
2:AA:1303:G:H22	2:AA:1626:G:H1'	1.66	0.58
2:AA:1270:C:O2	2:AA:1325:G:C8	2.57	0.58
2:AA:1418:G:C2'	2:AA:1419:A:OP1	2.50	0.58
2:AA:1428:C:HO2'	2:AA:1429:G:P	2.26	0.58
2:AA:146:G:C6	2:AA:147:U:C2	2.92	0.58
2:AA:1538:G:H2'	2:AA:1539:G:C1'	2.33	0.58
2:AA:1556:C:H2'	2:AA:1557:C:H6	1.63	0.58
2:AA:1613:G:H2'	2:AA:1614:A:OP1	2.04	0.58
2:AA:1676:A:C4	2:AA:1677:A:C8	2.92	0.58
2:AA:1698:A:OP2	2:AA:1698:A:H4'	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1699:G:O6	2:AA:1763:G:N9	2.36	0.58
2:AA:1906:G:C8	2:AA:1929:G:H2'	2.38	0.58
2:AA:1900:A:H2	2:AA:1970:A:N1	2.01	0.58
2:AA:2063:C:H2'	2:AA:2064:C:O5'	2.03	0.58
2:AA:2207:C:C3'	2:AA:2208:U:H5'	2.32	0.58
2:AA:2227:A:N1	2:AA:2228:G:C5	2.71	0.58
2:AA:1853:A:H1'	2:AA:2233:U:O2'	2.03	0.58
2:AA:2252:G:C8	2:AA:2252:G:O5'	2.54	0.58
2:AA:2253:G:C4	2:AA:2254:C:C5	2.91	0.58
2:AA:2291:U:H2'	2:AA:2292:C:H6	1.64	0.58
2:AA:2334:G:OP2	16:AQ:13:ARG:CG	2.50	0.58
2:AA:2434:A:O2'	2:AA:2435:A:H5''	2.03	0.58
2:AA:245:G:C5	2:AA:246:C:H5	2.22	0.58
2:AA:1129:A:H4'	2:AA:2516:G:H5'	1.85	0.58
2:AA:2648:C:H2'	2:AA:2649:U:C6	2.39	0.58
2:AA:2810:A:N6	2:AA:2891:G:C2	2.72	0.58
2:AA:360:G:O2'	2:AA:361:G:C5'	2.52	0.58
2:AA:386:G:HO2'	2:AA:387:U:P	2.26	0.58
2:AA:37:C:C4'	2:AA:451:C:H5''	2.33	0.58
2:AA:484:C:H2'	2:AA:485:C:C5	2.34	0.58
2:AA:572:A:N6	2:AA:573:G:H1	2.00	0.58
2:AA:746:A:OP1	2:AA:2612:C:C2	2.56	0.58
2:AA:778:G:C6	2:AA:779:U:O2	2.57	0.58
2:AA:871:U:O4'	15:AP:90:PHE:HE2	1.86	0.58
4:AD:107:LYS:HB3	4:AD:193:GLU:CB	2.33	0.58
4:AD:128:ALA:O	4:AD:129:LEU:HD12	2.04	0.58
4:AD:89:ASN:HD21	4:AD:199:ARG:NH2	1.99	0.58
5:AE:257:GLY:C	5:AE:258:TYR:HD2	2.07	0.58
5:AE:299:SER:C	5:AE:301:PRO:HD3	2.23	0.58
6:AF:81:PRO:O	6:AF:82:GLN:CD	2.42	0.58
11:AL:21:ALA:HB3	11:AL:22:PRO:CD	2.33	0.58
2:AA:1076:C:H4'	11:AL:94:ARG:NH1	2.17	0.58
12:AM:10:VAL:HG12	12:AM:12:VAL:HG23	1.86	0.58
14:AO:62:ALA:CB	14:AO:105:TYR:HB2	2.33	0.58
15:AP:61:LEU:HD23	15:AP:61:LEU:N	2.18	0.58
7:AG:146:LYS:HD2	16:AQ:15:GLU:OE2	2.03	0.58
17:AR:46:ALA:O	17:AR:49:LEU:N	2.33	0.58
19:AT:51:GLN:O	19:AT:66:VAL:HA	2.03	0.58
20:AU:105:ASP:OD1	20:AU:108:ARG:HD2	2.03	0.58
20:AU:72:ILE:HG22	20:AU:73:HIS:N	2.18	0.58
21:AV:17:SER:N	21:AV:36:ARG:NH2	2.52	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AW:9:ARG:HB2	22:AW:59:ILE:HD11	1.86	0.58
23:AX:51:ALA:O	23:AX:52:HIS:C	2.42	0.58
34:BA:1072:G:H2'	34:BA:1073:U:O4'	2.04	0.58
34:BA:116:A:O5'	34:BA:116:A:H8	1.87	0.58
34:BA:1319:A:H4'	54:BV:70:LYS:NZ	2.19	0.58
34:BA:1328:C:H2'	34:BA:1329:A:C8	2.39	0.58
34:BA:1508:G:H1	34:BA:1527:C:H42	1.50	0.58
34:BA:258:G:HO2'	34:BA:259:G:C5'	2.17	0.58
34:BA:509:A:C2'	34:BA:510:A:O5'	2.52	0.58
34:BA:616:G:C2	34:BA:617:G:C8	2.91	0.58
34:BA:690:G:O2'	34:BA:691:G:H5'	2.04	0.58
34:BA:770:C:C4'	34:BA:900:A:H2	2.17	0.58
34:BA:956:U:O2'	34:BA:957:U:H5'	2.02	0.58
37:BE:149:LEU:O	37:BE:150:SER:C	2.42	0.58
37:BE:15:VAL:HG23	37:BE:16:HIS:ND1	2.19	0.58
37:BE:222:ILE:CG1	37:BE:226:ARG:HE	2.17	0.58
38:BF:19:GLU:HG2	38:BF:54:ARG:CG	2.34	0.58
38:BF:95:THR:CB	38:BF:97:LYS:HG2	2.32	0.58
39:BG:10:ARG:HA	39:BG:13:ARG:HG3	1.85	0.58
34:BA:8:A:C1'	40:BH:102:ALA:O	2.47	0.58
40:BH:47:LYS:O	40:BH:57:LYS:NZ	2.35	0.58
41:BI:28:ARG:CG	41:BI:28:ARG:HH11	2.16	0.58
41:BI:57:GLN:O	41:BI:57:GLN:NE2	2.36	0.58
44:BL:5:TYR:HD2	44:BL:6:GLY:N	2.01	0.58
44:BL:97:LYS:O	44:BL:100:GLY:HA2	2.04	0.58
46:BN:108:ILE:HG22	53:BU:87:ARG:O	2.04	0.58
34:BA:692:U:C5	46:BN:26:ASN:ND2	2.56	0.58
47:BO:28:LYS:CD	47:BO:33:ARG:NH1	2.60	0.58
47:BO:6:THR:HG23	47:BO:9:GLN:OE1	2.03	0.58
51:BS:75:ARG:HA	51:BS:80:PHE:CD1	2.39	0.58
52:BT:45:HIS:NE2	52:BT:47:PRO:CG	2.55	0.58
52:BT:81:ARG:HG2	52:BT:84:LEU:HG	1.85	0.58
53:BU:18:ARG:NH2	53:BU:21:LYS:HD3	2.18	0.58
10:AK:93:ILE:HA	10:AK:97:GLN:OE1	2.03	0.58
2:AA:1505:C:O2	2:AA:1505:C:H2'	2.03	0.58
23:AX:1:MET:HE1	23:AX:3:ARG:HD2	1.86	0.58
36:B1:20:A:N1	36:B1:34:U:O2	2.36	0.58
27:A3:4:LYS:HZ1	27:A3:11:LYS:NZ	2.00	0.58
2:AA:29:U:C4'	25:A1:11:ARG:HH12	2.09	0.58
28:A4:61:LYS:O	28:A4:65:ASP:CG	2.41	0.58
2:AA:16:G:H5'	29:A5:18:MET:SD	2.44	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:A8:17:THR:OG1	32:A8:19:THR:OG1	2.14	0.58
32:A8:21:LYS:HA	32:A8:57:ARG:NH2	2.17	0.58
2:AA:1054:A:H2'	2:AA:1055:G:N7	2.18	0.58
2:AA:1058:G:O4'	9:AI:6:ILE:HD11	2.03	0.58
2:AA:1225:C:OP1	26:A2:87:ARG:CB	2.49	0.58
2:AA:1291:C:H2'	2:AA:1292:U:H5'	1.86	0.58
2:AA:1296:G:C6	2:AA:1297:C:C4	2.92	0.58
2:AA:1316:U:H2'	2:AA:1317:A:C8	2.39	0.58
2:AA:1462:C:H4'	2:AA:2703:C:H5'	1.85	0.58
2:AA:1523:U:C4	2:AA:1524:G:C5	2.91	0.58
2:AA:152:G:O6	2:AA:175:G:C6	2.57	0.58
2:AA:1572:A:C8	2:AA:1572:A:OP1	2.57	0.58
2:AA:1683:C:N4	2:AA:1684:C:N4	2.50	0.58
2:AA:1778:U:C6	2:AA:1784:A:H2	2.21	0.58
2:AA:1798:U:H3	2:AA:1821:A:H61	1.50	0.58
2:AA:1900:A:O2'	2:AA:1901:A:OP2	2.19	0.58
2:AA:1907:G:C4	2:AA:1908:C:C5	2.91	0.58
2:AA:1907:G:H2'	2:AA:1908:C:C6	2.38	0.58
2:AA:1944:U:C2'	2:AA:1945:G:OP1	2.51	0.58
2:AA:1978:A:C5	2:AA:1979:C:C5	2.92	0.58
2:AA:1995:U:H6	2:AA:1995:U:C5'	2.13	0.58
2:AA:2002:G:N1	2:AA:2003:G:C8	2.72	0.58
2:AA:2024:G:C4	2:AA:2025:C:C6	2.92	0.58
2:AA:2040:C:O2	2:AA:2040:C:H2'	2.02	0.58
2:AA:2083:G:C2	2:AA:2084:C:C2	2.91	0.58
2:AA:2105:C:H2'	2:AA:2106:G:C8	2.38	0.58
2:AA:2116:G:N3	2:AA:2116:G:H3'	2.18	0.58
2:AA:2207:C:C4	2:AA:2208:U:C5	2.92	0.58
2:AA:2333:A:H1'	2:AA:2335:A:C5	2.39	0.58
2:AA:2362:G:H2'	2:AA:2363:C:O4'	2.03	0.58
2:AA:2329:G:N1	2:AA:2386:C:N4	2.52	0.58
2:AA:2447:G:O2'	2:AA:2448:A:P	2.62	0.58
2:AA:2524:G:O2'	2:AA:2741:A:C2	2.54	0.58
2:AA:2597:G:H5''	2:AA:2598:A:OP2	2.04	0.58
2:AA:2605:U:O2'	2:AA:2606:C:H5''	2.04	0.58
2:AA:260:G:C6	2:AA:261:G:N7	2.71	0.58
2:AA:2691:C:O4'	2:AA:2872:G:N7	2.36	0.58
2:AA:270(F):U:H2'	2:AA:270(G):C:O4'	2.04	0.58
2:AA:2832:U:C5'	2:AA:2832:U:C6	2.83	0.58
2:AA:2838:G:H1	2:AA:2880:C:H42	0.71	0.58
2:AA:306:U:C5	2:AA:307:G:C8	2.92	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:430:G:H8	2:AA:430:G:OP2	1.87	0.58
2:AA:623:G:C8	2:AA:624:C:C5	2.92	0.58
2:AA:641:C:O2'	2:AA:642:G:H5'	2.03	0.58
2:AA:723:G:N2	2:AA:724:U:H1'	2.19	0.58
2:AA:738:G:C5	2:AA:739:G:N3	2.71	0.58
2:AA:80:G:O5'	2:AA:80:G:H8	1.86	0.58
2:AA:890:A:H5'	2:AA:892:G:H5''	1.85	0.58
2:AA:917:A:H2'	2:AA:918:A:C5'	2.34	0.58
2:AA:977:G:C5	2:AA:987:G:N2	2.71	0.58
1:AB:112:G:H2'	1:AB:112:G:N3	2.19	0.58
1:AB:118:G:H2'	1:AB:119:A:O5'	2.04	0.58
1:AB:25:A:C2'	1:AB:26:A:H5'	2.32	0.58
1:AB:68:C:H2'	1:AB:69:G:O4'	2.04	0.58
1:AB:89:G:C2	1:AB:89(A):A:C6	2.91	0.58
3:AC:104:LEU:HD13	3:AC:126:LYS:NZ	2.18	0.58
3:AC:59:ARG:HG3	3:AC:164:ARG:HB3	1.85	0.58
4:AD:71:ASP:CG	4:AD:118:GLY:CA	2.72	0.58
6:AF:84:VAL:H	6:AF:87:ARG:HE	1.49	0.58
7:AG:45:THR:OG1	7:AG:46:GLY:N	2.36	0.58
8:AH:43:THR:CG2	8:AH:50:THR:O	2.51	0.58
9:AI:63:LEU:CD1	9:AI:102:ILE:HD12	2.30	0.58
9:AI:42:ALA:HB2	9:AJ:42:ALA:CB	2.33	0.58
13:AN:22:ILE:CG2	13:AN:23:LYS:N	2.61	0.58
13:AN:8:LEU:N	13:AN:8:LEU:CD2	2.60	0.58
14:AO:67:ARG:O	14:AO:71:GLU:HG2	2.03	0.58
14:AO:73:VAL:HG13	14:AO:76:LEU:HD23	1.84	0.58
14:AO:71:GLU:O	14:AO:74:THR:N	2.36	0.58
14:AO:92:ASP:OD1	14:AO:93:VAL:N	2.37	0.58
15:AP:136:TRP:CE3	15:AP:136:TRP:HA	2.37	0.58
15:AP:26:LYS:NZ	15:AP:90:PHE:CZ	2.69	0.58
16:AQ:81:ALA:CB	16:AQ:117:ALA:CB	2.82	0.58
16:AQ:124:ASP:O	16:AQ:125:ALA:C	2.42	0.58
16:AQ:76:GLY:O	16:AQ:82:TYR:HB2	2.04	0.58
17:AR:12:ASP:O	17:AR:13:ILE:CG1	2.22	0.58
2:AA:138:G:H1'	19:AT:42:GLU:HG2	1.85	0.58
20:AU:101:LEU:HD22	20:AU:103:LEU:HD21	1.85	0.58
20:AU:84:GLY:O	20:AU:85:GLU:O	2.21	0.58
21:AV:19:ILE:HD13	21:AV:36:ARG:CG	2.33	0.58
34:BA:1118:C:O4'	34:BA:1179:A:H1'	2.03	0.58
34:BA:1255:G:H21	34:BA:1276:G:N2	2.02	0.58
34:BA:1238:A:N6	34:BA:1301:U:H3	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1305:G:H8	34:BA:1305:G:OP2	1.87	0.58
34:BA:1331:G:H2'	34:BA:1332:A:OP2	2.04	0.58
34:BA:1350:A:OP2	44:BL:118:LYS:HD2	2.04	0.58
34:BA:141:A:C1'	34:BA:182:U:H1'	2.32	0.58
34:BA:1515:C:H2'	34:BA:1516:G:C8	2.38	0.58
34:BA:160:A:N7	34:BA:161:A:N7	2.52	0.58
34:BA:187:C:H2'	34:BA:188:C:O4'	2.03	0.58
34:BA:203:U:C5'	34:BA:204:U:OP1	2.52	0.58
34:BA:277:C:P	52:BT:68:ARG:HH12	2.26	0.58
34:BA:280:C:C4'	34:BA:281:G:OP2	2.50	0.58
34:BA:300:A:H8	34:BA:300:A:O5'	1.87	0.58
34:BA:976:G:N7	34:BA:361(A):C:N4	2.51	0.58
34:BA:451:A:C2	34:BA:480:U:C5	2.92	0.58
34:BA:538:G:H2'	34:BA:539:A:O5'	2.04	0.58
34:BA:716:A:C2'	34:BA:717:C:H5'	2.33	0.58
34:BA:766:A:C2'	34:BA:767:A:O5'	2.51	0.58
34:BA:781:A:N6	34:BA:802:A:N3	2.52	0.58
34:BA:820:U:H2'	34:BA:820:U:O2	2.02	0.58
34:BA:79:G:N1	34:BA:91:C:C2	2.71	0.58
34:BA:530:G:C8	35:BB:35:A:H1'	2.27	0.58
37:BE:71:VAL:O	37:BE:164:VAL:HG23	2.04	0.58
38:BF:59:ARG:O	38:BF:60:ALA:HB2	2.03	0.58
39:BG:12:CYS:HB2	39:BG:32:ALA:HB3	1.85	0.58
34:BA:5:U:O4	39:BG:86:LYS:HE3	2.03	0.58
40:BH:75:THR:HA	40:BH:115:VAL:CG1	2.34	0.58
41:BI:3:ARG:HG3	41:BI:65:VAL:O	2.03	0.58
41:BI:82:ARG:O	41:BI:83:ASP:C	2.41	0.58
43:BK:33:GLU:CA	43:BK:36:LEU:HD21	2.29	0.58
44:BL:50:LEU:CD2	44:BL:58:ARG:HH11	2.17	0.58
47:BO:84:LEU:HG	47:BO:85:ILE:N	2.18	0.58
48:BP:10:PRO:CB	48:BP:18:ALA:HB1	2.33	0.58
48:BP:14:ARG:HE	48:BP:42:ALA:HA	1.68	0.58
49:BQ:29:ARG:HH11	49:BQ:29:ARG:HG2	1.68	0.58
38:BF:8:ILE:HG21	49:BQ:50:LYS:O	2.04	0.58
52:BT:59:ILE:CD1	52:BT:72:ARG:C	2.72	0.58
10:AK:79:ILE:O	10:AK:145:VAL:HA	2.03	0.58
35:BB:21:A:C6	35:BB:46:G:C2	2.92	0.58
24:A0:26:LYS:CE	24:A0:70:LEU:O	2.51	0.58
24:A0:80:PHE:O	24:A0:84:ALA:HB3	2.04	0.58
24:A0:87:TYR:HE2	24:A0:118:GLU:OE1	1.87	0.58
25:A1:79:PHE:O	25:A1:83:LEU:HD12	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A1:8:ILE:HD13	25:A1:9:VAL:HG23	1.84	0.58
26:A2:66:GLY:HA2	26:A2:93:ILE:HD12	1.83	0.58
2:AA:1224:G:O2'	26:A2:86:HIS:HA	2.03	0.58
27:A3:39:ARG:HG3	27:A3:39:ARG:O	2.04	0.58
27:A3:25:LYS:HE2	27:A3:57:HIS:O	2.04	0.58
29:A5:50:GLY:HA2	29:A5:57:VAL:CG2	2.33	0.58
29:A5:6:VAL:O	29:A5:7:PRO:O	2.22	0.58
2:AA:1014:U:O2'	2:AA:1015:G:C5'	2.47	0.58
2:AA:1024:G:C2	2:AA:1139:G:N2	2.71	0.58
2:AA:1178:C:H2'	2:AA:1179:C:C6	2.39	0.58
2:AA:1234:U:O4	2:AA:1235:G:N1	2.37	0.58
2:AA:1312:U:H1'	2:AA:1313:U:H5	1.67	0.58
2:AA:1327:C:H2'	2:AA:1328:G:C8	2.38	0.58
2:AA:137(A):G:N1	2:AA:139:G:C2	2.72	0.58
2:AA:1522:G:N2	2:AA:1523:U:C2	2.71	0.58
2:AA:1591:G:C4	2:AA:1592:C:C5	2.92	0.58
2:AA:1695:G:N2	2:AA:1696:G:N9	2.50	0.58
2:AA:1718:G:C2	2:AA:1741:C:N4	2.68	0.58
2:AA:1892:C:N4	2:AA:1893:C:N4	2.51	0.58
2:AA:1913:A:N1	2:AA:1916:A:H2'	2.18	0.58
2:AA:1993:U:C2'	2:AA:1993:U:O2	2.51	0.58
2:AA:2097:C:H2'	2:AA:2098:U:C5'	2.33	0.58
2:AA:2126:A:C2	2:AA:2127:G:N3	2.72	0.58
2:AA:2145:C:O3'	2:AA:2146:C:O4'	2.22	0.58
2:AA:2106:G:N2	2:AA:2182:G:N2	2.51	0.58
2:AA:2208:U:H2'	2:AA:2209:C:H6	1.67	0.58
2:AA:2352:A:C2	2:AA:2353:G:H1'	2.38	0.58
2:AA:2412:A:H2'	2:AA:2413:G:O4'	2.04	0.58
2:AA:2444:G:H2'	2:AA:2445:G:H8	1.63	0.58
2:AA:2460:U:C5	2:AA:2461:C:N4	2.71	0.58
2:AA:2505:G:C5	2:AA:2576:G:N3	2.71	0.58
2:AA:2723:C:C4	2:AA:2724:C:C5	2.92	0.58
2:AA:2783:G:H2'	2:AA:2784:C:C6	2.38	0.58
2:AA:292:C:C3'	2:AA:293:U:H3	2.16	0.58
2:AA:311:A:C2	2:AA:331:A:OP2	2.57	0.58
2:AA:37:C:C5'	2:AA:451:C:O4'	2.51	0.58
2:AA:541:C:OP2	2:AA:541:C:H6	1.85	0.58
2:AA:643:A:H2'	2:AA:644:A:C8	2.38	0.58
2:AA:820:A:C2	2:AA:944:G:OP1	2.57	0.58
2:AA:953:A:C6	2:AA:965:C:N3	2.71	0.58
1:AB:31:C:H2'	1:AB:32:C:H6	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:199:HIS:O	3:AC:200:LYS:O	2.22	0.58
5:AE:198:TYR:CZ	5:AE:267:ARG:HB3	2.39	0.58
5:AE:268:LEU:HA	5:AE:296:VAL:HG13	1.86	0.58
2:AA:600:G:O2'	6:AF:109:LEU:HD11	2.03	0.58
8:AH:140:VAL:O	8:AH:143:LEU:HD23	2.03	0.58
8:AH:143:LEU:O	8:AH:146:ASN:HB3	2.02	0.58
8:AH:30:GLY:O	8:AH:78:VAL:CG1	2.43	0.58
8:AH:43:THR:HG1	8:AH:50:THR:H	1.51	0.58
8:AH:58:LYS:N	8:AH:61:ARG:CZ	2.67	0.58
9:AI:106:VAL:HG11	9:AI:114:ILE:CD1	2.32	0.58
9:AI:118:LEU:HB2	9:AI:125:VAL:HG21	1.85	0.58
2:AA:1084:A:N3	9:AI:29:PHE:CE1	2.71	0.58
9:AJ:106:VAL:HG12	9:AJ:110:GLU:HB2	1.86	0.58
9:AJ:106:VAL:HG21	9:AJ:114:ILE:CD1	2.34	0.58
9:AJ:66:PHE:CZ	9:AJ:92:VAL:HG13	2.39	0.58
11:AL:96:ILE:HG23	11:AL:138:GLU:CD	2.24	0.58
12:AM:15:ARG:HA	12:AM:43:ARG:C	2.23	0.58
13:AN:120:GLU:CG	13:AN:121:VAL:N	2.65	0.58
13:AN:43:VAL:CG2	13:AN:56:GLN:H	2.15	0.58
13:AN:86:ILE:HG22	13:AN:94:ARG:CG	2.22	0.58
15:AP:49:VAL:CG2	15:AP:119:ASN:O	2.47	0.58
15:AP:68:ALA:O	15:AP:69:ASN:C	2.42	0.58
15:AP:72:VAL:HG21	15:AP:83:PHE:HZ	1.67	0.58
16:AQ:46:GLN:O	16:AQ:47:LEU:HD23	2.03	0.58
17:AR:38:ASN:O	17:AR:39:ASN:C	2.39	0.58
2:AA:1755:A:P	17:AR:44:ARG:HH12	2.27	0.58
18:AS:27:LYS:O	18:AS:70:TYR:HB2	2.04	0.58
18:AS:49:LYS:C	18:AS:49:LYS:HD3	2.23	0.58
20:AU:103:LEU:HD13	20:AU:113:GLU:O	2.02	0.58
20:AU:89:ARG:HB2	20:AU:91:LEU:HD21	1.84	0.58
21:AV:114:ASP:N	21:AV:114:ASP:OD1	2.37	0.58
21:AV:5:ALA:O	21:AV:6:LYS:HB3	2.03	0.58
34:BA:103:C:H1'	34:BA:151:A:H2	1.69	0.58
34:BA:1132:C:N4	34:BA:1142:G:H1	1.98	0.58
34:BA:1163:C:H2'	34:BA:1164:G:H5'	1.86	0.58
34:BA:1186:G:N2	49:BQ:61:TRP:O	2.37	0.58
34:BA:1192:C:C4	34:BA:1193:G:C5	2.91	0.58
34:BA:1224:G:H2'	34:BA:1225:A:OP1	2.03	0.58
34:BA:1292:U:N3	34:BA:1293:G:C5	2.72	0.58
34:BA:1360:A:N7	49:BQ:18:VAL:CG1	2.67	0.58
34:BA:1371:G:H2'	34:BA:1372:U:O5'	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1419:G:O2'	34:BA:1420:C:H6	1.86	0.58
34:BA:240:C:N3	34:BA:241:C:C5	2.71	0.58
34:BA:259:G:C2	34:BA:260:G:C4	2.92	0.58
34:BA:130:A:C4	34:BA:264:U:O4'	2.57	0.58
34:BA:374:A:O4'	34:BA:481:G:N2	2.37	0.58
34:BA:514:C:O2'	34:BA:515:G:H5'	2.04	0.58
34:BA:616:G:H1	34:BA:624:C:H42	1.50	0.58
34:BA:698:G:H3'	34:BA:698:G:OP2	2.03	0.58
35:BC:47:U:C5	35:BC:49:C:C5'	2.85	0.58
35:BC:47:U:C4	35:BC:49:C:H4'	2.39	0.58
37:BE:88:ALA:CA	37:BE:222:ILE:HD13	2.32	0.58
38:BF:10:PHE:CZ	38:BF:178:LEU:CA	2.86	0.58
38:BF:13:GLY:C	38:BF:14:ILE:HG12	2.24	0.58
39:BG:3:ARG:HG3	39:BG:3:ARG:HH11	1.69	0.58
42:BJ:10:ARG:HH11	42:BJ:10:ARG:CG	2.16	0.58
43:BK:134:ILE:CG2	43:BK:135:CYS:N	2.57	0.58
43:BK:89:PRO:HB3	43:BK:92:ARG:NH2	2.19	0.58
34:BA:718:G:C6	46:BN:116:HIS:NE2	2.72	0.58
47:BO:102:ARG:HE	47:BO:109:GLY:HA2	1.68	0.58
48:BP:108:ARG:HA	48:BP:111:LYS:HB2	1.86	0.58
48:BP:73:GLU:O	48:BP:74:VAL:C	2.42	0.58
50:BR:51:HIS:O	50:BR:54:ARG:HB3	2.03	0.58
51:BS:20:VAL:HG21	51:BS:32:TYR:CE2	2.39	0.58
51:BS:75:ARG:CG	51:BS:80:PHE:HB2	2.34	0.58
52:BT:15:MET:CB	52:BT:18:THR:HB	2.27	0.58
53:BU:40:LEU:HD23	53:BU:40:LEU:N	2.18	0.58
54:BV:63:THR:O	54:BV:64:GLU:C	2.41	0.58
34:BA:193:C:O4'	55:BW:60:GLU:CG	2.49	0.58
10:AK:141:LEU:C	10:AK:141:LEU:CD1	2.70	0.58
2:AA:1508:A:C8	2:AA:1508:A:C3'	2.77	0.58
45:BM:46:ARG:HD3	45:BM:64:GLU:HB3	1.86	0.58
4:AD:123:ILE:H	4:AD:123:ILE:HD12	1.67	0.58
25:A1:74:MET:CG	25:A1:117:ARG:NH2	2.44	0.58
26:A2:5:ILE:N	26:A2:5:ILE:CD1	2.67	0.58
28:A4:23:GLU:O	28:A4:25:MET:N	2.36	0.58
2:AA:126:A:H4'	31:A7:19:ARG:NH2	2.17	0.58
2:AA:1044:G:O2'	2:AA:1047:G:H1'	2.04	0.58
2:AA:1068:G:C2	2:AA:1069:A:N6	2.71	0.58
2:AA:1073:A:N7	2:AA:1074:G:C6	2.72	0.58
2:AA:115:C:O2'	2:AA:116:C:H5'	2.04	0.58
2:AA:1250:G:O2'	2:AA:1251:C:OP1	2.13	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1303:G:H2'	2:AA:1304:C:C6	2.39	0.58
2:AA:1426:G:H5''	2:AA:1427:A:C5'	2.34	0.58
2:AA:1529:A:N7	2:AA:1542:G:N1	2.52	0.58
2:AA:1657:C:O3'	5:AE:230:GLY:O	2.21	0.58
2:AA:1668:A:C2	2:AA:1670:C:N4	2.71	0.58
2:AA:1775:U:C2'	2:AA:1776:G:C5'	2.81	0.58
2:AA:1790:C:C5'	2:AA:1828:G:N1	2.61	0.58
2:AA:1949:G:O2'	2:AA:1950:G:C5'	2.50	0.58
2:AA:2013:A:H2'	2:AA:2014:A:C5'	2.34	0.58
2:AA:2025:C:O2	2:AA:2025:C:H2'	2.03	0.58
2:AA:2135:A:O2'	2:AA:2154:G:C6	2.56	0.58
2:AA:2265:U:H3	2:AA:2266:A:H62	1.52	0.58
2:AA:2408:U:C2'	2:AA:2409:G:O5'	2.52	0.58
2:AA:2450:A:H5''	2:AA:2497:A:N6	2.19	0.58
2:AA:2720:U:O2	2:AA:2720:U:H2'	2.02	0.58
2:AA:2776:A:N6	2:AA:2782:G:H1'	2.18	0.58
2:AA:284:U:H2'	2:AA:285:C:C6	2.39	0.58
2:AA:2878:U:O2'	2:AA:2879:C:O5'	2.15	0.58
2:AA:299:A:N1	2:AA:322:A:C5	2.72	0.58
2:AA:358:U:C3'	2:AA:359:A:H5'	2.33	0.58
2:AA:388:G:C2'	2:AA:390:A:N6	2.64	0.58
2:AA:38:A:HO2'	2:AA:39:C:H6	1.52	0.58
2:AA:270:A:N6	2:AA:424:G:N7	2.50	0.58
2:AA:443:A:H1'	2:AA:1201:C:C4'	2.33	0.58
2:AA:483:A:H3'	2:AA:484:C:H6	1.68	0.58
2:AA:515:A:C3'	2:AA:516:C:H6	2.15	0.58
2:AA:702:G:C6	2:AA:731:C:C4	2.92	0.58
2:AA:778:G:N2	2:AA:787:U:H1'	2.18	0.58
2:AA:818:G:C2	2:AA:1190:G:N1	2.71	0.58
2:AA:823:G:O6	2:AA:835:A:C6	2.56	0.58
2:AA:869:G:O2'	15:AP:23:ILE:HG12	2.04	0.58
1:AB:73:A:N6	1:AB:104:A:C4	2.72	0.58
3:AC:185:LEU:O	3:AC:189:ILE:HG13	2.04	0.58
4:AD:130:PRO:HB3	4:AD:186:LYS:C	2.24	0.58
4:AD:158:GLY:O	4:AD:159:THR:C	2.43	0.58
4:AD:131:LEU:HD12	4:AD:171:VAL:HG21	1.85	0.58
5:AE:247:ARG:HB3	5:AE:249:THR:CG2	2.32	0.58
5:AE:247:ARG:CB	5:AE:249:THR:OG1	2.51	0.58
5:AE:41:PHE:HE1	5:AE:173:ARG:HH11	1.51	0.58
6:AF:150:THR:HA	6:AF:153:VAL:HG23	1.85	0.58
6:AF:22:PHE:CZ	6:AF:115:LEU:CB	2.80	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:193:LEU:CB	6:AF:233:THR:HB	2.34	0.58
6:AF:56:THR:HB	6:AF:57:PRO:HD2	1.85	0.58
8:AH:147:ILE:O	8:AH:161:ILE:HD12	2.04	0.58
9:AI:13:LEU:HB3	9:AI:17:GLU:HB2	1.85	0.58
2:AA:1084:A:N7	9:AI:37:VAL:CG1	2.67	0.58
11:AL:56:VAL:HG13	11:AL:69:ILE:O	2.04	0.58
2:AA:1062:G:H22	11:AL:92:PRO:HG3	1.64	0.58
12:AM:44:ALA:CB	12:AM:132:LEU:HD23	2.31	0.58
13:AN:98:ILE:CD1	13:AN:114:ILE:HG23	2.28	0.58
14:AO:81:VAL:HG13	14:AO:116:HIS:CD2	2.39	0.58
14:AO:132:LYS:N	14:AO:132:LYS:HD2	2.19	0.58
14:AO:64:ILE:HD12	14:AO:106:VAL:CG1	2.27	0.58
14:AO:65:ASP:CB	14:AO:109:LEU:HB3	2.34	0.58
15:AP:46:VAL:HG13	15:AP:156:ASN:ND2	2.18	0.58
16:AQ:104:ILE:O	16:AQ:105:GLY:C	2.42	0.58
16:AQ:34:LEU:CD2	16:AQ:129:ILE:HD11	2.31	0.58
2:AA:2009:G:C5'	18:AS:40:ASN:ND2	2.67	0.58
19:AT:22:ASN:C	19:AT:68:LEU:HG	2.23	0.58
20:AU:50:VAL:HG12	20:AU:52:ARG:H	1.69	0.58
21:AV:94:VAL:HG11	21:AV:130:ILE:CG2	2.27	0.58
22:AW:7:GLU:CG	22:AW:8:ILE:N	2.66	0.58
34:BA:1201:A:O2'	34:BA:1202:G:C5'	2.52	0.58
34:BA:122:G:H8	34:BA:122:G:OP1	1.87	0.58
34:BA:1292:U:OP2	34:BA:1292:U:C6	2.55	0.58
34:BA:1317:C:OP1	49:BQ:16:PHE:HB3	2.04	0.58
34:BA:1306:A:N6	34:BA:1331:G:H1'	2.19	0.58
34:BA:1476:G:N1	34:BA:1477:C:N4	2.52	0.58
34:BA:166:G:H2'	34:BA:167:G:O5'	2.03	0.58
34:BA:185:A:C2	34:BA:193:C:N3	2.72	0.58
34:BA:260:G:C2	34:BA:261:U:O2	2.56	0.58
34:BA:267:C:H2'	34:BA:268:C:C6	2.39	0.58
34:BA:292:G:OP2	34:BA:305:G:N2	2.35	0.58
34:BA:327:A:C4'	34:BA:328:C:OP1	2.47	0.58
34:BA:376:G:H1	34:BA:387:U:H3	1.50	0.58
34:BA:417:C:N4	34:BA:426:G:N1	2.26	0.58
34:BA:609:A:C5	34:BA:610:G:C8	2.92	0.58
34:BA:736:C:H2'	34:BA:737:A:H8	1.68	0.58
34:BA:764:C:H2'	34:BA:765:G:C1'	2.33	0.58
34:BA:902:G:C2'	34:BA:903:G:H5'	2.34	0.58
34:BA:924:C:O2'	34:BA:1399:C:H6	1.87	0.58
34:BA:965:A:C2	34:BA:969:A:C2	2.92	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:983:A:N3	34:BA:983:A:C3'	2.66	0.58
35:BC:57:G:C8	35:BC:57:G:H3'	2.38	0.58
37:BE:102:LEU:CD1	37:BE:102:LEU:N	2.67	0.58
37:BE:113:HIS:HA	37:BE:116:GLU:CD	2.25	0.58
38:BF:83:ARG:HE	38:BF:87:LEU:HD21	1.65	0.58
39:BG:128:VAL:HG12	39:BG:129:ASN:N	2.18	0.58
39:BG:32:ALA:O	39:BG:33:MET:C	2.41	0.58
39:BG:36:ARG:HG2	39:BG:38:TYR:OH	2.04	0.58
41:BI:45:LEU:HD21	41:BI:59:TYR:HD1	1.69	0.58
45:BM:24:VAL:HG13	45:BM:34:VAL:CG1	2.33	0.58
45:BM:39:PRO:HA	45:BM:69:ASN:O	2.04	0.58
46:BN:28:THR:CG2	46:BN:29:ILE:N	2.67	0.58
48:BP:78:ILE:O	48:BP:82:MET:HB2	2.03	0.58
49:BQ:6:LEU:O	49:BQ:8:GLU:N	2.36	0.58
51:BS:4:ILE:HG13	51:BS:66:PRO:HB3	1.85	0.58
53:BU:38:GLU:OE2	53:BU:39:VAL:N	2.36	0.58
2:AA:1050:A:N3	2:AA:2752:C:C6	2.71	0.58
27:A3:9:SER:O	27:A3:10:SER:C	2.42	0.58
38:BF:167:TRP:CE3	38:BF:167:TRP:O	2.57	0.58
25:A1:55:ARG:HG2	25:A1:58:ARG:CZ	2.34	0.58
26:A2:15:SER:HB2	26:A2:99:GLN:OE1	2.04	0.58
27:A3:46:LYS:CG	27:A3:58:THR:HG23	2.34	0.58
28:A4:49:PHE:CZ	28:A4:70:GLY:O	2.57	0.58
29:A5:44:HIS:CA	29:A5:52:TYR:OH	2.51	0.58
2:AA:1024:G:O6	2:AA:1138:G:O6	2.21	0.58
2:AA:1057:A:C2	2:AA:1058:G:C8	2.92	0.58
2:AA:1063:G:N2	2:AA:1076:C:N1	2.52	0.58
2:AA:1066:U:C2'	2:AA:1067:A:H5''	2.34	0.58
2:AA:1110:G:O3'	2:AA:1111:A:C8	2.57	0.58
2:AA:1423:G:N2	2:AA:1424:G:C4	2.72	0.58
2:AA:1472:A:C6	2:AA:1518:C:N4	2.72	0.58
2:AA:1568:G:H3'	4:AD:60:GLN:HG2	1.86	0.58
2:AA:1613:G:C2'	2:AA:1614:A:OP1	2.52	0.58
2:AA:1617:C:O2	2:AA:1617:C:H2'	2.02	0.58
2:AA:1653:G:C5'	2:AA:1653:G:H8	2.16	0.58
2:AA:1691:C:O2	2:AA:1691:C:C2'	2.45	0.58
2:AA:1703:G:N1	2:AA:1704:G:C4	2.72	0.58
2:AA:1717:G:N2	2:AA:1718:G:N3	2.52	0.58
2:AA:1769:G:N1	2:AA:1984:G:C5	2.72	0.58
2:AA:1817:G:H8	2:AA:1817:G:H5'	1.69	0.58
2:AA:1941:C:O2	2:AA:1941:C:C2'	2.49	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2019:A:O2'	2:AA:2020:A:P	2.62	0.58
2:AA:2040:C:H4'	12:AM:69:TYR:CE2	2.39	0.58
2:AA:2147:G:C2	2:AA:2148:G:O6	2.56	0.58
2:AA:2430:A:C2'	2:AA:2431:U:H5'	2.34	0.58
2:AA:2486:G:C2'	2:AA:2487:G:O5'	2.52	0.58
2:AA:2497:A:O2'	2:AA:2498:C:O5'	2.22	0.58
2:AA:2526:G:C2'	2:AA:2527:C:O5'	2.52	0.58
2:AA:2581:G:C2	2:AA:2610:C:C6	2.91	0.58
2:AA:2620:C:O2'	2:AA:2621:A:O5'	2.21	0.58
2:AA:2850:A:H8	2:AA:2850:A:O5'	1.87	0.58
2:AA:2870:C:H5''	24:A0:64:ARG:HH22	1.68	0.58
2:AA:2887:U:H2'	2:AA:2888:C:H6	1.68	0.58
2:AA:452:G:H21	2:AA:457:A:H2	1.51	0.58
2:AA:465:G:C5	2:AA:466:A:N6	2.72	0.58
2:AA:458:G:O2'	2:AA:469:G:C2	2.50	0.58
2:AA:529:A:H5''	2:AA:529:A:H8	1.69	0.58
2:AA:530:G:H22	2:AA:2021:C:C5'	2.08	0.58
2:AA:531:C:H42	25:A1:38:THR:CB	2.17	0.58
2:AA:611:C:N3	2:AA:617:G:O6	2.36	0.58
2:AA:776:G:H1'	2:AA:793:A:N1	2.19	0.58
2:AA:868:U:H3	2:AA:909:A:H61	1.52	0.58
2:AA:943:U:C6	2:AA:943:U:H3'	2.39	0.58
1:AB:52:A:H2'	1:AB:53:A:C8	2.38	0.58
3:AC:115:ALA:O	3:AC:117:PRO:HD3	2.04	0.58
4:AD:194:VAL:HG23	4:AD:195:GLY:H	1.69	0.58
4:AD:232:VAL:HG23	4:AD:233:ASP:H	1.66	0.58
5:AE:101:THR:O	5:AE:102:ASP:O	2.22	0.58
5:AE:107:GLU:O	5:AE:109:ASP:N	2.34	0.58
5:AE:216:ARG:C	5:AE:217:TRP:HD1	2.05	0.58
5:AE:38:VAL:HG22	5:AE:81:VAL:HG22	1.85	0.58
9:AI:60:ASP:HB2	9:AI:128:LYS:CD	2.33	0.58
9:AI:57:THR:O	9:AI:58:GLU:HG3	2.03	0.58
9:AJ:64:LYS:HE2	9:AJ:125:VAL:O	2.04	0.58
10:AK:30:LEU:O	10:AK:33:GLN:HB2	2.04	0.58
11:AL:89:SER:OG	11:AL:95:LYS:HD3	2.03	0.58
2:AA:1140:C:C4	12:AM:49:ARG:NE	2.72	0.58
13:AN:64:ARG:CB	13:AN:79:PHE:HD1	2.13	0.58
13:AN:88:ARG:NE	13:AN:94:ARG:HD3	2.19	0.58
16:AQ:34:LEU:CD1	16:AQ:102:LEU:HA	2.34	0.58
17:AR:13:ILE:CG1	17:AR:33:SER:CB	2.78	0.58
20:AU:49:GLU:HB3	20:AU:97:ARG:NH1	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:6:LYS:CD	21:AV:30:VAL:HG11	2.33	0.58
21:AV:51:LEU:HD21	21:AV:64:ALA:CA	2.32	0.58
21:AV:55:THR:HA	21:AV:61:THR:HG22	1.84	0.58
22:AW:5:VAL:O	22:AW:6:GLN:C	2.41	0.58
23:AX:27:GLY:O	23:AX:28:LEU:CD2	2.52	0.58
34:BA:1223:C:O5'	34:BA:1224:G:H5''	2.04	0.58
34:BA:123:C:H1'	34:BA:290:C:H1'	1.85	0.58
34:BA:1261:A:N3	34:BA:1261:A:H2'	2.19	0.58
34:BA:978:A:N6	34:BA:1318:A:N6	2.51	0.58
34:BA:236:G:H3'	34:BA:237:C:H6	1.69	0.58
34:BA:316:G:C2	34:BA:317:G:C8	2.92	0.58
34:BA:40:C:O2'	34:BA:41:G:H5'	2.04	0.58
34:BA:429:U:H1'	34:BA:430:A:H5''	1.86	0.58
34:BA:734:G:C5	34:BA:735:C:C4	2.90	0.58
34:BA:736:C:H5'	41:BI:89:MET:CE	2.34	0.58
34:BA:877:C:O3'	43:BK:88:LYS:HB3	2.02	0.58
34:BA:79:G:N2	34:BA:91:C:H1'	2.14	0.58
35:BC:17:U:H3'	35:BC:18:G:H3'	1.86	0.58
35:BC:5:A:O2'	35:BC:6:U:C5'	2.51	0.58
37:BE:22:LYS:HD2	37:BE:40:HIS:CE1	2.38	0.58
37:BE:239:VAL:O	37:BE:240:GLN:CB	2.52	0.58
38:BF:117:ALA:O	38:BF:118:GLN:C	2.42	0.58
38:BF:11:ARG:O	38:BF:14:ILE:N	2.35	0.58
38:BF:52:LEU:CD2	38:BF:52:LEU:H	2.16	0.58
39:BG:191:ARG:NH2	39:BG:196:LEU:CB	2.67	0.58
41:BI:6:VAL:O	41:BI:62:TRP:HA	2.04	0.58
41:BI:40:VAL:HG23	41:BI:63:TYR:CE1	2.35	0.58
41:BI:80:ARG:O	41:BI:81:ILE:C	2.42	0.58
42:BJ:28:ASN:HA	42:BJ:31:MET:HE2	1.85	0.58
34:BA:1373:G:C4'	42:BJ:36:LYS:NZ	2.63	0.58
42:BJ:76:ARG:HB3	42:BJ:156:TRP:CZ2	2.38	0.58
43:BK:7:ALA:HA	43:BK:10:LEU:HD12	1.85	0.58
43:BK:9:MET:C	43:BK:13:ILE:HD12	2.25	0.58
45:BM:52:GLY:O	45:BM:56:HIS:HD2	1.87	0.58
47:BO:26:ALA:C	47:BO:27:LEU:O	2.39	0.58
47:BO:43:VAL:HG12	47:BO:44:THR:N	2.18	0.58
48:BP:27:LYS:O	48:BP:28:ALA:CB	2.51	0.58
50:BR:9:GLN:O	50:BR:11:VAL:N	2.36	0.58
51:BS:75:ARG:HA	51:BS:80:PHE:HD1	1.69	0.58
52:BT:6:LEU:O	52:BT:58:GLU:HA	2.03	0.58
53:BU:66:LEU:O	53:BU:70:ILE:HG13	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:112:LYS:O	10:AK:114:LYS:N	2.37	0.58
21:AV:10:PRO:CG	21:AV:11:LYS:H	2.05	0.58
37:BE:10:LEU:CD2	37:BE:11:LEU:HD23	2.33	0.58
37:BE:123:ALA:O	37:BE:127:ILE:HG13	2.04	0.58
2:AA:2897:U:H2'	2:AA:2898:U:C6	2.36	0.58
2:AA:1620:G:H2'	2:AA:1621:U:H6	1.69	0.58
7:AG:152:PRO:C	7:AG:154:LYS:H	2.07	0.58
24:A0:26:LYS:NZ	24:A0:70:LEU:O	2.37	0.57
24:A0:85:PRO:O	24:A0:87:TYR:N	2.37	0.57
25:A1:25:TRP:O	25:A1:26:GLY:C	2.41	0.57
27:A3:28:GLY:O	27:A3:29:GLU:HG2	2.04	0.57
27:A3:46:LYS:NZ	27:A3:61:ALA:HB2	2.19	0.57
27:A3:66:LYS:H	27:A3:66:LYS:HD2	1.68	0.57
27:A3:43:THR:HG21	27:A3:75:GLY:N	2.19	0.57
30:A6:16:ALA:HB3	30:A6:19:GLY:CA	2.34	0.57
31:A7:25:LYS:HZ3	31:A7:28:ARG:NH2	2.02	0.57
32:A8:29:LYS:HB3	32:A8:34:THR:HG21	1.85	0.57
2:AA:1025:G:N3	2:AA:1025:G:C2'	2.67	0.57
2:AA:1026:U:C6	2:AA:1026:U:C4'	2.87	0.57
2:AA:1165:U:O2	2:AA:1166:C:C5	2.56	0.57
2:AA:144:C:H2'	2:AA:145:G:C8	2.29	0.57
2:AA:444(A):A:H2	2:AA:1461:G:O5'	1.86	0.57
2:AA:1435:G:H1	2:AA:1557:C:H42	1.50	0.57
2:AA:1567:A:C2	4:AD:84:PRO:CD	2.85	0.57
2:AA:1655:A:OP2	2:AA:1655:A:C8	2.57	0.57
2:AA:729:G:N2	2:AA:1775:U:C6	2.72	0.57
2:AA:1799:G:O2'	2:AA:1800:C:O4'	2.21	0.57
2:AA:1853:A:H2'	2:AA:1854:A:O4'	2.04	0.57
2:AA:1946:U:H2'	2:AA:1947:C:H6	1.67	0.57
2:AA:1953:A:N6	2:AA:2550:G:C4'	2.66	0.57
2:AA:2511:U:C4	2:AA:2512:C:C5	2.92	0.57
2:AA:2521:C:H2'	2:AA:2522:U:O4'	2.03	0.57
2:AA:265:A:N1	2:AA:281:G:P	2.77	0.57
2:AA:2688:U:C4	2:AA:2719:G:H2'	2.39	0.57
2:AA:2703:C:H5	2:AA:2704:C:C4	2.22	0.57
2:AA:2043:C:N4	2:AA:2777:G:C2	2.71	0.57
2:AA:2819:G:H5''	2:AA:2821:A:N6	2.18	0.57
2:AA:2880:C:O2'	24:A0:90:ARG:CD	2.52	0.57
2:AA:290:G:OP2	2:AA:290:G:C8	2.57	0.57
2:AA:572:A:C6	2:AA:573:G:C2	2.92	0.57
2:AA:602:G:H4'	2:AA:603:A:O3'	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:702:G:H2'	2:AA:703:U:H6	1.70	0.57
2:AA:749:C:O2	2:AA:1618:A:C8	2.57	0.57
2:AA:805:G:N7	2:AA:2067:G:O3'	2.36	0.57
2:AA:92:G:C2	2:AA:93:C:C5	2.92	0.57
1:AB:18:G:H2'	1:AB:19:G:H8	1.68	0.57
1:AB:30:C:H2'	1:AB:31:C:H5'	1.86	0.57
1:AB:40:U:OP2	1:AB:40:U:C6	2.57	0.57
1:AB:68:C:H2'	1:AB:69:G:H1'	1.85	0.57
3:AC:15:ASP:OD2	3:AC:20:TYR:HE2	1.86	0.57
4:AD:95:TYR:HB2	4:AD:99:GLU:HG3	1.85	0.57
5:AE:83:LEU:HD22	5:AE:178:LEU:HD23	1.86	0.57
2:AA:2785:C:O4'	5:AE:98:GLU:O	2.21	0.57
7:AG:11:HIS:NE2	7:AG:15:GLU:OE2	2.37	0.57
1:AB:43:C:H1'	7:AG:47:GLN:CG	2.34	0.57
8:AH:37:HIS:CE1	8:AH:67:THR:CG2	2.87	0.57
8:AH:36:PHE:CE2	8:AH:70:LEU:HB3	2.39	0.57
13:AN:88:ARG:O	13:AN:89:ASP:C	2.43	0.57
15:AP:49:VAL:CG2	15:AP:121:ASP:H	2.16	0.57
2:AA:441:U:H5	20:AU:3:GLN:HE22	1.50	0.57
20:AU:61:GLU:O	20:AU:75:GLU:OE2	2.21	0.57
21:AV:151:ASP:O	21:AV:153:LYS:N	2.37	0.57
22:AW:59:ILE:CG2	22:AW:60:GLN:N	2.67	0.57
36:B1:57:A:OP2	36:B1:57:A:N3	2.36	0.57
34:BA:1009:G:O2'	34:BA:1010:G:H5'	2.04	0.57
34:BA:101:A:H8	34:BA:101:A:O5'	1.86	0.57
34:BA:1130:A:C8	34:BA:1131:G:N7	2.72	0.57
34:BA:1145:C:H1'	34:BA:1146:A:C8	2.39	0.57
34:BA:1251:A:H1'	34:BA:1369:C:O2'	2.03	0.57
34:BA:1346:A:C8	34:BA:1348:U:C2	2.92	0.57
34:BA:1425:U:H2'	34:BA:1426:C:H6	1.68	0.57
34:BA:1531:A:O2'	34:BA:1532:U:N1	2.33	0.57
34:BA:391:G:P	51:BS:28:ARG:NH2	2.77	0.57
34:BA:450:G:H1	34:BA:483:C:N4	2.00	0.57
34:BA:443:C:N4	34:BA:491:G:H1	2.02	0.57
34:BA:761:G:C1'	52:BT:103:GLY:O	2.51	0.57
34:BA:771:G:C6	34:BA:809:G:C5	2.92	0.57
34:BA:572:A:C2	34:BA:916:G:N2	2.72	0.57
35:BC:21:A:N7	35:BC:46:G:C6	2.72	0.57
35:BC:47:U:C4	35:BC:49:C:O3'	2.57	0.57
37:BE:76:GLN:O	37:BE:77:ALA:CB	2.52	0.57
38:BF:10:PHE:HZ	38:BF:178:LEU:CA	2.16	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BF:34:LEU:C	38:BF:34:LEU:HD23	2.24	0.57
38:BF:3:ASN:O	38:BF:4:LYS:O	2.22	0.57
39:BG:101:LEU:HB2	39:BG:138:TYR:O	2.03	0.57
40:BH:76:ILE:HG12	40:BH:77:PRO:HD2	1.86	0.57
42:BJ:15:ASP:HB2	42:BJ:23:VAL:HB	1.86	0.57
43:BK:100:ILE:CG2	43:BK:125:ARG:NH2	2.67	0.57
34:BA:1346:A:C5'	44:BL:120:ARG:HH12	2.16	0.57
45:BM:54:PHE:CZ	45:BM:55:LYS:CE	2.86	0.57
47:BO:24:VAL:O	47:BO:24:VAL:HG12	2.03	0.57
48:BP:51:ALA:HA	48:BP:54:VAL:HG23	1.86	0.57
49:BQ:40:CYS:HB2	49:BQ:42:ILE:CB	2.31	0.57
49:BQ:42:ILE:HG22	49:BQ:46:GLU:OE2	2.04	0.57
52:BT:19:VAL:O	52:BT:43:LEU:HD23	2.03	0.57
34:BA:735:C:H5'	53:BU:71:LYS:CD	2.34	0.57
10:AK:112:LYS:N	10:AK:112:LYS:HD3	2.19	0.57
10:AK:132:LYS:HA	10:AK:138:THR:CB	2.34	0.57
24:A0:32:GLY:O	24:A0:116:LEU:HG	2.04	0.57
25:A1:59:ARG:O	25:A1:62:ILE:CB	2.51	0.57
26:A2:6:GLN:NE2	26:A2:10:LYS:CA	2.67	0.57
32:A8:39:ASP:O	32:A8:42:ARG:HB2	2.03	0.57
32:A8:61:MET:O	32:A8:62:LEU:CB	2.51	0.57
2:AA:1054:A:C2'	2:AA:1055:G:C8	2.84	0.57
2:AA:1065:U:N3	2:AA:1066:U:C6	2.72	0.57
2:AA:1165:U:H2'	2:AA:1166:C:C5	2.39	0.57
2:AA:1174:A:C2	2:AA:1176:G:O4'	2.57	0.57
2:AA:1178:C:O2'	2:AA:1179:C:O5'	2.20	0.57
2:AA:1181:C:O2'	2:AA:1182:A:C8	2.56	0.57
2:AA:118:A:H5''	2:AA:119:A:OP2	2.05	0.57
2:AA:1202:C:C4	2:AA:1243:G:N2	2.69	0.57
2:AA:1275:A:HO2'	2:AA:1276:A:P	2.23	0.57
2:AA:1315:C:H2'	2:AA:1316:U:H6	1.68	0.57
2:AA:1794:U:H4'	2:AA:1900:A:N7	2.18	0.57
2:AA:1872:A:H2'	2:AA:1878:G:O4'	2.04	0.57
2:AA:1912:A:N6	34:BA:1407:C:O2'	2.37	0.57
2:AA:1968:G:H2'	2:AA:1969:A:OP2	2.03	0.57
2:AA:2150:U:OP1	2:AA:2151:G:OP1	2.22	0.57
2:AA:2191:G:O2'	2:AA:2192:G:H5'	2.05	0.57
2:AA:2295:C:C2	2:AA:2337:G:N2	2.63	0.57
2:AA:2504:U:H6	2:AA:2504:U:O5'	1.87	0.57
2:AA:2520:C:C2'	2:AA:2521:C:H5'	2.34	0.57
2:AA:2618:G:N3	2:AA:2619:C:C6	2.72	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2623:G:O2'	2:AA:2825:C:O2'	2.22	0.57
2:AA:2627:G:C6	2:AA:2777:G:O6	2.57	0.57
2:AA:2820:A:N3	2:AA:2820:A:H5''	2.19	0.57
2:AA:2834:G:H3'	2:AA:2834:G:C8	2.39	0.57
2:AA:2879:C:H6	2:AA:2879:C:OP2	1.86	0.57
2:AA:319:C:C5	2:AA:320:A:N7	2.72	0.57
2:AA:363(C):G:C2'	2:AA:363(D):G:H5'	2.30	0.57
2:AA:494:G:C2	2:AA:495:G:C8	2.92	0.57
2:AA:566:U:OP2	26:A2:81:ARG:NE	2.37	0.57
2:AA:601:C:C2'	2:AA:602:G:H5'	2.32	0.57
2:AA:740:U:C4	2:AA:758:C:O2	2.57	0.57
2:AA:80:G:C2'	2:AA:81:G:H5'	2.34	0.57
2:AA:971:C:O2'	2:AA:972:G:C4'	2.52	0.57
1:AB:78:A:C2'	1:AB:79:C:H5'	2.34	0.57
1:AB:99:A:C2	1:AB:100:G:C4	2.91	0.57
3:AC:93:TYR:HE2	3:AC:110:PHE:CA	2.16	0.57
5:AE:212:GLY:O	5:AE:213:PRO:C	2.42	0.57
6:AF:102:LEU:HD22	6:AF:106:GLU:OE1	2.04	0.57
6:AF:139:VAL:O	6:AF:139:VAL:HG12	2.05	0.57
6:AF:194:PHE:O	6:AF:212:VAL:HA	2.04	0.57
6:AF:245:GLU:CD	6:AF:245:GLU:H	2.07	0.57
7:AG:151:ILE:CD1	7:AG:156:ARG:HH22	2.17	0.57
2:AA:1058:G:H5''	9:AI:1:MET:C	2.24	0.57
9:AI:2:THR:O	9:AI:5:GLU:HB2	2.05	0.57
9:AJ:15:VAL:HG11	9:AJ:49:ALA:HB2	1.85	0.57
12:AM:60:ARG:CA	12:AM:71:TYR:HD2	2.18	0.57
13:AN:3:GLN:CA	13:AN:21:VAL:HG11	2.22	0.57
13:AN:1:MET:CA	13:AN:32:TYR:HD2	2.17	0.57
13:AN:7:ARG:CG	13:AN:44:LYS:HZ2	2.17	0.57
13:AN:88:ARG:NH1	13:AN:94:ARG:HD3	2.18	0.57
15:AP:34:GLY:HA3	15:AP:83:PHE:HD1	1.68	0.57
17:AR:15:PRO:C	17:AR:17:THR:H	2.07	0.57
18:AS:37:ARG:HH22	29:A5:48:ASN:CG	2.07	0.57
20:AU:48:VAL:CG1	20:AU:49:GLU:N	2.67	0.57
21:AV:18:MET:N	21:AV:36:ARG:HE	2.03	0.57
22:AW:19:GLU:OE2	22:AW:23:LEU:HD11	2.03	0.57
34:BA:116:A:H2'	34:BA:117:G:O4'	2.03	0.57
34:BA:1188:A:C2	34:BA:1189:C:C2	2.91	0.57
34:BA:1215:G:C2	34:BA:1216:G:C8	2.92	0.57
34:BA:1299:A:C8	34:BA:1301:U:C1'	2.67	0.57
34:BA:132:C:H5'	34:BA:262:A:H1'	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1351:U:O4	44:BL:118:LYS:CE	2.52	0.57
34:BA:1494:G:N1	34:BA:1495:U:C5	2.71	0.57
34:BA:62:U:H5''	34:BA:385:C:O2	2.05	0.57
34:BA:478:A:H2'	34:BA:479:C:C6	2.39	0.57
34:BA:492:G:C5	34:BA:494:G:C8	2.92	0.57
34:BA:51:A:C2	34:BA:353:A:N6	2.72	0.57
34:BA:604:G:H2'	34:BA:605:U:O4'	2.04	0.57
34:BA:695:A:O2'	34:BA:696:A:H5'	2.03	0.57
34:BA:711:G:O2'	34:BA:712:A:H5'	2.04	0.57
34:BA:675:A:N1	34:BA:716:A:C2	2.72	0.57
34:BA:779:C:O2'	34:BA:780:A:H5'	2.04	0.57
34:BA:78:G:C6	34:BA:92:C:N4	2.72	0.57
35:BB:32:C:OP2	35:BB:32:C:C5	2.57	0.57
35:BB:49:C:N3	35:BB:66:A:C6	2.72	0.57
44:BL:22:GLY:C	44:BL:58:ARG:O	2.42	0.57
45:BM:78:ASN:O	45:BM:80:LYS:N	2.37	0.57
45:BM:5:ARG:O	45:BM:98:ILE:HG23	2.04	0.57
34:BA:562:C:HO2'	47:BO:15:ARG:HB3	1.62	0.57
47:BO:53:ARG:HG3	47:BO:69:TYR:CZ	2.39	0.57
47:BO:68:ALA:HB1	47:BO:99:HIS:HA	1.85	0.57
49:BQ:42:ILE:HG22	49:BQ:43:CYS:N	2.19	0.57
51:BS:54:GLU:O	51:BS:55:ARG:C	2.41	0.57
56:BX:12:LYS:HG3	56:BX:18:TYR:HA	1.86	0.57
35:BB:1:G:C2	35:BB:73:A:C2	2.91	0.57
2:AA:1119:C:O2	2:AA:1119:C:C2'	2.51	0.57
2:AA:1284:A:O2'	2:AA:1285:G:H5'	2.04	0.57
48:BP:69:GLU:O	48:BP:72:ALA:HB3	2.03	0.57
1:AB:1:U:H6	1:AB:1:U:H5''	1.69	0.57
25:A1:101:ARG:HB2	26:A2:13:ARG:NH2	2.18	0.57
26:A2:14:VAL:CG1	26:A2:15:SER:H	2.14	0.57
27:A3:68:VAL:HG11	27:A3:71:ASN:HB2	1.86	0.57
28:A4:4:ASP:C	28:A4:5:LEU:HD23	2.24	0.57
33:A9:2:LYS:N	33:A9:35:ARG:HB3	2.19	0.57
2:AA:1052:C:C2	2:AA:1053:C:C5	2.92	0.57
2:AA:1353:A:O2'	2:AA:1354:A:C5'	2.51	0.57
2:AA:1364:G:O6	28:A4:2:GLN:CD	2.43	0.57
2:AA:137:C:O2	2:AA:137(A):G:C4	2.57	0.57
2:AA:1468:C:O2	2:AA:1468:C:H2'	2.05	0.57
2:AA:1492:G:H1'	2:AA:1493:C:C5	2.39	0.57
2:AA:1524:G:N7	2:AA:1525:G:N7	2.52	0.57
2:AA:1651:G:H2'	2:AA:1652:A:H8	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1667:G:C2'	2:AA:1991:U:O4	2.51	0.57
2:AA:1742:C:H2'	2:AA:1743:G:C8	2.38	0.57
2:AA:153:C:N3	2:AA:174:C:C4	2.72	0.57
2:AA:1773:A:H2'	2:AA:1774:C:C5'	2.33	0.57
2:AA:1779:U:O4	2:AA:1784:A:N3	2.37	0.57
2:AA:1790:C:O2	2:AA:1790:C:C2'	2.53	0.57
2:AA:1807:G:N2	2:AA:1809:A:P	2.77	0.57
2:AA:1832:C:C4	2:AA:1833:U:C5	2.92	0.57
2:AA:1904:G:O2'	2:AA:1905:C:C5'	2.48	0.57
2:AA:1933:G:H2'	2:AA:1934:C:O4'	2.04	0.57
2:AA:529:A:H2	2:AA:2022:U:OP1	1.87	0.57
2:AA:2027:G:N2	2:AA:2028:U:H1'	2.19	0.57
2:AA:2110:G:C4	2:AA:2111:C:N4	2.72	0.57
2:AA:2225:A:H4'	2:AA:2226:C:O5'	2.04	0.57
2:AA:2274:A:N6	2:AA:2276:G:C4	2.72	0.57
2:AA:2469:A:C2	2:AA:2482:G:N9	2.72	0.57
2:AA:2479:G:OP1	2:AA:2537:U:C1'	2.53	0.57
2:AA:2639:A:N1	2:AA:2640:G:H1'	2.19	0.57
2:AA:2695:C:O2'	2:AA:2696:U:C6	2.58	0.57
2:AA:2795:G:O2'	2:AA:2797:U:H6	1.86	0.57
2:AA:2792:G:N1	2:AA:2804:C:C4	2.72	0.57
2:AA:326:G:N1	2:AA:337:C:C2	2.73	0.57
2:AA:592:G:C6	2:AA:593:G:C5	2.91	0.57
2:AA:686:G:C4'	2:AA:687:C:OP2	2.51	0.57
2:AA:729:G:O2'	2:AA:763:G:H4'	2.04	0.57
2:AA:785:G:C2	2:AA:786:C:C2	2.92	0.57
2:AA:912:C:H2'	2:AA:913:U:C5'	2.34	0.57
3:AC:77:ILE:HG21	3:AC:123:VAL:CG2	2.34	0.57
4:AD:115:ILE:HG21	4:AD:127:ASN:HD21	1.70	0.57
4:AD:140:VAL:HG12	4:AD:190:THR:O	2.04	0.57
4:AD:73:ILE:CG2	4:AD:95:TYR:HD2	2.16	0.57
5:AE:207:GLY:CA	5:AE:257:GLY:HA3	2.33	0.57
5:AE:76:PRO:CB	5:AE:77:PRO:CD	2.78	0.57
6:AF:36:ARG:N	6:AF:39:GLN:HE22	2.02	0.57
6:AF:81:PRO:HA	6:AF:87:ARG:HH11	1.68	0.57
6:AF:80:VAL:CG1	6:AF:81:PRO:N	2.67	0.57
6:AF:93:LYS:HB2	6:AF:96:LYS:CD	2.34	0.57
8:AH:30:GLY:HA3	8:AH:78:VAL:HA	1.86	0.57
2:AA:1057:A:O2'	9:AI:6:ILE:HD11	2.04	0.57
10:AK:21:VAL:HG12	10:AK:26:ALA:HB2	1.86	0.57
14:AO:106:VAL:O	14:AO:106:VAL:HG23	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:135:ALA:O	15:AP:136:TRP:C	2.43	0.57
15:AP:57:ARG:HB3	15:AP:60:ALA:HB3	1.87	0.57
17:AR:6:CYS:SG	17:AR:32:CYS:N	2.78	0.57
17:AR:10:GLY:CA	17:AR:53:ASP:H	2.18	0.57
20:AU:43:ASN:ND2	20:AU:101:LEU:HD23	2.18	0.57
20:AU:41:ARG:O	20:AU:112:LEU:HB2	2.05	0.57
21:AV:18:MET:H	21:AV:36:ARG:HH21	1.52	0.57
21:AV:23:ALA:O	21:AV:29:ASN:HA	2.04	0.57
21:AV:6:LYS:O	21:AV:31:SER:HB3	2.04	0.57
21:AV:75:LYS:CE	21:AV:77:ALA:HB3	2.35	0.57
22:AW:7:GLU:OE1	22:AW:8:ILE:HG13	2.04	0.57
34:BA:1062:U:C2	34:BA:1063:C:C4	2.92	0.57
34:BA:1081:G:O2'	34:BA:1082:G:H5'	2.03	0.57
34:BA:1260:C:H4'	34:BA:1283:G:O2'	2.04	0.57
34:BA:1306:A:C6	34:BA:1307:U:C2	2.93	0.57
34:BA:1316:G:C2'	34:BA:1318:A:OP2	2.47	0.57
34:BA:1343:G:H2'	34:BA:1344:C:C6	2.39	0.57
34:BA:191:G:H2'	34:BA:192:U:H6	1.70	0.57
34:BA:223:U:O2'	34:BA:224:C:H5'	2.03	0.57
34:BA:354:G:H21	34:BA:388:G:H3'	1.70	0.57
34:BA:414:A:H2'	34:BA:415:A:C8	2.33	0.57
34:BA:536:C:H2'	34:BA:537:G:C5'	2.29	0.57
34:BA:593:G:C2'	34:BA:594:G:H5'	2.34	0.57
34:BA:600:C:H4'	43:BK:128:GLY:O	2.05	0.57
34:BA:676:A:C6	34:BA:677:U:C4	2.92	0.57
34:BA:695:A:P	46:BN:52:GLY:HA3	2.44	0.57
34:BA:799:G:C6	34:BA:800:G:C2	2.92	0.57
34:BA:892:A:HO2'	34:BA:1415:G:HO2'	1.46	0.57
34:BA:911:U:C2	34:BA:912:C:C5	2.92	0.57
35:BC:56:C:N3	35:BC:57:G:C2	2.72	0.57
37:BE:100:GLY:C	37:BE:108:ILE:HD11	2.23	0.57
38:BF:179:ARG:NH1	38:BF:179:ARG:HG3	2.19	0.57
38:BF:88:ARG:CG	38:BF:101:LEU:HB2	2.33	0.57
39:BG:152:SER:O	39:BG:155:LEU:HG	2.04	0.57
40:BH:78:HIS:CE1	40:BH:142:LEU:HD23	2.38	0.57
41:BI:6:VAL:HG13	41:BI:6:VAL:O	2.04	0.57
41:BI:4:TYR:HB3	41:BI:91:VAL:O	2.04	0.57
34:BA:1298:C:C2'	42:BJ:114:ARG:HH12	2.16	0.57
42:BJ:113:GLU:OE1	42:BJ:122:HIS:CE1	2.57	0.57
43:BK:126:LYS:HD2	43:BK:126:LYS:C	2.21	0.57
43:BK:98:LYS:CA	43:BK:98:LYS:HZ2	2.17	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BM:77:PRO:C	45:BM:78:ASN:HD22	2.07	0.57
46:BN:20:TYR:CD1	46:BN:33:THR:HG21	2.38	0.57
47:BO:119:LYS:HB3	47:BO:120:TYR:HD1	1.70	0.57
52:BT:12:SER:HB3	52:BT:20:THR:OG1	2.04	0.57
54:BV:19:VAL:O	54:BV:23:ASN:HB2	2.03	0.57
55:BW:57:ARG:O	55:BW:60:GLU:N	2.37	0.57
24:A0:45:ARG:HH11	24:A0:45:ARG:HG2	1.69	0.57
25:A1:55:ARG:CA	25:A1:58:ARG:NE	2.56	0.57
25:A1:76:TYR:O	25:A1:80:ILE:HG13	2.04	0.57
2:AA:1152:C:O3'	25:A1:80:ILE:HG21	2.04	0.57
25:A1:95:LEU:O	25:A1:106:PHE:HE1	1.86	0.57
2:AA:126:A:C4'	31:A7:19:ARG:HH21	2.17	0.57
32:A8:31:HIS:C	32:A8:32:GLN:HG3	2.24	0.57
32:A8:21:LYS:CB	32:A8:48:PHE:HZ	2.03	0.57
33:A9:11:CYS:HB3	33:A9:32:HIS:NE2	2.19	0.57
2:AA:1071:G:C8	2:AA:1071:G:OP2	2.58	0.57
2:AA:1268:A:C4	2:AA:2013:A:C6	2.92	0.57
2:AA:444(A):A:H4'	2:AA:1445:C:O5'	2.04	0.57
2:AA:1456:G:C2	2:AA:1457:A:C8	2.92	0.57
2:AA:1479:G:N2	2:AA:1558:A:OP1	2.32	0.57
2:AA:1657:C:H3'	2:AA:1657:C:C6	2.39	0.57
2:AA:1667:G:O2'	2:AA:1668:A:OP2	2.22	0.57
2:AA:1769:G:O2'	2:AA:1770:G:C5'	2.53	0.57
2:AA:176:G:H3'	2:AA:177:G:C8	2.38	0.57
2:AA:1787:A:C2	2:AA:1788:C:N3	2.72	0.57
2:AA:1800:C:N4	2:AA:1817:G:N1	2.53	0.57
2:AA:1817:G:H8	2:AA:1817:G:C5'	2.17	0.57
2:AA:1793:C:N4	2:AA:1825:A:H61	2.02	0.57
2:AA:1928:A:H5''	2:AA:1928:A:H8	1.69	0.57
2:AA:204:A:OP1	2:AA:204:A:H8	1.86	0.57
2:AA:2219:G:O2'	2:AA:2224:G:H5'	2.04	0.57
2:AA:2228:G:N7	2:AA:2229:C:C4	2.72	0.57
2:AA:2250:G:C5'	15:AP:102:ARG:HD3	2.32	0.57
2:AA:2256:G:H4'	27:A3:5:LYS:HE2	1.86	0.57
2:AA:2265:U:H2'	2:AA:2266:A:OP1	2.03	0.57
2:AA:2265:U:C2'	2:AA:2266:A:OP1	2.52	0.57
2:AA:2348:U:H2'	2:AA:2349:G:O5'	2.04	0.57
2:AA:2389:G:H5''	2:AA:2390:U:C5'	2.34	0.57
2:AA:246:C:C4	2:AA:247:G:C6	2.92	0.57
2:AA:2563:U:H5''	13:AN:27:GLY:HA2	1.86	0.57
2:AA:2565:A:C2'	2:AA:2566:A:H1'	2.32	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2573:C:H5''	2:AA:2574:G:H5''	1.86	0.57
2:AA:2618:G:H2'	2:AA:2619:C:H6	1.69	0.57
2:AA:265:A:O2'	2:AA:266:G:C5'	2.53	0.57
2:AA:2705:A:H2'	2:AA:2706:G:H8	1.68	0.57
2:AA:2640:G:N2	2:AA:2774:C:N3	2.41	0.57
2:AA:2889:C:H2'	2:AA:2891:G:H8	1.69	0.57
2:AA:300:A:H1'	2:AA:319:C:O4'	2.04	0.57
2:AA:338:G:H8	2:AA:338:G:OP1	1.87	0.57
2:AA:370:G:O2'	2:AA:371:A:O5'	2.20	0.57
2:AA:466:A:C2	2:AA:796:C:H1'	2.40	0.57
2:AA:476:G:C4'	2:AA:505:A:C2	2.86	0.57
2:AA:542:C:O2'	2:AA:543:C:H5'	2.03	0.57
2:AA:577:G:C6	2:AA:578:A:N6	2.72	0.57
2:AA:618:G:N7	2:AA:618(A):C:N4	2.53	0.57
2:AA:625:G:HO2'	2:AA:656:G:H4'	1.69	0.57
2:AA:715:G:C3'	2:AA:715:G:P	2.92	0.57
2:AA:764:A:C5'	2:AA:765:G:OP2	2.52	0.57
2:AA:784:A:N6	2:AA:792:G:C4	2.72	0.57
2:AA:783:A:HO2'	2:AA:784:A:P	2.26	0.57
2:AA:785:G:N2	2:AA:786:C:N1	2.52	0.57
2:AA:8:A:H2'	2:AA:9:U:C6	2.39	0.57
3:AC:100:ILE:HG22	3:AC:126:LYS:CD	2.34	0.57
3:AC:14:VAL:HG23	3:AC:32:LEU:HD21	1.87	0.57
4:AD:141:HIS:O	4:AD:142:ASN:HB2	2.04	0.57
4:AD:162:GLN:O	4:AD:164:LEU:N	2.36	0.57
4:AD:203:PRO:O	4:AD:209:ASN:ND2	2.37	0.57
5:AE:182:GLU:O	5:AE:183:ASP:C	2.41	0.57
5:AE:41:PHE:C	5:AE:311:PHE:CZ	2.78	0.57
6:AF:231:ARG:O	6:AF:232:LEU:HG	2.04	0.57
6:AF:54:LEU:O	6:AF:79:ARG:NE	2.37	0.57
7:AG:134:LEU:CD1	7:AG:136:ARG:NH2	2.65	0.57
7:AG:156:ARG:CG	7:AG:156:ARG:O	2.52	0.57
7:AG:56:ARG:CD	7:AG:65:GLU:CB	2.79	0.57
7:AG:49:PRO:HB3	7:AG:72:LYS:C	2.21	0.57
9:AI:35:ALA:O	9:AI:39:VAL:CB	2.48	0.57
2:AA:1084:A:OP1	9:AI:39:VAL:N	2.36	0.57
9:AJ:115:LYS:O	9:AJ:119:GLU:HG3	2.05	0.57
11:AL:116:LEU:HD21	11:AL:127:ILE:CD1	2.30	0.57
12:AM:14:ALA:H	12:AM:40:ASN:ND2	1.99	0.57
13:AN:111:PHE:C	13:AN:115:ILE:HG13	2.23	0.57
15:AP:156:ASN:O	15:AP:157:ALA:CB	2.52	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AQ:102:LEU:HG	16:AQ:129:ILE:CD1	2.25	0.57
16:AQ:92:ALA:O	16:AQ:95:ALA:HB3	2.03	0.57
17:AR:21:PHE:O	17:AR:29:THR:O	2.21	0.57
18:AS:46:PHE:O	18:AS:49:LYS:HB3	2.05	0.57
22:AW:55:ARG:N	22:AW:55:ARG:HD2	2.12	0.57
22:AW:59:ILE:CG2	22:AW:60:GLN:H	2.17	0.57
34:BA:1007:C:N3	34:BA:1008:C:C4	2.72	0.57
34:BA:1234:C:N4	34:BA:1235:U:N3	2.53	0.57
34:BA:1268:A:O3'	56:BX:19:GLY:O	2.23	0.57
34:BA:1346:A:C8	34:BA:1348:U:N3	2.72	0.57
34:BA:1347:G:H1'	34:BA:1348:U:C5	2.39	0.57
34:BA:1357:A:N7	34:BA:1358:U:C4	2.72	0.57
34:BA:1399:C:O2	34:BA:1401:G:C5	2.57	0.57
34:BA:1440:C:H2'	34:BA:1441:G:H8	1.69	0.57
34:BA:1461:G:O2'	34:BA:1462:G:C5'	2.52	0.57
34:BA:1503:A:HO2'	34:BA:1504:G:P	2.28	0.57
34:BA:1530:G:C6	34:BA:1531:A:N6	2.73	0.57
34:BA:15:G:H4'	40:BH:24:ARG:NH1	2.15	0.57
34:BA:157:G:C2	34:BA:165:C:C4	2.92	0.57
34:BA:187:C:C2	34:BA:188:C:C6	2.93	0.57
34:BA:226:G:O2'	34:BA:227:G:C5'	2.53	0.57
34:BA:243:A:C2	34:BA:245:C:C2	2.93	0.57
34:BA:254:G:H2'	34:BA:255:G:C8	2.35	0.57
34:BA:350:G:H22	34:BA:351:G:N2	2.01	0.57
34:BA:363:A:OP2	47:BO:34:ARG:HB3	2.05	0.57
34:BA:484:G:C8	34:BA:486:U:C4	2.92	0.57
34:BA:692:U:N3	34:BA:695:A:OP2	2.29	0.57
34:BA:771:G:C4	34:BA:772:U:C5	2.92	0.57
34:BA:776:G:N2	34:BA:802:A:OP2	2.37	0.57
34:BA:859:A:C2'	34:BA:860:A:O5'	2.53	0.57
35:BB:65:G:N2	35:BB:66:A:C5	2.73	0.57
35:BB:65:G:N3	35:BB:66:A:C8	2.73	0.57
35:BC:33:U:C6	35:BC:35:A:OP2	2.57	0.57
37:BE:193:ASP:CG	37:BE:196:LEU:HD21	2.24	0.57
38:BF:113:ALA:HB3	38:BF:114:PRO:HD3	1.87	0.57
38:BF:12:LEU:CD1	38:BF:17:ASP:HA	2.34	0.57
38:BF:53:ALA:HB2	38:BF:115:LEU:CD2	2.31	0.57
38:BF:36:ASP:OD2	38:BF:57:ILE:HG21	2.04	0.57
40:BH:107:ARG:HB2	40:BH:107:ARG:CZ	2.34	0.57
40:BH:110:LEU:HB3	40:BH:115:VAL:CG2	2.34	0.57
40:BH:41:VAL:HG21	40:BH:113:ALA:CB	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BH:144:THR:HG22	40:BH:145:LYS:N	2.20	0.57
40:BH:75:THR:HA	40:BH:118:ILE:HD11	1.87	0.57
40:BH:94:ALA:H	40:BH:118:ILE:HG23	1.70	0.57
42:BJ:94:ARG:NH1	42:BJ:94:ARG:C	2.52	0.57
43:BK:84:ARG:HD3	43:BK:136:GLU:CD	2.25	0.57
44:BL:22:GLY:O	44:BL:58:ARG:O	2.22	0.57
44:BL:32:ASP:O	44:BL:35:GLU:CB	2.52	0.57
49:BQ:12:ARG:C	49:BQ:14:PRO:HD3	2.24	0.57
49:BQ:42:ILE:C	49:BQ:44:LEU:N	2.57	0.57
53:BU:51:LEU:O	53:BU:56:THR:HG23	2.04	0.57
54:BV:38:SER:O	54:BV:70:LYS:HA	2.05	0.57
10:AK:94:THR:C	10:AK:96:LYS:N	2.56	0.57
7:AG:58:VAL:HG13	7:AG:61:PHE:CD1	2.39	0.57
24:A0:96:ARG:CD	24:A0:115:GLU:OE1	2.53	0.57
24:A0:54:LEU:H	24:A0:54:LEU:HD13	1.68	0.57
2:AA:2882:A:P	24:A0:96:ARG:HB2	2.44	0.57
25:A1:69:ALA:HA	25:A1:79:PHE:HZ	1.66	0.57
28:A4:7:PRO:O	28:A4:60:ASN:OD1	2.22	0.57
32:A8:37:SER:HB3	32:A8:40:GLU:OE2	2.03	0.57
2:AA:1020:A:O2'	2:AA:1021:A:OP2	2.23	0.57
2:AA:1022:G:N2	2:AA:1140:C:C6	2.72	0.57
2:AA:1109:C:C5	2:AA:1110:G:N1	2.72	0.57
2:AA:1189:A:H8	2:AA:1189:A:O5'	1.87	0.57
2:AA:1306:C:O2'	2:AA:1307:A:H5'	2.04	0.57
2:AA:130:C:H2'	2:AA:130:C:O2	2.03	0.57
2:AA:1365:A:C6	2:AA:1366:A:C6	2.92	0.57
2:AA:1364:G:O4'	2:AA:1368:G:N2	2.38	0.57
2:AA:1408:C:C2	2:AA:1595:G:C2	2.93	0.57
2:AA:1424:G:H2'	2:AA:1425:G:C5'	2.33	0.57
2:AA:1432:C:O2	2:AA:1432:C:H2'	2.04	0.57
2:AA:1549:C:C2'	2:AA:1550:C:H5'	2.34	0.57
2:AA:1648:C:H2'	2:AA:1649:G:H8	1.68	0.57
2:AA:1689:A:C5	2:AA:1700:A:C6	2.92	0.57
2:AA:1806:C:H2'	2:AA:1807:G:C5'	2.35	0.57
2:AA:1812:A:H2'	2:AA:1813:G:C5'	2.35	0.57
2:AA:181:A:H8	2:AA:181:A:H5'	1.68	0.57
2:AA:1993:U:O2	2:AA:1994:C:O4'	2.23	0.57
2:AA:2119:A:O5'	2:AA:2120:G:H5''	2.03	0.57
2:AA:2134:A:H2	2:AA:2152:G:OP2	1.88	0.57
2:AA:2290:G:C6	2:AA:2291:U:C4	2.92	0.57
2:AA:2317:C:OP2	7:AG:142:ALA:O	2.23	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2346:A:O4'	2:AA:2383:G:H1'	2.04	0.57
2:AA:2424:C:O2	2:AA:2424:C:C2'	2.50	0.57
2:AA:2458:G:C4	2:AA:2490:G:C2	2.92	0.57
2:AA:2529:G:OP2	2:AA:2530:A:C8	2.58	0.57
2:AA:2548:G:C2'	2:AA:2549:G:O5'	2.51	0.57
2:AA:2573:C:C5'	2:AA:2574:G:OP1	2.53	0.57
2:AA:2646:C:HO2'	2:AA:2647:U:H5'	1.69	0.57
2:AA:270(X):G:C5	2:AA:270(Y):G:H1'	2.39	0.57
2:AA:279:C:O4'	2:AA:279:C:P	2.63	0.57
2:AA:2821:A:C2	2:AA:2822:G:C4	2.93	0.57
2:AA:2817:G:C2	2:AA:2830:G:C4	2.92	0.57
2:AA:330:A:C4'	2:AA:1210:A:N6	2.68	0.57
2:AA:410:G:N3	2:AA:2407:G:N7	2.52	0.57
2:AA:442:G:C2	6:AF:46:TYR:CZ	2.93	0.57
2:AA:510:C:H2'	2:AA:511:U:H6	1.69	0.57
2:AA:601:C:H2'	2:AA:601:C:O2	2.04	0.57
2:AA:65:C:C2	2:AA:66:C:C5	2.92	0.57
2:AA:737:C:C2'	2:AA:738:G:H5'	2.35	0.57
3:AC:77:ILE:CD1	3:AC:123:VAL:HG22	2.34	0.57
3:AC:140:PRO:C	3:AC:142:ALA:N	2.53	0.57
3:AC:41:VAL:HG22	3:AC:216:THR:HG22	1.86	0.57
3:AC:43:VAL:O	3:AC:172:HIS:HB2	2.05	0.57
5:AE:249:THR:O	5:AE:250:VAL:C	2.42	0.57
5:AE:42:ALA:O	5:AE:189:MET:CE	2.52	0.57
5:AE:72:VAL:HA	5:AE:294:THR:O	2.05	0.57
6:AF:32:GLY:C	6:AF:36:ARG:NE	2.51	0.57
6:AF:83:ALA:H	6:AF:87:ARG:HE	1.46	0.57
8:AH:148:ARG:NH2	8:AH:162:ARG:O	2.37	0.57
8:AH:58:LYS:HA	8:AH:61:ARG:NE	2.19	0.57
8:AH:77:GLY:O	8:AH:79:SER:N	2.36	0.57
9:AI:57:THR:HG21	9:AJ:110:GLU:CD	2.25	0.57
9:AJ:109:GLU:O	9:AJ:113:GLU:HG3	2.03	0.57
12:AM:45:VAL:CG1	12:AM:46:ILE:H	2.18	0.57
14:AO:67:ARG:NH2	14:AO:110:GLY:O	2.37	0.57
16:AQ:107:ASN:O	16:AQ:109:PRO:N	2.37	0.57
18:AS:30:GLU:N	18:AS:33:ARG:HD2	2.19	0.57
18:AS:12:ILE:CD1	18:AS:42:ARG:HD3	2.35	0.57
19:AT:14:ALA:HB1	19:AT:18:MET:CE	2.34	0.57
19:AT:6:LYS:HE3	19:AT:29:ASP:N	2.20	0.57
20:AU:41:ARG:HB2	20:AU:111:ARG:O	2.04	0.57
21:AV:137:ASP:C	21:AV:139:THR:H	2.08	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1049:U:H1'	34:BA:1201:A:H8	1.67	0.57
34:BA:1234:C:H5'	34:BA:1364:U:O2'	2.04	0.57
34:BA:1289:A:P	34:BA:1289:A:H3'	2.44	0.57
34:BA:1336:C:H4'	34:BA:1337:G:N3	2.19	0.57
34:BA:1345:U:H5''	34:BA:1346:A:OP1	2.05	0.57
34:BA:1357:A:N6	34:BA:1363:A:C2	2.73	0.57
34:BA:1390:U:C4	34:BA:1391:U:O4	2.58	0.57
34:BA:17:U:O2'	34:BA:1079:G:N3	2.37	0.57
34:BA:188:C:H2'	34:BA:189:G:O5'	2.04	0.57
34:BA:292:G:H3'	34:BA:293:G:H8	1.70	0.57
34:BA:54:C:N4	34:BA:357:G:H1	2.02	0.57
34:BA:36:C:H2'	34:BA:37:U:C6	2.39	0.57
34:BA:421:U:C6	34:BA:421:U:OP1	2.57	0.57
34:BA:536:C:O2	34:BA:536:C:H2'	2.03	0.57
34:BA:668:G:O2'	34:BA:669:U:H5'	2.03	0.57
34:BA:679:C:O2'	34:BA:680:C:H5'	2.05	0.57
34:BA:775:G:N2	34:BA:776:G:H1'	2.19	0.57
34:BA:865:A:C4	34:BA:866:C:O2	2.57	0.57
34:BA:913:A:O2'	34:BA:914:A:P	2.63	0.57
35:BB:52:U:H3	35:BB:62:A:H61	1.52	0.57
35:BC:40:C:C2'	35:BC:41:U:C5'	2.78	0.57
37:BE:95:GLN:HG3	37:BE:148:TYR:CD1	2.39	0.57
37:BE:82:ARG:O	37:BE:86:GLU:HG3	2.05	0.57
38:BF:156:ARG:CB	38:BF:196:LEU:HD22	2.34	0.57
38:BF:187:ALA:O	38:BF:198:VAL:HG23	2.04	0.57
39:BG:141:ARG:CB	39:BG:144:ASP:OD2	2.46	0.57
40:BH:87:SER:OG	40:BH:130:ASN:CB	2.51	0.57
43:BK:33:GLU:CB	43:BK:59:LEU:HD11	2.33	0.57
43:BK:45:ILE:O	43:BK:45:ILE:HG12	2.03	0.57
44:BL:48:GLU:HA	44:BL:51:ARG:CZ	2.33	0.57
34:BA:1151:A:H4'	45:BM:42:THR:OG1	2.05	0.57
45:BM:49:VAL:HG21	49:BQ:44:LEU:CD2	2.34	0.57
46:BN:62:GLN:O	46:BN:63:LEU:C	2.42	0.57
46:BN:80:VAL:HG12	46:BN:81:ASP:O	2.03	0.57
48:BP:15:VAL:HG11	48:BP:39:ILE:HD12	1.86	0.57
49:BQ:26:ARG:HD3	49:BQ:43:CYS:HB2	1.85	0.57
34:BA:994:A:C2	49:BQ:4:LYS:HB3	2.40	0.57
34:BA:668:G:C1'	50:BR:46:HIS:NE2	2.61	0.57
54:BV:5:LEU:CG	54:BV:9:VAL:HG22	2.34	0.57
55:BW:62:LEU:HA	55:BW:65:LYS:HG3	1.87	0.57
55:BW:86:ARG:HG2	55:BW:87:LYS:HG3	1.84	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:88:ARG:C	10:AK:122:ARG:HG2	2.24	0.57
2:AA:1511:A:C2'	2:AA:1512:G:H5''	2.34	0.57
2:AA:2426:A:C8	2:AA:2426:A:OP1	2.56	0.57
2:AA:1162:G:H4'	26:A2:23:GLU:CB	2.34	0.57
2:AA:1063:G:H5'	11:AL:135:MET:SD	2.45	0.57
2:AA:1065:U:H2'	2:AA:1066:U:H5''	1.86	0.57
2:AA:996:A:C5	2:AA:1160:G:C2	2.93	0.57
2:AA:137(A):G:C8	2:AA:138:G:N1	2.70	0.57
2:AA:1444:G:C3'	2:AA:1445:C:H5	2.18	0.57
2:AA:1513:C:H3'	2:AA:1513:C:H6	1.70	0.57
2:AA:1518:C:H3'	2:AA:1519:G:O4'	2.05	0.57
2:AA:1519:G:OP1	2:AA:1519:G:O3'	2.22	0.57
2:AA:1529:A:N7	2:AA:1543:A:H8	2.01	0.57
2:AA:1650:G:C6	2:AA:2008:C:N3	2.73	0.57
2:AA:16:G:H4'	29:A5:18:MET:SD	2.44	0.57
2:AA:1769:G:O2'	2:AA:1770:G:O5'	2.22	0.57
2:AA:1819:A:H4'	2:AA:1820:U:O5'	2.03	0.57
2:AA:1823:G:C2'	2:AA:1824:G:O5'	2.52	0.57
2:AA:1913:A:N7	2:AA:1918:A:N1	2.49	0.57
2:AA:1939:U:C3'	2:AA:1939:U:OP2	2.52	0.57
2:AA:1936:A:N3	2:AA:1940:U:C2	2.72	0.57
2:AA:1971:A:C3'	2:AA:1971:A:C8	2.86	0.57
2:AA:2015:A:C8	2:AA:2016:U:C5	2.93	0.57
2:AA:200:U:C3'	2:AA:201:C:H5'	2.34	0.57
2:AA:223:A:C6	2:AA:408:G:O4'	2.58	0.57
2:AA:2250:G:N7	15:AP:102:ARG:CA	2.56	0.57
2:AA:2422:A:C2'	2:AA:2424:C:C5	2.88	0.57
2:AA:246:C:N4	2:AA:247:G:N1	2.53	0.57
2:AA:2483:C:C4	2:AA:2484:G:N7	2.73	0.57
2:AA:2615:U:C2'	2:AA:2616:C:O5'	2.53	0.57
2:AA:2633:G:C2	2:AA:2634:G:C5	2.93	0.57
2:AA:2699:C:C4	2:AA:2708:G:N1	2.69	0.57
2:AA:2815:C:O2	2:AA:2816:C:C6	2.57	0.57
2:AA:356:G:H8	2:AA:356:G:O5'	1.87	0.57
2:AA:480:A:C2'	2:AA:481:G:OP1	2.52	0.57
2:AA:539:G:C2	2:AA:540:G:C5	2.92	0.57
2:AA:580:C:H2'	2:AA:581:C:C5	2.39	0.57
2:AA:604:G:H2'	2:AA:605:C:H6	1.70	0.57
2:AA:641:C:N3	2:AA:647:G:N2	2.53	0.57
2:AA:604:G:H21	2:AA:657:U:H4'	1.70	0.57
2:AA:783:A:C2'	2:AA:784:A:O5'	2.52	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:800:A:H1'	2:AA:802:A:H5'	1.86	0.57
2:AA:909:A:N1	2:AA:912:C:H1'	2.20	0.57
2:AA:971:C:N4	2:AA:972:G:H21	1.99	0.57
2:AA:989:G:O2'	2:AA:990:A:P	2.62	0.57
3:AC:59:ARG:HG3	3:AC:139:ASN:HD21	1.69	0.57
3:AC:74:VAL:HG21	3:AC:156:ILE:HD12	1.86	0.57
3:AC:225:ASN:C	3:AC:227:HIS:H	2.04	0.57
4:AD:68:ARG:HH21	4:AD:190:THR:CG2	2.18	0.57
2:AA:783:A:H5''	4:AD:230:ASN:HD21	1.68	0.57
6:AF:196:THR:HB	6:AF:200:PRO:HA	1.85	0.57
6:AF:225:PRO:O	6:AF:231:ARG:CG	2.48	0.57
8:AH:82:TYR:CE1	8:AH:137:LYS:HG3	2.39	0.57
2:AA:1084:A:P	9:AI:37:VAL:CA	2.92	0.57
11:AL:18:ALA:HB3	11:AL:43:ASN:HD21	1.66	0.57
12:AM:108:PRO:C	12:AM:109:TYR:CD1	2.78	0.57
12:AM:14:ALA:HB1	12:AM:17:CYS:SG	2.44	0.57
12:AM:54:VAL:CB	12:AM:135:ILE:HD12	2.35	0.57
13:AN:87:ILE:CG2	13:AN:92:SER:H	2.15	0.57
15:AP:20:ILE:HG13	15:AP:21:SER:N	2.10	0.57
18:AS:88:ARG:HA	18:AS:93:ALA:N	2.18	0.57
19:AT:3:ASP:C	19:AT:4:VAL:HG22	2.25	0.57
20:AU:15:PRO:HD2	20:AU:18:GLU:OE2	2.04	0.57
20:AU:27:LEU:HB3	20:AU:98:VAL:HB	1.85	0.57
20:AU:4:PRO:O	20:AU:5:ASP:HB2	2.05	0.57
21:AV:13:LYS:O	21:AV:15:ASP:N	2.38	0.57
21:AV:19:ILE:HG23	21:AV:80:HIS:H	1.69	0.57
22:AW:20:LEU:HD13	22:AW:23:LEU:HB2	1.87	0.57
34:BA:101:A:C4	34:BA:102:G:C8	2.92	0.57
34:BA:103:C:H1'	34:BA:151:A:C2	2.40	0.57
34:BA:1095:U:H2'	34:BA:1096:C:O4'	2.05	0.57
34:BA:1087:G:N2	34:BA:1099:G:H1'	2.18	0.57
34:BA:112:G:H4'	34:BA:389:A:H5''	1.87	0.57
34:BA:985:C:H42	34:BA:1220:G:H1	0.69	0.57
34:BA:1236:A:H5''	56:BX:2:GLY:N	2.20	0.57
34:BA:132:C:C6	34:BA:133:U:C5	2.92	0.57
34:BA:1352:C:C4	34:BA:1371:G:C6	2.92	0.57
34:BA:1487:G:O2'	34:BA:1488:G:H5'	2.04	0.57
34:BA:225:C:N3	34:BA:226:G:C8	2.72	0.57
34:BA:253:U:OP2	52:BT:67:LYS:HE3	2.05	0.57
34:BA:29:G:C5'	34:BA:296:U:OP1	2.53	0.57
34:BA:421:U:H5''	34:BA:422:C:C5	2.36	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:432:A:N7	34:BA:433:C:C4	2.72	0.57
34:BA:748:C:O2'	34:BA:749:C:O4'	2.22	0.57
34:BA:775:G:O2'	34:BA:776:G:C5'	2.52	0.57
34:BA:695:A:C2	34:BA:787:A:H4'	2.39	0.57
34:BA:988:G:C6	34:BA:989:C:N3	2.72	0.57
37:BE:25:ASN:HD21	37:BE:27:LYS:CG	2.17	0.57
37:BE:97:TRP:CH2	37:BE:173:ALA:HA	2.40	0.57
39:BG:133:VAL:HG11	39:BG:138:TYR:CD1	2.40	0.57
39:BG:4:TYR:O	39:BG:5:ILE:HB	2.03	0.57
39:BG:93:PHE:CZ	39:BG:97:LEU:HD11	2.39	0.57
40:BH:31:LEU:HD23	40:BH:32:VAL:N	2.20	0.57
40:BH:81:GLU:N	40:BH:81:GLU:CD	2.58	0.57
42:BJ:71:PRO:HG2	42:BJ:96:GLN:HA	1.87	0.57
44:BL:28:VAL:N	44:BL:31:GLN:O	2.31	0.57
45:BM:78:ASN:N	45:BM:78:ASN:ND2	2.52	0.57
47:BO:41:ARG:CG	47:BO:42:THR:H	1.98	0.57
48:BP:14:ARG:N	48:BP:44:ARG:CD	2.67	0.57
50:BR:4:THR:OG1	50:BR:7:GLU:OE2	2.20	0.57
53:BU:21:LYS:HZ3	53:BU:23:LYS:H	1.52	0.57
55:BW:51:GLU:O	55:BW:54:LYS:HB2	2.04	0.57
55:BW:57:ARG:O	55:BW:58:LYS:C	2.42	0.57
6:AF:63:SER:C	6:AF:65:ARG:H	2.07	0.57
43:BK:51:VAL:HG12	43:BK:52:ASP:N	2.20	0.57
24:A0:48:VAL:O	24:A0:51:LEU:HB2	2.04	0.57
2:AA:1263:U:C4'	29:A5:16:ARG:CZ	2.74	0.57
24:A0:100:LEU:C	29:A5:44:HIS:CD2	2.78	0.57
30:A6:16:ALA:C	30:A6:48:VAL:CG1	2.73	0.57
32:A8:56:ALA:O	32:A8:57:ARG:C	2.43	0.57
32:A8:60:LEU:O	32:A8:60:LEU:HD23	2.04	0.57
2:AA:1056:G:N2	2:AA:1104:C:N4	2.53	0.57
2:AA:106:C:C2'	2:AA:107:C:C5'	2.81	0.57
2:AA:1097:U:H2'	2:AA:1098:A:O5'	2.04	0.57
2:AA:1202:C:H1'	2:AA:1244:G:N2	2.20	0.57
2:AA:1356:G:H1	2:AA:1375:C:N4	2.03	0.57
2:AA:142(A):A:C6	2:AA:1143:A:N7	2.73	0.57
2:AA:1449:A:C2	2:AA:449(A):G:N9	2.73	0.57
2:AA:1525:G:H2'	2:AA:1526:G:O5'	2.05	0.57
2:AA:1582:C:O3'	2:AA:1583:A:H4'	2.04	0.57
2:AA:1675:C:C5	5:AE:225:LYS:CG	2.88	0.57
2:AA:1717:G:C6	2:AA:1742:C:C2	2.92	0.57
2:AA:1789:A:C4	2:AA:1790:C:H6	2.23	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1812:A:H2'	2:AA:1813:G:O4'	2.05	0.57
2:AA:1814:G:H2'	2:AA:1815:A:C8	2.40	0.57
2:AA:1826:G:OP1	4:AD:227:VAL:CG2	2.52	0.57
2:AA:1842:G:C5	2:AA:1843:C:C5	2.93	0.57
2:AA:1917:U:H5	2:AA:1918:A:C4	2.23	0.57
2:AA:1947:C:C2	2:AA:1948:G:C8	2.92	0.57
2:AA:2003:G:C6	2:AA:2004:G:C6	2.93	0.57
2:AA:2051:A:C5	2:AA:2614:A:N6	2.72	0.57
2:AA:2259:G:N2	2:AA:2282:G:C4	2.72	0.57
2:AA:2305:A:C2	7:AG:72:LYS:CE	2.87	0.57
2:AA:2582:G:H5'	2:AA:2582:G:H8	1.70	0.57
2:AA:2641:G:C6	2:AA:2774:C:C4	2.93	0.57
2:AA:270(A):A:C5	2:AA:270(X):G:N2	2.73	0.57
2:AA:2777:G:C8	2:AA:2777:G:O5'	2.58	0.57
2:AA:278:A:C8	2:AA:278:A:H3'	2.39	0.57
2:AA:2817:G:C2	2:AA:2830:G:C5	2.91	0.57
2:AA:2819:G:H3'	2:AA:2821:A:N6	2.09	0.57
2:AA:2892:A:H3'	2:AA:2893:G:C8	2.39	0.57
2:AA:297:C:N3	2:AA:342:G:N2	2.52	0.57
2:AA:451:C:OP1	6:AF:49:ASP:HB2	2.03	0.57
2:AA:468:G:H2'	2:AA:469:G:C5'	2.35	0.57
2:AA:492:A:H2'	2:AA:493:G:O5'	2.04	0.57
2:AA:522:G:O2'	2:AA:523:C:H5'	2.04	0.57
2:AA:533:G:H1'	2:AA:561:G:N2	2.20	0.57
2:AA:608:A:H2'	2:AA:609:A:C5'	2.34	0.57
2:AA:693:C:H2'	2:AA:694:U:H6	1.70	0.57
2:AA:853:G:N1	2:AA:924:C:N4	2.52	0.57
2:AA:870:A:N1	2:AA:907:U:C2	2.73	0.57
2:AA:933:A:H2'	2:AA:934:G:C5'	2.35	0.57
2:AA:973:A:C8	26:A2:80:TYR:HD2	2.22	0.57
2:AA:536:A:P	2:AA:994:C:H42	2.28	0.57
1:AB:40:U:C3'	1:AB:41:U:H5'	2.35	0.57
6:AF:103:ASN:HB3	6:AF:106:GLU:HG3	1.86	0.57
6:AF:200:PRO:CB	6:AF:205:ARG:HD3	2.35	0.57
2:AA:674:G:H5''	6:AF:69:HIS:HA	1.86	0.57
6:AF:93:LYS:HB3	6:AF:95:GLU:C	2.24	0.57
7:AG:45:THR:HG22	7:AG:83:PHE:CZ	2.38	0.57
7:AG:51:ARG:NH1	7:AG:72:LYS:HB2	2.08	0.57
8:AH:7:PRO:HA	8:AH:50:THR:OG1	2.03	0.57
10:AK:1:MET:HE2	10:AK:23:ASP:O	2.05	0.57
10:AK:37:ILE:HG23	10:AK:38:GLU:H	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:28:LEU:HB3	11:AL:33:VAL:CB	2.35	0.57
11:AL:33:VAL:HG22	11:AL:60:VAL:HG11	1.86	0.57
12:AM:15:ARG:HG3	12:AM:40:ASN:ND2	2.20	0.57
13:AN:103:ALA:HB3	13:AN:105:GLU:CG	2.34	0.57
2:AA:1665:A:HO2'	13:AN:67:ARG:NH1	2.03	0.57
14:AO:142:LEU:O	14:AO:145:LEU:HD12	2.05	0.57
2:AA:245:G:OP1	14:AO:53:ARG:HB2	2.04	0.57
14:AO:94:ARG:O	14:AO:120:LEU:HD13	2.05	0.57
15:AP:15:THR:O	15:AP:16:ARG:CG	2.53	0.57
2:AA:2278:A:H4'	15:AP:19:TYR:HB3	1.87	0.57
18:AS:55:ALA:CB	18:AS:107:LEU:HD11	2.34	0.57
2:AA:494:G:C4'	18:AS:6:ILE:O	2.53	0.57
19:AT:44:GLN:NE2	19:AT:44:GLN:O	2.37	0.57
21:AV:163:ASP:CG	21:AV:164:PRO:CD	2.72	0.57
21:AV:148:THR:CG2	21:AV:168:VAL:H	2.07	0.57
34:BA:1073:U:C2	34:BA:1074:G:N7	2.73	0.57
34:BA:1076:C:OP1	37:BE:179:LYS:NZ	2.37	0.57
34:BA:1077:G:N2	34:BA:1079:G:C3'	2.66	0.57
34:BA:1186:G:C2	34:BA:1187:G:C8	2.93	0.57
34:BA:132:C:O2'	34:BA:133:U:H6	1.87	0.57
34:BA:932:C:H42	34:BA:1385:G:H1	1.52	0.57
34:BA:819:A:C2	34:BA:1529:G:C5	2.93	0.57
34:BA:160:A:H1'	34:BA:344:A:N7	2.19	0.57
34:BA:16:A:H2	34:BA:17:U:O4'	1.87	0.57
34:BA:195:A:C4'	55:BW:68:LYS:HZ1	2.15	0.57
34:BA:442:C:N3	34:BA:443:C:C5	2.72	0.57
34:BA:660:G:H2'	34:BA:661:G:C8	2.36	0.57
34:BA:803:G:C6	34:BA:804:U:N3	2.73	0.57
34:BA:766:A:C5	34:BA:814:A:C2	2.92	0.57
34:BA:19:C:H1'	34:BA:864:A:C2	2.40	0.57
34:BA:22:G:O4'	34:BA:885:G:H1'	2.05	0.57
34:BA:907:A:H3'	34:BA:908:A:C8	2.39	0.57
35:BB:49:C:C4	35:BB:50:U:C4	2.92	0.57
35:BC:63:C:O2'	35:BC:64:A:O4'	2.21	0.57
37:BE:97:TRP:HE1	37:BE:102:LEU:HD11	1.70	0.57
39:BG:102:ASP:CG	39:BG:136:PRO:HB3	2.23	0.57
39:BG:75:PHE:CE1	39:BG:93:PHE:CZ	2.92	0.57
42:BJ:47:CYS:O	42:BJ:50:ILE:HB	2.04	0.57
43:BK:95:VAL:CG1	43:BK:133:LEU:HD11	2.34	0.57
43:BK:93:VAL:CG1	43:BK:133:LEU:HD12	2.34	0.57
44:BL:72:GLY:HA2	44:BL:75:ASP:OD1	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BM:42:THR:HG23	45:BM:67:THR:O	2.05	0.57
46:BN:13:GLN:N	46:BN:75:TYR:HB3	2.20	0.57
46:BN:73:MET:SD	46:BN:103:LEU:CD2	2.81	0.57
47:BO:102:ARG:C	47:BO:104:VAL:H	2.08	0.57
34:BA:520:A:OP2	47:BO:51:ALA:HB1	2.04	0.57
47:BO:87:GLY:HA2	47:BO:98:TYR:HA	1.87	0.57
47:BO:92:ASP:O	47:BO:92:ASP:CG	2.42	0.57
48:BP:54:VAL:O	48:BP:58:GLU:HG3	2.05	0.57
50:BR:39:LEU:CD2	50:BR:56:LEU:HD13	2.33	0.57
50:BR:74:ASP:C	50:BR:76:GLU:N	2.56	0.57
52:BT:27:PHE:O	52:BT:36:ILE:CD1	2.52	0.57
52:BT:70:ARG:C	52:BT:71:PHE:HD1	2.08	0.57
55:BW:42:GLN:CA	55:BW:42:GLN:HE21	2.16	0.57
55:BW:46:GLU:CB	55:BW:48:LYS:HE2	2.35	0.57
56:BX:23:PRO:HB2	56:BX:25:LYS:O	2.04	0.57
35:BB:40:C:O2'	48:BP:120:LYS:HE3	2.05	0.57
23:AX:3:ARG:HB2	23:AX:59:VAL:O	2.03	0.57
36:B1:17:G:H2'	36:B1:18:U:H5	1.67	0.57
15:AP:93:ILE:HG13	15:AP:110:GLY:HA3	1.86	0.57
53:BU:34:TYR:CD1	53:BU:35:ARG:HG3	2.40	0.57
53:BU:34:TYR:CD1	53:BU:35:ARG:N	2.73	0.57
26:A2:52:GLY:O	26:A2:53:LYS:C	2.43	0.57
27:A3:61:ALA:CB	27:A3:80:SER:HA	2.35	0.57
29:A5:34:PRO:CD	29:A5:35:GLN:N	2.67	0.57
2:AA:1124:C:H3'	2:AA:1125:G:C8	2.39	0.57
2:AA:1198:U:O2	2:AA:1199:U:C5	2.58	0.57
2:AA:1198:U:H2'	2:AA:1199:U:H6	1.69	0.57
2:AA:1202:C:C4	2:AA:1243:G:C2	2.92	0.57
2:AA:1215:G:O3'	25:A1:8:ILE:CG2	2.52	0.57
2:AA:1270:C:O2	2:AA:1325:G:N7	2.38	0.57
2:AA:127:A:H5''	2:AA:128:C:C6	2.40	0.57
2:AA:146:G:H2'	2:AA:147:U:C5'	2.35	0.57
2:AA:1529:A:N7	2:AA:1542:G:O6	2.37	0.57
2:AA:1615:C:C5	2:AA:1617:C:C6	2.93	0.57
2:AA:1726:G:O6	2:AA:1727:U:C2	2.58	0.57
2:AA:1734:C:O2'	2:AA:1735:C:H5'	2.05	0.57
2:AA:1741:C:O2	2:AA:1742:C:O4'	2.23	0.57
2:AA:1794:U:H4'	2:AA:1900:A:C5	2.39	0.57
2:AA:181:A:H3'	2:AA:181:A:OP2	2.04	0.57
2:AA:1930:G:C2	2:AA:1968:G:N7	2.73	0.57
2:AA:2033:A:O2'	2:AA:2034:U:P	2.62	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2051:A:C8	2:AA:2051:A:OP2	2.57	0.57
2:AA:197:A:H5''	2:AA:2068:U:C4	2.40	0.57
2:AA:2096:U:C2	2:AA:2097:C:H5	2.22	0.57
2:AA:2123:G:N2	3:AC:217:THR:HG23	2.20	0.57
2:AA:2409:G:N2	2:AA:2410:G:H1'	2.20	0.57
2:AA:2582:G:HO2'	2:AA:2583:G:H5'	1.69	0.57
2:AA:2532:G:N2	2:AA:2662:A:H61	2.02	0.57
2:AA:2680:C:P	5:AE:206:LYS:HD2	2.44	0.57
2:AA:2690:C:C2'	2:AA:2691:C:OP2	2.52	0.57
2:AA:2738:A:N6	2:AA:2767:C:H42	2.02	0.57
2:AA:2882:A:C2'	2:AA:2883:A:O5'	2.52	0.57
2:AA:2887:U:O2'	2:AA:2888:C:H5'	2.04	0.57
2:AA:246:C:O2'	2:AA:385:C:C5'	2.52	0.57
2:AA:588:U:C6	2:AA:589:C:H5	2.22	0.57
2:AA:639:U:O2	2:AA:649:G:N2	2.36	0.57
2:AA:604:G:N2	2:AA:657:U:H4'	2.20	0.57
2:AA:675:A:O2'	2:AA:676:A:C5'	2.43	0.57
2:AA:742:G:C2'	2:AA:743:G:O5'	2.52	0.57
2:AA:969:U:C2	2:AA:970:C:C5	2.92	0.57
2:AA:991:C:O2'	2:AA:992:C:H5'	2.05	0.57
3:AC:100:ILE:O	3:AC:127:LEU:HD21	2.05	0.57
3:AC:41:VAL:HG22	3:AC:216:THR:CG2	2.34	0.57
3:AC:68:LEU:CG	3:AC:72:VAL:HG21	2.34	0.57
5:AE:229:GLN:O	5:AE:230:GLY:C	2.42	0.57
5:AE:315:VAL:CG1	5:AE:316:ARG:N	2.60	0.57
5:AE:72:VAL:HG13	5:AE:295:LEU:HD21	1.85	0.57
6:AF:242:GLU:O	6:AF:243:VAL:C	2.43	0.57
2:AA:674:G:H4'	6:AF:69:HIS:C	2.25	0.57
1:AB:57:A:C1'	7:AG:13:MET:SD	2.93	0.57
9:AI:42:ALA:HB3	9:AI:43:PRO:CD	2.34	0.57
9:AJ:118:LEU:HB2	9:AJ:125:VAL:CG2	2.35	0.57
9:AJ:17:GLU:O	9:AJ:21:LEU:HB2	2.05	0.57
10:AK:3:VAL:CG2	10:AK:21:VAL:H	2.17	0.57
13:AN:66:LYS:NZ	13:AN:82:ASN:ND2	2.48	0.57
15:AP:127:ASN:CB	15:AP:128:PRO:CD	2.72	0.57
15:AP:48:ASN:ND2	15:AP:122:PHE:CA	2.68	0.57
16:AQ:36:ALA:CB	16:AQ:118:ILE:HD13	2.34	0.57
18:AS:15:ARG:O	18:AS:18:ARG:HB2	2.05	0.57
18:AS:45:TYR:CD2	18:AS:46:PHE:N	2.73	0.57
19:AT:23:LYS:HA	19:AT:66:VAL:O	2.04	0.57
20:AU:9:LYS:HE3	20:AU:13:ARG:NH1	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AU:19:ARG:CA	20:AU:21:LYS:HZ3	2.17	0.57
22:AW:27:LEU:HD11	22:AW:49:LEU:HB3	1.87	0.57
34:BA:110:C:H3'	34:BA:111:G:H8	1.70	0.57
34:BA:1128:C:C4	34:BA:1139:G:N1	2.72	0.57
34:BA:1128:C:O2	34:BA:1146:A:N6	2.37	0.57
34:BA:1278:U:H5''	34:BA:1279:A:C5'	2.34	0.57
34:BA:1400:C:C6	34:BA:1400:C:OP1	2.58	0.57
34:BA:1413:A:H61	34:BA:1487:G:H1	1.53	0.57
34:BA:152:A:OP2	34:BA:153:C:N4	2.33	0.57
34:BA:189:G:H2'	34:BA:190:C:C6	2.39	0.57
34:BA:133:U:O4	34:BA:229:U:O4	2.23	0.57
34:BA:329:A:C6	34:BA:332:G:C2	2.93	0.57
34:BA:447:G:N2	34:BA:487:A:H62	2.03	0.57
34:BA:498:U:O2	34:BA:499:A:C8	2.58	0.57
34:BA:522:C:H5''	47:BO:120:TYR:OH	2.05	0.57
34:BA:724:G:N2	34:BA:725:G:H1'	2.20	0.57
34:BA:888:G:H3'	34:BA:889:A:C8	2.40	0.57
34:BA:956:U:OP2	34:BA:956:U:C6	2.58	0.57
35:BB:62:A:HO2'	35:BB:63:C:H5'	1.67	0.57
35:BC:25:C:H2'	35:BC:26:G:O4'	2.04	0.57
37:BE:118:LEU:HD11	37:BE:145:LEU:HG	1.82	0.57
38:BF:15:THR:CB	38:BF:181:ASN:OD1	2.51	0.57
38:BF:159:GLY:HA2	38:BF:193:TYR:CD1	2.40	0.57
38:BF:60:ALA:HB3	45:BM:92:THR:OG1	2.04	0.57
39:BG:177:ASP:OD1	39:BG:182:LYS:HG3	2.05	0.57
39:BG:19:LEU:C	39:BG:31:CYS:SG	2.82	0.57
39:BG:61:LYS:HA	39:BG:203:VAL:CG2	2.34	0.57
43:BK:116:LYS:HB3	43:BK:119:LEU:HD11	1.87	0.57
44:BL:38:GLN:O	44:BL:40:LEU:N	2.37	0.57
34:BA:685:G:H4'	46:BN:40:ILE:O	2.04	0.57
53:BU:74:ARG:N	53:BU:74:ARG:HD2	2.16	0.57
54:BV:36:ARG:C	54:BV:38:SER:H	2.08	0.57
55:BW:53:LEU:O	55:BW:56:MET:CB	2.48	0.57
35:BB:11:C:C2	35:BB:12:U:C6	2.92	0.57
25:A1:17:VAL:HG13	25:A1:39:LEU:HD12	1.85	0.57
26:A2:43:GLU:C	26:A2:44:GLN:NE2	2.57	0.57
27:A3:31:VAL:CG1	27:A3:32:LYS:N	2.67	0.57
28:A4:41:PRO:HB3	28:A4:59:PHE:CE1	2.37	0.57
28:A4:46:GLU:O	28:A4:47:GLU:HG3	2.05	0.57
28:A4:58:LYS:C	28:A4:62:ARG:HE	2.07	0.57
30:A6:28:ARG:O	30:A6:29:ARG:C	2.44	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:A8:20:GLY:O	32:A8:57:ARG:CZ	2.52	0.57
2:AA:1021:A:C2	2:AA:1023:U:C1'	2.84	0.57
2:AA:1058:G:N1	2:AA:1081:U:C2	2.73	0.57
2:AA:1120:G:C5	2:AA:1121:C:C5	2.93	0.57
2:AA:1142:U:H6	2:AA:142(A):A:C5'	2.03	0.57
2:AA:1144:G:C5	2:AA:1145:C:C5	2.93	0.57
2:AA:1180:C:O2'	2:AA:1181:C:O5'	2.23	0.57
2:AA:1344:G:C2'	2:AA:1345:C:OP1	2.51	0.57
2:AA:137(A):G:C5	2:AA:142:G:N2	2.66	0.57
2:AA:154:G:H3'	2:AA:155:C:H6	1.70	0.57
2:AA:1771:C:C2	2:AA:1772:G:C8	2.93	0.57
2:AA:1840:G:N2	2:AA:1841:U:H1'	2.19	0.57
2:AA:1930:G:N9	2:AA:1968:G:O6	2.38	0.57
2:AA:2042:A:H62	12:AM:90:LYS:NZ	2.03	0.57
2:AA:2047:U:O2	2:AA:2048:G:N7	2.38	0.57
2:AA:2225:A:C5'	2:AA:2226:C:H5'	2.19	0.57
2:AA:2331:G:H2'	2:AA:2332:U:C1'	2.35	0.57
2:AA:2373:G:O2'	2:AA:2374:C:O5'	2.22	0.57
2:AA:251:A:H2'	2:AA:252:G:C4'	2.35	0.57
2:AA:2554:U:H3'	2:AA:2554:U:H6	1.69	0.57
2:AA:2572:A:H5''	2:AA:2574:G:H5'	1.86	0.57
2:AA:2618:G:O2'	2:AA:2619:C:H5'	2.04	0.57
2:AA:1629:U:O2'	2:AA:2698:U:OP1	2.17	0.57
2:AA:270(V):G:C6	2:AA:270(W):G:N7	2.73	0.57
2:AA:2850:A:H62	2:AA:2866:U:H3	1.53	0.57
2:AA:463:G:N2	2:AA:467:G:N9	2.53	0.57
2:AA:479:A:H1'	2:AA:480:A:C8	2.39	0.57
2:AA:528:A:H2	2:AA:2043:C:C4'	2.17	0.57
2:AA:612:G:C4'	2:AA:616:A:N1	2.68	0.57
2:AA:745:G:O2'	2:AA:746:A:H5'	2.05	0.57
2:AA:782:A:H4'	2:AA:783:A:C5	2.40	0.57
2:AA:830:G:C5	2:AA:2448:A:C8	2.93	0.57
1:AB:54:G:C4	1:AB:55:U:C5	2.92	0.57
1:AB:58:A:N6	1:AB:59:A:N6	2.53	0.57
3:AC:131:LEU:HB2	3:AC:137:LEU:CD2	2.34	0.57
3:AC:70:LYS:CG	3:AC:157:LYS:NZ	2.64	0.57
3:AC:14:VAL:CG2	3:AC:32:LEU:HD11	2.34	0.57
3:AC:89:ALA:HA	3:AC:154:ARG:CZ	2.35	0.57
4:AD:76:ARG:NH1	4:AD:113:MET:HB2	2.06	0.57
4:AD:173:VAL:O	4:AD:175:LEU:HD23	2.05	0.57
4:AD:208:GLY:CA	4:AD:211:HIS:NE2	2.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:210:LYS:HE2	4:AD:211:HIS:CD2	2.40	0.57
5:AE:94:ARG:HB3	5:AE:95:PRO:HD2	1.85	0.57
6:AF:16:VAL:HG12	6:AF:17:ASP:H	1.70	0.57
7:AG:14:ARG:HA	7:AG:137:PRO:CG	2.35	0.57
9:AJ:103:LYS:HD3	9:AJ:114:ILE:CG1	2.34	0.57
11:AL:18:ALA:HB1	11:AL:39:CYS:O	2.04	0.57
12:AM:68:GLY:O	12:AM:69:TYR:HB2	2.05	0.57
13:AN:60:ALA:CB	13:AN:85:VAL:O	2.44	0.57
14:AO:131:GLU:HA	14:AO:134:GLU:OE1	2.05	0.57
16:AQ:12:ARG:HD2	16:AQ:20:TYR:CZ	2.39	0.57
17:AR:48:ASN:C	17:AR:49:LEU:O	2.41	0.57
19:AT:42:GLU:OE1	19:AT:49:VAL:CG2	2.53	0.57
21:AV:18:MET:HG3	21:AV:35:ASP:CB	2.33	0.57
36:B1:59:A:OP2	36:B1:59:A:C4'	2.53	0.57
34:BA:1080:A:C8	34:BA:1081:G:C1'	2.88	0.57
34:BA:1125:U:H2'	34:BA:1126:U:OP2	2.04	0.57
34:BA:1256:A:H61	34:BA:1278:U:C2'	2.18	0.57
34:BA:1260:C:O2'	34:BA:1283:G:H4'	2.03	0.57
34:BA:1326:C:O3'	56:BX:19:GLY:HA3	2.05	0.57
34:BA:1366:C:OP2	44:BL:117:HIS:NE2	2.37	0.57
34:BA:1374:A:C4	34:BA:1375:A:C8	2.92	0.57
34:BA:937:A:H1'	34:BA:1379:G:C2	2.39	0.57
34:BA:1480:G:H2'	34:BA:1481:U:O5'	2.04	0.57
34:BA:1494:G:C4	34:BA:1495:U:H5	2.22	0.57
34:BA:392:G:C5'	51:BS:12:LYS:NZ	2.68	0.57
34:BA:501:C:O2'	34:BA:549:C:O2	2.17	0.57
34:BA:897:C:H2'	34:BA:898:G:C8	2.40	0.57
34:BA:925:G:C6	34:BA:1392:G:C6	2.93	0.57
34:BA:944:G:H21	34:BA:1339:A:N6	1.89	0.57
34:BA:951:G:N2	34:BA:952:U:H1'	2.20	0.57
34:BA:964:A:N6	34:BA:965:A:N6	2.52	0.57
34:BA:988:G:C6	34:BA:989:C:C2	2.92	0.57
35:BB:60:C:C4'	35:BB:61:C:OP2	2.53	0.57
35:BC:44:A:C6	35:BC:45:G:C2	2.93	0.57
37:BE:118:LEU:O	37:BE:119:GLU:C	2.42	0.57
37:BE:145:LEU:HD12	37:BE:149:LEU:CD1	2.35	0.57
37:BE:204:ASN:C	37:BE:204:ASN:HD22	2.07	0.57
37:BE:45:GLN:N	37:BE:45:GLN:OE1	2.36	0.57
38:BF:157:ILE:HD12	38:BF:164:ARG:CG	2.33	0.57
38:BF:159:GLY:O	38:BF:160:ALA:O	2.22	0.57
38:BF:10:PHE:HZ	38:BF:178:LEU:HA	1.66	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BF:47:LEU:HD13	38:BF:83:ARG:NH2	2.20	0.57
38:BF:94:LEU:O	38:BF:94:LEU:HD23	2.04	0.57
40:BH:109:ILE:HD12	40:BH:135:THR:HG22	1.85	0.57
42:BJ:68:ASN:HB3	42:BJ:135:VAL:HG22	1.86	0.57
42:BJ:70:LYS:HB3	42:BJ:96:GLN:HG2	1.86	0.57
45:BM:24:VAL:HG22	45:BM:34:VAL:HG11	1.87	0.57
47:BO:84:LEU:CA	47:BO:104:VAL:HG11	2.35	0.57
51:BS:18:ARG:HD3	51:BS:35:LYS:HZ2	1.68	0.57
53:BU:46:GLU:OE2	53:BU:46:GLU:N	2.37	0.57
34:BA:719:C:O2	53:BU:50:ILE:CG1	2.53	0.57
53:BU:72:ARG:O	53:BU:76:LEU:HD23	2.05	0.57
54:BV:15:LEU:HD12	54:BV:44:MET:HE1	1.86	0.57
10:AK:76:THR:CB	10:AK:142:LYS:HE2	2.35	0.57
10:AK:88:ARG:HB3	10:AK:122:ARG:CD	2.34	0.57
35:BB:23:A:C2	35:BB:24:G:C4	2.93	0.57
37:BE:130:ARG:HB3	37:BE:134:GLU:HG3	1.85	0.57
1:AB:65:C:H2'	1:AB:66:A:H5'	1.87	0.57
2:AA:1532:C:OP2	2:AA:1533:C:H5	1.88	0.57
18:AS:56:ALA:O	18:AS:60:ASN:ND2	2.38	0.57
24:A0:51:LEU:CD2	24:A0:70:LEU:HD21	2.32	0.57
24:A0:99:LYS:O	29:A5:44:HIS:NE2	2.38	0.57
2:AA:2021:C:C5	25:A1:25:TRP:CZ2	2.93	0.57
27:A3:14:ARG:CD	27:A3:14:ARG:C	2.68	0.57
28:A4:14:ILE:HD12	28:A4:39:VAL:HG21	1.86	0.57
2:AA:1364:G:P	28:A4:3:LYS:HG2	2.44	0.57
32:A8:9:MET:O	32:A8:14:ILE:CB	2.52	0.57
2:AA:1102:C:O2	2:AA:1102:C:H2'	2.04	0.57
2:AA:1105:U:HO2'	9:AI:27:ASP:C	2.03	0.57
2:AA:1465:G:C4	2:AA:1466:G:C8	2.93	0.57
2:AA:1585:C:H5''	2:AA:1586:A:OP1	2.05	0.57
2:AA:1653:G:C5'	2:AA:1653:G:C8	2.88	0.57
2:AA:1743:G:H2'	2:AA:1746:G:H5'	1.87	0.57
2:AA:1770:G:C4	2:AA:1771:C:C5	2.93	0.57
2:AA:1826:G:OP1	4:AD:227:VAL:HG22	2.04	0.57
2:AA:2047:U:C2'	2:AA:2048:G:O5'	2.53	0.57
2:AA:2078:C:H4'	2:AA:2434:A:H5'	1.86	0.57
2:AA:2127:G:N7	2:AA:2174:C:C6	2.72	0.57
2:AA:2186:G:C2	2:AA:2187:G:O6	2.58	0.57
2:AA:2251:G:OP1	15:AP:102:ARG:CD	2.52	0.57
2:AA:2362:G:OP1	32:A8:29:LYS:CE	2.52	0.57
2:AA:2472:G:O6	2:AA:2476:A:H4'	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2654:A:N6	2:AA:2667:C:H42	2.03	0.57
2:AA:278:A:H8	2:AA:278:A:H3'	1.70	0.57
2:AA:2824:C:N4	2:AA:2825:C:C2	2.73	0.57
2:AA:2879:C:C5'	2:AA:2880:C:OP1	2.51	0.57
2:AA:290:G:H22	2:AA:350:U:C1'	2.17	0.57
2:AA:307:G:H22	2:AA:310:A:C4'	2.17	0.57
2:AA:301:G:C8	2:AA:317:G:C2	2.93	0.57
2:AA:503:A:OP2	2:AA:503:A:H8	1.88	0.57
2:AA:595:C:O2'	2:AA:596:G:H5'	2.04	0.57
2:AA:675:A:H2'	2:AA:676:A:N3	2.19	0.57
2:AA:71:A:O2'	2:AA:72:U:P	2.62	0.57
2:AA:193:U:H5''	2:AA:803:U:H1'	1.86	0.57
2:AA:901:A:C6	2:AA:902:C:C4	2.92	0.57
1:AB:104:A:H2'	1:AB:105:G:H5'	1.87	0.57
1:AB:15:A:O4'	1:AB:15:A:P	2.63	0.57
1:AB:89:G:H2'	1:AB:89(A):A:C5	2.39	0.57
1:AB:96:G:C6	1:AB:97:G:N7	2.72	0.57
2:AA:2125:G:C5'	3:AC:130:ILE:HG13	2.35	0.57
4:AD:130:PRO:HB2	4:AD:132:GLU:HB3	1.86	0.57
4:AD:174:ARG:CG	4:AD:174:ARG:NH1	2.60	0.57
4:AD:160:SER:C	4:AD:176:ALA:HB2	2.24	0.57
5:AE:269:ILE:HD11	5:AE:297:LYS:N	2.20	0.57
6:AF:35:VAL:HG12	6:AF:39:GLN:HE21	1.69	0.57
6:AF:86:GLY:O	6:AF:87:ARG:HB2	2.05	0.57
8:AH:150:VAL:O	8:AH:152:PRO:HD3	2.05	0.57
2:AA:1084:A:OP2	9:AI:35:ALA:C	2.42	0.57
9:AI:4:ASP:CG	11:AL:114:PRO:O	2.43	0.57
9:AJ:85:LEU:HD12	11:AL:57:VAL:HG12	1.87	0.57
11:AL:56:VAL:HG12	11:AL:58:ILE:CG1	2.35	0.57
2:AA:1012:U:O2	12:AM:21:ARG:CZ	2.53	0.57
12:AM:53:ILE:HG23	12:AM:135:ILE:CD1	2.35	0.57
12:AM:63:ILE:HD12	12:AM:71:TYR:CE2	2.40	0.57
12:AM:83:ILE:HG13	12:AM:84:ARG:N	2.20	0.57
15:AP:60:ALA:O	15:AP:63:ALA:HB3	2.05	0.57
15:AP:34:GLY:CA	15:AP:74:ASN:O	2.47	0.57
18:AS:36:LEU:CD1	18:AS:48:ALA:HA	2.34	0.57
18:AS:80:PRO:O	18:AS:100:THR:OG1	2.14	0.57
19:AT:37:VAL:O	19:AT:41:VAL:HG23	2.05	0.57
19:AT:7:HIS:HB2	19:AT:8:PRO:HD2	1.87	0.57
21:AV:122:ILE:O	21:AV:161:ALA:HB3	2.05	0.57
21:AV:13:LYS:HZ3	21:AV:33:ALA:HA	1.64	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1141:C:C2	34:BA:1142:G:C8	2.93	0.57
34:BA:1269:A:N6	34:BA:1312:G:O2'	2.37	0.57
34:BA:1342:C:O2'	44:BL:124:GLN:HB2	2.04	0.57
34:BA:1387:G:C6	34:BA:1388:C:N4	2.73	0.57
34:BA:1438:G:C5	34:BA:1439:C:C5	2.93	0.57
34:BA:1451:A:H3'	34:BA:1451:A:H8	1.69	0.57
34:BA:1399:C:N4	34:BA:1504:G:H1	2.03	0.57
34:BA:163:C:H2'	34:BA:164:U:O4'	2.04	0.57
34:BA:17:U:C2	34:BA:18:C:C5	2.93	0.57
34:BA:236:G:C5'	52:BT:42:TYR:OH	2.53	0.57
34:BA:285:G:C6	34:BA:286:G:N7	2.73	0.57
34:BA:285:G:C4	34:BA:286:G:C8	2.93	0.57
34:BA:28:G:H1	34:BA:555:C:H42	1.52	0.57
34:BA:328:C:O2'	34:BA:329:A:OP2	2.22	0.57
34:BA:62:U:H4'	34:BA:385:C:O2	2.04	0.57
34:BA:373:A:C8	34:BA:482:A:N7	2.73	0.57
34:BA:538:G:OP1	47:BO:113:ARG:HD3	2.05	0.57
34:BA:598:U:C4'	43:BK:94:TYR:CD2	2.87	0.57
2:AA:1848:A:C2	34:BA:702:A:C6	2.93	0.57
34:BA:712:A:O2'	34:BA:713:G:H5'	2.05	0.57
34:BA:716:A:H1'	46:BN:118:GLY:CA	2.35	0.57
34:BA:814:A:O2'	34:BA:815:A:O5'	2.22	0.57
34:BA:880:C:C2'	34:BA:881:G:O5'	2.52	0.57
34:BA:530:G:C5	35:BB:35:A:O4'	2.57	0.57
35:BB:18:G:N2	35:BB:57:G:C4	2.73	0.57
35:BC:34:G:H2'	35:BC:35:A:H5"	1.87	0.57
37:BE:75:LYS:HE3	37:BE:78:GLN:CG	2.34	0.57
37:BE:80:ILE:HD12	37:BE:208:ILE:HG12	1.86	0.57
38:BF:84:ILE:HG13	38:BF:101:LEU:CG	2.35	0.57
39:BG:100:ARG:O	39:BG:103:ASN:HB3	2.05	0.57
39:BG:30:LYS:C	39:BG:32:ALA:N	2.59	0.57
39:BG:43:HIS:CA	39:BG:46:LYS:HG3	2.35	0.57
40:BH:103:GLY:O	40:BH:106:PRO:HD2	2.04	0.57
40:BH:105:VAL:O	40:BH:106:PRO:C	2.43	0.57
42:BJ:32:ARG:O	42:BJ:33:ASP:HB2	2.05	0.57
40:BH:78:HIS:HB3	43:BK:107:LEU:CD1	2.34	0.57
43:BK:120:THR:O	43:BK:123:GLU:OE2	2.23	0.57
43:BK:6:ILE:HG21	43:BK:85:ARG:HH12	1.69	0.57
44:BL:10:ARG:C	44:BL:104:ARG:HH21	2.08	0.57
45:BM:48:THR:OG1	45:BM:62:HIS:HB3	2.05	0.57
46:BN:73:MET:O	46:BN:74:ALA:C	2.42	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1227:A:C2'	48:BP:115:LYS:HB3	2.34	0.57
48:BP:37:THR:HG21	48:BP:56:LEU:HD23	1.87	0.57
50:BR:36:ILE:HG13	50:BR:59:MET:HE1	1.86	0.57
50:BR:70:LEU:HG	50:BR:78:TYR:HB2	1.85	0.57
51:BS:78:GLY:O	51:BS:79:VAL:HG22	2.05	0.57
52:BT:53:LEU:HD21	52:BT:85:VAL:HG11	1.87	0.57
53:BU:56:THR:CB	53:BU:58:LEU:HG	2.27	0.57
53:BU:73:ALA:HB1	53:BU:79:LEU:HD11	1.87	0.57
54:BV:33:THR:O	54:BV:57:HIS:HE1	1.88	0.57
54:BV:51:VAL:O	54:BV:58:VAL:HG22	2.05	0.57
55:BW:82:SER:OG	55:BW:83:ARG:N	2.37	0.57
10:AK:112:LYS:C	10:AK:114:LYS:N	2.57	0.57
10:AK:131:VAL:O	10:AK:133:LEU:HG	2.04	0.57
35:BB:23:A:C2	35:BB:24:G:C2	2.93	0.57
37:BE:132:LYS:HB2	37:BE:133:LYS:CE	2.34	0.57
2:AA:1037:G:H22	2:AA:1119:C:H1'	1.70	0.57
25:A1:115:ASN:C	25:A1:117:ARG:N	2.56	0.56
26:A2:4:ILE:O	26:A2:39:PHE:CE2	2.57	0.56
26:A2:21:ARG:C	26:A2:92:ALA:HB1	2.22	0.56
28:A4:68:ARG:HB3	28:A4:71:SER:O	2.05	0.56
31:A7:21:ARG:CZ	31:A7:43:THR:CG2	2.82	0.56
32:A8:21:LYS:HD2	32:A8:48:PHE:CE1	2.40	0.56
2:AA:1018:C:H2'	2:AA:1019:U:C5'	2.34	0.56
2:AA:1066:U:C2	2:AA:1069:A:OP2	2.57	0.56
2:AA:1061:U:C4'	2:AA:1070:A:C1'	2.63	0.56
2:AA:812:C:H42	2:AA:1195:G:H1	1.52	0.56
2:AA:1317:A:H8	2:AA:1317:A:O5'	1.87	0.56
2:AA:1353:A:N1	2:AA:1354:A:C5	2.72	0.56
2:AA:134:C:C4	2:AA:135:G:N7	2.73	0.56
2:AA:1344:G:C6	2:AA:1385:G:N7	2.73	0.56
2:AA:1449:A:C2'	2:AA:449(A):G:O5'	2.53	0.56
2:AA:1498:C:H3'	2:AA:1499:C:C6	2.38	0.56
2:AA:1571:A:N3	2:AA:1571:A:C2'	2.68	0.56
2:AA:1593:G:H2'	2:AA:1594:G:H8	1.69	0.56
2:AA:161:U:H4'	2:AA:162:U:C2	2.40	0.56
2:AA:48:G:C4	2:AA:178:G:N2	2.73	0.56
2:AA:185:U:H2'	2:AA:186:G:C8	2.37	0.56
2:AA:18:C:N3	2:AA:19:C:C5	2.73	0.56
2:AA:2078:C:O2'	2:AA:2079:U:H5'	2.05	0.56
2:AA:2107:C:N3	2:AA:2182:G:C2	2.73	0.56
2:AA:214:G:H22	2:AA:215:G:N2	2.02	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2251:G:C5'	15:AP:102:ARG:CZ	2.82	0.56
2:AA:2277:G:O3'	15:AP:15:THR:CG2	2.53	0.56
2:AA:2312:U:C2'	7:AG:72:LYS:NZ	2.65	0.56
2:AA:2313:C:OP1	7:AG:51:ARG:CG	2.53	0.56
2:AA:2320:A:H1'	2:AA:2333:A:H62	1.65	0.56
2:AA:2320:A:H2	2:AA:2333:A:C4	2.23	0.56
2:AA:2320:A:N1	16:AQ:13:ARG:CD	2.68	0.56
2:AA:2371:G:O3'	30:A6:47:HIS:CE1	2.58	0.56
2:AA:240:G:N1	2:AA:241:A:N6	2.52	0.56
2:AA:2447:G:C6	2:AA:2501:C:O2	2.58	0.56
2:AA:242:G:H2'	2:AA:254:G:C6	2.39	0.56
2:AA:2660:A:O2'	2:AA:2661:G:H5'	2.05	0.56
2:AA:2684:U:H5'	13:AN:76:TYR:CE1	2.40	0.56
2:AA:2740:A:C6	2:AA:2741:A:C6	2.93	0.56
2:AA:306:U:C5	2:AA:307:G:N9	2.73	0.56
2:AA:343:C:HO2'	2:AA:344:G:H5'	1.69	0.56
2:AA:284:U:H3	2:AA:357:A:N6	2.02	0.56
2:AA:48:G:C2	2:AA:178:G:N1	2.73	0.56
2:AA:582:G:H8	2:AA:582:G:O5'	1.87	0.56
2:AA:635:C:H2'	2:AA:636:G:O4'	2.05	0.56
2:AA:673:C:OP1	6:AF:81:PRO:CD	2.53	0.56
2:AA:678:C:C4	2:AA:679:C:C5	2.93	0.56
2:AA:714:U:H6	2:AA:714:U:O5'	1.88	0.56
2:AA:743:G:C2	2:AA:755:C:C2	2.92	0.56
2:AA:783:A:O2'	2:AA:784:A:P	2.63	0.56
2:AA:821:A:H2'	2:AA:946:G:H5'	1.85	0.56
2:AA:953:A:N6	2:AA:965:C:N4	2.53	0.56
2:AA:973:A:C6	26:A2:81:ARG:HG3	2.39	0.56
1:AB:74:U:C2'	1:AB:75:G:H8	2.18	0.56
1:AB:8:U:C2	1:AB:9:G:N7	2.73	0.56
2:AA:1805:U:H5''	4:AD:235:PRO:HB3	1.87	0.56
4:AD:77:VAL:N	4:AD:113:MET:HA	2.20	0.56
2:AA:1501:C:O4'	4:AD:98:GLY:HA2	2.04	0.56
5:AE:199:ALA:HA	5:AE:314:ALA:CA	2.34	0.56
5:AE:299:SER:O	5:AE:301:PRO:N	2.38	0.56
6:AF:115:LEU:HD13	6:AF:118:THR:HG21	1.85	0.56
6:AF:219:ASN:O	6:AF:220:THR:C	2.42	0.56
7:AG:23:VAL:HG12	7:AG:130:VAL:HG12	1.87	0.56
7:AG:97:GLN:OE1	7:AG:106:PHE:CE2	2.58	0.56
9:AI:57:THR:HB	9:AJ:107:SER:CB	2.35	0.56
9:AJ:57:THR:O	9:AJ:58:GLU:HG3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:107:GLU:HA	11:AL:110:LYS:CD	2.35	0.56
11:AL:72:THR:HB	11:AL:112:LYS:HG3	1.87	0.56
2:AA:1058:G:H21	11:AL:117:ASN:HD21	1.51	0.56
2:AA:1020:A:C4'	12:AM:49:ARG:CZ	2.83	0.56
12:AM:63:ILE:HB	12:AM:71:TYR:CZ	2.40	0.56
13:AN:114:ILE:HG22	13:AN:115:ILE:N	2.20	0.56
2:AA:954:G:P	15:AP:10:ILE:HG22	2.45	0.56
15:AP:63:ALA:O	15:AP:65:ARG:N	2.38	0.56
18:AS:70:TYR:CD2	18:AS:71:VAL:O	2.58	0.56
19:AT:23:LYS:O	19:AT:68:LEU:HD21	2.05	0.56
19:AT:39:ASP:O	19:AT:40:ALA:C	2.41	0.56
20:AU:105:ASP:HB2	20:AU:108:ARG:CG	2.34	0.56
23:AX:17:LYS:O	23:AX:20:LYS:HB2	2.05	0.56
2:AA:851:U:O4'	23:AX:46:ASN:OD1	2.23	0.56
34:BA:1200:C:O2	34:BA:1200:C:H2'	2.05	0.56
34:BA:1291:G:H2'	34:BA:1292:U:H6	1.68	0.56
34:BA:1425:U:C2	34:BA:1426:C:C5	2.93	0.56
34:BA:795:C:H4'	34:BA:1506:U:C2	2.39	0.56
34:BA:1511:G:N7	34:BA:1512:U:C5	2.73	0.56
34:BA:226:G:C2	34:BA:227:G:C4	2.93	0.56
34:BA:228:A:C2'	34:BA:229:U:H5'	2.34	0.56
34:BA:409:G:C4	34:BA:410:G:C8	2.93	0.56
34:BA:451:A:H1'	34:BA:452:A:C5	2.40	0.56
34:BA:451:A:H1'	34:BA:452:A:C8	2.40	0.56
34:BA:647:C:O2'	34:BA:648:A:H5'	2.04	0.56
34:BA:676:A:O2'	34:BA:677:U:H5'	2.05	0.56
34:BA:715:A:H2'	34:BA:716:A:O4'	2.03	0.56
34:BA:774:G:C6	34:BA:775:G:C5	2.92	0.56
34:BA:886:G:N1	34:BA:912:C:C2	2.73	0.56
34:BA:944:G:H3'	34:BA:945:G:C5'	2.35	0.56
34:BA:948:C:H2'	34:BA:949:A:O5'	2.05	0.56
34:BA:955:U:H2'	34:BA:956:U:C6	2.39	0.56
35:BB:19:G:H3'	35:BB:20:G:N7	2.19	0.56
37:BE:152:PHE:C	37:BE:152:PHE:CD1	2.78	0.56
37:BE:160:ASP:O	37:BE:161:ALA:HB2	2.05	0.56
37:BE:167:PRO:HG3	37:BE:192:SER:CB	2.35	0.56
37:BE:55:PHE:O	37:BE:58:ILE:CB	2.50	0.56
38:BF:7:PRO:O	38:BF:11:ARG:HB2	2.05	0.56
39:BG:99:SER:HB3	39:BG:139:ARG:HG3	1.87	0.56
39:BG:155:LEU:N	39:BG:158:ILE:HG13	2.16	0.56
39:BG:30:LYS:C	39:BG:32:ALA:H	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BG:52:SER:O	39:BG:55:ALA:N	2.38	0.56
40:BH:80:ILE:HD12	40:BH:91:LEU:O	2.05	0.56
41:BI:39:LYS:HD3	41:BI:64:GLN:HE22	1.67	0.56
41:BI:50:TYR:O	41:BI:51:PRO:C	2.41	0.56
43:BK:113:SER:CA	43:BK:117:GLY:O	2.42	0.56
43:BK:17:THR:HB	43:BK:18:ARG:CZ	2.35	0.56
43:BK:28:ALA:HB2	43:BK:57:PRO:O	2.04	0.56
44:BL:10:ARG:HA	44:BL:104:ARG:CG	2.35	0.56
44:BL:12:GLU:N	44:BL:104:ARG:HH22	1.98	0.56
44:BL:28:VAL:O	44:BL:30:GLY:N	2.38	0.56
44:BL:47:LEU:HD13	44:BL:50:LEU:HB3	1.86	0.56
45:BM:49:VAL:O	45:BM:60:ARG:CD	2.53	0.56
45:BM:63:PHE:CE2	49:BQ:48:ALA:HB1	2.40	0.56
47:BO:35:GLY:O	47:BO:82:VAL:CG1	2.53	0.56
38:BF:33:LEU:CD1	49:BQ:53:LEU:HA	2.35	0.56
50:BR:3:ILE:HG23	50:BR:38:ARG:HE	1.70	0.56
51:BS:18:ARG:HA	51:BS:35:LYS:NZ	2.20	0.56
55:BW:50:GLU:HB2	55:BW:99:LEU:CB	2.35	0.56
45:BM:22:LYS:HZ3	45:BM:90:LEU:HB2	1.68	0.56
26:A2:57:GLN:CG	26:A2:58:ALA:N	2.56	0.56
27:A3:42:GLY:CA	27:A3:66:LYS:HA	2.34	0.56
28:A4:28:ARG:CB	28:A4:29:PRO:CD	2.82	0.56
29:A5:15:LYS:HZ3	29:A5:15:LYS:CB	2.14	0.56
18:AS:38:TYR:CB	29:A5:41:LEU:HD21	2.21	0.56
30:A6:19:GLY:CA	30:A6:42:PRO:HB3	2.34	0.56
32:A8:4:MET:HA	32:A8:5:LYS:HZ1	1.68	0.56
2:AA:1012:U:C3'	2:AA:1012:U:H6	2.13	0.56
2:AA:1014:U:C2'	2:AA:1015:G:O5'	2.53	0.56
2:AA:1092:C:N4	2:AA:1093:G:N3	2.53	0.56
2:AA:1195:G:H2'	2:AA:1226:G:N2	2.20	0.56
2:AA:1237:A:O2'	2:AA:1238:G:O5'	2.23	0.56
2:AA:1239:G:N3	2:AA:1240:U:C6	2.73	0.56
2:AA:1327:C:N4	2:AA:1647:G:C2	2.73	0.56
2:AA:1341:U:O2'	2:AA:1342:A:P	2.59	0.56
2:AA:1554:A:H2'	2:AA:1555:G:N7	2.20	0.56
2:AA:1566:A:N1	4:AD:212:HIS:CG	2.73	0.56
2:AA:1657:C:C5	2:AA:1657:C:OP2	2.58	0.56
2:AA:1687:G:N1	2:AA:1688:U:C4	2.73	0.56
2:AA:1759:A:O2'	2:AA:1760:A:O5'	2.22	0.56
2:AA:1789:A:H5''	4:AD:224:VAL:HG13	1.87	0.56
2:AA:1800:C:N3	2:AA:1817:G:N2	2.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1820:U:HO2'	2:AA:1821:A:P	2.28	0.56
2:AA:2190:G:C6	2:AA:2191:G:N7	2.73	0.56
2:AA:21:A:O2'	2:AA:22:C:H5'	2.05	0.56
2:AA:2436:G:O6	2:AA:2437:U:C4	2.58	0.56
2:AA:1952:A:H1'	2:AA:2560:C:HO2'	1.69	0.56
2:AA:2051:A:C4	2:AA:2614:A:N6	2.73	0.56
2:AA:270(W):G:H3'	2:AA:270(X):G:H8	1.70	0.56
2:AA:2714:G:C6	2:AA:2715:C:C5	2.93	0.56
2:AA:2758:A:C2'	2:AA:2759:G:O5'	2.52	0.56
2:AA:2720:U:O4	2:AA:2872:G:C2	2.58	0.56
2:AA:82:G:H5''	2:AA:296:C:OP1	2.04	0.56
2:AA:270(C):C:OP2	2:AA:365:C:O2'	2.23	0.56
2:AA:445:C:OP1	25:A1:2:PRO:CD	2.52	0.56
2:AA:502:A:O2'	2:AA:503:A:H5'	2.05	0.56
2:AA:503:A:C1'	2:AA:505:A:C8	2.87	0.56
2:AA:543:C:C2'	2:AA:544:C:O5'	2.52	0.56
2:AA:559:G:C2'	2:AA:560:C:O4'	2.54	0.56
2:AA:593:G:N2	2:AA:594:U:C2	2.72	0.56
2:AA:697:C:C2'	2:AA:698:C:C5'	2.82	0.56
2:AA:724:U:H2'	2:AA:725:G:O5'	2.05	0.56
2:AA:846:C:C2'	2:AA:847:U:OP2	2.53	0.56
1:AB:16:G:H2'	1:AB:17:C:H6	1.70	0.56
3:AC:211:SER:HA	3:AC:223:ARG:CZ	2.34	0.56
5:AE:193:PHE:CE2	5:AE:311:PHE:CD1	2.93	0.56
5:AE:226:HIS:CG	5:AE:229:GLN:CD	2.78	0.56
5:AE:237:ASN:O	5:AE:238:LEU:HD13	2.05	0.56
5:AE:72:VAL:HG13	5:AE:295:LEU:CD2	2.35	0.56
6:AF:165:ASP:O	6:AF:166:ILE:C	2.43	0.56
2:AA:442:G:O2'	6:AF:46:TYR:HE1	1.88	0.56
7:AG:11:HIS:CD2	7:AG:15:GLU:CD	2.78	0.56
2:AA:2311:A:HO2'	7:AG:54:ALA:H	1.51	0.56
8:AH:86:LEU:HD23	8:AH:148:ARG:NE	2.18	0.56
9:AI:73:VAL:HG22	9:AI:121:ALA:C	2.25	0.56
12:AM:75:PRO:HG2	12:AM:76:ASP:H	1.70	0.56
13:AN:101:PRO:HD3	17:AR:26:GLY:CA	2.35	0.56
13:AN:13:ASN:O	13:AN:14:SER:C	2.41	0.56
13:AN:2:ILE:HG22	13:AN:21:VAL:CG2	2.34	0.56
13:AN:21:VAL:CG2	13:AN:39:VAL:HG11	2.33	0.56
13:AN:41:ALA:C	13:AN:42:THR:CG2	2.74	0.56
13:AN:1:MET:CG	13:AN:67:ARG:HD2	2.35	0.56
13:AN:92:SER:HB3	13:AN:113:LYS:HZ1	1.67	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AO:94:ARG:NH1	14:AO:119:THR:C	2.58	0.56
15:AP:48:ASN:HD21	15:AP:122:PHE:H	1.53	0.56
15:AP:133:GLU:CG	15:AP:134:PHE:N	2.68	0.56
15:AP:89:PRO:O	15:AP:89:PRO:HG2	2.04	0.56
17:AR:6:CYS:SG	17:AR:31:PHE:HA	2.45	0.56
17:AR:33:SER:O	17:AR:36:CYS:SG	2.63	0.56
18:AS:45:TYR:HD2	18:AS:46:PHE:N	2.03	0.56
2:AA:23:G:N2	18:AS:77:ASP:CG	2.59	0.56
19:AT:56:ASN:HD21	19:AT:62:LYS:NZ	2.04	0.56
20:AU:19:ARG:N	20:AU:21:LYS:HZ3	2.02	0.56
20:AU:51:LEU:HD13	20:AU:95:ASN:HB3	1.87	0.56
21:AV:142:ASN:O	21:AV:145:ASP:HB2	2.04	0.56
21:AV:21:ALA:O	21:AV:32:PHE:CA	2.53	0.56
21:AV:1:MET:N	21:AV:54:ILE:CD1	2.68	0.56
34:BA:1261:A:C8	34:BA:1275:A:C6	2.94	0.56
34:BA:1327:C:O2'	34:BA:1328:C:H5'	2.04	0.56
34:BA:1498:U:O2'	34:BA:1499:A:C8	2.58	0.56
34:BA:1539:C:O2	34:BA:1540:U:C6	2.58	0.56
34:BA:237:C:O2'	34:BA:238:G:H5'	2.06	0.56
34:BA:266:G:O2'	34:BA:267:C:OP2	2.23	0.56
34:BA:275:G:C4	34:BA:276:G:C8	2.93	0.56
34:BA:522:C:C2'	34:BA:523:A:O5'	2.53	0.56
34:BA:12:U:C4'	34:BA:526:C:H4'	2.22	0.56
34:BA:579:G:C5	34:BA:580:U:C5	2.92	0.56
34:BA:658:G:H2'	34:BA:659:U:H5'	1.87	0.56
34:BA:755:G:N3	34:BA:755:G:C2'	2.67	0.56
34:BA:781:A:C6	34:BA:802:A:C2	2.93	0.56
7:AG:56:ARG:NH2	35:BC:19:G:H22	2.03	0.56
35:BC:21:A:C6	35:BC:46:G:N2	2.73	0.56
35:BC:34:G:H22	36:B1:62:G:H1	1.49	0.56
35:BC:37:G:C5	35:BC:38:A:N7	2.73	0.56
35:BC:51:G:N1	35:BC:63:C:N4	2.42	0.56
35:BC:68:U:C4	35:BC:69:U:O4	2.58	0.56
37:BE:113:HIS:O	37:BE:116:GLU:HG2	2.05	0.56
37:BE:147:LYS:HG3	37:BE:148:TYR:CD1	2.41	0.56
37:BE:115:LEU:HB2	37:BE:149:LEU:HD13	1.85	0.56
37:BE:91:PRO:HD2	37:BE:155:LEU:HD23	1.87	0.56
37:BE:78:GLN:CG	37:BE:94:ASN:HB3	2.35	0.56
38:BF:94:LEU:O	38:BF:95:THR:HG22	2.04	0.56
34:BA:404:U:OP2	39:BG:118:ARG:NH1	2.36	0.56
39:BG:120:LEU:HG	39:BG:125:HIS:CG	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BJ:111:ARG:CB	42:BJ:111:ARG:HH11	2.15	0.56
42:BJ:15:ASP:OD1	42:BJ:17:VAL:C	2.43	0.56
42:BJ:44:TYR:O	42:BJ:45:ASP:C	2.43	0.56
44:BL:69:GLY:O	44:BL:73:GLN:HG3	2.04	0.56
51:BS:39:TYR:CE1	51:BS:41:PRO:HG3	2.39	0.56
51:BS:51:VAL:CG1	51:BS:74:LEU:HD23	2.33	0.56
52:BT:101:ARG:NH1	52:BT:101:ARG:HB3	2.19	0.56
54:BV:31:ILE:O	54:BV:50:ALA:N	2.36	0.56
55:BW:51:GLU:CA	55:BW:54:LYS:HG3	2.35	0.56
55:BW:66:ALA:HB3	55:BW:72:LEU:HB2	1.86	0.56
55:BW:75:ASN:C	55:BW:78:ALA:HB3	2.25	0.56
56:BX:23:PRO:C	56:BX:25:LYS:H	2.09	0.56
10:AK:121:ILE:HG22	10:AK:122:ARG:N	2.21	0.56
35:BB:9:A:O2'	35:BB:45:G:C2'	2.54	0.56
2:AA:1510:A:C8	2:AA:1511:A:N1	2.73	0.56
4:AD:123:ILE:N	4:AD:123:ILE:CD1	2.67	0.56
24:A0:99:LYS:HB3	29:A5:44:HIS:CE1	2.40	0.56
28:A4:11:PRO:O	28:A4:12:CYS:SG	2.63	0.56
28:A4:57:ASP:C	28:A4:61:LYS:HG3	2.26	0.56
2:AA:126:A:OP2	31:A7:18:PHE:N	2.39	0.56
2:AA:1059:G:N3	11:AL:127:ILE:HG23	2.20	0.56
2:AA:12:U:C2	2:AA:2627:G:OP1	2.57	0.56
2:AA:1310:G:H2'	2:AA:1311:G:C4'	2.35	0.56
2:AA:1471:A:N6	2:AA:1519:G:H21	2.02	0.56
2:AA:1559:G:N2	2:AA:1560:G:OP1	2.38	0.56
2:AA:1497:U:O2	2:AA:1577:C:O5'	2.23	0.56
2:AA:1684:C:O2'	2:AA:1685:C:H5'	2.04	0.56
2:AA:182:A:H2'	2:AA:183:C:H6	1.69	0.56
2:AA:1977:A:C2	2:AA:1978:A:N9	2.74	0.56
2:AA:2061:G:C2'	2:AA:2062:A:H5''	2.33	0.56
2:AA:2119:A:N1	2:AA:2147:G:OP1	2.37	0.56
2:AA:2149:G:C2'	2:AA:2150:U:C5'	2.72	0.56
2:AA:2236:C:C4	2:AA:2237:G:C4	2.93	0.56
2:AA:225:A:N6	2:AA:419:C:C4'	2.62	0.56
2:AA:2264:C:C5	2:AA:2265:U:C5	2.93	0.56
2:AA:2444:G:C2	2:AA:2445:G:C4	2.93	0.56
2:AA:2670:A:H5''	2:AA:2670:A:H8	1.70	0.56
2:AA:2674:G:C6	2:AA:2675:A:N6	2.74	0.56
2:AA:2716:U:C2'	2:AA:2717:G:O5'	2.53	0.56
2:AA:2797:U:O3'	2:AA:2798:C:H4'	2.05	0.56
2:AA:297:C:C2	2:AA:298:G:C1'	2.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:370:G:N1	2:AA:424:G:N7	2.53	0.56
2:AA:468:G:C2'	2:AA:469:G:H5'	2.36	0.56
2:AA:556:G:O2'	2:AA:557:U:H5'	2.05	0.56
2:AA:628:G:H1	2:AA:635:C:H42	0.64	0.56
2:AA:665:C:H2'	2:AA:666:G:H8	1.71	0.56
2:AA:759:G:H2'	2:AA:760:G:C8	2.38	0.56
2:AA:80:G:O2'	2:AA:81:G:H5'	2.04	0.56
2:AA:947:G:H8	2:AA:947:G:O5'	1.88	0.56
2:AA:973:A:C6	26:A2:80:TYR:CA	2.88	0.56
1:AB:103:U:C3'	1:AB:103:U:H6	2.14	0.56
1:AB:102:G:N2	1:AB:103:U:N3	2.52	0.56
3:AC:59:ARG:CG	3:AC:139:ASN:HD21	2.18	0.56
3:AC:10:LEU:CG	3:AC:220:PRO:HG2	2.32	0.56
4:AD:141:HIS:NE2	4:AD:193:GLU:O	2.39	0.56
4:AD:148:GLY:O	4:AD:149:ARG:CZ	2.53	0.56
4:AD:131:LEU:HD13	4:AD:171:VAL:HG21	1.86	0.56
4:AD:185:GLY:C	4:AD:187:CYS:N	2.56	0.56
5:AE:101:THR:O	5:AE:102:ASP:C	2.43	0.56
6:AF:239:ALA:O	6:AF:242:GLU:CG	2.53	0.56
6:AF:91:PRO:CB	6:AF:92:PRO:CD	2.83	0.56
8:AH:102:LEU:CB	8:AH:104:LEU:HD11	2.35	0.56
8:AH:108:TYR:N	8:AH:108:TYR:CD2	2.71	0.56
8:AH:147:ILE:O	8:AH:161:ILE:CD1	2.54	0.56
9:AJ:74:ILE:HG12	9:AJ:92:VAL:HG11	1.86	0.56
9:AI:1:MET:CG	9:AJ:86:LYS:HB2	2.35	0.56
10:AK:12:LYS:HZ2	10:AK:14:LYS:CE	2.18	0.56
10:AK:3:VAL:CG2	10:AK:19:LYS:O	2.53	0.56
13:AN:103:ALA:CA	13:AN:122:ILE:O	2.48	0.56
14:AO:55:GLN:HE21	14:AO:56:LYS:CB	2.18	0.56
14:AO:65:ASP:HA	14:AO:108:VAL:CG1	2.24	0.56
15:AP:123:ILE:C	15:AP:136:TRP:HE1	2.09	0.56
2:AA:873:G:C3'	15:AP:32:LYS:HG2	2.34	0.56
15:AP:47:GLU:OE1	15:AP:151:SER:CA	2.47	0.56
7:AG:146:LYS:CD	16:AQ:15:GLU:OE2	2.53	0.56
16:AQ:37:ARG:O	16:AQ:43:VAL:HG13	2.05	0.56
17:AR:45:GLU:O	17:AR:48:ASN:OD1	2.22	0.56
18:AS:4:LYS:CG	18:AS:106:ILE:HA	2.16	0.56
18:AS:12:ILE:HG22	18:AS:17:VAL:CG2	2.35	0.56
20:AU:60:GLY:C	20:AU:61:GLU:OE1	2.43	0.56
20:AU:58:GLU:HG2	20:AU:76:ASP:OD2	2.05	0.56
21:AV:72:ASP:OD2	21:AV:72:ASP:N	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AW:43:PRO:O	22:AW:44:GLY:C	2.44	0.56
34:BA:1122:U:H2'	34:BA:1123:A:O4'	2.05	0.56
34:BA:1175:G:N1	34:BA:1176:A:C5	2.74	0.56
34:BA:1287:A:C2'	34:BA:1288:A:C8	2.77	0.56
34:BA:1291:G:O2'	34:BA:1292:U:O5'	2.18	0.56
34:BA:1537:U:H2'	34:BA:1538:C:C1'	2.35	0.56
34:BA:314:C:H5''	34:BA:315:A:OP2	2.05	0.56
34:BA:112:G:H21	34:BA:330:C:N4	2.03	0.56
34:BA:344:A:H4'	34:BA:345:C:OP2	2.05	0.56
34:BA:559:A:C8	34:BA:561:U:C5	2.93	0.56
34:BA:596:C:N3	34:BA:644:G:N2	2.52	0.56
34:BA:599:C:N3	34:BA:639:G:N2	2.40	0.56
34:BA:688:G:H1'	34:BA:704:A:N1	2.20	0.56
34:BA:701:C:C4'	34:BA:702:A:OP2	2.52	0.56
34:BA:706:A:C2	34:BA:707:C:N1	2.73	0.56
34:BA:736:C:H5'	41:BI:89:MET:HE1	1.86	0.56
34:BA:765:G:O6	34:BA:812:C:C6	2.58	0.56
34:BA:76:C:O2'	34:BA:77:G:H5'	2.06	0.56
34:BA:817:C:O2	34:BA:817:C:C2'	2.52	0.56
34:BA:926:G:C4	34:BA:1505:G:C2	2.92	0.56
34:BA:9:G:OP2	40:BH:122:GLU:N	2.39	0.56
35:BC:62:A:O2'	35:BC:63:C:C5'	2.52	0.56
37:BE:102:LEU:CB	37:BE:176:GLU:OE1	2.52	0.56
37:BE:9:GLU:CG	37:BE:217:ARG:HH22	2.17	0.56
37:BE:25:ASN:CG	37:BE:25:ASN:O	2.40	0.56
39:BG:38:TYR:HD1	39:BG:39:PRO:O	1.88	0.56
40:BH:144:THR:C	40:BH:146:ALA:N	2.55	0.56
41:BI:45:LEU:HD23	41:BI:59:TYR:CA	2.35	0.56
43:BK:9:MET:O	43:BK:13:ILE:CG1	2.53	0.56
44:BL:105:ASP:O	44:BL:107:ARG:N	2.28	0.56
45:BM:21:GLN:HG2	45:BM:25:GLU:OE2	2.06	0.56
46:BN:110:ASP:HB2	53:BU:88:LYS:CB	2.35	0.56
47:BO:40:VAL:HG21	47:BO:78:GLN:HA	1.87	0.56
50:BR:42:HIS:HE1	50:BR:46:HIS:CD2	2.23	0.56
54:BV:46:GLY:N	54:BV:62:ILE:HG23	2.06	0.56
55:BW:57:ARG:NH2	55:BW:100:ILE:O	2.38	0.56
55:BW:45:GLN:CG	55:BW:91:LEU:HD21	2.33	0.56
55:BW:72:LEU:HD23	55:BW:76:ALA:HB1	1.88	0.56
24:A0:52:ILE:CG2	24:A0:53:HIS:N	2.68	0.56
26:A2:59:GLU:OE1	26:A2:98:ILE:O	2.24	0.56
28:A4:36:TRP:N	28:A4:36:TRP:CD1	2.72	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:A8:29:LYS:O	32:A8:30:ARG:O	2.23	0.56
2:AA:1026:U:C2'	2:AA:1027:A:O5'	2.52	0.56
2:AA:1032:A:OP1	33:A9:8:LYS:CG	2.54	0.56
2:AA:1155:A:H2'	2:AA:1156:A:C5'	2.33	0.56
2:AA:1379:A:C4	2:AA:1379:A:C3'	2.87	0.56
2:AA:1398:C:H4'	19:AT:23:LYS:NZ	2.20	0.56
2:AA:1444:G:O3'	2:AA:444(A):A:C8	2.52	0.56
2:AA:1545:A:H2'	2:AA:1545:A:N3	2.20	0.56
2:AA:1657:C:H5	2:AA:1657:C:OP2	1.87	0.56
2:AA:1750:G:H2'	2:AA:1751:C:C6	2.40	0.56
2:AA:1754:C:H4'	17:AR:44:ARG:NH2	2.19	0.56
2:AA:1778:U:H2'	2:AA:1779:U:C5	2.40	0.56
2:AA:1785:A:H5''	2:AA:1785:A:C8	2.40	0.56
2:AA:1831:G:C6	2:AA:1832:C:C4	2.94	0.56
2:AA:1881:C:C2'	2:AA:1882:C:H5'	2.36	0.56
2:AA:1935:G:H2'	2:AA:1962:C:C4	2.39	0.56
2:AA:1940:U:O2	2:AA:1940:U:C2'	2.34	0.56
2:AA:2015:A:H3'	2:AA:2016:U:C5	2.39	0.56
2:AA:2052:G:C4	2:AA:2053:G:C8	2.94	0.56
2:AA:2069:G:N2	2:AA:2070:G:N9	2.54	0.56
2:AA:2083:G:O2'	2:AA:2084:C:C5'	2.52	0.56
2:AA:211:A:H2'	2:AA:212:G:O4'	2.04	0.56
2:AA:2227:A:C2	2:AA:2228:G:C5	2.93	0.56
2:AA:238:C:H2'	2:AA:238:C:O2	2.05	0.56
2:AA:244:A:C1'	2:AA:255:A:H62	2.19	0.56
2:AA:2452:C:C4	2:AA:2453:A:C6	2.93	0.56
2:AA:2507:C:N3	2:AA:2582:G:C2	2.74	0.56
2:AA:1130:U:H5''	2:AA:2515:C:O2'	2.05	0.56
2:AA:2659:G:C2'	2:AA:2661:G:OP2	2.53	0.56
2:AA:2679:A:OP1	5:AE:261:ARG:NH2	2.38	0.56
2:AA:270(X):G:N3	2:AA:270(Y):G:H4'	2.19	0.56
2:AA:2831:G:H1'	2:AA:2883:A:N3	2.21	0.56
2:AA:2810:A:H2	2:AA:2892:A:C2	2.23	0.56
2:AA:297:C:H2'	2:AA:298:G:C4'	2.34	0.56
2:AA:317:G:N2	2:AA:318:C:O2	2.38	0.56
2:AA:422:A:H2'	2:AA:423:A:O5'	2.04	0.56
2:AA:493:G:N3	2:AA:494:G:C8	2.74	0.56
2:AA:4:C:H2'	2:AA:5:A:H8	1.71	0.56
2:AA:669:G:N3	2:AA:801:G:N1	2.54	0.56
2:AA:673:C:C4'	6:AF:82:GLN:HE22	2.18	0.56
2:AA:715:G:N2	2:AA:716:A:C2	2.74	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:738:G:H2'	2:AA:739:G:O4'	2.05	0.56
2:AA:851:U:O2'	23:AX:46:ASN:N	2.39	0.56
2:AA:898:C:C3'	2:AA:899:A:H5''	2.24	0.56
2:AA:958:U:C2'	2:AA:959:A:OP2	2.53	0.56
1:AB:22:U:H6	1:AB:22:U:O5'	1.88	0.56
1:AB:63:G:H2'	1:AB:64:C:C6	2.39	0.56
3:AC:176:GLY:HA3	3:AC:185:LEU:CD2	2.21	0.56
5:AE:105:HIS:ND1	5:AE:108:LEU:CD1	2.69	0.56
6:AF:144:PHE:CE2	6:AF:156:LEU:CD1	2.87	0.56
6:AF:34:ALA:O	6:AF:37:ALA:HB3	2.05	0.56
2:AA:1257:C:O2'	6:AF:83:ALA:HB1	2.06	0.56
7:AG:102:GLY:O	7:AG:103:ASN:OD1	2.24	0.56
7:AG:45:THR:HG21	7:AG:73:VAL:HG11	1.88	0.56
8:AH:10:ILE:HG23	8:AH:14:VAL:CB	2.35	0.56
8:AH:43:THR:O	8:AH:49:ILE:HG22	2.05	0.56
9:AI:112:GLU:HA	9:AI:115:LYS:HD2	1.86	0.56
9:AJ:73:VAL:HG11	9:AJ:123:ALA:CB	2.36	0.56
10:AK:42:ALA:C	10:AK:43:ASN:HD22	2.08	0.56
11:AL:75:ALA:N	11:AL:112:LYS:NZ	2.54	0.56
12:AM:55:GLU:O	12:AM:56:LYS:C	2.43	0.56
13:AN:104:ARG:O	13:AN:108:ASP:OD2	2.22	0.56
13:AN:63:VAL:CG1	13:AN:106:LEU:HD11	2.35	0.56
13:AN:77:ILE:CD1	13:AN:77:ILE:C	2.73	0.56
15:AP:50:VAL:CG2	15:AP:147:VAL:HG22	2.35	0.56
16:AQ:31:LYS:CB	16:AQ:32:PRO:CD	2.84	0.56
19:AT:77:VAL:O	19:AT:78:ALA:C	2.43	0.56
19:AT:8:PRO:HD3	22:AW:33:VAL:HG22	1.88	0.56
20:AU:55:PHE:O	20:AU:58:GLU:HB2	2.04	0.56
34:BA:106:C:N3	34:BA:107:G:N7	2.53	0.56
34:BA:1195:C:O2	34:BA:1197:G:H1'	2.05	0.56
34:BA:138:G:O2'	34:BA:139:G:H5'	2.05	0.56
34:BA:1489:G:H2'	34:BA:1490:C:C5'	2.31	0.56
34:BA:1495:U:O2'	34:BA:1496:C:C5'	2.49	0.56
34:BA:1500:A:H2'	34:BA:1501:C:C5	2.40	0.56
34:BA:1530:G:N1	34:BA:1531:A:N1	2.53	0.56
34:BA:202:U:O3'	34:BA:203:U:C6	2.58	0.56
34:BA:571:U:OP1	34:BA:819:A:H2'	2.06	0.56
34:BA:672:U:O2	34:BA:673:G:C8	2.58	0.56
34:BA:792:A:C2	34:BA:794:A:C6	2.93	0.56
34:BA:889:A:OP1	34:BA:891:U:O2	2.23	0.56
35:BB:64:A:N6	35:BB:65:G:C6	2.72	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:67:A:C2	35:BB:68:U:C6	2.94	0.56
35:BB:6:U:C2	35:BB:68:U:N3	2.72	0.56
35:BC:1:G:C2	35:BC:2:C:C5	2.94	0.56
35:BC:56:C:N4	35:BC:57:G:N1	2.54	0.56
37:BE:201:ILE:CD1	37:BE:201:ILE:N	2.68	0.56
37:BE:236:TYR:HA	37:BE:240:GLN:HE21	1.69	0.56
37:BE:85:ALA:O	37:BE:89:GLY:N	2.37	0.56
37:BE:71:VAL:HG22	37:BE:93:VAL:HB	1.85	0.56
38:BF:52:LEU:O	38:BF:53:ALA:HB2	2.05	0.56
38:BF:59:ARG:HG2	38:BF:60:ALA:H	1.70	0.56
38:BF:83:ARG:HG3	38:BF:87:LEU:CD1	2.23	0.56
39:BG:98:GLU:HA	39:BG:103:ASN:HD21	1.68	0.56
39:BG:4:TYR:CZ	39:BG:5:ILE:O	2.59	0.56
39:BG:98:GLU:OE1	39:BG:103:ASN:ND2	2.32	0.56
40:BH:106:PRO:HB3	40:BH:120:THR:HG21	1.88	0.56
40:BH:9:LYS:HD3	40:BH:108:ALA:HA	1.86	0.56
40:BH:34:VAL:CG2	40:BH:62:ALA:HB1	2.35	0.56
41:BI:89:MET:CG	53:BU:76:LEU:HD11	2.36	0.56
42:BJ:29:LYS:NZ	42:BJ:102:ARG:HH21	2.01	0.56
42:BJ:122:HIS:HD2	42:BJ:122:HIS:H	1.52	0.56
43:BK:24:THR:HG22	43:BK:61:VAL:H	1.70	0.56
34:BA:591:U:P	43:BK:30:ARG:NH1	2.78	0.56
43:BK:40:ALA:C	43:BK:42:GLU:N	2.57	0.56
47:BO:88:GLY:CA	47:BO:99:HIS:HE1	2.19	0.56
48:BP:67:GLU:O	48:BP:70:LEU:HB3	2.06	0.56
38:BF:29:TYR:HE2	49:BQ:54:PRO:HG2	1.66	0.56
50:BR:6:GLU:OE2	50:BR:6:GLU:N	2.38	0.56
52:BT:29:HIS:CG	52:BT:32:TYR:HB2	2.40	0.56
52:BT:96:GLN:OE1	52:BT:97:SER:N	2.39	0.56
52:BT:97:SER:O	52:BT:98:LEU:CG	2.52	0.56
55:BW:57:ARG:C	55:BW:59:ALA:N	2.57	0.56
23:AX:1:MET:N	23:AX:2:PRO:HD3	2.20	0.56
37:BE:28:PHE:CD1	37:BE:31:TYR:CB	2.89	0.56
11:AL:36:MET:HE3	11:AL:40:LYS:HD2	1.86	0.56
14:AO:101:ASP:O	14:AO:102:ASP:CG	2.44	0.56
27:A3:86:THR:O	27:A3:87:GLU:C	2.43	0.56
9:AJ:31:VAL:HG12	9:AJ:31:VAL:O	2.05	0.56
24:A0:105:ARG:CZ	24:A0:105:ARG:H	2.17	0.56
24:A0:104:ARG:HA	24:A0:105:ARG:NH2	2.19	0.56
24:A0:44:LEU:HD22	24:A0:48:VAL:HG23	1.87	0.56
2:AA:446:G:C8	25:A1:3:ARG:NH2	2.72	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:A2:2:PHE:O	26:A2:44:GLN:OE1	2.24	0.56
26:A2:79:GLN:O	26:A2:81:ARG:N	2.37	0.56
2:AA:2624:G:C1'	29:A5:22:HIS:HE2	1.95	0.56
31:A7:42:LEU:O	31:A7:43:THR:O	2.23	0.56
32:A8:10:ALA:HA	32:A8:60:LEU:HD12	1.86	0.56
2:AA:1022:G:C4	2:AA:1139:G:N1	2.73	0.56
2:AA:1140:C:O5'	12:AM:47:THR:HG23	2.05	0.56
2:AA:1239:G:C2'	2:AA:1240:U:C6	2.86	0.56
2:AA:1429:G:H2'	2:AA:1430:C:O4'	2.05	0.56
2:AA:1479:G:C2'	2:AA:1480:G:H8	2.16	0.56
2:AA:1534:G:N2	2:AA:1536:A:H1'	2.20	0.56
2:AA:1625:C:C2'	2:AA:1626:G:C4'	2.74	0.56
2:AA:1683:C:O2	2:AA:1683:C:H2'	2.04	0.56
2:AA:1690:A:H62	2:AA:1697:G:N2	2.01	0.56
2:AA:1699:G:N7	2:AA:1763:G:N3	2.53	0.56
2:AA:1773:A:H3'	2:AA:1773:A:H8	1.71	0.56
2:AA:1928:A:H3'	2:AA:1928:A:C8	2.41	0.56
2:AA:1936:A:C5'	2:AA:1937:A:N3	2.66	0.56
2:AA:1937:A:N7	2:AA:1939:U:N3	2.53	0.56
2:AA:1996:C:C2	2:AA:1997:G:O4'	2.57	0.56
2:AA:2124:G:O6	3:AC:129:ARG:NH1	2.38	0.56
2:AA:2142:C:N3	2:AA:2143:C:C5	2.73	0.56
2:AA:2299:G:H1	2:AA:2317:C:H42	1.53	0.56
2:AA:2333:A:C1'	2:AA:2335:A:C2	2.88	0.56
2:AA:2354:G:H4'	27:A3:31:VAL:HG11	1.87	0.56
2:AA:270(O):U:H5''	2:AA:270(P):C:H5	1.58	0.56
2:AA:470:A:OP1	2:AA:470:A:H4'	2.06	0.56
2:AA:531:C:C4	2:AA:532:A:O2'	2.58	0.56
2:AA:592:G:N1	2:AA:593:G:C5	2.74	0.56
2:AA:627:A:N1	2:AA:637:A:H1'	2.18	0.56
2:AA:645:C:H5'	2:AA:646:A:OP1	2.06	0.56
2:AA:673:C:C4'	6:AF:82:GLN:NE2	2.68	0.56
2:AA:816:C:C4	2:AA:1192:G:N1	2.73	0.56
2:AA:832:G:HO2'	2:AA:833:U:C5'	2.19	0.56
2:AA:878:A:N3	2:AA:879:G:H5''	2.21	0.56
1:AB:88:C:C5	1:AB:89:G:O4'	2.58	0.56
3:AC:197:GLU:HA	3:AC:208:PHE:HE2	1.70	0.56
4:AD:141:HIS:HA	4:AD:143:ILE:HG13	1.88	0.56
2:AA:1805:U:H5''	4:AD:235:PRO:CG	2.35	0.56
2:AA:2821:A:OP1	5:AE:207:GLY:N	2.38	0.56
5:AE:211:GLN:NE2	5:AE:215:LYS:HG3	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:44:TYR:HE1	5:AE:308:VAL:HG13	1.66	0.56
6:AF:225:PRO:HB2	6:AF:231:ARG:NE	2.16	0.56
6:AF:81:PRO:HA	6:AF:87:ARG:CG	2.34	0.56
7:AG:28:GLY:O	7:AG:69:ILE:CD1	2.54	0.56
7:AG:49:PRO:HB2	7:AG:72:LYS:C	2.25	0.56
2:AA:1083:U:O3'	9:AI:37:VAL:CA	2.52	0.56
9:AJ:80:ILE:HG22	9:AJ:81:THR:N	2.20	0.56
11:AL:56:VAL:CG2	11:AL:70:ILE:HG12	2.35	0.56
12:AM:43:ARG:HG2	12:AM:43:ARG:O	2.05	0.56
12:AM:4:ALA:O	12:AM:5:GLU:O	2.23	0.56
13:AN:1:MET:H3	13:AN:32:TYR:HB3	1.67	0.56
13:AN:7:ARG:CB	13:AN:44:LYS:HZ2	2.18	0.56
16:AQ:35:VAL:CG2	16:AQ:103:ASP:OD1	2.53	0.56
16:AQ:18:THR:OG1	16:AQ:20:TYR:HD1	1.86	0.56
20:AU:19:ARG:HA	20:AU:21:LYS:NZ	2.21	0.56
20:AU:19:ARG:O	20:AU:22:GLN:N	2.38	0.56
15:AP:73:GLN:HB3	21:AV:175:ARG:HD2	1.86	0.56
21:AV:3:LEU:CD2	21:AV:38:ALA:HB3	2.32	0.56
34:BA:110:C:O2	34:BA:111:G:C1'	2.53	0.56
34:BA:1138:G:H3'	34:BA:1138:G:N3	2.20	0.56
34:BA:1134:G:N1	34:BA:1140:C:N4	2.09	0.56
34:BA:1390:U:N3	34:BA:1391:U:C4	2.73	0.56
34:BA:236:G:C4	34:BA:237:C:C5	2.93	0.56
34:BA:459:G:C2	34:BA:463:A:N6	2.73	0.56
34:BA:802:A:H2'	34:BA:803:G:O4'	2.05	0.56
35:BB:59:U:C2	35:BB:60:C:N3	2.74	0.56
37:BE:102:LEU:O	37:BE:180:LEU:CD1	2.53	0.56
37:BE:167:PRO:HG2	37:BE:168:THR:N	2.17	0.56
37:BE:193:ASP:O	37:BE:194:PRO:O	2.22	0.56
37:BE:234:PRO:O	37:BE:238:LEU:CD2	2.53	0.56
37:BE:82:ARG:HB2	37:BE:94:ASN:HD21	1.71	0.56
38:BF:18:TRP:CE3	38:BF:18:TRP:N	2.64	0.56
39:BG:148:VAL:CG1	39:BG:152:SER:HB3	2.35	0.56
40:BH:149:GLU:HA	40:BH:152:ARG:CB	2.33	0.56
42:BJ:42:ILE:HG22	42:BJ:120:ILE:HD12	1.88	0.56
42:BJ:126:ASP:HA	42:BJ:129:GLU:HG3	1.86	0.56
42:BJ:50:ILE:CD1	42:BJ:58:PRO:CB	2.70	0.56
43:BK:100:ILE:CB	43:BK:125:ARG:NH2	2.68	0.56
43:BK:40:ALA:HB2	43:BK:45:ILE:HG23	1.86	0.56
43:BK:4:ASP:HB3	43:BK:6:ILE:HG23	1.88	0.56
43:BK:89:PRO:CB	43:BK:92:ARG:HH21	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BL:111:ARG:O	44:BL:113:LYS:NZ	2.38	0.56
44:BL:5:TYR:CD2	44:BL:6:GLY:N	2.73	0.56
46:BN:46:GLY:N	46:BN:55:LYS:CD	2.69	0.56
47:BO:119:LYS:C	47:BO:121:GLY:N	2.53	0.56
51:BS:68:ASP:O	51:BS:69:THR:C	2.44	0.56
52:BT:60:ILE:HG12	52:BT:61:GLU:N	2.19	0.56
53:BU:39:VAL:O	53:BU:43:PHE:CE1	2.59	0.56
34:BA:1320:C:O2	54:BV:73:GLU:HA	2.05	0.56
55:BW:33:ILE:CG2	55:BW:63:ILE:HG13	2.35	0.56
35:BB:29:A:C5	35:BB:42:G:N1	2.74	0.56
10:AK:98:ILE:CG2	10:AK:102:LEU:HD23	2.35	0.56
10:AK:145:VAL:HG12	10:AK:146:THR:N	2.20	0.56
23:AX:57:GLU:OE1	23:AX:59:VAL:CG2	2.54	0.56
10:AK:63:ALA:O	10:AK:64:ASN:C	2.44	0.56
25:A1:111:ASP:CA	25:A1:114:ARG:HG3	2.36	0.56
2:AA:445:C:H3'	25:A1:3:ARG:HE	1.70	0.56
26:A2:33:VAL:CG1	26:A2:34:GLU:N	2.68	0.56
28:A4:5:LEU:O	28:A4:7:PRO:CD	2.54	0.56
32:A8:50:LEU:CD2	32:A8:51:ALA:N	2.55	0.56
2:AA:250:G:H3'	32:A8:8:LYS:NZ	2.20	0.56
2:AA:2742:C:OP1	33:A9:35:ARG:NE	2.38	0.56
2:AA:1000:A:N1	2:AA:1155:A:C4	2.73	0.56
2:AA:1021:A:C8	2:AA:1021:A:H3'	2.41	0.56
2:AA:1035:U:C2	2:AA:1036:G:C8	2.93	0.56
2:AA:1082:U:H3'	2:AA:1083:U:C6	2.40	0.56
2:AA:1104:C:H1'	9:AI:29:PHE:CE2	2.40	0.56
2:AA:1105:U:H1'	9:AI:27:ASP:O	2.04	0.56
2:AA:1156:A:C5'	2:AA:1157:G:N7	2.57	0.56
2:AA:1209:G:O3'	2:AA:1212:G:H5'	2.04	0.56
2:AA:124:G:H2'	31:A7:19:ARG:NH1	2.20	0.56
2:AA:134:C:C2	2:AA:146:G:C2	2.94	0.56
2:AA:1567:A:O2'	2:AA:1568:G:C6	2.58	0.56
2:AA:1426:G:N2	2:AA:1571:A:C2	2.73	0.56
2:AA:1783:A:O5'	2:AA:1784:A:OP2	2.24	0.56
2:AA:1789:A:H5''	4:AD:224:VAL:CG1	2.35	0.56
2:AA:1809:A:HO2'	2:AA:1810:A:P	2.25	0.56
2:AA:1934:C:H5'	2:AA:1974:C:O2'	2.05	0.56
2:AA:1768:U:C2	2:AA:1985:G:N1	2.73	0.56
2:AA:1661:G:C6	2:AA:2000:G:C6	2.94	0.56
2:AA:2047:U:O2'	2:AA:2048:G:O5'	2.23	0.56
2:AA:209:C:C2'	2:AA:210:C:C5'	2.82	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2176:A:H2'	2:AA:2177:C:C6	2.37	0.56
2:AA:2452:C:N4	2:AA:2453:A:C6	2.73	0.56
2:AA:2483:C:N3	2:AA:2484:G:C8	2.73	0.56
2:AA:2520:C:N4	2:AA:2567:G:N7	2.54	0.56
2:AA:246:C:N4	2:AA:252:G:C6	2.72	0.56
2:AA:2565:A:O3'	2:AA:2566:A:C4'	2.54	0.56
2:AA:2603:G:O6	2:AA:2604:U:O4	2.24	0.56
2:AA:2606:C:H6	2:AA:2606:C:C5'	2.17	0.56
2:AA:2776:A:C6	2:AA:2782:G:H1'	2.41	0.56
2:AA:2792:G:H1	2:AA:2803:C:N4	2.03	0.56
2:AA:2839:G:H2'	2:AA:2840:C:C6	2.41	0.56
2:AA:304:G:N2	2:AA:305:U:H1'	2.20	0.56
2:AA:401:A:C4	2:AA:402:A:C8	2.93	0.56
2:AA:491:G:C2	2:AA:492:A:C4	2.94	0.56
2:AA:701:G:C2	2:AA:732:C:N3	2.74	0.56
2:AA:785:G:N2	2:AA:786:C:C2	2.73	0.56
2:AA:786:C:C2'	2:AA:787:U:H5'	2.35	0.56
2:AA:83:G:O2'	2:AA:84:A:OP2	2.24	0.56
2:AA:866:A:N6	2:AA:914:C:C4	2.74	0.56
2:AA:819:A:C2	2:AA:943:U:O2	2.59	0.56
2:AA:971:C:O2'	2:AA:972:G:O5'	2.23	0.56
1:AB:73:A:N7	1:AB:104:A:C6	2.74	0.56
3:AC:103:ILE:HD13	3:AC:110:PHE:CE2	2.39	0.56
3:AC:133:PRO:CG	3:AC:134:ARG:N	2.68	0.56
3:AC:21:THR:N	3:AC:24:GLU:OE1	2.35	0.56
3:AC:50:ASP:OD1	3:AC:52:ARG:N	2.39	0.56
4:AD:118:GLY:O	4:AD:129:LEU:CD1	2.52	0.56
4:AD:140:VAL:CG1	4:AD:189:ALA:HB1	2.35	0.56
5:AE:212:GLY:C	5:AE:216:ARG:HG3	2.26	0.56
2:AA:2619:C:C4'	5:AE:247:ARG:O	2.52	0.56
2:AA:2730:C:O3'	5:AE:265:ASN:CG	2.44	0.56
5:AE:39:GLN:CD	5:AE:174:LEU:CD1	2.64	0.56
2:AA:2784:C:C5'	5:AE:95:PRO:O	2.53	0.56
6:AF:243:VAL:O	6:AF:246:ARG:N	2.39	0.56
8:AH:75:VAL:O	8:AH:76:GLU:C	2.43	0.56
8:AH:98:GLN:CB	8:AH:103:VAL:CG2	2.78	0.56
9:AI:69:ASN:CB	9:AI:122:GLY:HA3	2.30	0.56
9:AI:30:GLY:O	9:AI:34:ALA:HB3	2.04	0.56
9:AI:81:THR:HG22	9:AI:103:LYS:HG2	1.88	0.56
9:AJ:81:THR:HG21	9:AJ:102:ILE:O	2.06	0.56
11:AL:132:ALA:HA	11:AL:137:ILE:HD12	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1078:U:OP1	11:AL:93:LYS:HE3	2.06	0.56
2:AA:1020:A:O2'	12:AM:49:ARG:CZ	2.53	0.56
12:AM:84:ARG:CD	12:AM:98:PHE:CD2	2.77	0.56
13:AN:11:ALA:HB1	13:AN:99:PHE:CB	2.33	0.56
13:AN:120:GLU:HG2	13:AN:121:VAL:N	2.21	0.56
14:AO:124:ASP:CB	14:AO:130:ARG:NH2	2.65	0.56
14:AO:62:ALA:O	14:AO:107:LYS:CG	2.53	0.56
16:AQ:22:GLN:O	16:AQ:25:ARG:CB	2.37	0.56
16:AQ:21:HIS:O	16:AQ:23:ARG:N	2.37	0.56
20:AU:71:VAL:HA	20:AU:93:THR:CG2	2.35	0.56
21:AV:1:MET:H1	21:AV:54:ILE:HD12	1.70	0.56
21:AV:19:ILE:CG1	21:AV:79:ILE:HG23	2.33	0.56
21:AV:99:HIS:O	21:AV:137:ASP:OD1	2.23	0.56
2:AA:851:U:O2'	23:AX:45:GLY:CA	2.50	0.56
23:AX:53:LEU:C	23:AX:54:VAL:HG13	2.26	0.56
23:AX:23:LEU:HD22	23:AX:53:LEU:HD11	1.87	0.56
34:BA:109:A:C5'	34:BA:110:C:OP2	2.53	0.56
34:BA:1291:G:P	42:BJ:37:ASN:HD21	2.28	0.56
34:BA:1324:A:C6	34:BA:1325:C:C5	2.93	0.56
34:BA:931:C:N3	34:BA:1387:G:C6	2.73	0.56
34:BA:1484:C:C2	34:BA:1485:U:C6	2.94	0.56
34:BA:1515:C:O2	34:BA:1516:G:C8	2.59	0.56
34:BA:238:G:C6	34:BA:239:U:C4	2.93	0.56
34:BA:280:C:H1'	52:BT:38:ARG:CZ	2.36	0.56
34:BA:286:G:C4	34:BA:287:U:C6	2.94	0.56
34:BA:407:G:O2'	39:BG:116:GLN:CG	2.53	0.56
34:BA:454:C:H3'	34:BA:455:C:H6	1.71	0.56
34:BA:520:A:C8	34:BA:521:G:O4'	2.58	0.56
34:BA:418:C:H1'	34:BA:540:G:O2'	2.04	0.56
34:BA:616:G:O2'	34:BA:617:G:H5'	2.04	0.56
34:BA:60:A:O2'	34:BA:61:G:OP2	2.22	0.56
34:BA:753:A:H4'	34:BA:754:C:H5''	1.88	0.56
34:BA:795:C:H5''	34:BA:796:C:OP2	2.04	0.56
34:BA:874:G:C2	34:BA:875:C:C6	2.94	0.56
34:BA:936:C:H2'	34:BA:937:A:C5'	2.35	0.56
35:BB:67:A:C4	35:BB:68:U:C5	2.94	0.56
35:BC:9:A:C2	35:BC:46:G:C8	2.92	0.56
35:BC:54:U:H2'	35:BC:55:U:C5'	2.34	0.56
38:BF:67:THR:HG21	38:BF:104:GLN:OE1	2.06	0.56
38:BF:121:ALA:O	38:BF:124:ILE:N	2.38	0.56
39:BG:123:HIS:HB3	39:BG:125:HIS:CE1	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BG:150:GLU:CD	39:BG:150:GLU:N	2.57	0.56
40:BH:127:ASN:O	40:BH:128:PRO:C	2.42	0.56
41:BI:73:ASN:O	41:BI:76:ALA:HB3	2.05	0.56
42:BJ:13:GLN:O	42:BJ:14:PRO:O	2.23	0.56
43:BK:13:ILE:HG22	43:BK:14:ARG:N	2.20	0.56
44:BL:78:LYS:HE3	44:BL:101:PHE:CE2	2.41	0.56
45:BM:47:PHE:CD1	45:BM:47:PHE:N	2.73	0.56
45:BM:51:ARG:NH2	45:BM:61:GLU:CD	2.59	0.56
46:BN:84:VAL:HG22	46:BN:109:VAL:O	2.05	0.56
34:BA:1226:C:O5'	48:BP:103:THR:HB	2.04	0.56
34:BA:952:U:C4	48:BP:104:ARG:NH1	2.74	0.56
50:BR:63:ARG:O	50:BR:66:LEU:HB2	2.04	0.56
52:BT:27:PHE:C	52:BT:35:VAL:HG13	2.26	0.56
52:BT:17:LYS:HZ3	52:BT:47:PRO:HA	1.69	0.56
52:BT:75:ARG:HH12	52:BT:77:VAL:CA	2.17	0.56
53:BU:53:ARG:C	53:BU:55:ARG:N	2.53	0.56
55:BW:40:ALA:HA	55:BW:55:ILE:CD1	2.34	0.56
23:AX:1:MET:O	23:AX:2:PRO:C	2.44	0.56
9:AJ:5:GLU:HA	9:AJ:8:GLU:OE2	2.06	0.56
18:AS:3:ALA:HB2	18:AS:62:HIS:CG	2.39	0.56
24:A0:58:GLY:O	24:A0:59:ASP:CB	2.54	0.56
24:A0:83:ILE:HA	24:A0:86:ARG:CG	2.28	0.56
25:A1:99:ALA:HB2	25:A1:106:PHE:CD1	2.41	0.56
25:A1:114:ARG:O	25:A1:117:ARG:CD	2.54	0.56
26:A2:20:ILE:O	26:A2:21:ARG:CZ	2.54	0.56
26:A2:62:GLU:HB2	26:A2:96:LEU:CG	2.35	0.56
27:A3:28:GLY:N	27:A3:60:PHE:CB	2.68	0.56
27:A3:67:VAL:HG11	27:A3:74:LYS:CA	2.26	0.56
30:A6:19:GLY:C	30:A6:42:PRO:CB	2.74	0.56
30:A6:54:LYS:HG3	30:A6:54:LYS:O	2.06	0.56
31:A7:24:THR:HG23	31:A7:27:GLY:H	1.71	0.56
32:A8:16:ILE:CD1	32:A8:64:ARG:OXT	2.46	0.56
2:AA:1029:A:C2'	2:AA:1030:G:C5'	2.83	0.56
2:AA:1068:G:N1	2:AA:1073:A:H2	2.02	0.56
2:AA:1078:U:C2	2:AA:1088:A:H1'	2.40	0.56
2:AA:1152:C:H2'	2:AA:1153:C:C5'	2.34	0.56
2:AA:1162:G:H21	26:A2:90:PHE:HD2	1.54	0.56
2:AA:1274:A:C2	2:AA:1297:C:O2	2.58	0.56
2:AA:1314:C:H42	2:AA:1338:G:H1	1.53	0.56
2:AA:1341:U:C5	2:AA:1397:U:O2	2.59	0.56
2:AA:1519:G:OP1	2:AA:1519:G:C4'	2.51	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1526:G:OP2	2:AA:1527:G:OP1	2.24	0.56
2:AA:1539:G:OP1	2:AA:1539:G:H4'	2.06	0.56
2:AA:1695:G:H2'	2:AA:1696:G:O5'	2.03	0.56
2:AA:1764:G:C6	2:AA:1989:G:C2	2.93	0.56
2:AA:1771:C:O2	2:AA:1772:G:C8	2.59	0.56
2:AA:1856:G:C6	2:AA:1887:C:N4	2.74	0.56
2:AA:1936:A:H1'	2:AA:1940:U:C4	2.37	0.56
2:AA:1996:C:H2'	2:AA:1997:G:C4'	2.36	0.56
2:AA:19:C:O2	2:AA:19:C:H2'	2.06	0.56
2:AA:2014:A:C4	2:AA:2015:A:N1	2.74	0.56
2:AA:2143:C:C2	2:AA:2149:G:N2	2.74	0.56
2:AA:238:C:N3	2:AA:239:U:C6	2.74	0.56
2:AA:2687:U:O2	2:AA:2688:U:H6	1.89	0.56
2:AA:383:U:C2	2:AA:385:C:C4	2.94	0.56
2:AA:430:G:OP2	2:AA:430:G:C8	2.58	0.56
2:AA:530:G:HO2'	2:AA:531:C:C3'	2.18	0.56
2:AA:568:U:O2	2:AA:570:G:N7	2.38	0.56
2:AA:572:A:C6	2:AA:573:G:N1	2.73	0.56
2:AA:580:C:C4	2:AA:581:C:N4	2.73	0.56
2:AA:643:A:C2'	2:AA:644:A:C8	2.89	0.56
2:AA:696:G:O2'	2:AA:697:C:H5'	2.05	0.56
2:AA:751:A:N3	2:AA:751:A:H2'	2.21	0.56
2:AA:751:A:N1	2:AA:789:A:C5	2.73	0.56
2:AA:800:A:O2'	2:AA:801:G:C5'	2.53	0.56
2:AA:806:C:O2'	2:AA:2445:G:C4'	2.50	0.56
2:AA:832:G:O2'	2:AA:833:U:O5'	2.24	0.56
2:AA:857:C:C3'	2:AA:857:C:C6	2.88	0.56
2:AA:881:G:C6	2:AA:882:G:C4	2.93	0.56
1:AB:6:C:H5'	1:AB:27:C:O2'	2.05	0.56
1:AB:90:C:O2'	1:AB:91:C:C5'	2.53	0.56
3:AC:127:LEU:HA	3:AC:130:ILE:CD1	2.34	0.56
3:AC:27:HIS:CE1	3:AC:182:PRO:CG	2.88	0.56
3:AC:20:TYR:CZ	3:AC:222:VAL:HG22	2.40	0.56
3:AC:39:GLU:OE2	3:AC:218:MET:O	2.24	0.56
5:AE:85:ALA:HB1	5:AE:87:GLU:CD	2.25	0.56
6:AF:164:ALA:O	6:AF:167:ASP:CB	2.51	0.56
7:AG:106:PHE:O	7:AG:130:VAL:CG2	2.47	0.56
8:AH:32:LEU:HB3	8:AH:78:VAL:CG2	2.34	0.56
8:AH:93:TYR:C	8:AH:94:ARG:HG3	2.26	0.56
9:AI:80:ILE:HG23	9:AI:103:LYS:CD	2.24	0.56
10:AK:6:LEU:HD12	10:AK:35:LEU:CA	2.29	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:104:GLN:C	11:AL:107:GLU:HG3	2.26	0.56
11:AL:71:LYS:O	11:AL:72:THR:C	2.44	0.56
12:AM:15:ARG:HA	12:AM:44:ALA:CA	2.36	0.56
12:AM:39:VAL:HG12	12:AM:104:TYR:C	2.26	0.56
12:AM:51:GLU:O	12:AM:54:VAL:HG23	2.05	0.56
14:AO:67:ARG:NH2	14:AO:109:LEU:O	2.39	0.56
15:AP:140:TYR:C	15:AP:142:LYS:N	2.54	0.56
15:AP:28:ILE:HG23	15:AP:62:GLU:OE2	2.06	0.56
16:AQ:98:GLU:HG3	16:AQ:99:GLU:H	1.70	0.56
19:AT:13:LYS:O	19:AT:17:ASP:OD1	2.22	0.56
19:AT:5:ILE:HD11	19:AT:41:VAL:HA	1.88	0.56
20:AU:92:ASP:O	20:AU:94:SER:N	2.38	0.56
20:AU:99:THR:O	20:AU:101:LEU:N	2.39	0.56
21:AV:16:GLU:N	21:AV:36:ARG:NH1	2.46	0.56
36:B1:10:U:H3	36:B1:46:A:H61	1.54	0.56
34:BA:921:U:OP1	34:BA:1082:G:H5''	2.06	0.56
34:BA:1206:G:C6	34:BA:1207:G:C5	2.94	0.56
34:BA:1227:A:C8	34:BA:1228:C:O4'	2.58	0.56
34:BA:232:G:H2'	34:BA:233:C:O4'	2.05	0.56
34:BA:492:G:H2'	34:BA:494:G:H5'	1.87	0.56
34:BA:55:A:C4	34:BA:56:U:C6	2.94	0.56
34:BA:627:G:C2	34:BA:628:G:C5	2.94	0.56
34:BA:653:A:O4'	43:BK:56:LYS:NZ	2.33	0.56
34:BA:767:A:N6	34:BA:813:U:N3	2.53	0.56
34:BA:838:G:N1	34:BA:849:C:C4	2.73	0.56
34:BA:88:A:C2	34:BA:89:C:H1'	2.41	0.56
34:BA:923:A:P	40:BH:21:ALA:HB2	2.46	0.56
34:BA:961:U:C4	34:BA:974:A:N1	2.64	0.56
37:BE:97:TRP:CZ2	37:BE:176:GLU:OE1	2.58	0.56
37:BE:82:ARG:NH1	37:BE:92:TYR:OH	2.39	0.56
38:BF:138:VAL:HG22	38:BF:151:VAL:HG21	1.84	0.56
38:BF:157:ILE:CD1	38:BF:164:ARG:CZ	2.80	0.56
38:BF:20:SER:HA	38:BF:57:ILE:O	2.06	0.56
40:BH:91:LEU:HD11	40:BH:110:LEU:HD11	1.87	0.56
41:BI:100:ASN:ND2	53:BU:23:LYS:O	2.39	0.56
42:BJ:10:ARG:HG2	42:BJ:10:ARG:NH1	2.19	0.56
43:BK:37:ARG:HD2	43:BK:38:ILE:CD1	2.26	0.56
43:BK:98:LYS:C	43:BK:98:LYS:NZ	2.59	0.56
44:BL:102:LEU:O	44:BL:103:THR:CB	2.53	0.56
44:BL:37:PHE:C	44:BL:40:LEU:HD12	2.25	0.56
45:BM:75:ILE:O	45:BM:76:ASN:HB2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:29:ILE:HG22	46:BN:44:SER:CB	2.36	0.56
48:BP:34:LEU:HD13	48:BP:41:PRO:HB3	1.85	0.56
48:BP:96:LEU:N	48:BP:96:LEU:HD23	2.20	0.56
51:BS:52:ASP:OD1	51:BS:55:ARG:HB2	2.06	0.56
51:BS:68:ASP:C	51:BS:70:ALA:N	2.57	0.56
52:BT:67:LYS:O	52:BT:68:ARG:CB	2.54	0.56
53:BU:46:GLU:CB	53:BU:85:LEU:CD1	2.76	0.56
54:BV:13:ASP:HA	54:BV:16:LEU:HB3	1.87	0.56
54:BV:36:ARG:NH2	54:BV:72:GLY:CA	2.69	0.56
39:BG:187:ARG:HH21	39:BG:188:LEU:CD1	2.19	0.56
24:A0:67:LEU:HD23	24:A0:76:VAL:HG21	1.87	0.56
25:A1:50:ARG:NH1	26:A2:74:TYR:CD2	2.74	0.56
25:A1:63:GLN:C	25:A1:65:ILE:N	2.52	0.56
27:A3:19:LYS:HB2	27:A3:21:LEU:HD11	1.86	0.56
27:A3:40:GLN:N	27:A3:69:PHE:CE1	2.74	0.56
2:AA:1061:U:H5'	2:AA:1070:A:H4'	1.85	0.56
2:AA:1087:G:C2	2:AA:1103:A:C4	2.94	0.56
2:AA:1233:C:C2'	2:AA:1234:U:O5'	2.53	0.56
2:AA:1355:G:H2'	2:AA:1356:G:C8	2.37	0.56
2:AA:134:C:C2'	2:AA:135:G:H5'	2.35	0.56
2:AA:1434:A:C4	2:AA:1560:G:N2	2.74	0.56
2:AA:1450:C:O2	2:AA:1450:C:H2'	2.05	0.56
2:AA:1498:C:C6	2:AA:1576:U:O2'	2.57	0.56
2:AA:1693:U:O4	2:AA:1829:A:N6	2.38	0.56
2:AA:1829:A:N3	2:AA:1830:C:O4'	2.39	0.56
2:AA:1879:C:H2'	2:AA:1880:C:C6	2.40	0.56
2:AA:1913:A:N6	2:AA:1916:A:H3'	2.21	0.56
2:AA:1920:C:P	34:BA:1517:G:H1'	2.46	0.56
2:AA:1971:A:H3'	2:AA:1971:A:C8	2.40	0.56
2:AA:2000:G:N3	2:AA:2001:A:C8	2.73	0.56
2:AA:2080:G:O3'	28:A4:33:VAL:HG22	2.05	0.56
2:AA:2122:U:H2'	2:AA:2123:G:H5''	1.87	0.56
2:AA:2183:C:C2	2:AA:2184:G:C8	2.93	0.56
2:AA:2090:G:C5	2:AA:2230:G:O6	2.59	0.56
2:AA:225:A:N6	2:AA:226:G:C6	2.74	0.56
2:AA:2277:G:N3	2:AA:2277:G:H2'	2.20	0.56
2:AA:2283:C:C2	2:AA:2284:C:H1'	2.40	0.56
2:AA:2328:A:H2'	2:AA:2329:G:H8	1.70	0.56
2:AA:2344:U:C2'	2:AA:2344:U:O2	2.53	0.56
2:AA:234:C:N4	2:AA:430:G:N2	2.54	0.56
2:AA:2416:C:C2	2:AA:2417:C:C5	2.93	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2596:U:O3'	2:AA:2597:G:O4'	2.24	0.56
2:AA:2657:A:C8	2:AA:2657:A:H3'	2.40	0.56
2:AA:270(Q):C:HO2'	2:AA:270(R):G:H5'	1.70	0.56
2:AA:281:G:O2'	2:AA:282:A:O4'	2.24	0.56
2:AA:2830:G:C2	2:AA:2883:A:H2	2.24	0.56
2:AA:29:U:O5'	2:AA:29:U:H6	1.89	0.56
2:AA:295:G:N2	2:AA:344:G:C4	2.71	0.56
2:AA:397:G:OP1	28:A4:41:PRO:CG	2.53	0.56
2:AA:408:G:H8	2:AA:408:G:O5'	1.89	0.56
2:AA:447:A:N6	2:AA:473:G:C4	2.73	0.56
2:AA:600:G:O2'	6:AF:109:LEU:CD1	2.53	0.56
2:AA:627:A:N7	14:AO:109:LEU:HD21	2.21	0.56
2:AA:653:A:C5'	2:AA:654:A:H4'	2.35	0.56
2:AA:886:C:H5''	2:AA:887:A:OP1	2.06	0.56
1:AB:37:C:H42	1:AB:48:A:HO2'	1.48	0.56
3:AC:127:LEU:CB	3:AC:130:ILE:HB	2.36	0.56
4:AD:112:GLY:O	4:AD:113:MET:C	2.44	0.56
4:AD:210:LYS:O	4:AD:213:LYS:CA	2.54	0.56
4:AD:90:ILE:HG23	4:AD:91:ALA:N	2.20	0.56
2:AA:2316:C:C4'	7:AG:151:ILE:CD1	2.79	0.56
8:AH:116:PRO:HB3	8:AH:122:ILE:HD11	1.86	0.56
8:AH:19:ASN:O	8:AH:21:ASN:N	2.34	0.56
11:AL:29:GLY:HA2	11:AL:33:VAL:O	2.06	0.56
14:AO:105:TYR:CD2	14:AO:105:TYR:N	2.72	0.56
15:AP:67:ALA:CB	15:AP:70:ARG:NH1	2.65	0.56
16:AQ:54:GLY:O	16:AQ:55:ASP:O	2.23	0.56
18:AS:69:LEU:HA	18:AS:108:GLY:O	2.05	0.56
20:AU:102:ASP:HB3	20:AU:108:ARG:NH1	2.20	0.56
20:AU:81:LYS:HG2	20:AU:82:THR:N	2.18	0.56
23:AX:17:LYS:O	23:AX:18:ASP:C	2.42	0.56
34:BA:1048:G:OP1	49:BQ:3:ARG:HG3	2.06	0.56
34:BA:1094:G:O2'	34:BA:1095:U:OP2	2.23	0.56
34:BA:109:A:N7	34:BA:326:G:C4	2.74	0.56
34:BA:1174:G:C2'	34:BA:1175:G:H5'	2.36	0.56
34:BA:1195:C:N3	34:BA:1197:G:C8	2.74	0.56
34:BA:1301:U:C4	34:BA:1303:C:N1	2.74	0.56
34:BA:1358:U:OP2	34:BA:1359:C:C5	2.59	0.56
34:BA:1374:A:O3'	42:BJ:28:ASN:OD1	2.22	0.56
34:BA:1470:G:C4	34:BA:1471:G:C8	2.93	0.56
34:BA:1503:A:C8	36:B1:57:A:N6	2.74	0.56
34:BA:1531:A:H2'	34:BA:1532:U:C6	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:166:G:O2'	34:BA:167:G:C5'	2.52	0.56
34:BA:171:A:O2'	34:BA:172:A:H5'	2.06	0.56
34:BA:188:C:H2'	34:BA:189:G:H5'	1.87	0.56
34:BA:225:C:H2'	34:BA:225:C:O2	2.06	0.56
34:BA:1030:C:H2'	34:BA:30(A):G:H8	1.71	0.56
34:BA:491:G:H8	34:BA:491:G:O5'	1.88	0.56
34:BA:507:C:H2'	34:BA:508:C:C5	2.36	0.56
34:BA:619:U:O2	39:BG:133:VAL:HA	2.05	0.56
34:BA:64:G:N2	34:BA:67:C:C4	2.73	0.56
34:BA:687:A:HO2'	34:BA:688:G:P	2.29	0.56
34:BA:84:U:C4	34:BA:88:A:N7	2.74	0.56
34:BA:962:C:C5	34:BA:963:G:N7	2.74	0.56
34:BA:970:C:C4	48:BP:126:LYS:HD3	2.41	0.56
37:BE:212:GLN:HE21	37:BE:215:LEU:HB3	1.71	0.56
37:BE:222:ILE:CD1	37:BE:226:ARG:HE	2.19	0.56
37:BE:24:TRP:CE3	37:BE:26:PRO:HA	2.41	0.56
38:BF:156:ARG:HB2	38:BF:196:LEU:HD22	1.88	0.56
38:BF:147:LYS:HB3	38:BF:203:PHE:HD2	1.71	0.56
38:BF:41:GLY:O	38:BF:45:LYS:HG3	2.06	0.56
38:BF:38:ARG:HB3	38:BF:94:LEU:HD11	1.86	0.56
34:BA:824:C:H1'	43:BK:1:MET:N	2.21	0.56
43:BK:29:SER:CB	43:BK:32:LYS:HZ2	2.09	0.56
44:BL:98:PRO:C	44:BL:100:GLY:N	2.54	0.56
46:BN:99:GLN:HA	46:BN:105:VAL:HG22	1.87	0.56
47:BO:28:LYS:HD2	47:BO:33:ARG:NH1	2.20	0.56
47:BO:85:ILE:HG12	47:BO:87:GLY:H	1.70	0.56
48:BP:105:THR:O	48:BP:106:ASN:O	2.23	0.56
50:BR:74:ASP:O	50:BR:76:GLU:N	2.39	0.56
51:BS:32:TYR:HE2	51:BS:35:LYS:HB2	1.66	0.56
53:BU:74:ARG:CG	53:BU:81:PHE:HB3	2.35	0.56
35:BB:40:C:O2'	48:BP:120:LYS:HE2	2.06	0.56
1:AB:12:C:H6	27:A3:53:MET:SD	2.29	0.56
24:A0:20:LEU:HD21	24:A0:24:GLN:CG	2.36	0.56
24:A0:77:ARG:O	24:A0:78:LYS:C	2.42	0.56
25:A1:74:MET:HG3	25:A1:117:ARG:HH12	1.69	0.56
26:A2:3:ALA:CA	26:A2:44:GLN:OE1	2.53	0.56
27:A3:44:LYS:CD	27:A3:78:PHE:CE2	2.79	0.56
18:AS:19:LEU:HB3	29:A5:25:LEU:HD11	1.86	0.56
2:AA:1044:G:H4'	2:AA:1047:G:C4'	2.36	0.56
2:AA:1063:G:O2'	11:AL:90:SER:O	2.21	0.56
2:AA:112:U:C5	2:AA:113:G:N9	2.74	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1143:A:O2'	2:AA:1144:G:O5'	2.24	0.56
2:AA:818:G:N2	2:AA:1189:A:N6	2.29	0.56
2:AA:1194:A:C6	2:AA:1195:G:C5	2.94	0.56
2:AA:10:G:H2'	2:AA:11:G:H8	1.68	0.56
2:AA:1305:C:C2'	2:AA:1306:C:O5'	2.54	0.56
2:AA:1439:A:H2'	2:AA:1440:G:O4'	2.06	0.56
2:AA:1403:C:O3'	2:AA:1471:A:H4'	2.05	0.56
2:AA:1491:G:O2'	2:AA:1492:G:C5'	2.54	0.56
2:AA:1530:G:OP2	2:AA:1539:G:N1	2.39	0.56
2:AA:1778:U:C6	2:AA:1784:A:C2	2.94	0.56
2:AA:178:G:C6	2:AA:179:G:C8	2.94	0.56
2:AA:1812:A:C2'	2:AA:1813:G:H5'	2.35	0.56
2:AA:1891:G:H3'	2:AA:1892:C:C6	2.39	0.56
2:AA:1996:C:O2	2:AA:1997:G:C4'	2.54	0.56
2:AA:1999:C:H2'	2:AA:2000:G:O5'	2.05	0.56
2:AA:530:G:O6	2:AA:2022:U:OP1	2.22	0.56
2:AA:2074:U:H3'	2:AA:2075:U:H5	1.71	0.56
2:AA:2273:A:C2'	2:AA:2274:A:H5'	2.36	0.56
2:AA:2295:C:H2'	2:AA:2296:U:C5'	2.35	0.56
2:AA:2320:A:C8	2:AA:2320:A:O5'	2.57	0.56
2:AA:2649:U:H2'	2:AA:2650:U:C5	2.39	0.56
2:AA:2675:A:O2'	2:AA:2676:C:C5'	2.52	0.56
2:AA:2747:G:C2	2:AA:2754:U:N3	2.73	0.56
2:AA:29:U:H2'	2:AA:30:G:H8	1.63	0.56
2:AA:273(F):C:O2'	2:AA:363(A):A:C2	2.52	0.56
2:AA:270(C):C:P	2:AA:365:C:O2'	2.64	0.56
2:AA:365:C:O5'	2:AA:365:C:H6	1.87	0.56
2:AA:447:A:H1'	2:AA:449:A:H62	0.58	0.56
2:AA:460:A:H3'	2:AA:461:C:C6	2.41	0.56
2:AA:540:G:C6	2:AA:541:C:C4	2.94	0.56
2:AA:545(A):A:H3'	2:AA:545(A):A:C8	2.41	0.56
2:AA:545(A):A:OP2	2:AA:1546:C:C5	2.58	0.56
2:AA:583:G:C2'	2:AA:584:C:O5'	2.53	0.56
2:AA:653:A:N7	2:AA:655:A:C8	2.74	0.56
2:AA:65:C:N4	2:AA:66:C:H41	2.03	0.56
2:AA:693:C:H2'	2:AA:694:U:C6	2.41	0.56
2:AA:697:C:O2'	2:AA:698:C:C5'	2.40	0.56
2:AA:744:G:C2'	2:AA:745:G:O5'	2.54	0.56
2:AA:799:G:C5	2:AA:800:A:N1	2.73	0.56
2:AA:89:G:N1	2:AA:90:U:O4	2.39	0.56
2:AA:909:A:O2'	2:AA:911:A:OP2	2.24	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:946:G:C2'	2:AA:947:G:O4'	2.53	0.56
4:AD:128:ALA:HB1	4:AD:189:ALA:O	2.06	0.56
4:AD:174:ARG:HD3	4:AD:179:GLU:O	2.06	0.56
4:AD:213:LYS:CB	4:AD:215:LYS:H	2.17	0.56
4:AD:92:LEU:HD11	4:AD:102:TYR:CD2	2.41	0.56
6:AF:155:SER:O	6:AF:156:LEU:C	2.44	0.56
6:AF:56:THR:O	6:AF:79:ARG:CD	2.54	0.56
8:AH:58:LYS:HA	8:AH:61:ARG:CZ	2.35	0.56
11:AL:19:THR:HA	11:AL:39:CYS:SG	2.46	0.56
12:AM:45:VAL:HG13	12:AM:131:THR:CB	2.36	0.56
12:AM:45:VAL:CG1	12:AM:131:THR:N	2.67	0.56
12:AM:60:ARG:CB	12:AM:71:TYR:HD2	2.18	0.56
13:AN:119:PRO:CD	13:AN:120:GLU:H	2.17	0.56
13:AN:35:ILE:CD1	13:AN:35:ILE:H	2.18	0.56
13:AN:87:ILE:HA	13:AN:92:SER:O	2.06	0.56
15:AP:26:LYS:NZ	15:AP:88:PHE:CB	2.69	0.56
15:AP:57:ARG:C	15:AP:61:LEU:HD11	2.26	0.56
15:AP:94:ARG:NH1	15:AP:104:PRO:HB2	2.21	0.56
16:AQ:122:ALA:HB2	16:AQ:127:LEU:HD13	1.88	0.56
16:AQ:89:GLY:HA3	16:AQ:125:ALA:CB	2.35	0.56
17:AR:4:ARG:N	17:AR:4:ARG:HE	2.03	0.56
20:AU:101:LEU:HD22	20:AU:103:LEU:CD1	2.35	0.56
20:AU:19:ARG:HA	20:AU:21:LYS:HZ3	1.71	0.56
20:AU:31:LEU:HD13	20:AU:101:LEU:HD12	1.87	0.56
21:AV:118:HIS:CD2	21:AV:168:VAL:CA	2.79	0.56
22:AW:55:ARG:O	22:AW:58:THR:N	2.39	0.56
2:AA:850:C:C4'	23:AX:18:ASP:OD1	2.30	0.56
23:AX:55:ARG:CZ	23:AX:55:ARG:CB	2.84	0.56
34:BA:1014:A:H4'	54:BV:14:HIS:CE1	2.41	0.56
34:BA:1147:C:C2	34:BA:1148:U:C5	2.93	0.56
34:BA:1168:A:C6	34:BA:1169:A:C2	2.93	0.56
34:BA:131:C:O2	34:BA:131:C:C2'	2.52	0.56
34:BA:1346:A:N6	34:BA:1374:A:H3'	2.21	0.56
34:BA:1428:A:C5	34:BA:1429:C:C4	2.94	0.56
34:BA:1524:C:C2	34:BA:1525:G:C8	2.93	0.56
34:BA:258:G:O2'	34:BA:259:G:O5'	2.23	0.56
34:BA:303:A:H2'	34:BA:304:U:O4'	2.06	0.56
34:BA:513:C:C4	34:BA:514:C:N4	2.73	0.56
34:BA:519:C:O2'	34:BA:520:A:H5'	2.06	0.56
34:BA:658:G:H2'	34:BA:659:U:C5'	2.36	0.56
34:BA:748:C:P	34:BA:748:C:C6	2.99	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:862:C:C5	34:BA:863:U:C5	2.94	0.56
34:BA:877:C:C2'	34:BA:877:C:O2	2.52	0.56
34:BA:952:U:H5''	34:BA:972:C:H41	1.68	0.56
35:BC:34:G:H22	36:B1:62:G:N2	2.00	0.56
35:BC:54:U:O2'	35:BC:55:U:H5'	2.06	0.56
37:BE:162:ILE:N	37:BE:162:ILE:HD13	2.20	0.56
37:BE:80:ILE:CD1	37:BE:208:ILE:HG23	2.31	0.56
37:BE:221:LEU:O	37:BE:224:GLN:HB2	2.05	0.56
37:BE:96:ARG:H	37:BE:96:ARG:HD2	1.69	0.56
38:BF:152:ILE:HD12	38:BF:201:TYR:CE1	2.37	0.56
38:BF:22:TRP:CH2	38:BF:32:LEU:HB3	2.41	0.56
38:BF:77:ILE:C	38:BF:83:ARG:HB3	2.26	0.56
39:BG:65:ARG:CD	39:BG:72:GLU:OE2	2.52	0.56
40:BH:42:GLY:CA	40:BH:66:MET:SD	2.93	0.56
42:BJ:68:ASN:O	42:BJ:138:LYS:HD2	2.05	0.56
34:BA:826:C:C1'	43:BK:15:ASN:HD22	2.17	0.56
44:BL:10:ARG:CZ	44:BL:75:ASP:OD2	2.54	0.56
45:BM:75:ILE:HG22	45:BM:76:ASN:ND2	2.20	0.56
46:BN:92:GLU:O	46:BN:93:GLN:C	2.43	0.56
49:BQ:29:ARG:O	49:BQ:33:VAL:CG1	2.53	0.56
53:BU:56:THR:O	53:BU:58:LEU:HG	2.05	0.56
53:BU:60:GLY:O	53:BU:61:LYS:C	2.44	0.56
55:BW:84:LEU:C	55:BW:84:LEU:HD13	2.26	0.56
10:AK:133:LEU:H	10:AK:138:THR:HG22	1.70	0.56
27:A3:52:GLY:O	27:A3:53:MET:CB	2.54	0.56
2:AA:2258:C:C4	2:AA:2426:A:O4'	2.58	0.56
10:AK:56:ARG:O	10:AK:60:GLU:CB	2.54	0.56
25:A1:117:ARG:HD3	25:A1:118:GLN:HG2	1.88	0.56
25:A1:61:TRP:HZ3	25:A1:94:VAL:CA	2.18	0.56
27:A3:45:PHE:CE1	27:A3:78:PHE:CD2	2.94	0.56
18:AS:19:LEU:CB	29:A5:25:LEU:HG	2.36	0.56
31:A7:30:ILE:HD13	31:A7:33:ARG:NE	2.20	0.56
2:AA:1024:G:N7	2:AA:1025:G:N9	2.53	0.56
2:AA:1082:U:H3'	2:AA:1082:U:C6	2.41	0.56
2:AA:1139:G:HO2'	2:AA:1140:C:H5'	1.70	0.56
2:AA:10:G:C2	2:AA:11:G:C5	2.93	0.56
2:AA:1233:C:H2'	2:AA:1234:U:C5'	2.35	0.56
2:AA:585:G:C2	2:AA:1251:C:N4	2.71	0.56
2:AA:1327:C:C6	2:AA:1328:G:N7	2.74	0.56
2:AA:1335:U:O2'	2:AA:1336:A:H5'	2.06	0.56
2:AA:1369:G:H2'	2:AA:1370:C:O4'	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1466:G:H2'	2:AA:1547:C:N4	2.18	0.56
2:AA:1468:C:O2	2:AA:1468:C:C2'	2.54	0.56
2:AA:1604:C:C2'	2:AA:1604:C:O2	2.53	0.56
2:AA:1652:A:N3	2:AA:1652:A:H2'	2.19	0.56
2:AA:1685:C:C2'	2:AA:1686:C:H5'	2.35	0.56
2:AA:1703:G:C2	2:AA:1704:G:C4	2.94	0.56
2:AA:1707:G:C2	2:AA:1708:C:C4	2.94	0.56
2:AA:1765:C:H2'	2:AA:1766:U:H6	1.70	0.56
2:AA:1800:C:C2	2:AA:1817:G:N2	2.73	0.56
2:AA:1936:A:C5	2:AA:1945:G:C5	2.93	0.56
2:AA:1937:A:N7	2:AA:1939:U:C4	2.73	0.56
2:AA:1954:G:N2	2:AA:2551:C:H5''	2.20	0.56
2:AA:2043:C:N3	2:AA:2044:C:H5	2.04	0.56
2:AA:2081:C:C2	2:AA:2082:A:H8	2.24	0.56
2:AA:1889:A:H4'	2:AA:2087:G:H5'	1.88	0.56
2:AA:2212:A:N1	2:AA:2215:G:O4'	2.39	0.56
2:AA:2226:C:N4	2:AA:2227:A:N3	2.54	0.56
2:AA:2412:A:O5'	2:AA:2412:A:H8	1.89	0.56
2:AA:2414:G:N3	2:AA:2415:G:C8	2.74	0.56
2:AA:250:G:N3	2:AA:250:G:C2'	2.69	0.56
2:AA:2023:G:H4'	2:AA:2618:G:OP1	2.06	0.56
2:AA:2631:G:H1'	2:AA:2892:A:H1'	1.88	0.56
2:AA:2659:G:O2'	2:AA:2661:G:N7	2.39	0.56
2:AA:270(Q):C:C2	2:AA:270(R):G:H8	2.24	0.56
2:AA:2714:G:O6	2:AA:2715:C:N4	2.38	0.56
2:AA:2740:A:C6	2:AA:2764:A:N9	2.74	0.56
2:AA:2809:A:N3	2:AA:2809:A:O4'	2.38	0.56
2:AA:2824:C:N3	2:AA:2825:C:C1'	2.69	0.56
2:AA:2623:G:H4'	2:AA:2826:A:C1'	2.35	0.56
2:AA:2840:C:C4	2:AA:2841:C:C5	2.93	0.56
2:AA:2808:U:C2	2:AA:2892:A:C6	2.94	0.56
2:AA:365:C:C2	2:AA:366:C:C5	2.94	0.56
2:AA:401:A:C2'	2:AA:402:A:H8	2.08	0.56
2:AA:612:G:N2	2:AA:617:G:O6	2.39	0.56
2:AA:679:C:O2	2:AA:680:G:C8	2.59	0.56
2:AA:987:G:C5	2:AA:988:A:C8	2.93	0.56
1:AB:78:A:P	21:AV:73:LYS:HZ1	2.29	0.56
1:AB:6:C:H2'	1:AB:7:G:H8	1.70	0.56
3:AC:114:VAL:CG1	3:AC:153:ILE:HG12	2.35	0.56
3:AC:42:GLU:OE2	3:AC:173:ALA:HA	2.06	0.56
3:AC:80:GLY:O	3:AC:83:ILE:N	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:89:ALA:CA	3:AC:154:ARG:NH1	2.67	0.56
5:AE:100:TRP:O	5:AE:102:ASP:N	2.39	0.56
5:AE:225:LYS:O	5:AE:226:HIS:ND1	2.39	0.56
6:AF:150:THR:O	6:AF:153:VAL:HB	2.06	0.56
7:AG:139:TYR:CE1	7:AG:156:ARG:HG3	2.40	0.56
7:AG:45:THR:CA	7:AG:83:PHE:CZ	2.89	0.56
8:AH:116:PRO:HB2	8:AH:120:LEU:C	2.27	0.56
9:AI:77:VAL:CG2	9:AI:102:ILE:HD11	2.34	0.56
2:AA:1085:A:H5'	9:AI:29:PHE:CB	2.35	0.56
9:AI:63:LEU:HD13	9:AI:66:PHE:CE1	2.41	0.56
12:AM:21:ARG:HD2	12:AM:21:ARG:N	2.12	0.56
14:AO:125:PHE:N	14:AO:125:PHE:CD1	2.73	0.56
17:AR:23:HIS:CE1	17:AR:24:LYS:O	2.59	0.56
18:AS:13:SER:O	18:AS:14:PRO:O	2.24	0.56
20:AU:77:VAL:HG21	20:AU:91:LEU:HD13	1.87	0.56
21:AV:138:VAL:O	21:AV:140:LYS:HE3	2.06	0.56
21:AV:152:ILE:O	21:AV:153:LYS:HB2	2.05	0.56
21:AV:4:THR:O	21:AV:5:ALA:CB	2.54	0.56
21:AV:1:MET:H2	21:AV:54:ILE:CD1	2.19	0.56
21:AV:67:LYS:O	21:AV:67:LYS:HG3	2.05	0.56
23:AX:21:ALA:O	23:AX:25:ALA:CB	2.54	0.56
23:AX:50:VAL:HG11	23:AX:53:LEU:HD12	1.88	0.56
34:BA:1125:U:C2'	34:BA:1126:U:OP2	2.53	0.56
34:BA:1126:U:C2'	34:BA:1127:G:O5'	2.54	0.56
34:BA:1154:G:C4	34:BA:1155:G:C8	2.92	0.56
34:BA:1188:A:C4	34:BA:1189:C:C6	2.94	0.56
34:BA:1329:A:O2'	34:BA:1330:U:H5'	2.06	0.56
34:BA:1496:C:N4	34:BA:1497:G:C5	2.74	0.56
34:BA:16:A:N3	34:BA:16:A:H2'	2.20	0.56
34:BA:190:C:O2'	34:BA:190(A):C:C5'	2.54	0.56
34:BA:195:A:C8	34:BA:195:A:H5'	2.32	0.56
34:BA:196:A:H1'	34:BA:222:U:C1'	2.35	0.56
34:BA:204:U:H4'	34:BA:216:G:O4'	2.06	0.56
34:BA:247:G:H2'	34:BA:248:C:O5'	2.05	0.56
34:BA:301:G:C2	34:BA:302:G:C4	2.93	0.56
34:BA:412:A:H4'	34:BA:413:G:H8	1.71	0.56
34:BA:463:A:C1'	51:BS:82:GLN:NE2	2.69	0.56
34:BA:481:G:C4'	34:BA:482:A:OP1	2.46	0.56
34:BA:601:C:O2'	34:BA:602:A:H5'	2.05	0.56
34:BA:771:G:O2'	34:BA:772:U:H5'	2.05	0.56
34:BA:900:A:H2'	34:BA:901:A:H8	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BC:19:G:C6	35:BC:57:G:N2	2.74	0.56
37:BE:152:PHE:C	37:BE:152:PHE:HD1	2.09	0.56
37:BE:19:HIS:O	37:BE:20:GLU:O	2.22	0.56
37:BE:200:ILE:O	37:BE:202:PRO:CD	2.54	0.56
37:BE:44:LEU:O	37:BE:47:THR:N	2.39	0.56
34:BA:620:C:C4	39:BG:135:LEU:HD13	2.41	0.56
40:BH:101:ILE:N	40:BH:101:ILE:HD13	2.21	0.56
42:BJ:75:VAL:HG12	42:BJ:76:ARG:N	2.19	0.56
43:BK:97:VAL:HG13	43:BK:98:LYS:N	2.21	0.56
44:BL:115:GLY:O	44:BL:117:HIS:N	2.38	0.56
45:BM:15:THR:OG1	45:BM:94:VAL:CG2	2.53	0.56
47:BO:102:ARG:CB	47:BO:109:GLY:HA2	2.36	0.56
47:BO:38:THR:C	47:BO:39:VAL:HG23	2.25	0.56
47:BO:58:VAL:HG12	47:BO:60:LEU:CD1	2.36	0.56
49:BQ:26:ARG:C	49:BQ:28:GLY:H	2.09	0.56
50:BR:55:GLY:O	50:BR:56:LEU:C	2.43	0.56
50:BR:74:ASP:C	50:BR:76:GLU:H	2.08	0.56
51:BS:58:TYR:HD1	51:BS:59:TRP:HA	1.71	0.56
52:BT:51:TYR:CD1	52:BT:51:TYR:N	2.65	0.56
52:BT:59:ILE:HD12	52:BT:72:ARG:O	2.05	0.56
10:AK:68:LEU:O	10:AK:72:LEU:HG	2.06	0.56
25:A1:99:ALA:HB2	25:A1:106:PHE:CD2	2.40	0.56
26:A2:50:ASP:CG	26:A2:53:LYS:HE3	2.27	0.56
30:A6:29:ARG:O	30:A6:31:THR:N	2.39	0.56
2:AA:650:C:OP1	32:A8:17:THR:OG1	2.24	0.56
2:AA:1058:G:C2	9:AI:3:ILE:HD11	2.41	0.56
2:AA:1082:U:H6	2:AA:1082:U:O5'	1.89	0.56
2:AA:1143:A:C4	2:AA:1144:G:C8	2.94	0.56
2:AA:139:G:H2'	2:AA:141(A):C:H2'	1.84	0.56
2:AA:1451:C:H5	2:AA:1453:A:O3'	1.88	0.56
2:AA:1455:G:C8	2:AA:1455:G:C3'	2.89	0.56
2:AA:154:G:N3	2:AA:155:C:C1'	2.68	0.56
2:AA:1608:A:C8	2:AA:1611:C:C4	2.94	0.56
2:AA:1668:A:O2'	2:AA:1669:A:H5'	2.06	0.56
2:AA:1727:U:H2'	2:AA:1730:U:H3	1.71	0.56
2:AA:1809:A:H5''	2:AA:1810:A:N1	2.21	0.56
2:AA:1883:G:C4	2:AA:1884:A:C2	2.94	0.56
2:AA:1944:U:C4'	2:AA:1955:U:H1'	2.36	0.56
2:AA:1977:A:N3	2:AA:1978:A:C8	2.74	0.56
2:AA:1996:C:H5''	2:AA:1996:C:C6	2.33	0.56
2:AA:2033:A:OP2	2:AA:2033:A:O4'	2.24	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2033:A:C2	2:AA:2036:C:C5	2.94	0.56
2:AA:2023:G:N2	2:AA:2041:U:C2	2.74	0.56
2:AA:2144:U:OP2	2:AA:2144:U:C6	2.59	0.56
2:AA:2227:A:C6	2:AA:2228:G:C6	2.94	0.56
2:AA:2241:A:O2'	2:AA:2242:G:H5'	2.06	0.56
2:AA:2306:C:H42	7:AG:53:LYS:HD3	1.71	0.56
2:AA:2333:A:H1'	2:AA:2335:A:C6	2.41	0.56
2:AA:2469:A:C5	2:AA:2470:G:C8	2.93	0.56
2:AA:2503:A:H5'	2:AA:2504:U:P	2.46	0.56
2:AA:2509:G:H2'	2:AA:2510:C:C5'	2.36	0.56
2:AA:2680:C:OP2	5:AE:206:LYS:HD2	2.05	0.56
2:AA:2712:U:OP1	2:AA:2714:G:H4'	2.06	0.56
2:AA:527:C:C6	2:AA:2779:U:C6	2.94	0.56
2:AA:2791:C:C2	2:AA:2805:G:N1	2.74	0.56
2:AA:296:C:C2	2:AA:297:C:C5	2.93	0.56
2:AA:455:C:OP1	2:AA:472:A:N1	2.39	0.56
2:AA:514:A:H4'	25:A1:32:TYR:OH	2.06	0.56
2:AA:588:U:C4	2:AA:589:C:H5	2.24	0.56
2:AA:701:G:O2'	2:AA:702:G:H5'	2.04	0.56
2:AA:864:G:O2'	2:AA:865:C:C1'	2.54	0.56
2:AA:865:C:C2'	2:AA:865:C:O2	2.54	0.56
2:AA:928:G:N2	2:AA:929:G:N1	2.52	0.56
1:AB:82:G:O2'	1:AB:83:G:O5'	2.24	0.56
3:AC:120:MET:SD	3:AC:123:VAL:HB	2.46	0.56
3:AC:104:LEU:HB2	3:AC:127:LEU:CD2	2.36	0.56
3:AC:77:ILE:HG22	3:AC:119:VAL:CG2	2.34	0.56
4:AD:144:GLU:CB	4:AD:188:ARG:O	2.51	0.56
5:AE:81:VAL:CB	5:AE:100:TRP:HZ3	2.19	0.56
5:AE:301:PRO:O	5:AE:303:PRO:HD2	2.06	0.56
5:AE:77:PRO:O	5:AE:79:ARG:N	2.39	0.56
6:AF:230:GLY:C	6:AF:231:ARG:HG3	2.26	0.56
6:AF:5:ILE:O	6:AF:6:TYR:O	2.24	0.56
6:AF:81:PRO:O	6:AF:82:GLN:CG	2.54	0.56
6:AF:89:ALA:C	6:AF:90:HIS:CG	2.79	0.56
7:AG:28:GLY:CA	7:AG:69:ILE:HG21	2.26	0.56
8:AH:120:LEU:HD13	8:AH:143:LEU:CD1	2.34	0.56
8:AH:26:LYS:HE3	8:AH:33:THR:HG23	1.88	0.56
9:AI:118:LEU:HB2	9:AI:125:VAL:CG2	2.35	0.56
9:AI:15:VAL:HG22	9:AI:48:ALA:HB3	1.88	0.56
2:AA:1085:A:C5'	9:AI:29:PHE:CG	2.88	0.56
9:AI:74:ILE:HG12	9:AI:92:VAL:HG11	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:93:LYS:N	11:AL:96:ILE:HG13	2.20	0.56
12:AM:134:GLU:O	12:AM:138:THR:HG23	2.06	0.56
12:AM:77:GLY:HA2	12:AM:80:LYS:CG	2.36	0.56
13:AN:43:VAL:HG12	13:AN:54:LYS:HA	1.82	0.56
15:AP:139:ALA:O	15:AP:142:LYS:CB	2.46	0.56
16:AQ:103:ASP:O	16:AQ:103:ASP:OD2	2.23	0.56
16:AQ:124:ASP:O	16:AQ:126:GLY:N	2.39	0.56
19:AT:9:HIS:CE1	19:AT:61:GLU:CD	2.79	0.56
20:AU:41:ARG:CB	20:AU:111:ARG:O	2.54	0.56
20:AU:18:GLU:O	20:AU:21:LYS:CB	2.54	0.56
21:AV:149:ALA:HB3	21:AV:164:PRO:C	2.26	0.56
21:AV:46:GLN:HG3	21:AV:50:GLY:HA3	1.87	0.56
23:AX:11:SER:CB	23:AX:13:ILE:HG12	2.36	0.56
34:BA:1052:U:O3'	34:BA:1055:A:OP1	2.24	0.56
34:BA:1123:A:H2'	34:BA:1124:G:O4'	2.04	0.56
34:BA:1125:U:OP2	34:BA:1145:C:N4	2.39	0.56
34:BA:1295:G:N2	34:BA:1302:U:H3	2.04	0.56
34:BA:1319:A:N7	34:BA:1323:G:C5	2.74	0.56
34:BA:1376:U:C2	34:BA:1377:A:N7	2.74	0.56
34:BA:1468:A:O5'	34:BA:1468:A:H8	1.89	0.56
34:BA:1534:A:P	34:BA:1535:C:C5	2.98	0.56
34:BA:317:G:C2'	34:BA:318:G:O5'	2.54	0.56
34:BA:410:G:N3	34:BA:432:A:C6	2.73	0.56
34:BA:577:G:C2	34:BA:765:G:C2	2.94	0.56
34:BA:596:C:C4	34:BA:645:C:O2	2.59	0.56
34:BA:665:A:C2'	34:BA:725:G:H22	2.07	0.56
34:BA:864:A:H3'	34:BA:864:A:C8	2.41	0.56
34:BA:91:C:N3	34:BA:92:C:C5	2.74	0.56
34:BA:952:U:C5	48:BP:104:ARG:NH1	2.74	0.56
35:BC:51:G:C6	35:BC:64:A:N6	2.74	0.56
37:BE:88:ALA:HA	37:BE:222:ILE:HD11	1.88	0.56
38:BF:112:SER:HB3	38:BF:115:LEU:HB2	1.88	0.56
38:BF:112:SER:CB	38:BF:115:LEU:HB2	2.36	0.56
39:BG:150:GLU:O	39:BG:153:ARG:HG3	2.06	0.56
39:BG:60:GLU:OE2	39:BG:199:ASN:O	2.23	0.56
39:BG:56:VAL:CG1	39:BG:57:ARG:N	2.53	0.56
40:BH:71:LEU:HD23	40:BH:75:THR:N	2.20	0.56
42:BJ:115:ARG:HB2	42:BJ:118:VAL:CG2	2.35	0.56
42:BJ:45:ASP:O	42:BJ:48:LYS:HB2	2.06	0.56
45:BM:26:ALA:HB1	45:BM:84:GLN:HB3	1.87	0.56
49:BQ:55:GLY:O	49:BQ:56:VAL:O	2.24	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BS:22:THR:HG22	51:BS:32:TYR:CB	2.35	0.56
52:BT:59:ILE:CG2	52:BT:59:ILE:O	2.53	0.56
41:BI:96:PRO:HA	53:BU:32:ARG:HD2	1.87	0.56
53:BU:67:ALA:HA	53:BU:70:ILE:CG1	2.36	0.56
54:BV:20:LEU:C	54:BV:20:LEU:HD12	2.26	0.56
54:BV:47:HIS:N	54:BV:62:ILE:HG22	2.21	0.56
55:BW:59:ALA:O	55:BW:62:LEU:N	2.39	0.56
35:BB:37:G:C6	35:BB:38:A:N6	2.74	0.56
2:AA:1509:C:OP2	2:AA:1510:A:O4'	2.24	0.56
37:BE:135:GLN:HB3	37:BE:139:LYS:CE	2.34	0.56
7:AG:60:GLU:O	7:AG:61:PHE:HB2	2.06	0.56
25:A1:38:THR:O	25:A1:41:ASN:OD1	2.24	0.55
2:AA:1011:G:OP1	25:A1:75:ASN:HB3	2.05	0.55
27:A3:19:LYS:HD3	27:A3:21:LEU:CD2	2.34	0.55
28:A4:5:LEU:HD21	28:A4:9:ALA:CA	2.34	0.55
31:A7:30:ILE:CD1	31:A7:33:ARG:CZ	2.84	0.55
2:AA:1024:G:C8	2:AA:1024:G:H3'	2.41	0.55
2:AA:1086:A:H3'	2:AA:1087:G:C5'	2.36	0.55
2:AA:107:C:C2	2:AA:108:U:C5	2.95	0.55
2:AA:980:A:C6	2:AA:1135:C:H4'	2.41	0.55
2:AA:1144:G:H2'	2:AA:1145:C:O4'	2.06	0.55
2:AA:115:C:O2	2:AA:116:C:C6	2.59	0.55
2:AA:1332:G:C4	2:AA:1609:A:C6	2.93	0.55
2:AA:1365:A:OP2	2:AA:1809:A:N6	2.40	0.55
2:AA:1364:G:N2	2:AA:1366:A:H3'	2.20	0.55
2:AA:1431:U:H2'	2:AA:1432:C:H6	1.70	0.55
2:AA:1441:G:H4'	2:AA:1628:G:OP1	2.06	0.55
2:AA:1453:A:O4'	2:AA:1453:A:OP2	2.23	0.55
2:AA:1498:C:C2	2:AA:1499:C:C4	2.94	0.55
2:AA:1554:A:O3'	2:AA:1555:G:C8	2.58	0.55
2:AA:1812:A:O2'	2:AA:1813:G:H5'	2.06	0.55
2:AA:1889:A:H1'	2:AA:2087:G:O4'	2.06	0.55
2:AA:2079:U:H3	2:AA:2241:A:H2	1.54	0.55
2:AA:910:A:C2	2:AA:2264:C:O2	2.59	0.55
2:AA:2294:C:H2'	2:AA:2295:C:H5'	1.88	0.55
2:AA:2069:G:C5	2:AA:2443:C:N4	2.74	0.55
2:AA:2466:C:N4	2:AA:2467:C:C4	2.75	0.55
2:AA:1953:A:N3	2:AA:2560:C:H1'	2.21	0.55
2:AA:225:A:H62	2:AA:419:C:H4'	1.68	0.55
2:AA:447:A:C6	2:AA:473:G:C8	2.93	0.55
2:AA:508:G:H4'	2:AA:509:C:H5''	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:529:A:OP2	2:AA:529:A:O4'	2.24	0.55
2:AA:533:G:C5	2:AA:534:U:N3	2.74	0.55
2:AA:572:A:C8	2:AA:573:G:C4	2.94	0.55
2:AA:604:G:C2	2:AA:657:U:H4'	2.42	0.55
2:AA:701:G:N3	2:AA:702:G:C8	2.74	0.55
2:AA:716:A:H3'	2:AA:716:A:H8	1.71	0.55
2:AA:684:G:N3	2:AA:775:G:C6	2.74	0.55
1:AB:104:A:C2'	1:AB:105:G:H5'	2.36	0.55
1:AB:110:G:C6	1:AB:111:U:C2	2.93	0.55
3:AC:148:ASN:ND2	3:AC:151:GLU:HB2	2.21	0.55
5:AE:109:ASP:OD1	5:AE:112:LEU:HG	2.05	0.55
5:AE:201:VAL:N	5:AE:266:LYS:CD	2.61	0.55
5:AE:211:GLN:OE1	5:AE:216:ARG:N	2.39	0.55
5:AE:234:ARG:O	5:AE:235:ILE:C	2.42	0.55
2:AA:2051:A:C4'	5:AE:238:LEU:HD23	2.34	0.55
5:AE:66:GLU:O	5:AE:67:THR:CG2	2.48	0.55
5:AE:85:ALA:HB1	5:AE:87:GLU:HG3	1.85	0.55
6:AF:244:ALA:O	6:AF:245:GLU:C	2.45	0.55
6:AF:83:ALA:C	6:AF:84:VAL:CG2	2.75	0.55
7:AG:11:HIS:CD2	7:AG:15:GLU:OE2	2.59	0.55
8:AH:101:LYS:HG2	8:AH:115:GLU:CB	2.36	0.55
8:AH:25:VAL:HG23	8:AH:74:MET:HE1	1.88	0.55
8:AH:18:VAL:CG2	8:AH:44:VAL:HG11	2.35	0.55
8:AH:51:VAL:CG2	8:AH:68:ARG:CG	2.83	0.55
9:AJ:53:GLN:HA	9:AJ:128:LYS:HZ3	1.70	0.55
9:AJ:62:VAL:HA	9:AJ:100:ALA:O	2.07	0.55
12:AM:58:GLU:O	12:AM:59:LYS:C	2.43	0.55
13:AN:65:THR:HA	13:AN:81:GLU:O	2.06	0.55
14:AO:120:LEU:HD12	14:AO:121:ILE:C	2.26	0.55
14:AO:123:ASP:O	14:AO:124:ASP:CG	2.44	0.55
14:AO:73:VAL:HA	14:AO:76:LEU:CB	2.29	0.55
15:AP:45:GLN:HB3	15:AP:152:SER:HB3	1.87	0.55
15:AP:36:ASN:CB	21:AV:114:ASP:O	2.53	0.55
15:AP:28:ILE:CD1	15:AP:89:PRO:CG	2.81	0.55
16:AQ:47:LEU:O	16:AQ:56:ASP:O	2.24	0.55
19:AT:33:SER:OG	19:AT:34:LYS:N	2.39	0.55
21:AV:134:LEU:HD22	21:AV:136:VAL:HG23	1.88	0.55
21:AV:50:GLY:O	21:AV:51:LEU:CB	2.55	0.55
34:BA:1071:C:N4	34:BA:1084:G:H21	2.04	0.55
34:BA:1161:C:H2'	34:BA:1162:C:C6	2.40	0.55
34:BA:1305:G:H5'	56:BX:4:GLY:CA	2.34	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1315:U:C5	34:BA:1316:G:C6	2.93	0.55
34:BA:1329:A:H5''	48:BP:29:ARG:CG	2.31	0.55
34:BA:145:G:N1	34:BA:178:C:C5	2.74	0.55
34:BA:295:C:C2	34:BA:296:U:C6	2.94	0.55
34:BA:329:A:C5	34:BA:332:G:C6	2.94	0.55
34:BA:607:A:O2'	34:BA:608:A:H5'	2.06	0.55
34:BA:682:G:C6	34:BA:683:G:N7	2.74	0.55
34:BA:718:G:C8	34:BA:719:C:C5	2.94	0.55
34:BA:577:G:N1	34:BA:765:G:C2	2.74	0.55
34:BA:855:G:O2'	34:BA:856:C:H5'	2.07	0.55
34:BA:909:A:N3	34:BA:910:C:O4'	2.40	0.55
34:BA:934:C:C5	34:BA:1344:C:C6	2.94	0.55
34:BA:942:G:C2	34:BA:943:U:C6	2.94	0.55
34:BA:959:A:H1'	34:BA:985:C:H1'	1.87	0.55
35:BB:50:U:N3	35:BB:65:G:N1	2.54	0.55
35:BB:7:U:H5'	35:BB:8:U:OP2	2.06	0.55
35:BC:44:A:N3	35:BC:44:A:H2'	2.19	0.55
37:BE:167:PRO:CG	37:BE:192:SER:HB3	2.36	0.55
37:BE:102:LEU:HB2	37:BE:176:GLU:CD	2.26	0.55
38:BF:139:GLN:HE21	38:BF:139:GLN:CA	2.04	0.55
39:BG:8:VAL:CG1	39:BG:11:LEU:CD1	2.75	0.55
39:BG:132:ARG:HH11	39:BG:132:ARG:CG	2.18	0.55
43:BK:69:ARG:HG2	43:BK:74:PRO:O	2.06	0.55
44:BL:3:GLN:HB2	44:BL:20:ARG:HG2	1.87	0.55
47:BO:43:VAL:CG1	47:BO:44:THR:N	2.69	0.55
47:BO:88:GLY:H	47:BO:98:TYR:HA	1.71	0.55
49:BQ:48:ALA:O	49:BQ:49:HIS:C	2.42	0.55
50:BR:33:THR:CG2	50:BR:63:ARG:NH1	2.59	0.55
55:BW:16:HIS:O	55:BW:17:ARG:C	2.43	0.55
48:BP:120:LYS:HG2	48:BP:121:LYS:H	1.71	0.55
10:AK:109:LYS:N	10:AK:109:LYS:HE2	2.20	0.55
10:AK:114:LYS:O	10:AK:115:ILE:O	2.23	0.55
2:AA:1509:C:OP1	2:AA:1510:A:H5''	2.06	0.55
36:B1:36:A:C4	36:B1:37:C:H1'	2.41	0.55
34:BA:806:C:N4	34:BA:807:A:H62	2.04	0.55
24:A0:28:LEU:C	24:A0:28:LEU:CD1	2.74	0.55
2:AA:1162:G:O2'	26:A2:23:GLU:HB2	2.06	0.55
2:AA:814:C:OP2	26:A2:84:THR:HG22	2.05	0.55
28:A4:67:TYR:C	28:A4:68:ARG:CG	2.74	0.55
29:A5:43:HIS:C	29:A5:44:HIS:HD1	2.10	0.55
29:A5:40:LYS:HZ3	29:A5:46:CYS:HB2	1.68	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:A8:26:LYS:HG3	32:A8:45:GLY:C	2.27	0.55
2:AA:1165:U:C2'	2:AA:1166:C:H6	2.18	0.55
2:AA:1287:A:H8	24:A0:104:ARG:HG2	1.71	0.55
2:AA:1423:G:C2	2:AA:1424:G:C4	2.94	0.55
2:AA:1499:C:O2'	2:AA:1500:G:H5'	2.07	0.55
2:AA:150:C:C4	2:AA:151:C:C5	2.94	0.55
2:AA:1608:A:H2'	2:AA:1611:C:H41	1.71	0.55
2:AA:155:C:O2'	2:AA:161:U:OP1	2.25	0.55
2:AA:1693:U:O4	2:AA:1977:A:C5	2.58	0.55
2:AA:1717:G:C5	2:AA:1743:G:C6	2.94	0.55
2:AA:1781:C:H5'	2:AA:1782:C:P	2.47	0.55
2:AA:1789:A:OP2	2:AA:1828:G:O6	2.23	0.55
2:AA:1807:G:C1'	2:AA:1811:G:H22	2.19	0.55
2:AA:1829:A:H5''	2:AA:1830:C:H5	1.71	0.55
2:AA:1832:C:C4	2:AA:1833:U:C4	2.94	0.55
2:AA:1859:A:C8	2:AA:1859:A:H3'	2.41	0.55
2:AA:414:C:H1'	2:AA:1864:U:C1'	2.36	0.55
2:AA:18:C:H4'	25:A1:23:GLY:O	2.06	0.55
2:AA:1991:U:C2'	2:AA:1992:G:H5''	2.28	0.55
2:AA:2179:C:H3'	2:AA:2180:U:C5	2.42	0.55
2:AA:218:A:C8	2:AA:219:G:C8	2.94	0.55
2:AA:2206:C:C2'	2:AA:2207:C:H5'	2.37	0.55
2:AA:2349:G:C3'	2:AA:2350:C:H5''	2.35	0.55
2:AA:2509:G:C2'	2:AA:2510:C:C5'	2.82	0.55
2:AA:2592:G:N7	2:AA:2593:U:C5	2.75	0.55
2:AA:2605:U:O2	2:AA:2606:C:H5	1.88	0.55
2:AA:2607:G:C2'	2:AA:2608:G:C5'	2.79	0.55
2:AA:2631:G:N2	2:AA:2632:A:H1'	2.21	0.55
2:AA:1754:C:C2	2:AA:2717:G:H5'	2.41	0.55
2:AA:278:A:C6	2:AA:362:U:O4	2.59	0.55
2:AA:33:U:H2'	2:AA:34:C:OP2	2.07	0.55
2:AA:16:G:O6	2:AA:525:U:C4	2.60	0.55
2:AA:530:G:HO2'	2:AA:531:C:C5'	2.14	0.55
2:AA:593:G:O2'	2:AA:594:U:H5'	2.06	0.55
2:AA:629:G:O2'	2:AA:630:G:H5'	2.05	0.55
2:AA:783:A:H2'	2:AA:784:A:O5'	2.05	0.55
2:AA:881:G:C4	2:AA:882:G:C8	2.94	0.55
2:AA:664:C:H1'	2:AA:940:G:OP1	2.06	0.55
2:AA:954:G:OP2	15:AP:10:ILE:HG22	2.06	0.55
2:AA:987:G:C8	2:AA:987:G:H3'	2.42	0.55
1:AB:5:C:C2	1:AB:6:C:C5	2.94	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:85:ASN:CG	4:AD:86:ARG:CZ	2.75	0.55
5:AE:269:ILE:CA	5:AE:297:LYS:HZ3	2.09	0.55
6:AF:1:MET:H3	6:AF:18:LEU:CD1	2.17	0.55
6:AF:232:LEU:C	6:AF:233:THR:CG2	2.74	0.55
7:AG:128:LEU:O	7:AG:129:ASP:CB	2.54	0.55
2:AA:2305:A:N3	7:AG:129:ASP:OD1	2.38	0.55
7:AG:81:GLU:O	7:AG:85:GLN:HG2	2.06	0.55
8:AH:102:LEU:CD1	8:AH:114:ILE:HB	2.35	0.55
8:AH:163:TYR:O	8:AH:166:GLU:OE1	2.24	0.55
8:AH:16:VAL:O	8:AH:16:VAL:HG12	2.06	0.55
8:AH:52:THR:O	8:AH:53:ARG:HD3	2.06	0.55
8:AH:84:LYS:HE3	8:AH:141:GLY:HA2	1.88	0.55
9:AI:62:VAL:HG22	9:AI:101:VAL:CA	2.35	0.55
12:AM:54:VAL:CG1	12:AM:138:THR:OG1	2.54	0.55
13:AN:22:ILE:CD1	13:AN:41:ALA:HA	2.36	0.55
15:AP:41:THR:HB	15:AP:126:VAL:HA	1.87	0.55
15:AP:36:ASN:CB	21:AV:114:ASP:OD1	2.52	0.55
16:AQ:119:GLN:O	16:AQ:120:GLU:C	2.41	0.55
18:AS:19:LEU:HB3	29:A5:25:LEU:CD1	2.37	0.55
2:AA:1614:A:C8	18:AS:88:ARG:HD2	2.40	0.55
20:AU:51:LEU:CA	20:AU:97:ARG:HH21	2.03	0.55
21:AV:103:ARG:NH1	21:AV:137:ASP:O	2.34	0.55
21:AV:70:GLN:CG	21:AV:72:ASP:HB3	2.31	0.55
23:AX:6:VAL:O	23:AX:34:GLU:HA	2.06	0.55
34:BA:1007:C:C4	34:BA:1022:G:N2	2.74	0.55
34:BA:1047:G:C2'	34:BA:1048:G:H5'	2.35	0.55
34:BA:1049:U:O2'	34:BA:1050:G:OP2	2.23	0.55
34:BA:1084:G:H5'	34:BA:1102:A:OP2	2.06	0.55
34:BA:1160:G:O6	34:BA:1181:G:O6	2.24	0.55
34:BA:1301:U:C4	34:BA:1303:C:H1'	2.41	0.55
34:BA:130:A:H4'	34:BA:190(F):G:N3	2.20	0.55
34:BA:1412:C:C2'	34:BA:1413:A:H8	2.19	0.55
34:BA:1451:A:C8	34:BA:1451:A:C3'	2.90	0.55
34:BA:1516:G:N2	34:BA:1518:A:OP2	2.38	0.55
34:BA:22:G:H2'	34:BA:23:C:H6	1.57	0.55
34:BA:264:U:O2'	52:BT:63:ARG:HG2	2.06	0.55
34:BA:296:U:C5	34:BA:297:G:N7	2.75	0.55
34:BA:313:A:C4	34:BA:314:C:C5	2.94	0.55
34:BA:426:G:H4'	39:BG:41:GLY:O	2.07	0.55
34:BA:405:U:H5'	34:BA:496:A:H2	1.71	0.55
34:BA:519:C:OP2	47:BO:50:SER:O	2.24	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:538:G:H5'	47:BO:114:LYS:HD3	1.88	0.55
34:BA:545:C:C2'	34:BA:546:G:H5'	2.34	0.55
34:BA:558:G:O5'	34:BA:559:A:H3'	2.06	0.55
34:BA:61:G:C8	34:BA:62:U:C5	2.94	0.55
34:BA:787:A:H2'	34:BA:788:U:O5'	2.06	0.55
34:BA:92:C:O2'	34:BA:93:G:C5'	2.52	0.55
34:BA:97:G:H2'	34:BA:98:U:C6	2.41	0.55
35:BB:19:G:HO2'	35:BB:20:G:P	2.23	0.55
35:BB:34:G:N1	35:BB:35:A:N1	2.52	0.55
35:BC:20:G:H21	35:BC:21:A:C4'	2.20	0.55
37:BE:18:GLY:HA3	37:BE:41:ILE:HG13	1.87	0.55
38:BF:30:ARG:HG3	38:BF:31:HIS:H	1.70	0.55
38:BF:89:GLU:O	38:BF:90:GLU:C	2.44	0.55
38:BF:91:LEU:CD2	38:BF:92:ALA:N	2.68	0.55
39:BG:106:TYR:CD1	39:BG:111:ALA:O	2.59	0.55
39:BG:18:LYS:CG	39:BG:33:MET:SD	2.92	0.55
39:BG:206:PHE:HD2	39:BG:207:TYR:CD1	2.25	0.55
40:BH:76:ILE:HG21	40:BH:142:LEU:HD21	1.86	0.55
41:BI:80:ARG:N	41:BI:88:VAL:HG21	2.21	0.55
43:BK:24:THR:H	43:BK:60:ARG:HD2	1.72	0.55
45:BM:28:ARG:CZ	45:BM:33:GLN:O	2.55	0.55
46:BN:23:ALA:HB3	46:BN:88:GLY:HA3	1.88	0.55
46:BN:66:LEU:O	46:BN:67:ASP:C	2.44	0.55
47:BO:28:LYS:CG	47:BO:33:ARG:HH12	2.20	0.55
50:BR:3:ILE:HG23	50:BR:38:ARG:NE	2.22	0.55
53:BU:72:ARG:HA	53:BU:75:ILE:HD13	1.89	0.55
55:BW:12:ALA:H	55:BW:13:LEU:CD1	2.17	0.55
55:BW:33:ILE:HG21	55:BW:63:ILE:HG13	1.87	0.55
10:AK:114:LYS:NZ	10:AK:133:LEU:CD2	2.69	0.55
39:BG:187:ARG:HH21	39:BG:188:LEU:HD11	1.71	0.55
24:A0:38:VAL:CB	24:A0:39:PRO:CD	2.78	0.55
25:A1:104:GLU:O	25:A1:107:LYS:N	2.39	0.55
25:A1:33:ARG:C	25:A1:35:ALA:H	2.09	0.55
25:A1:84:LYS:HE3	25:A1:92:ARG:NH2	2.22	0.55
25:A1:88:ILE:N	25:A1:88:ILE:HD13	2.22	0.55
26:A2:22:VAL:CG1	26:A2:23:GLU:N	2.68	0.55
26:A2:11:GLN:NE2	26:A2:22:VAL:HG23	2.22	0.55
2:AA:2285:C:OP2	30:A6:30:ASN:ND2	2.37	0.55
2:AA:249:C:O2'	32:A8:8:LYS:HE3	2.06	0.55
2:AA:1058:G:C6	2:AA:1081:U:C2	2.94	0.55
2:AA:1000:A:C2	2:AA:1155:A:C4	2.94	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1314:C:H2'	2:AA:1315:C:H6	1.71	0.55
2:AA:1340:U:C2	2:AA:1602:U:C5	2.94	0.55
2:AA:1356:G:O2'	2:AA:1357:U:C5'	2.55	0.55
2:AA:1422:G:O6	2:AA:1576:U:O4	2.25	0.55
2:AA:1472:A:H2	2:AA:1519:G:H1	1.54	0.55
2:AA:1540:G:H2'	2:AA:1541:U:O5'	2.06	0.55
2:AA:1549:C:O2'	2:AA:1550:C:H5'	2.07	0.55
2:AA:1560:G:C2'	2:AA:1561:G:O5'	2.54	0.55
2:AA:1609:A:N6	2:AA:1616:A:H2	2.05	0.55
2:AA:1648:C:H2'	2:AA:1649:G:C8	2.41	0.55
2:AA:1665:A:C2	2:AA:1666:G:N9	2.75	0.55
2:AA:1699:G:O6	2:AA:1763:G:C4	2.60	0.55
2:AA:152:G:O6	2:AA:175:G:N1	2.37	0.55
2:AA:1958:C:O2'	2:AA:1959:G:C5'	2.53	0.55
2:AA:2069:G:C2	2:AA:2070:G:C8	2.95	0.55
2:AA:2183:C:C4	2:AA:2184:G:N7	2.74	0.55
2:AA:2190:G:H2'	2:AA:2191:G:H8	1.70	0.55
2:AA:2199:A:N3	2:AA:2225:A:C2	2.74	0.55
2:AA:2255:G:C2	2:AA:2256:G:C1'	2.87	0.55
2:AA:2280:G:N1	2:AA:2281:C:C4	2.74	0.55
2:AA:2328:A:N6	2:AA:2329:G:O6	2.39	0.55
2:AA:2350:C:C2'	2:AA:2351:G:O5'	2.54	0.55
2:AA:2359:C:C2	2:AA:2360:A:C2	2.94	0.55
2:AA:245:G:O2'	2:AA:246:C:C5'	2.53	0.55
2:AA:2491:U:O2'	2:AA:2492:U:C5'	2.53	0.55
2:AA:2448:A:OP1	2:AA:2499:C:OP1	2.25	0.55
2:AA:1669:A:O3'	2:AA:2550:G:P	2.64	0.55
2:AA:2515:C:N4	2:AA:2569:G:N1	1.91	0.55
2:AA:2646:C:C2'	2:AA:2647:U:H5'	2.36	0.55
2:AA:2674:G:C5	2:AA:2675:A:N7	2.75	0.55
2:AA:270(S):G:N3	2:AA:270(T):G:N7	2.54	0.55
2:AA:272:G:N2	2:AA:366:C:C5	2.75	0.55
2:AA:2758:A:H2'	2:AA:2759:G:O5'	2.06	0.55
2:AA:2862:G:C2'	2:AA:2863:C:C6	2.79	0.55
2:AA:322:A:O2'	2:AA:340:A:H2'	2.05	0.55
2:AA:430:G:H8	2:AA:430:G:O5'	1.89	0.55
2:AA:49:A:H2	2:AA:118:A:N7	2.03	0.55
2:AA:513:A:C2	2:AA:514:A:C8	2.94	0.55
2:AA:552:G:C5	2:AA:553:U:C4	2.95	0.55
2:AA:552:G:H2'	2:AA:553:U:H6	1.72	0.55
2:AA:603:A:N6	2:AA:624:C:H42	2.04	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:625:G:C2'	2:AA:626:U:H5'	2.36	0.55
2:AA:729:G:H8	2:AA:764:A:P	2.29	0.55
2:AA:84:A:H5'	2:AA:85:G:OP1	2.05	0.55
2:AA:979:G:C5	2:AA:981:A:OP2	2.59	0.55
1:AB:79:C:N4	1:AB:97:G:H1	2.01	0.55
3:AC:100:ILE:C	3:AC:126:LYS:HD3	2.27	0.55
3:AC:126:LYS:CG	3:AC:127:LEU:HG	2.33	0.55
3:AC:139:ASN:HB3	3:AC:162:GLU:OE1	2.05	0.55
3:AC:172:HIS:O	3:AC:173:ALA:HB2	2.06	0.55
3:AC:99:ILE:HG23	3:AC:107:TRP:CH2	2.39	0.55
4:AD:157:ALA:C	4:AD:194:VAL:HG11	2.26	0.55
4:AD:210:LYS:CA	4:AD:213:LYS:HD3	2.37	0.55
4:AD:222:PRO:C	4:AD:224:VAL:N	2.47	0.55
5:AE:198:TYR:HD2	5:AE:265:ASN:CA	2.18	0.55
5:AE:216:ARG:NH1	5:AE:253:GLN:CB	2.64	0.55
6:AF:213:ALA:CB	6:AF:218:VAL:CG1	2.85	0.55
8:AH:148:ARG:HD3	8:AH:163:TYR:CD2	2.40	0.55
8:AH:10:ILE:HD13	8:AH:16:VAL:HG21	1.86	0.55
2:AA:1085:A:OP1	9:AI:34:ALA:C	2.45	0.55
9:AI:22:VAL:HA	9:AI:38:ALA:HB1	1.87	0.55
12:AM:29:GLN:O	12:AM:30:ALA:C	2.44	0.55
13:AN:28:SER:O	13:AN:30:ARG:N	2.39	0.55
14:AO:52:LYS:CE	14:AO:53:ARG:NH1	2.70	0.55
14:AO:55:GLN:CG	14:AO:56:LYS:N	2.65	0.55
15:AP:64:ALA:HB1	15:AP:142:LYS:CG	2.36	0.55
15:AP:47:GLU:OE2	15:AP:152:SER:CB	2.51	0.55
15:AP:46:VAL:CG2	15:AP:156:ASN:ND2	2.66	0.55
15:AP:57:ARG:HB2	15:AP:61:LEU:HD21	1.87	0.55
15:AP:84:ARG:CZ	15:AP:86:ARG:HH21	2.19	0.55
16:AQ:34:LEU:HD23	16:AQ:100:ALA:HB1	1.86	0.55
16:AQ:17:ARG:CZ	16:AQ:106:LEU:CD2	2.84	0.55
17:AR:4:ARG:O	17:AR:5:GLU:HG3	2.06	0.55
17:AR:9:CYS:C	17:AR:11:THR:N	2.56	0.55
18:AS:24:ILE:CD1	18:AS:36:LEU:HD11	2.37	0.55
18:AS:75:TYR:O	18:AS:104:THR:OG1	2.25	0.55
19:AT:32:ALA:CB	19:AT:36:GLU:HB2	2.36	0.55
20:AU:90:PRO:C	20:AU:91:LEU:HD23	2.25	0.55
21:AV:116:VAL:CA	21:AV:169:VAL:HG22	2.37	0.55
23:AX:23:LEU:HD21	23:AX:50:VAL:HG11	1.88	0.55
23:AX:42:ALA:HB3	23:AX:43:ILE:HD12	1.89	0.55
23:AX:45:GLY:O	23:AX:46:ASN:C	2.45	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1286:A:H2'	34:BA:1287:A:O5'	2.07	0.55
34:BA:1296:C:H3'	34:BA:1297:C:C5	2.40	0.55
34:BA:1305:G:OP1	56:BX:2:GLY:N	2.39	0.55
34:BA:1308:U:C2	34:BA:1309:G:C8	2.94	0.55
34:BA:1321:C:N4	54:BV:37:ARG:NH1	2.54	0.55
34:BA:1305:G:H22	34:BA:1331:G:H2'	1.71	0.55
34:BA:1376:U:H2'	34:BA:1377:A:C8	2.42	0.55
34:BA:1464:G:H2'	34:BA:1465:C:H6	1.72	0.55
34:BA:1530:G:N2	34:BA:1531:A:C2	2.74	0.55
34:BA:410:G:H1'	34:BA:432:A:N6	2.17	0.55
34:BA:587:G:C6	34:BA:755:G:C6	2.94	0.55
34:BA:592:G:H2'	34:BA:593:G:H5'	1.89	0.55
34:BA:74:C:H2'	34:BA:75:G:H8	1.70	0.55
34:BA:890:G:C2	34:BA:906:G:N7	2.74	0.55
34:BA:923:A:OP1	40:BH:21:ALA:CB	2.52	0.55
34:BA:923:A:H2'	34:BA:924:C:O4'	2.07	0.55
34:BA:932:C:H5''	42:BJ:3:ARG:CD	2.31	0.55
34:BA:962:C:C2'	34:BA:963:G:H5'	2.37	0.55
35:BB:15:G:O6	35:BB:48:C:O2	2.24	0.55
35:BC:69:U:O2'	35:BC:70:C:C5'	2.53	0.55
37:BE:91:PRO:CG	37:BE:154:LEU:HB3	2.35	0.55
37:BE:70:PHE:CE2	37:BE:163:PHE:CB	2.88	0.55
37:BE:21:ARG:N	37:BE:21:ARG:CD	2.59	0.55
37:BE:88:ALA:CA	37:BE:222:ILE:CD1	2.83	0.55
37:BE:21:ARG:O	37:BE:23:ARG:N	2.40	0.55
38:BF:125:GLU:HA	38:BF:125:GLU:OE2	2.06	0.55
40:BH:9:LYS:HB2	40:BH:33:VAL:HB	1.86	0.55
40:BH:42:GLY:N	40:BH:66:MET:HE3	2.21	0.55
41:BI:10:LEU:HD11	41:BI:61:LEU:HD12	1.89	0.55
41:BI:62:TRP:CZ2	41:BI:64:GLN:HB2	2.41	0.55
42:BJ:6:ARG:O	42:BJ:6:ARG:HG2	2.06	0.55
43:BK:26:VAL:N	43:BK:58:TYR:CE2	2.75	0.55
43:BK:24:THR:O	43:BK:60:ARG:CB	2.54	0.55
43:BK:78:GLN:OE1	43:BK:78:GLN:HA	2.07	0.55
34:BA:1342:C:H4'	44:BL:125:TYR:CD1	2.41	0.55
45:BM:56:HIS:C	45:BM:58:ASP:H	2.09	0.55
47:BO:113:ARG:NH1	47:BO:115:LYS:HB2	2.22	0.55
47:BO:79:GLU:HB3	47:BO:80:HIS:ND1	2.20	0.55
50:BR:15:PHE:O	50:BR:16:ALA:C	2.44	0.55
10:AK:114:LYS:HE2	10:AK:133:LEU:CA	2.34	0.55
3:AC:177:LYS:HB2	3:AC:180:PHE:H	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:276:A:H2'	2:AA:276:A:N3	2.21	0.55
24:A0:45:ARG:HD3	24:A0:97:VAL:HG21	1.87	0.55
26:A2:5:ILE:O	26:A2:6:GLN:CB	2.54	0.55
2:AA:856:C:H5'	27:A3:25:LYS:CE	2.36	0.55
30:A6:42:PRO:HB2	30:A6:44:ALA:H	1.71	0.55
2:AA:1012:U:H2'	2:AA:1142:U:C5	2.40	0.55
2:AA:1124:C:N4	2:AA:1125:G:C6	2.75	0.55
2:AA:1163:G:C5'	26:A2:23:GLU:OE2	2.55	0.55
2:AA:1222:C:H2'	2:AA:1223:C:C5'	2.36	0.55
2:AA:1195:G:C1'	2:AA:1226:G:H22	2.19	0.55
2:AA:1252:G:H3'	2:AA:1253:A:C1'	2.37	0.55
2:AA:1263:U:H5'	2:AA:1264:G:OP2	2.06	0.55
2:AA:1312:U:C1'	2:AA:1313:U:C5	2.90	0.55
2:AA:146:G:N2	2:AA:147:U:H1'	2.21	0.55
2:AA:1529:A:C2'	2:AA:1530:G:H5'	2.35	0.55
2:AA:1540:G:C2	2:AA:1541:U:H1'	2.42	0.55
2:AA:1552:G:C5'	2:AA:1553:A:OP1	2.53	0.55
2:AA:1617:C:C5'	2:AA:1618:A:OP2	2.42	0.55
2:AA:1709:U:H3'	2:AA:1709:U:H6	1.72	0.55
2:AA:1749:A:C2'	2:AA:1750:G:H5'	2.36	0.55
2:AA:1773:A:OP1	2:AA:1828:G:H3'	2.05	0.55
2:AA:1796:U:H2'	2:AA:1797:C:C6	2.41	0.55
2:AA:179:G:C4	2:AA:180:G:N7	2.74	0.55
2:AA:1939:U:O4'	2:AA:2592:G:C4'	2.54	0.55
2:AA:1992:G:O6	2:AA:1997:G:C2	2.59	0.55
2:AA:19:C:N3	2:AA:20:C:C5	2.75	0.55
2:AA:2034:U:H2'	2:AA:2034:U:O2	2.05	0.55
2:AA:2081:C:C2	2:AA:2082:A:C8	2.94	0.55
2:AA:185:U:C2	2:AA:212:G:N2	2.74	0.55
2:AA:2139:C:O2	2:AA:2139:C:H2'	2.06	0.55
2:AA:2142:C:O2	2:AA:2142:C:C2'	2.54	0.55
2:AA:2210:G:O6	4:AD:148:GLY:CA	2.55	0.55
2:AA:2287:A:C2	2:AA:2346:A:N7	2.75	0.55
2:AA:2386:C:O2'	2:AA:2387:U:O5'	2.23	0.55
2:AA:2261:C:H1'	2:AA:2388:A:N3	2.21	0.55
2:AA:2400:G:C2	2:AA:2417:C:C2	2.95	0.55
2:AA:242:G:O2'	2:AA:243:U:P	2.64	0.55
2:AA:2525:G:N1	2:AA:2539:C:N4	2.55	0.55
2:AA:2671:A:O2'	2:AA:2672:G:H5'	2.07	0.55
2:AA:270(A):A:H62	2:AA:270(Z):U:C5'	2.06	0.55
2:AA:270(D):C:N3	2:AA:270(E):G:C5	2.74	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2769:C:O2'	2:AA:2770:G:H5'	2.06	0.55
2:AA:2824:C:N3	2:AA:2825:C:H1'	2.22	0.55
2:AA:2817:G:H1	2:AA:2829:C:N4	2.04	0.55
2:AA:285:C:H2'	2:AA:286:C:C6	2.40	0.55
2:AA:479:A:O2'	2:AA:480:A:C3'	2.54	0.55
2:AA:64:A:C8	2:AA:64:A:O5'	2.59	0.55
2:AA:735:A:N6	2:AA:760:G:H22	2.04	0.55
2:AA:751:A:C8	18:AS:90:ARG:NH2	2.74	0.55
2:AA:730:C:OP2	2:AA:761:A:OP1	2.25	0.55
2:AA:819:A:H2'	2:AA:820:A:O5'	2.06	0.55
2:AA:929:G:H1'	23:AX:43:ILE:CG1	2.36	0.55
1:AB:33:G:H1	1:AB:49:C:N4	2.05	0.55
1:AB:49:C:OP1	16:AQ:110:THR:OG1	2.24	0.55
4:AD:158:GLY:HA2	4:AD:194:VAL:HG22	1.88	0.55
5:AE:267:ARG:C	5:AE:297:LYS:HG3	2.26	0.55
6:AF:31:ILE:O	6:AF:35:VAL:HG23	2.05	0.55
7:AG:63:ILE:HG23	7:AG:64:ARG:N	2.20	0.55
7:AG:77:ASP:O	7:AG:80:ALA:HB3	2.06	0.55
8:AH:36:PHE:CD2	8:AH:71:LEU:HD21	2.41	0.55
9:AI:19:ALA:C	9:AJ:46:GLY:HA2	2.27	0.55
11:AL:93:LYS:HD2	21:AV:108:VAL:HG12	1.88	0.55
12:AM:138:THR:OG1	12:AM:139:LEU:HD13	2.06	0.55
12:AM:58:GLU:HA	12:AM:61:VAL:CB	2.24	0.55
13:AN:26:GLY:HA3	13:AN:30:ARG:NE	2.21	0.55
15:AP:45:GLN:CD	15:AP:153:PRO:HB2	2.25	0.55
15:AP:17:ARG:O	15:AP:23:ILE:HG13	2.07	0.55
16:AQ:89:GLY:O	16:AQ:92:ALA:HB3	2.06	0.55
17:AR:45:GLU:CG	17:AR:48:ASN:OD1	2.47	0.55
20:AU:105:ASP:HB2	20:AU:108:ARG:HG3	1.88	0.55
20:AU:112:LEU:HD23	20:AU:112:LEU:N	2.22	0.55
20:AU:16:LEU:O	20:AU:19:ARG:N	2.39	0.55
20:AU:59:GLU:HG3	20:AU:59:GLU:O	2.06	0.55
20:AU:71:VAL:CG2	20:AU:91:LEU:O	2.54	0.55
20:AU:77:VAL:CG1	20:AU:89:ARG:HH11	2.19	0.55
21:AV:125:PRO:CG	21:AV:130:ILE:HG22	2.36	0.55
21:AV:37:LYS:CD	21:AV:41:ARG:HH12	2.19	0.55
21:AV:64:ALA:O	21:AV:65:LEU:CB	2.55	0.55
22:AW:43:PRO:O	22:AW:45:ARG:N	2.40	0.55
23:AX:20:LYS:C	23:AX:23:LEU:HG	2.27	0.55
23:AX:6:VAL:HA	23:AX:55:ARG:O	2.05	0.55
34:BA:106:C:H2'	34:BA:107:G:H8	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1150:U:C4'	34:BA:1280:A:N1	2.70	0.55
34:BA:1053:G:C6	34:BA:1199:U:H2'	2.42	0.55
34:BA:1316:G:C4	34:BA:1318:A:OP2	2.59	0.55
34:BA:934:C:H5	34:BA:1344:C:H3'	1.70	0.55
34:BA:1423:G:O2'	34:BA:1424:C:C5'	2.54	0.55
34:BA:1443:G:C4'	34:BA:1446:A:H5'	2.36	0.55
34:BA:1535:C:N3	36:B1:55:U:C4	2.74	0.55
34:BA:281:G:C2'	34:BA:282:A:OP2	2.55	0.55
34:BA:404:U:H6	34:BA:404:U:O5'	1.90	0.55
34:BA:463:A:H5''	51:BS:75:ARG:HH12	1.72	0.55
34:BA:591:U:O5'	34:BA:591:U:H6	1.89	0.55
34:BA:754:C:H2'	34:BA:755:G:OP1	2.06	0.55
34:BA:814:A:C8	34:BA:816:A:N7	2.75	0.55
35:BB:15:G:N2	35:BB:48:C:H42	2.01	0.55
35:BC:38:A:C2'	35:BC:39:U:H5'	2.32	0.55
37:BE:103:THR:OG1	37:BE:180:LEU:HD11	2.07	0.55
38:BF:48:TYR:HA	38:BF:52:LEU:CD2	2.36	0.55
38:BF:58:GLU:HB2	38:BF:65:ALA:HB3	1.88	0.55
39:BG:133:VAL:HG13	39:BG:135:LEU:HD12	1.88	0.55
39:BG:150:GLU:O	39:BG:152:SER:N	2.39	0.55
39:BG:35:ARG:C	39:BG:37:PRO:HD3	2.26	0.55
39:BG:58:LEU:C	39:BG:58:LEU:HD22	2.26	0.55
39:BG:61:LYS:HG3	39:BG:206:PHE:CD2	2.42	0.55
41:BI:1:MET:HG2	41:BI:68:PRO:HA	1.89	0.55
41:BI:33:TYR:CE2	41:BI:75:LEU:HB2	2.41	0.55
41:BI:78:GLU:O	41:BI:81:ILE:CD1	2.55	0.55
43:BK:122:ARG:O	43:BK:123:GLU:C	2.42	0.55
43:BK:77:GLU:O	43:BK:78:GLN:HG2	2.07	0.55
34:BA:1350:A:OP2	44:BL:118:LYS:HD3	2.05	0.55
44:BL:7:THR:H	44:BL:83:ARG:CG	2.19	0.55
45:BM:38:ILE:HG12	45:BM:72:VAL:H	1.72	0.55
46:BN:58:PRO:O	46:BN:61:ALA:CB	2.48	0.55
47:BO:36:VAL:O	47:BO:58:VAL:CG1	2.47	0.55
47:BO:82:VAL:O	47:BO:83:VAL:HB	2.06	0.55
34:BA:1048:G:H5''	49:BQ:3:ARG:CD	2.37	0.55
50:BR:33:THR:O	50:BR:36:ILE:HG22	2.07	0.55
51:BS:5:ARG:CA	51:BS:6:LEU:HD13	2.36	0.55
53:BU:74:ARG:CA	53:BU:79:LEU:HD21	2.35	0.55
54:BV:11:VAL:HG22	54:BV:39:THR:O	2.06	0.55
55:BW:20:LEU:O	55:BW:24:LEU:HD23	2.06	0.55
10:AK:88:ARG:HE	10:AK:123:ALA:CB	2.18	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:95:SER:OG	10:AK:98:ILE:HB	2.07	0.55
11:AL:52:MET:SD	11:AL:81:LYS:HG2	2.46	0.55
35:BB:21:A:C5	35:BB:46:G:N1	2.75	0.55
55:BW:94:ALA:O	55:BW:95:ALA:HB3	2.06	0.55
24:A0:73:VAL:O	24:A0:74:LYS:C	2.44	0.55
25:A1:8:ILE:HA	25:A1:11:ARG:HH11	1.72	0.55
25:A1:61:TRP:O	25:A1:63:GLN:N	2.40	0.55
25:A1:40:LEU:HD11	26:A2:83:ARG:HE	1.68	0.55
26:A2:65:ARG:HH11	26:A2:94:LYS:HZ2	1.54	0.55
27:A3:48:GLY:N	27:A3:49:GLN:NE2	2.55	0.55
27:A3:33:ALA:HB3	27:A3:66:LYS:O	2.05	0.55
29:A5:12:SER:HB3	29:A5:15:LYS:NZ	2.20	0.55
30:A6:16:ALA:HB2	30:A6:50:PHE:CE2	2.41	0.55
30:A6:36:GLU:C	30:A6:52:GLU:OE1	2.45	0.55
2:AA:594:U:H5''	32:A8:61:MET:CE	2.36	0.55
2:AA:1142:U:C6	2:AA:142(A):A:C5'	2.78	0.55
2:AA:1378:A:H4'	2:AA:1379:A:OP1	2.05	0.55
2:AA:1426:G:H3'	2:AA:1427:A:H8	1.70	0.55
2:AA:1520:U:H3'	2:AA:1521:G:H5''	1.88	0.55
2:AA:1646:C:C3'	2:AA:1647:G:H5'	2.36	0.55
2:AA:1670:C:OP2	2:AA:1671:U:C5	2.59	0.55
2:AA:1670:C:C5	2:AA:1671:U:C5	2.93	0.55
2:AA:1799:G:C4	2:AA:1819:A:N6	2.75	0.55
2:AA:196:A:O2'	2:AA:197:A:P	2.64	0.55
2:AA:206:U:OP2	2:AA:206:U:C5	2.59	0.55
2:AA:2124:G:O5'	3:AC:133:PRO:HB3	2.07	0.55
2:AA:2190:G:C2	2:AA:2191:G:C8	2.94	0.55
2:AA:2212:A:O2'	2:AA:2213:U:C5	2.59	0.55
2:AA:2255:G:C6	2:AA:2256:G:C4	2.94	0.55
2:AA:2423:U:O2'	2:AA:2425:A:H3'	2.06	0.55
2:AA:2469:A:C8	2:AA:2469:A:C5'	2.82	0.55
2:AA:2531:A:C2'	2:AA:2532:G:H5'	2.37	0.55
2:AA:2479:G:OP1	2:AA:2537:U:C4'	2.55	0.55
2:AA:2599:G:C4	2:AA:2600:A:C8	2.94	0.55
2:AA:270(D):C:C2	2:AA:270(E):G:C8	2.95	0.55
2:AA:270(Q):C:N1	2:AA:270(R):G:H8	2.05	0.55
2:AA:2739:U:H2'	2:AA:2740:A:O5'	2.07	0.55
2:AA:2790:A:H5'	2:AA:2791:C:OP1	2.06	0.55
2:AA:66:C:H5'	2:AA:456:C:O2'	2.07	0.55
2:AA:500:G:H2'	2:AA:502:A:OP2	2.06	0.55
2:AA:611:C:C2'	2:AA:616:A:H2	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:623:G:C8	2:AA:624:C:H5	2.25	0.55
2:AA:724:U:O2	2:AA:724:U:C2'	2.52	0.55
2:AA:752:A:C6	2:AA:1781:C:C1'	2.79	0.55
2:AA:852:G:O6	2:AA:926:A:C6	2.60	0.55
2:AA:95:G:H1'	22:AW:42:ASN:HB3	1.89	0.55
2:AA:99:U:O2	2:AA:99:U:H2'	2.06	0.55
1:AB:30:C:O4'	1:AB:58:A:C2	2.60	0.55
1:AB:99:A:C8	1:AB:99:A:H5''	2.41	0.55
4:AD:162:GLN:CD	4:AD:162:GLN:N	2.60	0.55
4:AD:175:LEU:HD21	4:AD:181:ARG:N	2.21	0.55
4:AD:89:ASN:CG	4:AD:199:ARG:HH21	2.10	0.55
4:AD:78:ALA:HA	4:AD:113:MET:SD	2.46	0.55
4:AD:77:VAL:HA	4:AD:93:ILE:CD1	2.37	0.55
5:AE:175:ASP:HA	5:AE:178:LEU:CG	2.32	0.55
5:AE:198:TYR:HA	5:AE:266:LYS:O	2.05	0.55
5:AE:222:ARG:NH2	5:AE:234:ARG:CB	2.65	0.55
2:AA:2514:U:O4'	5:AE:247:ARG:NH1	2.39	0.55
5:AE:263:GLU:C	5:AE:266:LYS:HE3	2.26	0.55
5:AE:201:VAL:CG1	5:AE:310:PHE:O	2.38	0.55
6:AF:206:ASN:C	6:AF:207:LEU:HG	2.27	0.55
6:AF:56:THR:CB	6:AF:57:PRO:CD	2.84	0.55
7:AG:23:VAL:HG12	7:AG:130:VAL:CG1	2.36	0.55
7:AG:69:ILE:CG2	7:AG:69:ILE:O	2.54	0.55
7:AG:71:ALA:O	7:AG:72:LYS:CD	2.53	0.55
7:AG:93:LEU:CB	7:AG:97:GLN:HE22	2.19	0.55
8:AH:86:LEU:CD2	8:AH:148:ARG:HE	2.19	0.55
8:AH:87:GLU:CD	8:AH:162:ARG:HB2	2.27	0.55
9:AI:80:ILE:HG22	9:AI:81:THR:N	2.20	0.55
9:AJ:34:ALA:O	9:AJ:35:ALA:HB2	2.06	0.55
12:AM:69:TYR:HD2	12:AM:71:TYR:CE1	2.25	0.55
14:AO:127:GLU:O	14:AO:128:GLY:C	2.44	0.55
16:AQ:83:LEU:O	16:AQ:84:THR:C	2.43	0.55
17:AR:47:ARG:O	17:AR:48:ASN:OD1	2.25	0.55
18:AS:40:ASN:HD22	18:AS:41:LYS:CG	2.19	0.55
19:AT:55:GLN:HG2	19:AT:56:ASN:H	1.69	0.55
20:AU:44:ALA:HB1	20:AU:65:VAL:CG1	2.37	0.55
20:AU:68:ASP:C	20:AU:70:ALA:N	2.60	0.55
21:AV:70:GLN:O	21:AV:72:ASP:OD2	2.23	0.55
35:BC:36:A:H61	36:B1:60:A:H61	1.54	0.55
34:BA:979:C:OP1	34:BA:1222:G:O6	2.25	0.55
34:BA:124:G:C6	34:BA:125:U:N3	2.74	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1336:C:O2'	34:BA:1337:G:OP2	2.23	0.55
34:BA:1509:C:O2	34:BA:1509:C:H2'	2.04	0.55
34:BA:166:G:C2'	34:BA:167:G:O5'	2.54	0.55
34:BA:67:C:C1'	34:BA:172:A:H1'	2.37	0.55
34:BA:315:A:C2'	34:BA:316:G:OP2	2.54	0.55
34:BA:350:G:N1	34:BA:351:G:N1	2.55	0.55
34:BA:453:A:C2	34:BA:454:C:C2	2.94	0.55
34:BA:495:U:H2'	34:BA:496:A:O5'	2.07	0.55
34:BA:609:A:N3	34:BA:610:G:C1'	2.69	0.55
34:BA:60:A:N1	34:BA:107:G:O2'	2.27	0.55
34:BA:698:G:O2'	34:BA:699:C:C5'	2.54	0.55
34:BA:714:G:N3	34:BA:777:A:C8	2.75	0.55
34:BA:761:G:C5'	52:BT:103:GLY:N	2.69	0.55
34:BA:897:C:O2	34:BA:903:G:C2	2.59	0.55
34:BA:972:C:H2'	34:BA:973:G:H8	1.71	0.55
37:BE:87:ARG:O	37:BE:89:GLY:N	2.39	0.55
37:BE:70:PHE:HD1	37:BE:90:MET:HB2	1.70	0.55
38:BF:12:LEU:HD22	38:BF:16:ARG:O	2.07	0.55
38:BF:29:TYR:HE2	38:BF:33:LEU:CD1	2.20	0.55
39:BG:128:VAL:HB	39:BG:132:ARG:HA	1.88	0.55
39:BG:153:ARG:HA	39:BG:158:ILE:HG21	1.87	0.55
39:BG:19:LEU:H	39:BG:33:MET:CE	2.19	0.55
40:BH:51:VAL:O	40:BH:52:PRO:C	2.43	0.55
42:BJ:111:ARG:CZ	42:BJ:122:HIS:CB	2.85	0.55
43:BK:6:ILE:CD1	43:BK:85:ARG:CD	2.78	0.55
34:BA:716:A:H1'	46:BN:118:GLY:HA2	1.89	0.55
47:BO:101:VAL:O	47:BO:104:VAL:HB	2.06	0.55
48:BP:24:GLY:HA3	48:BP:66:LEU:CG	2.36	0.55
50:BR:87:ILE:CD1	50:BR:87:ILE:N	2.69	0.55
34:BA:393:A:OP2	51:BS:12:LYS:HD3	2.07	0.55
34:BA:463:A:C1'	51:BS:82:GLN:HE21	2.14	0.55
52:BT:11:VAL:HG22	52:BT:20:THR:HB	1.88	0.55
53:BU:63:GLN:CA	53:BU:66:LEU:HD21	2.35	0.55
53:BU:74:ARG:HA	53:BU:79:LEU:HD22	1.88	0.55
55:BW:100:ILE:C	55:BW:102:GLY:H	2.06	0.55
55:BW:36:LEU:O	55:BW:39:LYS:HB3	2.06	0.55
55:BW:46:GLU:HB2	55:BW:48:LYS:CE	2.36	0.55
55:BW:53:LEU:HA	55:BW:56:MET:HG3	1.87	0.55
55:BW:59:ALA:O	55:BW:60:GLU:C	2.45	0.55
36:B1:14:U:H2'	36:B1:15:A:O4'	2.06	0.55
21:AV:25:ASN:O	21:AV:26:LYS:O	2.25	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:A0:44:LEU:HD11	24:A0:48:VAL:HG21	1.86	0.55
24:A0:75:LEU:O	24:A0:76:VAL:C	2.45	0.55
30:A6:5:GLY:C	30:A6:7:ARG:N	2.55	0.55
2:AA:1128:A:OP2	2:AA:1128:A:O4'	2.23	0.55
2:AA:1168:G:H2'	2:AA:1169:G:H5'	1.88	0.55
2:AA:1227:A:P	25:A1:16:LYS:HE2	2.47	0.55
2:AA:1534:G:H21	2:AA:1536:A:C1'	2.20	0.55
2:AA:1614:A:H61	18:AS:88:ARG:N	2.04	0.55
2:AA:1657:C:C4	2:AA:1658:C:H5	2.24	0.55
2:AA:1743:G:H2'	2:AA:1746:G:O4'	2.06	0.55
2:AA:1753:G:C8	2:AA:1753:G:C3'	2.89	0.55
2:AA:1805:U:OP2	2:AA:1805:U:H3'	2.05	0.55
2:AA:1799:G:N2	2:AA:1819:A:OP2	2.39	0.55
2:AA:188:G:C2'	2:AA:189:G:H5'	2.37	0.55
2:AA:18:C:H6	2:AA:18:C:O5'	1.89	0.55
2:AA:1909:C:O2'	2:AA:1910:G:H5'	2.07	0.55
2:AA:1942:C:P	2:AA:1942:C:H3'	2.46	0.55
2:AA:1964:G:N1	2:AA:1967:C:C5	2.75	0.55
2:AA:2096:U:C2	2:AA:2097:C:C5	2.95	0.55
2:AA:2133:G:N3	2:AA:2133:G:H3'	2.22	0.55
2:AA:2187:G:H2'	2:AA:2188:C:C6	2.42	0.55
2:AA:2332:U:C1'	2:AA:2336:A:N6	2.69	0.55
2:AA:2458:G:O2'	2:AA:2459:A:C8	2.60	0.55
2:AA:2468:G:C8	2:AA:2476:A:N1	2.75	0.55
2:AA:2558:C:C2	2:AA:2559:C:C5	2.94	0.55
2:AA:2627:G:C2	2:AA:2628:C:C2	2.94	0.55
2:AA:2633:G:N1	2:AA:2634:G:C5	2.74	0.55
2:AA:2691:C:N4	2:AA:2719:G:N2	2.55	0.55
2:AA:270(E):G:N2	2:AA:270(U):C:C2	2.65	0.55
2:AA:2850:A:C6	2:AA:2869:G:H5'	2.41	0.55
2:AA:2892:A:C2'	2:AA:2893:G:C8	2.90	0.55
2:AA:302:C:C2	2:AA:303:U:C5	2.95	0.55
2:AA:410:G:O5'	2:AA:410:G:H8	1.89	0.55
2:AA:441:U:H5	20:AU:3:GLN:NE2	2.04	0.55
2:AA:533:G:H2'	2:AA:534:U:O4'	2.07	0.55
2:AA:552:G:C6	2:AA:553:U:C4	2.95	0.55
2:AA:564:C:H5	2:AA:573:G:OP1	1.89	0.55
2:AA:619:G:H3'	2:AA:619:G:C8	2.41	0.55
2:AA:675:A:N6	2:AA:804:A:C4	2.74	0.55
2:AA:743:G:O2'	2:AA:744:G:C5'	2.54	0.55
2:AA:823:G:C4	2:AA:824:A:N7	2.75	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:66:C:N3	2:AA:88:G:O6	2.40	0.55
2:AA:8:A:N3	2:AA:9:U:C6	2.74	0.55
2:AA:979:G:N2	2:AA:985:C:C4	2.74	0.55
2:AA:996:A:N3	2:AA:997:G:C8	2.75	0.55
4:AD:131:LEU:HB2	4:AD:171:VAL:HG21	1.88	0.55
4:AD:131:LEU:HD11	4:AD:183:ILE:CG2	2.36	0.55
4:AD:198:GLY:O	4:AD:200:THR:N	2.38	0.55
4:AD:84:PRO:C	4:AD:85:ASN:ND2	2.58	0.55
5:AE:212:GLY:O	5:AE:214:VAL:N	2.40	0.55
2:AA:2052:G:C5'	5:AE:239:GLY:H	2.13	0.55
2:AA:2730:C:O3'	5:AE:265:ASN:ND2	2.40	0.55
2:AA:2734:A:N6	5:AE:316:ARG:NH1	2.55	0.55
7:AG:105:SER:O	7:AG:106:PHE:CG	2.59	0.55
7:AG:136:ARG:HH11	7:AG:136:ARG:HG2	1.70	0.55
1:AB:42:C:H5'	7:AG:48:MET:HB2	1.88	0.55
9:AI:34:ALA:O	9:AI:35:ALA:HB2	2.06	0.55
10:AK:13:GLY:O	10:AK:17:GLU:OE2	2.25	0.55
11:AL:56:VAL:HG22	11:AL:70:ILE:HA	1.87	0.55
2:AA:1078:U:P	11:AL:93:LYS:HG3	2.47	0.55
12:AM:63:ILE:O	12:AM:69:TYR:O	2.24	0.55
12:AM:97:ALA:O	12:AM:100:SER:N	2.39	0.55
2:AA:1996:C:OP2	13:AN:31:ARG:NH2	2.39	0.55
14:AO:94:ARG:CG	14:AO:120:LEU:HD22	2.36	0.55
15:AP:133:GLU:OE1	15:AP:134:PHE:HA	2.07	0.55
15:AP:26:LYS:HG3	15:AP:28:ILE:CD1	2.37	0.55
17:AR:44:ARG:HG3	17:AR:45:GLU:H	1.71	0.55
21:AV:69:VAL:HG13	21:AV:81:VAL:HG13	1.87	0.55
21:AV:70:GLN:HG3	21:AV:72:ASP:CB	2.32	0.55
22:AW:46:ILE:H	22:AW:46:ILE:HD13	1.72	0.55
22:AW:62:GLU:O	22:AW:63:GLU:C	2.44	0.55
34:BA:1122:U:O2'	34:BA:1123:A:H5'	2.07	0.55
34:BA:1308:U:O2	34:BA:1309:G:C8	2.59	0.55
34:BA:135:C:C5	34:BA:136:C:H5	2.25	0.55
34:BA:1418:A:N1	34:BA:1483:A:C5	2.75	0.55
34:BA:194:C:O2'	34:BA:195:A:H5''	2.06	0.55
34:BA:204:U:H4'	34:BA:216:G:OP1	2.07	0.55
34:BA:236:G:H3'	34:BA:237:C:C6	2.42	0.55
34:BA:483:C:H3'	34:BA:483:C:H6	1.72	0.55
34:BA:555:C:C2'	34:BA:555:C:O2	2.53	0.55
34:BA:790:A:C5	34:BA:791:G:C5	2.95	0.55
34:BA:771:G:C6	34:BA:809:G:C6	2.95	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:817:C:O2	34:BA:817:C:H2'	2.05	0.55
34:BA:823:G:H2'	34:BA:824:C:C6	2.42	0.55
34:BA:900:A:H2'	34:BA:901:A:C8	2.41	0.55
34:BA:962:C:C4	34:BA:963:G:C8	2.94	0.55
34:BA:518:C:H42	35:BB:34:G:H21	1.52	0.55
35:BB:4:G:C4	35:BB:5:A:C8	2.95	0.55
35:BB:64:A:C4	35:BB:65:G:C8	2.95	0.55
35:BC:36:A:C2	35:BC:37:G:C4	2.94	0.55
37:BE:101:MET:CA	37:BE:108:ILE:HG13	2.29	0.55
37:BE:153:ARG:O	37:BE:154:LEU:C	2.44	0.55
34:BA:841:U:H3	37:BE:37:ASN:HD22	1.52	0.55
38:BF:157:ILE:C	38:BF:159:GLY:N	2.60	0.55
39:BG:50:ARG:HD3	39:BG:51:PRO:HD2	1.88	0.55
40:BH:100:VAL:HG11	40:BH:107:ARG:CD	2.37	0.55
41:BI:57:GLN:N	41:BI:57:GLN:CD	2.60	0.55
42:BJ:100:ALA:O	42:BJ:101:LEU:C	2.45	0.55
34:BA:1298:C:N3	42:BJ:114:ARG:HB3	2.20	0.55
43:BK:14:ARG:O	43:BK:18:ARG:HD2	2.05	0.55
43:BK:40:ALA:CB	43:BK:45:ILE:HG23	2.37	0.55
34:BA:1371:G:OP1	44:BL:12:GLU:HG2	2.07	0.55
45:BM:75:ILE:HG22	45:BM:76:ASN:CG	2.27	0.55
46:BN:21:ILE:HG13	46:BN:83:ILE:O	2.06	0.55
46:BN:31:THR:CB	46:BN:42:TRP:HB3	2.36	0.55
47:BO:28:LYS:CE	47:BO:33:ARG:NH1	2.65	0.55
47:BO:41:ARG:NH2	47:BO:57:LYS:HZ2	1.94	0.55
47:BO:85:ILE:O	47:BO:85:ILE:CG2	2.55	0.55
48:BP:4:ILE:O	48:BP:6:GLY:N	2.39	0.55
49:BQ:37:PHE:HD1	49:BQ:39:LEU:HD12	1.71	0.55
51:BS:26:ARG:NH1	51:BS:26:ARG:HG2	2.22	0.55
54:BV:14:HIS:HB2	54:BV:15:LEU:HD23	1.89	0.55
55:BW:31:SER:OG	55:BW:32:ALA:N	2.40	0.55
10:AK:95:SER:C	10:AK:98:ILE:H	2.10	0.55
2:AA:1042:G:H1	2:AA:1113:U:H3	1.55	0.55
44:BL:85:LEU:CD1	44:BL:89:ASN:ND2	2.69	0.55
37:BE:124:SER:O	37:BE:127:ILE:HG13	2.06	0.55
2:AA:1502:C:O2'	2:AA:1503:U:H5'	2.06	0.55
25:A1:48:ARG:O	25:A1:52:ASN:CG	2.45	0.55
25:A1:55:ARG:O	25:A1:56:ASP:C	2.45	0.55
25:A1:84:LYS:C	25:A1:86:ALA:N	2.57	0.55
26:A2:11:GLN:OE1	26:A2:21:ARG:NE	2.40	0.55
26:A2:5:ILE:O	26:A2:6:GLN:HB2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2356:C:H4'	27:A3:17:ASN:CG	2.27	0.55
2:AA:1031:G:H4'	33:A9:8:LYS:CE	2.36	0.55
2:AA:1130:U:HO2'	2:AA:1131:G:P	2.25	0.55
2:AA:1343:G:N2	2:AA:1405:U:N1	2.55	0.55
2:AA:1399:C:H2'	2:AA:1400:G:C8	2.41	0.55
2:AA:145:G:H2'	2:AA:146:G:O4'	2.07	0.55
2:AA:1498:C:O2	2:AA:1499:C:C6	2.60	0.55
2:AA:1527:G:C2'	2:AA:1528:A:C5'	2.71	0.55
2:AA:1539:G:C2'	2:AA:1540:G:C8	2.88	0.55
2:AA:154:G:H3'	2:AA:155:C:C6	2.41	0.55
2:AA:1569:A:N1	2:AA:1570:A:C6	2.75	0.55
2:AA:1416:G:C2	2:AA:1583:A:N6	2.75	0.55
2:AA:1672:C:HO2'	2:AA:1673:U:P	2.30	0.55
2:AA:1718:G:C2	2:AA:1741:C:C4	2.95	0.55
2:AA:1935:G:O2'	2:AA:1937:A:C2	2.59	0.55
2:AA:2024:G:C5	2:AA:2025:C:C5	2.95	0.55
2:AA:2111:C:H6	2:AA:2117:A:H62	1.55	0.55
2:AA:2186:G:N1	2:AA:2187:G:O6	2.39	0.55
2:AA:2212:A:N3	2:AA:2212:A:C2'	2.69	0.55
2:AA:2282:G:N2	2:AA:2427:C:C2	2.70	0.55
2:AA:2262:U:C4'	2:AA:2328:A:C2	2.90	0.55
2:AA:2348:U:C2'	2:AA:2349:G:O5'	2.55	0.55
2:AA:2377:A:H2'	2:AA:2378:A:N7	2.21	0.55
2:AA:2405:G:C2'	2:AA:2411:A:H61	2.16	0.55
2:AA:2462:U:C2'	2:AA:2463:C:H5'	2.36	0.55
2:AA:2475:C:O2'	2:AA:2477:C:P	2.65	0.55
2:AA:2493:U:N3	2:AA:2494:G:C8	2.75	0.55
2:AA:2589:A:C2	2:AA:2606:C:C4	2.94	0.55
2:AA:269:U:H5	2:AA:270(Z):U:OP2	1.89	0.55
2:AA:2706:G:C6	2:AA:2707:G:N7	2.74	0.55
2:AA:270(Z):U:O2	2:AA:271(B):G:OP1	2.24	0.55
2:AA:2841:C:H2'	2:AA:2842:G:N7	2.21	0.55
2:AA:273(D):C:C4	2:AA:363(B):G:N2	2.74	0.55
2:AA:374:A:C2	2:AA:375:C:C1'	2.89	0.55
2:AA:428:A:C5	2:AA:429:A:C5	2.94	0.55
2:AA:443:A:O4'	2:AA:1201:C:H5'	2.06	0.55
2:AA:542:C:H2'	2:AA:543:C:C6	2.42	0.55
2:AA:553:U:H2'	2:AA:554:U:O4'	2.07	0.55
2:AA:562:U:O5'	2:AA:562:U:H6	1.90	0.55
2:AA:597:U:H2'	2:AA:598:G:H8	1.72	0.55
2:AA:731:C:H2'	2:AA:732:C:H5'	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:775:G:H21	2:AA:788:A:P	2.27	0.55
2:AA:66:C:N3	2:AA:89:G:N1	2.54	0.55
2:AA:903:C:C2	2:AA:904:C:C5	2.95	0.55
1:AB:13:A:H2	1:AB:69:G:N2	2.02	0.55
1:AB:20:C:H2'	1:AB:21:G:C5'	2.37	0.55
3:AC:146:GLY:C	3:AC:148:ASN:H	2.08	0.55
3:AC:88:GLU:O	3:AC:89:ALA:C	2.45	0.55
4:AD:118:GLY:O	4:AD:120:ASP:N	2.40	0.55
4:AD:139:LEU:HD13	4:AD:192:GLY:N	2.20	0.55
4:AD:154:VAL:CA	4:AD:157:ALA:HB3	2.35	0.55
4:AD:174:ARG:HE	4:AD:180:VAL:CG1	2.20	0.55
4:AD:131:LEU:CD1	4:AD:183:ILE:HG21	2.37	0.55
4:AD:139:LEU:HD13	4:AD:192:GLY:CA	2.36	0.55
4:AD:156:ALA:C	4:AD:196:ASN:ND2	2.60	0.55
5:AE:201:VAL:H	5:AE:266:LYS:HZ2	1.54	0.55
5:AE:252:GLN:NE2	5:AE:252:GLN:HA	2.16	0.55
5:AE:269:ILE:HA	5:AE:297:LYS:HZ2	1.68	0.55
1:AB:45:A:C1'	7:AG:76:ARG:NH1	2.67	0.55
8:AH:100:LYS:O	8:AH:100:LYS:CG	2.53	0.55
8:AH:27:GLY:O	8:AH:28:PRO:O	2.25	0.55
8:AH:36:PHE:CE1	8:AH:74:MET:SD	2.99	0.55
10:AK:36:ALA:O	10:AK:37:ILE:HD12	2.07	0.55
11:AL:91:GLU:O	11:AL:95:LYS:HB3	2.07	0.55
12:AM:42:GLU:HA	12:AM:133:GLY:CA	2.37	0.55
14:AO:60:GLU:O	14:AO:61:ALA:HB2	2.06	0.55
14:AO:69:ILE:HG13	14:AO:70:ASP:N	2.22	0.55
15:AP:72:VAL:CG2	15:AP:135:ALA:HB1	2.37	0.55
15:AP:50:VAL:HG12	15:AP:51:GLU:OE1	2.07	0.55
16:AQ:15:GLU:O	16:AQ:16:ALA:HB2	2.07	0.55
16:AQ:17:ARG:NH2	16:AQ:106:LEU:HD13	2.22	0.55
20:AU:20:HIS:CD2	20:AU:23:VAL:HB	2.35	0.55
1:AB:75:G:N3	21:AV:22:VAL:CG2	2.70	0.55
21:AV:41:ARG:O	21:AV:45:GLN:NE2	2.40	0.55
35:BB:35:A:N1	36:B1:65:U:C2'	2.70	0.55
34:BA:1102:A:C4	34:BA:1103:C:C5	2.95	0.55
34:BA:1129:C:C4'	34:BA:1131:G:N7	2.53	0.55
34:BA:1250:A:C6	34:BA:1251:A:C6	2.95	0.55
34:BA:1305:G:OP2	34:BA:1305:G:C8	2.60	0.55
34:BA:166:G:N2	34:BA:167:G:C1'	2.70	0.55
34:BA:197:A:N7	34:BA:221:C:H4'	2.21	0.55
34:BA:259:G:N2	34:BA:260:G:H1'	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:284:G:O2'	34:BA:285:G:C5'	2.54	0.55
34:BA:47:C:C6	34:BA:365:U:H2'	2.42	0.55
34:BA:47:C:C5	34:BA:365:U:H2'	2.41	0.55
34:BA:522:C:H2'	34:BA:523:A:C8	2.42	0.55
34:BA:522:C:H2'	34:BA:523:A:H8	1.72	0.55
34:BA:817:C:N3	34:BA:1529:G:N1	2.49	0.55
34:BA:890:G:H2'	34:BA:891:U:OP2	2.07	0.55
37:BE:149:LEU:C	37:BE:151:GLY:N	2.59	0.55
37:BE:15:VAL:HG21	37:BE:209:ARG:CB	2.35	0.55
37:BE:50:GLU:O	37:BE:51:LEU:C	2.45	0.55
38:BF:88:ARG:HG3	38:BF:101:LEU:HB2	1.89	0.55
39:BG:31:CYS:C	39:BG:33:MET:N	2.59	0.55
39:BG:78:LEU:O	39:BG:79:PHE:C	2.45	0.55
40:BH:127:ASN:O	40:BH:127:ASN:OD1	2.24	0.55
40:BH:79:GLU:CG	40:BH:93:PRO:HD2	2.36	0.55
42:BJ:62:PHE:HA	42:BJ:124:LEU:CD2	2.36	0.55
42:BJ:69:VAL:HG21	42:BJ:104:LEU:HD13	1.87	0.55
43:BK:120:THR:O	43:BK:121:ASP:C	2.45	0.55
43:BK:24:THR:O	43:BK:60:ARG:CA	2.55	0.55
43:BK:22:GLU:O	43:BK:63:LEU:CD1	2.55	0.55
43:BK:82:HIS:C	43:BK:137:VAL:HG13	2.26	0.55
34:BA:1344:C:H5'	44:BL:120:ARG:O	2.06	0.55
44:BL:98:PRO:O	44:BL:100:GLY:N	2.37	0.55
47:BO:34:ARG:HH21	47:BO:61:THR:CG2	2.07	0.55
35:BC:29:A:H5'	48:BP:118:ALA:O	2.05	0.55
48:BP:20:THR:O	48:BP:20:THR:CG2	2.54	0.55
34:BA:750:G:N3	50:BR:23:GLY:CA	2.70	0.55
50:BR:71:GLN:HG3	50:BR:75:PRO:HB3	1.86	0.55
52:BT:5:VAL:HG13	52:BT:59:ILE:N	2.22	0.55
55:BW:63:ILE:HG12	55:BW:72:LEU:HD11	1.89	0.55
23:AX:1:MET:SD	23:AX:1:MET:O	2.65	0.55
25:A1:93:LYS:H	26:A2:10:LYS:HZ3	1.55	0.55
26:A2:76:SER:HG	26:A2:84:THR:H	1.55	0.55
27:A3:63:SER:OG	27:A3:64:ASP:N	2.37	0.55
31:A7:35:ARG:CB	31:A7:35:ARG:NH1	2.51	0.55
33:A9:3:VAL:O	33:A9:3:VAL:HG12	2.06	0.55
2:AA:1044:G:O6	2:AA:1112:G:N3	2.39	0.55
2:AA:1044:G:OP1	2:AA:1047:G:H5''	2.07	0.55
2:AA:1070:A:C8	2:AA:1097:U:O5'	2.60	0.55
2:AA:1077:A:C8	2:AA:1078:U:C4	2.95	0.55
2:AA:1102:C:O2'	2:AA:1103:A:H8	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1198:U:C2	2:AA:1199:U:C5	2.95	0.55
2:AA:1201:C:H2'	2:AA:1202:C:O5'	2.07	0.55
2:AA:1327:C:C2'	2:AA:1328:G:C8	2.88	0.55
2:AA:136:G:C8	2:AA:136:G:OP2	2.59	0.55
2:AA:1387:C:C2	2:AA:1388:G:C8	2.94	0.55
2:AA:1437:C:O2'	2:AA:1438:U:OP1	2.25	0.55
2:AA:14:A:C8	2:AA:15:G:N9	2.74	0.55
2:AA:1582:C:H2'	2:AA:1583:A:H1'	1.88	0.55
2:AA:1272:A:OP2	2:AA:1647:G:OP1	2.24	0.55
2:AA:1718:G:N2	2:AA:1741:C:C2	2.74	0.55
2:AA:1786:A:C6	2:AA:1938:A:C6	2.95	0.55
2:AA:1831:G:C5	2:AA:1832:C:C4	2.95	0.55
2:AA:192:C:H5''	2:AA:193:U:OP2	2.07	0.55
2:AA:1768:U:H1'	2:AA:1985:G:N2	2.20	0.55
2:AA:2153:G:C2	2:AA:2154:G:H1'	2.41	0.55
2:AA:2396:G:N2	2:AA:2397:G:C8	2.75	0.55
2:AA:2444:G:C6	2:AA:2445:G:C6	2.95	0.55
2:AA:246:C:O2'	2:AA:385:C:H5'	2.07	0.55
2:AA:2537:U:H2'	2:AA:2538:C:C6	2.42	0.55
2:AA:2583:G:H2'	2:AA:2584:U:O2	2.06	0.55
2:AA:2694:G:H2'	2:AA:2695:C:O5'	2.07	0.55
2:AA:2699:C:O2	2:AA:2699:C:H2'	2.05	0.55
2:AA:2777:G:C8	2:AA:2777:G:C3'	2.89	0.55
2:AA:2777:G:H3'	2:AA:2777:G:C8	2.42	0.55
2:AA:283:A:C8	2:AA:284:U:C6	2.94	0.55
2:AA:2850:A:C4	2:AA:2851:A:N7	2.74	0.55
2:AA:2851:A:N9	24:A0:61:HIS:NE2	2.54	0.55
2:AA:31:C:H42	2:AA:474:G:H1	1.55	0.55
2:AA:387:U:C5	2:AA:387:U:OP2	2.60	0.55
2:AA:388:G:C2'	2:AA:390:A:C5	2.88	0.55
2:AA:417:C:O2'	2:AA:418:G:H5'	2.07	0.55
2:AA:465:G:H2'	2:AA:466:A:H8	1.71	0.55
2:AA:638:G:C8	2:AA:639:U:C2	2.95	0.55
2:AA:640:C:N4	2:AA:647:G:C6	2.71	0.55
2:AA:661:C:O2	2:AA:661:C:H2'	2.06	0.55
2:AA:716:A:C3'	2:AA:716:A:C8	2.90	0.55
2:AA:727:A:C2'	2:AA:728:G:O5'	2.55	0.55
2:AA:731:C:OP2	2:AA:761:A:OP1	2.23	0.55
2:AA:749:C:H2'	2:AA:750:A:C8	2.36	0.55
1:AB:82:G:C6	1:AB:95:U:N3	2.75	0.55
3:AC:103:ILE:HG22	3:AC:130:ILE:HG21	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:127:LEU:CA	3:AC:130:ILE:HB	2.37	0.55
3:AC:20:TYR:HB3	3:AC:24:GLU:CD	2.26	0.55
4:AD:164:LEU:CD1	4:AD:174:ARG:HH12	2.16	0.55
2:AA:783:A:H5''	4:AD:230:ASN:ND2	2.22	0.55
4:AD:62:ARG:NH2	4:AD:85:ASN:OD1	2.40	0.55
5:AE:105:HIS:CG	5:AE:108:LEU:HG	2.41	0.55
5:AE:175:ASP:O	5:AE:178:LEU:HG	2.07	0.55
2:AA:1656:C:P	5:AE:212:GLY:HA3	2.47	0.55
5:AE:215:LYS:O	5:AE:216:ARG:C	2.44	0.55
5:AE:41:PHE:O	5:AE:311:PHE:CE1	2.60	0.55
6:AF:140:VAL:CG1	6:AF:236:THR:HG22	2.27	0.55
6:AF:90:HIS:H	6:AF:91:PRO:HD3	1.72	0.55
8:AH:102:LEU:HD11	8:AH:114:ILE:HB	1.88	0.55
9:AI:61:VAL:HG13	9:AI:115:LYS:HG2	1.89	0.55
11:AL:28:LEU:C	11:AL:33:VAL:HB	2.27	0.55
12:AM:58:GLU:HG2	12:AM:139:LEU:HB3	1.84	0.55
12:AM:65:ASN:O	12:AM:68:GLY:O	2.24	0.55
12:AM:60:ARG:HB3	12:AM:71:TYR:HD2	1.72	0.55
2:AA:2495:G:O2'	15:AP:101:MET:HG3	2.06	0.55
15:AP:16:ARG:HD3	15:AP:19:TYR:CD2	2.42	0.55
18:AS:76:VAL:CG2	18:AS:102:HIS:O	2.54	0.55
18:AS:13:SER:HG	18:AS:17:VAL:H	1.55	0.55
18:AS:30:GLU:O	18:AS:33:ARG:CB	2.53	0.55
2:AA:1399:C:OP1	19:AT:67:ARG:NH1	2.40	0.55
20:AU:105:ASP:HB2	20:AU:108:ARG:HD2	1.87	0.55
21:AV:35:ASP:OD1	21:AV:37:LYS:HB3	2.07	0.55
22:AW:30:ALA:O	22:AW:34:GLN:CB	2.55	0.55
2:AA:929:G:O2'	23:AX:43:ILE:CG1	2.55	0.55
34:BA:1136:U:C5'	34:BA:1137:C:OP2	2.50	0.55
34:BA:1218:C:H2'	34:BA:1219:U:C6	2.41	0.55
34:BA:135:C:C6	34:BA:135:C:C3'	2.90	0.55
34:BA:925:G:N1	34:BA:1392:G:C6	2.74	0.55
34:BA:1436:U:C4	34:BA:1437:C:C5	2.94	0.55
34:BA:1468:A:C8	34:BA:1469:G:C8	2.95	0.55
34:BA:153:C:O2'	34:BA:154:C:H5'	2.07	0.55
34:BA:1539:C:C2	34:BA:1540:U:C5	2.95	0.55
34:BA:292:G:C5	34:BA:293:G:H1'	2.42	0.55
34:BA:313:A:C2'	34:BA:314:C:H6	2.04	0.55
34:BA:484:G:H4'	34:BA:485:G:O5'	2.07	0.55
34:BA:872:A:C2	34:BA:874:G:N7	2.75	0.55
34:BA:880:C:C2'	34:BA:881:G:C5'	2.85	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BF:205:GLY:O	38:BF:206:GLU:HB2	2.07	0.55
39:BG:15:GLU:HA	39:BG:15:GLU:OE1	2.06	0.55
39:BG:26:CYS:CA	39:BG:31:CYS:HA	2.35	0.55
39:BG:4:TYR:O	39:BG:5:ILE:CB	2.55	0.55
39:BG:93:PHE:O	39:BG:96:LEU:N	2.39	0.55
40:BH:103:GLY:HA2	40:BH:107:ARG:HH22	1.70	0.55
40:BH:76:ILE:CB	40:BH:77:PRO:HD2	2.36	0.55
42:BJ:111:ARG:CD	42:BJ:123:GLU:OE2	2.54	0.55
34:BA:599:C:O2'	43:BK:129:VAL:C	2.45	0.55
43:BK:67:PRO:HG2	43:BK:76:PRO:HA	1.88	0.55
43:BK:4:ASP:CG	43:BK:6:ILE:CG2	2.75	0.55
43:BK:98:LYS:H	43:BK:98:LYS:NZ	2.02	0.55
47:BO:84:LEU:HB2	47:BO:105:TYR:CE1	2.42	0.55
47:BO:58:VAL:O	47:BO:60:LEU:HD11	2.07	0.55
54:BV:39:THR:HA	54:BV:70:LYS:HA	1.89	0.55
55:BW:83:ARG:HA	55:BW:86:ARG:CD	2.32	0.55
56:BX:18:TYR:HD1	56:BX:18:TYR:H	1.49	0.55
10:AK:110:LEU:HD21	10:AK:114:LYS:NZ	2.21	0.55
35:BB:22:G:O2'	35:BB:23:A:H8	1.90	0.55
37:BE:136:VAL:N	37:BE:139:LYS:NZ	2.55	0.55
27:A3:4:LYS:HZ3	27:A3:11:LYS:HZ2	1.54	0.55
9:AI:31:VAL:O	9:AI:31:VAL:HG12	2.07	0.55
9:AI:55:GLU:O	9:AI:56:LYS:HG3	2.06	0.55
24:A0:64:ARG:CG	24:A0:65:LEU:N	2.69	0.55
25:A1:114:ARG:C	25:A1:117:ARG:HG3	2.26	0.55
25:A1:50:ARG:HH22	26:A2:73:LYS:C	2.10	0.55
26:A2:52:GLY:HA2	26:A2:55:THR:OG1	2.07	0.55
2:AA:1225:C:OP2	26:A2:87:ARG:NH2	2.40	0.55
26:A2:96:LEU:O	26:A2:96:LEU:HG	2.06	0.55
27:A3:25:LYS:CE	27:A3:57:HIS:O	2.54	0.55
27:A3:35:ASN:OD1	27:A3:35:ASN:C	2.44	0.55
28:A4:26:SER:O	28:A4:27:THR:OG1	2.20	0.55
28:A4:33:VAL:CG1	28:A4:35:VAL:HG23	2.37	0.55
2:AA:1144:G:C4	2:AA:1145:C:C5	2.95	0.55
2:AA:988:A:O2'	2:AA:1157:G:H5'	2.06	0.55
2:AA:1275:A:N1	24:A0:16:HIS:CA	2.64	0.55
2:AA:1278:A:H61	2:AA:1292:U:H3	1.54	0.55
2:AA:1534:G:N2	2:AA:1536:A:H8	2.05	0.55
2:AA:1565:C:O2'	2:AA:1566:A:C8	2.59	0.55
2:AA:173:G:N2	2:AA:174:C:C2	2.74	0.55
2:AA:1771:C:C2	2:AA:1772:G:N7	2.75	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1838:C:H2'	2:AA:1898:U:C5	2.42	0.55
2:AA:1977:A:O2'	2:AA:1978:A:O4'	2.18	0.55
2:AA:196:A:O2'	2:AA:197:A:OP1	2.25	0.55
2:AA:2126:A:H2	2:AA:2127:G:C4	2.25	0.55
2:AA:2131:G:OP1	2:AA:2131:G:O4'	2.24	0.55
2:AA:2107:C:C2	2:AA:2182:G:N2	2.75	0.55
2:AA:2262:U:C4'	2:AA:2328:A:H2	2.20	0.55
2:AA:2302:G:O2'	2:AA:2303:G:H5'	2.06	0.55
2:AA:2370:G:C4	2:AA:2371:G:C8	2.95	0.55
2:AA:2408:U:H2'	2:AA:2409:G:C8	2.42	0.55
2:AA:2602:A:OP1	35:BC:75:C:OP2	2.24	0.55
2:AA:2635:C:O2	2:AA:2635:C:C2'	2.44	0.55
2:AA:2679:A:N3	5:AE:300:VAL:CG1	2.61	0.55
2:AA:2790:A:O4'	2:AA:2893:G:N2	2.39	0.55
2:AA:2824:C:H2'	2:AA:2825:C:H5'	1.89	0.55
2:AA:2834:G:H3'	2:AA:2834:G:H8	1.72	0.55
2:AA:2852:G:H2'	2:AA:2853:C:C6	2.41	0.55
2:AA:302:C:H2'	2:AA:303:U:C6	2.42	0.55
2:AA:540:G:C5	2:AA:541:C:C5	2.95	0.55
2:AA:640:C:C6	2:AA:640:C:H3'	2.38	0.55
2:AA:685:A:C2	2:AA:689:A:C6	2.95	0.55
2:AA:727:A:N6	2:AA:728:G:N1	2.55	0.55
2:AA:754:C:N3	2:AA:755:C:C5	2.75	0.55
1:AB:3:C:N3	1:AB:118:G:C2	2.74	0.55
5:AE:109:ASP:OD1	5:AE:112:LEU:CG	2.54	0.55
5:AE:317:PRO:HB2	5:AE:320:GLN:HA	1.88	0.55
6:AF:168:ARG:NE	6:AF:209:GLY:CA	2.70	0.55
7:AG:98:PHE:CA	7:AG:104:PHE:CD2	2.66	0.55
8:AH:8:ILE:HG22	8:AH:9:GLU:O	2.06	0.55
9:AI:22:VAL:HA	9:AI:38:ALA:CB	2.37	0.55
9:AJ:30:GLY:O	9:AJ:34:ALA:HB3	2.07	0.55
11:AL:55:PRO:HD2	11:AL:73:PRO:HD3	1.89	0.55
12:AM:131:THR:O	12:AM:131:THR:OG1	2.24	0.55
12:AM:25:GLN:O	12:AM:27:ALA:N	2.40	0.55
14:AO:73:VAL:O	14:AO:76:LEU:N	2.39	0.55
15:AP:11:LYS:NZ	15:AP:55:GLN:HG2	2.22	0.55
15:AP:63:ALA:O	15:AP:70:ARG:NH2	2.40	0.55
17:AR:7:ASP:OD2	17:AR:31:PHE:CE2	2.58	0.55
18:AS:74:ALA:CB	18:AS:105:VAL:HG12	2.36	0.55
20:AU:20:HIS:HD2	20:AU:23:VAL:CB	2.17	0.55
20:AU:81:LYS:HD2	20:AU:83:ASP:CB	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:53:ASP:OD2	21:AV:62:PHE:O	2.25	0.55
21:AV:2:GLU:N	21:AV:54:ILE:HG13	2.22	0.55
23:AX:19:GLN:O	23:AX:23:LEU:HG	2.06	0.55
34:BA:1016:A:N6	34:BA:1017:G:N2	2.54	0.55
34:BA:1077:G:N2	34:BA:1079:G:C2'	2.70	0.55
34:BA:1121:U:O5'	34:BA:1121:U:C6	2.59	0.55
34:BA:120:A:H2'	34:BA:122:G:N7	2.22	0.55
34:BA:1349:A:OP2	44:BL:118:LYS:HG2	2.07	0.55
34:BA:976:G:N2	34:BA:1363:A:C8	2.75	0.55
34:BA:1371:G:OP2	44:BL:12:GLU:OE1	2.25	0.55
34:BA:1390:U:N3	34:BA:1391:U:O4	2.40	0.55
34:BA:13:U:C6	34:BA:13:U:H5''	2.27	0.55
34:BA:1441:G:H5''	34:BA:1442:G:H5'	1.89	0.55
34:BA:192:U:C1'	55:BW:103:GLY:CA	2.71	0.55
34:BA:295:C:C2'	34:BA:296:U:O5'	2.55	0.55
34:BA:294:U:H3	34:BA:303:A:H61	1.54	0.55
34:BA:306:G:N3	34:BA:307:C:C6	2.74	0.55
34:BA:655:A:H8	34:BA:655:A:O5'	1.90	0.55
34:BA:690:G:C6	34:BA:691:G:C2	2.95	0.55
34:BA:742:G:C2	34:BA:743:U:C2	2.95	0.55
34:BA:980:C:H2'	34:BA:981:U:O4'	2.07	0.55
34:BA:8:A:H4'	34:BA:9:G:OP1	2.04	0.55
35:BB:33:U:N3	35:BB:35:A:P	2.75	0.55
35:BC:16:U:C5'	35:BC:18:G:H5''	2.32	0.55
37:BE:15:VAL:HG11	37:BE:209:ARG:HB3	1.89	0.55
38:BF:121:ALA:HB2	38:BF:187:ALA:CB	2.37	0.55
39:BG:172:PRO:HG3	39:BG:193:ASP:HB2	1.87	0.55
41:BI:95:GLU:OE2	41:BI:95:GLU:N	2.40	0.55
43:BK:29:SER:N	43:BK:32:LYS:NZ	2.55	0.55
44:BL:96:LEU:O	44:BL:101:PHE:HD1	1.90	0.55
45:BM:51:ARG:NH2	45:BM:61:GLU:OE1	2.40	0.55
46:BN:12:ARG:HB3	46:BN:75:TYR:CG	2.41	0.55
47:BO:88:GLY:CA	47:BO:99:HIS:CE1	2.90	0.55
47:BO:89:ARG:C	47:BO:90:VAL:HG23	2.26	0.55
48:BP:81:LEU:CD2	48:BP:82:MET:N	2.70	0.55
48:BP:81:LEU:HB2	48:BP:86:CYS:HG	1.65	0.55
50:BR:70:LEU:O	50:BR:70:LEU:HD12	2.06	0.55
54:BV:24:ALA:HB3	54:BV:25:LYS:NZ	2.22	0.55
55:BW:27:LYS:O	55:BW:28:ALA:C	2.43	0.55
55:BW:72:LEU:CD2	55:BW:77:ALA:N	2.66	0.55
56:BX:9:ARG:NH1	56:BX:21:TYR:HB3	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:110:LEU:HG	10:AK:114:LYS:HZ1	1.71	0.55
35:BB:11:C:C4	35:BB:12:U:C5	2.95	0.55
6:AF:61:PHE:O	6:AF:65:ARG:NH2	2.40	0.55
34:BA:806:C:O2'	34:BA:807:A:H5'	2.07	0.55
27:A3:8:GLY:O	27:A3:9:SER:C	2.45	0.55
9:AJ:55:GLU:O	9:AJ:56:LYS:HG3	2.06	0.55
24:A0:52:ILE:HG21	24:A0:94:TYR:CD1	2.42	0.55
25:A1:50:ARG:N	25:A1:53:LYS:NZ	2.55	0.55
25:A1:8:ILE:CA	25:A1:11:ARG:HH11	2.20	0.55
26:A2:12:TYR:CG	26:A2:13:ARG:N	2.75	0.55
26:A2:4:ILE:HD11	26:A2:13:ARG:CZ	2.36	0.55
2:AA:2372:G:P	30:A6:47:HIS:HE2	2.29	0.55
31:A7:17:GLY:O	31:A7:18:PHE:C	2.45	0.55
2:AA:1084:A:C2	2:AA:1085:A:C2	2.95	0.55
2:AA:121:G:O2'	2:AA:122:G:H5'	2.06	0.55
2:AA:1315:C:O2'	2:AA:1392:A:H1'	2.06	0.55
2:AA:1358:G:C3'	2:AA:1371:G:H22	2.20	0.55
2:AA:1446:C:O2'	2:AA:1447:G:H5'	2.06	0.55
2:AA:153:C:N3	2:AA:174:C:N3	2.54	0.55
2:AA:1582:C:O3'	2:AA:1586:A:H4'	2.07	0.55
2:AA:1698:A:HO2'	2:AA:1699:G:P	2.29	0.55
2:AA:1710:C:H5'	2:AA:2859:G:H1'	1.89	0.55
2:AA:1757:U:O2	2:AA:1757:U:H2'	2.07	0.55
2:AA:178:G:C8	2:AA:178:G:H3'	2.41	0.55
2:AA:1805:U:H5'	4:AD:235:PRO:CB	2.36	0.55
2:AA:1864:U:O2'	2:AA:1869:G:H5'	2.05	0.55
2:AA:197:A:H3'	2:AA:198:C:C6	2.42	0.55
2:AA:2010:G:H2'	2:AA:2011:U:C5'	2.28	0.55
2:AA:2055:C:H2'	2:AA:2504:U:C5'	2.22	0.55
2:AA:2086:U:C4	2:AA:2233:U:O4	2.60	0.55
2:AA:2097:C:N4	2:AA:2192:G:N1	2.13	0.55
2:AA:2098:U:N3	2:AA:2191:G:N1	2.50	0.55
2:AA:20:C:O2'	2:AA:21:A:C5'	2.51	0.55
2:AA:209:C:H2'	2:AA:210:C:C5'	2.37	0.55
2:AA:2239:G:C4	2:AA:2240:C:C6	2.94	0.55
2:AA:2241:A:H2'	2:AA:2242:G:H8	1.70	0.55
2:AA:2333:A:H1'	2:AA:2335:A:C2	2.41	0.55
2:AA:2349:G:C2	2:AA:2369:A:C2	2.95	0.55
2:AA:2770:G:N7	2:AA:2771:C:H5	2.05	0.55
2:AA:2781:A:C5'	2:AA:2782:G:C5'	2.83	0.55
2:AA:2877:G:N2	2:AA:2878:U:C2	2.75	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:297:C:C2'	2:AA:298:G:O4'	2.54	0.55
2:AA:301:G:H5''	2:AA:335:C:OP1	2.07	0.55
2:AA:373:U:N3	2:AA:400:G:N2	2.54	0.55
2:AA:499:U:H2'	2:AA:500:G:C5'	2.35	0.55
2:AA:611:C:C6	2:AA:618:G:N2	2.69	0.55
2:AA:628:G:N1	2:AA:635:C:N4	2.22	0.55
2:AA:654:A:C2	2:AA:655:A:C8	2.95	0.55
2:AA:701:G:C2	2:AA:732:C:C4	2.95	0.55
2:AA:736:C:O2'	2:AA:737:C:H5'	2.07	0.55
2:AA:737:C:H2'	2:AA:738:G:H5'	1.89	0.55
2:AA:862:G:C2	2:AA:863:A:H1'	2.41	0.55
2:AA:933:A:C2'	2:AA:934:G:H5'	2.37	0.55
3:AC:45:ALA:HB1	3:AC:211:SER:O	2.06	0.55
3:AC:21:THR:HG22	3:AC:228:SER:OG	2.05	0.55
4:AD:186:LYS:O	4:AD:187:CYS:O	2.24	0.55
4:AD:130:PRO:CA	4:AD:187:CYS:O	2.55	0.55
4:AD:210:LYS:CA	4:AD:213:LYS:CD	2.83	0.55
5:AE:76:PRO:HB3	5:AE:292:PRO:CG	2.35	0.55
2:AA:2784:C:O2'	5:AE:98:GLU:O	2.21	0.55
7:AG:151:ILE:CD1	7:AG:156:ARG:NH2	2.65	0.55
7:AG:55:LYS:C	7:AG:56:ARG:HG2	2.27	0.55
7:AG:29:HIS:CE1	7:AG:69:ILE:HD11	2.42	0.55
8:AH:71:LEU:O	8:AH:72:ALA:C	2.46	0.55
9:AI:78:ARG:NH2	9:AI:89:LYS:HG3	2.11	0.55
9:AJ:62:VAL:O	9:AJ:125:VAL:HG13	2.06	0.55
10:AK:5:PHE:CD2	10:AK:17:GLU:C	2.80	0.55
9:AJ:86:LYS:HZ1	11:AL:10:LYS:HD2	1.72	0.55
11:AL:89:SER:OG	11:AL:90:SER:N	2.40	0.55
12:AM:53:ILE:HG23	12:AM:135:ILE:HD11	1.89	0.55
13:AN:103:ALA:C	13:AN:105:GLU:HG2	2.27	0.55
13:AN:107:ARG:CA	13:AN:115:ILE:CD1	2.84	0.55
13:AN:99:PHE:O	13:AN:100:GLY:O	2.24	0.55
14:AO:61:ALA:O	14:AO:62:ALA:HB2	2.06	0.55
15:AP:16:ARG:HB3	15:AP:19:TYR:HB2	1.87	0.55
15:AP:82:LYS:HZ2	15:AP:84:ARG:NE	2.02	0.55
16:AQ:110:THR:O	16:AQ:114:LYS:N	2.39	0.55
17:AR:48:ASN:O	17:AR:49:LEU:C	2.46	0.55
18:AS:89:ALA:H	18:AS:92:ARG:C	2.10	0.55
21:AV:103:ARG:NH1	21:AV:139:THR:HG22	2.22	0.55
21:AV:43:PHE:HA	21:AV:47:SER:OG	2.07	0.55
21:AV:92:VAL:HG13	21:AV:124:ALA:CB	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1105:A:C4	34:BA:1106:G:C8	2.94	0.55
34:BA:112:G:N2	34:BA:330:C:H41	2.04	0.55
34:BA:1366:C:O2'	34:BA:1367:C:H5'	2.06	0.55
34:BA:1413:A:N3	34:BA:1413:A:H2'	2.20	0.55
34:BA:1504:G:OP2	34:BA:1504:G:H8	1.90	0.55
34:BA:243:A:H4'	34:BA:244:U:H5'	1.89	0.55
34:BA:27:G:N2	34:BA:557:G:H1'	2.22	0.55
34:BA:245:C:C2	34:BA:284:G:C6	2.95	0.55
34:BA:307:C:C2'	34:BA:307:C:O2	2.55	0.55
34:BA:551:U:H2'	34:BA:552:U:C5	2.39	0.55
34:BA:622:A:H2'	34:BA:623:C:C5'	2.37	0.55
34:BA:626:U:OP1	51:BS:38:TYR:CB	2.54	0.55
34:BA:663:A:N6	34:BA:664:G:O6	2.40	0.55
34:BA:764:C:C2'	34:BA:765:G:H8	2.17	0.55
34:BA:782:A:C6	34:BA:801:U:C2	2.95	0.55
34:BA:790:A:C2'	34:BA:791:G:O5'	2.54	0.55
35:BB:47:U:O4	35:BB:49:C:H4'	2.07	0.55
35:BC:11:C:H2'	35:BC:12:U:H6	1.72	0.55
35:BC:18:G:C5	35:BC:58:A:C2	2.94	0.55
37:BE:69:LEU:HB3	37:BE:162:ILE:HA	1.89	0.55
37:BE:193:ASP:O	37:BE:194:PRO:C	2.46	0.55
37:BE:61:LEU:N	37:BE:64:ARG:HH11	2.05	0.55
38:BF:12:LEU:CG	38:BF:17:ASP:HA	2.37	0.55
38:BF:73:PRO:O	38:BF:76:VAL:N	2.34	0.55
39:BG:110:PHE:CZ	39:BG:147:ALA:HA	2.42	0.55
39:BG:17:VAL:O	39:BG:18:LYS:O	2.24	0.55
43:BK:14:ARG:HA	43:BK:17:THR:OG1	2.07	0.55
44:BL:15:ALA:HB2	44:BL:76:ALA:CB	2.36	0.55
44:BL:2:GLU:O	44:BL:21:PRO:HD3	2.07	0.55
45:BM:15:THR:HG23	45:BM:16:LEU:HD22	1.88	0.55
47:BO:41:ARG:NH2	47:BO:57:LYS:HZ1	2.05	0.55
34:BA:1329:A:H5'	48:BP:29:ARG:HE	1.68	0.55
48:BP:81:LEU:HG	48:BP:88:ARG:NE	2.21	0.55
2:AA:887:A:OP1	48:BP:93:ARG:NH2	2.37	0.55
49:BQ:42:ILE:O	49:BQ:44:LEU:N	2.40	0.55
50:BR:4:THR:C	50:BR:6:GLU:OE2	2.44	0.55
50:BR:56:LEU:HD12	50:BR:59:MET:CE	2.36	0.55
43:BK:90:GLY:O	52:BT:34:LYS:CD	2.53	0.55
54:BV:36:ARG:NE	54:BV:72:GLY:CA	2.68	0.55
35:BB:38:A:C3'	35:BB:39:U:H5'	2.37	0.55
10:AK:130:PRO:HA	10:AK:140:THR:HA	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1285:G:H8	2:AA:1285:G:O5'	1.90	0.55
1:AB:14:U:O2'	1:AB:107:U:C4'	2.55	0.55
24:A0:36:THR:HB	24:A0:40:LYS:CB	2.37	0.54
24:A0:70:LEU:N	24:A0:70:LEU:HD23	2.23	0.54
27:A3:29:GLU:O	27:A3:31:VAL:HG23	2.07	0.54
27:A3:40:GLN:N	27:A3:69:PHE:HE1	2.05	0.54
27:A3:44:LYS:C	27:A3:45:PHE:HD1	2.11	0.54
27:A3:48:GLY:CA	27:A3:55:ARG:HA	2.37	0.54
28:A4:6:HIS:HB2	28:A4:56:VAL:CG2	2.36	0.54
32:A8:15:LYS:HA	32:A8:16:ILE:HD12	1.89	0.54
2:AA:84:A:H1'	2:AA:103:A:N6	2.22	0.54
2:AA:1059:G:H1'	11:AL:127:ILE:CG2	2.37	0.54
2:AA:1059:G:N3	11:AL:127:ILE:CG2	2.70	0.54
2:AA:1068:G:C6	2:AA:1073:A:C2	2.94	0.54
2:AA:1074:G:C5	2:AA:1075:C:H5	2.25	0.54
2:AA:1323:U:OP1	18:AS:84:ARG:HD3	2.07	0.54
2:AA:1286:A:N3	2:AA:1329:U:N3	2.54	0.54
2:AA:137:C:O2	2:AA:137(A):G:C5	2.59	0.54
2:AA:1381:G:H2'	2:AA:1382:G:O4'	2.06	0.54
2:AA:138:G:H1'	19:AT:42:GLU:CG	2.36	0.54
2:AA:1459:G:C6	2:AA:1461:G:C5	2.94	0.54
2:AA:1417:C:C4	2:AA:1581:G:N2	2.71	0.54
2:AA:1677:A:H2'	2:AA:1678:G:H8	1.61	0.54
2:AA:1699:G:C6	2:AA:1763:G:C4	2.95	0.54
2:AA:1907:G:H1	2:AA:1923:U:H3	0.65	0.54
2:AA:2023:G:OP1	2:AA:2034:U:O2'	2.23	0.54
2:AA:204:A:H2	2:AA:205:G:N2	2.05	0.54
2:AA:2287:A:C2	2:AA:2289:G:C1'	2.90	0.54
2:AA:2356:C:OP1	27:A3:21:LEU:CD2	2.53	0.54
2:AA:2395:C:H6	2:AA:2395:C:O5'	1.90	0.54
2:AA:2071:A:C2	2:AA:2441:C:N3	2.75	0.54
2:AA:2654:A:O5'	2:AA:2654:A:H8	1.90	0.54
2:AA:265:A:N7	2:AA:428:A:C6	2.75	0.54
2:AA:2805:G:N7	2:AA:2807:G:C8	2.74	0.54
2:AA:2869:G:O2'	2:AA:2870:C:H5'	2.07	0.54
2:AA:309:G:H5'	2:AA:310:A:OP2	2.07	0.54
2:AA:340:A:C8	2:AA:340:A:OP2	2.60	0.54
2:AA:357:A:H8	2:AA:357:A:O5'	1.90	0.54
2:AA:225:A:H61	2:AA:419:C:H4'	1.71	0.54
2:AA:424:G:N2	2:AA:425:G:H1'	2.23	0.54
2:AA:543:C:H2'	2:AA:544:C:O5'	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:552:G:H2'	2:AA:553:U:C6	2.42	0.54
2:AA:554:U:O2'	2:AA:556:G:C8	2.53	0.54
2:AA:559:G:H4'	2:AA:560:C:OP1	2.07	0.54
2:AA:575:A:H2	2:AA:576:U:C2	2.25	0.54
2:AA:589:C:O2'	6:AF:96:LYS:HG2	2.07	0.54
2:AA:673:C:C5'	6:AF:82:GLN:HE22	2.19	0.54
2:AA:722:A:O2'	2:AA:723:G:H5'	2.07	0.54
2:AA:849:A:C4	2:AA:850:C:C6	2.94	0.54
2:AA:912:C:O2'	2:AA:913:U:H5'	2.07	0.54
1:AB:16:G:C3'	1:AB:16:G:OP2	2.39	0.54
3:AC:117:PRO:HG3	3:AC:145:VAL:CG1	2.37	0.54
4:AD:167:GLU:HB2	4:AD:170:TYR:CD1	2.37	0.54
5:AE:211:GLN:H	5:AE:216:ARG:NE	2.06	0.54
5:AE:222:ARG:HH21	5:AE:234:ARG:CA	2.18	0.54
5:AE:210:THR:HG22	5:AE:255:GLN:HE21	1.72	0.54
6:AF:111:VAL:CA	6:AF:220:THR:HG23	2.25	0.54
6:AF:239:ALA:CB	6:AF:242:GLU:OE2	2.45	0.54
6:AF:83:ALA:O	6:AF:84:VAL:CG2	2.53	0.54
7:AG:51:ARG:HH11	7:AG:72:LYS:CB	2.09	0.54
8:AH:117:GLU:HG2	8:AH:118:GLU:N	2.21	0.54
8:AH:148:ARG:CA	8:AH:161:ILE:HD12	2.36	0.54
8:AH:76:GLU:O	8:AH:79:SER:OG	2.21	0.54
8:AH:94:ARG:HB3	8:AH:127:GLN:NE2	2.14	0.54
11:AL:72:THR:HG23	11:AL:115:ASP:H	1.70	0.54
11:AL:33:VAL:HG22	11:AL:60:VAL:CG1	2.37	0.54
12:AM:18:ILE:O	12:AM:22:VAL:HG23	2.07	0.54
12:AM:13:ASP:CA	12:AM:38:VAL:HG13	2.37	0.54
14:AO:125:PHE:O	14:AO:130:ARG:NE	2.40	0.54
15:AP:26:LYS:O	15:AP:27:GLY:C	2.44	0.54
15:AP:28:ILE:HG22	15:AP:29:ALA:H	1.72	0.54
15:AP:32:LYS:HE2	15:AP:32:LYS:O	2.07	0.54
19:AT:18:MET:HE3	19:AT:25:GLN:O	2.06	0.54
19:AT:33:SER:N	19:AT:37:VAL:HG23	2.22	0.54
21:AV:118:HIS:CG	21:AV:167:THR:O	2.60	0.54
21:AV:147:ILE:HG13	21:AV:168:VAL:CG1	2.37	0.54
35:BC:36:A:N1	36:B1:60:A:N1	2.55	0.54
34:BA:1049:U:C5	34:BA:1201:A:O4'	2.60	0.54
34:BA:1074:G:C5	34:BA:1075:C:C6	2.95	0.54
34:BA:1160:G:C2'	34:BA:1160:G:N3	2.69	0.54
34:BA:1276:G:O2'	34:BA:1277:C:H5'	2.07	0.54
34:BA:132:C:O2'	34:BA:133:U:O4'	2.25	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:971:G:C5	34:BA:1365:G:H5'	2.43	0.54
34:BA:173:U:H5''	34:BA:197:A:H5'	1.90	0.54
34:BA:234:C:H2'	34:BA:234:C:O2	2.06	0.54
34:BA:319:G:H4'	34:BA:1468:A:C4'	2.36	0.54
34:BA:522:C:N4	34:BA:528:C:H42	2.05	0.54
34:BA:610:G:H2'	34:BA:611:A:C5'	2.34	0.54
34:BA:717:C:C2'	34:BA:718:G:OP2	2.55	0.54
34:BA:695:A:H2	34:BA:787:A:C4'	2.20	0.54
34:BA:801:U:H2'	34:BA:801:U:O2	2.07	0.54
34:BA:859:A:H2'	34:BA:860:A:C5'	2.37	0.54
34:BA:877:C:OP1	43:BK:88:LYS:HD3	2.07	0.54
34:BA:90:U:O2	34:BA:91:C:C5	2.61	0.54
34:BA:939:G:C2	34:BA:940:C:N3	2.74	0.54
34:BA:959:A:C5'	34:BA:960:U:OP2	2.54	0.54
35:BB:63:C:H2'	35:BB:64:A:H8	1.72	0.54
37:BE:116:GLU:O	37:BE:117:GLU:C	2.45	0.54
37:BE:70:PHE:HE2	37:BE:163:PHE:HB3	1.67	0.54
39:BG:191:ARG:HG3	39:BG:192:GLU:OE1	2.07	0.54
41:BI:45:LEU:HD23	41:BI:58:GLY:C	2.27	0.54
42:BJ:17:VAL:O	42:BJ:17:VAL:HG12	2.07	0.54
43:BK:64:LYS:CB	43:BK:79:VAL:HG21	2.37	0.54
44:BL:87:GLN:O	44:BL:90:PRO:HD3	2.07	0.54
46:BN:69:ALA:O	46:BN:70:LYS:C	2.43	0.54
47:BO:117:ARG:NE	47:BO:123:LYS:C	2.60	0.54
51:BS:56:ALA:O	51:BS:57:ARG:C	2.45	0.54
55:BW:79:ARG:HH11	55:BW:79:ARG:HG3	1.71	0.54
36:B1:64:C:OP2	36:B1:64:C:C6	2.60	0.54
55:BW:8:ARG:CZ	55:BW:8:ARG:HB2	2.35	0.54
2:AA:1040:C:C4	2:AA:1115:G:N1	2.75	0.54
2:AA:1620:G:O2'	2:AA:1621:U:C5'	2.54	0.54
1:AB:65:C:C5	1:AB:108:C:N4	2.75	0.54
24:A0:36:THR:HG21	24:A0:40:LYS:HB3	1.90	0.54
24:A0:76:VAL:CG1	24:A0:77:ARG:N	2.69	0.54
25:A1:58:ARG:C	25:A1:62:ILE:HG12	2.27	0.54
2:AA:2256:G:O5'	27:A3:5:LYS:CE	2.55	0.54
27:A3:65:GLY:HA2	27:A3:66:LYS:HZ1	1.72	0.54
27:A3:42:GLY:CA	27:A3:65:GLY:O	2.55	0.54
27:A3:7:VAL:HG22	35:BC:64:A:P	2.47	0.54
28:A4:18:GLY:H	28:A4:33:VAL:CG2	2.21	0.54
31:A7:19:ARG:O	31:A7:20:ALA:C	2.45	0.54
2:AA:126:A:P	31:A7:44:VAL:HG21	2.47	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1022:G:H5''	12:AM:56:LYS:HZ1	1.72	0.54
2:AA:1055:G:C2	9:AI:28:LYS:CD	2.76	0.54
2:AA:1077:A:N7	2:AA:1078:U:N3	2.55	0.54
2:AA:1083:U:C4'	9:AI:40:ALA:CB	2.69	0.54
2:AA:1087:G:C5	2:AA:1103:A:C6	2.95	0.54
2:AA:1006:C:C6	2:AA:1137:G:N2	2.75	0.54
2:AA:1212:G:C2	2:AA:1236:G:N1	2.75	0.54
2:AA:1218:C:OP2	25:A1:15:LYS:NZ	2.40	0.54
2:AA:1259:G:H2'	2:AA:1260:G:C8	2.30	0.54
2:AA:1305:C:O2'	2:AA:1306:C:H5'	2.06	0.54
2:AA:1308:A:H2	2:AA:1608:A:H61	1.54	0.54
2:AA:1364:G:H8	2:AA:1364:G:C5'	2.18	0.54
2:AA:1467:C:O2'	2:AA:1468:C:H5'	2.06	0.54
2:AA:1518:C:C3'	2:AA:1519:G:C4'	2.83	0.54
2:AA:1640:C:O2'	2:AA:1641:A:O5'	2.19	0.54
2:AA:1642:G:O2'	2:AA:1643:G:H5'	2.08	0.54
2:AA:1707:G:C6	2:AA:1708:C:N4	2.76	0.54
2:AA:1767:C:H2'	2:AA:1768:U:O4'	2.08	0.54
2:AA:1906:G:C4	2:AA:1929:G:N7	2.75	0.54
2:AA:1940:U:C5'	2:AA:1941:C:OP1	2.50	0.54
2:AA:1942:C:C6	2:AA:1943:U:H5	2.25	0.54
2:AA:1944:U:C1'	2:AA:1955:U:H1'	2.36	0.54
2:AA:1975:G:C5	2:AA:1976:U:C5	2.95	0.54
2:AA:1984:G:C2	2:AA:1985:G:C8	2.95	0.54
2:AA:2010:G:C5	2:AA:2011:U:C5	2.96	0.54
2:AA:209:C:H2'	2:AA:210:C:H6	1.72	0.54
2:AA:2093:G:H1	2:AA:2196:C:N4	2.05	0.54
2:AA:2283:C:C5	2:AA:2389:G:C4	2.96	0.54
2:AA:2352:A:C8	2:AA:2366:A:C6	2.95	0.54
2:AA:2409:G:H21	2:AA:2410:G:H1'	1.72	0.54
2:AA:2526:G:O6	2:AA:2538:C:N4	2.40	0.54
2:AA:2577:A:O2'	29:A5:4:HIS:CG	2.60	0.54
2:AA:2619:C:O2'	2:AA:2620:C:O5'	2.24	0.54
2:AA:2634:G:C2	2:AA:2635:C:C6	2.96	0.54
2:AA:2734:A:H61	5:AE:316:ARG:CZ	2.19	0.54
2:AA:2779:U:C5'	2:AA:2780:G:O5'	2.49	0.54
2:AA:2845:G:O2'	2:AA:2846:G:O4'	2.19	0.54
2:AA:2880:C:O2	24:A0:93:GLY:CA	2.54	0.54
2:AA:2888:C:H6	2:AA:2888:C:O5'	1.89	0.54
2:AA:348:G:H3'	2:AA:349:G:H8	1.73	0.54
2:AA:398:G:C2	2:AA:399:G:C1'	2.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:424:G:H21	2:AA:425:G:H1'	1.71	0.54
2:AA:220:G:H1	2:AA:427:U:H3'	1.72	0.54
2:AA:465:G:O6	2:AA:466:A:N6	2.40	0.54
2:AA:506:G:HO2'	2:AA:507:A:H8	1.54	0.54
2:AA:508:G:C5'	2:AA:509:C:OP1	2.55	0.54
2:AA:652:C:O5'	2:AA:652:C:H6	1.90	0.54
2:AA:654:A:H2	2:AA:655:A:C8	2.24	0.54
2:AA:687:C:H4'	31:A7:4:THR:HG23	1.88	0.54
2:AA:90:U:H4'	2:AA:91:A:C5'	2.38	0.54
2:AA:946:G:H3'	2:AA:946:G:C8	2.43	0.54
3:AC:100:ILE:HA	3:AC:127:LEU:HD11	1.88	0.54
4:AD:140:VAL:CA	4:AD:191:VAL:HG12	2.37	0.54
2:AA:729:G:OP1	4:AD:206:LYS:HD3	2.07	0.54
5:AE:189:MET:O	5:AE:190:ASN:CB	2.56	0.54
5:AE:81:VAL:O	5:AE:82:ALA:CB	2.55	0.54
2:AA:606:U:OP1	6:AF:105:LYS:HD2	2.06	0.54
6:AF:93:LYS:HG3	6:AF:96:LYS:HE3	1.88	0.54
7:AG:103:ASN:HA	7:AG:104:PHE:CE1	2.42	0.54
7:AG:135:VAL:HA	7:AG:139:TYR:CD2	2.41	0.54
8:AH:35:THR:O	8:AH:36:PHE:CD1	2.59	0.54
8:AH:43:THR:OG1	8:AH:50:THR:CA	2.55	0.54
8:AH:41:THR:C	8:AH:52:THR:CG2	2.75	0.54
9:AI:62:VAL:O	9:AI:125:VAL:HG13	2.07	0.54
10:AK:4:ILE:HD12	10:AK:37:ILE:HG22	1.89	0.54
9:AI:7:ILE:HD11	11:AL:118:ALA:H	1.70	0.54
12:AM:88:PRO:CG	12:AM:88:PRO:O	2.54	0.54
13:AN:87:ILE:HG22	13:AN:88:ARG:C	2.28	0.54
14:AO:104:ASP:O	14:AO:105:TYR:CD1	2.60	0.54
14:AO:117:GLU:OE2	14:AO:136:ALA:O	2.25	0.54
14:AO:61:ALA:HB1	14:AO:107:LYS:HE2	1.89	0.54
14:AO:62:ALA:H	14:AO:107:LYS:HE3	1.67	0.54
15:AP:86:ARG:NH2	15:AP:123:ILE:CD1	2.71	0.54
2:AA:873:G:P	15:AP:31:PHE:H	2.30	0.54
15:AP:82:LYS:HZ3	15:AP:84:ARG:CZ	2.18	0.54
16:AQ:118:ILE:HG23	16:AQ:119:GLN:N	2.22	0.54
16:AQ:23:ARG:NH2	16:AQ:35:VAL:HG21	2.20	0.54
16:AQ:39:SER:O	16:AQ:40:ASN:C	2.46	0.54
16:AQ:34:LEU:HA	16:AQ:47:LEU:HD23	1.88	0.54
18:AS:74:ALA:HB1	18:AS:105:VAL:HG12	1.90	0.54
20:AU:20:HIS:O	20:AU:21:LYS:C	2.45	0.54
21:AV:69:VAL:HG13	21:AV:81:VAL:CA	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AW:7:GLU:O	22:AW:10:ASP:HB2	2.06	0.54
34:BA:1025:U:H2'	34:BA:1026:G:N7	2.21	0.54
34:BA:1053:G:C4'	34:BA:1054:C:H5'	2.37	0.54
34:BA:1214:C:O2'	34:BA:1215:G:OP1	2.25	0.54
34:BA:1273:G:H2'	34:BA:1274:G:O4'	2.07	0.54
34:BA:1279:A:H5''	34:BA:1280:A:OP1	2.06	0.54
34:BA:1260:C:O5'	34:BA:1284:C:H4'	2.06	0.54
34:BA:1349:A:C2'	34:BA:1350:A:H5'	2.37	0.54
34:BA:1422:G:C2	34:BA:1479:C:N3	2.75	0.54
34:BA:1464:G:C4	34:BA:1465:C:H5	2.24	0.54
34:BA:271:C:H2'	34:BA:272:C:H6	1.71	0.54
34:BA:330:C:H2'	34:BA:331:G:H8	1.72	0.54
34:BA:373:A:C6	34:BA:482:A:N6	2.75	0.54
34:BA:434:U:H2'	34:BA:435:C:H6	1.70	0.54
34:BA:451:A:C8	34:BA:481:G:N1	2.75	0.54
34:BA:532:A:O2'	34:BA:533:A:OP1	2.23	0.54
34:BA:663:A:H2	34:BA:742:G:H22	1.48	0.54
34:BA:658:G:O6	34:BA:747:C:N3	2.41	0.54
34:BA:938:A:C2	34:BA:939:G:C4	2.96	0.54
34:BA:988:G:C6	34:BA:1217:C:N3	2.76	0.54
35:BC:36:A:C2	35:BC:37:G:N9	2.76	0.54
2:AA:2602:A:P	35:BC:75:C:OP1	2.65	0.54
38:BF:30:ARG:HG3	38:BF:31:HIS:N	2.22	0.54
39:BG:163:GLU:CG	39:BG:164:ALA:N	2.56	0.54
39:BG:60:GLU:OE2	39:BG:199:ASN:HB3	2.08	0.54
39:BG:43:HIS:ND1	39:BG:46:LYS:CE	2.68	0.54
39:BG:92:VAL:O	39:BG:96:LEU:CD1	2.55	0.54
40:BH:125:SER:C	40:BH:127:ASN:H	2.07	0.54
41:BI:28:ARG:HG3	41:BI:28:ARG:HH11	1.73	0.54
41:BI:79:LEU:HD23	41:BI:79:LEU:N	2.22	0.54
42:BJ:156:TRP:OXT	42:BJ:156:TRP:CD1	2.60	0.54
34:BA:1373:G:C4'	42:BJ:36:LYS:HZ3	2.19	0.54
34:BA:942:G:N2	44:BL:124:GLN:NE2	2.47	0.54
45:BM:75:ILE:O	45:BM:76:ASN:CB	2.55	0.54
46:BN:22:HIS:ND1	46:BN:29:ILE:HD11	2.21	0.54
46:BN:12:ARG:HD2	46:BN:75:TYR:CE2	2.43	0.54
47:BO:43:VAL:CG2	47:BO:55:VAL:HG21	2.36	0.54
50:BR:39:LEU:HD22	50:BR:56:LEU:CD1	2.36	0.54
50:BR:9:GLN:C	50:BR:11:VAL:N	2.59	0.54
51:BS:60:LEU:O	51:BS:62:VAL:O	2.26	0.54
52:BT:91:ARG:HA	52:BT:94:ASN:HD22	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:96:GLN:NE2	52:BT:97:SER:CA	2.70	0.54
10:AK:108:LEU:CD2	10:AK:109:LYS:N	2.68	0.54
45:BM:12:ASP:C	45:BM:14:LYS:H	2.10	0.54
1:AB:38:C:N4	1:AB:39:A:N6	2.54	0.54
25:A1:63:GLN:O	25:A1:66:ASN:N	2.39	0.54
25:A1:65:ILE:CG1	25:A1:96:ALA:HB2	2.37	0.54
26:A2:6:GLN:OE1	26:A2:10:LYS:CG	2.55	0.54
28:A4:26:SER:C	28:A4:27:THR:HG23	2.27	0.54
32:A8:26:LYS:HE3	32:A8:45:GLY:N	2.23	0.54
2:AA:1022:G:P	12:AM:52:GLN:NE2	2.81	0.54
2:AA:1137:G:O2'	12:AM:82:THR:HA	2.08	0.54
2:AA:1021:A:N7	2:AA:1140:C:N4	2.52	0.54
2:AA:1143:A:N3	2:AA:1144:G:C8	2.75	0.54
2:AA:988:A:H4'	2:AA:1155:A:C2	2.42	0.54
2:AA:1247:A:HO2'	2:AA:1248:G:P	2.30	0.54
2:AA:1392:A:H2'	2:AA:1393:A:N9	2.22	0.54
2:AA:1467:C:O4'	2:AA:1467:C:OP1	2.25	0.54
2:AA:1492:G:H22	2:AA:1499:C:N4	2.03	0.54
2:AA:1339:G:N2	2:AA:1603:A:C8	2.72	0.54
2:AA:1605:C:C5	2:AA:1606:G:C4	2.96	0.54
2:AA:1658:C:OP1	5:AE:230:GLY:CA	2.56	0.54
2:AA:1789:A:H2'	2:AA:1790:C:O4'	2.07	0.54
2:AA:182:A:O2'	2:AA:183:C:H5'	2.06	0.54
2:AA:1913:A:C2'	2:AA:1913:A:N3	2.70	0.54
2:AA:2018:G:C6	2:AA:2019:A:C5	2.95	0.54
2:AA:2254:C:H2'	2:AA:2255:G:C5'	2.36	0.54
2:AA:2302:G:C6	2:AA:2315:G:C6	2.96	0.54
2:AA:2338:G:O5'	2:AA:2338:G:H8	1.91	0.54
2:AA:2340:G:C2	2:AA:2341:G:C8	2.95	0.54
2:AA:2460:U:C6	2:AA:2461:C:C5	2.95	0.54
2:AA:2492:U:N3	2:AA:2493:U:C5	2.76	0.54
2:AA:2049:G:N2	2:AA:2620:C:C2	2.75	0.54
2:AA:2691:C:C4	2:AA:2719:G:N2	2.76	0.54
2:AA:2706:G:C2	2:AA:2707:G:C5	2.96	0.54
2:AA:270(I):G:H1	2:AA:270(Q):C:H42	0.73	0.54
2:AA:273:G:C6	2:AA:273(A):G:O6	2.60	0.54
2:AA:285:C:C3'	2:AA:286:C:C6	2.91	0.54
2:AA:338:G:N7	20:AU:18:GLU:HG3	2.22	0.54
2:AA:653:A:H5'	2:AA:654:A:H4'	1.90	0.54
2:AA:858:U:H3'	2:AA:859:G:O4'	2.07	0.54
2:AA:875:G:H2'	2:AA:876:C:C6	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:876:C:C4	2:AA:877:U:C4	2.95	0.54
2:AA:885:C:H6	2:AA:885:C:H3'	1.71	0.54
2:AA:974:G:O3'	26:A2:82:ARG:NH2	2.40	0.54
2:AA:535:C:O3'	2:AA:994:C:N3	2.40	0.54
3:AC:56:GLN:HG3	3:AC:201:PRO:CG	2.36	0.54
5:AE:201:VAL:H	5:AE:266:LYS:CD	2.18	0.54
5:AE:211:GLN:NE2	5:AE:216:ARG:N	2.54	0.54
9:AI:1:MET:CE	11:AL:10:LYS:NZ	2.70	0.54
9:AI:17:GLU:O	9:AI:21:LEU:HB2	2.07	0.54
9:AI:25:LEU:HA	9:AI:28:LYS:HG3	1.90	0.54
9:AI:25:LEU:O	9:AI:28:LYS:HB2	2.07	0.54
9:AJ:42:ALA:HB3	9:AJ:43:PRO:CD	2.35	0.54
12:AM:15:ARG:HD3	12:AM:43:ARG:HH11	1.71	0.54
12:AM:15:ARG:NE	12:AM:40:ASN:CG	2.61	0.54
2:AA:519:U:H5'	18:AS:75:TYR:HB2	1.89	0.54
18:AS:81:ALA:CB	18:AS:99:ARG:HH11	2.20	0.54
19:AT:16:ASN:HD22	19:AT:20:PHE:HZ	1.54	0.54
21:AV:103:ARG:NH1	21:AV:137:ASP:HB2	2.23	0.54
21:AV:138:VAL:O	21:AV:140:LYS:HG3	2.08	0.54
21:AV:3:LEU:HB3	21:AV:34:LEU:CB	2.25	0.54
34:BA:1026:G:H2'	34:BA:1027:C:C5'	2.31	0.54
34:BA:1032:G:C2'	34:BA:1033:G:O4'	2.55	0.54
34:BA:1137:C:H5'	34:BA:1138:G:N1	2.22	0.54
34:BA:1148:U:C4	34:BA:1149:C:N3	2.76	0.54
34:BA:1308:U:C5'	48:BP:110:ARG:HH22	2.20	0.54
34:BA:1441:G:H2'	34:BA:1460:A:H61	1.72	0.54
34:BA:1476:G:O5'	34:BA:1476:G:C8	2.60	0.54
34:BA:1392:G:O2'	34:BA:1502:A:H5'	2.06	0.54
34:BA:1532:U:C3'	34:BA:1532:U:C6	2.81	0.54
34:BA:152:A:H62	34:BA:169:C:N4	2.05	0.54
34:BA:15:G:C2	34:BA:16:A:N7	2.75	0.54
34:BA:242:C:H2'	34:BA:243:A:H5'	1.90	0.54
34:BA:246:A:N6	34:BA:281:G:N2	2.55	0.54
34:BA:296:U:C2	34:BA:297:G:C8	2.94	0.54
34:BA:378:G:H2'	34:BA:379:C:H6	1.72	0.54
34:BA:523:A:N6	47:BO:53:ARG:NH2	2.49	0.54
34:BA:499:A:C4	34:BA:547:A:C6	2.95	0.54
34:BA:581:G:HO2'	34:BA:582:U:P	2.29	0.54
34:BA:596:C:N4	34:BA:645:C:C2	2.75	0.54
34:BA:671:G:N3	34:BA:671:G:H2'	2.22	0.54
34:BA:838:G:C2	34:BA:849:C:N3	2.76	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:858:G:H1	34:BA:869:G:H3'	1.73	0.54
34:BA:902:G:H2'	34:BA:903:G:O4'	2.08	0.54
34:BA:909:A:O5'	34:BA:909:A:C8	2.61	0.54
34:BA:924:C:H2'	34:BA:925:G:C8	2.42	0.54
35:BB:74:C:H2'	35:BB:75:C:C4'	2.36	0.54
35:BC:24:G:O2'	35:BC:25:C:H5'	2.07	0.54
35:BC:71:G:O2'	35:BC:72:C:H5'	2.08	0.54
37:BE:77:ALA:HB2	37:BE:211:ILE:CD1	2.37	0.54
39:BG:101:LEU:CB	39:BG:138:TYR:O	2.55	0.54
39:BG:191:ARG:NH1	39:BG:194:LEU:O	2.40	0.54
42:BJ:108:ALA:O	42:BJ:109:ASN:C	2.45	0.54
42:BJ:5:ARG:O	42:BJ:6:ARG:CB	2.53	0.54
43:BK:82:HIS:HB3	43:BK:138:TRP:CD1	2.42	0.54
43:BK:28:ALA:HA	43:BK:59:LEU:HB2	1.89	0.54
43:BK:47:GLY:O	43:BK:61:VAL:CG1	2.50	0.54
44:BL:53:VAL:O	44:BL:53:VAL:HG12	2.08	0.54
46:BN:65:ALA:HB1	46:BN:98:LEU:HG	1.88	0.54
47:BO:76:ASN:O	47:BO:77:LEU:CB	2.54	0.54
47:BO:84:LEU:H	47:BO:104:VAL:CG1	2.14	0.54
49:BQ:14:PRO:HB2	49:BQ:16:PHE:O	2.07	0.54
49:BQ:36:PHE:C	49:BQ:36:PHE:HD1	2.10	0.54
49:BQ:58:LYS:NZ	49:BQ:59:ALA:O	2.40	0.54
49:BQ:6:LEU:C	49:BQ:8:GLU:N	2.57	0.54
52:BT:43:LEU:CD2	52:BT:44:ALA:N	2.69	0.54
56:BX:7:ARG:HG3	56:BX:7:ARG:O	2.07	0.54
21:AV:26:LYS:CD	21:AV:27:GLU:OE2	2.52	0.54
26:A2:6:GLN:CD	26:A2:10:LYS:HG2	2.28	0.54
26:A2:30:GLY:O	26:A2:31:ASP:O	2.25	0.54
26:A2:3:ALA:HB2	26:A2:44:GLN:CD	2.27	0.54
26:A2:36:LYS:HA	26:A2:60:VAL:HG22	1.90	0.54
26:A2:69:ILE:CA	26:A2:90:PHE:O	2.55	0.54
29:A5:43:HIS:C	29:A5:44:HIS:ND1	2.61	0.54
2:AA:2022:U:O4	29:A5:9:LYS:NZ	2.40	0.54
2:AA:1031:G:H4'	33:A9:8:LYS:HZ3	1.73	0.54
2:AA:1020:A:C2'	2:AA:1021:A:OP2	2.56	0.54
2:AA:1023:U:O4	2:AA:1024:G:N3	2.40	0.54
2:AA:1085:A:O2'	2:AA:1086:A:C5'	2.55	0.54
2:AA:1248:G:O2'	2:AA:1249:U:P	2.66	0.54
2:AA:1281:G:O2'	2:AA:1282:U:H5'	2.07	0.54
2:AA:1353:A:C6	2:AA:1354:A:N7	2.76	0.54
2:AA:1381:G:C6	2:AA:1382:G:C5	2.96	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1413:G:C6	2:AA:1414:G:N7	2.76	0.54
2:AA:1414:G:C2	2:AA:1415:U:N3	2.75	0.54
2:AA:145:G:H21	2:AA:146:G:H1'	1.72	0.54
2:AA:1527:G:N2	2:AA:1544:C:C2	2.75	0.54
2:AA:1567:A:N1	4:AD:84:PRO:HD3	2.22	0.54
2:AA:1741:C:H2'	2:AA:1741:C:O2	2.06	0.54
2:AA:1773:A:H3'	2:AA:1773:A:C8	2.43	0.54
2:AA:1961:C:H2'	2:AA:1962:C:O4'	2.07	0.54
2:AA:1970:A:O2'	2:AA:1971:A:P	2.65	0.54
2:AA:2329:G:O2'	2:AA:2330:G:H5'	2.08	0.54
2:AA:2391:G:O2'	2:AA:2392:A:C5'	2.51	0.54
2:AA:244:A:OP1	14:AO:52:LYS:NZ	2.40	0.54
2:AA:2656:U:N3	2:AA:2665:A:N6	2.55	0.54
2:AA:2877:G:C2	2:AA:2878:U:C2	2.96	0.54
2:AA:452:G:N2	2:AA:457:A:H2	2.03	0.54
2:AA:583:G:H2'	2:AA:584:C:O5'	2.08	0.54
2:AA:585:G:H2'	2:AA:586:A:N7	2.22	0.54
2:AA:627:A:N7	14:AO:109:LEU:CD2	2.70	0.54
2:AA:643:A:H8	2:AA:643:A:H3'	1.72	0.54
2:AA:785:G:N2	2:AA:786:C:C1'	2.70	0.54
2:AA:835:A:C4'	2:AA:2358:G:H1'	2.38	0.54
2:AA:9:U:H2'	2:AA:9:U:O2	2.06	0.54
4:AD:149:ARG:H	4:AD:152:GLN:HE22	1.55	0.54
5:AE:101:THR:OG1	5:AE:103:GLU:OE2	2.24	0.54
5:AE:222:ARG:CZ	5:AE:232:ARG:O	2.56	0.54
5:AE:70:VAL:CG1	5:AE:296:VAL:O	2.49	0.54
6:AF:89:ALA:HB1	6:AF:90:HIS:NE2	2.22	0.54
7:AG:24:HIS:HB2	7:AG:72:LYS:CD	2.38	0.54
8:AH:34:ARG:CG	8:AH:35:THR:H	2.17	0.54
8:AH:43:THR:OG1	8:AH:50:THR:C	2.46	0.54
8:AH:66:THR:HG22	8:AH:67:THR:N	2.22	0.54
9:AJ:71:ILE:HG12	11:AL:62:GLU:N	2.21	0.54
10:AK:12:LYS:NZ	10:AK:14:LYS:CE	2.70	0.54
10:AK:2:LYS:HG3	10:AK:18:ILE:HD12	1.89	0.54
11:AL:92:PRO:C	11:AL:94:ARG:N	2.61	0.54
12:AM:60:ARG:HA	12:AM:71:TYR:CE2	2.42	0.54
13:AN:20:LEU:HB2	13:AN:44:LYS:HZ3	1.71	0.54
15:AP:136:TRP:HE3	15:AP:136:TRP:HA	1.71	0.54
13:AN:74:GLY:O	17:AR:17:THR:HG21	2.08	0.54
17:AR:14:GLU:O	17:AR:18:GLY:N	2.35	0.54
17:AR:53:ASP:C	17:AR:56:ARG:HG3	2.28	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1341:U:C2'	19:AT:53:ASN:OD1	2.55	0.54
20:AU:14:ALA:CB	20:AU:15:PRO:CD	2.85	0.54
20:AU:46:ASP:O	20:AU:62:VAL:CB	2.53	0.54
21:AV:166:LEU:HD13	21:AV:167:THR:HG23	1.89	0.54
21:AV:18:MET:N	21:AV:36:ARG:NE	2.55	0.54
23:AX:17:LYS:O	23:AX:20:LYS:N	2.41	0.54
23:AX:18:ASP:O	23:AX:21:ALA:CA	2.56	0.54
23:AX:38:GLU:OE1	23:AX:40:THR:CG2	2.56	0.54
23:AX:50:VAL:O	23:AX:53:LEU:HB2	2.06	0.54
34:BA:1037:C:O2'	34:BA:1038:C:H5'	2.08	0.54
34:BA:1052:U:H5''	34:BA:1053:G:OP2	2.07	0.54
34:BA:1119:C:H6	34:BA:1119:C:O5'	1.90	0.54
34:BA:1224:G:O2'	34:BA:1225:A:OP1	2.24	0.54
34:BA:1264:C:O2'	34:BA:1265:G:H5'	2.07	0.54
34:BA:1292:U:O2'	34:BA:1293:G:O4'	2.21	0.54
34:BA:1392:G:H2'	34:BA:1393:U:C5	2.36	0.54
34:BA:328:C:O2'	34:BA:329:A:P	2.66	0.54
34:BA:350:G:C2	34:BA:351:G:C2	2.96	0.54
34:BA:463:A:N7	34:BA:474:G:N7	2.55	0.54
34:BA:511:C:O2'	34:BA:512:U:P	2.65	0.54
34:BA:596:C:O2	34:BA:596:C:H2'	2.07	0.54
34:BA:70:G:C6	34:BA:73:C:N4	2.75	0.54
34:BA:664:G:H1'	34:BA:726:C:H4'	1.90	0.54
34:BA:729:A:C2'	34:BA:730:G:O5'	2.55	0.54
34:BA:787:A:C2'	34:BA:788:U:O5'	2.56	0.54
34:BA:889:A:C5'	34:BA:890:G:OP1	2.53	0.54
35:BB:56:C:C4'	35:BB:56:C:H6	2.19	0.54
35:BC:21:A:N7	35:BC:46:G:O6	2.41	0.54
35:BC:55:U:C2	35:BC:58:A:OP2	2.61	0.54
37:BE:170:GLU:C	37:BE:174:VAL:HG23	2.27	0.54
37:BE:199:TYR:O	37:BE:201:ILE:HD13	2.08	0.54
37:BE:19:HIS:CD2	37:BE:20:GLU:CD	2.80	0.54
37:BE:69:LEU:HD13	37:BE:70:PHE:N	2.22	0.54
38:BF:173:VAL:O	38:BF:175:LEU:N	2.40	0.54
38:BF:152:ILE:HB	38:BF:199:LYS:HB2	1.88	0.54
41:BI:20:ALA:O	41:BI:24:GLU:HB3	2.06	0.54
42:BJ:12:LEU:O	42:BJ:14:PRO:CD	2.55	0.54
42:BJ:14:PRO:HD3	42:BJ:21:VAL:CG1	2.38	0.54
42:BJ:49:ILE:HG22	42:BJ:125:MET:CE	2.38	0.54
43:BK:14:ARG:O	43:BK:17:THR:CB	2.55	0.54
44:BL:99:LEU:HD22	44:BL:99:LEU:N	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BM:40:LEU:CD1	45:BM:71:LEU:HG	2.38	0.54
45:BM:51:ARG:HB2	45:BM:59:SER:CB	2.18	0.54
47:BO:55:VAL:C	47:BO:70:ILE:HD11	2.28	0.54
47:BO:93:LEU:HG	47:BO:96:VAL:CG2	2.37	0.54
48:BP:108:ARG:CZ	48:BP:111:LYS:HB3	2.37	0.54
48:BP:81:LEU:HD23	48:BP:89:GLY:CA	2.37	0.54
34:BA:463:A:P	51:BS:75:ARG:HH22	2.31	0.54
55:BW:57:ARG:HH21	55:BW:100:ILE:CB	2.20	0.54
10:AK:133:LEU:HD11	10:AK:139:ALA:CB	2.37	0.54
35:BB:11:C:C2	35:BB:12:U:C4	2.96	0.54
2:AA:1050:A:N6	2:AA:2751:G:C5	2.76	0.54
11:AL:52:MET:CA	11:AL:81:LYS:HE3	2.37	0.54
1:AB:38:C:H6	1:AB:38:C:O5'	1.91	0.54
24:A0:20:LEU:HD13	24:A0:24:GLN:HG3	1.88	0.54
2:AA:1453:A:C6	24:A0:77:ARG:HD3	2.42	0.54
26:A2:20:ILE:CG1	26:A2:67:LYS:HZ3	2.20	0.54
2:AA:17:G:OP1	29:A5:13:LYS:NZ	2.41	0.54
32:A8:26:LYS:NZ	32:A8:43:GLY:HA2	2.21	0.54
2:AA:2527:C:O3'	33:A9:30:VAL:CG1	2.56	0.54
33:A9:30:VAL:O	33:A9:32:HIS:N	2.40	0.54
2:AA:1021:A:C2	2:AA:1122:G:C5'	2.89	0.54
2:AA:1024:G:N7	2:AA:1025:G:C4	2.76	0.54
2:AA:1111:A:H4'	2:AA:1112:G:O5'	2.08	0.54
2:AA:1245:G:H2'	2:AA:1246:A:H5'	1.89	0.54
2:AA:1248:G:C8	25:A1:2:PRO:CB	2.90	0.54
2:AA:1300:U:HO2'	2:AA:1301:A:P	2.31	0.54
2:AA:1342:A:N7	2:AA:1601:G:O6	2.40	0.54
2:AA:135:G:H1	2:AA:144:C:H42	0.63	0.54
2:AA:1362:C:H2'	2:AA:1363:C:C6	2.41	0.54
2:AA:137:C:O4'	2:AA:137:C:P	2.66	0.54
2:AA:1454:U:O2	2:AA:1454:U:C2'	2.47	0.54
2:AA:1680:U:O2	2:AA:1764:G:C5'	2.56	0.54
2:AA:1776:G:C2	2:AA:1777:U:C2	2.95	0.54
2:AA:1805:U:H3'	2:AA:1805:U:P	2.48	0.54
2:AA:1881:C:H5''	2:AA:1881:C:H6	1.73	0.54
2:AA:197:A:H2'	2:AA:198:C:H6	1.71	0.54
2:AA:2003:G:O6	2:AA:2004:G:C6	2.61	0.54
2:AA:2045:C:H2'	2:AA:2046:G:O4'	2.08	0.54
2:AA:2065:C:H2'	2:AA:2066:C:C6	2.42	0.54
2:AA:965:C:H4'	2:AA:2273:A:N3	2.22	0.54
2:AA:2307:G:C1'	2:AA:2311:A:N6	2.68	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2309:A:H5''	2:AA:2310:A:OP2	2.08	0.54
2:AA:2376:A:H61	16:AQ:109:PRO:CG	2.20	0.54
2:AA:2396:G:C2'	2:AA:2396:G:N3	2.70	0.54
2:AA:2403:C:C2	2:AA:2404:C:C6	2.96	0.54
2:AA:2450:A:C2	2:AA:2451:A:H1'	2.42	0.54
2:AA:2569:G:N3	2:AA:2570:G:C8	2.75	0.54
2:AA:2570:G:H3'	2:AA:2571:C:H6	1.72	0.54
2:AA:1782:C:H41	2:AA:2587:A:N6	2.00	0.54
2:AA:2634:G:H2'	2:AA:2635:C:O5'	2.07	0.54
2:AA:2653:U:OP2	2:AA:2654:A:H3'	2.07	0.54
2:AA:2678:C:H42	2:AA:2729:G:H1	1.55	0.54
2:AA:272:G:H2'	2:AA:273:G:C8	2.42	0.54
2:AA:273(D):C:H2'	2:AA:273(E):U:H5'	1.88	0.54
2:AA:2811:G:O2'	2:AA:2812:G:H5'	2.08	0.54
2:AA:286:C:C4	2:AA:287:C:C5	2.96	0.54
2:AA:339:U:C4	2:AA:340:A:N6	2.75	0.54
2:AA:528:A:N6	2:AA:2042:A:H8	2.05	0.54
2:AA:543:C:C4	2:AA:551:G:N1	2.76	0.54
2:AA:604:G:N2	2:AA:657:U:H5''	2.22	0.54
2:AA:715:G:H3'	2:AA:715:G:P	2.44	0.54
2:AA:792:G:HO2'	2:AA:793:A:P	2.29	0.54
1:AB:17:C:C2'	1:AB:18:G:C8	2.90	0.54
5:AE:200:ASP:HA	5:AE:266:LYS:CG	2.38	0.54
5:AE:205:THR:HG21	5:AE:259:HIS:H	1.72	0.54
5:AE:225:LYS:HA	5:AE:228:ARG:HH12	1.72	0.54
6:AF:111:VAL:O	6:AF:115:LEU:HD23	2.08	0.54
7:AG:11:HIS:C	7:AG:13:MET:H	2.11	0.54
8:AH:114:ILE:HG21	8:AH:147:ILE:HD13	1.89	0.54
8:AH:83:GLU:OE2	8:AH:84:LYS:N	2.40	0.54
9:AJ:61:VAL:HG13	9:AJ:115:LYS:HG2	1.89	0.54
9:AJ:63:LEU:HD13	9:AJ:66:PHE:CE1	2.42	0.54
11:AL:65:SER:O	11:AL:66:PHE:HB2	2.08	0.54
13:AN:23:LYS:HB3	13:AN:40:VAL:HB	1.89	0.54
13:AN:43:VAL:HB	13:AN:55:GLY:N	2.23	0.54
13:AN:64:ARG:NH1	13:AN:100:GLY:HA3	2.22	0.54
13:AN:97:ARG:HA	13:AN:117:LEU:CD1	2.24	0.54
14:AO:94:ARG:CZ	14:AO:118:LEU:C	2.76	0.54
15:AP:16:ARG:NH1	15:AP:19:TYR:CD1	2.76	0.54
16:AQ:100:ALA:CB	16:AQ:127:LEU:HD21	2.34	0.54
19:AT:56:ASN:N	19:AT:56:ASN:ND2	2.56	0.54
19:AT:54:THR:HG22	19:AT:64:ALA:CB	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AU:103:LEU:HA	20:AU:108:ARG:CB	2.37	0.54
20:AU:29:ALA:O	20:AU:33:GLU:OE2	2.25	0.54
20:AU:86:GLU:O	20:AU:87:VAL:HG23	2.08	0.54
21:AV:159:THR:C	21:AV:160:LEU:HD12	2.28	0.54
21:AV:55:THR:HG23	21:AV:61:THR:HG21	1.89	0.54
21:AV:95:SER:HA	21:AV:121:GLN:O	2.06	0.54
34:BA:1054:C:C2'	34:BA:1055:A:H5''	2.38	0.54
34:BA:1108:G:N7	34:BA:1109:C:C4	2.75	0.54
34:BA:1111:A:C2	34:BA:1112:C:N3	2.76	0.54
34:BA:1128:C:O2	34:BA:1130:A:C5	2.61	0.54
34:BA:1306:A:H2'	34:BA:1307:U:H5'	1.88	0.54
34:BA:1326:C:O2'	34:BA:1327:C:O4'	2.19	0.54
34:BA:144:G:C2	34:BA:179:A:C2	2.95	0.54
34:BA:1430:C:C2	34:BA:1471:G:C2	2.95	0.54
34:BA:1531:A:OP2	34:BA:1531:A:C8	2.61	0.54
34:BA:1535:C:N4	36:B1:55:U:O4	2.38	0.54
34:BA:187:C:H2'	34:BA:188:C:H6	1.72	0.54
34:BA:319:G:C5'	34:BA:1468:A:H4'	2.37	0.54
34:BA:35:G:O2'	34:BA:36:C:H5'	2.08	0.54
34:BA:449:C:C2	34:BA:450:G:C1'	2.88	0.54
34:BA:25:C:H4'	34:BA:524:G:N2	2.21	0.54
34:BA:597:G:C8	34:BA:644:G:N2	2.76	0.54
34:BA:293:G:H4'	34:BA:609:A:N1	2.22	0.54
34:BA:789:U:O2'	34:BA:791:G:N7	2.41	0.54
35:BB:3:G:O2'	35:BB:4:G:H5'	2.07	0.54
35:BB:53:G:N2	35:BB:54:U:C2	2.75	0.54
35:BB:65:G:C2	35:BB:66:A:N7	2.75	0.54
35:BC:55:U:C2'	35:BC:57:G:N7	2.70	0.54
37:BE:160:ASP:O	37:BE:161:ALA:CB	2.55	0.54
37:BE:163:PHE:CD2	37:BE:164:VAL:N	2.76	0.54
37:BE:213:LEU:O	37:BE:217:ARG:HG2	2.07	0.54
37:BE:9:GLU:CG	37:BE:217:ARG:NH2	2.60	0.54
38:BF:116:VAL:HG21	38:BF:141:VAL:HG22	1.88	0.54
38:BF:182:ILE:CG2	38:BF:202:ILE:O	2.56	0.54
39:BG:19:LEU:HA	39:BG:21:LEU:HG	1.90	0.54
40:BH:127:ASN:OD1	40:BH:130:ASN:N	2.41	0.54
40:BH:141:GLN:CA	40:BH:143:ARG:NH2	2.66	0.54
40:BH:144:THR:HG22	40:BH:146:ALA:H	1.72	0.54
44:BL:43:ALA:O	44:BL:45:ALA:N	2.40	0.54
45:BM:87:THR:O	45:BM:88:LEU:HD23	2.08	0.54
47:BO:29:GLY:O	47:BO:30:ALA:O	2.25	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:98:VAL:HG23	48:BP:110:ARG:HH21	1.72	0.54
50:BR:4:THR:HB	50:BR:6:GLU:OE2	2.08	0.54
51:BS:43:LYS:HG3	51:BS:48:TRP:CZ3	2.42	0.54
51:BS:51:VAL:O	51:BS:52:ASP:C	2.45	0.54
51:BS:54:GLU:O	51:BS:57:ARG:N	2.41	0.54
34:BA:280:C:C1'	52:BT:38:ARG:NE	2.66	0.54
54:BV:5:LEU:O	54:BV:6:LYS:HB2	2.08	0.54
55:BW:25:ARG:O	55:BW:28:ALA:HB3	2.06	0.54
56:BX:16:GLY:O	56:BX:17:THR:C	2.46	0.54
10:AK:124:LEU:HG	10:AK:145:VAL:C	2.27	0.54
10:AK:76:THR:HG22	10:AK:142:LYS:HE2	1.88	0.54
37:BE:131:PRO:HA	37:BE:132:LYS:HE2	1.89	0.54
37:BE:131:PRO:HB2	37:BE:133:LYS:HG2	1.90	0.54
2:AA:2108:C:H3'	2:AA:2109:U:C6	2.42	0.54
45:BM:14:LYS:O	45:BM:17:ASP:HB2	2.08	0.54
25:A1:13:ARG:CD	25:A1:16:LYS:HZ3	2.12	0.54
25:A1:34:ASN:O	25:A1:35:ALA:O	2.25	0.54
2:AA:1155:A:C4'	25:A1:55:ARG:HH12	2.17	0.54
26:A2:19:VAL:O	26:A2:20:ILE:O	2.26	0.54
26:A2:42:GLY:N	26:A2:54:TYR:CZ	2.73	0.54
27:A3:19:LYS:O	27:A3:72:LYS:NZ	2.34	0.54
27:A3:32:LYS:NZ	27:A3:40:GLN:OE1	2.33	0.54
2:AA:2256:G:O5'	27:A3:5:LYS:HE2	2.07	0.54
30:A6:16:ALA:HB1	30:A6:42:PRO:HD3	1.89	0.54
2:AA:2400:G:O2'	30:A6:20:PHE:CE1	2.59	0.54
2:AA:999:U:C2'	2:AA:1000:A:H5'	2.38	0.54
2:AA:1026:U:C3'	2:AA:1026:U:C6	2.90	0.54
2:AA:1064:C:H3'	2:AA:1065:U:C5	2.42	0.54
2:AA:1005:C:C5	2:AA:1143:A:H5''	2.42	0.54
2:AA:1203:G:C5	2:AA:1206:G:N7	2.75	0.54
2:AA:1243:G:C4	2:AA:1244:G:N7	2.75	0.54
2:AA:126:A:C4'	31:A7:19:ARG:HE	2.19	0.54
2:AA:1426:G:N7	2:AA:1427:A:N7	2.55	0.54
2:AA:1496:A:H2'	2:AA:1497:U:C6	2.42	0.54
2:AA:1521:G:H5'	2:AA:1522:G:N7	2.22	0.54
2:AA:1523:U:N3	2:AA:1524:G:C4	2.75	0.54
2:AA:1624:G:C5	2:AA:1625:C:N4	2.73	0.54
2:AA:1633:G:O6	2:AA:1635:G:N2	2.41	0.54
2:AA:1696:G:H2'	2:AA:1697:G:O4'	2.08	0.54
2:AA:1785:A:H3'	2:AA:1785:A:H8	1.71	0.54
2:AA:1856:G:N7	2:AA:1857:G:C2	2.75	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1914:C:OP1	2:AA:1915:U:OP2	2.26	0.54
2:AA:1926:U:N3	2:AA:1929:G:C2	2.76	0.54
2:AA:1975:G:C2'	2:AA:1976:U:O5'	2.56	0.54
2:AA:205:G:O2'	2:AA:206:U:OP2	2.26	0.54
2:AA:2070:G:C6	2:AA:2071:A:C6	2.95	0.54
2:AA:2146:C:C2'	2:AA:2147:G:N3	2.61	0.54
2:AA:2308:G:C5'	2:AA:2309:A:OP1	2.44	0.54
2:AA:2312:U:O2'	7:AG:72:LYS:CE	2.56	0.54
2:AA:2354:G:O4'	27:A3:31:VAL:CG2	2.53	0.54
2:AA:2355:C:C4	2:AA:2356:C:C4	2.95	0.54
2:AA:2357:U:H6	2:AA:2357:U:O5'	1.91	0.54
2:AA:2349:G:C6	2:AA:2369:A:C6	2.95	0.54
2:AA:2385:C:HO2'	2:AA:2386:C:P	2.31	0.54
2:AA:2396:G:N2	2:AA:2397:G:C4	2.76	0.54
2:AA:2078:C:H5'	2:AA:2434:A:C4'	2.38	0.54
2:AA:2461:C:C2	2:AA:2462:U:C5	2.96	0.54
2:AA:2476:A:C2	2:AA:2481:G:N2	2.75	0.54
2:AA:2492:U:O2'	2:AA:2493:U:C5'	2.56	0.54
2:AA:2538:C:O2'	2:AA:2539:C:C5'	2.56	0.54
2:AA:2554:U:H3'	2:AA:2554:U:C6	2.42	0.54
2:AA:2563:U:H4'	13:AN:27:GLY:HA2	1.87	0.54
2:AA:2588:G:C2'	2:AA:2589:A:H5'	2.37	0.54
2:AA:2633:G:C2	2:AA:2634:G:C4	2.96	0.54
2:AA:27:G:H3'	2:AA:27:G:C8	2.43	0.54
2:AA:2845:G:OP2	2:AA:2845:G:H3'	2.07	0.54
2:AA:398:G:OP2	28:A4:59:PHE:CZ	2.61	0.54
2:AA:587:C:O2'	2:AA:588:U:P	2.66	0.54
2:AA:638:G:C4	2:AA:639:U:O2	2.60	0.54
2:AA:874:G:N3	2:AA:874:G:H2'	2.21	0.54
2:AA:859:G:N2	2:AA:917:A:OP2	2.40	0.54
1:AB:31:C:C2	1:AB:32:C:C5	2.94	0.54
1:AB:24:G:C6	1:AB:56:G:N3	2.75	0.54
3:AC:72:VAL:O	3:AC:72:VAL:HG12	2.08	0.54
3:AC:84:LYS:HD3	3:AC:87:GLU:OE1	2.08	0.54
4:AD:154:VAL:CG2	4:AD:160:SER:HA	2.29	0.54
4:AD:210:LYS:HG3	4:AD:211:HIS:N	2.14	0.54
5:AE:41:PHE:HZ	5:AE:173:ARG:CD	2.20	0.54
2:AA:1655:A:H5'	5:AE:211:GLN:HA	1.85	0.54
5:AE:247:ARG:HB2	5:AE:249:THR:HG1	1.73	0.54
6:AF:161:ASP:O	6:AF:162:VAL:CG2	2.45	0.54
7:AG:107:GLY:C	7:AG:129:ASP:H	2.11	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:41:LEU:HA	7:AG:44:ILE:HD12	1.90	0.54
2:AA:1061:U:H2'	11:AL:12:GLN:NE2	2.23	0.54
11:AL:15:ALA:HA	11:AL:46:THR:HG21	1.89	0.54
9:AJ:89:LYS:HE2	11:AL:61:TYR:CD2	2.43	0.54
12:AM:65:ASN:ND2	12:AM:69:TYR:CD1	2.73	0.54
13:AN:34:ASN:CA	13:AN:62:VAL:HG11	2.37	0.54
15:AP:82:LYS:CB	15:AP:125:TRP:H	2.19	0.54
16:AQ:34:LEU:HD21	16:AQ:129:ILE:CD1	2.30	0.54
18:AS:81:ALA:C	18:AS:82:LEU:HD13	2.28	0.54
19:AT:6:LYS:CG	19:AT:27:ALA:HB1	2.38	0.54
20:AU:66:ASP:O	20:AU:71:VAL:O	2.24	0.54
21:AV:105:GLN:HB2	21:AV:141:MET:CG	2.30	0.54
21:AV:105:GLN:O	21:AV:142:ASN:ND2	2.38	0.54
23:AX:11:SER:HB3	23:AX:13:ILE:HG12	1.89	0.54
23:AX:26:LEU:HD12	23:AX:28:LEU:HD11	1.89	0.54
36:B1:71:A:N3	36:B1:71:A:H2'	2.22	0.54
34:BA:1050:G:C2	34:BA:1209:C:C2	2.96	0.54
34:BA:1244:C:C2	34:BA:1245:A:C8	2.96	0.54
34:BA:1352:C:N3	34:BA:1353:G:C5	2.75	0.54
34:BA:1387:G:H2'	34:BA:1388:C:H6	1.72	0.54
34:BA:1400:C:C2	35:BC:34:G:N2	2.75	0.54
34:BA:142:G:H2'	34:BA:143:A:C8	2.43	0.54
34:BA:1441:G:H1'	34:BA:1461:G:H1	1.72	0.54
34:BA:363:A:C5	47:BO:31:PRO:CD	2.88	0.54
34:BA:399:G:C5	34:BA:400:C:C5	2.95	0.54
34:BA:44:G:O2'	34:BA:45:U:H5'	2.07	0.54
34:BA:499:A:N1	34:BA:546:G:O2'	2.30	0.54
34:BA:604:G:N2	34:BA:605:U:H1'	2.22	0.54
34:BA:658:G:C5	34:BA:659:U:C5	2.96	0.54
34:BA:694:A:N1	34:BA:695:A:C4	2.75	0.54
34:BA:995:C:C2'	49:BQ:4:LYS:HZ3	2.20	0.54
35:BC:13:C:H2'	35:BC:13:C:O2	2.07	0.54
35:BC:27:C:O2	35:BC:28:C:C5	2.60	0.54
35:BC:57:G:C2'	35:BC:58:A:H5''	2.37	0.54
35:BC:8:U:H1'	35:BC:48:C:H1'	1.90	0.54
40:BH:144:THR:O	40:BH:145:LYS:C	2.46	0.54
42:BJ:111:ARG:HD2	42:BJ:123:GLU:CB	2.36	0.54
42:BJ:136:LYS:HZ1	42:BJ:137:LYS:CG	2.16	0.54
34:BA:1373:G:H1'	42:BJ:34:GLY:HA2	1.89	0.54
42:BJ:50:ILE:O	42:BJ:54:THR:N	2.33	0.54
44:BL:15:ALA:HB1	44:BL:77:ILE:HA	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BM:24:VAL:HA	45:BM:34:VAL:CG2	2.35	0.54
45:BM:28:ARG:C	45:BM:29:ARG:HG3	2.28	0.54
47:BO:53:ARG:HH22	47:BO:92:ASP:CB	2.21	0.54
48:BP:13:LYS:CD	48:BP:17:VAL:HG12	2.32	0.54
49:BQ:20:ALA:O	49:BQ:21:TYR:CB	2.53	0.54
34:BA:254:G:OP1	52:BT:67:LYS:O	2.26	0.54
52:BT:75:ARG:HH11	52:BT:75:ARG:CG	2.05	0.54
10:AK:100:GLU:O	10:AK:104:ALA:CB	2.55	0.54
23:AX:3:ARG:HD3	23:AX:60:GLU:HG2	1.89	0.54
24:A0:100:LEU:HD23	24:A0:113:LEU:N	2.22	0.54
24:A0:59:ASP:HB2	24:A0:60:LEU:CD2	2.37	0.54
24:A0:80:PHE:O	24:A0:84:ALA:CB	2.56	0.54
27:A3:73:GLY:O	27:A3:75:GLY:N	2.41	0.54
2:AA:1364:G:N7	28:A4:3:LYS:HE2	2.23	0.54
29:A5:44:HIS:HB3	29:A5:45:ILE:HD12	1.89	0.54
30:A6:28:ARG:HD3	30:A6:30:ASN:ND2	2.23	0.54
33:A9:17:VAL:HG12	33:A9:18:ARG:N	2.22	0.54
2:AA:1022:G:O2'	2:AA:1023:U:P	2.66	0.54
2:AA:1024:G:OP2	2:AA:1026:U:OP1	2.25	0.54
2:AA:1052:C:C2	2:AA:1053:C:H5	2.26	0.54
2:AA:1107:G:C2'	2:AA:1108:U:H5'	2.38	0.54
2:AA:1106:G:C6	2:AA:1107:G:O6	2.61	0.54
2:AA:1256:G:C4	2:AA:1257:C:C5	2.95	0.54
2:AA:154:G:C5	2:AA:155:C:H1'	2.42	0.54
2:AA:1567:A:H4'	2:AA:1568:G:N2	2.23	0.54
2:AA:1571:A:H3'	2:AA:1571:A:C4	2.41	0.54
2:AA:1395:A:OP1	2:AA:1602:U:O2'	2.25	0.54
2:AA:1779:U:H6	2:AA:1779:U:O5'	1.89	0.54
2:AA:1842:G:C6	2:AA:1843:C:C4	2.95	0.54
2:AA:1850:G:H2'	2:AA:1851:U:O4'	2.07	0.54
2:AA:1960:A:C2	2:AA:1961:C:C2	2.96	0.54
2:AA:195:A:C4	2:AA:198:C:N4	2.76	0.54
2:AA:18:C:C4	2:AA:19:C:C5	2.95	0.54
2:AA:570:G:C5	2:AA:2030:A:C2	2.96	0.54
2:AA:2053:G:O2'	2:AA:2054:A:C5'	2.53	0.54
2:AA:2136:C:N3	2:AA:2155:G:C4	2.75	0.54
2:AA:2150:U:O2'	2:AA:2151:G:C8	2.60	0.54
2:AA:2301:C:C4	2:AA:2302:G:N7	2.76	0.54
2:AA:2312:U:O2'	7:AG:72:LYS:NZ	2.39	0.54
2:AA:2355:C:C4	2:AA:2356:C:N3	2.76	0.54
2:AA:2486:G:N1	2:AA:2487:G:C8	2.75	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2508:G:C2'	2:AA:2509:G:H5'	2.37	0.54
2:AA:2568:C:O2	2:AA:2568:C:H2'	2.08	0.54
2:AA:2600:A:C2	2:AA:2601:C:C5	2.96	0.54
2:AA:2676:C:H2'	2:AA:2677:G:C8	2.43	0.54
2:AA:270(S):G:C2	2:AA:270(T):G:C5	2.96	0.54
2:AA:2726:U:O3'	2:AA:2727:G:C8	2.59	0.54
2:AA:311:A:O2'	2:AA:312:G:OP2	2.24	0.54
2:AA:530:G:C6	2:AA:2022:U:OP1	2.61	0.54
2:AA:558:G:C2	2:AA:559:G:C5	2.95	0.54
2:AA:28:A:O2'	2:AA:583:G:C5'	2.56	0.54
2:AA:611:C:O2	2:AA:617:G:N1	2.41	0.54
2:AA:806:C:C2'	2:AA:807:U:H6	2.18	0.54
2:AA:932:G:C2'	2:AA:933:A:C8	2.90	0.54
1:AB:37:C:H42	1:AB:44:G:H22	1.55	0.54
3:AC:108:MET:SD	3:AC:136:LEU:CD1	2.96	0.54
3:AC:14:VAL:HG12	3:AC:15:ASP:N	2.22	0.54
3:AC:28:LEU:HA	3:AC:31:GLU:HB2	1.88	0.54
4:AD:154:VAL:HA	4:AD:157:ALA:CB	2.37	0.54
4:AD:131:LEU:HD12	4:AD:184:LEU:O	2.08	0.54
4:AD:88:ALA:HB1	4:AD:90:ILE:CD1	2.37	0.54
5:AE:107:GLU:O	5:AE:110:ARG:CG	2.55	0.54
5:AE:176:HIS:O	5:AE:179:ASP:CB	2.46	0.54
5:AE:75:THR:N	5:AE:293:TYR:HE2	2.05	0.54
5:AE:300:VAL:N	5:AE:301:PRO:HD3	2.23	0.54
6:AF:83:ALA:O	6:AF:84:VAL:HG13	2.08	0.54
8:AH:41:THR:CB	8:AH:52:THR:OG1	2.54	0.54
8:AH:90:GLY:O	8:AH:93:TYR:N	2.41	0.54
9:AJ:111:ALA:C	9:AJ:115:LYS:HE3	2.28	0.54
10:AK:47:LEU:HD13	10:AK:51:LYS:HZ2	1.72	0.54
2:AA:1131:G:N2	12:AM:69:TYR:CE2	2.75	0.54
2:AA:1665:A:H1'	13:AN:67:ARG:HD3	1.90	0.54
14:AO:113:GLN:CB	14:AO:115:ARG:CZ	2.81	0.54
15:AP:147:VAL:CG1	15:AP:148:ASN:N	2.69	0.54
2:AA:911:A:C6	15:AP:16:ARG:HG2	2.43	0.54
15:AP:17:ARG:N	15:AP:17:ARG:HD3	2.22	0.54
15:AP:58:HIS:O	15:AP:59:ASN:C	2.46	0.54
16:AQ:120:GLU:CA	16:AQ:123:ILE:HB	2.38	0.54
16:AQ:90:LEU:HD21	16:AQ:125:ALA:O	2.08	0.54
16:AQ:46:GLN:NE2	16:AQ:57:THR:HG21	2.23	0.54
17:AR:50:GLU:CA	17:AR:55:ALA:CB	2.80	0.54
18:AS:70:TYR:HE1	18:AS:109:GLU:O	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AT:18:MET:HE1	19:AT:25:GLN:HB2	1.90	0.54
19:AT:28:VAL:O	19:AT:29:ASP:C	2.46	0.54
19:AT:45:TYR:O	19:AT:46:ASP:C	2.46	0.54
22:AW:33:VAL:HB	22:AW:34:GLN:OE1	2.08	0.54
36:BI:70:U:O4	38:BF:131:ARG:NH1	2.41	0.54
34:BA:1088:G:C2	34:BA:1089:G:C8	2.96	0.54
34:BA:1256:A:H61	34:BA:1278:U:H1'	1.73	0.54
34:BA:1256:A:N6	34:BA:1278:U:O2'	2.37	0.54
34:BA:1313:U:C5	54:BV:4:SER:HB3	2.42	0.54
34:BA:1431:C:O2'	34:BA:1432:G:H5'	2.08	0.54
34:BA:13:U:H5'	34:BA:14:U:OP2	2.07	0.54
34:BA:193:C:H2'	34:BA:194:C:C5	2.42	0.54
34:BA:202:U:H2'	34:BA:202:U:O2	2.07	0.54
34:BA:28:G:HO2'	34:BA:296:U:P	2.30	0.54
34:BA:32:A:H2'	34:BA:33:A:C8	2.42	0.54
34:BA:329:A:N6	34:BA:332:G:C2	2.76	0.54
34:BA:160:A:H1'	34:BA:344:A:H62	1.72	0.54
34:BA:370:C:C2'	34:BA:371:G:C5'	2.85	0.54
34:BA:377:G:OP1	51:BS:5:ARG:NH1	2.40	0.54
34:BA:448:A:H2'	34:BA:449:C:H6	1.72	0.54
34:BA:373:A:N7	34:BA:482:A:C8	2.76	0.54
34:BA:521:G:C6	34:BA:529:G:C2	2.96	0.54
34:BA:573:A:C2	34:BA:574:A:C5	2.96	0.54
34:BA:582:U:C2'	34:BA:583:A:O5'	2.56	0.54
34:BA:780:A:C3'	34:BA:780:A:C8	2.90	0.54
34:BA:866:C:C5	34:BA:867:G:C1'	2.91	0.54
34:BA:895:G:H2'	34:BA:896:C:H6	1.72	0.54
34:BA:942:G:N2	44:BL:124:GLN:OE1	2.40	0.54
34:BA:959:A:H1'	34:BA:985:C:C1'	2.38	0.54
35:BC:49:C:C2	35:BC:50:U:C5	2.95	0.54
35:BC:56:C:N4	35:BC:57:G:C2	2.76	0.54
38:BF:126:ARG:C	38:BF:127:ARG:HG3	2.28	0.54
34:BA:1056:U:O2'	38:BF:156:ARG:HG3	2.08	0.54
40:BH:116:THR:C	40:BH:117:ASP:CG	2.66	0.54
40:BH:141:GLN:HG3	40:BH:143:ARG:HH22	1.71	0.54
40:BH:144:THR:O	40:BH:146:ALA:N	2.41	0.54
40:BH:58:ALA:O	40:BH:59:GLY:C	2.46	0.54
40:BH:78:HIS:CE1	40:BH:142:LEU:HA	2.41	0.54
41:BI:42:GLU:C	41:BI:44:GLY:N	2.61	0.54
41:BI:4:TYR:OH	41:BI:67:MET:HE2	2.06	0.54
41:BI:52:ILE:HD13	41:BI:87:ARG:HH22	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BI:75:LEU:CD2	41:BI:78:GLU:HB3	2.33	0.54
41:BI:80:ARG:NH1	41:BI:88:VAL:CG1	2.71	0.54
43:BK:104:ARG:O	43:BK:107:LEU:CD2	2.56	0.54
43:BK:40:ALA:N	43:BK:45:ILE:CG2	2.65	0.54
44:BL:5:TYR:CG	44:BL:18:PHE:CE2	2.96	0.54
45:BM:53:PRO:O	45:BM:54:PHE:HB3	2.07	0.54
34:BA:562:C:O2'	47:BO:15:ARG:CD	2.55	0.54
47:BO:83:VAL:HG21	47:BO:107:ALA:HB3	1.88	0.54
48:BP:108:ARG:NH1	48:BP:108:ARG:HB3	2.23	0.54
48:BP:65:LYS:C	48:BP:66:LEU:HD23	2.27	0.54
49:BQ:27:CYS:SG	49:BQ:43:CYS:N	2.65	0.54
50:BR:13:GLN:O	50:BR:14:GLU:C	2.46	0.54
50:BR:24:SER:O	50:BR:28:GLN:NE2	2.34	0.54
50:BR:29:VAL:HG12	50:BR:30:ALA:N	2.23	0.54
51:BS:72:ARG:CZ	51:BS:73:LEU:HD21	2.38	0.54
54:BV:11:VAL:O	54:BV:11:VAL:CG1	2.55	0.54
55:BW:102:GLY:C	55:BW:104:LEU:H	2.11	0.54
55:BW:57:ARG:HG2	55:BW:57:ARG:HH11	1.72	0.54
10:AK:147:GLU:O	10:AK:148:GLN:C	2.45	0.54
35:BB:9:A:H5''	35:BB:10:G:OP2	2.07	0.54
6:AF:63:SER:O	6:AF:65:ARG:N	2.38	0.54
36:B1:15:A:N1	36:B1:41:U:O2	2.41	0.54
25:A1:50:ARG:N	25:A1:53:LYS:HZ1	2.05	0.54
28:A4:41:PRO:CD	28:A4:57:ASP:OD2	2.56	0.54
28:A4:43:TRP:O	28:A4:44:THR:HG23	2.08	0.54
29:A5:10:LYS:HG3	29:A5:11:THR:N	2.23	0.54
30:A6:29:ARG:O	30:A6:31:THR:O	2.25	0.54
32:A8:22:VAL:HG13	32:A8:23:MET:H	1.73	0.54
32:A8:58:MET:O	32:A8:59:LYS:C	2.45	0.54
2:AA:1072:C:H2'	2:AA:1093:G:O6	2.07	0.54
2:AA:1222:C:C2'	2:AA:1223:C:C5'	2.86	0.54
2:AA:1291:C:H2'	2:AA:1292:U:C5'	2.38	0.54
2:AA:146:G:H2'	2:AA:147:U:H5'	1.89	0.54
2:AA:1530:G:H21	2:AA:1531:C:H5	1.56	0.54
2:AA:1613:G:O4'	31:A7:3:ARG:CZ	2.55	0.54
2:AA:1274:A:N6	2:AA:1644:C:O2'	2.40	0.54
2:AA:1729:A:C6	2:AA:1731:G:O6	2.61	0.54
2:AA:1872:A:O2'	2:AA:1878:G:H5'	2.08	0.54
2:AA:1770:G:C6	2:AA:1983:C:N4	2.75	0.54
2:AA:2143:C:C6	2:AA:2143:C:OP2	2.56	0.54
2:AA:2150:U:C2'	2:AA:2151:G:C8	2.91	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2213:U:C5'	2:AA:2215:G:N7	2.69	0.54
2:AA:2224:G:O5'	2:AA:2224:G:H8	1.91	0.54
2:AA:2268:A:H4'	2:AA:2269:A:OP2	2.07	0.54
2:AA:226:G:O2'	2:AA:227:A:H5'	2.07	0.54
2:AA:2351:G:H5'	2:AA:2352:A:OP1	2.08	0.54
2:AA:2435:A:H2'	2:AA:2436:G:C5'	2.38	0.54
2:AA:243:U:H5''	2:AA:244:A:OP2	2.07	0.54
2:AA:247:G:H4'	2:AA:386:G:C4	2.41	0.54
2:AA:2554:U:C3'	2:AA:2554:U:C6	2.91	0.54
2:AA:2681:C:N4	2:AA:2725:A:N7	2.56	0.54
2:AA:2779:U:O4'	2:AA:2781:A:C5	2.61	0.54
2:AA:2836:U:C2'	2:AA:2837:G:C8	2.75	0.54
2:AA:2864:G:O2'	2:AA:2865:U:O4'	2.23	0.54
2:AA:311:A:OP1	20:AU:52:ARG:NH2	2.40	0.54
2:AA:35:G:O4'	2:AA:454:A:O4'	2.26	0.54
2:AA:372:G:OP2	2:AA:373:U:OP2	2.26	0.54
2:AA:412:A:C2'	2:AA:413:C:H5'	2.37	0.54
2:AA:371:A:H5''	2:AA:423:A:N7	2.22	0.54
2:AA:455:C:P	2:AA:472:A:N1	2.81	0.54
2:AA:482:A:C6	2:AA:506:G:C2	2.96	0.54
2:AA:563:G:O6	2:AA:2018:G:N7	2.41	0.54
2:AA:660:G:N3	2:AA:661:C:C6	2.76	0.54
2:AA:709:U:H2'	2:AA:710:G:O4'	2.08	0.54
2:AA:744:G:O2'	2:AA:745:G:H5'	2.08	0.54
2:AA:809:G:C4	2:AA:810:U:C5	2.95	0.54
2:AA:962:G:H2'	2:AA:963:U:O4'	2.07	0.54
2:AA:99:U:N3	20:AU:107:LYS:HD2	2.19	0.54
1:AB:110:G:H2'	1:AB:111:U:O4'	2.08	0.54
1:AB:57:A:H1'	7:AG:13:MET:HE1	1.86	0.54
2:AA:2116:G:OP2	3:AC:126:LYS:N	2.41	0.54
4:AD:71:ASP:HB3	4:AD:119:PRO:CD	2.38	0.54
2:AA:1566:A:N6	4:AD:212:HIS:CE1	2.75	0.54
4:AD:84:PRO:C	4:AD:85:ASN:HD22	2.10	0.54
6:AF:86:GLY:O	6:AF:87:ARG:CB	2.56	0.54
7:AG:139:TYR:CZ	7:AG:156:ARG:HG3	2.43	0.54
7:AG:139:TYR:OH	7:AG:156:ARG:HG3	2.08	0.54
7:AG:24:HIS:CB	7:AG:72:LYS:CD	2.82	0.54
8:AH:117:GLU:CG	8:AH:118:GLU:N	2.70	0.54
9:AI:17:GLU:HG2	9:AJ:104:SER:OG	2.08	0.54
9:AI:15:VAL:HG22	9:AI:49:ALA:N	2.23	0.54
9:AJ:15:VAL:HG21	9:AJ:49:ALA:CA	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:6:LEU:CB	10:AK:36:ALA:HB2	2.38	0.54
11:AL:11:LEU:HD11	11:AL:28:LEU:HD11	1.90	0.54
2:AA:1077:A:OP1	11:AL:94:ARG:HB2	2.08	0.54
12:AM:15:ARG:HH11	12:AM:43:ARG:NE	2.06	0.54
12:AM:54:VAL:N	12:AM:135:ILE:HG13	2.23	0.54
13:AN:21:VAL:HG13	13:AN:39:VAL:HG11	1.89	0.54
15:AP:143:VAL:HG21	15:AP:147:VAL:HG21	1.88	0.54
2:AA:24:G:O2'	18:AS:102:HIS:CD2	2.61	0.54
18:AS:89:ALA:N	18:AS:92:ARG:O	2.41	0.54
19:AT:9:HIS:O	19:AT:14:ALA:CB	2.54	0.54
21:AV:159:THR:O	21:AV:160:LEU:HB2	2.07	0.54
21:AV:51:LEU:HD23	21:AV:52:PHE:N	2.23	0.54
35:BB:34:G:C2	36:B1:65:U:H2'	2.42	0.54
34:BA:1035:A:C2	34:BA:1036:G:C8	2.96	0.54
34:BA:1045:C:C4	34:BA:1046:A:C8	2.95	0.54
34:BA:1193:G:O2'	34:BA:1194:U:H5'	2.06	0.54
34:BA:1216:G:H5''	49:BQ:5:ALA:HB2	1.90	0.54
34:BA:1254:C:OP1	45:BM:45:ARG:NE	2.41	0.54
34:BA:1306:A:C2'	34:BA:1307:U:H5'	2.38	0.54
34:BA:1334:G:H2'	34:BA:1335:C:H5'	1.90	0.54
34:BA:136:C:H4'	51:BS:65:GLN:OE1	2.07	0.54
34:BA:155:C:C2	34:BA:167:G:C2	2.96	0.54
34:BA:266:G:C2'	34:BA:267:C:OP2	2.55	0.54
34:BA:403:C:H2'	34:BA:404:U:C6	2.42	0.54
34:BA:404:U:H2'	34:BA:405:U:C6	2.43	0.54
34:BA:484:G:C8	34:BA:486:U:N3	2.76	0.54
34:BA:12:U:C5'	34:BA:526:C:O2'	2.56	0.54
34:BA:52:G:O2'	34:BA:53:A:C5'	2.55	0.54
34:BA:690:G:C2'	34:BA:691:G:H5'	2.38	0.54
34:BA:760:G:C2'	34:BA:761:G:H5'	2.38	0.54
34:BA:803:G:N1	34:BA:804:U:C2	2.76	0.54
34:BA:837:G:N1	34:BA:838:G:C5	2.76	0.54
34:BA:960:U:H4'	34:BA:961:U:OP2	2.08	0.54
35:BB:66:A:C4	35:BB:67:A:N7	2.76	0.54
35:BC:35:A:C5'	35:BC:35:A:H8	2.13	0.54
37:BE:80:ILE:CD1	37:BE:208:ILE:HG12	2.37	0.54
37:BE:221:LEU:C	37:BE:221:LEU:CD1	2.76	0.54
38:BF:186:PHE:CE1	38:BF:187:ALA:O	2.61	0.54
42:BJ:104:LEU:HD13	42:BJ:134:ALA:CB	2.37	0.54
43:BK:22:GLU:N	43:BK:63:LEU:HD11	2.21	0.54
45:BM:56:HIS:O	45:BM:58:ASP:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:25:TYR:CD1	46:BN:89:ALA:HB2	2.43	0.54
45:BM:65:LEU:HD12	49:BQ:56:VAL:CG2	2.38	0.54
50:BR:36:ILE:CG2	50:BR:37:ASN:HD22	2.21	0.54
52:BT:10:VAL:HG21	52:BT:55:ASP:HB2	1.88	0.54
53:BU:73:ALA:C	53:BU:79:LEU:HD11	2.28	0.54
53:BU:74:ARG:HA	53:BU:79:LEU:CD2	2.38	0.54
10:AK:115:ILE:HA	10:AK:131:VAL:CA	2.37	0.54
37:BE:10:LEU:HD23	37:BE:11:LEU:HD23	1.90	0.54
2:AA:2899:G:HO2'	2:AA:2900:A:C5'	2.20	0.54
40:BH:48:ALA:HB1	40:BH:53:LEU:HB3	1.88	0.54
14:AO:102:ASP:O	14:AO:103:ALA:HB2	2.08	0.54
2:AA:1248:G:OP1	25:A1:2:PRO:HG3	2.07	0.54
29:A5:11:THR:CB	29:A5:16:ARG:NE	2.41	0.54
2:AA:2022:U:O4	29:A5:9:LYS:CE	2.56	0.54
33:A9:11:CYS:N	33:A9:32:HIS:NE2	2.50	0.54
2:AA:1020:A:O2'	12:AM:49:ARG:HD3	2.07	0.54
2:AA:1059:G:N7	2:AA:1060:U:O4'	2.41	0.54
2:AA:81:G:N2	2:AA:106:C:C6	2.75	0.54
2:AA:1085:A:OP1	9:AI:34:ALA:HA	2.08	0.54
2:AA:1054:A:H61	2:AA:1105:U:H3	0.69	0.54
2:AA:1177:A:C6	2:AA:1178:C:N4	2.76	0.54
2:AA:1319:G:C5	2:AA:1334:G:C6	2.95	0.54
2:AA:1352:U:O2'	2:AA:1570:A:C2'	2.55	0.54
2:AA:1430:C:C2	2:AA:1431:U:C5	2.96	0.54
2:AA:1439:A:C8	2:AA:1440:G:C8	2.92	0.54
2:AA:1480:G:N3	2:AA:1480:G:H2'	2.23	0.54
2:AA:150:C:N3	2:AA:151:C:C6	2.76	0.54
2:AA:1664:A:C5'	2:AA:1664:A:H8	2.20	0.54
2:AA:1692:U:C4	2:AA:1694:C:O2	2.61	0.54
2:AA:1703:G:H2'	2:AA:1704:G:O4'	2.07	0.54
2:AA:1806:C:N3	2:AA:1807:G:C8	2.76	0.54
2:AA:1973:G:C2	2:AA:1974:C:C4	2.96	0.54
2:AA:1988:C:H2'	2:AA:1989:G:O5'	2.08	0.54
2:AA:1989:G:C2'	2:AA:1990:C:H5'	2.38	0.54
2:AA:199:A:C6	2:AA:2433:A:N7	2.76	0.54
2:AA:1999:C:C2'	2:AA:2000:G:O5'	2.55	0.54
2:AA:2227:A:C6	2:AA:2228:G:C5	2.96	0.54
2:AA:2259:G:H2'	2:AA:2260:C:H6	1.71	0.54
2:AA:2361:A:H2'	2:AA:2362:G:H5'	1.90	0.54
2:AA:2384:G:H3'	2:AA:2386:C:OP1	2.08	0.54
2:AA:2455:G:C6	2:AA:2456:C:C4	2.96	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2462:U:H2'	2:AA:2463:C:H5'	1.90	0.54
2:AA:2474:C:H2'	2:AA:2475:C:C5'	2.38	0.54
2:AA:2488:A:N1	2:AA:2489:G:C5	2.76	0.54
2:AA:2536:G:C6	2:AA:2537:U:C4	2.95	0.54
2:AA:2684:U:C4'	13:AN:76:TYR:CZ	2.90	0.54
2:AA:2710:C:C2'	2:AA:2711:A:H5'	2.38	0.54
2:AA:2755:C:O5'	2:AA:2755:C:C6	2.54	0.54
2:AA:2633:G:H1	2:AA:2785:C:H42	1.55	0.54
2:AA:2792:G:H1	2:AA:2804:C:H42	1.54	0.54
2:AA:2791:C:C5	2:AA:2807:G:N1	2.76	0.54
2:AA:2824:C:C4	2:AA:2825:C:C2	2.95	0.54
2:AA:2839:G:O2'	2:AA:2840:C:C5'	2.56	0.54
2:AA:2848:G:C2	2:AA:2867:G:N3	2.76	0.54
2:AA:2895:U:H2'	2:AA:2896:C:C5	2.43	0.54
2:AA:506:G:C2'	2:AA:507:A:OP2	2.55	0.54
2:AA:854:G:C4	2:AA:855:G:C8	2.96	0.54
2:AA:933:A:H2'	2:AA:934:G:H5'	1.89	0.54
2:AA:993:G:C6	2:AA:1161:C:N3	2.76	0.54
1:AB:44:G:H2'	1:AB:48:A:C2	2.43	0.54
1:AB:71:C:C2'	1:AB:72:G:O4'	2.52	0.54
1:AB:81:G:C6	1:AB:96:G:C6	2.96	0.54
4:AD:93:ILE:HG22	4:AD:101:ARG:HB2	1.90	0.54
4:AD:116:MET:C	4:AD:117:SER:HG	1.98	0.54
4:AD:66:PHE:O	4:AD:67:LYS:HB3	2.08	0.54
4:AD:70:LYS:O	4:AD:73:ILE:HG13	2.08	0.54
5:AE:47:GLY:O	5:AE:72:VAL:HG22	2.08	0.54
6:AF:163:HIS:HA	6:AF:166:ILE:CG1	2.37	0.54
6:AF:197:SER:HB2	6:AF:215:ALA:HB2	1.90	0.54
6:AF:83:ALA:N	6:AF:87:ARG:NH2	2.56	0.54
7:AG:104:PHE:O	7:AG:105:SER:OG	2.22	0.54
9:AI:5:GLU:HA	9:AI:8:GLU:OE2	2.08	0.54
9:AJ:77:VAL:CG2	9:AJ:102:ILE:HD11	2.34	0.54
9:AI:1:MET:HE2	11:AL:10:LYS:NZ	2.22	0.54
11:AL:67:THR:O	11:AL:68:PHE:CB	2.47	0.54
12:AM:15:ARG:HG3	12:AM:40:ASN:HD22	1.72	0.54
12:AM:63:ILE:HB	12:AM:71:TYR:CE1	2.43	0.54
12:AM:96:GLU:O	12:AM:97:ALA:C	2.45	0.54
13:AN:73:ASP:C	13:AN:75:SER:N	2.59	0.54
17:AR:45:GLU:CA	17:AR:48:ASN:HD21	2.21	0.54
17:AR:8:TYR:O	17:AR:10:GLY:N	2.41	0.54
18:AS:45:TYR:CD2	18:AS:46:PHE:HD1	2.26	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:14:LEU:CD1	21:AV:80:HIS:NE2	2.71	0.54
21:AV:34:LEU:HB2	21:AV:39:PHE:HE2	1.73	0.54
22:AW:22:ASP:N	22:AW:22:ASP:OD1	2.40	0.54
22:AW:43:PRO:O	22:AW:46:ILE:N	2.41	0.54
36:B1:10:U:H2'	36:B1:11:U:C6	2.40	0.54
36:B1:46:A:OP2	36:B1:47:U:C5	2.61	0.54
34:BA:101:A:C2	34:BA:102:G:C5	2.96	0.54
34:BA:994:A:N6	34:BA:1046:A:H2	2.06	0.54
34:BA:1054:C:H2'	34:BA:1055:A:H5''	1.90	0.54
34:BA:1130:A:N3	34:BA:1146:A:C2	2.76	0.54
34:BA:1152:A:O2'	34:BA:1153:C:H5'	2.07	0.54
34:BA:1284:C:C2'	34:BA:1285:A:C8	2.90	0.54
34:BA:1346:A:C2	42:BJ:10:ARG:NE	2.76	0.54
34:BA:1355:G:H1	34:BA:1367:C:N4	2.05	0.54
34:BA:14:U:N3	34:BA:16:A:O5'	2.41	0.54
34:BA:411:A:N7	34:BA:413:G:C4	2.76	0.54
34:BA:527:G:N1	34:BA:528:C:C4	2.75	0.54
34:BA:646:U:O2'	34:BA:647:C:C5'	2.56	0.54
34:BA:657:G:H2'	34:BA:658:G:C5'	2.31	0.54
34:BA:74:C:H2'	34:BA:75:G:C8	2.43	0.54
34:BA:762:C:N3	34:BA:763:G:C5	2.76	0.54
34:BA:777:A:C4	34:BA:778:G:C8	2.96	0.54
34:BA:757:U:OP1	34:BA:823:G:H5'	2.07	0.54
34:BA:880:C:C2'	34:BA:881:G:H5'	2.37	0.54
34:BA:887:G:O6	34:BA:888:G:C6	2.61	0.54
34:BA:901:A:H2'	34:BA:902:G:C4'	2.38	0.54
35:BB:32:C:N3	35:BB:33:U:C2	2.76	0.54
2:AA:1924:C:H5'	35:BC:12:U:O2	2.07	0.54
37:BE:92:TYR:O	37:BE:152:PHE:N	2.41	0.54
37:BE:169:LYS:C	37:BE:169:LYS:CE	2.76	0.54
37:BE:221:LEU:HA	37:BE:224:GLN:OE1	2.07	0.54
37:BE:18:GLY:CA	37:BE:41:ILE:HA	2.38	0.54
38:BF:10:PHE:CE2	38:BF:176:HIS:O	2.61	0.54
38:BF:141:VAL:HG13	38:BF:202:ILE:HD13	1.89	0.54
39:BG:148:VAL:CG1	39:BG:153:ARG:HG2	2.38	0.54
44:BL:8:GLY:O	44:BL:76:ALA:HB1	2.08	0.54
45:BM:5:ARG:CB	45:BM:5:ARG:NH1	2.71	0.54
34:BA:1125:U:C5	45:BM:5:ARG:NH2	2.76	0.54
45:BM:49:VAL:O	45:BM:60:ARG:HG3	2.08	0.54
47:BO:90:VAL:CG2	47:BO:96:VAL:CG1	2.84	0.54
48:BP:10:PRO:HB2	48:BP:18:ALA:CB	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:74:VAL:O	48:BP:78:ILE:HD12	2.07	0.54
50:BR:36:ILE:HG22	50:BR:37:ASN:ND2	2.22	0.54
34:BA:617:G:H4'	51:BS:45:THR:HG22	1.90	0.54
52:BT:74:LEU:HD13	52:BT:75:ARG:N	2.22	0.54
55:BW:16:HIS:O	55:BW:19:SER:N	2.41	0.54
48:BP:119:GLY:O	48:BP:121:LYS:NZ	2.38	0.54
1:AB:12:C:C5	27:A3:53:MET:O	2.54	0.54
37:BE:131:PRO:HG2	37:BE:134:GLU:CG	2.32	0.54
24:A0:67:LEU:HD22	24:A0:71:GLN:HA	1.89	0.54
25:A1:14:HIS:CD2	25:A1:36:PHE:CZ	2.96	0.54
26:A2:20:ILE:HG23	26:A2:94:LYS:HG2	1.89	0.54
27:A3:31:VAL:O	27:A3:33:ALA:N	2.41	0.54
28:A4:7:PRO:CG	28:A4:56:VAL:HG11	2.37	0.54
2:AA:1613:G:OP1	31:A7:5:TYR:CD1	2.60	0.54
31:A7:8:ASN:O	31:A7:9:ASN:C	2.46	0.54
32:A8:6:THR:O	32:A8:7:HIS:C	2.47	0.54
2:AA:1000:A:C2	2:AA:1155:A:C2	2.96	0.54
2:AA:1011:G:C5	2:AA:1013:C:C5	2.96	0.54
2:AA:1053:C:C2'	2:AA:1054:A:H5'	2.37	0.54
2:AA:1127:A:C6	2:AA:2518:A:H2	2.26	0.54
2:AA:1137:G:N7	2:AA:1138:G:C8	2.76	0.54
2:AA:1022:G:N3	2:AA:1139:G:C2	2.76	0.54
2:AA:1194:A:C5	2:AA:1195:G:N7	2.76	0.54
2:AA:1231:G:C5	2:AA:1232:G:N7	2.76	0.54
2:AA:1291:C:C2'	2:AA:1292:U:C5'	2.86	0.54
2:AA:1315:C:C2	2:AA:1316:U:C5	2.96	0.54
2:AA:1353:A:N6	2:AA:1354:A:N6	2.56	0.54
2:AA:1565:C:O2'	2:AA:1566:A:H8	1.91	0.54
2:AA:742:G:H4'	2:AA:1675:C:O2'	2.07	0.54
2:AA:175:G:C4	2:AA:176:G:H8	2.24	0.54
2:AA:729:G:C6	2:AA:1775:U:C2	2.96	0.54
2:AA:1777:U:C5	2:AA:1778:U:H5	2.26	0.54
2:AA:1793:C:C2	2:AA:1794:U:C5	2.96	0.54
2:AA:1815:A:O2'	2:AA:1816:G:H4'	2.08	0.54
2:AA:1913:A:C5	2:AA:1918:A:C6	2.96	0.54
2:AA:1933:G:O6	2:AA:1967:C:N4	2.38	0.54
2:AA:1935:G:C4	2:AA:1962:C:N4	2.75	0.54
2:AA:204:A:C2	2:AA:205:G:N2	2.76	0.54
2:AA:2076:U:C6	2:AA:2076:U:C3'	2.91	0.54
2:AA:2110:G:C2	2:AA:2179:C:O2	2.61	0.54
2:AA:185:U:N3	2:AA:212:G:N2	2.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2303:G:N1	2:AA:2304:G:C6	2.76	0.54
2:AA:2411:A:H2'	2:AA:2412:A:C8	2.43	0.54
2:AA:2419:U:HO2'	2:AA:2420:C:C5'	2.22	0.54
2:AA:246:C:O2'	2:AA:385:C:C4'	2.54	0.54
2:AA:2538:C:C2	2:AA:2539:C:C5	2.96	0.54
2:AA:2550:G:H2'	2:AA:2551:C:C6	2.43	0.54
2:AA:244:A:C6	2:AA:255:A:N7	2.76	0.54
2:AA:2520:C:C5	2:AA:2567:G:N9	2.76	0.54
2:AA:2589:A:N6	2:AA:2605:U:H3	2.05	0.54
2:AA:2733:A:N7	2:AA:2734:A:N7	2.56	0.54
2:AA:2745:C:C4	2:AA:2746:U:C4	2.96	0.54
2:AA:2748:A:C8	2:AA:2749:A:C4	2.96	0.54
2:AA:2848:G:N2	2:AA:2867:G:O2'	2.41	0.54
2:AA:299:A:N3	2:AA:319:C:O2'	2.35	0.54
2:AA:359:A:C2	2:AA:361:G:N1	2.76	0.54
2:AA:533:G:N7	2:AA:534:U:C4	2.76	0.54
2:AA:601:C:H2'	2:AA:602:G:C5'	2.32	0.54
2:AA:609:A:N6	2:AA:609(A):G:O6	2.40	0.54
2:AA:616:A:H2'	2:AA:617:G:N2	2.22	0.54
2:AA:644:A:H5''	2:AA:2369:A:H1'	1.89	0.54
2:AA:774:A:H5'	2:AA:778:G:C4'	2.38	0.54
2:AA:786:C:O2'	2:AA:787:U:C4'	2.54	0.54
2:AA:871:U:HO2'	15:AP:90:PHE:HZ	1.55	0.54
4:AD:148:GLY:C	4:AD:149:ARG:NH1	2.61	0.54
4:AD:64:ILE:HG12	4:AD:102:TYR:CB	2.38	0.54
6:AF:55:ARG:CA	6:AF:79:ARG:CZ	2.86	0.54
7:AG:64:ARG:HB2	7:AG:67:ASP:OD2	2.07	0.54
8:AH:52:THR:OG1	8:AH:54:PRO:HD3	2.07	0.54
9:AI:64:LYS:HE2	9:AI:125:VAL:O	2.08	0.54
12:AM:58:GLU:HG3	12:AM:139:LEU:CD1	2.37	0.54
2:AA:2562:U:O2'	13:AN:23:LYS:HD3	2.07	0.54
14:AO:94:ARG:CB	14:AO:120:LEU:HD13	2.34	0.54
15:AP:67:ALA:CA	15:AP:70:ARG:CZ	2.85	0.54
15:AP:97:ASP:HB2	15:AP:107:LYS:CD	2.31	0.54
2:AA:1754:C:C3'	17:AR:44:ARG:HH22	2.20	0.54
20:AU:29:ALA:C	20:AU:33:GLU:OE2	2.47	0.54
21:AV:70:GLN:C	21:AV:72:ASP:N	2.51	0.54
23:AX:33:GLN:HG2	23:AX:34:GLU:H	1.72	0.54
23:AX:41:PRO:O	23:AX:44:ARG:N	2.41	0.54
34:BA:1067:A:H2	34:BA:1068:G:N3	2.06	0.54
34:BA:1348:U:N3	34:BA:1349:A:N7	2.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1355:G:H2'	34:BA:1356:G:H8	1.73	0.54
34:BA:1396:A:C4'	34:BA:1398:A:O4'	2.56	0.54
34:BA:148:G:C2	34:BA:175:C:C4	2.96	0.54
34:BA:1541:U:HO2'	34:BA:1542:U:HO3'	1.55	0.54
34:BA:66:G:H4'	34:BA:173:U:C5	2.43	0.54
34:BA:193:C:O2'	34:BA:194:C:C5'	2.55	0.54
34:BA:236:G:C3'	34:BA:237:C:C6	2.90	0.54
34:BA:267:C:C4	34:BA:268:C:N4	2.73	0.54
34:BA:270:A:O5'	34:BA:270:A:H8	1.90	0.54
34:BA:293:G:C8	34:BA:293:G:OP2	2.62	0.54
34:BA:28:G:H2'	34:BA:296:U:OP1	2.07	0.54
34:BA:478:A:H3'	34:BA:478:A:C8	2.43	0.54
34:BA:520:A:N6	34:BA:529:G:N2	2.40	0.54
34:BA:551:U:C2	34:BA:552:U:C5	2.96	0.54
34:BA:701:C:H1'	34:BA:703:G:C6	2.43	0.54
34:BA:936:C:O2'	34:BA:937:A:H5'	2.07	0.54
34:BA:979:C:OP2	34:BA:980:C:C5	2.60	0.54
37:BE:91:PRO:HD3	37:BE:154:LEU:HB3	1.89	0.54
38:BF:18:TRP:N	38:BF:18:TRP:HE3	2.03	0.54
38:BF:23:TYR:CE1	45:BM:11:PHE:CD2	2.96	0.54
38:BF:52:LEU:CD2	38:BF:52:LEU:N	2.71	0.54
38:BF:58:GLU:O	38:BF:64:VAL:HA	2.08	0.54
38:BF:91:LEU:HD11	38:BF:99:VAL:CG2	2.34	0.54
39:BG:26:CYS:O	39:BG:31:CYS:CB	2.44	0.54
39:BG:13:ARG:HG2	39:BG:32:ALA:HB1	1.90	0.54
40:BH:106:PRO:HG2	40:BH:122:GLU:OE2	2.08	0.54
43:BK:44:PHE:O	43:BK:79:VAL:HG11	2.08	0.54
43:BK:79:VAL:HG12	43:BK:80:ILE:N	2.23	0.54
45:BM:25:GLU:C	45:BM:28:ARG:HB2	2.28	0.54
46:BN:14:VAL:HG12	46:BN:14:VAL:O	2.06	0.54
47:BO:117:ARG:HH21	47:BO:123:LYS:C	2.11	0.54
47:BO:89:ARG:O	47:BO:90:VAL:CG2	2.56	0.54
48:BP:114:ARG:O	48:BP:115:LYS:HG3	2.08	0.54
48:BP:8:GLU:HG3	48:BP:22:ILE:CG1	2.38	0.54
34:BA:1359:C:C6	49:BQ:35:ARG:NH2	2.76	0.54
50:BR:29:VAL:O	50:BR:30:ALA:C	2.44	0.54
52:BT:35:VAL:HG12	52:BT:36:ILE:N	2.23	0.54
53:BU:40:LEU:O	53:BU:42:ARG:N	2.40	0.54
54:BV:67:VAL:C	54:BV:69:HIS:H	2.11	0.54
55:BW:12:ALA:O	55:BW:15:ARG:HB2	2.08	0.54
10:AK:141:LEU:O	10:AK:141:LEU:HD13	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:145:VAL:CG1	10:AK:146:THR:N	2.71	0.54
10:AK:66:LYS:CA	10:AK:69:LYS:HD3	2.36	0.54
37:BE:28:PHE:CD1	37:BE:31:TYR:C	2.81	0.54
24:A0:34:ILE:C	24:A0:113:LEU:HD22	2.28	0.53
24:A0:28:LEU:O	24:A0:29:LEU:C	2.44	0.53
24:A0:51:LEU:HD22	24:A0:70:LEU:HD11	1.90	0.53
2:AA:1152:C:H5''	25:A1:80:ILE:CB	2.38	0.53
26:A2:93:ILE:O	26:A2:95:ILE:HD11	2.07	0.53
27:A3:36:ILE:N	27:A3:68:VAL:CG2	2.68	0.53
28:A4:59:PHE:HA	28:A4:62:ARG:CZ	2.38	0.53
30:A6:18:THR:O	30:A6:19:GLY:C	2.45	0.53
31:A7:5:TYR:O	31:A7:6:GLN:C	2.47	0.53
2:AA:1063:G:OP2	11:AL:77:PHE:HE1	1.91	0.53
2:AA:1089:G:O5'	2:AA:1089:G:C8	2.57	0.53
2:AA:1138:G:C2	2:AA:1139:G:C5	2.96	0.53
2:AA:119:A:O2'	2:AA:120:U:OP2	2.24	0.53
2:AA:1252:G:N2	25:A1:37:GLN:NE2	2.40	0.53
2:AA:1252:G:N7	2:AA:1253:A:N3	2.55	0.53
2:AA:1268:A:C2'	2:AA:1269:A:H8	2.15	0.53
2:AA:1271:G:H3'	2:AA:1271:G:C8	2.43	0.53
2:AA:1272:A:O2'	2:AA:1273:U:P	2.66	0.53
2:AA:1473:G:O2'	2:AA:1474:C:H5'	2.09	0.53
2:AA:1542:G:C2	2:AA:1543:A:H5''	2.43	0.53
2:AA:1569:A:N1	2:AA:1570:A:C5	2.76	0.53
2:AA:129:C:H5'	2:AA:1599:C:O2'	2.07	0.53
2:AA:1770:G:C5	2:AA:1771:C:C5	2.96	0.53
2:AA:1802:A:P	2:AA:1814:G:H22	2.28	0.53
2:AA:197:A:C2'	2:AA:198:C:H6	2.21	0.53
2:AA:2043:C:H2'	2:AA:2044:C:O5'	2.09	0.53
2:AA:2110:G:H2'	2:AA:2111:C:C4	2.43	0.53
2:AA:2330:G:C2	2:AA:2331:G:N3	2.75	0.53
2:AA:2344:U:H2'	2:AA:2344:U:O2	2.06	0.53
2:AA:2349:G:O6	2:AA:2350:C:C4	2.62	0.53
2:AA:244:A:C5	2:AA:255:A:N7	2.76	0.53
2:AA:2521:C:N4	2:AA:2544:G:N1	2.29	0.53
2:AA:2674:G:C4	2:AA:2675:A:N7	2.75	0.53
2:AA:2834:G:H5'	2:AA:2835:A:OP2	2.07	0.53
2:AA:322:A:N3	2:AA:341:G:C8	2.76	0.53
2:AA:291:C:C4	2:AA:349:G:N1	2.76	0.53
2:AA:451:C:C2	2:AA:453:C:C5	2.96	0.53
2:AA:450:G:N2	2:AA:454:A:H2	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:503:A:C1'	2:AA:505:A:H8	2.20	0.53
2:AA:542:C:O2	2:AA:543:C:C5	2.61	0.53
2:AA:630:G:HO2'	2:AA:631:A:H8	1.55	0.53
2:AA:640:C:C6	2:AA:640:C:C3'	2.91	0.53
2:AA:640:C:N4	2:AA:647:G:O6	2.41	0.53
2:AA:659:C:C2	2:AA:660:G:C8	2.96	0.53
2:AA:858:U:H1'	2:AA:2269:A:H5''	1.89	0.53
2:AA:911:A:C8	2:AA:2264:C:C1'	2.73	0.53
2:AA:976:C:N4	2:AA:988:A:C4	2.75	0.53
3:AC:103:ILE:HG12	3:AC:107:TRP:CE3	2.42	0.53
3:AC:131:LEU:CA	3:AC:136:LEU:HB2	2.38	0.53
3:AC:61:THR:HG22	3:AC:162:GLU:HG2	1.91	0.53
4:AD:109:LEU:HD11	4:AD:125:ILE:O	2.07	0.53
4:AD:143:ILE:HG21	4:AD:153:LEU:HB2	1.90	0.53
4:AD:160:SER:O	4:AD:176:ALA:CA	2.55	0.53
4:AD:208:GLY:CA	4:AD:210:LYS:HZ3	2.21	0.53
2:AA:2821:A:P	5:AE:207:GLY:HA3	2.47	0.53
5:AE:314:ALA:O	5:AE:315:VAL:O	2.26	0.53
6:AF:157:LEU:O	6:AF:158:GLU:C	2.45	0.53
7:AG:96:SER:C	7:AG:98:PHE:N	2.54	0.53
11:AL:79:LEU:CD1	11:AL:137:ILE:HD13	2.37	0.53
12:AM:38:VAL:C	12:AM:103:VAL:HG13	2.29	0.53
13:AN:7:ARG:HB3	13:AN:44:LYS:HZ1	1.66	0.53
14:AO:141:GLU:HB2	14:AO:145:LEU:CD1	2.38	0.53
15:AP:126:VAL:CG1	15:AP:127:ASN:N	2.70	0.53
15:AP:75:SER:O	15:AP:132:VAL:CG2	2.54	0.53
15:AP:32:LYS:CE	21:AV:172:LEU:HD11	2.38	0.53
2:AA:2334:G:O6	16:AQ:10:MET:HE1	2.08	0.53
16:AQ:43:VAL:C	16:AQ:44:ARG:HG3	2.28	0.53
17:AR:49:LEU:CD1	17:AR:54:THR:HG22	2.38	0.53
17:AR:54:THR:C	17:AR:56:ARG:N	2.59	0.53
19:AT:32:ALA:CA	19:AT:36:GLU:HG3	2.38	0.53
19:AT:31:ARG:O	19:AT:32:ALA:O	2.26	0.53
19:AT:68:LEU:HD22	19:AT:73:ASP:OD2	2.08	0.53
20:AU:62:VAL:HA	20:AU:74:VAL:CG2	2.35	0.53
19:AT:3:ASP:HA	22:AW:24:LYS:HG3	1.89	0.53
22:AW:60:GLN:O	22:AW:61:GLY:C	2.46	0.53
23:AX:4:LEU:HD11	23:AX:39:ASP:HA	1.90	0.53
23:AX:8:LEU:HD12	23:AX:54:VAL:CG1	2.38	0.53
36:B1:66:G:H2'	36:B1:67:U:C5'	2.38	0.53
34:BA:1013:G:HO2'	34:BA:1014:A:H8	1.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1026:G:N7	34:BA:1027:C:C5	2.77	0.53
34:BA:1045:C:C2	34:BA:1046:A:H8	2.26	0.53
34:BA:117:G:C2'	34:BA:118:U:H5'	2.35	0.53
34:BA:1196:U:C6	34:BA:1196:U:C3'	2.91	0.53
34:BA:1314:C:C2	34:BA:1315:U:C4	2.95	0.53
34:BA:1319:A:N6	34:BA:1323:G:N3	2.56	0.53
34:BA:1493:A:O2'	34:BA:1494:G:C5'	2.56	0.53
2:AA:1912:A:O2'	34:BA:1494:G:O2'	2.24	0.53
34:BA:186:C:H2'	34:BA:187:C:H6	1.73	0.53
34:BA:254:G:H4'	52:BT:18:THR:CG2	2.38	0.53
34:BA:281:G:H2'	34:BA:282:A:OP2	2.08	0.53
34:BA:294:U:H2'	34:BA:295:C:H6	1.71	0.53
34:BA:444:C:H2'	34:BA:445:G:C8	2.42	0.53
34:BA:564:C:H2'	34:BA:565:U:O4'	2.07	0.53
34:BA:737:A:O2'	34:BA:738:C:H5'	2.07	0.53
34:BA:956:U:O2	34:BA:957:U:N1	2.41	0.53
34:BA:990:C:H42	34:BA:1215:G:H1	1.56	0.53
35:BB:34:G:H5'	35:BB:34:G:C8	2.43	0.53
35:BB:49:C:N4	35:BB:50:U:O4	2.41	0.53
35:BB:59:U:O4	35:BB:60:C:N4	2.41	0.53
35:BC:5:A:O2'	35:BC:6:U:O5'	2.27	0.53
37:BE:201:ILE:O	37:BE:201:ILE:HG22	2.07	0.53
37:BE:215:LEU:O	37:BE:218:ALA:HB3	2.07	0.53
37:BE:61:LEU:N	37:BE:64:ARG:NH1	2.56	0.53
37:BE:71:VAL:HG12	37:BE:72:GLY:N	2.23	0.53
37:BE:79:ASP:HA	37:BE:82:ARG:HB2	1.91	0.53
37:BE:85:ALA:O	37:BE:86:GLU:C	2.44	0.53
38:BF:123:GLN:HB3	38:BF:128:PHE:CE2	2.42	0.53
38:BF:157:ILE:CG2	38:BF:164:ARG:HE	2.18	0.53
38:BF:30:ARG:NH1	38:BF:30:ARG:CG	2.71	0.53
34:BA:405:U:O4	39:BG:2:GLY:HA3	2.08	0.53
40:BH:84:PHE:CE2	40:BH:130:ASN:OD1	2.61	0.53
40:BH:20:GLN:NE2	40:BH:20:GLN:HA	2.23	0.53
43:BK:85:ARG:HD2	43:BK:134:ILE:O	2.07	0.53
44:BL:70:LYS:O	44:BL:71:SER:C	2.46	0.53
47:BO:117:ARG:NE	47:BO:124:LYS:HA	2.23	0.53
34:BA:563:A:C2	47:BO:15:ARG:NH1	2.72	0.53
34:BA:908:A:H5''	47:BO:21:LYS:NZ	2.23	0.53
47:BO:35:GLY:C	47:BO:82:VAL:HG13	2.28	0.53
47:BO:97:ARG:C	47:BO:98:TYR:CD1	2.82	0.53
34:BA:1226:C:OP2	48:BP:103:THR:HG21	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:97:PRO:N	48:BP:110:ARG:HG2	2.23	0.53
48:BP:2:ALA:C	48:BP:4:ILE:HG13	2.29	0.53
50:BR:49:ASP:OD1	50:BR:52:SER:OG	2.22	0.53
50:BR:75:PRO:HA	50:BR:78:TYR:HB3	1.90	0.53
53:BU:20:ALA:O	53:BU:21:LYS:HB3	2.08	0.53
53:BU:76:LEU:N	53:BU:76:LEU:HD22	2.23	0.53
55:BW:42:GLN:HE21	55:BW:42:GLN:C	2.12	0.53
55:BW:50:GLU:N	55:BW:99:LEU:HB2	2.23	0.53
31:A7:1:MET:O	31:A7:2:LYS:C	2.46	0.53
7:AG:59:GLY:O	7:AG:60:GLU:HG3	2.07	0.53
24:A0:100:LEU:HD23	24:A0:112:ALA:HA	1.89	0.53
2:AA:446:G:OP2	25:A1:3:ARG:HB3	2.08	0.53
26:A2:22:VAL:HG12	26:A2:23:GLU:H	1.73	0.53
27:A3:33:ALA:CB	27:A3:66:LYS:H	2.20	0.53
27:A3:36:ILE:O	27:A3:37:LEU:CG	2.56	0.53
27:A3:36:ILE:CB	27:A3:68:VAL:CG1	2.80	0.53
29:A5:35:GLN:C	29:A5:37:HIS:H	2.11	0.53
2:AA:2419:U:H5'	30:A6:24:THR:CG2	2.38	0.53
30:A6:41:ASP:O	30:A6:42:PRO:O	2.26	0.53
2:AA:2359:C:C3'	32:A8:52:LYS:HZ1	2.21	0.53
2:AA:1000:A:OP2	2:AA:1154:G:N1	2.31	0.53
2:AA:1012:U:O2	12:AM:21:ARG:CG	2.52	0.53
2:AA:1095:A:C8	2:AA:1096:A:C8	2.96	0.53
2:AA:110:G:C6	2:AA:111:A:C6	2.97	0.53
2:AA:1128:A:C2	2:AA:1129:A:C6	2.92	0.53
2:AA:1148:A:C6	2:AA:1149:G:C6	2.96	0.53
2:AA:131:G:C2	2:AA:132:G:N7	2.76	0.53
2:AA:1398:C:H6	2:AA:1398:C:O5'	1.92	0.53
2:AA:138:G:N2	2:AA:139:G:OP2	2.35	0.53
2:AA:1496:A:C2	2:AA:1577:C:O2'	2.58	0.53
2:AA:153:C:C4	2:AA:174:C:N4	2.76	0.53
2:AA:1678:G:N2	2:AA:1989:G:N2	2.57	0.53
2:AA:1815:A:O2'	2:AA:1816:G:C5'	2.56	0.53
2:AA:1827:C:C2	2:AA:1828:G:C1'	2.92	0.53
2:AA:1860:G:H2'	2:AA:1861:G:H8	1.73	0.53
2:AA:1913:A:N6	2:AA:1917:U:C5	2.76	0.53
2:AA:1947:C:C2'	2:AA:1948:G:H5'	2.39	0.53
2:AA:1935:G:C5	2:AA:1962:C:C5	2.96	0.53
2:AA:197:A:C5	2:AA:2430:A:C8	2.96	0.53
2:AA:2027:G:N3	2:AA:2037:G:N2	2.56	0.53
2:AA:215:G:H4'	2:AA:216:A:H4'	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2277:G:O3'	15:AP:15:THR:HG23	2.09	0.53
2:AA:2309:A:H3'	2:AA:2310:A:H8	1.73	0.53
2:AA:2662:A:C2	2:AA:2663:G:C4'	2.91	0.53
2:AA:2687:U:O2	2:AA:2688:U:C6	2.61	0.53
2:AA:2748:A:C2	2:AA:2758:A:N7	2.76	0.53
2:AA:2522:U:O2	2:AA:2765:A:C6	2.62	0.53
2:AA:2812:G:H2'	2:AA:2813:A:H8	1.74	0.53
2:AA:2828:C:N3	2:AA:2829:C:C5	2.76	0.53
2:AA:312:G:H2'	2:AA:312:G:N3	2.23	0.53
2:AA:348:G:H3'	2:AA:349:G:C8	2.43	0.53
2:AA:372:G:H4'	28:A4:63:PHE:CE2	2.43	0.53
2:AA:464:U:C2	2:AA:465:G:C8	2.95	0.53
2:AA:502:A:O5'	2:AA:502:A:C8	2.61	0.53
2:AA:552:G:O2'	2:AA:553:U:C5'	2.53	0.53
2:AA:557:U:H2'	2:AA:558:G:H8	1.71	0.53
2:AA:571:A:N9	2:AA:2030:A:N6	2.56	0.53
2:AA:580:C:C2	2:AA:581:C:C5	2.97	0.53
2:AA:718:A:H3'	2:AA:719:C:O4'	2.07	0.53
2:AA:729:G:C8	2:AA:764:A:OP1	2.54	0.53
1:AB:71:C:C2	1:AB:72:G:C8	2.96	0.53
3:AC:104:LEU:HB2	3:AC:127:LEU:HD23	1.90	0.53
3:AC:100:ILE:HG22	3:AC:127:LEU:HG	1.90	0.53
3:AC:129:ARG:C	3:AC:130:ILE:HD12	2.29	0.53
3:AC:171:ILE:HD12	3:AC:196:LEU:HD13	1.90	0.53
4:AD:142:ASN:CG	4:AD:190:THR:HG23	2.28	0.53
2:AA:2209:C:C1'	4:AD:149:ARG:NH2	2.71	0.53
4:AD:60:GLN:O	4:AD:62:ARG:N	2.41	0.53
9:AI:111:ALA:C	9:AI:115:LYS:HE3	2.28	0.53
9:AI:22:VAL:CG1	9:AI:38:ALA:HB1	2.33	0.53
2:AA:1058:G:O2'	9:AI:3:ILE:CG1	2.56	0.53
9:AJ:30:GLY:C	9:AJ:32:THR:H	2.12	0.53
12:AM:72:PRO:CB	12:AM:77:GLY:HA3	2.38	0.53
12:AM:92:GLN:O	12:AM:95:ARG:HB2	2.08	0.53
14:AO:117:GLU:CD	14:AO:136:ALA:C	2.67	0.53
2:AA:2278:A:P	15:AP:15:THR:HG21	2.48	0.53
15:AP:50:VAL:CG1	15:AP:147:VAL:HG22	2.39	0.53
15:AP:61:LEU:HD23	15:AP:61:LEU:H	1.72	0.53
15:AP:71:PHE:N	15:AP:71:PHE:CD1	2.76	0.53
16:AQ:46:GLN:HB3	16:AQ:57:THR:HG21	1.90	0.53
19:AT:6:LYS:HE2	19:AT:29:ASP:HA	1.90	0.53
21:AV:112:LEU:HD13	21:AV:142:ASN:HA	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:3:LEU:HD13	21:AV:34:LEU:HD22	1.88	0.53
21:AV:68:ALA:HB3	21:AV:82:ASP:CG	2.29	0.53
23:AX:55:ARG:HH11	23:AX:55:ARG:CB	2.10	0.53
34:BA:1077:G:H22	34:BA:1079:G:C3'	2.22	0.53
34:BA:1078:U:O4	34:BA:1079:G:C6	2.61	0.53
34:BA:1137:C:H5'	34:BA:1138:G:C2	2.43	0.53
34:BA:1193:G:C8	34:BA:1193:G:C3'	2.91	0.53
34:BA:1350:A:N6	34:BA:1373:G:C2	2.76	0.53
34:BA:1451:A:C5'	34:BA:1452:C:H41	2.21	0.53
34:BA:1496:C:N4	34:BA:1497:G:C6	2.76	0.53
34:BA:68:G:H8	34:BA:68:G:O5'	1.91	0.53
34:BA:767:A:C8	34:BA:767:A:O5'	2.61	0.53
34:BA:859:A:N7	34:BA:860:A:C5	2.76	0.53
34:BA:894:G:C2'	34:BA:895:G:H8	2.17	0.53
34:BA:987:G:H2'	34:BA:988:G:C5'	2.34	0.53
35:BB:33:U:C5	35:BB:35:A:P	2.99	0.53
35:BB:49:C:N3	35:BB:65:G:C2	2.75	0.53
35:BC:31:A:C8	35:BC:32:C:H5	2.26	0.53
37:BE:54:THR:CG2	37:BE:201:ILE:HD11	2.34	0.53
38:BF:126:ARG:HB2	38:BF:128:PHE:CE1	2.43	0.53
38:BF:174:PRO:HB2	38:BF:177:THR:HG22	1.91	0.53
38:BF:19:GLU:CB	38:BF:54:ARG:HE	2.20	0.53
39:BG:14:ARG:C	39:BG:14:ARG:HD3	2.27	0.53
39:BG:191:ARG:HH22	39:BG:196:LEU:HB2	1.71	0.53
39:BG:195:ALA:O	39:BG:196:LEU:C	2.43	0.53
43:BK:14:ARG:H	43:BK:14:ARG:HH11	1.56	0.53
45:BM:32:ALA:CB	45:BM:76:ASN:ND2	2.56	0.53
46:BN:11:LYS:N	46:BN:13:GLN:NE2	2.56	0.53
34:BA:36:C:OP1	47:BO:123:LYS:HE2	2.08	0.53
48:BP:51:ALA:O	48:BP:54:VAL:HB	2.08	0.53
48:BP:55:ARG:O	48:BP:56:LEU:C	2.46	0.53
34:BA:974:A:C4	49:BQ:31:ARG:NH2	2.77	0.53
34:BA:995:C:C2'	49:BQ:4:LYS:NZ	2.70	0.53
50:BR:36:ILE:HG22	50:BR:37:ASN:HD22	1.73	0.53
50:BR:64:ARG:CG	50:BR:65:ARG:H	2.21	0.53
53:BU:70:ILE:CG2	53:BU:74:ARG:NE	2.63	0.53
53:BU:67:ALA:O	53:BU:70:ILE:HB	2.08	0.53
56:BX:14:TRP:CE3	56:BX:15:ARG:HG3	2.43	0.53
10:AK:112:LYS:C	10:AK:114:LYS:H	2.12	0.53
10:AK:133:LEU:H	10:AK:138:THR:CG2	2.21	0.53
10:AK:94:THR:HG23	10:AK:94:THR:O	2.06	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A1:110:VAL:O	25:A1:114:ARG:CG	2.54	0.53
25:A1:74:MET:HE3	25:A1:75:ASN:N	2.24	0.53
26:A2:39:PHE:O	26:A2:40:VAL:CG1	2.52	0.53
2:AA:2352:A:N1	27:A3:30:VAL:HG12	2.24	0.53
27:A3:63:SER:O	27:A3:64:ASP:CG	2.47	0.53
32:A8:18:GLY:O	32:A8:20:GLY:N	2.40	0.53
32:A8:32:GLN:O	32:A8:33:ASN:O	2.27	0.53
2:AA:1044:G:N2	2:AA:1111:A:O4'	2.41	0.53
2:AA:1139:G:O5'	2:AA:1139:G:H8	1.92	0.53
2:AA:1141:U:O2'	2:AA:1142:U:OP2	2.27	0.53
2:AA:142(A):A:C3'	2:AA:1143:A:H5'	2.38	0.53
2:AA:1254:A:N7	2:AA:1256:G:C1'	2.71	0.53
2:AA:1274:A:C2	2:AA:1302:A:H2	2.26	0.53
2:AA:1286:A:C2	2:AA:1329:U:N3	2.76	0.53
2:AA:1392:A:C2	2:AA:1393:A:N1	2.76	0.53
2:AA:1668:A:N3	2:AA:1670:C:N4	2.55	0.53
2:AA:1838:C:O2	2:AA:1898:U:C4	2.62	0.53
2:AA:189:G:O6	2:AA:205:G:C4	2.61	0.53
2:AA:1920:C:C2'	2:AA:1921:G:O5'	2.56	0.53
2:AA:1932:A:N1	2:AA:1933:G:C4	2.76	0.53
2:AA:1827:C:C5'	2:AA:1971:A:H4'	2.39	0.53
2:AA:2010:G:C5	2:AA:2011:U:C6	2.96	0.53
2:AA:2051:A:H5'	2:AA:2578:G:H5''	1.90	0.53
2:AA:2131:G:C4	2:AA:2131:G:OP1	2.62	0.53
2:AA:215:G:C1'	2:AA:216:A:H4'	2.38	0.53
2:AA:2275:C:O2'	15:AP:103:ALA:CA	2.55	0.53
2:AA:2320:A:H61	16:AQ:13:ARG:HG2	1.73	0.53
2:AA:2345:G:C8	2:AA:2371:G:N2	2.76	0.53
2:AA:2481:G:O2'	2:AA:2482:G:H8	1.92	0.53
2:AA:2684:U:C4'	13:AN:76:TYR:CE2	2.90	0.53
2:AA:1296:G:OP1	2:AA:2709:G:H4'	2.08	0.53
2:AA:270(H):C:N4	2:AA:270(R):G:C2	2.77	0.53
2:AA:280:C:O2'	2:AA:281:G:C5	2.61	0.53
2:AA:2825:C:H6	2:AA:2825:C:O5'	1.90	0.53
2:AA:2845:G:HO2'	2:AA:2846:G:C4'	2.21	0.53
2:AA:301:G:O6	2:AA:316:C:N3	2.41	0.53
2:AA:359:A:O2'	2:AA:360:G:C8	2.48	0.53
2:AA:445:C:H2'	25:A1:3:ARG:HH21	1.71	0.53
2:AA:548:A:C5'	2:AA:549:G:C8	2.87	0.53
2:AA:688:U:O2'	2:AA:689:A:H5'	2.07	0.53
2:AA:792:G:O6	2:AA:2440:C:O4'	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:821:A:N6	2:AA:946:G:N3	2.56	0.53
2:AA:83:G:N1	2:AA:102:G:H2'	2.23	0.53
2:AA:908:C:O2'	2:AA:909:A:H5'	2.08	0.53
2:AA:90:U:H5'	2:AA:91:A:OP1	2.08	0.53
2:AA:978:G:C6	2:AA:979:G:N1	2.77	0.53
2:AA:986:C:C3'	2:AA:986:C:H6	2.07	0.53
1:AB:54:G:C5	1:AB:55:U:C5	2.96	0.53
1:AB:61:G:N3	1:AB:62:C:C5	2.76	0.53
1:AB:82:G:O2'	1:AB:83:G:C5'	2.57	0.53
4:AD:209:ASN:O	4:AD:212:HIS:N	2.41	0.53
4:AD:95:TYR:HB3	4:AD:99:GLU:HG3	1.89	0.53
5:AE:250:VAL:O	5:AE:251:PRO:C	2.38	0.53
6:AF:210:ALA:O	6:AF:211:ASP:HB3	2.08	0.53
6:AF:219:ASN:H	6:AF:222:ASP:CB	2.20	0.53
7:AG:134:LEU:HD13	7:AG:136:ARG:CZ	2.38	0.53
7:AG:134:LEU:HD13	7:AG:136:ARG:NH2	2.22	0.53
8:AH:93:TYR:CD1	8:AH:106:VAL:HG22	2.43	0.53
9:AJ:15:VAL:HG22	9:AJ:49:ALA:N	2.22	0.53
10:AK:34:GLY:O	10:AK:35:LEU:HG	2.07	0.53
10:AK:44:LEU:HA	10:AK:47:LEU:HD23	1.90	0.53
11:AL:132:ALA:C	11:AL:137:ILE:O	2.47	0.53
11:AL:96:ILE:HG23	11:AL:138:GLU:OE2	2.08	0.53
12:AM:45:VAL:CG2	12:AM:131:THR:N	2.66	0.53
12:AM:139:LEU:H	12:AM:139:LEU:HD13	1.73	0.53
12:AM:95:ARG:O	12:AM:96:GLU:C	2.46	0.53
13:AN:106:LEU:HD12	13:AN:114:ILE:CG2	2.37	0.53
13:AN:25:LEU:HD21	13:AN:40:VAL:CG2	2.39	0.53
14:AO:94:ARG:O	14:AO:120:LEU:CD1	2.56	0.53
16:AQ:12:ARG:CZ	16:AQ:20:TYR:CZ	2.91	0.53
16:AQ:27:LEU:O	16:AQ:27:LEU:CD1	2.55	0.53
18:AS:28:SER:CB	18:AS:31:GLU:HB3	2.37	0.53
19:AT:5:ILE:HD11	19:AT:41:VAL:CA	2.38	0.53
2:AA:138:G:H1'	19:AT:42:GLU:CD	2.29	0.53
21:AV:18:MET:H	21:AV:36:ARG:NH2	2.06	0.53
21:AV:3:LEU:HD12	21:AV:54:ILE:CD1	2.39	0.53
22:AW:19:GLU:HA	22:AW:22:ASP:OD2	2.08	0.53
22:AW:36:ALA:O	22:AW:37:GLY:C	2.46	0.53
23:AX:14:GLY:O	23:AX:15:TYR:C	2.45	0.53
23:AX:6:VAL:HG22	23:AX:54:VAL:CG2	2.39	0.53
34:BA:108:G:C2	34:BA:109:A:N1	2.76	0.53
34:BA:1098:C:H2'	34:BA:1099:G:C5'	2.37	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:109:A:N6	34:BA:326:G:C6	2.74	0.53
34:BA:1106:G:N1	34:BA:1107:C:C4	2.77	0.53
34:BA:114:U:C2'	34:BA:114:U:O2	2.56	0.53
34:BA:1213:A:C2	34:BA:1215:G:C1'	2.89	0.53
34:BA:1347:G:N7	44:BL:107:ARG:NH1	2.55	0.53
34:BA:1347:G:N1	34:BA:1374:A:OP2	2.40	0.53
34:BA:1419:G:O2'	34:BA:1420:C:O5'	2.25	0.53
34:BA:21:G:H21	34:BA:915:A:N6	2.05	0.53
34:BA:233:C:C2	34:BA:234:C:C6	2.97	0.53
34:BA:236:G:C6	34:BA:237:C:N4	2.77	0.53
34:BA:242:C:H2'	34:BA:243:A:C5'	2.37	0.53
34:BA:327:A:N6	34:BA:329:A:C6	2.77	0.53
34:BA:339:C:C2'	34:BA:340:U:O5'	2.57	0.53
34:BA:517:G:H5''	34:BA:518:C:OP1	2.08	0.53
34:BA:560:U:H4'	34:BA:561:U:H5''	1.89	0.53
34:BA:620:C:C5	34:BA:621:A:C8	2.95	0.53
34:BA:606:G:N2	34:BA:631:G:C2	2.76	0.53
34:BA:648:A:N1	34:BA:649:G:C5	2.76	0.53
34:BA:659:U:H2'	34:BA:660:G:H8	1.72	0.53
34:BA:662:G:O2'	34:BA:836:G:C5'	2.57	0.53
34:BA:719:C:H3'	34:BA:720:C:C5	2.43	0.53
34:BA:579:G:C6	34:BA:763:G:N1	2.76	0.53
34:BA:809:G:C2'	34:BA:810:C:C5'	2.86	0.53
34:BA:866:C:H5	34:BA:867:G:N9	2.06	0.53
34:BA:885:G:C2	34:BA:886:G:N7	2.77	0.53
34:BA:930:C:C4	34:BA:931:C:C5	2.95	0.53
35:BC:20:G:N2	35:BC:21:A:C5'	2.47	0.53
35:BC:72:C:C6	35:BC:73:A:N7	2.76	0.53
37:BE:104:ASN:OD1	37:BE:107:THR:HB	2.09	0.53
37:BE:88:ALA:HA	37:BE:219:VAL:HG13	1.90	0.53
38:BF:131:ARG:NH2	38:BF:164:ARG:HH22	2.05	0.53
38:BF:186:PHE:CE1	38:BF:187:ALA:C	2.82	0.53
39:BG:121:VAL:HA	39:BG:126:ILE:HD11	1.88	0.53
39:BG:89:THR:O	39:BG:90:GLY:C	2.45	0.53
42:BJ:122:HIS:O	42:BJ:123:GLU:C	2.46	0.53
42:BJ:17:VAL:HG21	42:BJ:44:TYR:CZ	2.43	0.53
43:BK:126:LYS:NZ	43:BK:127:LEU:CG	2.69	0.53
43:BK:93:VAL:CB	43:BK:133:LEU:HD12	2.38	0.53
43:BK:31:PHE:CD2	43:BK:31:PHE:C	2.82	0.53
43:BK:21:LYS:O	43:BK:63:LEU:CD1	2.56	0.53
43:BK:89:PRO:CA	43:BK:92:ARG:HH21	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BO:117:ARG:NE	47:BO:123:LYS:O	2.38	0.53
47:BO:120:TYR:O	47:BO:121:GLY:O	2.26	0.53
34:BA:529:G:O6	47:BO:49:ASN:CG	2.46	0.53
48:BP:22:ILE:HD12	48:BP:25:ILE:HD12	1.87	0.53
52:BT:22:LEU:HD12	52:BT:40:LYS:O	2.07	0.53
52:BT:91:ARG:HA	52:BT:94:ASN:ND2	2.23	0.53
53:BU:39:VAL:HA	53:BU:42:ARG:CD	2.38	0.53
53:BU:63:GLN:O	53:BU:67:ALA:HB2	2.09	0.53
55:BW:23:ARG:O	55:BW:24:LEU:C	2.46	0.53
55:BW:88:VAL:O	55:BW:91:LEU:HB2	2.09	0.53
56:BX:9:ARG:NH2	56:BX:21:TYR:HB3	2.23	0.53
2:AA:1050:A:H2'	2:AA:1051:G:H5'	1.90	0.53
8:AH:29:LYS:HE3	8:AH:80:LYS:CA	2.39	0.53
21:AV:26:LYS:CB	21:AV:27:GLU:OE2	2.53	0.53
24:A0:93:GLY:C	24:A0:95:THR:H	2.10	0.53
25:A1:33:ARG:O	25:A1:35:ALA:N	2.41	0.53
25:A1:89:ASP:OD1	26:A2:52:GLY:CA	2.57	0.53
26:A2:65:ARG:NH1	26:A2:94:LYS:HZ2	2.07	0.53
27:A3:69:PHE:C	27:A3:70:ILE:CG1	2.76	0.53
31:A7:33:ARG:C	31:A7:37:LYS:HD2	2.29	0.53
2:AA:1070:A:N6	2:AA:1096:A:H2	2.04	0.53
2:AA:1334:G:H2'	2:AA:1335:U:H6	1.73	0.53
2:AA:1352:U:H1'	2:AA:1570:A:H2	1.71	0.53
2:AA:1467:C:C5	2:AA:1468:C:C5	2.92	0.53
2:AA:1627:G:OP2	2:AA:1627:G:C8	2.62	0.53
2:AA:179:G:C5	2:AA:180:G:N7	2.77	0.53
2:AA:1858:G:OP2	2:AA:1858:G:H8	1.92	0.53
2:AA:188:G:H2'	2:AA:189:G:C5'	2.39	0.53
2:AA:1918:A:C5	2:AA:1919:A:N6	2.76	0.53
2:AA:1977:A:N3	2:AA:1978:A:N9	2.56	0.53
2:AA:1980:G:O2'	2:AA:1981:A:P	2.67	0.53
2:AA:2047:U:O2	2:AA:2048:G:C8	2.61	0.53
2:AA:2057:A:C2'	2:AA:2058:A:O5'	2.57	0.53
2:AA:2079:U:C4	2:AA:2080:G:N7	2.77	0.53
2:AA:2094:G:O2'	2:AA:2095:C:H5'	2.09	0.53
2:AA:2183:C:N3	2:AA:2184:G:N7	2.55	0.53
2:AA:2250:G:C8	2:AA:2250:G:H5''	2.43	0.53
2:AA:2306:C:N4	7:AG:53:LYS:NZ	2.56	0.53
2:AA:2456:C:H2'	2:AA:2457:U:O4'	2.08	0.53
2:AA:2604:U:C2'	2:AA:2605:U:O5'	2.56	0.53
2:AA:2619:C:C2'	2:AA:2620:C:O5'	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2628:C:O2'	2:AA:2781:A:H2'	2.09	0.53
2:AA:2646:C:N4	2:AA:2732:G:C2	2.76	0.53
2:AA:2654:A:H61	2:AA:2667:C:N4	2.06	0.53
2:AA:2742:C:O2	2:AA:2743:C:C6	2.61	0.53
2:AA:2817:G:H1	2:AA:2829:C:H42	1.56	0.53
2:AA:2822:G:OP1	5:AE:258:TYR:HE2	1.90	0.53
2:AA:2831:G:C1'	2:AA:2883:A:C2	2.92	0.53
2:AA:2859:G:H8	2:AA:2859:G:O5'	1.91	0.53
2:AA:300:A:N3	2:AA:319:C:H1'	2.23	0.53
2:AA:271:G:N2	2:AA:404:C:N4	2.56	0.53
2:AA:513:A:C6	2:AA:514:A:N7	2.77	0.53
2:AA:619:G:N7	2:AA:620:G:C2	2.77	0.53
2:AA:646:A:H2	2:AA:647:G:C4	2.27	0.53
2:AA:6:A:O3'	12:AM:6:PHE:CE2	2.62	0.53
2:AA:717:G:N2	2:AA:718:A:H1'	2.23	0.53
2:AA:729:G:O6	2:AA:1775:U:N3	2.40	0.53
2:AA:59:U:C2	2:AA:73:A:C2	2.97	0.53
2:AA:740:U:H2'	2:AA:741:G:C8	2.34	0.53
2:AA:748:G:C6	2:AA:750:A:C2	2.97	0.53
2:AA:783:A:C2'	2:AA:784:A:C5'	2.86	0.53
2:AA:82:G:N2	2:AA:105:C:N4	2.55	0.53
2:AA:942:G:H2'	2:AA:943:U:C1'	2.38	0.53
2:AA:975:G:C5	2:AA:990:A:C5	2.97	0.53
2:AA:996:A:C6	2:AA:997:G:N7	2.76	0.53
2:AA:2132:U:O3'	3:AC:5:LYS:N	2.41	0.53
4:AD:70:LYS:CD	4:AD:73:ILE:HD12	2.38	0.53
4:AD:97:ASP:O	4:AD:97:ASP:OD2	2.27	0.53
5:AE:39:GLN:OE1	5:AE:174:LEU:HD11	2.05	0.53
5:AE:194:ARG:HG3	5:AE:197:GLU:CD	2.29	0.53
5:AE:234:ARG:O	5:AE:235:ILE:O	2.25	0.53
5:AE:41:PHE:HB2	5:AE:311:PHE:HE1	1.71	0.53
6:AF:111:VAL:HA	6:AF:220:THR:CG2	2.26	0.53
6:AF:220:THR:O	6:AF:225:PRO:CD	2.48	0.53
6:AF:25:PRO:O	6:AF:26:VAL:HB	2.08	0.53
6:AF:84:VAL:CG2	6:AF:85:LYS:HZ2	2.14	0.53
6:AF:96:LYS:O	6:AF:98:ARG:CD	2.57	0.53
8:AH:85:ALA:O	8:AH:148:ARG:NH2	2.40	0.53
9:AI:30:GLY:C	9:AI:32:THR:H	2.12	0.53
9:AI:41:ALA:O	9:AI:44:VAL:HB	2.08	0.53
10:AK:26:ALA:HA	10:AK:30:LEU:CD1	2.39	0.53
12:AM:36:VAL:HG12	12:AM:38:VAL:CG2	2.36	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:74:ARG:HG3	12:AM:141:ALA:O	2.07	0.53
13:AN:64:ARG:HG3	13:AN:79:PHE:CD1	2.30	0.53
13:AN:86:ILE:HG23	13:AN:87:ILE:N	2.23	0.53
15:AP:69:ASN:C	15:AP:69:ASN:HD22	2.12	0.53
7:AG:146:LYS:CE	16:AQ:15:GLU:OE2	2.56	0.53
20:AU:103:LEU:HD22	20:AU:109:GLU:CA	2.36	0.53
20:AU:103:LEU:C	20:AU:105:ASP:H	2.10	0.53
21:AV:118:HIS:ND1	21:AV:167:THR:C	2.62	0.53
22:AW:30:ALA:O	22:AW:34:GLN:HG2	2.09	0.53
22:AW:52:ALA:HA	22:AW:55:ARG:HH11	1.70	0.53
2:AA:929:G:O2'	23:AX:37:LEU:HD13	2.08	0.53
36:B1:50:G:C2	36:B1:51:G:C5	2.97	0.53
34:BA:1006:C:N3	34:BA:1023:G:O6	2.41	0.53
34:BA:1030:C:H2'	34:BA:30(A):G:C8	2.43	0.53
34:BA:1041:A:H2'	34:BA:1042:G:O5'	2.08	0.53
34:BA:1089:G:C6	34:BA:1090:U:C5	2.96	0.53
34:BA:1129:C:H4'	34:BA:1131:G:C5	2.39	0.53
34:BA:11:G:O5'	34:BA:11:G:H8	1.92	0.53
34:BA:1267:C:N4	34:BA:1268:A:N1	2.56	0.53
34:BA:1462:G:H2'	34:BA:1463:C:H6	1.72	0.53
34:BA:1480:G:O2'	34:BA:1481:U:H5'	2.09	0.53
34:BA:1533:C:HO2'	34:BA:1535:C:H5	1.56	0.53
34:BA:129(A):G:O2'	34:BA:190(E):U:H3'	2.08	0.53
34:BA:264:U:H2'	34:BA:265:G:C5'	2.37	0.53
34:BA:280:C:H1'	52:BT:38:ARG:HD3	1.90	0.53
34:BA:342:C:N1	34:BA:348:G:N2	2.56	0.53
34:BA:475:G:N3	34:BA:476:G:C8	2.77	0.53
34:BA:52:G:N3	34:BA:53:A:C8	2.76	0.53
34:BA:774:G:C8	34:BA:774:G:H5''	2.44	0.53
34:BA:781:A:O2'	34:BA:782:A:OP1	2.26	0.53
34:BA:915:A:H2'	34:BA:916:G:H5'	1.90	0.53
34:BA:97:G:H2'	34:BA:98:U:H6	1.74	0.53
35:BC:17:U:C5'	35:BC:18:G:O5'	2.56	0.53
37:BE:156:LYS:HG2	37:BE:156:LYS:O	2.09	0.53
37:BE:163:PHE:CA	37:BE:185:ILE:HD12	2.38	0.53
37:BE:46:LYS:O	37:BE:49:GLU:N	2.41	0.53
37:BE:53:ARG:HA	37:BE:56:ARG:NH1	2.23	0.53
38:BF:71:ALA:HA	38:BF:106:VAL:HB	1.89	0.53
38:BF:115:LEU:O	38:BF:117:ALA:N	2.41	0.53
39:BG:122:ARG:CA	39:BG:122:ARG:HE	2.16	0.53
39:BG:110:PHE:HE1	39:BG:148:VAL:HG23	1.71	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BG:156:GLU:O	39:BG:160:GLN:HG2	2.09	0.53
39:BG:175:SER:OG	39:BG:184:LYS:O	2.23	0.53
41:BI:84:ASN:HA	41:BI:86:ARG:NH2	2.24	0.53
43:BK:65:TYR:N	43:BK:65:TYR:CD1	2.75	0.53
43:BK:17:THR:CG2	43:BK:80:ILE:HD13	2.37	0.53
45:BM:6:ILE:HG22	45:BM:98:ILE:CD1	2.38	0.53
34:BA:683:G:N2	46:BN:39:PRO:CD	2.71	0.53
34:BA:684:A:C2'	46:BN:39:PRO:HG2	2.39	0.53
49:BQ:29:ARG:O	49:BQ:33:VAL:HG13	2.08	0.53
34:BA:750:G:H4'	50:BR:20:GLY:O	2.08	0.53
51:BS:20:VAL:HG13	51:BS:21:VAL:H	1.72	0.53
53:BU:53:ARG:HH11	53:BU:59:SER:CA	2.21	0.53
54:BV:72:GLY:O	54:BV:74:PHE:N	2.41	0.53
34:BA:1222:G:P	54:BV:77:THR:HG21	2.49	0.53
55:BW:40:ALA:O	55:BW:43:LEU:N	2.41	0.53
55:BW:44:ALA:CB	55:BW:92:LEU:HD21	2.38	0.53
10:AK:94:THR:O	10:AK:97:GLN:HB2	2.08	0.53
2:AA:1483:G:C2	2:AA:1507:A:O2'	2.61	0.53
2:AA:2108:C:H3'	2:AA:2109:U:C5	2.43	0.53
24:A0:45:ARG:O	24:A0:49:ASP:HB2	2.09	0.53
25:A1:14:HIS:CG	25:A1:36:PHE:HZ	2.26	0.53
26:A2:60:VAL:HG12	26:A2:98:ILE:HD12	1.90	0.53
28:A4:41:PRO:HG2	28:A4:57:ASP:HB3	1.90	0.53
28:A4:48:ARG:HG2	28:A4:49:PHE:CG	2.43	0.53
29:A5:42:SER:HG	29:A5:43:HIS:CE1	2.24	0.53
29:A5:4:HIS:HB2	29:A5:5:PRO:CD	2.38	0.53
31:A7:41:GLN:O	31:A7:42:LEU:CG	2.51	0.53
31:A7:43:THR:HA	31:A7:46:ASP:OD1	2.09	0.53
32:A8:63:PRO:HG2	32:A8:64:ARG:H	1.74	0.53
2:AA:443:A:H1'	2:AA:1201:C:H5'	1.90	0.53
2:AA:1219:G:N1	2:AA:1230:C:O2	2.28	0.53
2:AA:1261:C:OP2	2:AA:1261:C:C3'	2.55	0.53
2:AA:1266:G:O2'	2:AA:2012:G:N1	2.41	0.53
2:AA:1381:G:C5	2:AA:1382:G:C5	2.96	0.53
2:AA:138:G:C2'	2:AA:140:A:OP2	2.57	0.53
2:AA:1432:C:H2'	2:AA:1433:U:C6	2.43	0.53
2:AA:1628:G:N2	2:AA:1629:U:C2	2.76	0.53
2:AA:1801:G:OP1	2:AA:1801:G:C8	2.58	0.53
2:AA:1815:A:OP1	2:AA:1822:G:H4'	2.08	0.53
2:AA:1824:G:C2	2:AA:1825:A:H1'	2.42	0.53
2:AA:1833:U:H2'	2:AA:1834:U:C6	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1916:A:H2'	2:AA:1917:U:C4	2.43	0.53
2:AA:193:U:H2'	2:AA:194:G:H8	1.74	0.53
2:AA:1959:G:H1'	34:BA:1418:A:C2	2.44	0.53
2:AA:1981:A:C3'	2:AA:1982:C:C5'	2.86	0.53
2:AA:2032:G:H4'	2:AA:2033:A:OP1	2.09	0.53
2:AA:2052:G:C5	2:AA:2053:G:N7	2.77	0.53
2:AA:2093:G:OP2	10:AK:25:TYR:CZ	2.62	0.53
2:AA:2132:U:O2	2:AA:2133:G:C4	2.61	0.53
2:AA:2179:C:H2'	2:AA:2180:U:C5	2.44	0.53
2:AA:227:A:H61	2:AA:2407:G:H8	1.57	0.53
2:AA:2484:G:C2'	2:AA:2485:G:C5'	2.80	0.53
2:AA:2528:U:O2	2:AA:2536:G:N2	2.42	0.53
2:AA:243:U:O4	2:AA:255:A:C8	2.61	0.53
2:AA:2597:G:H8	2:AA:2597:G:OP2	1.91	0.53
2:AA:2677:G:HO2'	2:AA:2678:C:H5'	1.70	0.53
2:AA:2680:C:H3'	5:AE:206:LYS:HZ2	1.71	0.53
2:AA:281:G:H2'	2:AA:282:A:O4'	2.07	0.53
2:AA:2870:C:O2	2:AA:2871:C:C1'	2.56	0.53
2:AA:445:C:C3'	25:A1:3:ARG:NH2	2.68	0.53
2:AA:451:C:H2'	2:AA:452:G:N7	2.23	0.53
2:AA:28:A:H1'	2:AA:513:A:N1	2.23	0.53
2:AA:597:U:H2'	2:AA:598:G:C8	2.44	0.53
2:AA:665:C:H2'	2:AA:666:G:C8	2.44	0.53
2:AA:684:G:C2	2:AA:794:G:C2	2.97	0.53
2:AA:684:G:C4	2:AA:775:G:C6	2.95	0.53
2:AA:766:C:H2'	2:AA:767:U:O4'	2.09	0.53
2:AA:811:U:H6	2:AA:811:U:H3'	1.72	0.53
2:AA:989:G:C2'	2:AA:990:A:OP2	2.56	0.53
1:AB:117:G:C6	1:AB:118:G:C5	2.96	0.53
1:AB:57:A:H1'	7:AG:13:MET:SD	2.48	0.53
3:AC:96:GLY:C	3:AC:98:GLU:N	2.59	0.53
4:AD:152:GLN:O	4:AD:153:LEU:CB	2.53	0.53
4:AD:128:ALA:HB2	4:AD:190:THR:HA	1.90	0.53
4:AD:208:GLY:O	4:AD:211:HIS:CG	2.62	0.53
4:AD:71:ASP:CG	4:AD:72:GLY:H	2.11	0.53
9:AI:38:ALA:HA	9:AI:41:ALA:CB	2.38	0.53
9:AI:7:ILE:HD13	11:AL:118:ALA:CA	2.28	0.53
12:AM:14:ALA:H	12:AM:40:ASN:CG	2.11	0.53
2:AA:2727:G:O2'	13:AN:70:ARG:NH2	2.40	0.53
13:AN:87:ILE:CG2	13:AN:88:ARG:O	2.55	0.53
14:AO:67:ARG:H	14:AO:67:ARG:CD	2.21	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:54:VAL:N	15:AP:115:SER:OG	2.42	0.53
15:AP:48:ASN:HD21	15:AP:122:PHE:N	2.04	0.53
2:AA:2012:G:H5'	18:AS:98:LYS:HZ3	1.72	0.53
20:AU:81:LYS:CE	20:AU:83:ASP:HB2	2.38	0.53
21:AV:134:LEU:HD23	21:AV:135:VAL:N	2.24	0.53
21:AV:1:MET:H2	21:AV:54:ILE:HD11	1.73	0.53
21:AV:33:ALA:O	21:AV:34:LEU:CD1	2.49	0.53
21:AV:16:GLU:C	21:AV:36:ARG:CZ	2.77	0.53
21:AV:39:PHE:O	21:AV:40:ASP:O	2.26	0.53
21:AV:90:GLU:O	21:AV:91:PRO:C	2.47	0.53
34:BA:1051:C:H2'	34:BA:1052:U:C6	2.44	0.53
34:BA:1073:U:O2	34:BA:1102:A:C2	2.61	0.53
34:BA:1189:C:H5''	34:BA:1190:G:OP2	2.09	0.53
34:BA:1236:A:C6	34:BA:1237:C:N4	2.77	0.53
34:BA:1288:A:H2'	34:BA:1289:A:C8	2.38	0.53
34:BA:1401:G:C6	34:BA:1504:G:N2	2.76	0.53
34:BA:183:G:N3	34:BA:223:U:O2'	2.41	0.53
34:BA:22:G:C4	34:BA:23:C:C5	2.97	0.53
34:BA:279:A:C5'	34:BA:280:C:H3'	2.37	0.53
34:BA:282:A:C5	34:BA:283:C:C5	2.97	0.53
34:BA:50:A:H62	34:BA:361:G:H4'	1.66	0.53
34:BA:405:U:H2'	34:BA:405:U:O2	2.07	0.53
34:BA:42:G:C6	34:BA:43:C:N4	2.77	0.53
34:BA:530:G:C6	35:BB:34:G:N3	2.77	0.53
34:BA:640:A:C5	34:BA:641:U:C6	2.97	0.53
34:BA:670:G:N2	34:BA:737:A:C4	2.76	0.53
34:BA:688:G:H2'	34:BA:689:C:H5'	1.90	0.53
34:BA:785:G:N2	34:BA:786:G:H1'	2.23	0.53
34:BA:793:U:H5'	34:BA:794:A:N7	2.23	0.53
34:BA:808:C:OP2	50:BR:48:LYS:NZ	2.36	0.53
34:BA:972:C:OP2	45:BM:57:LYS:HE3	2.09	0.53
35:BB:19:G:C3'	35:BB:20:G:N7	2.72	0.53
37:BE:150:SER:O	37:BE:151:GLY:O	2.26	0.53
37:BE:97:TRP:CZ3	37:BE:173:ALA:N	2.76	0.53
37:BE:44:LEU:O	37:BE:48:MET:SD	2.67	0.53
38:BF:88:ARG:HE	38:BF:100:ALA:HA	1.73	0.53
38:BF:155:GLY:O	38:BF:156:ARG:HB2	2.09	0.53
38:BF:175:LEU:HD11	38:BF:201:TYR:CE2	2.43	0.53
39:BG:100:ARG:HH22	39:BG:137:SER:HA	1.73	0.53
39:BG:152:SER:O	39:BG:158:ILE:CD1	2.56	0.53
39:BG:144:ASP:C	39:BG:184:LYS:HG2	2.29	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BH:110:LEU:O	40:BH:115:VAL:HG23	2.09	0.53
40:BH:60:TYR:CE1	40:BH:64:ARG:NE	2.76	0.53
41:BI:19:LEU:HG	41:BI:23:LYS:HD2	1.89	0.53
42:BJ:50:ILE:HG22	42:BJ:56:GLN:O	2.08	0.53
42:BJ:72:ARG:NH1	42:BJ:138:LYS:CE	2.71	0.53
42:BJ:80:VAL:HG21	42:BJ:85:TYR:CB	2.39	0.53
43:BK:25:ASP:CB	43:BK:58:TYR:CD2	2.92	0.53
43:BK:64:LYS:HD3	43:BK:79:VAL:HG11	1.90	0.53
43:BK:67:PRO:HD2	43:BK:76:PRO:CB	2.22	0.53
43:BK:97:VAL:HG22	43:BK:98:LYS:CD	2.28	0.53
43:BK:97:VAL:CG2	43:BK:98:LYS:HD3	2.29	0.53
48:BP:34:LEU:HD22	48:BP:39:ILE:O	2.08	0.53
38:BF:18:TRP:NE1	49:BQ:55:GLY:O	2.32	0.53
50:BR:25:THR:CA	50:BR:28:GLN:HG2	2.26	0.53
50:BR:36:ILE:HA	50:BR:59:MET:HE1	1.90	0.53
52:BT:17:LYS:HZ1	52:BT:47:PRO:C	2.12	0.53
53:BU:27:GLY:O	53:BU:28:GLU:C	2.45	0.53
41:BI:46:ARG:NH1	53:BU:37:VAL:HG11	2.24	0.53
53:BU:62:GLU:O	53:BU:66:LEU:CG	2.56	0.53
34:BA:192:U:O4'	55:BW:102:GLY:C	2.47	0.53
34:BA:1327:C:H5	56:BX:6:ARG:NH2	2.07	0.53
10:AK:110:LEU:CD1	10:AK:133:LEU:HD22	2.25	0.53
10:AK:94:THR:HG23	10:AK:96:LYS:CB	2.31	0.53
23:AX:3:ARG:HE	23:AX:60:GLU:C	2.09	0.53
2:AA:236:C:H4'	2:AA:431:U:H1'	1.89	0.53
24:A0:25:ALA:HA	24:A0:48:VAL:CG2	2.39	0.53
24:A0:51:LEU:HD23	24:A0:66:VAL:HG13	1.89	0.53
25:A1:64:ARG:CZ	25:A1:101:ARG:HH21	2.21	0.53
25:A1:36:PHE:O	25:A1:39:LEU:HB2	2.08	0.53
25:A1:74:MET:O	25:A1:79:PHE:CE1	2.62	0.53
26:A2:35:LEU:O	26:A2:60:VAL:HG22	2.07	0.53
26:A2:4:ILE:HD11	26:A2:13:ARG:NE	2.24	0.53
28:A4:48:ARG:CB	28:A4:71:SER:HB3	2.37	0.53
2:AA:2611:U:O2'	29:A5:2:ALA:HB2	2.09	0.53
32:A8:15:LYS:O	32:A8:22:VAL:HG22	2.08	0.53
2:AA:1022:G:H4'	2:AA:1022:G:OP1	2.09	0.53
2:AA:1061:U:O2	2:AA:1061:U:H2'	2.08	0.53
2:AA:1063:G:N2	2:AA:1076:C:C2	2.76	0.53
2:AA:1076:C:O4'	11:AL:91:GLU:OE2	2.25	0.53
2:AA:1070:A:H8	2:AA:1097:U:O5'	1.91	0.53
2:AA:10:G:HO2'	2:AA:11:G:C5'	2.21	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1019:U:O2	2:AA:1143:A:N1	2.42	0.53
2:AA:1154:G:O5'	2:AA:1154:G:H8	1.91	0.53
2:AA:1212:G:C2'	2:AA:1213:A:OP2	2.57	0.53
2:AA:1215:G:O3'	25:A1:8:ILE:HG22	2.08	0.53
2:AA:1255:U:OP1	2:AA:1256:G:C5'	2.49	0.53
2:AA:1340:U:H2'	2:AA:1341:U:OP1	2.08	0.53
2:AA:1387:C:H2'	2:AA:1388:G:H8	1.74	0.53
2:AA:1341:U:C6	2:AA:1397:U:O2	2.61	0.53
2:AA:1416:G:C2	2:AA:1583:A:C6	2.96	0.53
2:AA:1518:C:H3'	2:AA:1519:G:H4'	1.89	0.53
2:AA:1595:G:O2'	2:AA:1596:A:H5'	2.09	0.53
2:AA:1688:U:O4'	2:AA:1701:A:N6	2.41	0.53
2:AA:1701:A:H2'	2:AA:1702:G:C5'	2.39	0.53
2:AA:1772:G:O2'	2:AA:1773:A:H5'	2.09	0.53
2:AA:176:G:H2'	2:AA:177:G:C1'	2.39	0.53
2:AA:1792:G:O2'	2:AA:1793:C:H5'	2.07	0.53
2:AA:1890:A:N3	2:AA:1891:G:H1'	2.23	0.53
2:AA:1845:G:N3	2:AA:1896:G:C2	2.77	0.53
2:AA:189:G:N2	2:AA:206:U:C4	2.77	0.53
2:AA:1928:A:H3'	2:AA:1929:G:H5'	1.91	0.53
2:AA:1930:G:C4	2:AA:1968:G:O6	2.62	0.53
2:AA:1970:A:C5	2:AA:1972:A:C5	2.97	0.53
2:AA:1983:C:O2'	2:AA:1984:G:C5'	2.56	0.53
2:AA:2013:A:H2'	2:AA:2014:A:C4'	2.38	0.53
2:AA:2082:A:N7	2:AA:2239:G:N1	2.57	0.53
2:AA:2138:C:C2	2:AA:2139:C:C5	2.96	0.53
2:AA:2277:G:N3	2:AA:2277:G:C2'	2.70	0.53
2:AA:234:C:C4	2:AA:430:G:N2	2.68	0.53
2:AA:238:C:C2'	2:AA:239:U:O5'	2.57	0.53
2:AA:2403:C:O2	2:AA:2404:C:C6	2.61	0.53
2:AA:244:A:O2'	14:AO:56:LYS:HB3	2.08	0.53
2:AA:2497:A:O5'	2:AA:2497:A:C8	2.62	0.53
2:AA:2519:U:N3	2:AA:2542:A:C5	2.77	0.53
2:AA:2547:U:C5	2:AA:2566:A:C4	2.97	0.53
2:AA:2633:G:C4	2:AA:2634:G:C8	2.97	0.53
2:AA:2648:C:C4	2:AA:2649:U:C4	2.96	0.53
2:AA:2737:G:N1	2:AA:2767:C:N4	2.31	0.53
2:AA:2856:C:N4	2:AA:2862:G:C6	2.76	0.53
2:AA:2811:G:C6	2:AA:2891:G:N2	2.77	0.53
2:AA:289:A:H2'	2:AA:351:G:N7	2.23	0.53
2:AA:290:G:H3'	2:AA:290:G:C8	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:320:A:O2'	2:AA:322:A:OP2	2.24	0.53
2:AA:337:C:N4	2:AA:339:U:O4	2.42	0.53
2:AA:339:U:C6	2:AA:339:U:OP1	2.60	0.53
2:AA:412:A:H2'	2:AA:413:C:C5'	2.38	0.53
2:AA:36:G:O2'	2:AA:451:C:C6	2.61	0.53
2:AA:489:G:C2	2:AA:491:G:N9	2.77	0.53
2:AA:589:C:O2'	2:AA:590:A:H5'	2.08	0.53
2:AA:595:C:C2'	2:AA:596:G:O5'	2.57	0.53
2:AA:646:A:O2'	2:AA:647:G:O4'	2.24	0.53
2:AA:673:C:N3	2:AA:808:G:C2	2.77	0.53
2:AA:675:A:C5	2:AA:676:A:N1	2.76	0.53
2:AA:721:C:H2'	2:AA:722:A:C8	2.42	0.53
2:AA:771:G:N1	2:AA:772:C:C4	2.77	0.53
2:AA:778:G:C6	2:AA:779:U:C2	2.97	0.53
2:AA:786:C:C2'	2:AA:787:U:C5'	2.86	0.53
2:AA:92:G:OP2	2:AA:92:G:H3'	2.09	0.53
1:AB:115:G:H5'	16:AQ:59:ALA:HB1	1.85	0.53
1:AB:47:C:O3'	16:AQ:107:ASN:CG	2.46	0.53
1:AB:84:C:N4	1:AB:92:G:N1	2.27	0.53
2:AA:2115:G:H4'	3:AC:126:LYS:NZ	2.24	0.53
3:AC:39:GLU:CG	3:AC:216:THR:HB	2.31	0.53
3:AC:190:ARG:HH21	3:AC:228:SER:C	2.11	0.53
4:AD:141:HIS:HB3	4:AD:154:VAL:CG1	2.37	0.53
5:AE:180:ILE:CB	5:AE:187:HIS:HB3	2.36	0.53
6:AF:245:GLU:OE2	6:AF:245:GLU:N	2.41	0.53
7:AG:103:ASN:O	7:AG:104:PHE:CD2	2.61	0.53
7:AG:105:SER:O	7:AG:106:PHE:CD1	2.62	0.53
8:AH:104:LEU:O	8:AH:151:ARG:NH1	2.40	0.53
8:AH:73:ASN:CB	8:AH:137:LYS:HZ2	2.12	0.53
11:AL:13:LEU:HB3	11:AL:14:PRO:HD2	1.90	0.53
11:AL:15:ALA:CA	11:AL:46:THR:HB	2.39	0.53
11:AL:79:LEU:HD13	11:AL:137:ILE:CD1	2.38	0.53
12:AM:69:TYR:HD2	12:AM:71:TYR:HH	1.57	0.53
12:AM:82:THR:O	12:AM:85:GLY:CA	2.56	0.53
13:AN:7:ARG:HA	13:AN:19:VAL:O	2.08	0.53
13:AN:35:ILE:HG13	13:AN:65:THR:CG2	2.39	0.53
14:AO:94:ARG:CD	14:AO:119:THR:O	2.45	0.53
16:AQ:32:PRO:O	16:AQ:101:VAL:HG13	2.09	0.53
2:AA:1599:C:P	19:AT:33:SER:OG	2.66	0.53
19:AT:69:SER:O	19:AT:70:GLU:CB	2.57	0.53
19:AT:9:HIS:CE1	19:AT:61:GLU:OE1	2.61	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:441:U:OP2	20:AU:3:GLN:HG2	2.09	0.53
20:AU:51:LEU:CA	20:AU:97:ARG:HE	2.21	0.53
21:AV:110:GLY:C	21:AV:112:LEU:H	2.11	0.53
21:AV:134:LEU:CD2	21:AV:136:VAL:HG23	2.38	0.53
21:AV:4:THR:CG2	21:AV:56:VAL:HG22	2.38	0.53
22:AW:51:LYS:O	22:AW:54:ALA:N	2.41	0.53
23:AX:11:SER:OG	23:AX:13:ILE:HG12	2.08	0.53
2:AA:969:U:O3'	23:AX:14:GLY:HA2	2.09	0.53
34:BA:1081:G:C2'	34:BA:1082:G:H5'	2.39	0.53
34:BA:1104:G:O2'	37:BE:111:ARG:NH2	2.41	0.53
34:BA:1194:U:H2'	34:BA:1195:C:O5'	2.09	0.53
34:BA:1241:G:C6	34:BA:1242:C:C4	2.97	0.53
34:BA:1306:A:H8	34:BA:1306:A:O5'	1.91	0.53
34:BA:1331:G:HO2'	34:BA:1332:A:P	2.30	0.53
34:BA:1352:C:N4	34:BA:1370:G:N1	2.03	0.53
34:BA:1413:A:N6	34:BA:1488:G:N1	2.56	0.53
34:BA:1424:C:O2'	34:BA:1425:U:H5'	2.08	0.53
34:BA:1459:C:C4	34:BA:1460:A:N7	2.77	0.53
34:BA:184:G:C5'	34:BA:224:C:H4'	2.38	0.53
34:BA:115:G:C4	34:BA:289:G:C8	2.97	0.53
34:BA:335:C:H4'	34:BA:1434:A:C4'	2.37	0.53
34:BA:419:C:H2'	34:BA:420:U:O4'	2.08	0.53
34:BA:869:G:H4'	34:BA:872:A:C8	2.44	0.53
35:BB:55:U:O2	35:BB:57:G:C8	2.62	0.53
35:BB:74:C:C5	35:BB:75:C:H1'	2.38	0.53
37:BE:18:GLY:CA	37:BE:41:ILE:HG23	2.38	0.53
37:BE:77:ALA:HB1	37:BE:80:ILE:CB	2.37	0.53
38:BF:150:LYS:HB2	38:BF:173:VAL:HG21	1.91	0.53
39:BG:20:TYR:HA	39:BG:26:CYS:HB3	1.90	0.53
39:BG:29:PRO:O	39:BG:30:LYS:CG	2.43	0.53
40:BH:112:LEU:O	40:BH:114:GLY:N	2.41	0.53
40:BH:43:LEU:HD13	40:BH:133:TYR:CE2	2.43	0.53
44:BL:17:VAL:HA	44:BL:63:ILE:HG23	1.89	0.53
44:BL:74:ILE:O	44:BL:77:ILE:CB	2.55	0.53
47:BO:85:ILE:HG23	47:BO:85:ILE:O	2.09	0.53
47:BO:87:GLY:HA2	47:BO:98:TYR:CA	2.38	0.53
48:BP:109:THR:CG2	48:BP:110:ARG:N	2.71	0.53
50:BR:40:SER:O	50:BR:43:LEU:N	2.41	0.53
52:BT:12:SER:OG	52:BT:14:LYS:HG3	2.07	0.53
54:BV:11:VAL:HG22	54:BV:39:THR:H	1.74	0.53
55:BW:58:LYS:O	55:BW:62:LEU:HG	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:9:A:C5'	35:BB:10:G:OP2	2.57	0.53
2:AA:1484:G:C6	2:AA:1506:C:N4	2.77	0.53
2:AA:1042:G:N2	2:AA:1113:U:O2	2.41	0.53
36:B1:14:U:H2'	36:B1:15:A:H8	1.72	0.53
9:AJ:2:THR:O	9:AJ:5:GLU:HB2	2.08	0.53
37:BE:228:GLY:O	37:BE:229:VAL:O	2.27	0.53
2:AA:1146:C:H2'	2:AA:1147:C:C6	2.43	0.53
25:A1:111:ASP:O	25:A1:114:ARG:N	2.41	0.53
25:A1:96:ALA:O	25:A1:98:ILE:N	2.41	0.53
26:A2:18:ASP:OD2	26:A2:94:LYS:CE	2.57	0.53
26:A2:5:ILE:HA	26:A2:39:PHE:CD2	2.43	0.53
26:A2:60:VAL:CG1	26:A2:61:VAL:N	2.72	0.53
2:AA:1105:U:H4'	9:AI:30:GLY:H	1.70	0.53
2:AA:1319:G:O2'	2:AA:1320:C:C5'	2.52	0.53
2:AA:1335:U:H2'	2:AA:1336:A:O5'	2.08	0.53
2:AA:139:G:C8	2:AA:142:G:C1'	2.91	0.53
2:AA:1432:C:C2	2:AA:1562:A:C2	2.96	0.53
2:AA:1543:A:H2'	2:AA:1544:C:O5'	2.09	0.53
2:AA:1466:G:H2'	2:AA:1547:C:C5	2.43	0.53
2:AA:1625:C:C4	2:AA:1626:G:C8	2.97	0.53
2:AA:1796:U:C2'	2:AA:1797:C:C5	2.83	0.53
2:AA:202:U:C5	2:AA:203:C:N3	2.76	0.53
2:AA:2078:C:N3	2:AA:2079:U:C4	2.77	0.53
2:AA:2093:G:N9	2:AA:2225:A:N6	2.57	0.53
2:AA:2301:C:N3	2:AA:2302:G:N7	2.57	0.53
2:AA:2305:A:H2	7:AG:72:LYS:NZ	2.07	0.53
2:AA:2407:G:C2	2:AA:2408:U:N3	2.77	0.53
2:AA:2077:A:C4	2:AA:2435:A:N7	2.76	0.53
2:AA:244:A:N6	2:AA:245:G:C2	2.77	0.53
2:AA:2474:C:C2'	2:AA:2475:C:H5'	2.39	0.53
2:AA:2657:A:N6	2:AA:2664:G:N2	2.29	0.53
2:AA:2758:A:OP2	2:AA:2758:A:C8	2.62	0.53
2:AA:2795:G:H5''	2:AA:2799:A:C6	2.44	0.53
2:AA:2892:A:C3'	2:AA:2893:G:H8	2.21	0.53
2:AA:574:C:HO2'	2:AA:575:A:P	2.25	0.53
2:AA:617:G:C8	2:AA:618:G:C5	2.96	0.53
2:AA:1630:G:C4	2:AA:630(A):C:C5	2.97	0.53
2:AA:662:G:O2'	2:AA:663:G:H8	1.91	0.53
2:AA:695:G:N3	2:AA:696:G:C8	2.77	0.53
2:AA:729:G:H3'	2:AA:729:G:C2	2.38	0.53
2:AA:763:G:C5	2:AA:765:G:C8	2.96	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:874:G:N2	2:AA:903:C:C2	2.72	0.53
2:AA:910:A:C5	2:AA:911:A:N6	2.77	0.53
2:AA:921:G:C6	2:AA:922:U:N3	2.76	0.53
2:AA:973:A:C5	26:A2:80:TYR:CA	2.78	0.53
1:AB:89:G:C2'	1:AB:89(A):A:C8	2.87	0.53
4:AD:167:GLU:O	4:AD:170:TYR:CD1	2.62	0.53
4:AD:89:ASN:CG	4:AD:199:ARG:NH2	2.61	0.53
4:AD:211:HIS:O	4:AD:212:HIS:C	2.46	0.53
4:AD:73:ILE:HB	4:AD:95:TYR:CE2	2.44	0.53
4:AD:83:ASP:HB3	4:AD:85:ASN:HD21	1.73	0.53
2:AA:1492:G:H4'	4:AD:97:ASP:OD1	2.07	0.53
5:AE:107:GLU:CB	5:AE:110:ARG:CZ	2.84	0.53
5:AE:216:ARG:HH11	5:AE:253:GLN:CA	2.20	0.53
5:AE:83:LEU:CD1	5:AE:178:LEU:HA	2.38	0.53
6:AF:1:MET:SD	6:AF:1:MET:N	2.81	0.53
2:AA:38:A:H1'	6:AF:46:TYR:HE2	1.74	0.53
7:AG:28:GLY:O	7:AG:29:HIS:ND1	2.42	0.53
8:AH:60:HIS:O	8:AH:63:LEU:CB	2.54	0.53
8:AH:66:THR:CG2	8:AH:67:THR:N	2.71	0.53
8:AH:86:LEU:HD21	8:AH:161:ILE:CG2	2.33	0.53
9:AI:73:VAL:HG11	9:AI:123:ALA:CB	2.38	0.53
9:AJ:22:VAL:HA	9:AJ:38:ALA:HB1	1.91	0.53
11:AL:19:THR:H	11:AL:20:PRO:HD2	1.73	0.53
13:AN:93:PRO:HD2	13:AN:113:LYS:CD	2.31	0.53
15:AP:42:TYR:HA	21:AV:119:ASN:CG	2.29	0.53
15:AP:50:VAL:CG1	15:AP:51:GLU:H	2.09	0.53
2:AA:956:G:OP1	15:AP:94:ARG:NH1	2.40	0.53
20:AU:71:VAL:HA	20:AU:93:THR:HG23	1.90	0.53
21:AV:138:VAL:CB	21:AV:140:LYS:HZ1	2.22	0.53
21:AV:124:ALA:O	21:AV:159:THR:HB	2.08	0.53
21:AV:19:ILE:CG2	21:AV:20:ALA:N	2.71	0.53
21:AV:54:ILE:HG23	21:AV:55:THR:H	1.73	0.53
23:AX:50:VAL:HG12	23:AX:53:LEU:HD12	1.91	0.53
34:BA:1430:C:H2'	34:BA:1431:C:H6	1.74	0.53
34:BA:1446:A:O2'	34:BA:1447:G:H5'	2.08	0.53
34:BA:1498:U:O2'	34:BA:1499:A:H5'	2.09	0.53
34:BA:342:C:C4	34:BA:348:G:N1	2.76	0.53
34:BA:343:U:H2'	34:BA:345:C:H5	1.73	0.53
34:BA:500:G:C5	34:BA:546:G:C2	2.97	0.53
34:BA:506:G:O6	34:BA:507:C:N4	2.41	0.53
34:BA:52:G:C4	34:BA:53:A:C8	2.96	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:528:C:H1'	34:BA:535:A:C2	2.43	0.53
34:BA:583:A:O2'	34:BA:584:G:O4'	2.26	0.53
34:BA:658:G:C2'	34:BA:659:U:C5'	2.85	0.53
34:BA:750:G:O2'	50:BR:21:ASP:HA	2.09	0.53
34:BA:794:A:C6	34:BA:795:C:N4	2.77	0.53
34:BA:859:A:C2'	34:BA:860:A:C5'	2.86	0.53
34:BA:922:G:H2'	34:BA:923:A:O4'	2.09	0.53
35:BB:7:U:C5'	35:BB:8:U:OP2	2.56	0.53
35:BC:21:A:C5	35:BC:46:G:N1	2.76	0.53
35:BC:7:U:C4'	35:BC:8:U:OP2	2.43	0.53
37:BE:212:GLN:HA	37:BE:212:GLN:NE2	2.23	0.53
38:BF:50:ALA:O	38:BF:70:VAL:CG1	2.57	0.53
39:BG:120:LEU:HD23	39:BG:120:LEU:C	2.29	0.53
40:BH:9:LYS:O	40:BH:32:VAL:HG22	2.09	0.53
41:BI:15:ASP:H	41:BI:18:GLN:NE2	2.07	0.53
41:BI:75:LEU:HD13	41:BI:79:LEU:HD11	1.89	0.53
41:BI:8:ILE:CG2	41:BI:88:VAL:HG22	2.38	0.53
34:BA:1240:U:N3	42:BJ:32:ARG:NH2	2.57	0.53
45:BM:48:THR:CG2	45:BM:60:ARG:HG3	2.38	0.53
46:BN:116:HIS:O	46:BN:117:ASN:ND2	2.41	0.53
46:BN:77:MET:CE	46:BN:79:SER:O	2.55	0.53
47:BO:27:LEU:HG	47:BO:28:LYS:HG3	1.90	0.53
47:BO:92:ASP:O	47:BO:92:ASP:OD1	2.26	0.53
52:BT:97:SER:O	52:BT:98:LEU:CB	2.56	0.53
52:BT:99:SER:OG	52:BT:100:LYS:N	2.41	0.53
54:BV:40:ILE:N	54:BV:69:HIS:O	2.42	0.53
55:BW:54:LYS:HA	55:BW:57:ARG:CD	2.18	0.53
56:BX:2:GLY:O	56:BX:4:GLY:N	2.41	0.53
10:AK:128:ASN:HB2	10:AK:141:LEU:O	2.08	0.53
25:A1:93:LYS:O	26:A2:10:LYS:HD3	2.09	0.53
27:A3:14:ARG:HG3	27:A3:14:ARG:HH11	1.73	0.53
28:A4:46:GLU:O	28:A4:53:GLU:CA	2.57	0.53
29:A5:40:LYS:HE2	29:A5:48:ASN:HD22	1.74	0.53
2:AA:1034:G:O5'	33:A9:18:ARG:NH2	2.42	0.53
2:AA:1057:A:C4	2:AA:1058:G:C8	2.96	0.53
2:AA:1102:C:H1'	2:AA:1103:A:H8	1.70	0.53
2:AA:1183:G:O2'	2:AA:1184:G:C1'	2.56	0.53
2:AA:1194:A:C6	2:AA:1195:G:N7	2.77	0.53
2:AA:11:G:C6	2:AA:12:U:C4	2.97	0.53
2:AA:1224:G:O2'	26:A2:86:HIS:CB	2.57	0.53
2:AA:1365:A:C6	2:AA:1366:A:C5	2.97	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:139:G:H8	2:AA:142:G:O4'	1.89	0.53
2:AA:148:C:H2'	2:AA:149:A:H8	1.71	0.53
2:AA:121:G:H4'	2:AA:150:C:H5'	1.91	0.53
2:AA:1527:G:O2'	2:AA:1545:A:N6	2.42	0.53
2:AA:1572:A:H2'	2:AA:1573:G:OP1	2.09	0.53
2:AA:1660:C:N3	2:AA:2001:A:N1	2.57	0.53
2:AA:1661:G:C6	2:AA:1662:C:C5	2.96	0.53
2:AA:1811:G:O2'	2:AA:1812:A:H5'	2.09	0.53
2:AA:1903:G:C2	2:AA:1904:G:C8	2.97	0.53
2:AA:1909:C:C4	2:AA:1922:G:C2	2.97	0.53
2:AA:1986:A:N3	2:AA:1986:A:H2'	2.24	0.53
2:AA:2019:A:C2	2:AA:2020:A:N3	2.77	0.53
2:AA:2192:G:C6	2:AA:2193:G:N7	2.77	0.53
2:AA:20:C:H2'	2:AA:21:A:H8	1.74	0.53
2:AA:2199:A:C2	2:AA:2225:A:C2	2.96	0.53
2:AA:222:A:OP2	2:AA:271(A):C:O2	2.27	0.53
2:AA:222:A:H2'	2:AA:223:A:OP2	2.09	0.53
2:AA:2269:A:C2'	2:AA:2270:G:O5'	2.57	0.53
2:AA:246:C:H2'	2:AA:246:C:O2	2.09	0.53
2:AA:2481:G:O2'	2:AA:2482:G:C5'	2.57	0.53
2:AA:2525:G:N2	2:AA:2539:C:C4	2.77	0.53
2:AA:2538:C:O2'	2:AA:2539:C:H5'	2.09	0.53
2:AA:2572:A:C8	5:AE:241:TRP:CD1	2.97	0.53
2:AA:2584:U:C2'	2:AA:2585:U:C6	2.83	0.53
2:AA:2686:G:C5	2:AA:2687:U:C6	2.96	0.53
2:AA:270(A):A:N3	2:AA:270(A):A:H3'	2.24	0.53
2:AA:35:G:C2	2:AA:454:A:H2	2.25	0.53
2:AA:364:C:C2	2:AA:365:C:N4	2.76	0.53
2:AA:372:G:P	2:AA:373:U:OP2	2.66	0.53
2:AA:271:G:N2	2:AA:404:C:H42	2.07	0.53
2:AA:476:G:N2	2:AA:478:A:H2'	2.23	0.53
2:AA:483:A:OP2	2:AA:484:C:N4	2.38	0.53
2:AA:510:C:P	2:AA:512:G:H1	2.31	0.53
2:AA:631:A:H2'	2:AA:632:A:O4'	2.08	0.53
2:AA:771:G:C2	2:AA:772:C:C4	2.97	0.53
2:AA:7:G:C2	2:AA:8:A:C4	2.96	0.53
2:AA:669:G:HO2'	2:AA:801:G:N2	2.06	0.53
2:AA:811:U:C6	2:AA:811:U:O5'	2.62	0.53
2:AA:841:A:N6	2:AA:938:G:C6	2.76	0.53
2:AA:855:G:N3	2:AA:855:G:H2'	2.24	0.53
2:AA:995:C:H1'	25:A1:57:PHE:CE2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:118:G:C6	1:AB:119:A:N7	2.76	0.53
1:AB:63:G:C2	1:AB:64:C:N3	2.77	0.53
1:AB:16:G:N2	1:AB:69:G:H1'	2.22	0.53
3:AC:112:ALA:HB3	3:AC:156:ILE:HD13	1.90	0.53
3:AC:163:PHE:CD1	3:AC:171:ILE:HD11	2.44	0.53
3:AC:62:VAL:HG12	3:AC:163:PHE:CD2	2.44	0.53
4:AD:61:TYR:OH	4:AD:214:MET:SD	2.56	0.53
5:AE:93:GLN:O	5:AE:94:ARG:HG3	2.08	0.53
2:AA:598:G:N2	6:AF:33:LYS:NZ	2.57	0.53
6:AF:56:THR:N	6:AF:79:ARG:HE	2.00	0.53
6:AF:90:HIS:N	6:AF:91:PRO:HD3	2.24	0.53
7:AG:28:GLY:C	7:AG:69:ILE:HG12	2.30	0.53
8:AH:87:GLU:OE1	8:AH:89:VAL:N	2.42	0.53
9:AI:61:VAL:O	9:AI:102:ILE:HG22	2.09	0.53
11:AL:14:PRO:HG2	11:AL:17:LYS:HB2	1.90	0.53
12:AM:15:ARG:HB3	12:AM:43:ARG:HD2	1.90	0.53
12:AM:45:VAL:O	12:AM:46:ILE:CG1	2.41	0.53
12:AM:74:ARG:HG2	12:AM:74:ARG:NH1	2.23	0.53
14:AO:116:HIS:HD2	14:AO:118:LEU:HD11	1.74	0.53
2:AA:2495:G:O3'	15:AP:101:MET:HE2	2.09	0.53
15:AP:49:VAL:HG22	15:AP:121:ASP:N	2.23	0.53
15:AP:130:PRO:HB2	15:AP:134:PHE:HZ	1.67	0.53
15:AP:135:ALA:HA	15:AP:138:ARG:CD	2.39	0.53
16:AQ:26:LEU:O	16:AQ:28:LYS:N	2.41	0.53
16:AQ:86:LEU:O	16:AQ:90:LEU:HG	2.07	0.53
18:AS:11:ARG:C	18:AS:12:ILE:HG13	2.29	0.53
18:AS:12:ILE:HG22	18:AS:13:SER:N	2.24	0.53
2:AA:310:A:P	20:AU:53:GLY:N	2.79	0.53
21:AV:96:VAL:CG2	21:AV:130:ILE:HD13	2.29	0.53
21:AV:142:ASN:N	21:AV:171:VAL:HG21	2.23	0.53
15:AP:43:PRO:HD3	21:AV:99:HIS:CD2	2.44	0.53
36:B1:69:A:C2'	36:B1:69:A:N3	2.71	0.53
34:BA:1163:C:N4	34:BA:1174:G:C6	2.77	0.53
34:BA:1250:A:N3	34:BA:1370:G:O2'	2.40	0.53
34:BA:1257:U:C2'	34:BA:1258:G:OP2	2.57	0.53
34:BA:1263:C:O2'	34:BA:1264:C:C5'	2.55	0.53
34:BA:1320:C:C5	34:BA:1321:C:C4	2.97	0.53
34:BA:975:A:N7	34:BA:1365:G:N2	2.56	0.53
34:BA:1369:C:OP2	44:BL:111:ARG:HA	2.09	0.53
34:BA:22:G:N9	34:BA:914:A:N6	2.56	0.53
34:BA:232:G:H2'	34:BA:233:C:C6	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:241:C:H42	34:BA:285:G:H1	1.56	0.53
34:BA:317:G:O2'	34:BA:318:G:C5'	2.57	0.53
34:BA:318:G:C6	34:BA:319:G:N7	2.77	0.53
34:BA:458:C:C4	34:BA:475:G:N1	2.77	0.53
34:BA:497:A:O2'	34:BA:498:U:OP1	2.21	0.53
2:AA:1848:A:C5	34:BA:702:A:C2	2.97	0.53
34:BA:790:A:N1	34:BA:791:G:C2	2.76	0.53
34:BA:80:G:C3'	34:BA:81:U:H5'	2.34	0.53
34:BA:878:G:O4'	43:BK:3:THR:CG2	2.54	0.53
34:BA:922:G:H2'	34:BA:923:A:C8	2.43	0.53
34:BA:956:U:C2	34:BA:960:U:O4	2.61	0.53
2:AA:882:G:C5'	35:BB:19:G:O6	2.57	0.53
35:BC:57:G:C3'	35:BC:57:G:C8	2.91	0.53
37:BE:15:VAL:HG22	37:BE:209:ARG:CD	2.31	0.53
37:BE:177:ALA:O	37:BE:180:LEU:N	2.42	0.53
37:BE:61:LEU:C	37:BE:61:LEU:HD23	2.29	0.53
37:BE:64:ARG:HG2	37:BE:65:GLY:N	2.23	0.53
37:BE:77:ALA:HB3	37:BE:211:ILE:HD13	1.90	0.53
38:BF:117:ALA:O	38:BF:119:ARG:N	2.41	0.53
38:BF:147:LYS:HB2	38:BF:203:PHE:HB3	1.91	0.53
39:BG:3:ARG:NH2	39:BG:74:GLN:OE1	2.42	0.53
40:BH:104:ALA:N	40:BH:107:ARG:NH1	2.57	0.53
40:BH:8:GLU:OE2	40:BH:32:VAL:HG11	2.09	0.53
41:BI:18:GLN:O	41:BI:19:LEU:C	2.46	0.53
41:BI:52:ILE:HD13	41:BI:87:ARG:NH2	2.24	0.53
42:BJ:113:GLU:O	42:BJ:115:ARG:N	2.40	0.53
43:BK:96:GLY:N	43:BK:99:GLU:OE2	2.39	0.53
46:BN:50:TYR:CE1	46:BN:54:ARG:HB3	2.44	0.53
47:BO:102:ARG:HB3	47:BO:108:ALA:O	2.09	0.53
47:BO:117:ARG:NH1	47:BO:124:LYS:HD2	2.24	0.53
47:BO:37:CYS:SG	47:BO:58:VAL:HG22	2.49	0.53
48:BP:15:VAL:HG11	48:BP:39:ILE:CD1	2.39	0.53
34:BA:728:A:C8	50:BR:54:ARG:CZ	2.92	0.53
50:BR:81:LEU:CD2	50:BR:85:LEU:HG	2.38	0.53
52:BT:29:HIS:ND1	52:BT:31:LEU:N	2.42	0.53
52:BT:82:MET:O	52:BT:85:VAL:N	2.41	0.53
53:BU:42:ARG:O	53:BU:43:PHE:CG	2.62	0.53
35:BB:26:G:C2'	35:BB:26:G:N3	2.71	0.53
35:BB:41:U:C3'	35:BB:42:G:O4'	2.56	0.53
37:BE:140:HIS:CA	37:BE:143:GLU:HB2	2.37	0.53
9:AI:55:GLU:O	9:AI:56:LYS:CB	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:A0:34:ILE:CG2	24:A0:35:THR:H	2.21	0.53
2:AA:2354:G:C2'	27:A3:31:VAL:HG13	2.39	0.53
29:A5:6:VAL:HG13	29:A5:7:PRO:HG2	1.91	0.53
30:A6:16:ALA:C	30:A6:19:GLY:H	2.12	0.53
30:A6:34:LYS:HG3	30:A6:35:LEU:HD23	1.90	0.53
2:AA:1065:U:C3'	2:AA:1066:U:C5'	2.80	0.53
2:AA:1080:C:O2'	2:AA:1081:U:H5'	2.08	0.53
2:AA:1084:A:N7	9:AI:37:VAL:HG11	2.24	0.53
2:AA:1072:C:H2'	2:AA:1093:G:C6	2.44	0.53
2:AA:1108:U:O4	2:AA:1109:C:N4	2.42	0.53
2:AA:112:U:O4	2:AA:113:G:N3	2.42	0.53
2:AA:1324:G:N2	2:AA:1331:A:C4	2.77	0.53
2:AA:1350:C:C2	2:AA:1381:G:N2	2.69	0.53
2:AA:146:G:C2'	2:AA:147:U:C5'	2.84	0.53
2:AA:1514:U:O2	2:AA:1514:U:C2'	2.54	0.53
2:AA:151:C:N3	2:AA:152:G:C2	2.77	0.53
2:AA:1555:G:H5''	2:AA:1556:C:H5	1.74	0.53
2:AA:1754:C:C2	2:AA:1755:A:C4	2.97	0.53
2:AA:176:G:C3'	2:AA:177:G:H8	2.20	0.53
2:AA:414:C:H1'	2:AA:1864:U:O2'	2.09	0.53
2:AA:1909:C:H2'	2:AA:1910:G:H5'	1.89	0.53
2:AA:1993:U:C4'	5:AE:228:ARG:NH2	2.55	0.53
2:AA:2015:A:H2'	2:AA:2016:U:C6	2.44	0.53
2:AA:2078:C:C4'	2:AA:2434:A:H5'	2.38	0.53
2:AA:2100:G:C1'	2:AA:2190:G:N2	2.69	0.53
2:AA:2431:U:O2	2:AA:2433:A:C8	2.62	0.53
2:AA:2469:A:H2	2:AA:2482:G:C1'	2.19	0.53
2:AA:2495:G:H4'	15:AP:101:MET:HB2	1.90	0.53
2:AA:2509:G:HO2'	2:AA:2510:C:H5'	1.73	0.53
2:AA:1129:A:N1	2:AA:2570:G:H1'	2.24	0.53
2:AA:2680:C:H3'	5:AE:206:LYS:HZ1	1.72	0.53
2:AA:270:A:OP2	2:AA:270(Y):G:O2'	2.27	0.53
2:AA:2718:G:C5	2:AA:2719:G:C5	2.96	0.53
2:AA:2771:C:H2'	2:AA:2771:C:O2	2.07	0.53
2:AA:2840:C:N4	2:AA:2841:C:N4	2.57	0.53
2:AA:2850:A:H2'	2:AA:2851:A:C8	2.43	0.53
2:AA:290:G:H3'	2:AA:290:G:H8	1.74	0.53
2:AA:354:G:N2	2:AA:355:G:O6	2.42	0.53
2:AA:459:U:C5	2:AA:469:G:N2	2.76	0.53
2:AA:648:G:C2	2:AA:649:G:C5	2.96	0.53
2:AA:71:A:C3'	2:AA:72:U:H5''	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:723:G:C2	2:AA:724:U:H1'	2.43	0.53
2:AA:76:C:H4'	22:AW:55:ARG:CD	2.39	0.53
2:AA:685:A:C2	2:AA:774:A:N1	2.77	0.53
2:AA:684:G:C5	2:AA:775:G:N7	2.77	0.53
2:AA:784:A:OP1	2:AA:2588:G:C5'	2.57	0.53
2:AA:917:A:C2'	2:AA:918:A:H5''	2.39	0.53
2:AA:821:A:N7	2:AA:946:G:N7	2.57	0.53
2:AA:954:G:OP1	15:AP:10:ILE:CA	2.52	0.53
1:AB:18:G:H1'	1:AB:67:G:H22	1.74	0.53
3:AC:131:LEU:HB3	3:AC:136:LEU:CA	2.38	0.53
3:AC:74:VAL:CG1	3:AC:153:ILE:HG23	2.38	0.53
3:AC:42:GLU:HG2	3:AC:174:PRO:HA	1.90	0.53
3:AC:190:ARG:NH2	3:AC:228:SER:O	2.42	0.53
3:AC:47:LEU:HD21	3:AC:196:LEU:HD11	1.91	0.53
3:AC:68:LEU:CB	3:AC:72:VAL:CG2	2.84	0.53
4:AD:66:PHE:O	4:AD:66:PHE:CD2	2.62	0.53
6:AF:16:VAL:CG1	6:AF:17:ASP:N	2.72	0.53
6:AF:242:GLU:O	6:AF:245:GLU:HB2	2.09	0.53
7:AG:97:GLN:CD	7:AG:106:PHE:CD2	2.82	0.53
7:AG:71:ALA:C	7:AG:72:LYS:HG2	2.29	0.53
7:AG:95:THR:HG22	7:AG:96:SER:N	2.24	0.53
8:AH:115:GLU:CD	8:AH:115:GLU:O	2.47	0.53
8:AH:143:LEU:CD2	8:AH:144:ALA:N	2.67	0.53
9:AJ:25:LEU:HA	9:AJ:28:LYS:HG3	1.90	0.53
9:AJ:71:ILE:HG21	11:AL:66:PHE:CE1	2.44	0.53
2:AA:8:A:OP1	12:AM:102:ARG:NH2	2.41	0.53
12:AM:25:GLN:C	12:AM:27:ALA:N	2.59	0.53
12:AM:15:ARG:HD3	12:AM:43:ARG:HD2	1.89	0.53
15:AP:122:PHE:N	15:AP:122:PHE:CD2	2.76	0.53
16:AQ:94:GLU:O	16:AQ:95:ALA:C	2.47	0.53
17:AR:10:GLY:HA2	17:AR:53:ASP:OD2	2.09	0.53
19:AT:73:ASP:O	19:AT:78:ALA:O	2.26	0.53
20:AU:57:GLY:CA	20:AU:97:ARG:NH2	2.60	0.53
21:AV:103:ARG:H	21:AV:103:ARG:CD	2.19	0.53
22:AW:2:VAL:HG12	22:AW:3:LEU:N	2.23	0.53
34:BA:1010:G:N2	34:BA:1020:U:H1'	2.24	0.53
34:BA:1065:U:HO2'	34:BA:1066:C:P	2.32	0.53
34:BA:1097:C:H2'	34:BA:1098:C:C6	2.37	0.53
34:BA:1125:U:O3'	34:BA:1126:U:H6	1.91	0.53
34:BA:1151:A:OP1	45:BM:42:THR:N	2.42	0.53
34:BA:1182:G:C4'	34:BA:1183:A:O5'	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1226:C:H4'	34:BA:1227:A:OP1	2.09	0.53
34:BA:1310:G:C2	34:BA:1328:C:C2	2.96	0.53
34:BA:277:C:N4	34:BA:278:G:C6	2.75	0.53
34:BA:301:G:C2	34:BA:302:G:N9	2.77	0.53
34:BA:328:C:O2	34:BA:328:C:C2'	2.57	0.53
34:BA:389:A:C4	34:BA:390:C:O4'	2.62	0.53
34:BA:439:A:H5''	34:BA:494:G:N2	2.23	0.53
34:BA:460:A:N6	34:BA:462:G:N3	2.56	0.53
34:BA:452:A:N7	34:BA:480:U:O4	2.41	0.53
34:BA:483:C:H41	34:BA:484:G:N2	2.07	0.53
34:BA:68:G:C5	34:BA:69:G:C8	2.97	0.53
34:BA:665:A:N9	34:BA:725:G:N2	2.57	0.53
34:BA:791:G:H5''	34:BA:792:A:P	2.49	0.53
34:BA:834:C:N4	34:BA:853:G:O6	2.41	0.53
34:BA:830:G:C6	34:BA:857:C:N3	2.77	0.53
34:BA:897:C:C2	34:BA:903:G:C2	2.97	0.53
34:BA:949:A:C4	34:BA:1233:G:C2	2.97	0.53
34:BA:962:C:N4	34:BA:963:G:C5	2.77	0.53
35:BB:60:C:OP1	35:BB:61:C:C5	2.62	0.53
35:BB:74:C:H2'	35:BB:75:C:O4'	2.09	0.53
35:BC:62:A:C2	35:BC:63:C:C2	2.97	0.53
2:AA:2602:A:H3'	35:BC:74:C:H5''	1.91	0.53
34:BA:1107:C:P	38:BF:172:ARG:HG2	2.48	0.53
38:BF:89:GLU:O	38:BF:91:LEU:N	2.42	0.53
39:BG:94:LEU:HD12	39:BG:200:GLU:OE2	2.08	0.53
40:BH:76:ILE:CG2	40:BH:142:LEU:CD2	2.87	0.53
40:BH:20:GLN:HE21	40:BH:20:GLN:HA	1.73	0.53
40:BH:31:LEU:CD2	40:BH:31:LEU:C	2.77	0.53
40:BH:91:LEU:CD1	40:BH:110:LEU:HD11	2.39	0.53
41:BI:8:ILE:HG23	41:BI:88:VAL:HG22	1.90	0.53
42:BJ:17:VAL:O	42:BJ:18:TYR:CD1	2.62	0.53
42:BJ:64:GLN:HG3	42:BJ:128:ALA:HB1	1.90	0.53
42:BJ:93:PRO:O	42:BJ:96:GLN:N	2.41	0.53
43:BK:126:LYS:NZ	43:BK:127:LEU:CB	2.70	0.53
43:BK:84:ARG:HD3	43:BK:136:GLU:OE1	2.09	0.53
43:BK:22:GLU:O	43:BK:63:LEU:HD11	2.09	0.53
44:BL:111:ARG:NH2	45:BM:62:HIS:NE2	2.56	0.53
44:BL:15:ALA:CB	44:BL:77:ILE:N	2.72	0.53
34:BA:564:C:OP1	47:BO:15:ARG:NE	2.42	0.53
51:BS:59:TRP:O	51:BS:60:LEU:C	2.48	0.53
51:BS:70:ALA:O	51:BS:71:ARG:C	2.47	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:6:LEU:CB	52:BT:23:VAL:HG21	2.38	0.53
52:BT:27:PHE:CZ	52:BT:36:ILE:HD11	2.44	0.53
34:BA:586:C:OP1	52:BT:34:LYS:CD	2.57	0.53
52:BT:81:ARG:CG	52:BT:84:LEU:HD11	2.32	0.53
53:BU:30:ASP:OD2	53:BU:32:ARG:HB2	2.08	0.53
55:BW:13:LEU:O	55:BW:16:HIS:CB	2.57	0.53
10:AK:107:GLY:O	10:AK:109:LYS:CE	2.56	0.53
9:AJ:55:GLU:O	9:AJ:56:LYS:CB	2.57	0.53
24:A0:67:LEU:HD23	24:A0:76:VAL:CG2	2.39	0.53
24:A0:97:VAL:HA	24:A0:114:VAL:HG22	1.91	0.53
27:A3:46:LYS:N	27:A3:46:LYS:HD2	2.23	0.53
28:A4:48:ARG:O	28:A4:49:PHE:C	2.47	0.53
28:A4:48:ARG:NE	28:A4:71:SER:OG	2.41	0.53
2:AA:1020:A:C2	2:AA:1141:U:OP2	2.62	0.53
2:AA:1015:G:C6	2:AA:1148:A:C5	2.97	0.53
2:AA:1157:G:C6	2:AA:1158:C:N4	2.77	0.53
2:AA:839:U:H4'	2:AA:1191:G:C2	2.43	0.53
2:AA:1222:C:C2	2:AA:1223:C:C6	2.97	0.53
2:AA:1276:A:OP2	2:AA:1645:G:O2'	2.22	0.53
2:AA:1317:A:C4	2:AA:1318:C:C6	2.97	0.53
2:AA:1353:A:C4	2:AA:1354:A:C8	2.97	0.53
2:AA:1451:C:H3'	2:AA:1451:C:H6	1.73	0.53
2:AA:146:G:N1	2:AA:147:U:C2	2.77	0.53
2:AA:1555:G:O5'	2:AA:1555:G:C8	2.62	0.53
2:AA:1558:A:O2'	2:AA:1559:G:N7	2.36	0.53
2:AA:1657:C:O5'	2:AA:1657:C:H6	1.92	0.53
2:AA:1695:G:N3	2:AA:1696:G:O4'	2.42	0.53
2:AA:152:G:N2	2:AA:176:G:C5	2.66	0.53
2:AA:1777:U:O2'	2:AA:1778:U:H5'	2.09	0.53
2:AA:1918:A:C3'	2:AA:1918:A:P	2.95	0.53
2:AA:1944:U:C1'	2:AA:1955:U:C1'	2.87	0.53
2:AA:2015:A:C6	29:A5:6:VAL:HG21	2.43	0.53
2:AA:2055:C:C2'	2:AA:2055:C:O2	2.54	0.53
2:AA:2072:G:O6	2:AA:2073:C:N4	2.42	0.53
2:AA:2076:U:C6	2:AA:2076:U:H3'	2.45	0.53
2:AA:2115:G:O2'	3:AC:126:LYS:CD	2.37	0.53
2:AA:2123:G:OP2	2:AA:2124:G:OP2	2.26	0.53
2:AA:2141:G:N1	2:AA:2151:G:C5	2.76	0.53
2:AA:2147:G:C2'	2:AA:2148:G:C8	2.90	0.53
2:AA:215:G:H4'	2:AA:216:A:C5'	2.36	0.53
2:AA:2243:U:O2	2:AA:2244:U:C1'	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:237:C:C2	2:AA:260:G:N2	2.73	0.53
2:AA:244:A:N3	2:AA:244:A:H2'	2.23	0.53
2:AA:2521:C:C2'	2:AA:2522:U:O5'	2.57	0.53
2:AA:2602:A:H3'	2:AA:2602:A:OP1	2.09	0.53
2:AA:2654:A:O2'	2:AA:2655:G:C4'	2.57	0.53
2:AA:2686:G:C2'	2:AA:2687:U:O4'	2.57	0.53
2:AA:2792:G:H1	2:AA:2803:C:H42	1.57	0.53
2:AA:311:A:N6	2:AA:328:U:O2	2.42	0.53
2:AA:319:C:C2'	2:AA:320:A:H8	2.21	0.53
2:AA:410:G:C2'	2:AA:411:G:OP2	2.56	0.53
2:AA:428:A:H3'	2:AA:429:A:C8	2.43	0.53
2:AA:262:A:H2	2:AA:430:G:H1'	1.73	0.53
2:AA:487:C:N4	2:AA:488:G:C6	2.76	0.53
2:AA:599:G:H2'	2:AA:600:G:C8	2.44	0.53
2:AA:627:A:C2	2:AA:637:A:N3	2.77	0.53
2:AA:636:G:O6	14:AO:107:LYS:HD3	2.09	0.53
2:AA:722:A:C2	2:AA:723:G:C8	2.97	0.53
2:AA:723:G:H2'	2:AA:724:U:C6	2.40	0.53
2:AA:764:A:H5'	2:AA:765:G:OP2	2.09	0.53
2:AA:864:G:C2'	2:AA:865:C:H1'	2.38	0.53
2:AA:922:U:H2'	2:AA:923:C:C6	2.43	0.53
2:AA:962:G:C2'	2:AA:963:U:O4'	2.57	0.53
1:AB:5:C:C4	1:AB:6:C:N4	2.76	0.53
1:AB:75:G:H2'	1:AB:76:G:O4'	2.08	0.53
1:AB:85:G:C2	1:AB:86:G:C8	2.97	0.53
2:AA:2115:G:C4'	3:AC:126:LYS:HE2	2.27	0.53
3:AC:29:VAL:CG1	3:AC:30:LYS:N	2.71	0.53
3:AC:59:ARG:C	3:AC:199:HIS:HE2	2.12	0.53
4:AD:133:ASN:O	4:AD:134:ILE:HG13	2.08	0.53
4:AD:141:HIS:HE1	4:AD:192:GLY:N	2.07	0.53
4:AD:157:ALA:O	4:AD:158:GLY:O	2.26	0.53
4:AD:142:ASN:CG	4:AD:190:THR:OG1	2.48	0.53
4:AD:85:ASN:OD1	4:AD:86:ARG:CZ	2.57	0.53
7:AG:56:ARG:CG	7:AG:65:GLU:HG3	2.38	0.53
7:AG:76:ARG:HB3	7:AG:77:ASP:OD1	2.09	0.53
8:AH:10:ILE:O	8:AH:10:ILE:HG22	2.09	0.53
8:AH:24:THR:HG22	8:AH:33:THR:HG22	1.91	0.53
8:AH:96:SER:HA	8:AH:124:VAL:HG21	1.91	0.53
10:AK:35:LEU:O	10:AK:36:ALA:HB2	2.09	0.53
10:AK:47:LEU:HD13	10:AK:51:LYS:HZ1	1.71	0.53
11:AL:104:GLN:O	11:AL:107:GLU:OE2	2.25	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:37:ALA:HA	12:AM:102:ARG:O	2.09	0.53
13:AN:24:VAL:HG21	13:AN:32:TYR:N	2.23	0.53
16:AQ:27:LEU:C	16:AQ:27:LEU:CD1	2.78	0.53
18:AS:84:ARG:CA	18:AS:84:ARG:NE	2.59	0.53
19:AT:55:GLN:CG	19:AT:56:ASN:N	2.70	0.53
20:AU:28:SER:HB3	20:AU:99:THR:CB	2.39	0.53
22:AW:51:LYS:HB3	22:AW:55:ARG:NE	2.21	0.53
36:B1:59:A:O4'	36:B1:59:A:P	2.67	0.53
36:B1:61:U:O2	36:B1:61:U:H2'	2.09	0.53
34:BA:988:G:H22	34:BA:1016:A:H1'	1.72	0.53
34:BA:1098:C:O2	34:BA:1099:G:O4'	2.27	0.53
34:BA:1095:U:OP1	34:BA:1108:G:N2	2.42	0.53
34:BA:1156:G:H1'	34:BA:1179:A:N6	2.18	0.53
34:BA:1157:A:C2	34:BA:1180:A:C4	2.97	0.53
34:BA:1256:A:H2	34:BA:1258:G:C2	2.26	0.53
34:BA:1271:G:OP1	34:BA:1314:C:C5'	2.50	0.53
34:BA:1290:G:C6	34:BA:1291:G:C8	2.97	0.53
34:BA:1433:A:O2'	34:BA:1434:A:H5'	2.08	0.53
34:BA:220:G:HO2'	34:BA:221:C:H5'	1.71	0.53
34:BA:290:C:C2	34:BA:291:C:H6	2.26	0.53
34:BA:309:G:O2'	34:BA:310:G:O4'	2.25	0.53
34:BA:382:A:H2'	34:BA:383:A:C8	2.44	0.53
34:BA:382:A:O2'	34:BA:383:A:H5'	2.09	0.53
34:BA:458:C:C2	34:BA:475:G:C2	2.97	0.53
34:BA:47:C:O2'	34:BA:48:C:P	2.67	0.53
34:BA:553:A:O2'	34:BA:554:C:O4'	2.19	0.53
34:BA:302:G:H2'	34:BA:556:C:H5''	1.91	0.53
34:BA:657:G:C2	34:BA:750:G:C5	2.97	0.53
34:BA:719:C:H2'	53:BU:50:ILE:HB	1.91	0.53
34:BA:750:G:H21	50:BR:23:GLY:C	2.11	0.53
34:BA:830:G:N1	34:BA:857:C:C2	2.77	0.53
34:BA:862:C:N4	34:BA:863:U:O4	2.42	0.53
35:BB:15:G:P	35:BB:15:G:H8	2.30	0.53
35:BB:53:G:N1	35:BB:54:U:C4	2.77	0.53
35:BB:58:A:C6	35:BB:61:C:C2	2.97	0.53
35:BC:19:G:O3'	35:BC:20:G:C8	2.62	0.53
35:BC:44:A:H61	35:BC:45:G:H21	1.52	0.53
37:BE:24:TRP:CE3	37:BE:32:ILE:HD12	2.44	0.53
38:BF:52:LEU:CA	38:BF:70:VAL:HG13	2.39	0.53
38:BF:88:ARG:O	38:BF:91:LEU:HD13	2.09	0.53
40:BH:107:ARG:HG2	40:BH:111:GLU:OE2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BH:99:GLY:HA2	40:BH:116:THR:O	2.08	0.53
34:BA:598:U:H4'	43:BK:94:TYR:HB2	1.90	0.53
44:BL:112:LYS:C	44:BL:113:LYS:HD2	2.28	0.53
44:BL:56:LEU:C	44:BL:58:ARG:H	2.12	0.53
45:BM:38:ILE:O	45:BM:40:LEU:HG	2.09	0.53
45:BM:57:LYS:O	45:BM:57:LYS:HG2	2.09	0.53
48:BP:11:ARG:HH11	48:BP:11:ARG:CG	2.11	0.53
34:BA:657:G:N2	50:BR:22:THR:OG1	2.42	0.53
50:BR:75:PRO:O	50:BR:78:TYR:HB3	2.08	0.53
55:BW:55:ILE:C	55:BW:57:ARG:N	2.61	0.53
55:BW:65:LYS:O	55:BW:68:LYS:CB	2.57	0.53
35:BB:27:C:H42	35:BB:43:G:H1	1.55	0.53
35:BB:41:U:N3	35:BB:42:G:C8	2.77	0.53
35:BB:23:A:C2	35:BB:24:G:C6	2.97	0.53
4:AD:123:ILE:O	4:AD:123:ILE:CG2	2.56	0.53
47:BO:16:GLU:HG2	47:BO:17:LYS:O	2.08	0.53
24:A0:54:LEU:O	24:A0:57:ARG:HB2	2.10	0.52
25:A1:111:ASP:O	25:A1:112:ALA:C	2.47	0.52
25:A1:22:LYS:N	25:A1:24:PHE:HE2	2.07	0.52
25:A1:95:LEU:C	25:A1:106:PHE:HE1	2.13	0.52
25:A1:98:ILE:CD1	25:A1:98:ILE:N	2.71	0.52
27:A3:48:GLY:O	27:A3:54:GLY:O	2.26	0.52
27:A3:27:GLY:CA	27:A3:60:PHE:CE2	2.92	0.52
30:A6:36:GLU:CA	30:A6:52:GLU:OE1	2.57	0.52
31:A7:25:LYS:N	31:A7:25:LYS:CE	2.72	0.52
32:A8:30:ARG:H	32:A8:34:THR:HG21	1.74	0.52
33:A9:19:ARG:CD	33:A9:24:LEU:HD12	2.37	0.52
2:AA:1028:A:C2	2:AA:1029:A:N7	2.77	0.52
2:AA:1156:A:C2	25:A1:51:ARG:NE	2.77	0.52
2:AA:1171:G:O4'	2:AA:1171:G:P	2.66	0.52
2:AA:1289:C:H2'	2:AA:1290:C:O5'	2.08	0.52
2:AA:1346:G:C4	2:AA:1347:G:N7	2.77	0.52
2:AA:1444:G:H3'	2:AA:1445:C:C5	2.44	0.52
2:AA:1525:G:C5	2:AA:1526:G:C5	2.97	0.52
2:AA:1568:G:C5'	4:AD:60:GLN:CG	2.80	0.52
2:AA:1580:A:C2	2:AA:1581:G:C2	2.97	0.52
2:AA:1650:G:N2	2:AA:1651:G:C1'	2.73	0.52
2:AA:1741:C:H2'	2:AA:1742:C:C5'	2.37	0.52
2:AA:1796:U:C2	2:AA:1797:C:C4	2.96	0.52
2:AA:1825:A:C6	2:AA:1826:G:O6	2.62	0.52
2:AA:1650:G:C6	2:AA:2008:C:C4	2.97	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2013:A:C2'	2:AA:2014:A:C5'	2.86	0.52
2:AA:2053:G:C1'	5:AE:245:ARG:HG2	2.39	0.52
2:AA:2069:G:O2'	2:AA:2070:G:H5'	2.08	0.52
2:AA:1854:A:H1'	2:AA:2087:G:N2	2.24	0.52
2:AA:2127:G:N7	2:AA:2174:C:C5	2.77	0.52
2:AA:2213:U:H3'	2:AA:2213:U:C2	2.44	0.52
2:AA:2305:A:H8	2:AA:2306:C:H5''	1.72	0.52
2:AA:2396:G:OP1	28:A4:28:ARG:CZ	2.58	0.52
2:AA:945:A:C6	2:AA:2448:A:C2	2.96	0.52
2:AA:2484:G:C2	2:AA:2485:G:C1'	2.93	0.52
2:AA:2485:G:C2'	2:AA:2486:G:H5'	2.39	0.52
2:AA:2515:C:H2'	2:AA:2515:C:O2	2.08	0.52
2:AA:2532:G:C6	2:AA:2533:A:C6	2.97	0.52
2:AA:2520:C:C5	2:AA:2567:G:C4	2.96	0.52
2:AA:2704:C:C2'	2:AA:2705:A:O4'	2.55	0.52
2:AA:2706:G:N2	2:AA:2707:G:C4	2.77	0.52
2:AA:273(F):C:O2	2:AA:363(A):A:C6	2.61	0.52
2:AA:2743:C:C2'	2:AA:2744:G:O5'	2.57	0.52
2:AA:2807:G:O6	2:AA:2892:A:C8	2.62	0.52
2:AA:360:G:OP2	2:AA:360:G:H3'	2.08	0.52
2:AA:458:G:H2'	2:AA:469:G:H1	1.74	0.52
2:AA:492:A:C2'	2:AA:493:G:C5'	2.87	0.52
2:AA:501:A:C5	2:AA:502:A:N6	2.77	0.52
2:AA:506:G:H2'	2:AA:507:A:OP2	2.09	0.52
2:AA:628:G:P	2:AA:628:G:H8	2.32	0.52
2:AA:658:C:O2'	6:AF:103:ASN:ND2	2.42	0.52
2:AA:687:C:O2'	2:AA:1780:A:N6	2.40	0.52
2:AA:706:A:H8	2:AA:706:A:O5'	1.91	0.52
2:AA:707:G:H1	2:AA:724:U:H3	1.49	0.52
2:AA:72:U:C2'	2:AA:73:A:OP1	2.57	0.52
2:AA:819:A:H3'	2:AA:819:A:C8	2.43	0.52
2:AA:874:G:OP1	21:AV:172:LEU:HD11	2.09	0.52
2:AA:879:G:N2	2:AA:880:G:C1'	2.72	0.52
2:AA:936:C:O2'	2:AA:937:U:O5'	2.26	0.52
1:AB:27:C:C4	1:AB:28:C:C4	2.96	0.52
1:AB:69:G:C5'	1:AB:70:C:OP2	2.45	0.52
3:AC:29:VAL:HG13	3:AC:30:LYS:N	2.24	0.52
4:AD:74:PRO:HA	4:AD:116:MET:HE2	1.89	0.52
5:AE:256:THR:CB	5:AE:259:HIS:CE1	2.91	0.52
5:AE:79:ARG:NH1	5:AE:104:PHE:C	2.63	0.52
6:AF:24:THR:HB	6:AF:25:PRO:HD2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:56:ARG:HA	7:AG:63:ILE:HA	1.91	0.52
8:AH:84:LYS:HE3	8:AH:141:GLY:HA3	1.90	0.52
9:AJ:13:LEU:HD23	9:AJ:17:GLU:CD	2.29	0.52
11:AL:105:ILE:HG22	11:AL:106:GLU:N	2.22	0.52
11:AL:8:GLN:O	11:AL:9:ILE:HG13	2.09	0.52
13:AN:9:LYS:O	13:AN:83:ALA:CB	2.54	0.52
14:AO:119:THR:HG22	14:AO:138:GLY:C	2.29	0.52
16:AQ:38:LYS:HZ2	16:AQ:114:LYS:CB	2.21	0.52
18:AS:66:GLU:CG	18:AS:67:ASP:N	2.70	0.52
21:AV:98:VAL:CG2	21:AV:134:LEU:HB3	2.39	0.52
21:AV:123:VAL:CG1	21:AV:161:ALA:H	2.21	0.52
21:AV:37:LYS:HD2	21:AV:41:ARG:HH12	1.74	0.52
21:AV:90:GLU:N	21:AV:91:PRO:CD	2.72	0.52
23:AX:27:GLY:C	23:AX:28:LEU:CG	2.74	0.52
34:BA:1117:G:N3	34:BA:1184:G:C2	2.77	0.52
34:BA:1163:C:H42	34:BA:1173:G:H1	0.70	0.52
34:BA:1202:G:H1'	49:BQ:42:ILE:HD13	1.90	0.52
34:BA:1330:U:H3'	34:BA:1331:G:C8	2.44	0.52
34:BA:939:G:N1	34:BA:1344:C:N4	2.22	0.52
34:BA:1418:A:C2	34:BA:1483:A:C2	2.97	0.52
34:BA:154:C:O2'	34:BA:155:C:H5'	2.09	0.52
34:BA:165:C:H2'	34:BA:166:G:H8	1.74	0.52
34:BA:190(F):G:C4'	34:BA:190(G):G:OP2	2.42	0.52
34:BA:19:C:O4'	34:BA:864:A:H1'	2.09	0.52
34:BA:255:G:C2	34:BA:256:U:C5	2.97	0.52
34:BA:328:C:O2	34:BA:328:C:H3'	2.08	0.52
34:BA:509:A:O2'	34:BA:510:A:C5'	2.57	0.52
34:BA:585:G:O2'	34:BA:879:C:H5''	2.08	0.52
34:BA:598:U:O2	34:BA:599:C:C6	2.61	0.52
34:BA:667:G:H4'	50:BR:51:HIS:CG	2.44	0.52
34:BA:682:G:C6	34:BA:709:G:C6	2.96	0.52
34:BA:809:G:N2	34:BA:810:C:C1'	2.72	0.52
34:BA:80:G:C3'	34:BA:81:U:C5'	2.87	0.52
34:BA:821:G:O2'	34:BA:822:C:H5'	2.08	0.52
34:BA:855:G:H2'	34:BA:856:C:O5'	2.09	0.52
34:BA:867:G:H2'	34:BA:868:C:C6	2.44	0.52
35:BB:47:U:H2'	35:BB:48:C:H5'	1.91	0.52
35:BC:50:U:C2	35:BC:65:G:N2	2.77	0.52
35:BC:55:U:O2'	35:BC:57:G:N7	2.40	0.52
37:BE:223:ILE:HA	37:BE:226:ARG:HB2	1.91	0.52
38:BF:182:ILE:CD1	38:BF:203:PHE:HD1	2.21	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BG:120:LEU:HG	39:BG:125:HIS:HD2	1.67	0.52
40:BH:71:LEU:HD11	40:BH:114:GLY:O	2.10	0.52
41:BI:97:PHE:N	53:BU:32:ARG:HG3	2.24	0.52
34:BA:1366:C:P	44:BL:117:HIS:HE2	2.32	0.52
45:BM:36:GLY:O	45:BM:72:VAL:HA	2.09	0.52
45:BM:48:THR:HG22	45:BM:49:VAL:N	2.23	0.52
50:BR:28:GLN:O	50:BR:31:LEU:HB2	2.09	0.52
52:BT:97:SER:CB	52:BT:103:GLY:CA	2.88	0.52
34:BA:280:C:C1'	52:BT:38:ARG:CZ	2.87	0.52
55:BW:73:HIS:HD2	55:BW:74:LYS:HE2	1.74	0.52
2:AA:55:G:C2	2:AA:56:A:C8	2.97	0.52
25:A1:37:GLN:C	25:A1:39:LEU:N	2.61	0.52
25:A1:62:ILE:O	25:A1:66:ASN:OD1	2.27	0.52
25:A1:65:ILE:HG22	25:A1:76:TYR:CE2	2.44	0.52
26:A2:36:LYS:CA	26:A2:60:VAL:HG22	2.40	0.52
26:A2:87:ARG:NH1	26:A2:87:ARG:HB3	2.19	0.52
27:A3:24:LYS:HD3	27:A3:56:ASP:OD2	2.09	0.52
27:A3:25:LYS:NZ	27:A3:57:HIS:ND1	2.56	0.52
28:A4:43:TRP:CB	28:A4:56:VAL:O	2.57	0.52
30:A6:42:PRO:HD3	30:A6:50:PHE:CZ	2.44	0.52
32:A8:6:THR:O	32:A8:8:LYS:N	2.42	0.52
2:AA:1095:A:C8	2:AA:1096:A:H8	2.26	0.52
2:AA:1265:A:C8	2:AA:1267:U:O4	2.63	0.52
2:AA:1301:A:N6	2:AA:1303:G:C4	2.73	0.52
2:AA:1304:C:N3	2:AA:1624:G:N2	2.45	0.52
2:AA:1345:C:C2	2:AA:1346:G:C8	2.97	0.52
2:AA:1357:U:C4	2:AA:1358:G:C5	2.97	0.52
2:AA:1444:G:H3'	2:AA:1445:C:H5	1.73	0.52
2:AA:1499:C:C2'	2:AA:1500:G:O5'	2.58	0.52
2:AA:1630:G:O5'	2:AA:1630:G:H8	1.92	0.52
2:AA:1797:C:C3'	2:AA:1797:C:C6	2.93	0.52
2:AA:1805:U:N3	2:AA:1813:G:N2	2.56	0.52
2:AA:1819:A:O2'	2:AA:1820:U:P	2.68	0.52
2:AA:1679:U:O2'	2:AA:1990:C:H4'	2.08	0.52
2:AA:2101:G:H2'	2:AA:2102:U:O4'	2.09	0.52
2:AA:2147:G:C4	2:AA:2148:G:N7	2.77	0.52
2:AA:2236:C:N4	2:AA:2237:G:C2	2.77	0.52
2:AA:2348:U:C2	2:AA:2349:G:C8	2.97	0.52
2:AA:2361:A:H2'	2:AA:2362:G:O4'	2.09	0.52
2:AA:2465:C:O3'	33:A9:5:SER:OG	2.24	0.52
2:AA:2468:G:HO2'	2:AA:2469:A:H5'	1.70	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2470:G:N2	2:AA:2471:C:C2	2.77	0.52
2:AA:2476:A:H2'	2:AA:2477:C:H5'	1.91	0.52
2:AA:2511:U:O2	5:AE:236:GLY:HA3	2.10	0.52
2:AA:252:G:N2	2:AA:253:C:N1	2.57	0.52
2:AA:2631:G:C1'	2:AA:2892:A:H1'	2.38	0.52
2:AA:2646:C:H2'	2:AA:2647:U:O4'	2.08	0.52
2:AA:2707:G:C2'	2:AA:2708:G:O5'	2.57	0.52
2:AA:270(I):G:N1	2:AA:270(Q):C:N4	2.30	0.52
2:AA:2799:A:O2'	2:AA:2802:G:C4	2.60	0.52
2:AA:2821:A:H2'	2:AA:2822:G:C8	2.44	0.52
2:AA:2831:G:H1'	2:AA:2883:A:C2	2.43	0.52
2:AA:311:A:C6	2:AA:328:U:N3	2.74	0.52
2:AA:329:G:H5'	2:AA:330:A:OP 2	2.08	0.52
2:AA:287:C:N3	2:AA:353:G:C6	2.77	0.52
2:AA:383:U:C2	2:AA:385:C:N4	2.77	0.52
2:AA:422:A:O2'	2:AA:423:A:P	2.67	0.52
2:AA:216:A:N6	2:AA:432:A:C8	2.77	0.52
2:AA:576:U:H2'	2:AA:577:G:H8	1.74	0.52
2:AA:775:G:C5'	2:AA:777:A:C1'	2.69	0.52
2:AA:783:A:N6	2:AA:785:G:C8	2.77	0.52
2:AA:873:G:C2	2:AA:874:G:H1'	2.44	0.52
2:AA:909:A:C2	2:AA:912:C:C1'	2.93	0.52
2:AA:965:C:H1'	2:AA:2273:A:C2	2.44	0.52
1:AB:18:G:O5'	7:AG:149:ARG:NE	2.43	0.52
2:AA:1818:U:C4	4:AD:155:ARG:NH1	2.77	0.52
4:AD:172:ILE:HG22	4:AD:172:ILE:O	2.07	0.52
4:AD:85:ASN:HB2	4:AD:86:ARG:NE	2.23	0.52
2:AA:2579:C:C4'	5:AE:231:TRP:HH2	2.21	0.52
5:AE:205:THR:HG21	5:AE:259:HIS:N	2.25	0.52
2:AA:2785:C:C4'	5:AE:99:VAL:HG22	2.39	0.52
6:AF:233:THR:OG1	6:AF:234:VAL:N	2.41	0.52
6:AF:39:GLN:N	6:AF:39:GLN:CD	2.63	0.52
9:AJ:115:LYS:HZ1	9:AJ:127:LEU:HD13	1.74	0.52
9:AJ:25:LEU:O	9:AJ:28:LYS:HB2	2.10	0.52
10:AK:6:LEU:O	10:AK:14:LYS:HE2	2.09	0.52
13:AN:1:MET:O	13:AN:33:ALA:O	2.28	0.52
15:AP:41:THR:O	15:AP:125:TRP:CZ3	2.58	0.52
15:AP:11:LYS:NZ	15:AP:55:GLN:CG	2.71	0.52
16:AQ:120:GLU:HA	16:AQ:123:ILE:CB	2.39	0.52
18:AS:45:TYR:HD2	18:AS:46:PHE:HD1	1.57	0.52
21:AV:141:MET:HA	21:AV:171:VAL:HG11	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1025:U:C2'	34:BA:1026:G:C8	2.91	0.52
34:BA:1067:A:H2	34:BA:1068:G:C4	2.27	0.52
34:BA:1074:G:C4	34:BA:1075:C:C6	2.97	0.52
34:BA:1127:G:H21	34:BA:1146:A:H62	1.55	0.52
34:BA:964:A:C5'	34:BA:1199:U:OP1	2.58	0.52
34:BA:954:G:N2	34:BA:1228:C:C5	2.77	0.52
34:BA:1505:G:C4'	34:BA:1506:U:O5'	2.56	0.52
34:BA:155:C:H2'	34:BA:156:G:C8	2.43	0.52
34:BA:317:G:H2'	34:BA:318:G:O5'	2.10	0.52
34:BA:360:A:C2'	34:BA:361:G:H5'	2.40	0.52
34:BA:380:G:N1	34:BA:384:G:C6	2.77	0.52
34:BA:414:A:C2'	34:BA:415:A:H8	2.19	0.52
34:BA:415:A:C2	34:BA:416:G:H1'	2.44	0.52
34:BA:42:G:C6	34:BA:43:C:C4	2.97	0.52
34:BA:445:G:O2'	34:BA:446:G:C5'	2.57	0.52
34:BA:499:A:H1'	34:BA:500:G:O4'	2.09	0.52
34:BA:499:A:O2'	34:BA:500:G:O5'	2.27	0.52
34:BA:673:G:C4	34:BA:734:G:C2	2.98	0.52
34:BA:706:A:N3	34:BA:707:C:C6	2.77	0.52
34:BA:740:U:O2'	34:BA:741:G:C5'	2.57	0.52
34:BA:781:A:HO2'	34:BA:782:A:P	2.33	0.52
34:BA:838:G:H2'	34:BA:839:U:H5''	1.91	0.52
35:BB:19:G:O3'	35:BB:20:G:N9	2.42	0.52
35:BC:36:A:N3	35:BC:36:A:H2'	2.24	0.52
35:BC:30:G:N2	35:BC:41:U:C6	2.77	0.52
35:BC:70:C:O2'	35:BC:71:G:H5'	2.10	0.52
37:BE:201:ILE:HD13	37:BE:201:ILE:N	2.23	0.52
37:BE:48:MET:O	37:BE:49:GLU:C	2.47	0.52
38:BF:121:ALA:O	38:BF:124:ILE:CB	2.55	0.52
38:BF:138:VAL:HG13	38:BF:149:ALA:HB3	1.92	0.52
39:BG:159:ARG:O	39:BG:160:GLN:C	2.46	0.52
39:BG:173:TRP:C	39:BG:186:LEU:HD12	2.29	0.52
39:BG:4:TYR:CD2	39:BG:5:ILE:N	2.77	0.52
39:BG:71:SER:O	39:BG:75:PHE:HB3	2.10	0.52
40:BH:33:VAL:HG21	40:BH:108:ALA:CB	2.39	0.52
40:BH:57:LYS:HG2	40:BH:61:TYR:CE2	2.38	0.52
40:BH:91:LEU:CD2	40:BH:91:LEU:C	2.76	0.52
41:BI:49:ALA:HB3	53:BU:79:LEU:N	2.25	0.52
41:BI:53:ALA:O	41:BI:55:ASP:N	2.42	0.52
41:BI:5:GLU:HB3	41:BI:62:TRP:NE1	2.22	0.52
42:BJ:143:ARG:O	42:BJ:144:MET:C	2.48	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BJ:45:ASP:O	42:BJ:49:ILE:HD12	2.09	0.52
44:BL:110:GLU:O	44:BL:111:ARG:HB2	2.10	0.52
45:BM:31:GLY:HA2	45:BM:76:ASN:O	2.09	0.52
10:AK:130:PRO:HA	10:AK:140:THR:HG23	1.90	0.52
35:BB:21:A:H8	35:BB:21:A:H3'	1.75	0.52
15:AP:53:PRO:O	15:AP:53:PRO:HG2	2.10	0.52
24:A0:34:ILE:O	24:A0:113:LEU:HA	2.10	0.52
24:A0:37:THR:O	24:A0:38:VAL:C	2.48	0.52
26:A2:80:TYR:O	26:A2:82:ARG:N	2.43	0.52
27:A3:46:LYS:NZ	27:A3:60:PHE:O	2.38	0.52
27:A3:68:VAL:HG21	27:A3:72:LYS:CD	2.39	0.52
27:A3:37:LEU:HB2	27:A3:69:PHE:N	2.23	0.52
28:A4:17:GLN:O	28:A4:19:GLN:NE2	2.42	0.52
2:AA:1013:C:O2'	2:AA:1014:U:H5'	2.10	0.52
2:AA:1031:G:C6	2:AA:1032:A:C6	2.98	0.52
2:AA:110:G:O6	2:AA:111:A:N6	2.43	0.52
2:AA:1120:G:H2'	2:AA:1121:C:H6	1.74	0.52
2:AA:1208:C:C4	2:AA:1240:U:O4	2.63	0.52
2:AA:1336:A:O2'	2:AA:1337:G:H5'	2.09	0.52
2:AA:1376:C:O2	2:AA:1376:C:C2'	2.55	0.52
2:AA:142:G:H2'	2:AA:143:C:OP1	2.08	0.52
2:AA:1515:C:P	2:AA:1515:C:O4'	2.68	0.52
2:AA:1543:A:C3'	2:AA:1544:C:C6	2.78	0.52
2:AA:161:U:H6	2:AA:161:U:P	2.32	0.52
2:AA:1742:C:N3	2:AA:1743:G:N7	2.57	0.52
2:AA:1805:U:C4	2:AA:1813:G:N2	2.77	0.52
2:AA:1838:C:C5	2:AA:1899:G:C6	2.97	0.52
2:AA:1855:G:C6	2:AA:1856:G:N7	2.77	0.52
2:AA:1894:C:O2	2:AA:1895:C:C6	2.63	0.52
2:AA:1910:G:N2	2:AA:1921:G:H1'	2.24	0.52
2:AA:1934:C:O4'	2:AA:1974:C:H4'	2.10	0.52
2:AA:1982:C:C2	2:AA:1983:C:C5	2.97	0.52
2:AA:570:G:C6	2:AA:2030:A:C2	2.97	0.52
2:AA:2085:C:H2'	2:AA:2086:U:O5'	2.09	0.52
2:AA:2112:G:O2'	2:AA:2116:G:H8	1.91	0.52
2:AA:2213:U:H4'	2:AA:2215:G:N7	2.25	0.52
2:AA:2306:C:C6	2:AA:2306:C:H3'	2.44	0.52
2:AA:2321:G:H21	2:AA:2322:A:C1'	2.15	0.52
2:AA:2346:A:H2'	2:AA:2347:C:OP1	2.10	0.52
2:AA:2481:G:C2'	2:AA:2482:G:OP2	2.57	0.52
2:AA:2488:A:C2'	2:AA:2489:G:O5'	2.56	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2489:G:H2'	2:AA:2490:G:O4'	2.09	0.52
2:AA:1954:G:C2	2:AA:2551:C:H5''	2.45	0.52
2:AA:2582:G:H2'	2:AA:2583:G:H5'	1.90	0.52
2:AA:2611:U:HO2'	2:AA:2612:C:P	2.32	0.52
2:AA:2694:G:N1	2:AA:2695:C:C4	2.78	0.52
2:AA:2714:G:H2'	2:AA:2715:C:C5'	2.39	0.52
2:AA:2838:G:C6	2:AA:2839:G:C5	2.97	0.52
2:AA:2853:C:H2'	2:AA:2854:G:O4'	2.08	0.52
2:AA:2866:U:O2'	2:AA:2867:G:P	2.68	0.52
2:AA:363(B):G:H2'	2:AA:363(C):G:C8	2.44	0.52
2:AA:399:G:C3'	2:AA:400:G:H5'	2.39	0.52
2:AA:467:G:O2'	2:AA:468:G:H5'	2.08	0.52
2:AA:917:A:C2	2:AA:918:A:C4	2.96	0.52
2:AA:943:U:H5''	2:AA:944:G:O6	2.09	0.52
2:AA:979:G:H3'	2:AA:979:G:H8	1.67	0.52
2:AA:993:G:C1'	2:AA:1162:G:H22	2.21	0.52
2:AA:993:G:O6	2:AA:1160:G:O6	2.26	0.52
1:AB:85:G:C4	1:AB:92:G:N2	2.76	0.52
3:AC:171:ILE:HG12	3:AC:172:HIS:N	2.24	0.52
3:AC:79:LYS:CB	3:AC:79:LYS:NZ	2.72	0.52
4:AD:130:PRO:CB	4:AD:186:LYS:O	2.58	0.52
4:AD:158:GLY:H	4:AD:196:ASN:HD21	1.55	0.52
2:AA:2822:G:C5'	5:AE:258:TYR:OH	2.45	0.52
6:AF:241:ALA:O	6:AF:244:ALA:N	2.42	0.52
6:AF:36:ARG:O	6:AF:39:GLN:OE1	2.27	0.52
7:AG:146:LYS:O	7:AG:148:SER:N	2.42	0.52
7:AG:51:ARG:HH22	7:AG:74:THR:HG21	1.73	0.52
8:AH:90:GLY:HA2	8:AH:159:LYS:HG3	1.92	0.52
8:AH:21:ASN:CB	8:AH:38:PRO:HB3	2.40	0.52
9:AI:99:ASP:O	9:AI:101:VAL:N	2.41	0.52
11:AL:8:GLN:C	11:AL:9:ILE:HG13	2.29	0.52
12:AM:140:GLY:O	12:AM:141:ALA:C	2.46	0.52
2:AA:2334:G:N1	16:AQ:10:MET:CE	2.64	0.52
18:AS:12:ILE:HG23	18:AS:13:SER:H	1.75	0.52
19:AT:56:ASN:OD1	19:AT:62:LYS:NZ	2.42	0.52
20:AU:61:GLU:HB2	20:AU:75:GLU:CD	2.29	0.52
21:AV:150:GLY:O	21:AV:152:ILE:N	2.43	0.52
21:AV:75:LYS:CD	21:AV:77:ALA:HB3	2.39	0.52
23:AX:23:LEU:HD22	23:AX:53:LEU:CD1	2.40	0.52
34:BA:1006:C:N4	34:BA:1024:G:N2	2.53	0.52
34:BA:1241:G:O2'	34:BA:1242:C:H5'	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1272:G:H2'	34:BA:1273:G:O4'	2.09	0.52
34:BA:1285:A:O2'	34:BA:1286:A:P	2.67	0.52
34:BA:1290:G:N1	34:BA:1291:G:C8	2.77	0.52
34:BA:1316:G:O6	54:BV:6:LYS:CE	2.52	0.52
34:BA:945:G:N2	34:BA:1337:G:C2	2.77	0.52
34:BA:1404:C:C2	34:BA:1405:G:N7	2.78	0.52
34:BA:1497:G:H2'	34:BA:1498:U:C5	2.44	0.52
34:BA:1503:A:O2'	34:BA:1507:A:H4'	2.10	0.52
34:BA:190:C:O5'	34:BA:190:C:H6	1.91	0.52
34:BA:190(K):G:H2'	34:BA:190(L):U:C6	2.43	0.52
34:BA:226:G:N2	34:BA:227:G:H1'	2.24	0.52
34:BA:261:U:H3'	34:BA:263:A:OP2	2.09	0.52
34:BA:267:C:H2'	34:BA:268:C:H6	1.73	0.52
34:BA:271:C:C2'	34:BA:272:C:O5'	2.57	0.52
34:BA:306:G:H2'	34:BA:307:C:C5	2.44	0.52
34:BA:330:C:H2'	34:BA:331:G:O5'	2.09	0.52
34:BA:376:G:C2	34:BA:377:G:C8	2.97	0.52
34:BA:59:A:C1'	34:BA:388:G:H5''	2.39	0.52
34:BA:44:G:C5	34:BA:399:G:N1	2.78	0.52
34:BA:686:U:H4'	34:BA:686:U:OP1	2.09	0.52
34:BA:859:A:O2'	34:BA:860:A:C5'	2.56	0.52
34:BA:934:C:N4	34:BA:939:G:N2	2.57	0.52
34:BA:973:G:C3'	34:BA:974:A:H5''	2.38	0.52
35:BB:33:U:H2'	35:BB:34:G:C8	2.45	0.52
35:BC:63:C:C2'	35:BC:64:A:O5'	2.58	0.52
37:BE:17:PHE:HA	37:BE:42:ILE:CG2	2.36	0.52
37:BE:41:ILE:N	37:BE:41:ILE:HD12	2.25	0.52
37:BE:61:LEU:CA	37:BE:64:ARG:HH11	2.23	0.52
38:BF:28:GLN:O	38:BF:30:ARG:N	2.43	0.52
39:BG:172:PRO:HG3	39:BG:193:ASP:HB3	1.91	0.52
41:BI:31:GLU:O	41:BI:32:ASN:C	2.47	0.52
34:BA:737:A:H5'	41:BI:90:VAL:HG12	1.90	0.52
42:BJ:126:ASP:CA	42:BJ:129:GLU:HB2	2.39	0.52
42:BJ:54:THR:C	42:BJ:56:GLN:N	2.55	0.52
44:BL:97:LYS:HZ3	44:BL:102:LEU:HD11	1.71	0.52
35:BC:31:A:O5'	44:BL:127:LYS:HD2	2.09	0.52
45:BM:65:LEU:HD12	49:BQ:56:VAL:HG22	1.89	0.52
46:BN:12:ARG:CD	46:BN:75:TYR:CD2	2.93	0.52
48:BP:15:VAL:HG21	48:BP:39:ILE:HD12	1.91	0.52
49:BQ:23:ARG:HE	49:BQ:30:ALA:HB2	1.69	0.52
50:BR:83:GLU:OE1	50:BR:83:GLU:O	2.28	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:57:VAL:HG23	52:BT:58:GLU:H	1.74	0.52
54:BV:61:TYR:HD2	54:BV:62:ILE:N	2.07	0.52
34:BA:1234:C:O2'	56:BX:14:TRP:HZ2	1.92	0.52
35:BB:23:A:C2	35:BB:24:G:C5	2.97	0.52
36:B1:25:U:C5	36:B1:27:G:OP2	2.62	0.52
35:BB:21:A:C3'	35:BB:21:A:C8	2.92	0.52
27:A3:2:ALA:C	27:A3:3:HIS:ND1	2.63	0.52
24:A0:60:LEU:HG	24:A0:61:HIS:H	1.73	0.52
25:A1:108:ALA:HA	25:A1:111:ASP:OD1	2.10	0.52
26:A2:20:ILE:HG21	26:A2:67:LYS:CD	2.39	0.52
26:A2:49:GLU:O	26:A2:54:TYR:CZ	2.62	0.52
26:A2:5:ILE:O	26:A2:40:VAL:HG23	2.10	0.52
27:A3:64:ASP:O	27:A3:66:LYS:NZ	2.37	0.52
28:A4:15:ILE:N	28:A4:15:ILE:CD1	2.72	0.52
29:A5:18:MET:O	29:A5:21:SER:N	2.42	0.52
30:A6:42:PRO:CD	30:A6:47:HIS:O	2.55	0.52
2:AA:464:U:OP2	31:A7:5:TYR:HE2	1.91	0.52
2:AA:1026:U:C6	2:AA:1026:U:H3'	2.44	0.52
2:AA:1099:G:H2'	2:AA:1100:C:H6	1.73	0.52
2:AA:1127:A:C2'	2:AA:1128:A:OP2	2.57	0.52
2:AA:1022:G:C5	2:AA:1139:G:N1	2.78	0.52
2:AA:1255:U:C5'	2:AA:1256:G:C5'	2.83	0.52
2:AA:126:A:H4'	31:A7:19:ARG:NE	2.22	0.52
2:AA:1335:U:C2'	2:AA:1336:A:O5'	2.57	0.52
2:AA:138:G:C2	2:AA:139:G:O4'	2.63	0.52
2:AA:137(A):G:O6	2:AA:139:G:C4	2.63	0.52
2:AA:1412:A:H2'	2:AA:1413:G:H8	1.71	0.52
2:AA:1418:G:H3'	2:AA:1418:G:OP2	2.10	0.52
2:AA:1422:G:N2	2:AA:1423:G:C4	2.78	0.52
2:AA:1444:G:C2'	2:AA:1445:C:H5	2.22	0.52
2:AA:1486:A:H2'	2:AA:1487:G:O4'	2.09	0.52
2:AA:1491:G:C8	2:AA:1491:G:OP2	2.63	0.52
2:AA:1525:G:C2	2:AA:1526:G:C4	2.97	0.52
2:AA:1449:A:H5'	2:AA:1528:A:N1	2.24	0.52
2:AA:1624:G:H2'	2:AA:1625:C:C5	2.45	0.52
2:AA:1630:G:C5	2:AA:630(A):C:H5	2.27	0.52
2:AA:1916:A:C8	2:AA:1916:A:OP2	2.62	0.52
2:AA:1928:A:C3'	2:AA:1929:G:H5'	2.38	0.52
2:AA:1931:U:C5	2:AA:1932:A:N7	2.78	0.52
2:AA:2064:C:H5'	2:AA:2065:C:OP2	2.10	0.52
2:AA:2133:G:N3	2:AA:2133:G:C2'	2.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2353:G:C2	2:AA:2364:C:N3	2.76	0.52
2:AA:2327:A:C5	2:AA:2388:A:N1	2.78	0.52
2:AA:945:A:H61	2:AA:2448:A:H2	1.55	0.52
2:AA:2666:C:C2'	2:AA:2667:C:H5'	2.39	0.52
2:AA:266:G:H3'	2:AA:266:G:C8	2.44	0.52
2:AA:2729:G:C6	2:AA:2730:C:C4	2.97	0.52
2:AA:2759:G:O2'	2:AA:2760:C:C5'	2.57	0.52
2:AA:2816:C:H2'	2:AA:2817:G:H5'	1.92	0.52
2:AA:1709:U:O2'	2:AA:2859:G:H1'	2.09	0.52
2:AA:2892:A:C3'	2:AA:2893:G:C8	2.93	0.52
2:AA:7:G:N1	2:AA:2896:C:O2	2.27	0.52
2:AA:318:C:OP2	2:AA:318:C:C5	2.63	0.52
2:AA:322:A:O4'	2:AA:341:G:C5'	2.52	0.52
2:AA:324:A:N3	2:AA:324:A:C2'	2.70	0.52
2:AA:349:G:N1	2:AA:350:U:C5	2.78	0.52
2:AA:273(D):C:C4	2:AA:363(B):G:C2	2.97	0.52
2:AA:469:G:OP2	6:AF:56:THR:HG22	2.09	0.52
2:AA:504:U:O5'	2:AA:504:U:H6	1.92	0.52
2:AA:51:G:C5'	2:AA:52:A:OP1	2.45	0.52
2:AA:848:G:N1	2:AA:849:A:N6	2.56	0.52
2:AA:965:C:O2'	2:AA:966:G:H5'	2.09	0.52
1:AB:17:C:C2'	1:AB:18:G:O4'	2.56	0.52
1:AB:32:C:C2'	1:AB:33:G:C8	2.88	0.52
1:AB:43:C:H1'	7:AG:47:GLN:HG2	1.92	0.52
2:AA:1799:G:C2	4:AD:153:LEU:HD11	2.45	0.52
5:AE:229:GLN:O	5:AE:231:TRP:N	2.42	0.52
5:AE:41:PHE:C	5:AE:311:PHE:CE1	2.83	0.52
5:AE:80:ALA:H	5:AE:185:GLY:C	2.13	0.52
6:AF:32:GLY:O	6:AF:35:VAL:HG23	2.09	0.52
7:AG:54:ALA:O	7:AG:55:LYS:HB2	2.09	0.52
8:AH:23:VAL:HG12	8:AH:25:VAL:HG23	1.91	0.52
11:AL:45:GLU:CD	11:AL:70:ILE:HD12	2.30	0.52
11:AL:12:GLN:NE2	11:AL:74:PRO:HG2	2.23	0.52
14:AO:64:ILE:O	14:AO:107:LYS:O	2.28	0.52
14:AO:72:ASN:O	14:AO:75:LEU:HB2	2.09	0.52
15:AP:142:LYS:C	15:AP:142:LYS:HE3	2.28	0.52
15:AP:26:LYS:CD	15:AP:90:PHE:CE1	2.92	0.52
16:AQ:17:ARG:NH2	16:AQ:106:LEU:HD22	2.24	0.52
16:AQ:66:LEU:CB	16:AQ:69:TYR:OH	2.58	0.52
17:AR:5:GLU:HB3	17:AR:8:TYR:O	2.08	0.52
18:AS:84:ARG:O	18:AS:95:ILE:CA	2.56	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AT:23:LYS:C	19:AT:24:LEU:HG	2.29	0.52
21:AV:34:LEU:O	21:AV:35:ASP:CB	2.45	0.52
21:AV:69:VAL:HG22	21:AV:81:VAL:HG13	1.90	0.52
21:AV:24:TYR:CB	21:AV:83:PHE:O	2.55	0.52
34:BA:1015:A:C6	34:BA:1016:A:C6	2.98	0.52
34:BA:1055:A:N3	38:BF:156:ARG:NH1	2.58	0.52
34:BA:1059:C:C2'	34:BA:1059:C:O2	2.56	0.52
34:BA:110:C:H3'	34:BA:111:G:C8	2.45	0.52
34:BA:1120:G:H1	34:BA:1153:C:N4	2.08	0.52
34:BA:960:U:C2	34:BA:1225:A:C5	2.98	0.52
34:BA:125:U:H2'	34:BA:126:G:H8	1.70	0.52
34:BA:1265:G:O6	34:BA:1266:G:C2	2.62	0.52
34:BA:1373:G:H1'	42:BJ:34:GLY:CA	2.40	0.52
34:BA:1381:U:H2'	34:BA:1381:U:O2	2.09	0.52
34:BA:1401:G:H2'	34:BA:1402:C:C5'	2.39	0.52
2:AA:1701:A:H2	34:BA:1474:G:H4'	1.74	0.52
34:BA:1529:G:C5'	34:BA:1530:G:OP2	2.55	0.52
34:BA:246:A:C6	34:BA:279:A:C5	2.97	0.52
34:BA:319:G:C2'	34:BA:320:C:O5'	2.57	0.52
34:BA:327:A:C6	34:BA:329:A:C5	2.98	0.52
34:BA:597:G:C8	34:BA:597:G:O5'	2.62	0.52
34:BA:694:A:C2	34:BA:695:A:C1'	2.93	0.52
34:BA:828:A:O2'	34:BA:829:G:O5'	2.16	0.52
34:BA:89:C:H2'	34:BA:90:U:C6	2.44	0.52
34:BA:905:U:O4	34:BA:906:G:C2	2.63	0.52
34:BA:920:U:C2	34:BA:921:U:C5	2.97	0.52
37:BE:110:GLN:O	37:BE:113:HIS:HB2	2.09	0.52
37:BE:219:VAL:C	37:BE:222:ILE:HG23	2.29	0.52
41:BI:4:TYR:OH	41:BI:69:GLU:HA	2.09	0.52
42:BJ:94:ARG:HH11	42:BJ:94:ARG:HG3	1.75	0.52
43:BK:104:ARG:NE	43:BK:138:TRP:CZ3	2.77	0.52
44:BL:37:PHE:CA	44:BL:40:LEU:HD12	2.39	0.52
44:BL:62:TYR:C	44:BL:63:ILE:CD1	2.75	0.52
38:BF:29:TYR:CE1	45:BM:65:LEU:HD11	2.32	0.52
50:BR:81:LEU:HD23	50:BR:81:LEU:C	2.29	0.52
51:BS:7:ALA:HB3	51:BS:18:ARG:HB2	1.92	0.52
52:BT:59:ILE:CG2	52:BT:71:PHE:HD2	2.22	0.52
53:BU:45:SER:HB3	53:BU:51:LEU:CD1	2.32	0.52
41:BI:60:PHE:HZ	53:BU:78:LEU:HD21	1.74	0.52
10:AK:88:ARG:CZ	10:AK:122:ARG:H	2.22	0.52
10:AK:84:GLY:O	10:AK:85:GLU:HG3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:140:HIS:O	37:BE:143:GLU:CB	2.56	0.52
18:AS:3:ALA:CB	18:AS:62:HIS:ND1	2.70	0.52
24:A0:88:ARG:NH1	24:A0:88:ARG:HB2	2.23	0.52
26:A2:38:LEU:HA	26:A2:58:ALA:CB	2.40	0.52
27:A3:46:LYS:HG3	27:A3:58:THR:HG23	1.91	0.52
28:A4:61:LYS:O	28:A4:63:PHE:N	2.43	0.52
31:A7:27:GLY:O	31:A7:31:LEU:CG	2.39	0.52
32:A8:16:ILE:HG23	32:A8:22:VAL:HG23	1.91	0.52
2:AA:1022:G:N1	2:AA:1139:G:N3	2.58	0.52
2:AA:1061:U:H4'	2:AA:1070:A:C4'	2.39	0.52
2:AA:1084:A:N3	2:AA:1084:A:H2'	2.23	0.52
2:AA:1203:G:H2'	2:AA:1206:G:C8	2.43	0.52
2:AA:1299:G:N2	2:AA:1642:G:O6	2.43	0.52
2:AA:1288:U:H2'	2:AA:1327:C:O2	2.09	0.52
2:AA:1333:C:C5'	2:AA:1333:C:H6	2.17	0.52
2:AA:1356:G:C2	2:AA:1357:U:C2	2.97	0.52
2:AA:1380:G:C6	2:AA:1381:G:N7	2.78	0.52
2:AA:137(A):G:N1	2:AA:139:G:N2	2.57	0.52
2:AA:1399:C:O2'	2:AA:1400:G:H5'	2.10	0.52
2:AA:145:G:N2	2:AA:146:G:H1'	2.24	0.52
2:AA:1570:A:C2	2:AA:1571:A:C8	2.97	0.52
2:AA:1591:G:C6	2:AA:1592:C:N4	2.77	0.52
2:AA:1594:G:C2'	2:AA:1595:G:H5'	2.39	0.52
2:AA:1603:A:N3	2:AA:1604:C:C5	2.77	0.52
2:AA:1605:C:H3'	2:AA:1606:G:C8	2.45	0.52
2:AA:1608:A:C6	2:AA:1611:C:N1	2.78	0.52
2:AA:1657:C:C3'	2:AA:1657:C:C6	2.93	0.52
2:AA:1861:G:C2	2:AA:1862:G:C4	2.98	0.52
2:AA:1913:A:C2	2:AA:1916:A:C4	2.97	0.52
2:AA:1984:G:C6	2:AA:1985:G:C8	2.97	0.52
2:AA:2057:A:C4	2:AA:2058:A:C8	2.97	0.52
2:AA:2143:C:H2'	2:AA:2144:U:OP1	2.09	0.52
2:AA:222:A:C2'	2:AA:223:A:OP2	2.57	0.52
2:AA:2407:G:C2	2:AA:2408:U:C4	2.98	0.52
2:AA:2432:A:H2	2:AA:2433:A:C6	2.27	0.52
2:AA:2568:C:H2'	2:AA:2569:G:C5'	2.40	0.52
2:AA:2737:G:O5'	2:AA:2737:G:H8	1.92	0.52
2:AA:2821:A:O2'	2:AA:2822:G:O4'	2.25	0.52
2:AA:2856:C:H2'	2:AA:2857:G:O5'	2.10	0.52
2:AA:332:A:C8	2:AA:335:C:N4	2.78	0.52
2:AA:33:U:C2'	2:AA:34:C:OP2	2.57	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:358:U:O2	2:AA:359:A:H5'	2.10	0.52
2:AA:53:A:C8	2:AA:53:A:O5'	2.62	0.52
2:AA:586:A:N1	2:AA:809:G:C2'	2.72	0.52
2:AA:600:G:H5'	6:AF:30:LEU:HD12	1.84	0.52
2:AA:702:G:N2	2:AA:703:U:C2	2.78	0.52
2:AA:832:G:H8	2:AA:944:G:H21	1.58	0.52
2:AA:907:U:C2	2:AA:908:C:C5	2.97	0.52
1:AB:24:G:N1	1:AB:56:G:C2	2.77	0.52
1:AB:73:A:N6	1:AB:104:A:C8	2.78	0.52
3:AC:10:LEU:HD23	3:AC:220:PRO:CG	2.40	0.52
3:AC:70:LYS:HG2	3:AC:157:LYS:CE	2.40	0.52
4:AD:77:VAL:H	4:AD:114:GLU:H	1.57	0.52
4:AD:142:ASN:H	4:AD:143:ILE:CD1	2.20	0.52
2:AA:1799:G:N2	4:AD:153:LEU:CG	2.73	0.52
4:AD:154:VAL:HG22	4:AD:157:ALA:HB3	1.87	0.52
2:AA:1819:A:OP1	4:AD:157:ALA:HB2	2.10	0.52
2:AA:2822:G:OP1	5:AE:207:GLY:C	2.48	0.52
5:AE:222:ARG:CB	5:AE:227:ALA:HA	2.39	0.52
6:AF:218:VAL:CG1	6:AF:222:ASP:OD2	2.53	0.52
6:AF:197:SER:HB2	6:AF:238:SER:CA	2.39	0.52
7:AG:49:PRO:HB2	7:AG:72:LYS:N	2.25	0.52
8:AH:151:ARG:O	8:AH:161:ILE:CG1	2.49	0.52
9:AI:15:VAL:HG21	9:AI:49:ALA:CA	2.39	0.52
9:AI:62:VAL:HA	9:AI:100:ALA:O	2.09	0.52
9:AJ:41:ALA:O	9:AJ:44:VAL:HB	2.09	0.52
10:AK:26:ALA:CB	10:AK:30:LEU:HD12	2.39	0.52
12:AM:15:ARG:CD	12:AM:40:ASN:ND2	2.73	0.52
12:AM:52:GLN:CB	12:AM:55:GLU:OE2	2.58	0.52
15:AP:82:LYS:HD2	15:AP:125:TRP:CB	2.39	0.52
15:AP:54:VAL:HG22	15:AP:55:GLN:N	2.25	0.52
16:AQ:18:THR:OG1	16:AQ:19:ASP:N	2.42	0.52
18:AS:67:ASP:OD1	18:AS:67:ASP:C	2.47	0.52
20:AU:40:VAL:HG12	20:AU:41:ARG:CG	2.37	0.52
21:AV:153:LYS:HD2	21:AV:153:LYS:N	2.24	0.52
21:AV:115:ILE:O	21:AV:169:VAL:HA	2.10	0.52
21:AV:21:ALA:O	21:AV:32:PHE:CB	2.58	0.52
22:AW:20:LEU:O	22:AW:21:ASP:C	2.46	0.52
34:BA:1089:G:N1	34:BA:1097:C:C4	2.77	0.52
34:BA:1157:A:H61	34:BA:1178:G:H1'	1.75	0.52
34:BA:1483:A:OP2	34:BA:1484:C:C5	2.63	0.52
34:BA:1502:A:H2'	34:BA:1502:A:N3	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:129(A):G:N2	34:BA:190(G):G:C8	2.77	0.52
34:BA:345:C:C4'	34:BA:346:G:O5'	2.49	0.52
34:BA:448:A:H2'	34:BA:449:C:C6	2.45	0.52
34:BA:530:G:O6	35:BB:34:G:C2	2.61	0.52
34:BA:627:G:H2'	34:BA:628:G:H8	1.71	0.52
34:BA:679:C:C6	34:BA:679:C:O5'	2.58	0.52
34:BA:88:A:H2'	34:BA:89:C:O4'	2.09	0.52
34:BA:954:G:H21	34:BA:1227:A:N6	1.99	0.52
34:BA:968:A:O4'	34:BA:968:A:OP1	2.27	0.52
34:BA:979:C:P	34:BA:981:U:O4	2.67	0.52
35:BB:56:C:H3'	35:BB:56:C:C6	2.45	0.52
35:BC:19:G:C3'	35:BC:20:G:C8	2.92	0.52
35:BC:29:A:C2	35:BC:30:G:C8	2.98	0.52
37:BE:68:ILE:CG2	37:BE:70:PHE:CZ	2.93	0.52
37:BE:91:PRO:CD	37:BE:154:LEU:HB3	2.39	0.52
38:BF:160:ALA:O	38:BF:161:GLU:C	2.46	0.52
34:BA:8:A:H5''	40:BH:121:LYS:HD2	1.91	0.52
40:BH:76:ILE:CG2	40:BH:142:LEU:HD22	2.40	0.52
42:BJ:113:GLU:HG3	42:BJ:118:VAL:CG1	2.40	0.52
43:BK:64:LYS:HD3	43:BK:79:VAL:HG21	1.92	0.52
44:BL:50:LEU:CD2	44:BL:58:ARG:NH1	2.72	0.52
45:BM:24:VAL:HG21	45:BM:37:PRO:CD	2.18	0.52
45:BM:65:LEU:HD13	49:BQ:36:PHE:HZ	1.75	0.52
47:BO:46:LYS:O	47:BO:48:PRO:N	2.42	0.52
47:BO:87:GLY:HA2	47:BO:99:HIS:H	1.74	0.52
47:BO:6:THR:N	47:BO:9:GLN:OE1	2.42	0.52
50:BR:64:ARG:HG2	50:BR:65:ARG:N	2.23	0.52
53:BU:30:ASP:CG	53:BU:32:ARG:HB2	2.29	0.52
53:BU:53:ARG:HH12	53:BU:60:GLY:N	2.07	0.52
54:BV:5:LEU:CB	54:BV:9:VAL:HG22	2.40	0.52
10:AK:68:LEU:HD13	10:AK:108:LEU:HD21	1.92	0.52
10:AK:75:LEU:CD1	10:AK:76:THR:N	2.59	0.52
25:A1:41:ASN:O	25:A1:42:ALA:C	2.48	0.52
2:AA:1152:C:H4'	25:A1:80:ILE:HB	1.92	0.52
26:A2:11:GLN:OE1	26:A2:21:ARG:CD	2.57	0.52
26:A2:19:VAL:O	26:A2:20:ILE:C	2.48	0.52
26:A2:74:TYR:HE2	26:A2:88:GLN:NE2	2.06	0.52
27:A3:24:LYS:CG	27:A3:56:ASP:OD1	2.58	0.52
30:A6:19:GLY:C	30:A6:42:PRO:HB2	2.30	0.52
32:A8:18:GLY:C	32:A8:20:GLY:H	2.12	0.52
33:A9:6:SER:HA	33:A9:8:LYS:HZ1	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1013:C:OP2	2:AA:1014:U:P	2.68	0.52
2:AA:1027:A:N3	2:AA:1028:A:N7	2.58	0.52
2:AA:1091:G:N1	2:AA:1100:C:N4	2.57	0.52
2:AA:1102:C:C2'	2:AA:1103:A:O5'	2.57	0.52
2:AA:1202:C:C5	2:AA:1243:G:N1	2.72	0.52
2:AA:1202:C:H3'	2:AA:1203:G:H4'	1.92	0.52
2:AA:1222:C:H2'	2:AA:1223:C:H5'	1.91	0.52
2:AA:1227:A:OP2	25:A1:16:LYS:HE2	2.10	0.52
2:AA:1234:U:N3	2:AA:1235:G:C2	2.77	0.52
2:AA:1299:G:H21	2:AA:1641:A:N6	2.07	0.52
2:AA:1350:C:H2'	2:AA:1351:C:O5'	2.09	0.52
2:AA:1451:C:H3'	2:AA:1453:A:H5'	1.91	0.52
2:AA:1455:G:OP2	2:AA:1456:G:OP2	2.28	0.52
2:AA:1455:G:OP2	2:AA:1456:G:P	2.67	0.52
2:AA:1637:A:C2	2:AA:1638:C:C2	2.97	0.52
2:AA:1657:C:H2'	2:AA:1658:C:H6	1.74	0.52
2:AA:1680:U:H2'	2:AA:1681:G:H1'	1.91	0.52
2:AA:1780:A:O5'	2:AA:1782:C:P	2.68	0.52
2:AA:1850:G:C5	2:AA:1851:U:C5	2.96	0.52
2:AA:1938:A:HO2'	2:AA:1939:U:P	2.28	0.52
2:AA:1973:G:N3	2:AA:1974:C:C5	2.78	0.52
2:AA:2029:G:N1	2:AA:2033:A:C8	2.78	0.52
2:AA:2033:A:HO2'	2:AA:2034:U:P	2.33	0.52
2:AA:2122:U:H5	3:AC:129:ARG:NH2	2.06	0.52
2:AA:2182:G:C2'	2:AA:2183:C:C6	2.84	0.52
2:AA:2239:G:C2	2:AA:2240:C:C2	2.97	0.52
2:AA:223:A:C2	2:AA:408:G:N9	2.78	0.52
2:AA:2346:A:H1'	2:AA:2383:G:N9	2.25	0.52
2:AA:2354:G:C4'	27:A3:31:VAL:HG21	2.40	0.52
2:AA:2415:G:N2	2:AA:2416:C:N1	2.57	0.52
2:AA:2519:U:C2	2:AA:2542:A:C5	2.97	0.52
2:AA:2588:G:C6	2:AA:2589:A:C4	2.98	0.52
2:AA:2611:U:O2'	29:A5:2:ALA:CB	2.58	0.52
2:AA:26:G:H4'	2:AA:1260:G:O2'	2.09	0.52
2:AA:270(X):G:C4	2:AA:270(Y):G:O4'	2.62	0.52
2:AA:326:G:C4	2:AA:327:G:C8	2.97	0.52
2:AA:361:G:C2'	2:AA:362:U:C6	2.87	0.52
2:AA:387:U:OP2	28:A4:31:ILE:HD11	2.10	0.52
2:AA:590:A:C6	2:AA:591:C:N4	2.78	0.52
2:AA:610:C:N3	2:AA:618(A):C:N3	2.58	0.52
2:AA:71:A:C2'	2:AA:72:U:H5''	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:58:G:C3'	2:AA:73:A:N6	2.73	0.52
2:AA:742:G:O2'	2:AA:743:G:H5'	2.10	0.52
2:AA:746:A:O2'	2:AA:747:U:P	2.68	0.52
2:AA:811:U:HO2'	2:AA:812:C:P	2.32	0.52
2:AA:959:A:N6	2:AA:960:A:N6	2.57	0.52
1:AB:62:C:O2'	1:AB:63:G:H5'	2.09	0.52
3:AC:93:TYR:CE2	3:AC:110:PHE:CA	2.92	0.52
3:AC:44:HIS:ND1	3:AC:172:HIS:HB2	2.24	0.52
3:AC:193:ILE:HD13	3:AC:226:PRO:C	2.30	0.52
4:AD:124:LYS:O	4:AD:125:ILE:C	2.47	0.52
5:AE:76:PRO:HA	5:AE:292:PRO:HB2	1.88	0.52
6:AF:167:ASP:OD2	6:AF:232:LEU:HG	2.10	0.52
6:AF:215:ALA:O	6:AF:242:GLU:HG2	2.09	0.52
7:AG:82:GLU:O	7:AG:85:GLN:CG	2.57	0.52
8:AH:37:HIS:HE1	8:AH:67:THR:CG2	2.20	0.52
8:AH:61:ARG:O	8:AH:62:ALA:C	2.48	0.52
9:AI:81:THR:HG21	9:AI:102:ILE:O	2.08	0.52
10:AK:26:ALA:CA	10:AK:30:LEU:HD12	2.39	0.52
12:AM:57:TYR:CB	12:AM:135:ILE:CG2	2.85	0.52
13:AN:45:ASP:HA	13:AN:54:LYS:HE2	1.90	0.52
14:AO:55:GLN:NE2	14:AO:56:LYS:HD3	2.25	0.52
15:AP:64:ALA:CB	15:AP:142:LYS:CG	2.88	0.52
16:AQ:91:ARG:O	16:AQ:94:GLU:CG	2.55	0.52
18:AS:18:ARG:HG3	18:AS:76:VAL:HG11	1.91	0.52
18:AS:84:ARG:O	18:AS:95:ILE:HG12	2.09	0.52
21:AV:52:PHE:CA	21:AV:65:LEU:HD11	2.39	0.52
23:AX:23:LEU:CD2	23:AX:53:LEU:HD11	2.39	0.52
34:BA:1006:C:H2'	34:BA:1006:C:O2	2.08	0.52
34:BA:1007:C:O2'	34:BA:1008:C:C5'	2.58	0.52
34:BA:983:A:O2'	34:BA:1049:U:O2'	2.28	0.52
34:BA:1053:G:OP1	34:BA:1054:C:H3'	2.10	0.52
34:BA:1259:C:O2'	34:BA:1283:G:N2	2.40	0.52
34:BA:1269:A:C2	34:BA:1312:G:N3	2.78	0.52
34:BA:1312:G:H2'	34:BA:1313:U:H6	1.74	0.52
2:AA:1701:A:C2	34:BA:1474:G:H4'	2.45	0.52
34:BA:159:G:N1	34:BA:163:C:N4	2.57	0.52
34:BA:343:U:O2'	34:BA:344:A:O5'	2.14	0.52
34:BA:379:C:N3	34:BA:384:G:N2	2.53	0.52
34:BA:394:G:C5	34:BA:395:C:C5	2.97	0.52
34:BA:410:G:OP2	39:BG:25:ARG:HG3	2.10	0.52
34:BA:432:A:C8	34:BA:433:C:C6	2.98	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:538:G:C2'	34:BA:539:A:O5'	2.57	0.52
34:BA:600:C:H5'	43:BK:129:VAL:CA	2.35	0.52
34:BA:652:U:O2'	34:BA:653:A:N3	2.32	0.52
34:BA:701:C:C2	34:BA:703:G:N2	2.78	0.52
34:BA:727:G:C8	34:BA:727:G:C3'	2.91	0.52
34:BA:872:A:O2'	34:BA:873:A:C5'	2.55	0.52
34:BA:909:A:C2'	34:BA:910:C:O5'	2.57	0.52
34:BA:913:A:O2'	34:BA:914:A:O5'	2.27	0.52
35:BB:50:U:O5'	35:BB:50:U:C6	2.58	0.52
35:BB:74:C:N4	35:BB:75:C:H1'	2.18	0.52
35:BC:74:C:H3'	35:BC:75:C:C5'	2.39	0.52
37:BE:175:ARG:CG	37:BE:179:LYS:HE3	2.39	0.52
37:BE:19:HIS:CG	37:BE:20:GLU:H	2.27	0.52
37:BE:69:LEU:HD22	37:BE:70:PHE:H	1.75	0.52
38:BF:108:ASN:O	38:BF:111:LEU:HG	2.10	0.52
38:BF:157:ILE:C	38:BF:159:GLY:H	2.12	0.52
38:BF:206:GLU:OE2	38:BF:207:VAL:HG22	2.10	0.52
38:BF:28:GLN:HA	38:BF:30:ARG:HH12	1.74	0.52
39:BG:25:ARG:NH2	39:BG:30:LYS:CD	2.71	0.52
40:BH:41:VAL:HA	40:BH:66:MET:HE3	1.91	0.52
41:BI:98:LEU:HD23	41:BI:99:ALA:O	2.09	0.52
34:BA:939:G:C5'	42:BJ:102:ARG:HH12	2.20	0.52
43:BK:7:ALA:HA	43:BK:10:LEU:CD1	2.40	0.52
43:BK:84:ARG:HG2	43:BK:85:ARG:O	2.10	0.52
34:BA:600:C:OP1	43:BK:97:VAL:CA	2.58	0.52
44:BL:46:ALA:HA	44:BL:78:LYS:HB2	1.90	0.52
45:BM:30:SER:CB	45:BM:81:THR:HA	2.38	0.52
46:BN:78:GLN:CA	46:BN:103:LEU:HD13	2.22	0.52
47:BO:113:ARG:O	47:BO:114:LYS:CG	2.58	0.52
47:BO:33:ARG:HB3	47:BO:85:ILE:HG22	1.91	0.52
48:BP:14:ARG:CG	48:BP:17:VAL:HG23	2.40	0.52
48:BP:36:LYS:HB3	48:BP:59:TYR:CZ	2.45	0.52
54:BV:5:LEU:HB2	54:BV:9:VAL:HG22	1.92	0.52
55:BW:61:SER:O	55:BW:62:LEU:C	2.46	0.52
35:BB:29:A:H2'	35:BB:29:A:N3	2.25	0.52
35:BB:72:C:C2'	35:BB:73:A:O5'	2.57	0.52
8:AH:168:VAL:O	8:AH:169:ARG:CG	2.55	0.52
54:BV:81:ARG:O	54:BV:81:ARG:HG2	2.09	0.52
40:BH:40:ARG:HA	40:BH:68:GLU:OE2	2.09	0.52
14:AO:101:ASP:O	14:AO:102:ASP:CB	2.57	0.52
24:A0:45:ARG:CD	24:A0:97:VAL:HG23	2.32	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A1:43:ALA:HB1	26:A2:75:LYS:HB3	1.88	0.52
25:A1:99:ALA:CB	25:A1:106:PHE:CD2	2.93	0.52
26:A2:7:THR:OG1	26:A2:11:GLN:NE2	2.43	0.52
26:A2:80:TYR:O	26:A2:82:ARG:HG3	2.10	0.52
27:A3:5:LYS:NZ	35:BC:3:G:H5''	2.25	0.52
18:AS:23:LEU:HD11	29:A5:26:THR:CA	2.40	0.52
24:A0:99:LYS:CB	29:A5:44:HIS:NE2	2.73	0.52
2:AA:2348:U:H3'	32:A8:42:ARG:CZ	2.39	0.52
2:AA:1011:G:C2'	2:AA:1013:C:H5'	2.40	0.52
2:AA:1054:A:N1	2:AA:1105:U:C2	2.78	0.52
2:AA:1175:U:O2	2:AA:1176:G:H1'	2.10	0.52
2:AA:1469:A:N6	2:AA:1470:G:N1	2.58	0.52
2:AA:1707:G:C4	2:AA:1708:C:C5	2.97	0.52
2:AA:1768:U:N3	2:AA:1985:G:C6	2.78	0.52
2:AA:1827:C:O2	2:AA:1828:G:C1'	2.57	0.52
2:AA:1851:U:C2	2:AA:1852:C:C5	2.97	0.52
2:AA:1933:G:N7	2:AA:1934:C:C5	2.78	0.52
2:AA:1937:A:O4'	2:AA:1937:A:N3	2.40	0.52
2:AA:2049:G:O2'	2:AA:2050:C:O5'	2.28	0.52
2:AA:2074:U:HO2'	2:AA:2598:A:C4'	2.23	0.52
2:AA:218:A:H61	2:AA:235:U:C1'	2.23	0.52
2:AA:2195:C:C2'	2:AA:2196:C:C4'	2.87	0.52
2:AA:2340:G:C2	2:AA:2341:G:N7	2.77	0.52
2:AA:2378:A:H1'	16:AQ:101:VAL:CG2	2.39	0.52
2:AA:2528:U:O2'	2:AA:2529:G:H8	1.92	0.52
2:AA:251:A:HO2'	2:AA:252:G:P	2.33	0.52
2:AA:242:G:C2'	2:AA:254:G:N1	2.72	0.52
2:AA:2564:A:C8	2:AA:2648:C:H5''	2.45	0.52
2:AA:2585:U:H1'	35:BC:76:A:C5	2.44	0.52
2:AA:2700:C:H2'	2:AA:2701:C:O4'	2.10	0.52
2:AA:2720:U:O4	2:AA:2873:A:N6	2.43	0.52
2:AA:2797:U:P	2:AA:2797:U:O4'	2.68	0.52
2:AA:30:G:C4	2:AA:31:C:C5	2.98	0.52
2:AA:444:C:O4'	6:AF:46:TYR:CD1	2.63	0.52
2:AA:590:A:C6	2:AA:591:C:C4	2.97	0.52
2:AA:601:C:O2	2:AA:604:G:H4'	2.09	0.52
2:AA:617:G:P	6:AF:221:GLU:CD	2.88	0.52
2:AA:464:U:C6	2:AA:788:A:C2	2.98	0.52
2:AA:971:C:O2'	2:AA:972:G:P	2.68	0.52
2:AA:990:A:H5'	2:AA:1157:G:OP1	2.10	0.52
3:AC:129:ARG:O	3:AC:130:ILE:CD1	2.55	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:131:LEU:HB3	3:AC:137:LEU:N	2.23	0.52
3:AC:110:PHE:HE1	3:AC:136:LEU:HB3	1.74	0.52
3:AC:139:ASN:OD1	3:AC:142:ALA:HB3	2.09	0.52
5:AE:77:PRO:CB	5:AE:186:GLU:HB2	2.39	0.52
5:AE:222:ARG:O	5:AE:223:LYS:O	2.27	0.52
2:AA:2618:G:O2'	5:AE:246:VAL:HB	2.10	0.52
2:AA:659:C:C5'	6:AF:103:ASN:OD1	2.52	0.52
6:AF:11:ASN:O	6:AF:13:ASP:N	2.43	0.52
6:AF:16:VAL:CG1	6:AF:17:ASP:H	2.23	0.52
6:AF:220:THR:HG22	6:AF:224:ALA:HB2	1.91	0.52
6:AF:223:LEU:C	6:AF:225:PRO:N	2.59	0.52
7:AG:44:ILE:HG22	7:AG:83:PHE:HE2	1.74	0.52
8:AH:10:ILE:CD1	8:AH:49:ILE:HG12	2.39	0.52
8:AH:34:ARG:HH11	8:AH:36:PHE:HZ	1.57	0.52
8:AH:53:ARG:HH11	8:AH:53:ARG:HB3	1.73	0.52
9:AJ:71:ILE:HA	11:AL:61:TYR:CD2	2.44	0.52
9:AJ:89:LYS:NZ	11:AL:60:VAL:O	2.43	0.52
12:AM:15:ARG:HE	12:AM:40:ASN:ND2	2.06	0.52
2:AA:1020:A:C4'	12:AM:49:ARG:NH1	2.66	0.52
14:AO:55:GLN:HE21	14:AO:56:LYS:CD	2.22	0.52
15:AP:123:ILE:CG2	15:AP:124:ALA:N	2.71	0.52
15:AP:45:GLN:NE2	15:AP:153:PRO:CB	2.60	0.52
15:AP:98:GLY:HA2	35:BC:1:G:O2'	2.09	0.52
13:AN:80:ASP:OD2	17:AR:22:VAL:O	2.28	0.52
17:AR:49:LEU:HD13	17:AR:54:THR:CG2	2.40	0.52
18:AS:11:ARG:O	18:AS:12:ILE:CG1	2.58	0.52
19:AT:10:VAL:HG12	19:AT:15:MET:HG2	1.92	0.52
20:AU:19:ARG:O	20:AU:67:LEU:HD22	2.08	0.52
21:AV:106:GLY:HA2	21:AV:142:ASN:ND2	2.24	0.52
21:AV:16:GLU:OE1	21:AV:16:GLU:N	2.43	0.52
21:AV:16:GLU:N	21:AV:36:ARG:HH22	2.08	0.52
21:AV:51:LEU:CG	21:AV:64:ALA:O	2.57	0.52
21:AV:92:VAL:HA	21:AV:124:ALA:CB	2.40	0.52
34:BA:1005:A:C2'	34:BA:1006:C:H5'	2.39	0.52
34:BA:1104:G:H2'	34:BA:1105:A:O5'	2.10	0.52
34:BA:1130:A:N7	34:BA:1131:G:N7	2.58	0.52
34:BA:1150:U:O4'	34:BA:1280:A:N1	2.42	0.52
34:BA:1269:A:C2	34:BA:1312:G:H1'	2.44	0.52
34:BA:1317:C:OP1	34:BA:1317:C:C6	2.63	0.52
34:BA:1326:C:C2	34:BA:1327:C:C5	2.98	0.52
34:BA:1386:G:N1	34:BA:1387:G:C5	2.78	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1960:A:H1'	34:BA:1483:A:H2	1.75	0.52
34:BA:157:G:N1	34:BA:165:C:N4	2.58	0.52
34:BA:301:G:N2	34:BA:302:G:C4	2.77	0.52
34:BA:311:C:H6	34:BA:311:C:O5'	1.93	0.52
34:BA:35:G:C6	34:BA:36:C:C4	2.98	0.52
34:BA:378:G:H2'	34:BA:379:C:C6	2.44	0.52
34:BA:442:C:C2'	34:BA:443:C:H5'	2.40	0.52
34:BA:594:G:H1	34:BA:645:C:N4	2.08	0.52
34:BA:611:A:N6	34:BA:629:G:C6	2.77	0.52
34:BA:752:G:O2'	34:BA:753:A:OP2	2.28	0.52
34:BA:586:C:H42	34:BA:755:G:H1	1.58	0.52
34:BA:776:G:N2	34:BA:802:A:P	2.79	0.52
34:BA:771:G:O6	34:BA:808:C:N3	2.43	0.52
34:BA:572:A:C2	34:BA:864:A:N1	2.77	0.52
34:BA:909:A:C2	34:BA:910:C:C1'	2.92	0.52
34:BA:976:G:N2	34:BA:1363:A:N7	2.58	0.52
35:BB:51:G:N1	35:BB:63:C:N4	2.38	0.52
35:BC:44:A:C2	35:BC:45:G:N3	2.78	0.52
38:BF:19:GLU:HG2	38:BF:54:ARG:HG3	1.91	0.52
39:BG:151:LYS:C	39:BG:154:ASN:ND2	2.63	0.52
39:BG:60:GLU:CB	39:BG:202:LEU:HB3	2.39	0.52
39:BG:88:VAL:HG13	40:BH:97:GLY:HA3	1.91	0.52
42:BJ:113:GLU:CG	42:BJ:113:GLU:O	2.44	0.52
42:BJ:28:ASN:OD1	42:BJ:31:MET:HE1	2.10	0.52
43:BK:45:ILE:HD12	43:BK:61:VAL:HG11	1.92	0.52
34:BA:1124:G:P	45:BM:35:SER:O	2.68	0.52
45:BM:37:PRO:HA	45:BM:72:VAL:HG22	1.91	0.52
46:BN:111:ASP:OD2	46:BN:111:ASP:O	2.27	0.52
47:BO:24:VAL:HG13	47:BO:98:TYR:CE2	2.45	0.52
48:BP:27:LYS:O	48:BP:28:ALA:HB2	2.10	0.52
52:BT:92:ARG:O	52:BT:95:TYR:CB	2.48	0.52
55:BW:63:ILE:CG2	55:BW:64:ASP:N	2.67	0.52
10:AK:133:LEU:N	10:AK:138:THR:HB	2.24	0.52
1:AB:35:U:C6	1:AB:35:U:C3'	2.93	0.52
1:AB:66:A:C2	1:AB:107:U:C4	2.98	0.52
2:AA:228:A:H2'	2:AA:229:A:H5'	1.92	0.52
25:A1:69:ALA:CB	25:A1:76:TYR:CE2	2.92	0.52
27:A3:45:PHE:HE2	27:A3:80:SER:HB2	1.75	0.52
28:A4:64:GLY:O	28:A4:67:TYR:C	2.48	0.52
29:A5:13:LYS:O	29:A5:16:ARG:HB2	2.10	0.52
29:A5:6:VAL:HG13	29:A5:7:PRO:CD	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:A6:28:ARG:HD3	30:A6:30:ASN:HD22	1.73	0.52
2:AA:242:G:H3'	32:A8:5:LYS:HZ3	1.74	0.52
2:AA:1174:A:H2'	2:AA:1175:U:H5''	1.92	0.52
2:AA:118:A:N9	2:AA:177:G:N2	2.57	0.52
2:AA:1209:G:H4'	2:AA:1212:G:H5''	1.92	0.52
2:AA:1303:G:O6	2:AA:1624:G:C6	2.63	0.52
2:AA:1358:G:C6	2:AA:1371:G:H2'	2.44	0.52
2:AA:1389:G:H2'	2:AA:1390:U:C6	2.44	0.52
2:AA:138:G:OP2	2:AA:139:G:OP2	2.28	0.52
2:AA:1434:A:C5	2:AA:1560:G:C2	2.97	0.52
2:AA:1469:A:C6	2:AA:1470:G:N1	2.78	0.52
2:AA:1494:A:N6	2:AA:1495:A:C2	2.78	0.52
2:AA:1655:A:C2'	2:AA:1656:C:C6	2.88	0.52
2:AA:1743:G:C3'	2:AA:1746:G:H5'	2.37	0.52
2:AA:2043:C:C2	2:AA:2044:C:C5	2.98	0.52
2:AA:2054:A:N1	2:AA:2615:U:C4	2.73	0.52
2:AA:2137:C:H5''	2:AA:2138:C:H5	1.75	0.52
2:AA:2224:G:O2'	2:AA:2225:A:C5'	2.57	0.52
2:AA:2236:C:H2'	2:AA:2237:G:O4'	2.09	0.52
2:AA:2298:A:H2'	2:AA:2299:G:O4'	2.10	0.52
2:AA:23:G:N2	2:AA:24:G:C1'	2.68	0.52
2:AA:827:U:C4	2:AA:2430:A:C6	2.97	0.52
2:AA:2522:U:H5'	2:AA:2523:G:OP2	2.10	0.52
2:AA:2581:G:N1	2:AA:2610:C:C1'	2.57	0.52
2:AA:2690:C:H2'	2:AA:2691:C:OP2	2.09	0.52
2:AA:2699:C:N3	2:AA:2708:G:C2	2.77	0.52
2:AA:2707:G:H2'	2:AA:2708:G:O5'	2.09	0.52
2:AA:2813:A:H2'	2:AA:2814:C:C6	2.44	0.52
2:AA:492:A:C2'	2:AA:493:G:O5'	2.58	0.52
2:AA:52:A:H8	2:AA:52:A:O5'	1.93	0.52
2:AA:571:A:HO2'	2:AA:572:A:P	2.32	0.52
2:AA:72:U:O4	2:AA:112:U:O4'	2.27	0.52
2:AA:731:C:C2'	2:AA:732:C:H5'	2.40	0.52
2:AA:737:C:H2'	2:AA:738:G:C5'	2.40	0.52
2:AA:749:C:C6	2:AA:749:C:C3'	2.92	0.52
2:AA:586:A:C2	2:AA:810:U:O4'	2.63	0.52
2:AA:818:G:O2'	2:AA:819:A:H5''	2.10	0.52
2:AA:830:G:C8	2:AA:2448:A:N7	2.78	0.52
2:AA:972:G:OP2	2:AA:974(A):C:H5''	2.10	0.52
2:AA:996:A:C8	2:AA:1160:G:N2	2.78	0.52
3:AC:74:VAL:HA	3:AC:112:ALA:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:46:LYS:HB3	3:AC:210:ARG:CD	2.39	0.52
4:AD:92:LEU:N	4:AD:92:LEU:CD1	2.73	0.52
4:AD:94:ASN:OD1	4:AD:100:LYS:CD	2.57	0.52
6:AF:34:ALA:CB	6:AF:110:ALA:HB1	2.28	0.52
6:AF:55:ARG:HA	6:AF:79:ARG:CZ	2.38	0.52
7:AG:56:ARG:HD3	35:BC:56:C:C2'	2.38	0.52
8:AH:117:GLU:O	8:AH:118:GLU:C	2.49	0.52
2:AA:2746:U:C4'	8:AH:138:GLN:HA	2.37	0.52
8:AH:59:HIS:C	8:AH:61:ARG:N	2.59	0.52
8:AH:72:ALA:O	8:AH:75:VAL:CB	2.57	0.52
8:AH:82:TYR:CD1	8:AH:137:LYS:N	2.78	0.52
10:AK:38:GLU:O	10:AK:39:ALA:C	2.48	0.52
12:AM:54:VAL:HG11	12:AM:138:THR:HG21	1.92	0.52
12:AM:18:ILE:HG21	12:AM:21:ARG:NH1	2.25	0.52
15:AP:65:ARG:NH2	15:AP:85:ILE:O	2.43	0.52
16:AQ:34:LEU:HG	16:AQ:101:VAL:C	2.29	0.52
18:AS:4:LYS:CE	18:AS:106:ILE:HG12	2.39	0.52
18:AS:32:ALA:HA	18:AS:35:ILE:CD1	2.40	0.52
18:AS:18:ARG:HE	18:AS:76:VAL:HG12	1.73	0.52
20:AU:66:ASP:HB2	20:AU:71:VAL:O	2.09	0.52
21:AV:19:ILE:HD11	21:AV:79:ILE:HG12	1.92	0.52
22:AW:20:LEU:O	22:AW:23:LEU:N	2.43	0.52
34:BA:1065:U:C5	34:BA:1190:G:N3	2.77	0.52
34:BA:1071:C:C4	34:BA:1084:G:N2	2.77	0.52
34:BA:1091:U:O2	34:BA:1095:U:C4	2.62	0.52
34:BA:1231:G:H2'	34:BA:1232:U:O4'	2.09	0.52
34:BA:1248:A:C2	34:BA:1249:C:N3	2.78	0.52
34:BA:1267:C:H3'	34:BA:1267:C:H6	1.74	0.52
34:BA:1269:A:H2'	34:BA:1270:C:C5'	2.40	0.52
34:BA:130:A:OP2	34:BA:190(E):U:C4	2.63	0.52
34:BA:1364:U:O2'	34:BA:1365:G:OP1	2.25	0.52
34:BA:1370:G:OP2	34:BA:1370:G:H8	1.93	0.52
34:BA:1518:A:N1	34:BA:1519:A:N1	2.58	0.52
34:BA:290:C:N3	34:BA:291:C:C6	2.78	0.52
34:BA:294:U:O2	34:BA:295:C:C5	2.63	0.52
34:BA:29:G:H4'	34:BA:295:C:O3'	2.09	0.52
34:BA:65:U:C5	34:BA:381:C:N4	2.78	0.52
34:BA:509:A:OP2	34:BA:509:A:O3'	2.27	0.52
34:BA:527:G:C6	34:BA:528:C:C4	2.98	0.52
34:BA:52:G:H1	34:BA:359:U:H3	1.57	0.52
34:BA:57:G:H2'	34:BA:58:C:C6	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:632:A:H2'	34:BA:633:G:O5'	2.10	0.52
34:BA:877:C:OP1	43:BK:88:LYS:HE3	2.10	0.52
34:BA:80:G:N2	34:BA:88:A:H61	2.08	0.52
35:BC:17:U:C5'	35:BC:19:G:OP2	2.57	0.52
35:BC:33:U:O5'	35:BC:33:U:H6	1.93	0.52
37:BE:115:LEU:C	37:BE:118:LEU:HB2	2.30	0.52
37:BE:182:ILE:HG23	37:BE:183:PRO:HD2	1.92	0.52
37:BE:193:ASP:OD2	37:BE:196:LEU:HG	2.09	0.52
34:BA:430:A:C4'	39:BG:7:PRO:HB3	2.36	0.52
41:BI:76:ALA:C	41:BI:80:ARG:HE	2.12	0.52
42:BJ:38:LEU:HD12	42:BJ:41:ARG:HB2	1.91	0.52
43:BK:100:ILE:HG22	43:BK:101:PRO:CD	2.35	0.52
43:BK:24:THR:H	43:BK:60:ARG:CD	2.22	0.52
44:BL:93:ARG:NH2	44:BL:102:LEU:HD13	2.22	0.52
46:BN:12:ARG:HD3	46:BN:75:TYR:CD2	2.45	0.52
49:BQ:14:PRO:HG3	49:BQ:17:LYS:HA	1.92	0.52
49:BQ:40:CYS:O	49:BQ:42:ILE:N	2.43	0.52
51:BS:67:THR:CB	51:BS:70:ALA:HB2	2.32	0.52
52:BT:40:LYS:HB3	52:BT:42:TYR:HE1	1.74	0.52
54:BV:19:VAL:CG2	54:BV:43:GLU:O	2.52	0.52
55:BW:20:LEU:O	55:BW:21:LYS:C	2.48	0.52
10:AK:125:GLY:CA	10:AK:145:VAL:O	2.58	0.52
24:A0:113:LEU:CD1	24:A0:114:VAL:N	2.72	0.52
26:A2:40:VAL:HG12	26:A2:55:THR:HG23	1.90	0.52
28:A4:61:LYS:C	28:A4:63:PHE:N	2.61	0.52
31:A7:42:LEU:O	31:A7:43:THR:C	2.47	0.52
32:A8:60:LEU:HD22	32:A8:64:ARG:HB2	1.91	0.52
2:AA:1020:A:C4'	12:AM:49:ARG:HH22	2.22	0.52
2:AA:1097:U:H2'	2:AA:1098:A:C5'	2.40	0.52
2:AA:1152:C:H5''	25:A1:80:ILE:HB	1.90	0.52
2:AA:1193:G:N2	2:AA:1194:A:H1'	2.24	0.52
2:AA:1232:G:C2	2:AA:1233:C:C6	2.98	0.52
2:AA:1348:G:N2	2:AA:1599:C:C2	2.78	0.52
2:AA:1375:C:H2'	2:AA:1376:C:C6	2.41	0.52
2:AA:1424:G:H2'	2:AA:1425:G:H5'	1.91	0.52
2:AA:1551:C:N4	2:AA:1552:G:O6	2.42	0.52
2:AA:1567:A:N1	4:AD:82:TYR:O	2.43	0.52
2:AA:1674:G:O2'	2:AA:1677:A:N6	2.42	0.52
2:AA:1726:G:H2'	2:AA:1726:G:N3	2.23	0.52
2:AA:1743:G:C5	2:AA:1746:G:N7	2.78	0.52
2:AA:1707:G:N2	2:AA:1751:C:N3	2.49	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1757:U:O4	2:AA:1762:A:C2	2.63	0.52
2:AA:1796:U:H2'	2:AA:1797:C:H5	1.64	0.52
2:AA:1834:U:O3'	2:AA:1835:G:C8	2.63	0.52
2:AA:1846:G:O2'	2:AA:1847:A:H5'	2.10	0.52
2:AA:1904:G:N2	2:AA:1905:C:C1'	2.73	0.52
2:AA:1934:C:H2'	2:AA:1935:G:O5'	2.10	0.52
2:AA:1936:A:C6	2:AA:1945:G:C4	2.97	0.52
2:AA:1944:U:H1'	2:AA:1955:U:C1'	2.39	0.52
2:AA:1964:G:O2'	2:AA:1967:C:OP1	2.28	0.52
2:AA:2093:G:C4	2:AA:2225:A:N6	2.77	0.52
2:AA:2243:U:O2'	2:AA:2244:U:C5'	2.49	0.52
2:AA:2312:U:H2'	7:AG:72:LYS:NZ	2.18	0.52
2:AA:2333:A:C1'	2:AA:2335:A:C4	2.92	0.52
2:AA:2430:A:H2'	2:AA:2431:U:C5'	2.39	0.52
2:AA:2682:U:C4	2:AA:2683:C:C4	2.98	0.52
2:AA:2686:G:C4	2:AA:2687:U:C6	2.98	0.52
2:AA:2698:U:C2	2:AA:2699:C:H5	2.26	0.52
2:AA:2822:G:OP1	5:AE:258:TYR:CE2	2.62	0.52
2:AA:2825:C:O5'	2:AA:2825:C:C6	2.63	0.52
2:AA:2817:G:N2	2:AA:2830:G:C4	2.78	0.52
2:AA:283:A:C8	2:AA:284:U:H6	2.27	0.52
2:AA:350:U:H2'	2:AA:351:G:OP1	2.09	0.52
2:AA:285:C:H1'	2:AA:356:G:N2	2.25	0.52
2:AA:459:U:OP1	31:A7:40:HIS:HA	2.10	0.52
2:AA:461:C:H42	2:AA:469:G:H21	1.53	0.52
2:AA:463:G:N2	2:AA:467:G:C4	2.78	0.52
2:AA:476:G:H22	2:AA:478:A:H2'	1.75	0.52
2:AA:52:A:O2'	2:AA:53:A:H5'	2.10	0.52
2:AA:625:G:C3'	2:AA:626:U:H5'	2.38	0.52
2:AA:693:C:C4	2:AA:694:U:C4	2.98	0.52
2:AA:2712:U:O2'	2:AA:712(A):A:OP1	2.26	0.52
2:AA:707:G:N2	2:AA:724:U:O2	2.40	0.52
2:AA:729:G:OP1	4:AD:206:LYS:HB2	2.09	0.52
2:AA:768:G:C4	2:AA:769:G:C8	2.97	0.52
2:AA:684:G:N2	2:AA:794:G:N3	2.56	0.52
2:AA:918:A:H5'	2:AA:919:G:H8	1.73	0.52
2:AA:941:A:N1	2:AA:942:G:N3	2.58	0.52
2:AA:969:U:O2'	2:AA:970:C:C5'	2.58	0.52
1:AB:21:G:C6	1:AB:22:U:N3	2.78	0.52
1:AB:75:G:C4	21:AV:22:VAL:HG21	2.44	0.52
3:AC:19:ILE:HG23	3:AC:224:ILE:C	2.30	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:112:GLY:O	4:AD:113:MET:O	2.28	0.52
5:AE:269:ILE:CA	5:AE:297:LYS:HZ2	2.20	0.52
5:AE:268:LEU:N	5:AE:297:LYS:HE2	2.24	0.52
6:AF:196:THR:CB	6:AF:200:PRO:HA	2.40	0.52
6:AF:215:ALA:CB	6:AF:239:ALA:HA	2.40	0.52
6:AF:112:ARG:HH12	6:AF:246:ARG:C	2.14	0.52
7:AG:151:ILE:HG21	7:AG:156:ARG:NH1	2.25	0.52
8:AH:95:ALA:O	8:AH:127:GLN:O	2.28	0.52
8:AH:14:VAL:O	8:AH:14:VAL:HG12	2.09	0.52
10:AK:31:PHE:CE2	10:AK:37:ILE:N	2.78	0.52
11:AL:130:GLY:O	11:AL:133:LYS:HB2	2.10	0.52
12:AM:102:ARG:HB3	12:AM:104:TYR:HH	1.72	0.52
13:AN:21:VAL:HA	13:AN:41:ALA:CB	2.39	0.52
13:AN:7:ARG:HE	13:AN:44:LYS:HD3	1.73	0.52
14:AO:132:LYS:N	14:AO:132:LYS:CD	2.72	0.52
14:AO:114:VAL:HG21	14:AO:133:VAL:CA	2.40	0.52
15:AP:26:LYS:O	15:AP:27:GLY:O	2.27	0.52
15:AP:60:ALA:HB3	15:AP:61:LEU:HD23	1.92	0.52
16:AQ:35:VAL:HG12	16:AQ:37:ARG:HD3	1.92	0.52
19:AT:18:MET:HB3	19:AT:24:LEU:HB3	1.92	0.52
19:AT:48:THR:O	19:AT:50:GLU:CD	2.49	0.52
21:AV:152:ILE:HG22	21:AV:153:LYS:N	2.23	0.52
35:BB:34:G:C4	36:B1:66:G:O6	2.62	0.52
34:BA:106:C:C2'	34:BA:107:G:O5'	2.57	0.52
34:BA:1115:C:N4	34:BA:1185:G:H1	2.06	0.52
34:BA:1228:C:O2	34:BA:1228:C:C2'	2.58	0.52
34:BA:1239:A:C3'	34:BA:1298:C:H42	2.23	0.52
34:BA:1451:A:H8	34:BA:1451:A:O5'	1.93	0.52
34:BA:1471:G:H2'	34:BA:1472:U:H6	1.73	0.52
34:BA:1480:G:C2'	34:BA:1481:U:O5'	2.55	0.52
34:BA:1412:C:C4	34:BA:1489:G:N1	2.78	0.52
34:BA:160:A:H2'	34:BA:161:A:O4'	2.09	0.52
34:BA:184:G:O2'	34:BA:185:A:H5'	2.10	0.52
34:BA:198:G:N3	34:BA:199:G:C8	2.78	0.52
34:BA:119:A:C8	34:BA:240:C:N4	2.78	0.52
34:BA:269:C:O2'	34:BA:270:A:C5'	2.55	0.52
34:BA:246:A:H62	34:BA:281:G:H21	1.56	0.52
34:BA:450:G:N2	34:BA:483:C:N3	2.57	0.52
34:BA:579:G:N1	34:BA:763:G:C6	2.78	0.52
34:BA:632:A:H2'	34:BA:633:G:O4'	2.10	0.52
34:BA:782:A:N1	34:BA:801:U:C1'	2.69	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:792:A:C2	34:BA:794:A:N1	2.78	0.52
34:BA:848:C:HO2'	34:BA:849:C:H6	1.58	0.52
34:BA:898:G:H21	34:BA:900:A:H3'	1.75	0.52
34:BA:901:A:H8	34:BA:901:A:O5'	1.91	0.52
34:BA:945:G:C2	34:BA:946:A:C8	2.98	0.52
34:BA:989:C:H4'	34:BA:1016:A:H2	1.75	0.52
35:BB:53:G:C5	35:BB:54:U:O4	2.62	0.52
35:BC:18:G:C2	35:BC:58:A:C5	2.98	0.52
37:BE:109:SER:O	37:BE:112:VAL:HB	2.10	0.52
37:BE:238:LEU:HG	37:BE:238:LEU:O	2.10	0.52
38:BF:115:LEU:O	38:BF:118:GLN:N	2.42	0.52
38:BF:162:GLN:OE1	38:BF:163:ALA:N	2.43	0.52
39:BG:148:VAL:HG12	39:BG:152:SER:CB	2.40	0.52
40:BH:143:ARG:HB3	40:BH:147:ASP:HB3	1.92	0.52
40:BH:145:LYS:HA	40:BH:148:VAL:CG2	2.39	0.52
40:BH:147:ASP:O	40:BH:150:ARG:N	2.43	0.52
40:BH:37:ARG:NH1	40:BH:112:LEU:HD22	2.25	0.52
40:BH:57:LYS:HG3	40:BH:61:TYR:HE2	1.75	0.52
41:BI:12:PRO:HG2	41:BI:13:ASN:ND2	2.25	0.52
42:BJ:49:ILE:HG22	42:BJ:125:MET:HE1	1.92	0.52
42:BJ:87:VAL:HB	42:BJ:156:TRP:CE3	2.45	0.52
43:BK:118:VAL:O	43:BK:119:LEU:HD22	2.10	0.52
43:BK:109:ILE:HD13	43:BK:137:VAL:HB	1.92	0.52
43:BK:21:LYS:O	43:BK:63:LEU:HD11	2.09	0.52
44:BL:32:ASP:CA	44:BL:35:GLU:HB2	2.38	0.52
44:BL:67:GLY:C	44:BL:73:GLN:NE2	2.63	0.52
45:BM:62:HIS:ND1	45:BM:62:HIS:N	2.57	0.52
46:BN:111:ASP:C	46:BN:111:ASP:OD2	2.48	0.52
34:BA:564:C:OP1	47:BO:15:ARG:CZ	2.58	0.52
47:BO:70:ILE:CG2	47:BO:77:LEU:HD11	2.38	0.52
48:BP:70:LEU:HD23	48:BP:70:LEU:C	2.30	0.52
48:BP:88:ARG:O	48:BP:91:ARG:N	2.43	0.52
54:BV:36:ARG:HH21	54:BV:72:GLY:CA	2.23	0.52
54:BV:52:TYR:OH	54:BV:55:LYS:HA	2.10	0.52
55:BW:76:ALA:O	55:BW:77:ALA:C	2.46	0.52
1:AB:35:U:H3'	1:AB:35:U:H6	1.75	0.52
24:A0:107:ASP:OD2	24:A0:109:ALA:CB	2.58	0.52
25:A1:104:GLU:HA	25:A1:107:LYS:HG2	1.92	0.52
26:A2:39:PHE:CE1	26:A2:42:GLY:CA	2.90	0.52
26:A2:6:GLN:HE22	26:A2:10:LYS:CA	2.22	0.52
27:A3:43:THR:OG1	27:A3:75:GLY:O	2.27	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:A6:40:TYR:HB2	30:A6:50:PHE:CD2	2.45	0.52
30:A6:50:PHE:CD1	30:A6:50:PHE:N	2.75	0.52
31:A7:25:LYS:NZ	31:A7:28:ARG:HH22	2.08	0.52
2:AA:459:U:OP1	31:A7:40:HIS:CA	2.58	0.52
2:AA:1032:A:O3'	33:A9:16:VAL:HG11	2.10	0.52
33:A9:24:LEU:CD1	33:A9:35:ARG:HG3	2.39	0.52
2:AA:1057:A:C2	2:AA:1058:G:C5	2.97	0.52
2:AA:1083:U:H5'	9:AI:40:ALA:CB	2.35	0.52
2:AA:996:A:C6	2:AA:1160:G:N1	2.78	0.52
2:AA:1298:C:H5'	2:AA:1302:A:N6	2.25	0.52
2:AA:134:C:C4	2:AA:135:G:C8	2.98	0.52
2:AA:135:G:C4	2:AA:145:G:C6	2.98	0.52
2:AA:139:G:C3'	2:AA:141(A):C:O2	2.51	0.52
2:AA:1441:G:H2'	2:AA:1442:G:C5'	2.40	0.52
2:AA:145:G:C2	2:AA:146:G:C4	2.98	0.52
2:AA:1518:C:C3'	2:AA:1519:G:H4'	2.40	0.52
2:AA:1522:G:C2	2:AA:1523:U:C6	2.98	0.52
2:AA:1565:C:N3	2:AA:1567:A:C1'	2.73	0.52
2:AA:1343:G:H1'	2:AA:1597:A:C2	2.44	0.52
2:AA:1638:C:H2'	2:AA:1639:U:O4'	2.09	0.52
2:AA:1694:C:C2'	2:AA:1695:G:OP2	2.58	0.52
2:AA:1771:C:N3	2:AA:1772:G:C5	2.78	0.52
2:AA:1790:C:O2	2:AA:1790:C:H2'	2.10	0.52
2:AA:1948:G:N1	2:AA:1949:G:C5	2.78	0.52
2:AA:1984:G:O2'	2:AA:1985:G:H5'	2.10	0.52
2:AA:1987:G:H2'	2:AA:1988:C:C6	2.45	0.52
2:AA:1993:U:H2'	2:AA:1993:U:O2	2.10	0.52
2:AA:2061:G:H2'	2:AA:2063:C:H41	1.75	0.52
2:AA:2206:C:H2'	2:AA:2207:C:H6	1.74	0.52
2:AA:2215:G:C2	2:AA:2216:G:C4	2.98	0.52
2:AA:2255:G:N2	2:AA:2256:G:H1'	2.24	0.52
2:AA:237:C:H2'	2:AA:238:C:C6	2.40	0.52
2:AA:240:G:C6	2:AA:241:A:C6	2.98	0.52
2:AA:2421:G:OP2	30:A6:2:ALA:N	2.43	0.52
2:AA:2482:G:N7	2:AA:2483:C:H5	2.08	0.52
2:AA:2519:U:C2	2:AA:2542:A:C6	2.98	0.52
2:AA:2528:U:H1'	2:AA:2536:G:N2	2.25	0.52
2:AA:2552:U:C2	2:AA:2554:U:C5'	2.93	0.52
2:AA:2023:G:H5''	2:AA:2617:C:HO2'	1.73	0.52
2:AA:2654:A:O2'	2:AA:2655:G:H4'	2.09	0.52
2:AA:2654:A:H1'	2:AA:2656:U:C5	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2720:U:O4	2:AA:2872:G:C5	2.63	0.52
2:AA:273(B):C:C4	2:AA:363(D):G:O6	2.63	0.52
2:AA:2746:U:C5	2:AA:2747:G:N7	2.78	0.52
2:AA:2792:G:C2	2:AA:2804:C:N3	2.77	0.52
2:AA:382:G:C2'	2:AA:383:U:H5'	2.40	0.52
2:AA:500:G:O2'	2:AA:502:A:OP2	2.28	0.52
2:AA:610:C:H2'	2:AA:611:C:C5	2.44	0.52
2:AA:661:C:O2	2:AA:662:G:C8	2.63	0.52
2:AA:763:G:N7	2:AA:765:G:C8	2.77	0.52
2:AA:818:G:O2'	2:AA:838:C:H4'	2.10	0.52
2:AA:899:A:N1	2:AA:900:A:C4	2.78	0.52
3:AC:146:GLY:C	3:AC:148:ASN:N	2.64	0.52
3:AC:196:LEU:O	3:AC:199:HIS:N	2.43	0.52
4:AD:119:PRO:C	4:AD:129:LEU:HD21	2.29	0.52
4:AD:143:ILE:HB	4:AD:152:GLN:C	2.31	0.52
4:AD:166:LYS:CG	4:AD:171:VAL:HG12	2.40	0.52
2:AA:1826:G:P	4:AD:227:VAL:HG11	2.50	0.52
5:AE:269:ILE:HD12	5:AE:295:LEU:O	2.10	0.52
5:AE:45:LYS:HE2	5:AE:301:PRO:HB2	1.91	0.52
6:AF:11:ASN:ND2	6:AF:160:LEU:HD21	2.17	0.52
2:AA:598:G:N2	6:AF:33:LYS:HZ1	2.08	0.52
7:AG:22:VAL:HG23	7:AG:131:THR:OG1	2.10	0.52
9:AJ:99:ASP:O	9:AJ:101:VAL:N	2.41	0.52
10:AK:7:LYS:HB2	10:AK:14:LYS:HE2	1.91	0.52
11:AL:104:GLN:O	11:AL:108:ILE:HG13	2.09	0.52
11:AL:93:LYS:HA	11:AL:96:ILE:HG13	1.92	0.52
12:AM:26:VAL:HG11	12:AM:83:ILE:HG21	1.92	0.52
12:AM:45:VAL:O	12:AM:132:LEU:CD1	2.52	0.52
2:AA:1137:G:P	12:AM:60:ARG:HH22	2.29	0.52
12:AM:82:THR:O	12:AM:85:GLY:HA3	2.10	0.52
13:AN:47:THR:CB	13:AN:48:PRO:CD	2.83	0.52
13:AN:49:GLY:HA3	13:AN:53:LYS:CE	2.40	0.52
16:AQ:118:ILE:O	16:AQ:121:GLY:CA	2.58	0.52
16:AQ:57:THR:C	16:AQ:58:LEU:HD23	2.29	0.52
17:AR:45:GLU:CB	17:AR:48:ASN:HD21	2.23	0.52
19:AT:23:LYS:HD3	19:AT:65:VAL:CG1	2.40	0.52
20:AU:29:ALA:O	20:AU:30:ASP:C	2.49	0.52
21:AV:108:VAL:O	21:AV:109:GLN:HG3	2.10	0.52
21:AV:124:ALA:H	21:AV:159:THR:CB	2.23	0.52
21:AV:86:VAL:HG11	21:AV:91:PRO:CG	2.36	0.52
23:AX:12:PRO:CG	23:AX:20:LYS:NZ	2.72	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1047:G:C2	34:BA:1048:G:C8	2.98	0.52
34:BA:1157:A:H1'	34:BA:1181:G:C2	2.45	0.52
34:BA:118:U:H3	34:BA:289:G:C4'	2.16	0.52
34:BA:1196:U:C6	34:BA:1196:U:H3'	2.44	0.52
34:BA:1240:U:P	42:BJ:119:ARG:HH22	2.32	0.52
34:BA:1348:U:N3	34:BA:1349:A:C8	2.77	0.52
34:BA:68:G:C4'	34:BA:171:A:C1'	2.87	0.52
34:BA:177:C:O2'	34:BA:178:C:H5'	2.10	0.52
34:BA:173:U:H5''	34:BA:197:A:C4'	2.40	0.52
34:BA:407:G:C5	34:BA:408:A:N7	2.78	0.52
34:BA:435:C:C2'	34:BA:436:C:H5'	2.40	0.52
34:BA:437:U:C2'	34:BA:438:G:C5'	2.80	0.52
34:BA:460:A:N6	34:BA:462:G:C2	2.78	0.52
34:BA:484:G:C8	34:BA:486:U:C2	2.98	0.52
34:BA:508:C:H4'	34:BA:509:A:O5'	2.10	0.52
34:BA:573:A:H3'	34:BA:573:A:P	2.50	0.52
34:BA:575:G:O2'	34:BA:576:G:C5'	2.58	0.52
34:BA:575:G:O2'	34:BA:576:G:P	2.67	0.52
34:BA:582:U:O4	34:BA:583:A:C6	2.63	0.52
34:BA:581:G:C2'	34:BA:582:U:OP2	2.58	0.52
34:BA:819:A:C4'	34:BA:820:U:OP2	2.58	0.52
34:BA:826:C:H1'	43:BK:15:ASN:HD21	1.68	0.52
34:BA:885:G:O2'	34:BA:915:A:C2	2.63	0.52
34:BA:891:U:C6	34:BA:892:A:N7	2.78	0.52
35:BB:34:G:C6	35:BB:35:A:N6	2.78	0.52
35:BB:49:C:N3	35:BB:50:U:C4	2.78	0.52
38:BF:193:TYR:HD2	38:BF:193:TYR:N	2.08	0.52
39:BG:148:VAL:CB	39:BG:153:ARG:HG2	2.39	0.52
40:BH:133:TYR:O	40:BH:136:MET:HB2	2.10	0.52
40:BH:95:ALA:O	40:BH:96:PRO:C	2.48	0.52
40:BH:96:PRO:O	40:BH:98:THR:N	2.42	0.52
41:BI:56:PRO:HG2	41:BI:57:GLN:OE1	2.10	0.52
41:BI:77:ARG:N	41:BI:80:ARG:HE	2.08	0.52
42:BJ:78:ARG:N	42:BJ:156:TRP:HZ3	2.08	0.52
43:BK:122:ARG:O	43:BK:125:ARG:N	2.42	0.52
47:BO:38:THR:HG23	47:BO:39:VAL:CG2	2.36	0.52
47:BO:38:THR:HG22	47:BO:57:LYS:HB3	1.92	0.52
47:BO:92:ASP:C	47:BO:93:LEU:CD2	2.75	0.52
48:BP:48:LEU:CD2	48:BP:49:THR:O	2.58	0.52
51:BS:58:TYR:CD1	51:BS:59:TRP:HA	2.45	0.52
52:BT:29:HIS:HB3	52:BT:32:TYR:CA	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BU:30:ASP:OD1	53:BU:32:ARG:HG3	2.10	0.52
54:BV:8:GLY:O	54:BV:9:VAL:C	2.48	0.52
36:B1:64:C:OP2	36:B1:64:C:H6	1.93	0.52
35:BB:37:G:H2'	35:BB:38:A:H5'	1.90	0.52
10:AK:88:ARG:NE	10:AK:123:ALA:N	2.58	0.52
2:AA:1509:C:H5'	2:AA:1509:C:H6	1.73	0.52
44:BL:4:TYR:CD1	44:BL:4:TYR:N	2.78	0.52
26:A2:46:VAL:HG12	26:A2:46:VAL:O	2.10	0.52
24:A0:100:LEU:CD2	24:A0:113:LEU:N	2.73	0.51
24:A0:67:LEU:C	24:A0:67:LEU:CD1	2.73	0.51
25:A1:98:ILE:O	25:A1:100:ALA:N	2.43	0.51
25:A1:10:ARG:HA	25:A1:13:ARG:HH12	1.75	0.51
2:AA:30:G:OP1	25:A1:8:ILE:HG13	2.10	0.51
30:A6:21:TYR:OH	30:A6:43:VAL:CA	2.59	0.51
31:A7:21:ARG:HH22	31:A7:42:LEU:C	2.13	0.51
2:AA:242:G:C8	32:A8:3:LYS:O	2.63	0.51
2:AA:1080:C:C4'	11:AL:126:LYS:HB3	2.38	0.51
2:AA:1210:A:H4'	2:AA:1211:U:O5'	2.10	0.51
2:AA:1216:G:N1	2:AA:1234:U:C6	2.78	0.51
2:AA:1310:G:H2'	2:AA:1311:G:H4'	1.91	0.51
2:AA:1334:G:C5	2:AA:1335:U:C5	2.98	0.51
2:AA:1350:C:C2'	2:AA:1351:C:O5'	2.58	0.51
2:AA:1389:G:C5	2:AA:1390:U:C4	2.98	0.51
2:AA:1392:A:C6	2:AA:1393:A:N6	2.78	0.51
2:AA:1464:C:C2	2:AA:1465:G:C8	2.97	0.51
2:AA:1465:G:H21	2:AA:1466:G:H1'	1.75	0.51
2:AA:1495:A:OP2	2:AA:1495:A:C8	2.63	0.51
2:AA:1582:C:H5''	2:AA:1583:A:OP2	2.10	0.51
2:AA:1672:C:O2'	2:AA:1673:U:OP1	2.28	0.51
2:AA:176:G:C2	2:AA:177:G:H1'	2.45	0.51
2:AA:1794:U:H5'	2:AA:1900:A:C6	2.45	0.51
2:AA:1827:C:OP1	2:AA:1971:A:O2'	2.28	0.51
2:AA:1919:A:H2'	2:AA:1920:C:H6	1.75	0.51
2:AA:1954:G:O2'	2:AA:1955:U:C5'	2.58	0.51
2:AA:1995:U:C5	2:AA:1996:C:N4	2.78	0.51
2:AA:2000:G:C5	2:AA:2001:A:N7	2.77	0.51
2:AA:2043:C:N3	2:AA:2044:C:C5	2.78	0.51
2:AA:2225:A:H5''	2:AA:2226:C:C4'	2.39	0.51
2:AA:2294:C:H2'	2:AA:2295:C:C5'	2.40	0.51
2:AA:2313:C:H4'	7:AG:72:LYS:CB	2.40	0.51
2:AA:2349:G:H3'	2:AA:2350:C:H5''	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2416:C:N3	2:AA:2417:C:C5	2.78	0.51
2:AA:2078:C:H5'	2:AA:2434:A:H4'	1.92	0.51
2:AA:2485:G:C2'	2:AA:2486:G:C5'	2.88	0.51
2:AA:2523:G:O2'	2:AA:2524:G:H5'	2.11	0.51
2:AA:2631:G:H5''	2:AA:2892:A:OP1	2.09	0.51
2:AA:262:A:C5	2:AA:263:C:C5	2.98	0.51
2:AA:270(B):A:P	2:AA:270(B):A:O4'	2.68	0.51
2:AA:2825:C:N4	2:AA:2826:A:N7	2.57	0.51
2:AA:2884:U:C6	2:AA:2885:C:C6	2.99	0.51
2:AA:288:C:H5'	2:AA:288:C:C6	2.35	0.51
2:AA:300:A:C6	2:AA:334:C:H4'	2.45	0.51
2:AA:307:G:N2	2:AA:310:A:O5'	2.42	0.51
2:AA:311:A:N6	2:AA:329:G:H5''	2.25	0.51
2:AA:329:G:H8	2:AA:329:G:OP2	1.92	0.51
2:AA:526:A:C2	2:AA:2626:C:O4'	2.63	0.51
2:AA:576:U:H6	2:AA:576:U:O5'	1.93	0.51
2:AA:586:A:C5	2:AA:1254:A:C2	2.95	0.51
2:AA:589:C:N4	2:AA:668:G:N1	2.20	0.51
2:AA:627:A:H2	2:AA:638:G:H21	1.49	0.51
2:AA:700:G:C6	2:AA:733:G:N2	2.78	0.51
2:AA:721:C:N4	2:AA:722:A:H62	2.05	0.51
2:AA:742:G:H2'	2:AA:743:G:O5'	2.09	0.51
2:AA:77:C:H6	2:AA:77:C:OP2	1.93	0.51
2:AA:783:A:O2'	2:AA:784:A:OP1	2.29	0.51
2:AA:861:A:C6	2:AA:917:A:C5	2.98	0.51
1:AB:31:C:H2'	1:AB:32:C:C6	2.45	0.51
1:AB:44:G:H21	1:AB:48:A:C1'	2.23	0.51
1:AB:75:G:C2'	1:AB:76:G:H5'	2.39	0.51
1:AB:99:A:H2'	1:AB:100:G:H8	1.73	0.51
3:AC:133:PRO:O	3:AC:172:HIS:NE2	2.43	0.51
3:AC:131:LEU:HA	3:AC:136:LEU:HD12	1.93	0.51
2:AA:1568:G:P	4:AD:60:GLN:HA	2.49	0.51
5:AE:189:MET:SD	5:AE:311:PHE:CZ	3.03	0.51
5:AE:218:GLY:O	5:AE:219:VAL:CG2	2.58	0.51
6:AF:87:ARG:O	6:AF:88:SER:CB	2.58	0.51
7:AG:140:ARG:HH11	7:AG:144:ARG:HH22	1.59	0.51
7:AG:142:ALA:HB2	7:AG:151:ILE:CG1	2.41	0.51
7:AG:87:ALA:C	7:AG:89:PRO:CD	2.79	0.51
8:AH:55:SER:HB2	8:AH:60:HIS:HB2	1.90	0.51
9:AI:26:GLU:O	9:AI:29:PHE:N	2.44	0.51
9:AJ:50:GLY:O	9:AJ:53:GLN:HB2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:34:GLY:C	10:AK:35:LEU:HG	2.30	0.51
12:AM:105:LEU:HG	12:AM:106:GLY:H	1.74	0.51
2:AA:1137:G:H21	12:AM:86:MET:HE1	1.74	0.51
13:AN:15:GLY:HA3	13:AN:52:VAL:CG2	2.40	0.51
13:AN:5:GLU:CB	13:AN:20:LEU:HG	2.40	0.51
16:AQ:86:LEU:HD23	16:AQ:121:GLY:HA2	1.91	0.51
19:AT:50:GLU:HB3	19:AT:68:LEU:O	2.10	0.51
21:AV:125:PRO:CB	21:AV:157:GLY:HA3	2.40	0.51
21:AV:19:ILE:CD1	21:AV:36:ARG:HG2	2.40	0.51
22:AW:30:ALA:C	22:AW:34:GLN:HG2	2.31	0.51
34:BA:1021:G:H2'	34:BA:1022:G:O4'	2.10	0.51
34:BA:1182:G:HO2'	34:BA:1183:A:P	2.33	0.51
34:BA:1440:C:C2	34:BA:1441:G:C1'	2.93	0.51
34:BA:318:G:H1'	34:BA:1468:A:O2'	2.10	0.51
34:BA:1508:G:O2'	34:BA:1509:C:C5'	2.58	0.51
34:BA:1516:G:N2	34:BA:1518:A:P	2.83	0.51
34:BA:192:U:H4'	55:BW:57:ARG:HH12	1.76	0.51
34:BA:294:U:H2'	34:BA:295:C:C5	2.45	0.51
34:BA:292:G:C6	34:BA:308:C:N4	2.75	0.51
34:BA:330:C:C2'	34:BA:331:G:O5'	2.58	0.51
34:BA:383:A:H8	34:BA:383:A:O5'	1.92	0.51
34:BA:49:U:N1	34:BA:364:A:N6	2.58	0.51
34:BA:52:G:H2'	34:BA:53:A:O4'	2.10	0.51
34:BA:632:A:H2'	34:BA:633:G:H8	1.75	0.51
34:BA:672:U:C2'	34:BA:672:U:O2	2.55	0.51
34:BA:735:C:C2'	34:BA:736:C:O5'	2.57	0.51
34:BA:761:G:H4'	52:BT:103:GLY:H	1.67	0.51
34:BA:772:U:O2'	34:BA:773:G:O5'	2.27	0.51
35:BB:35:A:N7	36:B1:65:U:N3	2.53	0.51
35:BB:36:A:H62	36:B1:65:U:H3	1.51	0.51
35:BC:21:A:C6	35:BC:48:C:C5	2.98	0.51
37:BE:87:ARG:O	37:BE:88:ALA:C	2.48	0.51
38:BF:122:GLU:O	38:BF:125:GLU:N	2.43	0.51
38:BF:170:GLN:HG3	38:BF:170:GLN:O	2.08	0.51
39:BG:124:GLY:O	39:BG:132:ARG:CD	2.53	0.51
39:BG:13:ARG:HH12	39:BG:38:TYR:HE1	1.54	0.51
39:BG:61:LYS:HZ1	39:BG:65:ARG:HB2	1.75	0.51
42:BJ:111:ARG:NH2	42:BJ:122:HIS:CB	2.73	0.51
42:BJ:107:ALA:CB	42:BJ:123:GLU:OE1	2.52	0.51
44:BL:110:GLU:CD	44:BL:111:ARG:N	2.63	0.51
44:BL:20:ARG:O	44:BL:21:PRO:C	2.47	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:12:ARG:HD3	46:BN:75:TYR:HD2	1.75	0.51
34:BA:528:C:H41	47:BO:49:ASN:ND2	2.07	0.51
48:BP:58:GLU:O	48:BP:61:GLU:HB2	2.10	0.51
52:BT:9:VAL:HG11	52:BT:84:LEU:CD1	2.40	0.51
53:BU:40:LEU:HA	53:BU:43:PHE:CD1	2.44	0.51
53:BU:47:THR:OG1	53:BU:85:LEU:HB2	2.10	0.51
55:BW:85:MET:O	55:BW:86:ARG:C	2.48	0.51
56:BX:12:LYS:HZ2	56:BX:19:GLY:H	1.58	0.51
10:AK:98:ILE:HG22	10:AK:99:ALA:N	2.25	0.51
35:BB:14:A:C2	35:BB:22:G:C2	2.98	0.51
1:AB:35:U:O4	1:AB:36:C:N4	2.43	0.51
7:AG:12:GLU:OE1	7:AG:12:GLU:O	2.28	0.51
2:AA:1249:U:H5'	25:A1:4:ALA:CB	2.39	0.51
26:A2:4:ILE:CA	26:A2:12:TYR:CD2	2.86	0.51
26:A2:12:TYR:CE2	26:A2:14:VAL:N	2.78	0.51
2:AA:923:C:O4'	27:A3:26:PHE:HD2	1.90	0.51
27:A3:45:PHE:C	27:A3:46:LYS:HD2	2.30	0.51
28:A4:46:GLU:CD	28:A4:54:GLY:HA3	2.30	0.51
28:A4:44:THR:H	28:A4:61:LYS:NZ	2.08	0.51
28:A4:59:PHE:N	28:A4:62:ARG:HE	2.09	0.51
29:A5:46:CYS:O	29:A5:48:ASN:N	2.40	0.51
2:AA:1029:A:O2'	2:AA:1030:G:C5'	2.56	0.51
2:AA:1087:G:C4	2:AA:1103:A:C2	2.98	0.51
2:AA:1136:G:H21	2:AA:1137:G:H1'	1.75	0.51
2:AA:1186:G:H3'	2:AA:1187:G:C8	2.45	0.51
2:AA:10:G:O2'	2:AA:11:G:O5'	2.26	0.51
2:AA:1203:G:C8	2:AA:1206:G:N7	2.78	0.51
2:AA:120:U:C2'	2:AA:120:U:O2	2.53	0.51
2:AA:1221:C:C2	2:AA:1229:G:C2	2.98	0.51
2:AA:1279:G:H2'	2:AA:1280:G:C8	2.45	0.51
2:AA:1441:G:O2'	2:AA:1442:G:H5'	2.09	0.51
2:AA:1520:U:O5'	2:AA:1520:U:C6	2.57	0.51
2:AA:1526:G:H22	2:AA:1546:C:H42	1.56	0.51
2:AA:153:C:N4	2:AA:173:G:H1	2.08	0.51
2:AA:1717:G:N7	2:AA:1743:G:C6	2.78	0.51
2:AA:1805:U:C4	2:AA:1813:G:C2	2.98	0.51
2:AA:1829:A:H2'	2:AA:1829:A:N3	2.26	0.51
2:AA:1869:G:N3	2:AA:1878:G:C6	2.79	0.51
2:AA:1904:G:H2'	2:AA:1905:C:O5'	2.10	0.51
2:AA:1918:A:N9	2:AA:1918:A:OP2	2.44	0.51
2:AA:1973:G:C4	2:AA:1974:C:C5	2.98	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2027:G:H1'	2:AA:2037:G:H21	1.72	0.51
2:AA:2052:G:H21	5:AE:245:ARG:CG	2.23	0.51
2:AA:2215:G:O2'	2:AA:2216:G:O4'	2.20	0.51
2:AA:2208:U:C2	2:AA:2217:G:C2	2.97	0.51
2:AA:221:A:C2'	2:AA:222:A:OP2	2.58	0.51
2:AA:2230:G:C4	2:AA:2231:C:C5	2.97	0.51
2:AA:2268:A:C5'	2:AA:2269:A:OP2	2.58	0.51
2:AA:2278:A:C2	2:AA:2279:G:C4	2.98	0.51
2:AA:2331:G:C2'	2:AA:2332:U:O4'	2.58	0.51
2:AA:2335:A:N7	2:AA:2337:G:C6	2.78	0.51
2:AA:2356:C:H2'	2:AA:2357:U:C5'	2.40	0.51
2:AA:2391:G:N2	2:AA:2424:C:H2'	2.25	0.51
2:AA:239:U:H2'	2:AA:240:G:C8	2.45	0.51
2:AA:2586:C:H3'	2:AA:2586:C:C6	2.46	0.51
2:AA:2653:U:H5'	2:AA:2654:A:OP2	2.11	0.51
2:AA:2655:G:N3	2:AA:2664:G:O6	2.43	0.51
2:AA:265:A:O2'	2:AA:266:G:OP2	2.28	0.51
2:AA:2693:A:N1	2:AA:2717:G:C6	2.78	0.51
2:AA:2740:A:N6	2:AA:2741:A:N6	2.58	0.51
2:AA:2741:A:C2'	2:AA:2742:C:H5'	2.40	0.51
2:AA:307:G:N2	2:AA:310:A:C8	2.78	0.51
2:AA:302:C:H42	2:AA:315:G:H1	0.64	0.51
2:AA:332:A:H4'	2:AA:333:G:OP1	2.10	0.51
2:AA:273(B):C:C2	2:AA:363(D):G:C6	2.98	0.51
2:AA:412:A:N3	2:AA:413:C:H1'	2.24	0.51
2:AA:486:C:N3	2:AA:495:G:C6	2.79	0.51
2:AA:465:G:N2	2:AA:683:C:C2'	2.72	0.51
2:AA:729:G:C6	4:AD:206:LYS:O	2.64	0.51
2:AA:749:C:C6	2:AA:749:C:H3'	2.41	0.51
2:AA:754:C:C2'	2:AA:755:C:C5'	2.88	0.51
2:AA:831:G:C2'	2:AA:832:G:H5'	2.40	0.51
2:AA:848:G:H3'	2:AA:848:G:H8	1.71	0.51
2:AA:856:C:OP1	27:A3:57:HIS:CE1	2.58	0.51
2:AA:92:G:H2'	2:AA:93:C:C6	2.41	0.51
2:AA:957:A:C2'	2:AA:958:U:OP1	2.58	0.51
1:AB:23:G:H2'	1:AB:24:G:C8	2.45	0.51
2:AA:2174:C:H4'	3:AC:218:MET:HG3	1.92	0.51
4:AD:63:ILE:C	4:AD:64:ILE:HG13	2.30	0.51
5:AE:206:LYS:O	5:AE:257:GLY:HA2	2.10	0.51
6:AF:214:THR:C	6:AF:216:SER:H	2.14	0.51
6:AF:33:LYS:O	6:AF:36:ARG:HG2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2305:A:H2	7:AG:72:LYS:HZ1	1.54	0.51
8:AH:12:ALA:C	8:AH:14:VAL:H	2.13	0.51
9:AI:50:GLY:O	9:AI:53:GLN:HB2	2.10	0.51
10:AK:40:THR:HB	10:AK:43:ASN:H	1.75	0.51
11:AL:100:VAL:CG1	11:AL:101:THR:N	2.69	0.51
11:AL:15:ALA:HA	11:AL:46:THR:HB	1.92	0.51
12:AM:84:ARG:CA	12:AM:87:LEU:HD12	2.40	0.51
12:AM:87:LEU:CD2	12:AM:98:PHE:CE1	2.83	0.51
13:AN:79:PHE:C	13:AN:81:GLU:N	2.62	0.51
15:AP:64:ALA:CA	15:AP:142:LYS:HG2	2.40	0.51
15:AP:57:ARG:CB	15:AP:61:LEU:HD21	2.40	0.51
16:AQ:115:VAL:HG12	16:AQ:119:GLN:CD	2.29	0.51
16:AQ:26:LEU:HD22	16:AQ:101:VAL:HG21	1.91	0.51
18:AS:5:ALA:HB1	18:AS:50:VAL:HG12	1.93	0.51
18:AS:75:TYR:CD1	18:AS:104:THR:OG1	2.56	0.51
22:AW:51:LYS:O	22:AW:54:ALA:CB	2.57	0.51
34:BA:1250:A:C5	34:BA:1251:A:C5	2.99	0.51
34:BA:1236:A:C4'	34:BA:1304:G:H4'	2.15	0.51
34:BA:1342:C:O2'	44:BL:124:GLN:CA	2.58	0.51
34:BA:1348:U:C2	34:BA:1349:A:C8	2.98	0.51
34:BA:1509:C:C2	34:BA:1510:U:C6	2.98	0.51
34:BA:1520:G:O2'	34:BA:1521:G:C5'	2.58	0.51
34:BA:243:A:N6	34:BA:246:A:C6	2.79	0.51
34:BA:404:U:C2	34:BA:405:U:C5	2.98	0.51
34:BA:404:U:C2	34:BA:405:U:H5	2.28	0.51
34:BA:452:A:C6	34:BA:453:A:C6	2.98	0.51
34:BA:52:G:C2	34:BA:53:A:C4	2.98	0.51
34:BA:515:G:N2	34:BA:536:C:N3	2.50	0.51
34:BA:54:C:N3	34:BA:357:G:N2	2.58	0.51
34:BA:754:C:H4'	50:BR:72:ARG:HH22	1.71	0.51
34:BA:834:C:C4	34:BA:853:G:C6	2.98	0.51
34:BA:854:G:P	34:BA:871:U:O2	2.69	0.51
34:BA:881:G:C5	34:BA:882:C:C5	2.98	0.51
35:BB:51:G:C4	35:BB:52:U:C6	2.98	0.51
35:BC:8:U:C4	35:BC:13:C:N4	2.78	0.51
37:BE:187:LEU:CA	37:BE:201:ILE:HB	2.33	0.51
38:BF:164:ARG:CG	38:BF:164:ARG:HH11	2.23	0.51
38:BF:28:GLN:HA	38:BF:30:ARG:NH1	2.25	0.51
38:BF:83:ARG:C	38:BF:87:LEU:HG	2.30	0.51
39:BG:177:ASP:C	39:BG:179:GLU:N	2.64	0.51
40:BH:148:VAL:O	40:BH:152:ARG:HG2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BJ:41:ARG:O	42:BJ:44:TYR:HB2	2.10	0.51
43:BK:63:LEU:CB	43:BK:65:TYR:OH	2.58	0.51
44:BL:78:LYS:O	44:BL:78:LYS:HD2	2.09	0.51
34:BA:689:C:OP1	46:BN:27:ASN:ND2	2.42	0.51
47:BO:104:VAL:O	47:BO:105:TYR:C	2.48	0.51
48:BP:14:ARG:CG	48:BP:44:ARG:NH1	2.73	0.51
34:BA:1202:G:C1'	49:BQ:29:ARG:HD3	2.40	0.51
51:BS:4:ILE:HG23	51:BS:21:VAL:CG1	2.41	0.51
51:BS:57:ARG:HD3	51:BS:79:VAL:HG12	1.92	0.51
53:BU:63:GLN:O	53:BU:67:ALA:CB	2.59	0.51
54:BV:47:HIS:H	54:BV:62:ILE:HG22	1.73	0.51
34:BA:191:G:HO2'	55:BW:102:GLY:CA	2.23	0.51
55:BW:38:LYS:O	55:BW:39:LYS:C	2.46	0.51
55:BW:63:ILE:HD13	55:BW:80:ARG:CB	2.40	0.51
10:AK:88:ARG:HH22	10:AK:121:ILE:HG23	1.75	0.51
2:AA:1510:A:H3'	2:AA:1511:A:C5	2.44	0.51
2:AA:1511:A:H2'	2:AA:1512:G:H5''	1.91	0.51
23:AX:3:ARG:HB2	23:AX:60:GLU:HG2	1.91	0.51
36:B1:20:A:C6	36:B1:21:U:C2	2.98	0.51
2:AA:1283:G:H21	2:AA:1285:G:H2'	1.73	0.51
18:AS:68:ARG:CZ	18:AS:110:LYS:HB3	2.40	0.51
2:AA:2246:G:N9	2:AA:2426:A:C2	2.78	0.51
2:AA:2009:G:C1'	24:A0:107:ASP:O	2.56	0.51
2:AA:1248:G:H8	25:A1:2:PRO:HB3	1.75	0.51
26:A2:69:ILE:N	26:A2:91:THR:CG2	2.45	0.51
2:AA:1364:G:P	28:A4:3:LYS:HG3	2.51	0.51
29:A5:33:CYS:SG	29:A5:40:LYS:HE3	2.51	0.51
29:A5:45:ILE:HB	29:A5:57:VAL:HG21	1.91	0.51
30:A6:32:GLN:HB3	30:A6:35:LEU:HD12	1.91	0.51
32:A8:15:LYS:C	32:A8:22:VAL:HG22	2.31	0.51
32:A8:54:GLU:O	32:A8:58:MET:HB2	2.10	0.51
2:AA:987:G:O2'	2:AA:1000:A:H1'	2.10	0.51
2:AA:1139:G:OP1	12:AM:46:ILE:HG12	2.10	0.51
2:AA:1364:G:C1'	2:AA:1368:G:N2	2.73	0.51
2:AA:137(A):G:C8	2:AA:138:G:O6	2.63	0.51
2:AA:1449:A:H2'	2:AA:449(A):G:O5'	2.11	0.51
2:AA:1800:C:N4	2:AA:1817:G:C6	2.78	0.51
2:AA:1903:G:N2	2:AA:1904:G:C5	2.78	0.51
2:AA:1908:C:O2	2:AA:1909:C:C6	2.63	0.51
2:AA:1909:C:H2'	2:AA:1910:G:C5'	2.40	0.51
2:AA:1944:U:O4'	2:AA:1955:U:H1'	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1678:G:N2	2:AA:1989:G:H22	2.08	0.51
2:AA:1993:U:HO2'	2:AA:1994:C:H5'	1.72	0.51
2:AA:529:A:C2	2:AA:2022:U:OP1	2.63	0.51
2:AA:2040:C:O2	2:AA:2040:C:C2'	2.53	0.51
2:AA:2051:A:C6	2:AA:2614:A:N7	2.79	0.51
2:AA:2060:A:O2'	2:AA:2061:G:OP2	2.23	0.51
2:AA:2088:G:H2'	2:AA:2089:U:O5'	2.11	0.51
2:AA:2234:G:C6	2:AA:2235:G:C5	2.99	0.51
2:AA:2242:G:C2'	2:AA:2243:U:O5'	2.58	0.51
2:AA:2298:A:H1'	2:AA:2321:G:N2	2.25	0.51
2:AA:238:C:C2	2:AA:239:U:C6	2.98	0.51
2:AA:2602:A:OP1	35:BC:75:C:OP1	2.27	0.51
2:AA:2655:G:O2'	2:AA:2656:U:C5	2.63	0.51
2:AA:273(A):G:H2'	2:AA:273(B):C:C6	2.44	0.51
2:AA:273(D):C:N4	2:AA:363(B):G:C6	2.78	0.51
2:AA:2768:C:O2'	2:AA:2769:C:H5'	2.10	0.51
2:AA:2859:G:O2'	2:AA:2860:A:H5'	2.10	0.51
2:AA:2837:G:H1	2:AA:2881:C:N4	2.08	0.51
2:AA:297:C:C5	2:AA:298:G:C4	2.98	0.51
2:AA:574:C:C2	2:AA:2055:C:C6	2.98	0.51
2:AA:681:G:H2'	2:AA:682:G:O4'	2.11	0.51
2:AA:686:G:H8	31:A7:8:ASN:HD22	1.58	0.51
2:AA:700:G:C6	2:AA:733:G:C2	2.99	0.51
2:AA:736:C:C4	2:AA:737:C:C5	2.98	0.51
2:AA:777:A:C2'	2:AA:778:G:C5'	2.88	0.51
2:AA:786:C:C2'	2:AA:787:U:O4'	2.57	0.51
2:AA:906:G:C3'	2:AA:907:U:H5''	2.40	0.51
2:AA:950:G:C5	2:AA:951:C:C5	2.98	0.51
2:AA:950:G:H2'	2:AA:951:C:C5	2.39	0.51
2:AA:962:G:O2'	2:AA:963:U:O4'	2.27	0.51
1:AB:30:C:H4'	1:AB:58:A:H2	1.75	0.51
1:AB:83:G:N1	1:AB:84:C:C5	2.77	0.51
9:AI:25:LEU:HA	9:AI:28:LYS:HD2	1.91	0.51
9:AI:24:LYS:O	9:AI:27:ASP:N	2.43	0.51
9:AJ:61:VAL:O	9:AJ:102:ILE:N	2.44	0.51
11:AL:113:MET:N	11:AL:114:PRO:HD2	2.24	0.51
14:AO:142:LEU:O	14:AO:145:LEU:CD1	2.58	0.51
15:AP:31:PHE:CE1	15:AP:87:LYS:O	2.63	0.51
16:AQ:32:PRO:CG	16:AQ:100:ALA:HB1	2.40	0.51
16:AQ:31:LYS:O	16:AQ:49:THR:HG23	2.10	0.51
2:AA:1754:C:H5'	17:AR:39:ASN:ND2	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:40:ASN:CG	18:AS:41:LYS:N	2.58	0.51
2:AA:494:G:H4'	18:AS:6:ILE:CG2	2.38	0.51
2:AA:58:G:OP1	19:AT:60:GLY:HA2	2.10	0.51
20:AU:103:LEU:O	20:AU:104:GLU:C	2.49	0.51
20:AU:105:ASP:CB	20:AU:108:ARG:HD2	2.40	0.51
20:AU:81:LYS:NZ	20:AU:84:GLY:N	2.58	0.51
20:AU:73:HIS:CE1	20:AU:89:ARG:O	2.63	0.51
21:AV:40:ASP:HB2	21:AV:41:ARG:NE	2.26	0.51
21:AV:68:ALA:O	21:AV:82:ASP:CB	2.58	0.51
23:AX:31:LEU:O	23:AX:32:GLN:OE1	2.27	0.51
23:AX:38:GLU:OE1	23:AX:40:THR:HG21	2.10	0.51
34:BA:1125:U:HO2'	34:BA:1126:U:P	2.33	0.51
34:BA:1128:C:O2	34:BA:1130:A:N7	2.43	0.51
34:BA:1157:A:N6	34:BA:1178:G:H1'	2.25	0.51
34:BA:1169:A:C2'	34:BA:1171:G:H5'	2.40	0.51
34:BA:961:U:O2	34:BA:1201:A:N1	2.43	0.51
34:BA:1236:A:C2	34:BA:1237:C:N3	2.78	0.51
34:BA:1284:C:C6	34:BA:1285:A:C8	2.99	0.51
34:BA:1407:C:C2'	34:BA:1408:A:C5'	2.89	0.51
34:BA:1415:G:O2'	34:BA:1416:G:H5'	2.10	0.51
34:BA:1418:A:H2'	34:BA:1419:G:H5'	1.92	0.51
34:BA:1470:G:C2'	34:BA:1471:G:O5'	2.57	0.51
34:BA:1408:A:C4	34:BA:1494:G:N2	2.78	0.51
34:BA:149:A:H2'	34:BA:150:C:C6	2.46	0.51
34:BA:163:C:O2'	34:BA:164:U:C4'	2.58	0.51
34:BA:183:G:O6	34:BA:194:C:N3	2.44	0.51
34:BA:225:C:C2'	34:BA:226:G:O5'	2.53	0.51
34:BA:247:G:N3	34:BA:282:A:C2	2.76	0.51
34:BA:28:G:N1	34:BA:556:C:N4	2.59	0.51
34:BA:376:G:OP1	51:BS:6:LEU:HD11	2.10	0.51
34:BA:508:C:H5''	34:BA:509:A:OP1	2.10	0.51
34:BA:550:G:C6	34:BA:551:U:C4	2.98	0.51
34:BA:582:U:C4	34:BA:583:A:C5	2.98	0.51
34:BA:745:C:H1'	34:BA:836:G:O2'	2.10	0.51
34:BA:774:G:H8	34:BA:774:G:H5''	1.76	0.51
34:BA:817:C:C4	34:BA:819:A:O4'	2.63	0.51
34:BA:575:G:N1	34:BA:821:G:N7	2.58	0.51
34:BA:859:A:C5	34:BA:860:A:C4	2.98	0.51
34:BA:872:A:C4	34:BA:874:G:N7	2.78	0.51
34:BA:929:G:H5'	34:BA:1533:C:N4	2.26	0.51
34:BA:950:U:H1'	34:BA:971:G:C4	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BC:36:A:N1	36:B1:60:A:C2	2.78	0.51
35:BC:47:U:O2	35:BC:50:U:OP1	2.27	0.51
35:BC:18:G:N1	35:BC:57:G:C6	2.77	0.51
35:BC:18:G:C6	35:BC:58:A:C2	2.97	0.51
35:BC:74:C:C3'	35:BC:75:C:C5'	2.82	0.51
39:BG:190:ASP:O	39:BG:194:LEU:CD2	2.57	0.51
40:BH:143:ARG:HB3	40:BH:147:ASP:CB	2.41	0.51
41:BI:39:LYS:HG3	41:BI:64:GLN:CB	2.36	0.51
42:BJ:112:PRO:O	42:BJ:113:GLU:O	2.28	0.51
46:BN:40:ILE:O	46:BN:41:THR:CG2	2.58	0.51
46:BN:31:THR:OG1	46:BN:42:TRP:HB3	2.11	0.51
48:BP:77:ASN:O	48:BP:81:LEU:CD1	2.56	0.51
49:BQ:36:PHE:C	49:BQ:36:PHE:CD1	2.82	0.51
49:BQ:25:VAL:HG12	49:BQ:39:LEU:HD23	1.93	0.51
50:BR:8:LYS:O	50:BR:12:ILE:HG13	2.11	0.51
50:BR:42:HIS:CG	50:BR:43:LEU:N	2.78	0.51
51:BS:4:ILE:HG23	51:BS:21:VAL:HG13	1.89	0.51
51:BS:26:ARG:HB3	51:BS:30:GLY:HA3	1.91	0.51
52:BT:9:VAL:O	52:BT:11:VAL:CG1	2.58	0.51
54:BV:20:LEU:CD1	54:BV:21:GLU:N	2.72	0.51
55:BW:89:ARG:HB2	55:BW:104:LEU:CD1	2.40	0.51
10:AK:77:VAL:O	10:AK:144:HIS:ND1	2.44	0.51
7:AG:90:LEU:CD2	48:BP:3:ARG:NH1	2.70	0.51
2:AA:1114:G:C2	2:AA:1115:G:C8	2.98	0.51
26:A2:7:THR:C	26:A2:9:GLY:N	2.59	0.51
27:A3:27:GLY:O	27:A3:28:GLY:O	2.28	0.51
28:A4:15:ILE:HG12	28:A4:36:TRP:CE3	2.45	0.51
2:AA:2360:A:P	32:A8:49:VAL:HG13	2.50	0.51
2:AA:1064:C:H3'	2:AA:1065:U:H5	1.76	0.51
2:AA:1044:G:O2'	2:AA:1111:A:C2	2.63	0.51
2:AA:1128:A:O2'	2:AA:1129:A:P	2.68	0.51
2:AA:1182:A:C2'	2:AA:1183:G:O5'	2.58	0.51
2:AA:1215:G:H1	2:AA:1234:U:H3	1.56	0.51
2:AA:1247:A:O2'	2:AA:1248:G:OP1	2.28	0.51
2:AA:1392:A:C4	2:AA:1393:A:C6	2.99	0.51
2:AA:1404:C:C2	2:AA:1405:U:C5	2.98	0.51
2:AA:1417:C:C5	2:AA:1418:G:C5	2.98	0.51
2:AA:1455:G:H2'	2:AA:1456:G:O4'	2.10	0.51
2:AA:1457:A:C2'	2:AA:1458:C:H5'	2.41	0.51
2:AA:1492:G:O2'	2:AA:1493:C:C6	2.54	0.51
2:AA:1480:G:N1	2:AA:1513:C:O2	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:152:G:H2'	2:AA:153:C:H5'	1.93	0.51
2:AA:1418:G:C2'	2:AA:1579:A:H61	2.24	0.51
2:AA:1579:A:O2'	2:AA:1580:A:H5'	2.10	0.51
2:AA:1580:A:C2	2:AA:1581:G:N1	2.78	0.51
2:AA:1615:C:OP2	2:AA:1615:C:H6	1.93	0.51
2:AA:1630:G:O4'	2:AA:2698:U:OP1	2.29	0.51
2:AA:1669:A:O2'	2:AA:1670:C:P	2.68	0.51
2:AA:1725:G:O6	2:AA:1741:C:N4	2.44	0.51
2:AA:729:G:O6	2:AA:1775:U:C4	2.64	0.51
2:AA:1897:G:H2'	2:AA:1898:U:O4'	2.09	0.51
2:AA:2103:C:N3	2:AA:2187:G:C6	2.79	0.51
2:AA:2217:G:C2	2:AA:2218:G:C8	2.98	0.51
2:AA:2217:G:O2'	2:AA:2218:G:H5'	2.10	0.51
2:AA:2225:A:C5'	2:AA:2226:C:O4'	2.59	0.51
2:AA:2269:A:N7	2:AA:2270:G:N7	2.58	0.51
2:AA:2269:A:H2'	2:AA:2270:G:O4'	2.10	0.51
2:AA:2483:C:C4	2:AA:2484:G:C8	2.98	0.51
2:AA:2531:A:C2'	2:AA:2532:G:C5'	2.87	0.51
2:AA:2543:G:C6	2:AA:2544:G:N1	2.78	0.51
2:AA:2558:C:N3	2:AA:2559:C:C4	2.79	0.51
2:AA:262:A:N7	2:AA:263:C:C5	2.78	0.51
2:AA:2696:U:O2'	2:AA:2697:G:H5'	2.10	0.51
2:AA:270(H):C:H2'	2:AA:270(I):G:C8	2.45	0.51
2:AA:2524:G:O2'	2:AA:2741:A:N1	2.42	0.51
2:AA:2866:U:H4'	2:AA:2867:G:O5'	2.09	0.51
2:AA:2868:A:H2'	2:AA:2869:G:C8	2.44	0.51
2:AA:2878:U:H6	2:AA:2878:U:OP2	1.89	0.51
2:AA:297:C:N3	2:AA:342:G:C2	2.78	0.51
2:AA:502:A:H3'	2:AA:502:A:C8	2.45	0.51
2:AA:531:C:H3'	2:AA:532:A:O4'	2.09	0.51
2:AA:587:C:HO2'	2:AA:588:U:P	2.33	0.51
2:AA:685:A:N3	2:AA:688:U:C4	2.78	0.51
2:AA:696:G:C6	2:AA:697:C:C4	2.98	0.51
2:AA:823:G:C6	2:AA:835:A:C6	2.98	0.51
2:AA:956:G:H2'	2:AA:957:A:H5''	1.93	0.51
1:AB:41:U:H3'	1:AB:41:U:H6	1.74	0.51
1:AB:82:G:C2'	1:AB:83:G:H8	2.17	0.51
3:AC:113:VAL:HG12	3:AC:138:PRO:HG3	1.92	0.51
4:AD:174:ARG:NE	4:AD:180:VAL:HG22	2.24	0.51
4:AD:213:LYS:HB3	4:AD:215:LYS:H	1.75	0.51
5:AE:228:ARG:O	5:AE:231:TRP:N	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:239:GLY:O	5:AE:240:PRO:O	2.28	0.51
5:AE:251:PRO:O	5:AE:252:GLN:NE2	2.44	0.51
5:AE:84:ARG:O	5:AE:85:ALA:HB2	2.11	0.51
6:AF:197:SER:CB	6:AF:236:THR:OG1	2.58	0.51
2:AA:2317:C:H4'	7:AG:150:SER:HB3	1.92	0.51
7:AG:21:VAL:HG11	7:AG:84:LEU:HD21	1.93	0.51
8:AH:34:ARG:CG	8:AH:35:THR:N	2.73	0.51
12:AM:69:TYR:HD2	12:AM:71:TYR:HE1	1.58	0.51
13:AN:16:ALA:O	13:AN:17:ARG:HG3	2.10	0.51
13:AN:1:MET:O	13:AN:33:ALA:N	2.43	0.51
2:AA:2562:U:H1'	13:AN:23:LYS:HD3	1.92	0.51
13:AN:87:ILE:HD12	13:AN:87:ILE:N	2.26	0.51
15:AP:41:THR:HG23	15:AP:127:ASN:OD1	2.10	0.51
15:AP:25:GLY:C	15:AP:27:GLY:N	2.64	0.51
15:AP:64:ALA:HA	15:AP:142:LYS:CG	2.41	0.51
16:AQ:41:LYS:NZ	16:AQ:68:GLU:OE2	2.42	0.51
18:AS:18:ARG:O	18:AS:21:VAL:HG22	2.11	0.51
19:AT:49:VAL:O	19:AT:50:GLU:O	2.28	0.51
20:AU:30:ASP:OD1	20:AU:30:ASP:N	2.43	0.51
20:AU:49:GLU:CD	20:AU:58:GLU:O	2.48	0.51
20:AU:51:LEU:CD1	20:AU:95:ASN:O	2.59	0.51
20:AU:48:VAL:CG2	20:AU:98:VAL:HA	2.31	0.51
21:AV:116:VAL:C	21:AV:118:HIS:N	2.62	0.51
15:AP:42:TYR:C	21:AV:119:ASN:HD21	2.13	0.51
22:AW:31:ARG:O	22:AW:33:VAL:C	2.47	0.51
23:AX:23:LEU:HA	23:AX:28:LEU:CD1	2.22	0.51
34:BA:1338:G:H2'	34:BA:1339:A:C8	2.46	0.51
34:BA:1377:A:H4'	34:BA:1378:C:C5	2.46	0.51
34:BA:1400:C:H4'	34:BA:1401:G:OP2	2.10	0.51
34:BA:1463:C:H2'	34:BA:1464:G:O4'	2.09	0.51
34:BA:233:C:N3	34:BA:234:C:C5	2.79	0.51
34:BA:247:G:C2'	34:BA:248:C:O5'	2.59	0.51
34:BA:359:U:C4	34:BA:360:A:N7	2.78	0.51
34:BA:421:U:C6	34:BA:421:U:P	3.03	0.51
34:BA:522:C:C5	34:BA:523:A:N6	2.69	0.51
34:BA:556:C:C2'	34:BA:557:G:H5'	2.41	0.51
34:BA:571:U:O4	34:BA:865:A:N1	2.44	0.51
34:BA:616:G:C2'	34:BA:617:G:H5'	2.40	0.51
34:BA:76:C:H2'	34:BA:77:G:C8	2.45	0.51
34:BA:826:C:H5'	43:BK:12:ARG:NE	2.24	0.51
34:BA:922:G:H2'	34:BA:923:A:H8	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:51:G:C5	35:BB:52:U:C5	2.98	0.51
35:BC:28:C:O5'	35:BC:28:C:C6	2.63	0.51
37:BE:217:ARG:CA	37:BE:220:ASP:OD2	2.44	0.51
38:BF:172:ARG:NH2	38:BF:203:PHE:HE2	2.04	0.51
38:BF:204:LEU:O	38:BF:205:GLY:C	2.48	0.51
39:BG:190:ASP:O	39:BG:193:ASP:CG	2.49	0.51
40:BH:125:SER:C	40:BH:127:ASN:N	2.60	0.51
41:BI:67:MET:HB2	41:BI:68:PRO:CD	2.39	0.51
34:BA:737:A:OP1	41:BI:91:VAL:HG13	2.11	0.51
42:BJ:87:VAL:HB	42:BJ:156:TRP:HE3	1.75	0.51
42:BJ:93:PRO:O	42:BJ:94:ARG:C	2.48	0.51
44:BL:28:VAL:HG23	44:BL:31:GLN:O	2.10	0.51
47:BO:117:ARG:CZ	47:BO:124:LYS:N	2.73	0.51
47:BO:117:ARG:NH1	47:BO:124:LYS:CD	2.74	0.51
47:BO:84:LEU:CB	47:BO:104:VAL:HG11	2.40	0.51
47:BO:88:GLY:O	47:BO:97:ARG:C	2.48	0.51
48:BP:108:ARG:NH1	48:BP:108:ARG:CB	2.73	0.51
48:BP:14:ARG:NE	48:BP:44:ARG:NH1	2.59	0.51
34:BA:1317:C:C6	49:BQ:16:PHE:CD2	2.99	0.51
49:BQ:39:LEU:HD13	49:BQ:44:LEU:HA	1.92	0.51
51:BS:43:LYS:CG	51:BS:48:TRP:CE3	2.94	0.51
51:BS:75:ARG:HG3	51:BS:80:PHE:HB2	1.90	0.51
34:BA:193:C:H5'	55:BW:60:GLU:HB3	1.92	0.51
56:BX:12:LYS:HG3	56:BX:18:TYR:CA	2.40	0.51
10:AK:114:LYS:NZ	10:AK:133:LEU:HD23	2.25	0.51
10:AK:93:ILE:O	10:AK:93:ILE:CG1	2.56	0.51
35:BB:24:G:O5'	35:BB:24:G:H8	1.94	0.51
2:AA:1507:A:H5'	2:AA:1508:A:OP1	2.09	0.51
35:BB:1:G:N1	35:BB:73:A:C4	2.79	0.51
10:AK:61:GLU:O	10:AK:62:LEU:C	2.47	0.51
2:AA:1113:U:C2'	2:AA:1114:G:H8	2.16	0.51
25:A1:99:ALA:CA	25:A1:106:PHE:CD1	2.93	0.51
2:AA:994:C:C2	25:A1:53:LYS:HD3	2.45	0.51
26:A2:24:SER:OG	26:A2:28:GLU:CG	2.59	0.51
26:A2:74:TYR:CD1	26:A2:86:HIS:O	2.64	0.51
28:A4:59:PHE:CA	28:A4:62:ARG:NE	2.74	0.51
28:A4:59:PHE:CG	28:A4:62:ARG:NH2	2.79	0.51
29:A5:10:LYS:HG3	29:A5:11:THR:H	1.76	0.51
29:A5:42:SER:O	29:A5:43:HIS:CB	2.57	0.51
32:A8:15:LYS:C	32:A8:16:ILE:HD12	2.31	0.51
33:A9:17:VAL:HG12	33:A9:18:ARG:H	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1034:G:OP1	33:A9:18:ARG:NH2	2.42	0.51
2:AA:1058:G:HO2'	2:AA:1059:G:C5'	2.22	0.51
2:AA:1062:G:C6	2:AA:1077:A:C4	2.99	0.51
2:AA:1165:U:O2'	2:AA:1166:C:H6	1.91	0.51
2:AA:1348:G:C2'	2:AA:1349:A:O5'	2.58	0.51
2:AA:1392:A:C5	2:AA:1393:A:C6	2.98	0.51
2:AA:1442:G:O2'	2:AA:1443:G:H5'	2.11	0.51
2:AA:1478:G:N2	2:AA:1515:C:N3	2.56	0.51
2:AA:1518:C:C4	2:AA:1519:G:C8	2.97	0.51
2:AA:1571:A:H2	2:AA:1572:A:C8	2.27	0.51
2:AA:1694:C:O2'	2:AA:1695:G:H5''	2.10	0.51
2:AA:1753:G:C8	2:AA:1755:A:OP2	2.63	0.51
2:AA:1636:C:C2'	2:AA:1761:C:H1'	2.41	0.51
2:AA:1777:U:C4	2:AA:1778:U:C5	2.99	0.51
2:AA:1858:G:C2	2:AA:1885:A:C5	2.98	0.51
2:AA:1892:C:C2	2:AA:1893:C:C5	2.99	0.51
2:AA:191:A:C2	2:AA:192:C:N3	2.79	0.51
2:AA:1941:C:O2	2:AA:1942:C:C5'	2.58	0.51
2:AA:1970:A:C2'	2:AA:1971:A:OP2	2.59	0.51
2:AA:2000:G:O6	2:AA:2001:A:N6	2.43	0.51
2:AA:2018:G:N2	2:AA:2019:A:H1'	2.24	0.51
2:AA:2098:U:H2'	2:AA:2099:U:C6	2.45	0.51
2:AA:2183:C:C2	2:AA:2184:G:N7	2.78	0.51
2:AA:2191:G:C2	2:AA:2192:G:H1'	2.46	0.51
2:AA:2215:G:N2	2:AA:2216:G:C2	2.79	0.51
2:AA:2268:A:C4'	2:AA:2269:A:OP2	2.59	0.51
2:AA:2373:G:C2	2:AA:2374:C:C4	2.99	0.51
2:AA:2495:G:H2'	2:AA:2496:C:O4'	2.10	0.51
2:AA:2595:G:C8	2:AA:2595:G:H3'	2.46	0.51
2:AA:2661:G:C2'	2:AA:2662:A:H8	2.20	0.51
2:AA:2730:C:O3'	5:AE:265:ASN:OD1	2.29	0.51
2:AA:2746:U:C4	2:AA:2747:G:N7	2.79	0.51
2:AA:2774:C:O2	2:AA:2774:C:H2'	2.10	0.51
2:AA:29:U:O5'	2:AA:29:U:C6	2.63	0.51
2:AA:300:A:C6	2:AA:334:C:C4'	2.93	0.51
2:AA:391:G:C4	2:AA:411:G:C2	2.98	0.51
2:AA:643:A:C8	2:AA:643:A:H3'	2.46	0.51
2:AA:681:G:N2	2:AA:682:G:N3	2.58	0.51
2:AA:699:A:N6	2:AA:734:A:C8	2.78	0.51
2:AA:811:U:O2'	2:AA:812:C:OP1	2.22	0.51
2:AA:815:C:N3	2:AA:1193:G:C6	2.79	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:864:G:H2'	2:AA:865:C:O4'	2.09	0.51
2:AA:940:G:N1	2:AA:941:A:H8	2.08	0.51
1:AB:2:C:H6	1:AB:2:C:O5'	1.94	0.51
1:AB:52:A:N3	1:AB:53:A:C1'	2.73	0.51
1:AB:79:C:H2'	1:AB:80:U:C5'	2.41	0.51
3:AC:32:LEU:CD1	3:AC:220:PRO:HB2	2.32	0.51
3:AC:95:GLY:N	3:AC:99:ILE:HD12	2.25	0.51
4:AD:196:ASN:CB	4:AD:199:ARG:HD2	2.39	0.51
4:AD:66:PHE:H	4:AD:67:LYS:HZ3	1.58	0.51
5:AE:212:GLY:C	5:AE:214:VAL:N	2.62	0.51
5:AE:222:ARG:HH21	5:AE:233:ARG:C	2.12	0.51
5:AE:267:ARG:HD3	5:AE:297:LYS:HD2	1.91	0.51
5:AE:302:GLY:O	5:AE:303:PRO:O	2.27	0.51
5:AE:45:LYS:CE	5:AE:303:PRO:O	2.59	0.51
5:AE:99:VAL:C	5:AE:100:TRP:CG	2.84	0.51
2:AA:452:G:P	6:AF:52:ALA:HB2	2.50	0.51
6:AF:95:GLU:O	6:AF:96:LYS:HG3	2.10	0.51
7:AG:24:HIS:HB2	7:AG:129:ASP:OD2	2.11	0.51
8:AH:43:THR:CG2	8:AH:52:THR:HG22	2.27	0.51
12:AM:44:ALA:HB1	12:AM:132:LEU:HD22	1.90	0.51
12:AM:14:ALA:C	12:AM:40:ASN:ND2	2.52	0.51
13:AN:113:LYS:O	13:AN:117:LEU:HD23	2.10	0.51
13:AN:1:MET:N	13:AN:32:TYR:CG	2.77	0.51
15:AP:46:VAL:HG22	15:AP:156:ASN:HD22	1.71	0.51
15:AP:96:GLN:O	15:AP:107:LYS:HD2	2.11	0.51
2:AA:1266:G:C4	18:AS:15:ARG:NH1	2.79	0.51
19:AT:14:ALA:HA	19:AT:17:ASP:OD2	2.11	0.51
19:AT:6:LYS:NZ	19:AT:62:LYS:H	2.08	0.51
20:AU:41:ARG:O	20:AU:112:LEU:CB	2.59	0.51
34:BA:1063:C:C4	34:BA:1064:G:N7	2.78	0.51
34:BA:1147:C:C4	34:BA:1148:U:C5	2.98	0.51
34:BA:1240:U:C6	42:BJ:32:ARG:NH2	2.78	0.51
34:BA:1278:U:H5'	34:BA:1279:A:O4'	2.10	0.51
34:BA:1343:G:N2	34:BA:1344:C:C2	2.78	0.51
34:BA:1360:A:N1	34:BA:1361:G:N2	2.59	0.51
34:BA:1371:G:OP1	44:BL:68:GLY:CA	2.58	0.51
34:BA:1464:G:C4	34:BA:1465:C:C5	2.99	0.51
34:BA:1512:U:C2	34:BA:1513:A:N7	2.79	0.51
34:BA:188:C:C2'	34:BA:189:G:H5'	2.41	0.51
34:BA:439:A:H3'	34:BA:440:A:H8	1.73	0.51
34:BA:463:A:C5	34:BA:474:G:C5	2.99	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:476:G:N2	34:BA:477:G:H1'	2.24	0.51
34:BA:489:C:N4	34:BA:490:G:O6	2.44	0.51
34:BA:548:G:H2'	34:BA:549:C:C6	2.45	0.51
34:BA:690:G:O6	34:BA:691:G:C2	2.64	0.51
34:BA:746:A:H8	34:BA:746:A:O5'	1.93	0.51
34:BA:818:G:C3'	34:BA:819:A:C5'	2.87	0.51
34:BA:865:A:H2'	34:BA:866:C:O4'	2.10	0.51
34:BA:886:G:H2'	34:BA:887:G:C8	2.36	0.51
34:BA:984:C:O2	34:BA:984:C:H2'	2.10	0.51
35:BB:32:C:H42	35:BB:33:U:H3	1.57	0.51
35:BC:34:G:H2'	35:BC:35:A:C5'	2.40	0.51
35:BC:36:A:C2'	35:BC:37:G:O5'	2.57	0.51
37:BE:169:LYS:C	37:BE:169:LYS:CD	2.79	0.51
38:BF:130:VAL:O	38:BF:134:ILE:CD1	2.57	0.51
38:BF:186:PHE:CD1	38:BF:187:ALA:N	2.79	0.51
39:BG:194:LEU:HD22	39:BG:194:LEU:N	2.25	0.51
40:BH:45:PHE:CG	40:BH:45:PHE:O	2.64	0.51
40:BH:51:VAL:CB	40:BH:52:PRO:HD3	2.32	0.51
40:BH:80:ILE:HD12	40:BH:80:ILE:H	1.74	0.51
41:BI:23:LYS:CE	41:BI:61:LEU:HD11	2.25	0.51
41:BI:81:ILE:CG2	41:BI:82:ARG:H	2.03	0.51
42:BJ:71:PRO:CG	42:BJ:96:GLN:HA	2.40	0.51
43:BK:114:THR:OG1	43:BK:116:LYS:HB2	2.11	0.51
44:BL:104:ARG:O	44:BL:105:ASP:OD2	2.28	0.51
44:BL:63:ILE:HD12	44:BL:63:ILE:N	2.25	0.51
49:BQ:48:ALA:O	49:BQ:50:LYS:N	2.43	0.51
51:BS:9:PHE:CZ	51:BS:18:ARG:HG3	2.46	0.51
52:BT:86:GLU:CD	52:BT:89:LEU:HD12	2.31	0.51
53:BU:53:ARG:HH11	53:BU:60:GLY:N	1.99	0.51
54:BV:45:VAL:HG22	54:BV:67:VAL:CG2	2.36	0.51
54:BV:4:SER:C	54:BV:5:LEU:HD23	2.31	0.51
54:BV:58:VAL:CG2	54:BV:58:VAL:O	2.59	0.51
10:AK:76:THR:HA	10:AK:142:LYS:HE2	1.91	0.51
2:AA:1508:A:H8	2:AA:1508:A:H3'	1.67	0.51
36:B1:26:C:H2'	36:B1:27:G:C8	2.46	0.51
2:AA:2108:C:H5''	2:AA:2109:U:C5	2.43	0.51
3:AC:194:ARG:HG3	3:AC:194:ARG:HH11	1.76	0.51
33:A9:12:ASP:O	33:A9:13:ASN:OD1	2.28	0.51
25:A1:98:ILE:HA	25:A1:101:ARG:CG	2.41	0.51
26:A2:20:ILE:CG2	26:A2:67:LYS:CD	2.88	0.51
27:A3:26:PHE:N	27:A3:60:PHE:CD1	2.78	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2354:G:H1'	27:A3:31:VAL:HG13	1.92	0.51
28:A4:21:VAL:CG1	28:A4:22:MET:N	2.63	0.51
2:AA:1364:G:OP1	28:A4:3:LYS:HG2	2.11	0.51
2:AA:397:G:H5'	28:A4:40:HIS:O	2.10	0.51
30:A6:11:LYS:HE2	30:A6:26:LYS:CE	2.36	0.51
2:AA:1613:G:OP1	31:A7:5:TYR:CD2	2.64	0.51
2:AA:105:C:H2'	2:AA:105:C:O2	2.11	0.51
2:AA:1068:G:C4	2:AA:1069:A:N6	2.79	0.51
2:AA:1169:G:N1	2:AA:1180:C:N4	2.34	0.51
2:AA:123:G:C2	2:AA:124:G:C4	2.98	0.51
2:AA:1310:G:C5	2:AA:1311:G:H1'	2.45	0.51
2:AA:1353:A:C6	2:AA:1354:A:C5	2.98	0.51
2:AA:1382:G:H2'	2:AA:1383:C:C6	2.45	0.51
2:AA:131:G:C2	2:AA:149:A:C6	2.99	0.51
2:AA:1576:U:C6	2:AA:1577:C:C2	2.99	0.51
2:AA:1591:G:C4	2:AA:1592:C:C4	2.98	0.51
2:AA:1591:G:C5	2:AA:1592:C:N4	2.78	0.51
2:AA:1603:A:N3	2:AA:1604:C:H5	2.08	0.51
2:AA:1274:A:OP1	2:AA:1646:C:N4	2.44	0.51
2:AA:1702:G:C6	2:AA:1703:G:C8	2.98	0.51
2:AA:1729:A:N7	2:AA:1731:G:O6	2.44	0.51
2:AA:1636:C:O3'	2:AA:1760:A:O2'	2.29	0.51
2:AA:1841:U:C2	2:AA:1842:G:N7	2.78	0.51
2:AA:1904:G:C2'	2:AA:1905:C:H5'	2.39	0.51
2:AA:1959:G:C4	2:AA:1960:A:C8	2.99	0.51
2:AA:677:A:H4'	2:AA:2070:G:O2'	2.11	0.51
2:AA:2074:U:H5''	2:AA:2075:U:P	2.50	0.51
2:AA:2089:U:H2'	2:AA:2090:G:C8	2.32	0.51
2:AA:2116:G:H2'	2:AA:2117:A:H5''	1.92	0.51
2:AA:2243:U:O2	2:AA:2244:U:N1	2.44	0.51
2:AA:2330:G:HO2'	2:AA:2331:G:H5'	1.75	0.51
2:AA:2358:G:C8	2:AA:2358:G:OP1	2.63	0.51
2:AA:2331:G:N2	2:AA:2385:C:C5	2.76	0.51
2:AA:242:G:C4	2:AA:254:G:C6	2.99	0.51
2:AA:2501:C:O2	2:AA:2501:C:O4'	2.21	0.51
2:AA:2506:U:H5''	2:AA:2506:U:H6	1.75	0.51
2:AA:2688:U:O4	2:AA:2719:G:C3'	2.49	0.51
2:AA:2701:C:H3'	2:AA:2702:U:H5''	1.93	0.51
2:AA:2717:G:H2'	2:AA:2718:G:H5''	1.93	0.51
2:AA:2757:A:C2'	2:AA:2758:A:O5'	2.58	0.51
2:AA:2633:G:H4'	2:AA:2812:G:OP1	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2817:G:C6	2:AA:2818:G:C5	2.98	0.51
2:AA:2886:G:C6	2:AA:2887:U:C4	2.99	0.51
2:AA:2893:G:C2'	2:AA:2893:G:N3	2.73	0.51
2:AA:304:G:H21	2:AA:305:U:H1'	1.74	0.51
2:AA:323:G:H5'	2:AA:324:A:OP1	2.10	0.51
2:AA:410:G:O2'	2:AA:411:G:OP2	2.27	0.51
2:AA:593:G:C6	2:AA:594:U:C4	2.99	0.51
2:AA:685:A:H2'	2:AA:686:G:OP2	2.10	0.51
2:AA:689:A:C5	2:AA:690:G:C8	2.98	0.51
2:AA:697:C:C2	2:AA:698:C:C5	2.99	0.51
2:AA:815:C:O2'	2:AA:816:C:C5'	2.56	0.51
2:AA:838:C:C2'	2:AA:839:U:O5'	2.58	0.51
2:AA:83:G:O6	2:AA:102:G:C2'	2.57	0.51
2:AA:973:A:O2'	2:AA:974:G:H5''	2.09	0.51
2:AA:976:C:H2'	2:AA:976:C:O2	2.11	0.51
2:AA:987:G:C6	2:AA:988:A:C8	2.98	0.51
3:AC:131:LEU:HD22	3:AC:136:LEU:HB2	1.93	0.51
3:AC:62:VAL:HG23	3:AC:195:ALA:HB2	1.93	0.51
4:AD:121:ALA:HA	4:AD:129:LEU:CD1	2.38	0.51
4:AD:186:LYS:C	4:AD:187:CYS:O	2.49	0.51
5:AE:107:GLU:OE2	5:AE:110:ARG:NH1	2.43	0.51
5:AE:242:ASN:N	5:AE:243:PRO:HD2	2.25	0.51
5:AE:63:GLU:OE1	5:AE:64:GLY:N	2.43	0.51
8:AH:122:ILE:C	8:AH:123:GLU:CD	2.69	0.51
11:AL:56:VAL:CG1	11:AL:57:VAL:N	2.74	0.51
9:AJ:89:LYS:CE	11:AL:59:THR:HB	2.39	0.51
11:AL:73:PRO:HG2	11:AL:78:LEU:CD1	2.40	0.51
12:AM:19:MET:CE	12:AM:22:VAL:HG21	2.41	0.51
12:AM:15:ARG:CG	12:AM:43:ARG:HD2	2.41	0.51
15:AP:28:ILE:CG1	15:AP:62:GLU:OE2	2.59	0.51
15:AP:47:GLU:CD	15:AP:47:GLU:N	2.64	0.51
16:AQ:14:ARG:O	16:AQ:14:ARG:HG2	2.10	0.51
16:AQ:24:LEU:O	16:AQ:25:ARG:C	2.48	0.51
16:AQ:63:SER:O	16:AQ:68:GLU:HG2	2.11	0.51
19:AT:56:ASN:ND2	19:AT:62:LYS:NZ	2.59	0.51
20:AU:6:LYS:HA	20:AU:9:LYS:HB2	1.92	0.51
23:AX:8:LEU:HD12	23:AX:9:VAL:N	2.26	0.51
34:BA:1000:U:N3	34:BA:1041:A:C2	2.74	0.51
34:BA:1117:G:O5'	44:BL:104:ARG:NH1	2.44	0.51
34:BA:115:G:H4'	34:BA:116:A:O5'	2.10	0.51
34:BA:1052:U:N3	34:BA:1207:G:N1	2.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1284:C:C2	34:BA:1285:A:N7	2.79	0.51
34:BA:145:G:C6	34:BA:178:C:N4	2.79	0.51
34:BA:1483:A:C3'	34:BA:1484:C:C5'	2.89	0.51
34:BA:1508:G:H1	34:BA:1527:C:N4	2.08	0.51
34:BA:153:C:C2	34:BA:154:C:C5	2.99	0.51
34:BA:15:G:N3	34:BA:16:A:N7	2.57	0.51
34:BA:265:G:C2	34:BA:267:C:O4'	2.63	0.51
34:BA:313:A:C5	34:BA:314:C:N4	2.79	0.51
34:BA:386:C:O2'	34:BA:387:U:H5'	2.11	0.51
34:BA:39:G:H2'	34:BA:40:C:O5'	2.11	0.51
34:BA:648:A:C6	34:BA:649:G:N7	2.78	0.51
34:BA:962:C:O2	34:BA:1201:A:C2	2.64	0.51
34:BA:964:A:C2	34:BA:969:A:C1'	2.87	0.51
34:BA:979:C:N4	49:BQ:18:VAL:O	2.43	0.51
35:BB:54:U:H6	35:BB:54:U:C5'	2.24	0.51
35:BB:64:A:N6	35:BB:65:G:O6	2.43	0.51
35:BC:35:A:N1	36:B1:61:U:O4	2.43	0.51
35:BC:59:U:O2	35:BC:59:U:H2'	2.11	0.51
35:BC:72:C:C4	35:BC:73:A:N6	2.79	0.51
37:BE:69:LEU:CG	37:BE:162:ILE:HG22	2.41	0.51
37:BE:211:ILE:CG2	37:BE:212:GLN:N	2.71	0.51
37:BE:212:GLN:HE22	37:BE:216:SER:N	2.09	0.51
37:BE:54:THR:O	37:BE:58:ILE:CG1	2.43	0.51
37:BE:91:PRO:HA	37:BE:152:PHE:O	2.09	0.51
34:BA:421:U:O2	38:BF:127:ARG:NE	2.44	0.51
38:BF:58:GLU:N	38:BF:65:ALA:HB3	2.24	0.51
38:BF:83:ARG:C	38:BF:85:ARG:N	2.62	0.51
39:BG:157:LEU:O	39:BG:160:GLN:N	2.43	0.51
39:BG:54:TYR:C	39:BG:56:VAL:N	2.61	0.51
40:BH:37:ARG:O	40:BH:38:GLN:HG3	2.11	0.51
41:BI:8:ILE:CG2	41:BI:87:ARG:O	2.58	0.51
42:BJ:123:GLU:O	42:BJ:124:LEU:C	2.47	0.51
42:BJ:15:ASP:OD1	42:BJ:17:VAL:CA	2.59	0.51
43:BK:45:ILE:HD11	43:BK:48:TYR:HB3	1.91	0.51
44:BL:101:PHE:H	44:BL:102:LEU:HD23	1.75	0.51
44:BL:16:ARG:HB3	44:BL:64:THR:HB	1.92	0.51
45:BM:7:LYS:HZ3	45:BM:71:LEU:HD21	1.76	0.51
34:BA:706:A:O4'	46:BN:29:ILE:HD12	2.09	0.51
47:BO:28:LYS:C	47:BO:30:ALA:H	2.11	0.51
47:BO:76:ASN:ND2	47:BO:77:LEU:N	2.58	0.51
48:BP:47:ASP:OD1	48:BP:47:ASP:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:81:LEU:HD21	48:BP:88:ARG:HE	1.74	0.51
48:BP:91:ARG:HD2	48:BP:97:PRO:O	2.10	0.51
51:BS:49:LEU:HD21	51:BS:51:VAL:HG23	1.93	0.51
52:BT:74:LEU:HD13	52:BT:75:ARG:CB	2.30	0.51
55:BW:13:LEU:HB2	55:BW:17:ARG:HH21	1.75	0.51
55:BW:28:ALA:O	55:BW:31:SER:OG	2.19	0.51
10:AK:111:ASP:OD1	10:AK:114:LYS:N	2.44	0.51
37:BE:140:HIS:ND1	37:BE:143:GLU:HG3	2.24	0.51
23:AX:1:MET:N	23:AX:2:PRO:CD	2.74	0.51
2:AA:257:A:H3'	2:AA:257:A:C8	2.44	0.51
2:AA:1156:A:OP1	25:A1:55:ARG:CZ	2.59	0.51
26:A2:14:VAL:CG1	26:A2:15:SER:N	2.68	0.51
26:A2:35:LEU:O	26:A2:60:VAL:HG13	2.11	0.51
30:A6:42:PRO:HB2	30:A6:44:ALA:CB	2.39	0.51
2:AA:1379:A:H61	31:A7:10:ARG:NH1	2.08	0.51
2:AA:1011:G:O2'	2:AA:1013:C:C4'	2.59	0.51
2:AA:1091:G:N1	2:AA:1101:U:N3	2.58	0.51
2:AA:1105:U:O2'	9:AI:27:ASP:C	2.49	0.51
2:AA:1166:C:C2	2:AA:1184:G:N2	2.77	0.51
2:AA:51:G:O2'	2:AA:118:A:N6	2.42	0.51
2:AA:1196:C:O4'	2:AA:1226:G:C2	2.63	0.51
2:AA:1197:G:C5	2:AA:1198:U:C5	2.98	0.51
2:AA:10:G:O2'	2:AA:11:G:C5'	2.58	0.51
2:AA:121:G:C2'	2:AA:122:G:O5'	2.59	0.51
2:AA:1248:G:OP1	25:A1:2:PRO:HA	2.11	0.51
2:AA:1272:A:C2	2:AA:1618:A:C2	2.99	0.51
2:AA:1322:A:C2'	2:AA:1323:U:C5'	2.84	0.51
2:AA:1348:G:O2'	2:AA:1349:A:C5'	2.58	0.51
2:AA:134:C:O2	2:AA:146:G:N2	2.43	0.51
2:AA:1429:G:C5	2:AA:1430:C:C4	2.99	0.51
2:AA:1582:C:N1	2:AA:1583:A:H1'	2.25	0.51
2:AA:750:A:H4'	2:AA:1617:C:O2	2.11	0.51
2:AA:1642:G:C2	2:AA:1643:G:C8	2.99	0.51
2:AA:1794:U:C4	2:AA:1825:A:N6	2.79	0.51
2:AA:1995:U:C5	2:AA:1996:C:C4	2.99	0.51
2:AA:2013:A:N6	2:AA:2014:A:C2	2.79	0.51
2:AA:2116:G:OP2	3:AC:126:LYS:HB3	2.09	0.51
2:AA:2294:C:N3	2:AA:2295:C:C5	2.78	0.51
2:AA:2300:G:C2	2:AA:2301:C:C2	2.99	0.51
2:AA:248:G:N2	2:AA:2431:U:C5'	2.74	0.51
2:AA:2067:G:N2	2:AA:2443:C:C2	2.71	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:247:G:O6	32:A8:11:LYS:NZ	2.44	0.51
2:AA:2488:A:N6	2:AA:2489:G:C6	2.79	0.51
2:AA:2511:U:C4	2:AA:2512:C:C4	2.99	0.51
2:AA:25:U:C2	2:AA:515:A:N1	2.77	0.51
2:AA:2606:C:C2'	2:AA:2607:G:O5'	2.58	0.51
2:AA:2697:G:O2'	2:AA:2698:U:O5'	2.29	0.51
2:AA:2714:G:C8	2:AA:2714:G:H5''	2.44	0.51
2:AA:2738:A:C2	2:AA:2739:U:O2	2.63	0.51
2:AA:2742:C:H2'	2:AA:2742:C:O2	2.09	0.51
2:AA:2745:C:N4	2:AA:2759:G:H1	2.04	0.51
2:AA:2830:G:C2	2:AA:2883:A:C2	2.98	0.51
2:AA:299:A:C2	2:AA:322:A:N6	2.78	0.51
2:AA:319:C:H2'	2:AA:320:A:H8	1.76	0.51
2:AA:361:G:H2'	2:AA:362:U:C5	2.43	0.51
2:AA:470:A:N3	2:AA:471:A:H1'	2.24	0.51
2:AA:641:C:C5	2:AA:642:G:N3	2.79	0.51
2:AA:673:C:H5'	6:AF:82:GLN:HE22	1.75	0.51
2:AA:830:G:C8	2:AA:2448:A:C8	2.98	0.51
2:AA:842:G:C6	2:AA:843:G:C6	2.99	0.51
2:AA:90:U:OP1	2:AA:90:U:C6	2.64	0.51
2:AA:961:C:HO2'	2:AA:962:G:P	2.33	0.51
3:AC:193:ILE:CG2	3:AC:226:PRO:HB2	2.41	0.51
2:AA:1799:G:N2	4:AD:153:LEU:HD11	2.24	0.51
4:AD:132:GLU:HB2	4:AD:186:LYS:HA	1.93	0.51
2:AA:1568:G:P	4:AD:60:GLN:CA	2.98	0.51
5:AE:105:HIS:ND1	5:AE:108:LEU:CG	2.73	0.51
5:AE:99:VAL:HG12	5:AE:100:TRP:N	2.26	0.51
6:AF:103:ASN:O	6:AF:106:GLU:HB2	2.11	0.51
6:AF:202:THR:HG22	6:AF:203:ALA:H	1.75	0.51
6:AF:206:ASN:HA	6:AF:210:ALA:HB2	1.92	0.51
2:AA:442:G:C4'	6:AF:44:GLN:OE1	2.49	0.51
6:AF:5:ILE:CG1	6:AF:16:VAL:HG23	2.40	0.51
6:AF:85:LYS:N	6:AF:85:LYS:HD2	2.25	0.51
7:AG:103:ASN:CA	7:AG:104:PHE:CE1	2.94	0.51
7:AG:56:ARG:HD2	7:AG:65:GLU:CG	2.41	0.51
8:AH:93:TYR:CE2	8:AH:106:VAL:HG13	2.43	0.51
8:AH:102:LEU:HD21	8:AH:114:ILE:CG2	2.40	0.51
8:AH:124:VAL:O	8:AH:124:VAL:HG13	2.11	0.51
8:AH:86:LEU:HD22	8:AH:87:GLU:N	2.25	0.51
2:AA:1055:G:N2	9:AI:28:LYS:HB3	2.26	0.51
10:AK:21:VAL:C	10:AK:26:ALA:HB2	2.31	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:105:GLU:O	13:AN:106:LEU:C	2.49	0.51
13:AN:19:VAL:HG13	13:AN:42:THR:CA	2.40	0.51
13:AN:1:MET:O	13:AN:33:ALA:HB3	2.10	0.51
15:AP:48:ASN:ND2	15:AP:122:PHE:CG	2.77	0.51
16:AQ:97:VAL:HG12	16:AQ:98:GLU:H	1.75	0.51
17:AR:53:ASP:HA	17:AR:56:ARG:CG	2.28	0.51
18:AS:59:VAL:HG21	18:AS:66:GLU:H	1.75	0.51
20:AU:31:LEU:CD2	20:AU:113:GLU:OE2	2.59	0.51
21:AV:13:LYS:HZ1	21:AV:33:ALA:CA	1.99	0.51
21:AV:15:ASP:O	21:AV:36:ARG:NH2	2.34	0.51
21:AV:42:ALA:C	21:AV:44:ARG:N	2.56	0.51
21:AV:78:PRO:O	21:AV:79:ILE:CG1	2.58	0.51
36:B1:69:A:H2'	36:B1:69:A:N3	2.26	0.51
34:BA:1087:G:N3	34:BA:1088:G:C8	2.79	0.51
34:BA:113:G:H2'	34:BA:114:U:C6	2.40	0.51
34:BA:1159:U:C5'	34:BA:1160:G:OP1	2.48	0.51
34:BA:1163:C:C4	34:BA:1174:G:N1	2.78	0.51
34:BA:1182:G:H5'	34:BA:1184:G:H5'	1.92	0.51
34:BA:1197:G:OP1	34:BA:1197:G:H3'	2.09	0.51
34:BA:1294:G:H2'	34:BA:1295:G:C8	2.46	0.51
34:BA:1343:G:H2'	34:BA:1344:C:H6	1.74	0.51
34:BA:1376:U:O2	34:BA:1377:A:N7	2.44	0.51
34:BA:1378:C:N3	34:BA:1379:G:O4'	2.43	0.51
34:BA:1415:G:C6	34:BA:1486:G:C6	2.99	0.51
34:BA:142:G:H2'	34:BA:143:A:H8	1.74	0.51
34:BA:1451:A:C5'	34:BA:1452:C:C5	2.87	0.51
34:BA:1412:C:N4	34:BA:1488:G:H1	2.05	0.51
34:BA:148:G:C2	34:BA:175:C:N3	2.79	0.51
34:BA:290:C:O5'	34:BA:290:C:H6	1.92	0.51
34:BA:318:G:C2'	34:BA:319:G:C5'	2.89	0.51
34:BA:46:G:C2	34:BA:366:C:C2	2.99	0.51
34:BA:395:C:O2	34:BA:396:G:C8	2.64	0.51
34:BA:38:G:C4	34:BA:397:A:N1	2.79	0.51
34:BA:495:U:O2	34:BA:495:U:C2'	2.54	0.51
34:BA:55:A:H2'	34:BA:56:U:C6	2.40	0.51
34:BA:562:C:O2	34:BA:562:C:C2'	2.59	0.51
34:BA:582:U:C2	34:BA:583:A:C8	2.99	0.51
34:BA:61:G:C5	34:BA:62:U:C4	2.98	0.51
34:BA:60:A:O2'	34:BA:61:G:P	2.69	0.51
34:BA:69:G:H1	34:BA:99:C:N4	2.09	0.51
34:BA:712:A:O2'	34:BA:713:G:C5'	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:742:G:C2'	34:BA:743:U:H5'	2.41	0.51
34:BA:888:G:H3'	34:BA:889:A:H8	1.75	0.51
34:BA:901:A:H2'	34:BA:902:G:O5'	2.11	0.51
34:BA:962:C:C4	34:BA:963:G:C5	2.99	0.51
35:BB:59:U:H2'	35:BB:59:U:O2	2.11	0.51
35:BC:1:G:C2	35:BC:2:C:C6	2.98	0.51
35:BC:5:A:H2'	35:BC:6:U:O5'	2.10	0.51
37:BE:25:ASN:ND2	37:BE:27:LYS:H	2.09	0.51
37:BE:63:MET:HG2	37:BE:64:ARG:H	1.75	0.51
39:BG:148:VAL:CG2	39:BG:181:MET:HE2	2.41	0.51
39:BG:80:GLU:O	39:BG:83:SER:N	2.44	0.51
40:BH:109:ILE:HG23	40:BH:110:LEU:HD23	1.93	0.51
40:BH:45:PHE:CE1	40:BH:47:LYS:CE	2.93	0.51
42:BJ:10:ARG:CG	42:BJ:10:ARG:NH1	2.72	0.51
42:BJ:126:ASP:HA	42:BJ:129:GLU:HB2	1.93	0.51
43:BK:49:GLU:OE1	43:BK:60:ARG:HB3	2.11	0.51
43:BK:46:LYS:CB	43:BK:63:LEU:O	2.55	0.51
44:BL:3:GLN:HA	44:BL:20:ARG:HG2	1.91	0.51
46:BN:122:LYS:O	46:BN:123:LYS:C	2.49	0.51
46:BN:26:ASN:O	46:BN:27:ASN:CB	2.59	0.51
46:BN:66:LEU:CD2	46:BN:97:ALA:HB1	2.41	0.51
47:BO:97:ARG:HD2	47:BO:98:TYR:HE1	1.74	0.51
48:BP:16:ASP:CA	48:BP:19:LEU:HG	2.38	0.51
49:BQ:23:ARG:HD3	49:BQ:28:GLY:O	2.11	0.51
51:BS:3:LYS:O	51:BS:21:VAL:HA	2.11	0.51
53:BU:52:PRO:O	53:BU:53:ARG:C	2.49	0.51
55:BW:53:LEU:HD21	55:BW:92:LEU:HD11	1.93	0.51
56:BX:6:ARG:O	56:BX:12:LYS:HE2	2.11	0.51
35:BB:22:G:N3	35:BB:23:A:N7	2.58	0.51
47:BO:126:LYS:NZ	47:BO:128:ALA:CB	2.58	0.51
38:BF:192:THR:O	38:BF:192:THR:HG22	2.11	0.51
24:A0:85:PRO:O	24:A0:86:ARG:C	2.48	0.51
25:A1:108:ALA:O	25:A1:109:LEU:C	2.49	0.51
25:A1:10:ARG:CA	25:A1:13:ARG:HH12	2.23	0.51
25:A1:57:PHE:CD2	25:A1:60:LEU:HD13	2.46	0.51
26:A2:21:ARG:HB2	26:A2:95:ILE:HD13	1.92	0.51
26:A2:49:GLU:N	26:A2:49:GLU:CD	2.64	0.51
26:A2:70:TYR:O	26:A2:71:ILE:O	2.28	0.51
29:A5:23:HIS:ND1	29:A5:23:HIS:N	2.59	0.51
29:A5:34:PRO:HD2	29:A5:35:GLN:H	1.75	0.51
2:AA:1022:G:H5"	12:AM:56:LYS:HZ3	1.73	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1129:A:N1	2:AA:2570:G:C1'	2.73	0.51
2:AA:1176:G:H2'	2:AA:1177:A:H5'	1.92	0.51
2:AA:1259:G:C5	2:AA:1260:G:N7	2.79	0.51
2:AA:1268:A:N9	2:AA:2013:A:N6	2.58	0.51
2:AA:1339:G:O4'	2:AA:1393:A:C2	2.64	0.51
2:AA:137(A):G:C4'	2:AA:137(A):G:N3	2.73	0.51
2:AA:1395:A:O2'	2:AA:1397:U:C5	2.64	0.51
2:AA:1480:G:N1	2:AA:1513:C:C2	2.79	0.51
2:AA:1535:U:O4'	2:AA:1538:G:N2	2.31	0.51
2:AA:1429:G:C2	2:AA:1568:G:N1	2.79	0.51
2:AA:161:U:C6	2:AA:161:U:P	3.04	0.51
2:AA:1703:G:O2'	34:BA:1429:C:C4'	2.44	0.51
2:AA:1814:G:N2	2:AA:1815:A:H62	2.08	0.51
2:AA:1856:G:H2'	2:AA:1857:G:O5'	2.11	0.51
2:AA:1892:C:N3	2:AA:1893:C:C5	2.79	0.51
2:AA:1914:C:C2'	2:AA:1914:C:O2	2.58	0.51
2:AA:1951:U:O2	2:AA:1953:A:O5'	2.29	0.51
2:AA:1956:U:C3'	2:AA:1956:U:O2	2.58	0.51
2:AA:1995:U:C6	2:AA:1995:U:C3'	2.94	0.51
2:AA:2007:C:C2'	2:AA:2008:C:H5'	2.37	0.51
2:AA:2123:G:O2'	3:AC:133:PRO:CA	2.57	0.51
2:AA:2327:A:O2'	2:AA:2328:A:O4'	2.22	0.51
2:AA:2349:G:C2'	2:AA:2350:C:H5''	2.41	0.51
2:AA:830:G:N9	2:AA:2448:A:N7	2.58	0.51
2:AA:2492:U:H2'	2:AA:2492:U:O2	2.11	0.51
2:AA:2523:G:O4'	2:AA:2765:A:N7	2.44	0.51
2:AA:2532:G:N2	2:AA:2662:A:C6	2.79	0.51
2:AA:2573:C:H6	2:AA:2573:C:C3'	2.18	0.51
2:AA:2619:C:C5'	5:AE:247:ARG:O	2.59	0.51
2:AA:2666:C:C3'	2:AA:2667:C:H5'	2.40	0.51
2:AA:2690:C:O5'	2:AA:2690:C:C6	2.53	0.51
2:AA:270(J):G:H2'	2:AA:270(J):G:N3	2.25	0.51
2:AA:1754:C:C4	2:AA:2717:G:H5'	2.46	0.51
2:AA:2856:C:N4	2:AA:2862:G:H1	2.08	0.51
2:AA:288:C:N4	2:AA:289:A:H1'	2.26	0.51
2:AA:311:A:C2'	2:AA:311:A:N3	2.71	0.51
2:AA:332:A:N7	2:AA:335:C:C4	2.79	0.51
2:AA:270:A:N6	2:AA:370:G:C8	2.79	0.51
2:AA:425:G:C2	2:AA:426:C:C5	2.98	0.51
2:AA:440:G:H3'	20:AU:3:GLN:HE21	1.75	0.51
2:AA:529:A:O2'	2:AA:530:G:P	2.69	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:542:C:N4	2:AA:552:G:H1	2.08	0.51
2:AA:587:C:O2'	2:AA:588:U:OP1	2.27	0.51
2:AA:612:G:N2	2:AA:617:G:C6	2.79	0.51
2:AA:636:G:H2'	14:AO:109:LEU:CD2	2.41	0.51
2:AA:6:A:H4'	12:AM:4:ALA:O	2.11	0.51
2:AA:906:G:N2	2:AA:907:U:C1'	2.74	0.51
2:AA:969:U:N3	2:AA:970:C:C5	2.79	0.51
1:AB:105:G:H2'	1:AB:106:G:H8	1.76	0.51
3:AC:131:LEU:CD2	3:AC:136:LEU:HB2	2.40	0.51
3:AC:62:VAL:CG1	3:AC:163:PHE:HD2	2.24	0.51
3:AC:163:PHE:HE1	3:AC:199:HIS:CD2	2.29	0.51
4:AD:129:LEU:HD23	4:AD:133:ASN:HD22	1.75	0.51
2:AA:2218:G:O2'	4:AD:146:LYS:HD2	2.11	0.51
5:AE:196:GLY:CA	5:AE:268:LEU:O	2.36	0.51
5:AE:317:PRO:C	5:AE:320:GLN:HG3	2.30	0.51
6:AF:107:ARG:O	6:AF:110:ALA:CB	2.57	0.51
6:AF:219:ASN:H	6:AF:222:ASP:HB2	1.76	0.51
6:AF:241:ALA:O	6:AF:244:ALA:CB	2.57	0.51
6:AF:51:TYR:O	6:AF:55:ARG:HG2	2.11	0.51
6:AF:55:ARG:HG3	6:AF:56:THR:OG1	2.11	0.51
8:AH:10:ILE:CG2	8:AH:14:VAL:HG11	2.40	0.51
8:AH:112:VAL:HB	8:AH:151:ARG:CZ	2.41	0.51
8:AH:145:ALA:O	8:AH:148:ARG:N	2.44	0.51
10:AK:29:PHE:CE2	10:AK:30:LEU:HD11	2.45	0.51
11:AL:104:GLN:O	11:AL:107:GLU:CG	2.54	0.51
11:AL:96:ILE:HD13	11:AL:138:GLU:OE2	2.10	0.51
11:AL:24:VAL:HG12	11:AL:35:ILE:CG2	2.34	0.51
11:AL:77:PHE:CD2	11:AL:80:LYS:NZ	2.76	0.51
11:AL:99:LYS:HD2	11:AL:99:LYS:N	2.25	0.51
12:AM:10:VAL:CB	12:AM:36:VAL:HG22	2.40	0.51
13:AN:121:VAL:C	13:AN:122:ILE:CD1	2.79	0.51
13:AN:31:ARG:C	13:AN:32:TYR:CG	2.84	0.51
13:AN:9:LYS:CD	13:AN:9:LYS:N	2.74	0.51
15:AP:41:THR:O	21:AV:116:VAL:CG1	2.55	0.51
15:AP:69:ASN:CG	15:AP:70:ARG:N	2.64	0.51
20:AU:33:GLU:OE1	20:AU:34:GLU:HG3	2.11	0.51
20:AU:51:LEU:HD22	20:AU:52:ARG:HG3	1.92	0.51
20:AU:77:VAL:HG11	20:AU:91:LEU:HD22	1.92	0.51
21:AV:37:LYS:C	21:AV:40:ASP:OD1	2.49	0.51
23:AX:33:GLN:OE1	23:AX:34:GLU:N	2.44	0.51
34:BA:1001:A:N1	34:BA:1040:U:C4	2.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1060:C:H5''	45:BM:51:ARG:HD3	1.91	0.51
34:BA:1112:C:O5'	34:BA:1112:C:H6	1.93	0.51
34:BA:1169:A:H2'	34:BA:1171:G:H5'	1.92	0.51
34:BA:1392:G:N2	34:BA:1502:A:H8	2.08	0.51
34:BA:1401:G:N7	34:BA:1402:C:C5	2.78	0.51
34:BA:1492:A:N7	34:BA:1493:A:N3	2.59	0.51
34:BA:1539:C:H2'	34:BA:1540:U:C5'	2.38	0.51
34:BA:245:C:C2	34:BA:284:G:N1	2.78	0.51
34:BA:254:G:N2	52:BT:16:GLN:NE2	2.59	0.51
34:BA:264:U:O2'	52:BT:63:ARG:CG	2.59	0.51
34:BA:308:C:H2'	34:BA:308:C:O2	2.11	0.51
34:BA:360:A:N1	34:BA:361:G:C2	2.79	0.51
34:BA:406:G:N2	34:BA:407:G:C5	2.79	0.51
34:BA:483:C:N4	34:BA:484:G:C2	2.79	0.51
34:BA:538:G:OP2	47:BO:115:LYS:CB	2.55	0.51
34:BA:593:G:H2'	34:BA:594:G:C5'	2.40	0.51
34:BA:61:G:C5	34:BA:62:U:N3	2.79	0.51
34:BA:761:G:H5''	52:BT:102:GLY:C	2.28	0.51
34:BA:913:A:H4'	34:BA:914:A:O5'	2.11	0.51
34:BA:965:A:O2'	34:BA:966:G:O5'	2.16	0.51
34:BA:96:G:C2	34:BA:97:G:C4	2.99	0.51
35:BB:5:A:N6	35:BB:68:U:H3	2.09	0.51
35:BC:44:A:N1	35:BC:45:G:C2	2.79	0.51
35:BC:47:U:O4	35:BC:49:C:H4'	2.10	0.51
35:BC:71:G:H2'	35:BC:72:C:C5'	2.38	0.51
37:BE:103:THR:O	37:BE:104:ASN:CB	2.59	0.51
37:BE:16:HIS:HA	37:BE:204:ASN:CB	2.41	0.51
37:BE:59:GLU:CA	37:BE:221:LEU:HD11	2.38	0.51
37:BE:44:LEU:O	37:BE:47:THR:HB	2.09	0.51
37:BE:74:LYS:CG	37:BE:76:GLN:HB2	2.40	0.51
38:BF:164:ARG:HG3	38:BF:164:ARG:NH1	2.26	0.51
38:BF:95:THR:OG1	38:BF:95:THR:O	2.27	0.51
39:BG:100:ARG:HG2	39:BG:100:ARG:HH11	1.76	0.51
39:BG:157:LEU:O	39:BG:158:ILE:C	2.49	0.51
39:BG:4:TYR:CG	39:BG:5:ILE:N	2.78	0.51
41:BI:24:GLU:HG3	41:BI:25:ILE:N	2.25	0.51
41:BI:26:ILE:HG22	41:BI:30:LEU:CD1	2.38	0.51
42:BJ:69:VAL:CB	42:BJ:104:LEU:HD21	2.40	0.51
43:BK:102:ARG:O	43:BK:106:GLY:N	2.43	0.51
44:BL:15:ALA:CB	44:BL:76:ALA:CB	2.89	0.51
45:BM:50:ILE:HG22	45:BM:51:ARG:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:54:ARG:NH1	46:BN:54:ARG:CG	2.68	0.51
34:BA:538:G:OP1	47:BO:113:ARG:CD	2.59	0.51
47:BO:79:GLU:CB	47:BO:80:HIS:ND1	2.74	0.51
48:BP:22:ILE:HB	48:BP:25:ILE:CD1	2.41	0.51
48:BP:42:ALA:O	48:BP:44:ARG:N	2.42	0.51
48:BP:48:LEU:C	48:BP:48:LEU:CD2	2.79	0.51
48:BP:92:HIS:CD2	48:BP:98:VAL:HG21	2.44	0.51
50:BR:67:LEU:HB3	50:BR:78:TYR:HE1	1.76	0.51
51:BS:25:ARG:O	51:BS:26:ARG:C	2.49	0.51
52:BT:29:HIS:HB3	52:BT:32:TYR:H	1.76	0.51
53:BU:37:VAL:HG12	53:BU:41:LYS:HD2	1.91	0.51
8:AH:168:VAL:O	8:AH:169:ARG:NE	2.44	0.51
37:BE:28:PHE:CE1	37:BE:31:TYR:C	2.84	0.51
1:AB:14:U:O2'	1:AB:107:U:O2'	2.20	0.51
47:BO:91:LYS:O	47:BO:91:LYS:HD2	2.10	0.51
24:A0:105:ARG:NE	24:A0:105:ARG:HA	2.25	0.51
2:AA:1294:U:HO2'	24:A0:26:LYS:HD2	1.75	0.51
24:A0:55:ALA:HB2	24:A0:79:LEU:HD11	1.93	0.51
26:A2:61:VAL:HA	26:A2:98:ILE:CG1	2.33	0.51
28:A4:18:GLY:H	28:A4:33:VAL:CB	2.24	0.51
29:A5:11:THR:CG2	29:A5:16:ARG:HG2	2.41	0.51
29:A5:6:VAL:HG13	29:A5:7:PRO:HD2	1.93	0.51
2:AA:1025:G:H8	2:AA:1134:G:C2'	2.24	0.51
2:AA:1063:G:C4	2:AA:1064:C:C5	2.98	0.51
2:AA:1020:A:H2	2:AA:1141:U:OP2	1.93	0.51
2:AA:840:C:H4'	2:AA:1192:G:C1'	2.41	0.51
2:AA:123:G:N1	2:AA:124:G:C2	2.79	0.51
2:AA:1450:C:H2'	2:AA:1451:C:H4'	1.92	0.51
2:AA:1479:G:C6	2:AA:1514:U:N3	2.77	0.51
2:AA:1492:G:C2	2:AA:1493:C:C4	2.98	0.51
2:AA:1527:G:C2	2:AA:1544:C:N3	2.75	0.51
2:AA:1422:G:N2	2:AA:1576:U:C2	2.79	0.51
2:AA:1591:G:C2	2:AA:1592:C:C2	2.99	0.51
2:AA:1634:A:H3'	2:AA:1634:A:C8	2.46	0.51
2:AA:1668:A:N6	2:AA:1674:G:C2	2.79	0.51
2:AA:1668:A:N3	2:AA:1670:C:C4	2.79	0.51
2:AA:1780:A:P	2:AA:1782:C:P	3.09	0.51
2:AA:1793:C:C2	2:AA:1794:U:C6	2.99	0.51
2:AA:1841:U:O4	2:AA:1842:G:O6	2.29	0.51
2:AA:184:C:C2	2:AA:185:U:C5	2.99	0.51
2:AA:1857:G:C6	2:AA:1884:A:N6	2.79	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1935:G:N3	2:AA:1962:C:C4	2.79	0.51
2:AA:1951:U:C2	2:AA:1953:A:C5'	2.94	0.51
2:AA:2015:A:H8	2:AA:2016:U:C5	2.28	0.51
2:AA:2043:C:C5	2:AA:2777:G:C1'	2.80	0.51
2:AA:2063:C:C2'	2:AA:2064:C:O5'	2.59	0.51
2:AA:2278:A:C6	2:AA:2279:G:C5	2.99	0.51
2:AA:2454:G:H2'	2:AA:2455:G:H5'	1.93	0.51
2:AA:2460:U:H2'	2:AA:2461:C:C6	2.46	0.51
2:AA:783:A:O3'	2:AA:2589:A:P	2.69	0.51
2:AA:270(Z):U:C4'	2:AA:270(Z):U:OP1	2.58	0.51
2:AA:2713:A:C3'	2:AA:2714:G:C5'	2.88	0.51
2:AA:2627:G:O2'	2:AA:2781:A:C2	2.59	0.51
2:AA:2628:C:C1'	2:AA:2781:A:H2'	2.40	0.51
2:AA:2834:G:C6	2:AA:2879:C:C2	2.99	0.51
2:AA:2885:C:O2	2:AA:2885:C:H2'	2.10	0.51
2:AA:330:A:H4'	2:AA:1210:A:N6	2.25	0.51
2:AA:295:G:C2	2:AA:344:G:C2	2.92	0.51
2:AA:371:A:HO2'	2:AA:372:G:P	2.30	0.51
2:AA:388:G:H5'	2:AA:389:G:OP2	2.11	0.51
2:AA:464:U:C4	2:AA:465:G:N7	2.79	0.51
2:AA:465:G:C5	2:AA:466:A:C6	2.99	0.51
2:AA:627:A:HO2'	2:AA:628:G:C4'	2.24	0.51
2:AA:721:C:C2	2:AA:722:A:N7	2.79	0.51
2:AA:826:U:N3	2:AA:832:G:N1	2.58	0.51
2:AA:862:G:N2	2:AA:863:A:H1'	2.26	0.51
2:AA:871:U:H2'	2:AA:872:A:C8	2.46	0.51
2:AA:899:A:N6	2:AA:900:A:C6	2.79	0.51
2:AA:975:G:C6	2:AA:976:C:C5	2.99	0.51
1:AB:33:G:H2'	1:AB:34:U:C5	2.41	0.51
1:AB:85:G:C2	1:AB:92:G:N3	2.79	0.51
3:AC:214:VAL:HG23	3:AC:224:ILE:CD1	2.41	0.51
3:AC:19:ILE:CG2	3:AC:225:ASN:HB2	2.41	0.51
3:AC:5:LYS:O	3:AC:6:ARG:CG	2.59	0.51
4:AD:167:GLU:HG2	4:AD:182:MET:HE3	1.88	0.51
4:AD:213:LYS:CG	4:AD:215:LYS:HB2	2.40	0.51
2:AA:783:A:C5'	4:AD:230:ASN:ND2	2.74	0.51
4:AD:65:ASP:CG	4:AD:66:PHE:N	2.63	0.51
5:AE:41:PHE:CD1	5:AE:193:PHE:CE1	2.99	0.51
6:AF:36:ARG:O	6:AF:38:ALA:N	2.44	0.51
2:AA:2305:A:H1'	7:AG:129:ASP:OD1	2.10	0.51
8:AH:10:ILE:HG23	8:AH:14:VAL:HB	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:153:PRO:HA	8:AH:160:GLY:HA3	1.93	0.51
9:AJ:71:ILE:CG1	11:AL:62:GLU:N	2.71	0.51
10:AK:6:LEU:CD2	10:AK:14:LYS:NZ	2.74	0.51
11:AL:116:LEU:HD13	11:AL:116:LEU:C	2.31	0.51
12:AM:139:LEU:N	12:AM:139:LEU:HD13	2.26	0.51
13:AN:34:ASN:C	13:AN:35:ILE:HD12	2.31	0.51
18:AS:23:LEU:HD12	29:A5:25:LEU:C	2.30	0.51
21:AV:16:GLU:H	21:AV:36:ARG:HH12	1.53	0.51
22:AW:9:ARG:CZ	22:AW:59:ILE:CG1	2.89	0.51
23:AX:5:LYS:CB	23:AX:36:VAL:HG12	2.41	0.51
34:BA:106:C:O2'	34:BA:107:G:H5'	2.11	0.51
34:BA:10:A:O2'	34:BA:11:G:C5'	2.59	0.51
34:BA:1261:A:H3'	34:BA:1262:C:C6	2.45	0.51
34:BA:1280:A:C8	45:BM:41:PRO:CD	2.94	0.51
34:BA:1298:C:H1'	34:BA:1299:A:C2	2.46	0.51
34:BA:1520:G:O2'	34:BA:1521:G:O5'	2.29	0.51
34:BA:194:C:C3'	34:BA:195:A:H5''	2.41	0.51
34:BA:20:U:O2	34:BA:21:G:C4	2.64	0.51
34:BA:280:C:O2'	52:BT:38:ARG:HD3	2.10	0.51
34:BA:316:G:N3	34:BA:317:G:C8	2.79	0.51
34:BA:327:A:O3'	34:BA:328:C:O4'	2.29	0.51
34:BA:361:G:O6	34:BA:362:G:N1	2.43	0.51
34:BA:616:G:N1	34:BA:617:G:N7	2.59	0.51
34:BA:665:A:O4'	34:BA:733:A:H1'	2.11	0.51
34:BA:687:A:N7	34:BA:701:C:C4	2.79	0.51
34:BA:665:A:N7	34:BA:733:A:N3	2.58	0.51
34:BA:745:C:OP1	34:BA:851:G:O2'	2.17	0.51
34:BA:659:U:O4	34:BA:746:A:N1	2.44	0.51
34:BA:767:A:H1'	34:BA:1525:G:H1'	1.92	0.51
34:BA:877:C:C2'	34:BA:878:G:H5'	2.41	0.51
34:BA:757:U:C1'	34:BA:879:C:H1'	2.40	0.51
34:BA:887:G:C6	34:BA:888:G:C6	2.98	0.51
34:BA:984:C:N3	34:BA:985:C:C5	2.79	0.51
34:BA:518:C:N4	35:BB:35:A:H2	2.08	0.51
35:BC:30:G:N1	35:BC:40:C:N4	2.20	0.51
35:BC:36:A:H61	36:B1:60:A:N6	2.08	0.51
35:BC:9:A:H5'	35:BC:46:G:O2'	2.11	0.51
35:BC:56:C:C4	35:BC:57:G:C2	2.99	0.51
37:BE:18:GLY:HA2	37:BE:41:ILE:HA	1.92	0.51
37:BE:69:LEU:HD22	37:BE:91:PRO:O	2.11	0.51
39:BG:133:VAL:HG21	39:BG:138:TYR:CD1	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BG:11:LEU:C	39:BG:13:ARG:N	2.58	0.51
39:BG:59:ARG:HH12	39:BG:62:GLN:HB2	1.76	0.51
39:BG:77:ASN:O	39:BG:80:GLU:CB	2.58	0.51
39:BG:78:LEU:HD21	39:BG:96:LEU:HB3	1.93	0.51
39:BG:98:GLU:CD	39:BG:103:ASN:ND2	2.52	0.51
40:BH:72:GLN:HG3	40:BH:77:PRO:HD3	1.92	0.51
41:BI:9:VAL:HG12	41:BI:59:TYR:O	2.11	0.51
43:BK:6:ILE:O	43:BK:10:LEU:HG	2.11	0.51
43:BK:85:ARG:C	43:BK:86:ILE:HD12	2.31	0.51
44:BL:17:VAL:HG22	44:BL:63:ILE:HG21	1.91	0.51
46:BN:19:ALA:CB	46:BN:80:VAL:HG11	2.38	0.51
47:BO:24:VAL:HG13	47:BO:98:TYR:CZ	2.46	0.51
48:BP:37:THR:HG21	48:BP:56:LEU:HD22	1.92	0.51
48:BP:34:LEU:CD2	48:BP:39:ILE:HG13	2.26	0.51
48:BP:91:ARG:HB2	48:BP:98:VAL:HG13	1.93	0.51
50:BR:41:GLU:CA	50:BR:41:GLU:OE2	2.58	0.51
51:BS:1:MET:HE1	51:BS:2:VAL:O	2.11	0.51
52:BT:50:LYS:HG2	52:BT:51:TYR:N	2.24	0.51
53:BU:30:ASP:OD1	53:BU:32:ARG:CB	2.58	0.51
10:AK:111:ASP:HB3	10:AK:114:LYS:HG3	1.90	0.51
37:BE:136:VAL:N	37:BE:139:LYS:HZ1	2.09	0.51
36:B1:31:G:H2'	36:B1:32:G:H8	1.76	0.51
24:A0:50:HIS:CE1	24:A0:54:LEU:CD1	2.93	0.51
24:A0:97:VAL:O	24:A0:98:LEU:HD23	2.11	0.51
25:A1:8:ILE:HD13	25:A1:9:VAL:CG2	2.40	0.51
27:A3:62:LEU:O	27:A3:63:SER:C	2.50	0.51
31:A7:32:ALA:O	31:A7:35:ARG:HB2	2.11	0.51
33:A9:11:CYS:SG	33:A9:11:CYS:O	2.68	0.51
2:AA:1029:A:C2'	2:AA:1030:G:H5'	2.41	0.51
2:AA:1084:A:H5''	9:AI:37:VAL:CA	2.41	0.51
2:AA:1044:G:N2	2:AA:1111:A:C1'	2.74	0.51
2:AA:1111:A:C5'	2:AA:1112:G:OP1	2.54	0.51
2:AA:1132:A:N7	2:AA:1133:U:N3	2.57	0.51
2:AA:1173:G:H22	2:AA:1175:U:C3'	2.24	0.51
2:AA:818:G:N2	2:AA:1190:G:C2	2.79	0.51
2:AA:1212:G:N1	2:AA:1236:G:C6	2.79	0.51
2:AA:564:C:O2'	2:AA:1252:G:C6	2.56	0.51
2:AA:1264:G:N7	2:AA:1265:A:C8	2.79	0.51
2:AA:135:G:C2	2:AA:145:G:C6	2.99	0.51
2:AA:13:A:C2'	2:AA:14:A:OP2	2.58	0.51
2:AA:135:G:N3	2:AA:145:G:C6	2.79	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1530:G:O6	2:AA:1540:G:O6	2.28	0.51
2:AA:1272:A:C8	2:AA:1618:A:H1'	2.45	0.51
2:AA:1717:G:N7	2:AA:1743:G:N1	2.59	0.51
2:AA:1757:U:O4	2:AA:1762:A:H2	1.94	0.51
2:AA:1901:A:O2'	2:AA:1902:C:H5'	2.11	0.51
2:AA:1915:U:H2'	2:AA:1915:U:O2	2.10	0.51
2:AA:1918:A:C2'	2:AA:1918:A:OP2	2.58	0.51
2:AA:2000:G:C4	2:AA:2001:A:C8	2.99	0.51
2:AA:562:U:C5	2:AA:2036:C:C4'	2.94	0.51
2:AA:2042:A:C2'	2:AA:2043:C:H5'	2.40	0.51
2:AA:2119:A:C2	2:AA:2147:G:OP1	2.64	0.51
2:AA:2126:A:N1	2:AA:2127:G:C2	2.79	0.51
2:AA:2278:A:C1'	15:AP:19:TYR:HD2	2.24	0.51
2:AA:2324:C:O2'	2:AA:2325:G:OP1	2.18	0.51
2:AA:2348:U:C5'	32:A8:42:ARG:NH2	2.74	0.51
2:AA:2354:G:C4'	27:A3:31:VAL:CG2	2.89	0.51
2:AA:2393:A:H5'	32:A8:13:ARG:NH2	2.26	0.51
2:AA:2282:G:N2	2:AA:2427:C:N3	2.55	0.51
2:AA:2458:G:O2'	2:AA:2459:A:N7	2.44	0.51
2:AA:2555:U:H2'	2:AA:2556:C:O4'	2.12	0.51
2:AA:2612:C:H5''	29:A5:2:ALA:CB	2.41	0.51
2:AA:2687:U:N3	2:AA:2688:U:C6	2.79	0.51
2:AA:2709:G:C2'	2:AA:2710:C:C5'	2.88	0.51
2:AA:272:G:O2'	2:AA:273:G:H5'	2.11	0.51
2:AA:286:C:C3'	2:AA:286:C:C6	2.93	0.51
2:AA:322:A:H1'	2:AA:341:G:C8	2.45	0.51
2:AA:38:A:C2'	2:AA:39:C:C6	2.91	0.51
2:AA:422:A:C2	2:AA:423:A:C4	2.98	0.51
2:AA:539:G:H2'	2:AA:540:G:C8	2.46	0.51
2:AA:592:G:C6	2:AA:593:G:N7	2.79	0.51
2:AA:61:G:C6	2:AA:62:C:N4	2.79	0.51
2:AA:641:C:C5	2:AA:642:G:C2	2.99	0.51
2:AA:643:A:C8	2:AA:643:A:C3'	2.94	0.51
2:AA:652:C:H2'	2:AA:653:A:OP1	2.11	0.51
2:AA:676:A:C2'	2:AA:677:A:H5'	2.40	0.51
2:AA:735:A:C2'	2:AA:736:C:H5'	2.39	0.51
2:AA:784:A:C6	2:AA:792:G:N9	2.78	0.51
2:AA:886:C:C1'	2:AA:887:A:C8	2.94	0.51
2:AA:955:C:H2'	2:AA:956:G:H5'	1.92	0.51
1:AB:52:A:N3	1:AB:53:A:H1'	2.26	0.51
3:AC:5:LYS:HB3	3:AC:5:LYS:HZ2	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:131:LEU:CD1	4:AD:183:ILE:CG2	2.89	0.51
2:AA:2785:C:O2'	5:AE:100:TRP:HD1	1.92	0.51
6:AF:206:ASN:O	6:AF:207:LEU:HG	2.11	0.51
6:AF:60:SER:HB3	6:AF:69:HIS:HB3	1.92	0.51
7:AG:142:ALA:CB	7:AG:151:ILE:HD11	2.41	0.51
7:AG:49:PRO:HB2	7:AG:72:LYS:O	2.10	0.51
8:AH:37:HIS:CB	8:AH:40:MET:SD	2.99	0.51
8:AH:41:THR:C	8:AH:52:THR:OG1	2.49	0.51
9:AI:20:GLU:OE1	9:AJ:53:GLN:OE1	2.29	0.51
9:AJ:85:LEU:HD12	11:AL:57:VAL:HB	1.91	0.51
12:AM:83:ILE:O	12:AM:86:MET:N	2.41	0.51
2:AA:1007:C:C4'	12:AM:86:MET:O	2.59	0.51
12:AM:93:ARG:O	12:AM:94:GLY:C	2.47	0.51
14:AO:113:GLN:O	14:AO:115:ARG:HD2	2.11	0.51
15:AP:36:ASN:OD1	21:AV:115:ILE:C	2.50	0.51
16:AQ:33:ARG:O	16:AQ:47:LEU:HA	2.11	0.51
16:AQ:87:LEU:H	16:AQ:87:LEU:CD2	2.24	0.51
17:AR:30:HIS:O	17:AR:31:PHE:HD2	1.91	0.51
19:AT:56:ASN:ND2	19:AT:62:LYS:CG	2.74	0.51
20:AU:20:HIS:O	20:AU:23:VAL:CB	2.58	0.51
20:AU:27:LEU:O	20:AU:28:SER:O	2.29	0.51
20:AU:53:GLY:O	20:AU:56:ALA:HB2	2.10	0.51
20:AU:54:ASP:C	20:AU:56:ALA:H	2.14	0.51
20:AU:52:ARG:HB2	20:AU:95:ASN:ND2	2.26	0.51
2:AA:73:A:H5'	22:AW:50:ARG:NH2	2.25	0.51
22:AW:56:ILE:O	22:AW:59:ILE:HG22	2.11	0.51
23:AX:20:LYS:HA	23:AX:23:LEU:CG	2.41	0.51
36:B1:12:U:H6	36:B1:12:U:O5'	1.94	0.51
34:BA:1072:G:C6	34:BA:1104:G:N1	2.78	0.51
34:BA:1128:C:H2'	34:BA:1130:A:C8	2.45	0.51
34:BA:1157:A:C8	34:BA:1181:G:N2	2.79	0.51
34:BA:1212:U:O2'	34:BA:1213:A:O5'	2.28	0.51
34:BA:1240:U:H1'	42:BJ:42:ILE:HD11	1.93	0.51
34:BA:1252:A:C6	34:BA:1253:G:N7	2.79	0.51
34:BA:1256:A:C2	34:BA:1258:G:N1	2.79	0.51
34:BA:128:G:O2'	34:BA:129:U:H5'	2.11	0.51
34:BA:978:A:H62	34:BA:1361:G:N2	2.07	0.51
34:BA:319:G:H5'	34:BA:1468:A:H4'	1.92	0.51
34:BA:1539:C:C2'	34:BA:1540:U:C5'	2.88	0.51
34:BA:242:C:C2	34:BA:285:G:C2	2.98	0.51
34:BA:333:G:H2'	34:BA:334:C:C6	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:340:U:O2'	34:BA:341:C:C5'	2.58	0.51
34:BA:41:G:O2'	34:BA:42:G:C5'	2.60	0.51
34:BA:673:G:N2	34:BA:674:G:N2	2.58	0.51
34:BA:675:A:H2'	34:BA:676:A:C8	2.46	0.51
34:BA:687:A:C2	34:BA:704:A:C5	2.99	0.51
34:BA:841:U:H3'	34:BA:848:C:C5'	2.36	0.51
34:BA:944:G:C3'	34:BA:945:G:C5'	2.90	0.51
35:BC:31:A:H5'	35:BC:32:C:OP2	2.11	0.51
37:BE:50:GLU:CG	37:BE:200:ILE:HB	2.41	0.51
37:BE:80:ILE:HG21	37:BE:211:ILE:CG2	2.40	0.51
37:BE:42:ILE:HG23	37:BE:43:ASP:H	1.72	0.51
38:BF:162:GLN:CD	38:BF:163:ALA:N	2.64	0.51
38:BF:160:ALA:HB3	38:BF:162:GLN:O	2.11	0.51
38:BF:16:ARG:HH21	38:BF:184:TYR:H	1.52	0.51
38:BF:196:LEU:N	38:BF:196:LEU:HD23	2.25	0.51
39:BG:100:ARG:CZ	39:BG:137:SER:HA	2.41	0.51
39:BG:13:ARG:NH1	39:BG:38:TYR:CE1	2.78	0.51
39:BG:99:SER:O	39:BG:140:VAL:HG23	2.10	0.51
41:BI:14:LEU:HA	41:BI:18:GLN:NE2	2.26	0.51
34:BA:1351:U:H4'	42:BJ:33:ASP:OD2	2.11	0.51
42:BJ:76:ARG:CZ	42:BJ:89:MET:HE2	2.41	0.51
43:BK:46:LYS:CE	43:BK:64:LYS:HA	2.41	0.51
34:BA:1342:C:H4'	44:BL:125:TYR:HD1	1.75	0.51
44:BL:24:GLY:C	44:BL:25:LYS:HG3	2.31	0.51
44:BL:32:ASP:OD1	44:BL:35:GLU:N	2.43	0.51
44:BL:49:PRO:HD3	44:BL:78:LYS:HD3	1.93	0.51
34:BA:1248:A:H2'	44:BL:70:LYS:HZ1	1.76	0.51
45:BM:60:ARG:O	45:BM:61:GLU:CB	2.57	0.51
34:BA:779:C:H4'	46:BN:121:PRO:O	2.11	0.51
47:BO:102:ARG:NH2	47:BO:110:VAL:HA	2.26	0.51
47:BO:117:ARG:CZ	47:BO:124:LYS:CA	2.88	0.51
47:BO:115:LYS:O	47:BO:117:ARG:HG3	2.10	0.51
50:BR:15:PHE:O	50:BR:16:ALA:O	2.29	0.51
34:BA:750:G:H1'	50:BR:23:GLY:N	2.26	0.51
34:BA:43:C:C5'	51:BS:12:LYS:CB	2.88	0.51
51:BS:1:MET:CE	51:BS:3:LYS:HE2	2.41	0.51
51:BS:1:MET:HE2	51:BS:3:LYS:HE2	1.92	0.51
54:BV:72:GLY:C	54:BV:74:PHE:H	2.15	0.51
55:BW:63:ILE:HG23	55:BW:77:ALA:CB	2.34	0.51
34:BA:261:U:H5	55:BW:79:ARG:NH2	2.08	0.51
10:AK:95:SER:O	10:AK:98:ILE:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1510:A:C3'	2:AA:1511:A:C8	2.93	0.51
10:AK:64:ASN:N	10:AK:64:ASN:HD22	2.08	0.51
2:AA:2246:G:N2	2:AA:2247:A:C6	2.79	0.51
48:BP:69:GLU:HA	48:BP:72:ALA:HB3	1.91	0.51
24:A0:37:THR:HA	24:A0:111:LEU:HA	1.92	0.50
24:A0:36:THR:HB	24:A0:40:LYS:HB2	1.92	0.50
24:A0:72:ASP:CG	24:A0:74:LYS:HD3	2.30	0.50
26:A2:19:VAL:O	26:A2:21:ARG:NH1	2.44	0.50
27:A3:42:GLY:O	27:A3:43:THR:HG22	2.11	0.50
29:A5:33:CYS:CB	29:A5:34:PRO:CD	2.88	0.50
31:A7:32:ALA:O	31:A7:33:ARG:C	2.49	0.50
2:AA:115:C:O2'	2:AA:116:C:C5'	2.59	0.50
2:AA:1174:A:N6	2:AA:1177:A:C2	2.79	0.50
2:AA:1249:U:H3'	2:AA:1249:U:C6	2.46	0.50
2:AA:1296:G:C6	2:AA:1297:C:N4	2.79	0.50
2:AA:1347:G:HO2'	2:AA:1348:G:H5'	1.75	0.50
2:AA:1346:G:O2'	2:AA:1347:G:O5'	2.29	0.50
2:AA:1364:G:N9	2:AA:1368:G:N2	2.60	0.50
2:AA:1596:A:O2'	2:AA:1597:A:H5'	2.11	0.50
2:AA:1604:C:HO2'	2:AA:1605:C:C5'	2.18	0.50
2:AA:1704:G:C2	2:AA:1705:G:C1'	2.93	0.50
2:AA:752:A:N6	2:AA:1781:C:H1'	2.26	0.50
2:AA:1823:G:C2	2:AA:1824:G:C8	2.99	0.50
2:AA:1832:C:C5	2:AA:1833:U:C5	2.99	0.50
2:AA:1846:G:C2	2:AA:1895:C:C4	2.99	0.50
2:AA:1935:G:C4	2:AA:1962:C:C5	2.99	0.50
2:AA:1984:G:C4	2:AA:1985:G:C8	2.99	0.50
2:AA:1992:G:C6	2:AA:1997:G:C5	2.98	0.50
2:AA:2014:A:H2	2:AA:2613:U:H3	1.57	0.50
2:AA:2088:G:O6	2:AA:2089:U:C4	2.64	0.50
2:AA:2096:U:N3	2:AA:2097:C:H5	2.09	0.50
2:AA:2098:U:O4	2:AA:2191:G:O6	2.29	0.50
2:AA:2130:U:C5	2:AA:2131:G:N2	2.75	0.50
2:AA:2135:A:C8	2:AA:2152:G:H8	2.29	0.50
2:AA:2127:G:O6	2:AA:2174:C:OP1	2.29	0.50
2:AA:2184:G:O2'	2:AA:2185:C:H5'	2.11	0.50
2:AA:2217:G:H8	2:AA:2217:G:OP2	1.94	0.50
2:AA:2346:A:C2'	2:AA:2347:C:OP1	2.59	0.50
2:AA:2291:U:H5'	2:AA:2380:C:O2	2.11	0.50
2:AA:2407:G:N2	2:AA:2408:U:N3	2.58	0.50
2:AA:2419:U:OP1	32:A8:41:ILE:CD1	2.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2457:U:H2'	2:AA:2458:G:C4'	2.41	0.50
2:AA:2476:A:H3'	2:AA:2476:A:H8	1.75	0.50
2:AA:2481:G:H2'	2:AA:2482:G:OP2	2.10	0.50
2:AA:249:C:O3'	32:A8:8:LYS:HG2	2.11	0.50
2:AA:2567:G:C4	2:AA:2568:C:C5	2.99	0.50
2:AA:2666:C:H2'	2:AA:2667:C:H5'	1.93	0.50
2:AA:2689:U:C5'	2:AA:2690:C:H5'	2.31	0.50
2:AA:2706:G:C2'	2:AA:2707:G:O5'	2.54	0.50
2:AA:2728:U:H2'	2:AA:2729:G:C8	2.45	0.50
2:AA:2745:C:O2'	8:AH:142:GLU:HG3	2.11	0.50
2:AA:2840:C:C4	2:AA:2841:C:C4	2.99	0.50
2:AA:284:U:H2'	2:AA:285:C:C5	2.47	0.50
2:AA:296:C:H2'	2:AA:297:C:H6	1.76	0.50
2:AA:330:A:O4'	2:AA:1210:A:N6	2.44	0.50
2:AA:446:G:P	25:A1:3:ARG:HB3	2.51	0.50
2:AA:448:U:O2	2:AA:448:U:H2'	2.11	0.50
2:AA:574:C:C4'	2:AA:575:A:H5''	2.41	0.50
2:AA:604:G:N2	2:AA:624:C:C2	2.77	0.50
2:AA:685:A:C8	2:AA:774:A:N6	2.79	0.50
2:AA:76:C:H4'	22:AW:55:ARG:NE	2.25	0.50
2:AA:835:A:N6	2:AA:836:G:C6	2.79	0.50
2:AA:836:G:C6	2:AA:837:C:C4	2.99	0.50
2:AA:84:A:C5'	2:AA:85:G:OP1	2.59	0.50
2:AA:870:A:H4'	15:AP:23:ILE:HG23	1.92	0.50
2:AA:874:G:N1	2:AA:903:C:N4	2.13	0.50
2:AA:955:C:H2'	2:AA:956:G:O4'	2.11	0.50
1:AB:89:G:N3	1:AB:89(A):A:C6	2.79	0.50
4:AD:184:LEU:HB2	4:AD:187:CYS:SG	2.51	0.50
5:AE:109:ASP:CG	5:AE:112:LEU:CG	2.79	0.50
5:AE:83:LEU:HD11	5:AE:178:LEU:HA	1.93	0.50
5:AE:180:ILE:O	5:AE:183:ASP:CB	2.49	0.50
5:AE:235:ILE:HG23	5:AE:236:GLY:N	2.25	0.50
5:AE:71:THR:OG1	5:AE:299:SER:HB2	2.11	0.50
5:AE:204:VAL:O	5:AE:303:PRO:HB3	2.10	0.50
6:AF:240:LEU:CA	6:AF:243:VAL:HG23	2.35	0.50
7:AG:56:ARG:C	7:AG:63:ILE:HG13	2.32	0.50
8:AH:21:ASN:HB3	8:AH:38:PRO:HB3	1.93	0.50
8:AH:90:GLY:O	8:AH:93:TYR:O	2.29	0.50
12:AM:45:VAL:CA	12:AM:131:THR:O	2.57	0.50
13:AN:3:GLN:HG2	13:AN:4:GLN:CB	2.41	0.50
13:AN:1:MET:CE	13:AN:67:ARG:HB3	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AO:94:ARG:C	14:AO:120:LEU:HD13	2.31	0.50
14:AO:141:GLU:O	14:AO:145:LEU:HD13	2.11	0.50
15:AP:101:MET:SD	15:AP:101:MET:C	2.89	0.50
15:AP:86:ARG:CB	15:AP:121:ASP:O	2.50	0.50
17:AR:53:ASP:O	17:AR:56:ARG:HD2	2.10	0.50
18:AS:32:ALA:O	18:AS:35:ILE:N	2.45	0.50
20:AU:102:ASP:O	20:AU:108:ARG:HB3	2.11	0.50
20:AU:48:VAL:HG11	20:AU:96:VAL:CG1	2.31	0.50
21:AV:148:THR:HB	21:AV:166:LEU:H	1.77	0.50
21:AV:24:TYR:HA	21:AV:29:ASN:OD1	2.11	0.50
21:AV:47:SER:O	21:AV:49:THR:OG1	2.28	0.50
34:BA:1011:G:H2'	34:BA:1012:U:C5'	2.41	0.50
34:BA:1016:A:N6	34:BA:1017:G:C2	2.79	0.50
34:BA:1196:U:C5'	34:BA:1197:G:O5'	2.58	0.50
34:BA:1269:A:C8	34:BA:1270:C:O4'	2.46	0.50
34:BA:1320:C:H2'	34:BA:1321:C:O4'	2.12	0.50
34:BA:1419:G:H2'	34:BA:1420:C:C5	2.46	0.50
34:BA:1493:A:O2'	34:BA:1494:G:H5'	2.11	0.50
34:BA:1500:A:OP1	34:BA:1505:G:P	2.69	0.50
34:BA:1501:C:OP1	34:BA:1508:G:H4'	2.11	0.50
34:BA:150:C:C2'	34:BA:151:A:O4'	2.58	0.50
34:BA:190(E):U:H3	52:BT:63:ARG:HB3	1.76	0.50
34:BA:173:U:C5'	34:BA:197:A:C4'	2.89	0.50
34:BA:246:A:O2'	34:BA:247:G:O4'	2.23	0.50
34:BA:271:C:H2'	34:BA:272:C:O5'	2.10	0.50
34:BA:296:U:O2	34:BA:302:G:C2	2.65	0.50
34:BA:304:U:H2'	34:BA:305:G:C8	2.46	0.50
34:BA:321:A:N7	34:BA:328:C:C6	2.79	0.50
34:BA:409:G:OP1	39:BG:24:GLU:N	2.43	0.50
34:BA:618:C:H3'	34:BA:620:C:OP2	2.11	0.50
34:BA:683:G:N2	46:BN:39:PRO:HD3	2.25	0.50
34:BA:686:U:O4	34:BA:703:G:H1'	2.11	0.50
34:BA:761:G:H5''	52:BT:103:GLY:N	2.27	0.50
34:BA:828:A:N1	34:BA:859:A:C4'	2.74	0.50
34:BA:22:G:H4'	34:BA:885:G:N9	2.26	0.50
34:BA:948:C:O2	34:BA:949:A:C8	2.64	0.50
34:BA:974:A:OP1	34:BA:974:A:O4'	2.30	0.50
35:BB:35:A:C5	36:B1:65:U:N3	2.63	0.50
35:BC:56:C:H42	35:BC:57:G:N2	2.10	0.50
35:BC:8:U:C1'	35:BC:48:C:HO2'	2.23	0.50
38:BF:67:THR:CA	38:BF:102:ASN:O	2.43	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BF:122:GLU:O	38:BF:123:GLN:C	2.48	0.50
39:BG:60:GLU:HG2	39:BG:203:VAL:HG23	1.93	0.50
34:BA:9:G:OP2	40:BH:121:LYS:HD2	2.11	0.50
40:BH:7:GLU:OE1	40:BH:112:LEU:HD21	2.11	0.50
41:BI:11:ASN:ND2	41:BI:13:ASN:HB2	2.24	0.50
42:BJ:30:ILE:O	42:BJ:31:MET:O	2.29	0.50
43:BK:18:ARG:CG	43:BK:18:ARG:HH11	2.24	0.50
44:BL:111:ARG:HG2	44:BL:112:LYS:O	2.11	0.50
44:BL:5:TYR:CZ	44:BL:18:PHE:CZ	2.99	0.50
45:BM:6:ILE:O	45:BM:71:LEU:HD13	2.11	0.50
46:BN:53:SER:OG	46:BN:54:ARG:CD	2.59	0.50
34:BA:1227:A:O2'	48:BP:115:LYS:CG	2.59	0.50
48:BP:24:GLY:CA	48:BP:66:LEU:HD13	2.41	0.50
48:BP:91:ARG:NH1	48:BP:96:LEU:CD1	2.70	0.50
48:BP:91:ARG:NH1	48:BP:97:PRO:HG2	2.25	0.50
34:BA:1308:U:C4'	48:BP:99:ARG:HH12	2.24	0.50
49:BQ:12:ARG:C	49:BQ:14:PRO:N	2.64	0.50
52:BT:11:VAL:HG22	52:BT:20:THR:OG1	2.12	0.50
53:BU:67:ALA:O	53:BU:68:LYS:C	2.49	0.50
7:AG:57:THR:HG22	7:AG:58:VAL:H	1.77	0.50
24:A0:83:ILE:HG22	24:A0:86:ARG:NE	2.24	0.50
24:A0:89:ASP:CG	24:A0:90:ARG:H	2.13	0.50
25:A1:109:LEU:O	25:A1:109:LEU:HD23	2.11	0.50
25:A1:33:ARG:O	25:A1:34:ASN:C	2.50	0.50
25:A1:61:TRP:O	25:A1:65:ILE:HB	2.11	0.50
26:A2:74:TYR:OH	26:A2:90:PHE:CE1	2.65	0.50
27:A3:37:LEU:HB2	27:A3:68:VAL:HA	1.92	0.50
2:AA:2396:G:OP1	28:A4:28:ARG:NE	2.43	0.50
29:A5:58:LEU:O	29:A5:59:ALA:HB2	2.10	0.50
30:A6:21:TYR:C	30:A6:22:TYR:CD1	2.85	0.50
30:A6:48:VAL:O	30:A6:50:PHE:HD1	1.92	0.50
2:AA:1379:A:N6	31:A7:10:ARG:HH22	2.06	0.50
31:A7:4:THR:H	31:A7:6:GLN:NE2	2.07	0.50
33:A9:15:LYS:O	33:A9:25:VAL:HG13	2.11	0.50
2:AA:1082:U:C3'	2:AA:1082:U:C6	2.95	0.50
2:AA:1189:A:N7	2:AA:1190:G:C8	2.79	0.50
2:AA:1189:A:C3'	2:AA:1190:G:C5'	2.89	0.50
2:AA:1223:C:C2	2:AA:1227:A:C2	2.99	0.50
2:AA:1239:G:H1'	2:AA:1240:U:C5	2.46	0.50
2:AA:126:A:N7	2:AA:127:A:C2	2.80	0.50
2:AA:122:G:N2	2:AA:130:C:C1'	2.74	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1376:C:C2'	2:AA:1377:G:C8	2.91	0.50
2:AA:1472:A:H2'	2:AA:1473:G:O5'	2.11	0.50
2:AA:1486:A:H2'	2:AA:1487:G:C8	2.46	0.50
2:AA:1522:G:C2	2:AA:1523:U:C5	2.99	0.50
2:AA:1529:A:H5''	2:AA:1530:G:H8	1.76	0.50
2:AA:1554:A:C2'	2:AA:1555:G:N7	2.75	0.50
2:AA:1780:A:C2'	2:AA:1781:C:OP1	2.59	0.50
2:AA:1850:G:C4	2:AA:1851:U:C6	2.99	0.50
2:AA:1894:C:C2	2:AA:1895:C:H5	2.28	0.50
2:AA:1936:A:N9	2:AA:1940:U:C4	2.79	0.50
2:AA:1999:C:C2	2:AA:2000:G:C8	2.99	0.50
2:AA:2009:G:H2'	2:AA:2010:G:O5'	2.11	0.50
2:AA:2022:U:H1'	2:AA:2034:U:C2	2.45	0.50
2:AA:2110:G:C6	2:AA:2179:C:N3	2.79	0.50
2:AA:2228:G:C6	2:AA:2229:C:C2	2.99	0.50
2:AA:2255:G:C5	2:AA:2256:G:C8	3.00	0.50
2:AA:2276:G:O2'	2:AA:2277:G:O5'	2.15	0.50
2:AA:21:A:H2'	2:AA:22:C:H6	1.76	0.50
2:AA:2349:G:H2'	2:AA:2350:C:H5''	1.93	0.50
2:AA:2357:U:C2'	2:AA:2358:G:O5'	2.59	0.50
2:AA:2466:C:OP1	33:A9:6:SER:CB	2.58	0.50
2:AA:1027:A:C2	2:AA:2488:A:H5'	2.46	0.50
2:AA:2507:C:C6	2:AA:2508:G:N7	2.79	0.50
2:AA:2528:U:H5''	33:A9:31:LYS:HE2	1.93	0.50
2:AA:2568:C:O2	2:AA:2569:G:O4'	2.29	0.50
2:AA:261:G:C4'	2:AA:608:A:C2	2.89	0.50
2:AA:2653:U:O2	2:AA:2668:G:C2	2.65	0.50
2:AA:1629:U:O2	2:AA:2698:U:C5'	2.60	0.50
2:AA:270:A:C8	2:AA:270(A):A:H1'	2.46	0.50
2:AA:2776:A:N3	2:AA:2778:A:N7	2.59	0.50
2:AA:2789:C:N3	2:AA:2790:A:C2	2.80	0.50
2:AA:281:G:N3	2:AA:281:G:H2'	2.26	0.50
2:AA:317:G:N1	2:AA:318:C:N3	2.59	0.50
2:AA:380:U:O2'	28:A4:15:ILE:HB	2.12	0.50
2:AA:391:G:C4	2:AA:411:G:N2	2.79	0.50
2:AA:442:G:C2	2:AA:444:C:C5	3.00	0.50
2:AA:503:A:C2	2:AA:505:A:N6	2.79	0.50
2:AA:26:G:H21	2:AA:513:A:N6	2.09	0.50
2:AA:624:C:H2'	2:AA:657:U:OP1	2.11	0.50
2:AA:666:G:C2'	2:AA:667:U:O5'	2.59	0.50
2:AA:724:U:O2	2:AA:725:G:O4'	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:81:G:H2'	2:AA:82:G:C5'	2.41	0.50
2:AA:976:C:O2	2:AA:977:G:H8	1.94	0.50
1:AB:104:A:H2'	1:AB:105:G:O4'	2.12	0.50
3:AC:163:PHE:CB	3:AC:171:ILE:HD11	2.36	0.50
4:AD:71:ASP:HB3	4:AD:119:PRO:HD2	1.94	0.50
5:AE:107:GLU:HB3	5:AE:110:ARG:NH1	2.26	0.50
5:AE:213:PRO:CB	5:AE:235:ILE:HG12	2.41	0.50
5:AE:265:ASN:ND2	5:AE:265:ASN:O	2.44	0.50
5:AE:307:LEU:O	5:AE:309:PRO:CD	2.49	0.50
5:AE:43:GLY:O	5:AE:44:TYR:HD1	1.93	0.50
2:AA:2784:C:O2	5:AE:98:GLU:CD	2.49	0.50
6:AF:80:VAL:CG1	6:AF:81:PRO:CD	2.84	0.50
1:AB:58:A:H1'	7:AG:140:ARG:NH2	2.26	0.50
9:AI:29:PHE:O	9:AI:33:ALA:HB3	2.11	0.50
10:AK:1:MET:HE1	10:AK:23:ASP:HA	1.93	0.50
10:AK:6:LEU:O	10:AK:14:LYS:NZ	2.44	0.50
11:AL:24:VAL:O	11:AL:24:VAL:HG12	2.11	0.50
12:AM:45:VAL:HG13	12:AM:131:THR:CG2	2.41	0.50
12:AM:77:GLY:O	12:AM:80:LYS:N	2.43	0.50
14:AO:67:ARG:HD3	14:AO:112:GLY:HA3	1.93	0.50
14:AO:141:GLU:OE1	14:AO:141:GLU:O	2.29	0.50
2:AA:2250:G:C8	15:AP:102:ARG:HA	2.41	0.50
16:AQ:126:GLY:O	16:AQ:127:LEU:C	2.50	0.50
17:AR:49:LEU:HD23	17:AR:50:GLU:HA	1.94	0.50
2:AA:2012:G:C5'	18:AS:98:LYS:NZ	2.74	0.50
20:AU:27:LEU:CA	20:AU:98:VAL:O	2.59	0.50
21:AV:127:PRO:O	21:AV:129:ARG:N	2.44	0.50
34:BA:1002:G:C4	34:BA:1003:G:H1'	2.46	0.50
34:BA:1030:C:C2	34:BA:30(A):G:N7	2.80	0.50
34:BA:1038:C:C2	34:BA:1039:C:C5	2.99	0.50
34:BA:1051:C:C4	34:BA:1052:U:C4	2.99	0.50
34:BA:1181:G:C5	34:BA:1182:G:C2	2.99	0.50
34:BA:1213:A:H2'	34:BA:1215:G:C8	2.46	0.50
34:BA:1296:C:H5''	34:BA:1297:C:OP2	2.11	0.50
34:BA:1297:C:H5''	34:BA:1298:C:OP1	2.11	0.50
34:BA:130:A:H5'	52:BT:63:ARG:HH21	1.76	0.50
34:BA:1405:G:H1'	34:BA:1519:A:C5'	2.39	0.50
34:BA:1428:A:C6	34:BA:1429:C:N4	2.79	0.50
34:BA:1511:G:O2'	34:BA:1512:U:H5'	2.10	0.50
34:BA:29:G:C4'	34:BA:296:U:OP1	2.59	0.50
34:BA:314:C:O2'	34:BA:353:A:N1	2.39	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:355:C:H1'	34:BA:388:G:H2'	1.93	0.50
34:BA:425:G:O2'	34:BA:426:G:H5'	2.10	0.50
34:BA:458:C:H3'	34:BA:459:G:H8	1.75	0.50
34:BA:44:G:C2	34:BA:45:U:O4'	2.64	0.50
34:BA:598:U:C2	34:BA:599:C:C5	2.99	0.50
34:BA:597:G:H2'	34:BA:598:U:C5'	2.41	0.50
34:BA:616:G:OP2	39:BG:141:ARG:NH2	2.40	0.50
34:BA:667:G:H1	34:BA:739:C:N4	2.03	0.50
34:BA:702:A:C2'	34:BA:703:G:OP1	2.59	0.50
34:BA:244:U:O4	34:BA:893:C:N3	2.43	0.50
34:BA:950:U:O5'	34:BA:950:U:H6	1.94	0.50
34:BA:978:A:N1	34:BA:1318:A:C6	2.80	0.50
35:BB:2:C:H2'	35:BB:3:G:H5'	1.93	0.50
35:BC:4:G:C4	35:BC:5:A:C8	2.98	0.50
35:BC:63:C:HO2'	35:BC:64:A:C4'	2.24	0.50
37:BE:162:ILE:O	37:BE:185:ILE:HG13	2.10	0.50
37:BE:196:LEU:HD12	37:BE:196:LEU:C	2.30	0.50
37:BE:44:LEU:N	37:BE:44:LEU:HD12	2.25	0.50
37:BE:77:ALA:O	37:BE:80:ILE:CA	2.59	0.50
37:BE:7:VAL:CG2	37:BE:8:LYS:H	2.11	0.50
34:BA:1206:G:H4'	38:BF:194:GLY:N	2.27	0.50
39:BG:119:GLN:O	39:BG:123:HIS:CD2	2.64	0.50
39:BG:15:GLU:HG2	39:BG:63:LYS:HB2	1.93	0.50
39:BG:78:LEU:CD2	39:BG:96:LEU:HB3	2.42	0.50
40:BH:71:LEU:HD21	40:BH:115:VAL:HG12	1.91	0.50
41:BI:23:LYS:HZ2	41:BI:59:TYR:HE2	1.59	0.50
41:BI:31:GLU:O	41:BI:33:TYR:N	2.44	0.50
41:BI:45:LEU:HD21	41:BI:59:TYR:CD1	2.46	0.50
44:BL:32:ASP:HB3	44:BL:35:GLU:CB	2.17	0.50
44:BL:93:ARG:C	44:BL:95:LYS:H	2.15	0.50
45:BM:8:LEU:HD21	45:BM:96:ILE:HG23	1.93	0.50
47:BO:120:TYR:O	47:BO:121:GLY:C	2.49	0.50
34:BA:1227:A:O2'	48:BP:115:LYS:CD	2.59	0.50
48:BP:4:ILE:HG22	48:BP:4:ILE:O	2.10	0.50
49:BQ:44:LEU:CG	49:BQ:45:ARG:N	2.65	0.50
38:BF:33:LEU:HD13	49:BQ:53:LEU:HA	1.94	0.50
34:BA:754:C:P	50:BR:72:ARG:HH12	2.33	0.50
51:BS:10:GLY:HA2	51:BS:14:ASN:ND2	2.26	0.50
51:BS:21:VAL:HG22	51:BS:36:ILE:HD11	1.90	0.50
51:BS:81:ARG:HG2	51:BS:83:GLU:CG	2.40	0.50
54:BV:34:TRP:O	54:BV:36:ARG:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BW:76:ALA:C	55:BW:78:ALA:N	2.62	0.50
55:BW:45:GLN:CA	55:BW:91:LEU:HD13	2.41	0.50
48:BP:120:LYS:O	48:BP:121:LYS:HD2	2.11	0.50
10:AK:117:LEU:HD22	10:AK:121:ILE:HD11	1.93	0.50
2:AA:1483:G:C6	2:AA:1484:G:N7	2.80	0.50
10:AK:66:LYS:HA	10:AK:69:LYS:CB	2.40	0.50
2:AA:1:G:H2'	2:AA:2:G:C8	2.46	0.50
25:A1:85:ARG:CD	25:A1:116:ALA:O	2.58	0.50
25:A1:37:GLN:O	25:A1:39:LEU:N	2.44	0.50
25:A1:57:PHE:HA	25:A1:60:LEU:HB2	1.93	0.50
25:A1:47:TYR:CZ	26:A2:76:SER:HA	2.42	0.50
30:A6:21:TYR:OH	30:A6:43:VAL:CG2	2.60	0.50
2:AA:686:G:OP1	31:A7:11:LYS:CD	2.59	0.50
2:AA:1011:G:C2'	2:AA:1013:C:C5'	2.89	0.50
2:AA:1055:G:N3	9:AI:28:LYS:CD	2.71	0.50
2:AA:104:U:OP2	2:AA:105:C:H5	1.94	0.50
2:AA:108:U:C2	2:AA:109:G:C8	2.99	0.50
2:AA:1047:G:N2	2:AA:1110:G:H2'	2.25	0.50
2:AA:1195:G:H1'	2:AA:1226:G:H22	1.76	0.50
2:AA:1202:C:C6	2:AA:1244:G:N1	2.79	0.50
2:AA:1293:C:O2	2:AA:1294:U:H6	1.94	0.50
2:AA:1317:A:H3'	2:AA:1317:A:C8	2.46	0.50
2:AA:1346:G:C2'	2:AA:1347:G:O5'	2.60	0.50
2:AA:133:C:C2	2:AA:134:C:C5	2.98	0.50
2:AA:1353:A:H2'	2:AA:1354:A:O4'	2.11	0.50
2:AA:1366:A:O2'	2:AA:1367:A:H5'	2.11	0.50
2:AA:1358:G:C2'	2:AA:1373:A:N6	2.73	0.50
2:AA:1434:A:C2	2:AA:1435:G:N9	2.80	0.50
2:AA:1518:C:C5	2:AA:1519:G:C8	2.99	0.50
2:AA:1527:G:C8	2:AA:1527:G:O5'	2.64	0.50
2:AA:1544:C:C2'	2:AA:1545:A:C4'	2.89	0.50
2:AA:1681:G:H2'	2:AA:1762:A:C8	2.46	0.50
2:AA:1843:C:H2'	2:AA:1844:C:H6	1.75	0.50
2:AA:1857:G:C3'	2:AA:1857:G:C8	2.93	0.50
2:AA:1966:A:C2	2:AA:2593:U:C5'	2.88	0.50
2:AA:2075:U:H2'	2:AA:2076:U:O3'	2.11	0.50
2:AA:2103:C:N3	2:AA:2187:G:O6	2.43	0.50
2:AA:214:G:C2	2:AA:215:G:C2	2.97	0.50
2:AA:217:G:C2'	2:AA:218:A:H5'	2.21	0.50
2:AA:234:C:H2'	2:AA:235:U:H5'	1.93	0.50
2:AA:2406:U:H3	14:AO:55:GLN:CG	2.23	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:675:A:N3	2:AA:2443:C:O2'	2.44	0.50
2:AA:2476:A:O2'	2:AA:2477:C:H5'	2.11	0.50
2:AA:2492:U:H2'	2:AA:2493:U:C5'	2.41	0.50
2:AA:2568:C:C2	2:AA:2569:G:C8	3.00	0.50
2:AA:2647:U:O2	2:AA:2648:C:C5	2.64	0.50
2:AA:2789:C:O2'	2:AA:2893:G:N2	2.43	0.50
2:AA:2805:G:C3'	2:AA:2807:G:C5'	2.86	0.50
2:AA:2807:G:C4	2:AA:2808:U:C5	3.00	0.50
2:AA:363(B):G:H2'	2:AA:363(C):G:H8	1.77	0.50
2:AA:568:U:O2	2:AA:570:G:H8	1.87	0.50
2:AA:781:A:H5'	2:AA:782:A:OP1	2.11	0.50
2:AA:7:G:OP1	12:AM:102:ARG:NH1	2.45	0.50
2:AA:910:A:H1'	2:AA:2264:C:O2'	2.12	0.50
2:AA:92:G:O2'	2:AA:93:C:C5'	2.58	0.50
2:AA:950:G:C6	2:AA:968:G:C6	2.99	0.50
2:AA:981:A:OP2	2:AA:982:C:N4	2.43	0.50
1:AB:23:G:O2'	1:AB:26:A:N6	2.44	0.50
1:AB:33:G:C4	1:AB:34:U:C5	3.00	0.50
1:AB:61:G:C2	1:AB:62:C:C5	2.98	0.50
1:AB:70:C:C2	1:AB:71:C:C6	2.99	0.50
3:AC:91:ALA:HB2	3:AC:153:ILE:HD13	1.93	0.50
4:AD:209:ASN:O	4:AD:213:LYS:HD3	2.11	0.50
5:AE:200:ASP:HA	5:AE:266:LYS:CD	2.41	0.50
5:AE:222:ARG:NH1	5:AE:222:ARG:CG	2.50	0.50
6:AF:239:ALA:O	6:AF:240:LEU:C	2.50	0.50
7:AG:82:GLU:O	7:AG:85:GLN:OE1	2.28	0.50
12:AM:16:ASP:N	12:AM:44:ALA:HA	2.27	0.50
12:AM:19:MET:HB2	12:AM:45:VAL:O	2.11	0.50
13:AN:35:ILE:HD12	13:AN:35:ILE:H	1.73	0.50
13:AN:37:ASP:C	13:AN:62:VAL:HG23	2.32	0.50
13:AN:71:ARG:HG3	13:AN:72:PRO:HD2	1.92	0.50
16:AQ:72:GLU:CB	16:AQ:74:PRO:HD2	2.42	0.50
20:AU:77:VAL:C	20:AU:89:ARG:HD2	2.32	0.50
22:AW:19:GLU:O	22:AW:23:LEU:CG	2.45	0.50
23:AX:7:LYS:HA	23:AX:33:GLN:O	2.10	0.50
34:BA:1065:U:O2'	34:BA:1066:C:O5'	2.27	0.50
34:BA:1078:U:C4	34:BA:1079:G:C6	3.00	0.50
34:BA:1077:G:H22	34:BA:1079:G:H3'	1.73	0.50
34:BA:1234:C:C4'	34:BA:1364:U:H1'	2.41	0.50
34:BA:1257:U:O2'	34:BA:1258:G:P	2.69	0.50
34:BA:133:U:O2'	34:BA:134:A:N7	2.31	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:148:G:O2'	34:BA:149:A:H5'	2.11	0.50
34:BA:1508:G:N3	34:BA:1509:C:C6	2.78	0.50
34:BA:544:G:C5	34:BA:545:C:C5	2.99	0.50
34:BA:544:G:H2'	34:BA:545:C:H6	1.76	0.50
34:BA:773:G:C2	34:BA:774:G:C8	3.00	0.50
34:BA:714:G:N2	34:BA:777:A:H1'	2.26	0.50
34:BA:791:G:O6	34:BA:792:A:N6	2.41	0.50
34:BA:952:U:C5'	34:BA:972:C:N4	2.70	0.50
35:BB:6:U:C4	35:BB:68:U:N3	2.77	0.50
35:BC:1:G:N3	35:BC:1:G:H2'	2.27	0.50
35:BC:34:G:C3'	35:BC:35:A:C5'	2.85	0.50
35:BC:62:A:O2'	35:BC:63:C:H5'	2.11	0.50
37:BE:14:GLY:O	37:BE:15:VAL:CG1	2.51	0.50
37:BE:192:SER:C	37:BE:194:PRO:HD2	2.31	0.50
37:BE:54:THR:HG22	37:BE:58:ILE:HD11	1.93	0.50
38:BF:89:GLU:C	38:BF:91:LEU:N	2.62	0.50
39:BG:123:HIS:HB3	39:BG:125:HIS:NE2	2.26	0.50
39:BG:3:ARG:HG3	39:BG:3:ARG:NH1	2.26	0.50
40:BH:34:VAL:HG23	40:BH:62:ALA:HB1	1.93	0.50
41:BI:4:TYR:O	41:BI:65:VAL:O	2.29	0.50
42:BJ:129:GLU:OE1	42:BJ:131:LYS:HD3	2.11	0.50
43:BK:27:PRO:O	43:BK:32:LYS:HD2	2.10	0.50
43:BK:18:ARG:HH12	43:BK:78:GLN:NE2	2.08	0.50
34:BA:1342:C:C1'	44:BL:124:GLN:HB2	2.39	0.50
44:BL:19:LEU:HD22	44:BL:59:PHE:HB2	1.93	0.50
44:BL:47:LEU:CD2	44:BL:50:LEU:HD12	2.35	0.50
45:BM:30:SER:OG	45:BM:81:THR:CA	2.56	0.50
47:BO:92:ASP:CA	47:BO:93:LEU:HD23	2.40	0.50
48:BP:24:GLY:HA3	48:BP:66:LEU:HD13	1.93	0.50
45:BM:49:VAL:CG2	49:BQ:44:LEU:HD21	2.41	0.50
34:BA:237:C:H5''	52:BT:25:ARG:CZ	2.41	0.50
52:BT:27:PHE:O	52:BT:35:VAL:HG13	2.12	0.50
52:BT:44:ALA:CB	52:BT:59:ILE:HD11	2.41	0.50
52:BT:4:LYS:HD2	52:BT:5:VAL:H	1.76	0.50
53:BU:48:GLY:N	53:BU:49:LYS:HZ1	2.10	0.50
53:BU:71:LYS:O	53:BU:75:ILE:HD12	2.11	0.50
10:AK:121:ILE:HG22	10:AK:122:ARG:H	1.75	0.50
10:AK:81:ALA:CB	10:AK:89:LEU:CD2	2.85	0.50
10:AK:94:THR:O	10:AK:95:SER:C	2.48	0.50
44:BL:4:TYR:CD2	44:BL:88:TYR:HB2	2.45	0.50
40:BH:137:GLU:O	40:BH:140:ARG:N	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:57:GLN:O	10:AK:60:GLU:HB3	2.11	0.50
24:A0:39:PRO:O	24:A0:40:LYS:C	2.49	0.50
25:A1:30:LYS:O	25:A1:32:TYR:HD2	1.93	0.50
27:A3:68:VAL:CG2	27:A3:72:LYS:HG3	2.41	0.50
31:A7:21:ARG:HH12	31:A7:42:LEU:CB	2.20	0.50
32:A8:26:LYS:CG	32:A8:44:LYS:HA	2.41	0.50
32:A8:2:PRO:O	32:A8:3:LYS:HG3	2.12	0.50
2:AA:1053:C:H2'	2:AA:1053:C:O2	2.10	0.50
2:AA:1064:C:C4	2:AA:1075:C:N4	2.80	0.50
2:AA:1081:U:C1'	11:AL:117:ASN:HD22	2.23	0.50
2:AA:1173:G:O2'	2:AA:1174:A:N7	2.41	0.50
2:AA:1178:C:N4	2:AA:1179:C:H41	2.10	0.50
2:AA:1179:C:C2	2:AA:1180:C:C5	2.99	0.50
2:AA:1199:U:OP2	2:AA:1199:U:H6	1.95	0.50
2:AA:331:A:C5	2:AA:1209:G:N2	2.79	0.50
2:AA:1400:G:C6	2:AA:1401:G:C6	2.99	0.50
2:AA:1472:A:N7	2:AA:1474:C:C5	2.80	0.50
2:AA:14:A:H62	2:AA:15:G:N2	2.08	0.50
2:AA:1536:A:H2'	2:AA:1537:C:C5'	2.35	0.50
2:AA:1558:A:C2	2:AA:1560:G:O4'	2.65	0.50
2:AA:1571:A:C3'	2:AA:1571:A:C4	2.91	0.50
2:AA:1572:A:P	2:AA:1572:A:O4'	2.70	0.50
2:AA:1578:U:H2'	2:AA:1579:A:C8	2.46	0.50
2:AA:1697:G:C8	2:AA:1698:A:C5'	2.95	0.50
2:AA:1709:U:H2'	2:AA:1710:C:O5'	2.11	0.50
2:AA:181:A:N6	2:AA:182:A:N6	2.59	0.50
2:AA:1933:G:C2'	2:AA:1934:C:H5'	2.41	0.50
2:AA:2028:U:N3	2:AA:2029:G:C6	2.80	0.50
2:AA:2032:G:N7	5:AE:242:ASN:OD1	2.44	0.50
2:AA:204:A:OP1	2:AA:204:A:C8	2.65	0.50
2:AA:206:U:OP2	2:AA:206:U:H5	1.93	0.50
2:AA:210:C:O2'	2:AA:211:A:H5'	2.11	0.50
2:AA:2226:C:N4	2:AA:2227:A:C2	2.79	0.50
2:AA:221:A:C4'	2:AA:222:A:H5'	2.35	0.50
2:AA:224:G:N7	2:AA:420:C:H5'	2.26	0.50
2:AA:2266:A:H5''	2:AA:2267:A:OP1	2.10	0.50
2:AA:2356:C:N4	2:AA:2357:U:O4	2.45	0.50
2:AA:410:G:N2	2:AA:2407:G:C5	2.80	0.50
2:AA:2408:U:O2'	2:AA:2409:G:O5'	2.30	0.50
2:AA:2460:U:H2'	2:AA:2461:C:H6	1.77	0.50
2:AA:2599:G:O2'	2:AA:2600:A:O4'	2.30	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2605:U:O5'	2:AA:2605:U:H6	1.94	0.50
2:AA:2624:G:C2	2:AA:2625:G:C1'	2.95	0.50
2:AA:2675:A:H61	2:AA:2732:G:H1	1.58	0.50
2:AA:270:A:N7	2:AA:270(A):A:C8	2.74	0.50
2:AA:2748:A:N6	2:AA:2757:A:C8	2.80	0.50
2:AA:2753:A:C2'	2:AA:2754:U:H5'	2.41	0.50
2:AA:2821:A:C2	2:AA:2822:G:C5	2.99	0.50
2:AA:2720:U:C5	2:AA:2872:G:C6	3.00	0.50
2:AA:290:G:OP2	2:AA:290:G:N7	2.45	0.50
2:AA:370:G:O2'	2:AA:371:A:O4'	2.29	0.50
2:AA:385:C:O2'	2:AA:386:G:H5''	2.11	0.50
2:AA:408:G:H2'	2:AA:409:C:C5'	2.41	0.50
2:AA:522:G:H2'	2:AA:523:C:H6	1.76	0.50
2:AA:557:U:H5''	12:AM:92:GLN:HB2	1.92	0.50
2:AA:703:U:C3'	2:AA:704:G:C8	2.92	0.50
2:AA:742:G:N3	2:AA:743:G:C8	2.79	0.50
2:AA:778:G:H22	2:AA:787:U:H1'	1.75	0.50
2:AA:861:A:N7	2:AA:862:G:C8	2.79	0.50
2:AA:898:C:C5'	2:AA:899:A:OP2	2.58	0.50
2:AA:968:G:C6	2:AA:969:U:C4	3.00	0.50
2:AA:980:A:H2'	2:AA:981:A:N9	2.25	0.50
3:AC:19:ILE:CD1	3:AC:223:ARG:HB3	2.41	0.50
3:AC:22:ILE:HG23	3:AC:189:ILE:CG2	2.41	0.50
4:AD:145:LEU:CD2	4:AD:183:ILE:HG12	2.38	0.50
5:AE:201:VAL:HG12	5:AE:202:ALA:N	2.27	0.50
5:AE:229:GLN:C	5:AE:231:TRP:N	2.65	0.50
5:AE:243:PRO:O	5:AE:244:SER:HB3	2.11	0.50
5:AE:81:VAL:CG1	5:AE:100:TRP:HZ3	2.25	0.50
6:AF:115:LEU:CB	6:AF:246:ARG:NH1	2.74	0.50
6:AF:161:ASP:HA	6:AF:165:ASP:OD2	2.10	0.50
6:AF:239:ALA:HA	6:AF:242:GLU:HG3	1.92	0.50
6:AF:91:PRO:O	6:AF:93:LYS:N	2.45	0.50
7:AG:140:ARG:HD2	7:AG:144:ARG:CZ	2.41	0.50
7:AG:141:VAL:HG11	7:AG:149:ARG:HB2	1.91	0.50
7:AG:41:LEU:O	7:AG:44:ILE:N	2.44	0.50
7:AG:56:ARG:NH2	35:BC:19:G:N2	2.59	0.50
8:AH:10:ILE:C	8:AH:14:VAL:HG21	2.31	0.50
8:AH:44:VAL:C	8:AH:45:GLU:OE1	2.50	0.50
9:AJ:111:ALA:HA	9:AJ:114:ILE:HD12	1.93	0.50
12:AM:19:MET:HB3	12:AM:46:ILE:HG13	1.91	0.50
12:AM:75:PRO:O	12:AM:78:ILE:N	2.43	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:22:ILE:CG2	13:AN:23:LYS:H	2.19	0.50
14:AO:94:ARG:H	14:AO:94:ARG:HD2	1.76	0.50
18:AS:70:TYR:CD1	18:AS:70:TYR:N	2.79	0.50
20:AU:71:VAL:CG1	20:AU:91:LEU:O	2.59	0.50
21:AV:51:LEU:HD22	21:AV:63:PRO:HB2	1.93	0.50
22:AW:43:PRO:HB2	22:AW:46:ILE:CD1	2.41	0.50
34:BA:101:A:C2'	34:BA:102:G:C5'	2.89	0.50
34:BA:1045:C:N3	34:BA:1046:A:H8	2.08	0.50
34:BA:1054:C:C6	34:BA:1054:C:C3'	2.93	0.50
34:BA:1291:G:H2'	34:BA:1292:U:C5	2.45	0.50
34:BA:1324:A:C5	34:BA:1325:C:C5	2.99	0.50
34:BA:137:C:H42	34:BA:226:G:H1	1.58	0.50
34:BA:1539:C:C2	36:B1:50:G:N2	2.71	0.50
34:BA:195:A:C4'	55:BW:68:LYS:HZ3	2.17	0.50
34:BA:233:C:O2'	34:BA:234:C:H5'	2.12	0.50
34:BA:291:C:N4	34:BA:305:G:O2'	2.44	0.50
34:BA:33:A:H2'	47:BO:32:PHE:HE2	1.77	0.50
34:BA:383:A:C2'	34:BA:384:G:H5'	2.41	0.50
34:BA:44:G:N3	34:BA:45:U:O4'	2.44	0.50
34:BA:49:U:O4	34:BA:362:G:C2	2.64	0.50
34:BA:511:C:O2'	34:BA:512:U:O4'	2.29	0.50
34:BA:518:C:C5	34:BA:530:G:C5	2.99	0.50
34:BA:606:G:H22	34:BA:631:G:H2'	1.76	0.50
34:BA:595:G:H2'	34:BA:641:U:H3	1.77	0.50
34:BA:658:G:C6	34:BA:749:C:N4	2.80	0.50
34:BA:670:G:O2'	41:BI:77:ARG:NH2	2.43	0.50
34:BA:679:C:C2	34:BA:680:C:C5	3.00	0.50
34:BA:702:A:O2'	34:BA:703:G:OP1	2.22	0.50
34:BA:652:U:C5	34:BA:752:G:C4	3.00	0.50
34:BA:778:G:C2'	34:BA:779:C:O5'	2.60	0.50
34:BA:571:U:P	34:BA:819:A:H2'	2.52	0.50
35:BB:65:G:N2	35:BB:66:A:C4	2.80	0.50
34:BA:1103:C:O2'	37:BE:111:ARG:HD2	2.11	0.50
37:BE:20:GLU:CG	37:BE:189:ASP:CB	2.90	0.50
37:BE:50:GLU:O	37:BE:53:ARG:N	2.44	0.50
38:BF:15:THR:O	38:BF:16:ARG:CB	2.57	0.50
39:BG:157:LEU:HA	39:BG:160:GLN:HG3	1.93	0.50
39:BG:18:LYS:O	39:BG:19:LEU:HG	2.11	0.50
40:BH:15:ARG:NH1	40:BH:15:ARG:HG3	2.21	0.50
40:BH:21:ALA:C	40:BH:23:GLY:H	2.14	0.50
41:BI:78:GLU:O	41:BI:81:ILE:HB	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BI:89:MET:SD	41:BI:91:VAL:HG23	2.52	0.50
42:BJ:123:GLU:O	42:BJ:125:MET:N	2.44	0.50
42:BJ:133:GLY:O	42:BJ:136:LYS:HE3	2.11	0.50
43:BK:11:THR:C	43:BK:13:ILE:H	2.15	0.50
44:BL:37:PHE:CD1	44:BL:43:ALA:HA	2.46	0.50
34:BA:685:G:H5'	46:BN:12:ARG:NH1	2.27	0.50
47:BO:37:CYS:HA	47:BO:58:VAL:HG22	1.94	0.50
52:BT:97:SER:HB2	52:BT:102:GLY:C	2.31	0.50
52:BT:97:SER:OG	52:BT:103:GLY:HA3	2.12	0.50
52:BT:10:VAL:HG11	52:BT:53:LEU:CA	2.41	0.50
53:BU:26:LEU:HG	53:BU:29:PHE:HB2	1.94	0.50
53:BU:62:GLU:O	53:BU:63:GLN:C	2.47	0.50
54:BV:11:VAL:CG2	54:BV:39:THR:O	2.60	0.50
34:BA:176:C:H5''	55:BW:29:LYS:NZ	2.26	0.50
55:BW:50:GLU:H	55:BW:99:LEU:HG	1.76	0.50
35:BB:28:C:C2	35:BB:29:A:N7	2.79	0.50
10:AK:131:VAL:HG12	10:AK:133:LEU:CD2	2.41	0.50
10:AK:94:THR:C	10:AK:96:LYS:H	2.14	0.50
36:B1:39:A:N3	36:B1:39:A:H2'	2.27	0.50
2:AA:1620:G:O4'	31:A7:1:MET:N	2.44	0.50
34:BA:336:C:O2'	34:BA:337:C:H5'	2.12	0.50
24:A0:18:LEU:O	24:A0:19:ALA:C	2.50	0.50
24:A0:83:ILE:HD13	24:A0:83:ILE:N	2.26	0.50
2:AA:531:C:H42	25:A1:38:THR:CG2	2.25	0.50
25:A1:8:ILE:HD12	25:A1:9:VAL:HG23	1.93	0.50
26:A2:42:GLY:CA	26:A2:54:TYR:CZ	2.94	0.50
2:AA:387:U:H5''	28:A4:29:PRO:HG3	1.93	0.50
2:AA:1022:G:C6	2:AA:1139:G:C5	2.99	0.50
2:AA:1021:A:C6	2:AA:1023:U:C2	3.00	0.50
2:AA:1086:A:H2'	2:AA:1087:G:H5'	1.94	0.50
2:AA:1094:U:C5	2:AA:1096:A:OP2	2.63	0.50
2:AA:1141:U:O2	2:AA:1141:U:H2'	2.11	0.50
2:AA:1226:G:C8	2:AA:1226:G:C3'	2.95	0.50
2:AA:1293:C:C2'	2:AA:1294:U:O5'	2.60	0.50
2:AA:1304:C:O2	2:AA:1304:C:C2'	2.58	0.50
2:AA:1496:A:N1	2:AA:1577:C:O2'	2.38	0.50
2:AA:1567:A:N1	4:AD:83:ASP:HA	2.27	0.50
2:AA:1419:A:C4	2:AA:1578:U:C4	3.00	0.50
2:AA:1324:G:C2'	2:AA:1616:A:H62	2.23	0.50
2:AA:1630:G:H2'	2:AA:630(A):C:H6	1.77	0.50
2:AA:1752:C:N4	2:AA:1756:G:N1	2.37	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1789:A:C4	2:AA:1790:C:C6	2.99	0.50
2:AA:1826:G:N1	2:AA:1827:C:C5	2.78	0.50
2:AA:1912:A:C8	2:AA:1913:A:H1'	2.46	0.50
2:AA:1931:U:O4	2:AA:1969:A:N7	2.45	0.50
2:AA:197:A:H3'	2:AA:198:C:H6	1.76	0.50
2:AA:1982:C:C6	2:AA:1982:C:O5'	2.64	0.50
2:AA:2093:G:O2'	2:AA:2094:G:H5'	2.10	0.50
2:AA:2137:C:H41	2:AA:2155:G:H1'	1.76	0.50
2:AA:2199:A:H8	2:AA:2199:A:O5'	1.94	0.50
2:AA:2330:G:N1	2:AA:2331:G:C4	2.80	0.50
2:AA:233:A:H2'	2:AA:234:C:O5'	2.11	0.50
2:AA:2356:C:C2'	2:AA:2357:U:O5'	2.59	0.50
2:AA:218:A:H61	2:AA:235:U:H1'	1.76	0.50
2:AA:2363:C:O2'	2:AA:2364:C:H5'	2.12	0.50
2:AA:2378:A:N3	16:AQ:26:LEU:CG	2.74	0.50
2:AA:2411:A:O5'	2:AA:2411:A:H8	1.94	0.50
2:AA:2397:G:N1	2:AA:2420:C:C2	2.80	0.50
2:AA:363(D):G:C2	2:AA:363(E):U:H1'	2.47	0.50
2:AA:503:A:C8	2:AA:503:A:OP2	2.63	0.50
2:AA:504:U:O5'	2:AA:504:U:C6	2.65	0.50
2:AA:1630:G:C6	2:AA:630(A):C:N4	2.80	0.50
2:AA:744:G:H2'	2:AA:745:G:H8	1.73	0.50
2:AA:786:C:H2'	2:AA:787:U:O4'	2.12	0.50
2:AA:787:U:O4	2:AA:791:C:C4	2.65	0.50
2:AA:686:G:N2	2:AA:788:A:C6	2.79	0.50
2:AA:988:A:OP2	23:AX:11:SER:CB	2.57	0.50
2:AA:995:C:C2'	2:AA:995:C:O2	2.57	0.50
1:AB:100:G:C4	1:AB:101:A:N7	2.79	0.50
1:AB:21:G:C2	1:AB:22:U:C2	3.00	0.50
1:AB:6:C:O2	1:AB:114:G:N1	2.32	0.50
4:AD:171:VAL:C	4:AD:182:MET:SD	2.90	0.50
4:AD:73:ILE:HB	4:AD:95:TYR:CD2	2.46	0.50
5:AE:221:LYS:HZ1	5:AE:233:ARG:CG	2.18	0.50
5:AE:233:ARG:O	5:AE:234:ARG:CG	2.55	0.50
5:AE:71:THR:HG1	5:AE:299:SER:HA	1.73	0.50
5:AE:45:LYS:NZ	5:AE:302:GLY:O	2.44	0.50
5:AE:44:TYR:C	5:AE:74:GLU:CD	2.71	0.50
6:AF:163:HIS:HA	6:AF:166:ILE:HD12	1.93	0.50
6:AF:19:PRO:O	6:AF:23:GLU:HG3	2.12	0.50
7:AG:47:GLN:HE21	7:AG:79:MET:HG3	1.77	0.50
8:AH:151:ARG:O	8:AH:152:PRO:O	2.30	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:77:VAL:HG13	9:AJ:102:ILE:HD11	1.93	0.50
9:AJ:78:ARG:NH2	9:AJ:89:LYS:HG3	2.11	0.50
12:AM:58:GLU:HG3	12:AM:139:LEU:CG	2.41	0.50
12:AM:75:PRO:O	12:AM:76:ASP:C	2.49	0.50
13:AN:40:VAL:O	13:AN:41:ALA:HB2	2.11	0.50
14:AO:66:VAL:CG1	14:AO:67:ARG:N	2.56	0.50
15:AP:57:ARG:CB	15:AP:60:ALA:HB3	2.42	0.50
16:AQ:40:ASN:O	16:AQ:41:LYS:C	2.50	0.50
16:AQ:89:GLY:O	16:AQ:93:GLN:HG3	2.12	0.50
19:AT:49:VAL:CG1	19:AT:49:VAL:O	2.55	0.50
2:AA:338:G:P	20:AU:21:LYS:HG3	2.52	0.50
20:AU:19:ARG:HH22	20:AU:68:ASP:HA	1.68	0.50
21:AV:19:ILE:HD11	21:AV:79:ILE:CG1	2.42	0.50
34:BA:997:U:C4	34:BA:1044:A:N1	2.79	0.50
34:BA:18:C:H4'	34:BA:1078:U:O2	2.12	0.50
34:BA:1151:A:C2'	34:BA:1152:A:O5'	2.60	0.50
34:BA:1055:A:N7	34:BA:1200:C:N4	2.60	0.50
34:BA:1288:A:O2'	34:BA:1289:A:O5'	2.21	0.50
34:BA:1324:A:N6	34:BA:1325:C:N4	2.60	0.50
34:BA:1347:G:C2'	34:BA:1348:U:OP2	2.59	0.50
34:BA:361(A):C:O2'	34:BA:1362:C:O4'	2.29	0.50
34:BA:1436:U:C5	34:BA:1437:C:C5	2.99	0.50
34:BA:1493:A:C2'	34:BA:1494:G:O5'	2.60	0.50
34:BA:67:C:O4'	34:BA:172:A:H1'	2.11	0.50
34:BA:225:C:C2'	34:BA:226:G:C5'	2.83	0.50
34:BA:298:A:H3'	34:BA:299:G:C8	2.32	0.50
34:BA:411:A:H2	34:BA:431:A:N6	2.09	0.50
34:BA:41:G:C2'	34:BA:42:G:H8	2.19	0.50
34:BA:434:U:H2'	34:BA:435:C:C6	2.45	0.50
34:BA:521:G:C6	34:BA:529:G:N2	2.79	0.50
34:BA:553:A:H2'	34:BA:554:C:H6	1.74	0.50
34:BA:685:G:C2	34:BA:686:U:C5	2.99	0.50
34:BA:691:G:H1	46:BN:52:GLY:HA2	1.77	0.50
34:BA:696:A:C4	34:BA:697:U:C5	3.00	0.50
34:BA:68:G:C6	34:BA:69:G:C5	2.99	0.50
34:BA:666:G:OP2	34:BA:726:C:H1'	2.12	0.50
34:BA:792:A:C4	34:BA:794:A:N6	2.79	0.50
35:BC:16:U:P	35:BC:60:C:HO2'	2.28	0.50
37:BE:102:LEU:O	37:BE:180:LEU:HD13	2.11	0.50
37:BE:23:ARG:HH11	37:BE:24:TRP:CA	2.24	0.50
38:BF:130:VAL:O	38:BF:134:ILE:HD12	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BG:19:LEU:O	39:BG:20:TYR:O	2.29	0.50
39:BG:200:GLU:O	39:BG:204:ILE:HD12	2.11	0.50
39:BG:63:LYS:HG2	39:BG:64:LEU:N	2.22	0.50
40:BH:12:LEU:CD1	40:BH:31:LEU:CB	2.89	0.50
40:BH:36:ASP:OD2	40:BH:38:GLN:HB2	2.10	0.50
41:BI:27:GLN:O	41:BI:28:ARG:C	2.48	0.50
42:BJ:95:ARG:O	42:BJ:97:GLN:N	2.44	0.50
43:BK:28:ALA:O	43:BK:29:SER:CB	2.60	0.50
43:BK:98:LYS:C	43:BK:100:ILE:HD12	2.31	0.50
45:BM:24:VAL:HA	45:BM:34:VAL:HG11	1.93	0.50
45:BM:27:ALA:CB	45:BM:85:LEU:HD11	2.30	0.50
47:BO:117:ARG:NH2	47:BO:123:LYS:C	2.65	0.50
48:BP:78:ILE:HG12	48:BP:88:ARG:NH2	2.26	0.50
49:BQ:9:LYS:CA	49:BQ:21:TYR:HE1	2.19	0.50
49:BQ:4:LYS:HA	49:BQ:7:ILE:HG13	1.93	0.50
50:BR:66:LEU:CD2	50:BR:66:LEU:N	2.74	0.50
52:BT:57:VAL:CB	52:BT:75:ARG:O	2.55	0.50
54:BV:40:ILE:HG12	54:BV:71:LEU:CD2	2.25	0.50
55:BW:56:MET:CG	55:BW:88:VAL:HG11	2.41	0.50
10:AK:100:GLU:O	10:AK:104:ALA:HB2	2.12	0.50
35:BB:1:G:N1	35:BB:73:A:C2	2.79	0.50
6:AF:61:PHE:HB2	6:AF:67:GLN:OE1	2.12	0.50
2:AA:1009:A:O4'	25:A1:59:ARG:CD	2.59	0.50
26:A2:15:SER:CA	26:A2:99:GLN:CD	2.80	0.50
26:A2:68:LYS:HG2	26:A2:69:ILE:HD12	1.92	0.50
29:A5:34:PRO:HD2	29:A5:36:CYS:H	1.77	0.50
30:A6:41:ASP:OD1	30:A6:41:ASP:N	2.43	0.50
30:A6:40:TYR:HB2	30:A6:50:PHE:CE2	2.47	0.50
2:AA:1071:G:C2'	2:AA:1072:C:H5'	2.41	0.50
2:AA:1203:G:N3	2:AA:1203:G:C3'	2.71	0.50
2:AA:1364:G:OP1	28:A4:3:LYS:CG	2.60	0.50
2:AA:1442:G:C2	2:AA:1550:C:C2	3.00	0.50
2:AA:1534:G:N2	2:AA:1536:A:C1'	2.74	0.50
2:AA:1557:C:C3'	2:AA:1558:A:H5''	2.36	0.50
2:AA:1746:G:C3'	2:AA:1747:G:C8	2.95	0.50
2:AA:1758:G:N7	2:AA:2695:C:C4'	2.74	0.50
2:AA:1798:U:C2'	2:AA:1799:G:H5'	2.41	0.50
2:AA:1858:G:C2	2:AA:1885:A:N7	2.78	0.50
2:AA:1913:A:C5	2:AA:1918:A:N1	2.80	0.50
2:AA:1956:U:O2	2:AA:1957:C:C6	2.65	0.50
2:AA:1965:C:H5'	2:AA:1966:A:O5'	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1965:C:H5'	2:AA:1966:A:H3'	1.93	0.50
2:AA:1992:G:C5	2:AA:1997:G:C6	2.99	0.50
2:AA:2018:G:N2	2:AA:2019:A:O4'	2.44	0.50
2:AA:2032:G:O6	2:AA:2572:A:N3	2.44	0.50
2:AA:2027:G:C4	2:AA:2037:G:C2	3.00	0.50
2:AA:2192:G:C2	2:AA:2193:G:N7	2.79	0.50
2:AA:2207:C:N3	2:AA:2208:U:C5	2.80	0.50
2:AA:2213:U:C3'	2:AA:2213:U:C2	2.95	0.50
2:AA:2217:G:C8	2:AA:2217:G:OP2	2.65	0.50
2:AA:221:A:N7	2:AA:266:G:C5	2.79	0.50
2:AA:2334:G:O4'	2:AA:2334:G:OP1	2.30	0.50
2:AA:2260:C:O2'	2:AA:2388:A:O2'	2.27	0.50
2:AA:2576:G:OP1	2:AA:2577:A:P	2.70	0.50
2:AA:262:A:H2'	2:AA:263:C:H5'	1.93	0.50
2:AA:2634:G:O2'	2:AA:2635:C:C5'	2.53	0.50
2:AA:271:G:H1	2:AA:404:C:H41	1.59	0.50
2:AA:2748:A:N1	2:AA:2757:A:N7	2.60	0.50
2:AA:2759:G:O2'	2:AA:2760:C:O5'	2.29	0.50
2:AA:2797:U:H1'	2:AA:2799:A:C8	2.45	0.50
2:AA:2807:G:N9	2:AA:2808:U:H5	2.10	0.50
2:AA:2838:G:O2'	24:A0:45:ARG:NH1	2.32	0.50
2:AA:1710:C:C1'	2:AA:2858:C:H42	2.25	0.50
2:AA:2862:G:C6	2:AA:2863:C:N4	2.79	0.50
2:AA:2883:A:H3'	2:AA:2884:U:H5'	1.92	0.50
2:AA:422:A:N1	2:AA:423:A:C4	2.80	0.50
2:AA:54:G:O5'	2:AA:54:G:H8	1.94	0.50
2:AA:565:C:C4'	2:AA:1252:G:O6	2.59	0.50
2:AA:673:C:H2'	2:AA:674:G:O5'	2.10	0.50
2:AA:686:G:H4'	2:AA:687:C:OP2	2.11	0.50
2:AA:787:U:O4	2:AA:791:C:C5	2.65	0.50
2:AA:801:G:HO2'	2:AA:802:A:P	2.27	0.50
2:AA:863:A:C2	2:AA:864:G:C5	2.99	0.50
1:AB:32:C:N4	1:AB:51:G:C6	2.80	0.50
1:AB:52:A:C2	1:AB:53:A:C1'	2.89	0.50
1:AB:79:C:H2'	1:AB:80:U:H5'	1.93	0.50
3:AC:75:LEU:O	3:AC:114:VAL:HG22	2.11	0.50
3:AC:14:VAL:HG11	3:AC:222:VAL:CG2	2.38	0.50
3:AC:59:ARG:HB2	3:AC:164:ARG:CB	2.40	0.50
5:AE:81:VAL:CB	5:AE:100:TRP:CZ3	2.90	0.50
5:AE:44:TYR:O	5:AE:74:GLU:OE2	2.29	0.50
6:AF:84:VAL:HB	6:AF:85:LYS:CE	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:146:LYS:HE3	16:AQ:15:GLU:OE2	2.12	0.50
7:AG:79:MET:HA	7:AG:82:GLU:OE2	2.11	0.50
8:AH:34:ARG:HD2	8:AH:36:PHE:HE1	1.69	0.50
8:AH:40:MET:HA	8:AH:54:PRO:CG	2.42	0.50
9:AJ:26:GLU:O	9:AJ:29:PHE:N	2.45	0.50
10:AK:19:LYS:CE	10:AK:20:ASN:N	2.73	0.50
9:AI:3:ILE:HD13	11:AL:117:ASN:OD1	2.12	0.50
11:AL:105:ILE:HG23	11:AL:128:ILE:HD13	1.93	0.50
11:AL:96:ILE:O	11:AL:96:ILE:CG2	2.59	0.50
12:AM:10:VAL:CG1	12:AM:36:VAL:HG22	2.40	0.50
13:AN:10:VAL:HG12	13:AN:12:ASP:O	2.10	0.50
13:AN:5:GLU:HA	13:AN:20:LEU:HD23	1.93	0.50
13:AN:35:ILE:HA	13:AN:62:VAL:HB	1.94	0.50
13:AN:7:ARG:HG2	13:AN:44:LYS:HZ2	1.75	0.50
13:AN:65:THR:OG1	13:AN:67:ARG:CG	2.59	0.50
13:AN:66:LYS:HD2	13:AN:66:LYS:O	2.11	0.50
14:AO:120:LEU:HG	14:AO:122:ALA:HB2	1.92	0.50
14:AO:141:GLU:CG	14:AO:145:LEU:HB2	2.41	0.50
15:AP:42:TYR:OH	21:AV:100:THR:HG23	2.11	0.50
16:AQ:120:GLU:HG3	16:AQ:123:ILE:HD12	1.92	0.50
1:AB:113:C:H4'	16:AQ:56:ASP:OD2	2.12	0.50
17:AR:6:CYS:O	17:AR:9:CYS:HB3	2.11	0.50
20:AU:46:ASP:OD1	20:AU:100:ASP:O	2.30	0.50
20:AU:77:VAL:HB	20:AU:91:LEU:CD2	2.42	0.50
21:AV:107:GLU:C	21:AV:109:GLN:H	2.12	0.50
21:AV:3:LEU:HD12	21:AV:54:ILE:HD11	1.94	0.50
23:AX:40:THR:HG23	23:AX:43:ILE:CG1	2.42	0.50
36:B1:10:U:O2'	36:B1:11:U:H5'	2.12	0.50
36:B1:59:A:C8	36:B1:59:A:C3'	2.91	0.50
34:BA:1128:C:O2	34:BA:1130:A:C6	2.64	0.50
34:BA:1195:C:O2	34:BA:1197:G:C1'	2.59	0.50
34:BA:1202:G:N2	34:BA:1203:C:O4'	2.44	0.50
34:BA:946:A:N6	34:BA:1235:U:H3	2.10	0.50
34:BA:12:U:H5''	34:BA:526:C:O2'	2.12	0.50
34:BA:130:A:C5	34:BA:264:U:H1'	2.47	0.50
34:BA:134:A:C8	34:BA:325:A:C2	3.00	0.50
34:BA:1373:G:C1'	42:BJ:34:GLY:CA	2.89	0.50
34:BA:1406:U:O2	34:BA:1406:U:C2'	2.52	0.50
34:BA:1440:C:H2'	34:BA:1441:G:C8	2.45	0.50
34:BA:1521:G:O2'	34:BA:1522:U:H5'	2.12	0.50
34:BA:27:G:C6	34:BA:557:G:C2	2.99	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:299:G:C5	34:BA:300:A:N6	2.79	0.50
34:BA:308:C:C2	34:BA:309:G:C8	3.00	0.50
34:BA:377:G:H2'	34:BA:378:G:C8	2.46	0.50
34:BA:499:A:H2'	34:BA:546:G:N2	2.27	0.50
34:BA:747:C:H2'	34:BA:748:C:H1'	1.93	0.50
34:BA:77:G:N1	34:BA:78:G:C5	2.80	0.50
34:BA:765:G:O6	34:BA:812:C:C5	2.65	0.50
34:BA:834:C:O2'	34:BA:835:U:H5'	2.12	0.50
34:BA:901:A:C2'	34:BA:902:G:O5'	2.60	0.50
34:BA:986:A:O2'	54:BV:55:LYS:HA	2.10	0.50
34:BA:9:G:N7	40:BH:126:ARG:NH1	2.58	0.50
35:BB:18:G:O2'	35:BB:19:G:P	2.69	0.50
35:BB:15:G:N1	35:BB:48:C:N3	2.46	0.50
35:BB:58:A:HO2'	35:BB:59:U:P	2.32	0.50
35:BB:49:C:N4	35:BB:66:A:N6	2.60	0.50
35:BC:10:G:O6	35:BC:25:C:N3	2.45	0.50
7:AG:56:ARG:CD	35:BC:56:C:O2'	2.47	0.50
37:BE:102:LEU:N	37:BE:176:GLU:OE1	2.45	0.50
37:BE:12:GLU:C	37:BE:14:GLY:N	2.64	0.50
37:BE:167:PRO:O	37:BE:170:GLU:N	2.45	0.50
37:BE:25:ASN:HD21	37:BE:27:LYS:HG3	1.77	0.50
37:BE:74:LYS:HE2	37:BE:76:GLN:CG	2.41	0.50
34:BA:404:U:P	39:BG:118:ARG:HH11	2.34	0.50
39:BG:163:GLU:O	39:BG:164:ALA:C	2.48	0.50
42:BJ:118:VAL:O	42:BJ:122:HIS:CD2	2.64	0.50
42:BJ:29:LYS:HZ2	42:BJ:102:ARG:HB2	1.76	0.50
42:BJ:6:ARG:O	42:BJ:7:ALA:O	2.30	0.50
45:BM:39:PRO:O	45:BM:40:LEU:HB2	2.12	0.50
45:BM:56:HIS:CB	45:BM:59:SER:OG	2.59	0.50
46:BN:101:SER:OG	46:BN:101:SER:O	2.16	0.50
47:BO:70:ILE:HA	47:BO:100:ILE:CG1	2.41	0.50
47:BO:32:PHE:HB3	47:BO:84:LEU:HD11	1.92	0.50
49:BQ:12:ARG:C	49:BQ:14:PRO:CD	2.80	0.50
34:BA:127:G:O2'	52:BT:2:PRO:HD2	2.12	0.50
34:BA:128:G:O2'	52:BT:3:LYS:HE3	2.12	0.50
52:BT:45:HIS:CE1	52:BT:47:PRO:CG	2.93	0.50
53:BU:54:ARG:O	53:BU:55:ARG:HG2	2.11	0.50
10:AK:115:ILE:HA	10:AK:131:VAL:CG1	2.36	0.50
10:AK:83:ALA:CA	10:AK:90:PHE:CE1	2.94	0.50
36:B1:30:U:C2'	36:B1:31:G:H5'	2.38	0.50
44:BL:85:LEU:HD11	44:BL:92:TYR:CD1	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2881:C:C5'	24:A0:90:ARG:NH1	2.74	0.50
25:A1:104:GLU:HA	25:A1:107:LYS:CG	2.42	0.50
25:A1:20:ARG:HH12	26:A2:75:LYS:CD	2.25	0.50
26:A2:61:VAL:HG11	26:A2:95:ILE:HB	1.93	0.50
28:A4:41:PRO:HG2	28:A4:57:ASP:CB	2.42	0.50
30:A6:37:LEU:O	30:A6:38:LYS:HG3	2.12	0.50
30:A6:47:HIS:O	30:A6:48:VAL:CB	2.59	0.50
2:AA:1013:C:H2'	2:AA:1014:U:O4'	2.11	0.50
2:AA:1031:G:H5''	2:AA:1031:G:H8	1.76	0.50
2:AA:1082:U:O2	9:AI:3:ILE:CG2	2.44	0.50
2:AA:1086:A:C2'	2:AA:1087:G:H5'	2.42	0.50
2:AA:1156:A:O2'	2:AA:1157:G:OP1	2.25	0.50
2:AA:1221:C:N3	2:AA:1229:G:N1	2.59	0.50
2:AA:1356:G:H21	2:AA:1357:U:H1'	1.76	0.50
2:AA:1364:G:O6	28:A4:2:GLN:CG	2.60	0.50
2:AA:144:C:C2'	2:AA:145:G:H8	2.16	0.50
2:AA:1476:C:C5	2:AA:1477:A:C2	2.92	0.50
2:AA:1520:U:P	2:AA:1520:U:C6	3.05	0.50
2:AA:1634:A:C3'	2:AA:1634:A:C8	2.94	0.50
2:AA:1664:A:N6	2:AA:1667:G:H22	2.10	0.50
2:AA:790:C:OP1	2:AA:1781:C:N4	2.43	0.50
2:AA:1840:G:H2'	2:AA:1841:U:H5'	1.93	0.50
2:AA:1861:G:N1	2:AA:1862:G:C4	2.79	0.50
2:AA:1982:C:N4	2:AA:1983:C:H41	2.10	0.50
2:AA:2142:C:C2	2:AA:2143:C:C5	2.98	0.50
2:AA:226:G:N1	2:AA:227:A:C2	2.80	0.50
2:AA:2482:G:C5	2:AA:2483:C:C5	3.00	0.50
2:AA:2599:G:O2'	2:AA:2600:A:C5'	2.58	0.50
2:AA:2627:G:N2	2:AA:2628:C:O2	2.44	0.50
2:AA:2639:A:H1'	2:AA:2778:A:H2	1.77	0.50
2:AA:2683:C:C4	2:AA:2684:U:C4	3.00	0.50
2:AA:270(N):G:H2'	2:AA:270(O):U:C5'	2.38	0.50
2:AA:2829:C:O2'	2:AA:2830:G:O5'	2.13	0.50
2:AA:2877:G:H3'	2:AA:2878:U:C6	2.47	0.50
2:AA:304:G:H2'	2:AA:305:U:O4'	2.12	0.50
2:AA:336:C:C2'	2:AA:337:C:C5'	2.89	0.50
2:AA:338:G:OP1	2:AA:338:G:C3'	2.60	0.50
2:AA:408:G:C2'	2:AA:409:C:C5'	2.90	0.50
2:AA:481:G:HO2'	2:AA:482:A:H8	1.56	0.50
2:AA:492:A:C2	2:AA:493:G:H1'	2.47	0.50
2:AA:28:A:H1'	2:AA:582:G:O2'	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:627:A:N6	2:AA:637:A:H1'	2.24	0.50
2:AA:682:G:C6	2:AA:683:C:C4	2.99	0.50
2:AA:689:A:H2'	2:AA:690:G:C5'	2.41	0.50
2:AA:749:C:N3	2:AA:1618:A:C6	2.80	0.50
2:AA:819:A:C4	2:AA:1189:A:C2	3.00	0.50
2:AA:979:G:H8	2:AA:979:G:O5'	1.94	0.50
4:AD:124:LYS:O	4:AD:127:ASN:ND2	2.39	0.50
4:AD:213:LYS:HB3	4:AD:215:LYS:N	2.26	0.50
4:AD:71:ASP:OD2	4:AD:117:SER:O	2.30	0.50
5:AE:200:ASP:C	5:AE:201:VAL:HG23	2.32	0.50
5:AE:222:ARG:HE	5:AE:233:ARG:CA	2.25	0.50
5:AE:269:ILE:HD13	5:AE:295:LEU:O	2.11	0.50
6:AF:49:ASP:HB3	6:AF:52:ALA:HB3	1.92	0.50
7:AG:44:ILE:O	7:AG:83:PHE:CZ	2.65	0.50
7:AG:65:GLU:OE1	7:AG:65:GLU:O	2.30	0.50
9:AI:106:VAL:HG21	9:AI:114:ILE:HD11	1.92	0.50
9:AI:22:VAL:HG11	9:AJ:42:ALA:HB1	1.94	0.50
9:AI:6:ILE:O	9:AI:10:ILE:HG13	2.11	0.50
9:AJ:106:VAL:HG21	9:AJ:114:ILE:HD11	1.94	0.50
10:AK:6:LEU:HD22	10:AK:14:LYS:NZ	2.27	0.50
10:AK:25:TYR:O	10:AK:29:PHE:CD1	2.65	0.50
10:AK:4:ILE:CD1	10:AK:38:GLU:C	2.80	0.50
10:AK:52:GLN:N	10:AK:55:GLN:HE21	2.10	0.50
11:AL:66:PHE:O	11:AL:67:THR:CG2	2.60	0.50
12:AM:53:ILE:CG2	12:AM:135:ILE:CD1	2.89	0.50
13:AN:60:ALA:HA	13:AN:87:ILE:CD1	2.42	0.50
14:AO:71:GLU:CG	14:AO:72:ASN:H	2.20	0.50
16:AQ:104:ILE:CG2	16:AQ:107:ASN:O	2.59	0.50
20:AU:42:VAL:C	20:AU:112:LEU:HD13	2.32	0.50
20:AU:27:LEU:CD1	20:AU:31:LEU:HD12	2.35	0.50
20:AU:55:PHE:HB3	20:AU:58:GLU:OE2	2.11	0.50
20:AU:72:ILE:HG23	20:AU:73:HIS:H	1.76	0.50
21:AV:94:VAL:CG2	21:AV:124:ALA:HA	2.42	0.50
21:AV:92:VAL:HG13	21:AV:124:ALA:HB2	1.94	0.50
21:AV:98:VAL:HG13	21:AV:136:VAL:N	2.26	0.50
21:AV:103:ARG:NH1	21:AV:137:ASP:CB	2.75	0.50
21:AV:139:THR:O	21:AV:140:LYS:HB2	2.12	0.50
21:AV:40:ASP:HB2	21:AV:41:ARG:CZ	2.42	0.50
21:AV:2:GLU:O	21:AV:54:ILE:CG2	2.59	0.50
21:AV:71:MET:C	21:AV:78:PRO:HA	2.31	0.50
23:AX:33:GLN:CG	23:AX:34:GLU:H	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1048:G:O4'	34:BA:1215:G:H4'	2.12	0.50
34:BA:1105:A:N3	34:BA:1106:G:C8	2.80	0.50
34:BA:1248:A:C2'	44:BL:70:LYS:HZ1	2.24	0.50
34:BA:1287:A:H2	34:BA:1353:G:N3	2.09	0.50
34:BA:1314:C:N3	34:BA:1315:U:O4	2.45	0.50
34:BA:1352:C:C2	34:BA:1370:G:N2	2.72	0.50
34:BA:1419:G:O2'	34:BA:1420:C:O4'	2.29	0.50
34:BA:1447:G:N1	34:BA:1448:C:C4	2.79	0.50
34:BA:1528:U:O2'	34:BA:1529:G:O5'	2.28	0.50
34:BA:1533:C:H2'	34:BA:1534:A:O5'	2.12	0.50
34:BA:163:C:C2'	34:BA:164:U:O4'	2.60	0.50
34:BA:166:G:C2	34:BA:167:G:N9	2.80	0.50
34:BA:172:A:N7	34:BA:174:C:C4	2.80	0.50
34:BA:246:A:N3	34:BA:282:A:C6	2.80	0.50
34:BA:439:A:C2'	34:BA:440:A:O5'	2.60	0.50
34:BA:463:A:N6	34:BA:474:G:C6	2.80	0.50
34:BA:483:C:H3'	34:BA:483:C:C6	2.47	0.50
34:BA:59:A:H4'	34:BA:388:G:O5'	2.12	0.50
34:BA:608:A:C4	34:BA:609:A:C8	2.99	0.50
34:BA:65:U:C6	34:BA:381:C:N4	2.80	0.50
34:BA:727:G:H5'	34:BA:741:G:H22	1.77	0.50
34:BA:766:A:H2'	34:BA:767:A:O5'	2.11	0.50
34:BA:956:U:H2'	34:BA:957:U:H6	1.72	0.50
34:BA:1054:C:N3	35:BB:34:G:H5"	2.11	0.50
35:BC:18:G:C6	35:BC:58:A:N1	2.80	0.50
37:BE:112:VAL:O	37:BE:116:GLU:OE2	2.29	0.50
37:BE:146:GLN:HE21	37:BE:150:SER:CB	2.23	0.50
37:BE:163:PHE:HD1	37:BE:185:ILE:HB	1.73	0.50
37:BE:70:PHE:HD1	37:BE:90:MET:CB	2.25	0.50
38:BF:135:LYS:O	38:BF:139:GLN:HG2	2.11	0.50
39:BG:119:GLN:CG	39:BG:123:HIS:CD2	2.95	0.50
39:BG:92:VAL:CG1	39:BG:96:LEU:HD11	2.42	0.50
40:BH:115:VAL:CG1	40:BH:118:ILE:HD11	2.41	0.50
41:BI:11:ASN:CG	41:BI:14:LEU:HD23	2.32	0.50
41:BI:83:ASP:C	41:BI:85:VAL:N	2.64	0.50
42:BJ:9:VAL:CG2	42:BJ:94:ARG:HD3	2.42	0.50
43:BK:112:LEU:CD2	43:BK:131:GLY:HA3	2.42	0.50
43:BK:104:ARG:NH2	43:BK:138:TRP:CZ2	2.80	0.50
43:BK:21:LYS:C	43:BK:63:LEU:HD11	2.32	0.50
43:BK:89:PRO:HA	43:BK:92:ARG:HE	1.75	0.50
34:BA:1177:G:OP2	44:BL:97:LYS:HE2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BM:16:LEU:HD22	45:BM:94:VAL:HG21	1.93	0.50
47:BO:76:ASN:HD22	47:BO:77:LEU:H	1.60	0.50
48:BP:15:VAL:HG12	48:BP:19:LEU:HD23	1.92	0.50
49:BQ:13:THR:O	49:BQ:15:LYS:N	2.45	0.50
49:BQ:15:LYS:O	49:BQ:16:PHE:CD1	2.65	0.50
49:BQ:24:CYS:HB3	49:BQ:28:GLY:CA	2.41	0.50
53:BU:70:ILE:O	53:BU:74:ARG:CD	2.59	0.50
34:BA:1313:U:C5	54:BV:4:SER:CB	2.94	0.50
55:BW:48:LYS:O	55:BW:49:ALA:C	2.50	0.50
55:BW:81:LYS:O	55:BW:82:SER:C	2.50	0.50
10:AK:104:ALA:HB1	10:AK:105:GLN:NE2	2.26	0.50
10:AK:130:PRO:O	10:AK:130:PRO:HG2	2.12	0.50
10:AK:88:ARG:HB3	10:AK:122:ARG:CB	2.41	0.50
36:B1:41:U:O2'	36:B1:42:G:H5'	2.11	0.50
24:A0:20:LEU:O	24:A0:21:TYR:C	2.51	0.50
2:AA:445:C:C2'	25:A1:3:ARG:NH2	2.74	0.50
25:A1:49:ASP:CA	25:A1:52:ASN:ND2	2.69	0.50
25:A1:61:TRP:CZ3	25:A1:97:ASP:OD2	2.64	0.50
27:A3:37:LEU:HG	27:A3:71:ASN:HD22	1.77	0.50
2:AA:2256:G:C4'	27:A3:5:LYS:HE2	2.42	0.50
29:A5:14:SER:O	29:A5:15:LYS:C	2.49	0.50
30:A6:35:LEU:CD2	30:A6:35:LEU:N	2.75	0.50
32:A8:29:LYS:HZ3	32:A8:36:LYS:HZ1	1.60	0.50
2:AA:1057:A:C8	2:AA:1085:A:C6	3.00	0.50
2:AA:1063:G:N7	2:AA:1070:A:OP2	2.45	0.50
2:AA:1028:A:OP2	2:AA:1126:A:N6	2.45	0.50
2:AA:1024:G:H21	2:AA:1139:G:N2	2.04	0.50
2:AA:818:G:C5	2:AA:1187:G:N2	2.80	0.50
2:AA:443:A:C2	2:AA:1245:G:N3	2.74	0.50
2:AA:1293:C:N3	2:AA:1294:U:H5	2.10	0.50
2:AA:1301:A:O2'	2:AA:1302:A:C8	2.60	0.50
2:AA:1338:G:N3	2:AA:1339:G:C8	2.80	0.50
2:AA:1353:A:C6	2:AA:1378:A:N6	2.79	0.50
2:AA:1364:G:C5	28:A4:3:LYS:NZ	2.79	0.50
2:AA:1364:G:H22	2:AA:1366:A:H3'	1.76	0.50
2:AA:1379:A:N6	31:A7:10:ARG:CZ	2.74	0.50
2:AA:1419:A:C5	2:AA:1421:G:C5	2.99	0.50
2:AA:1522:G:N2	2:AA:1523:U:C6	2.80	0.50
2:AA:155:C:N4	2:AA:171:G:O6	2.45	0.50
2:AA:1699:G:C2'	2:AA:1700:A:H4'	2.41	0.50
2:AA:1707:G:O4'	2:AA:1756:G:O2'	2.17	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1823:G:C2	2:AA:1824:G:N7	2.80	0.50
2:AA:186:G:C6	2:AA:211:A:C6	3.00	0.50
2:AA:1919:A:OP1	2:AA:1920:C:OP2	2.28	0.50
2:AA:1997:G:C2	2:AA:1998:G:C4	3.00	0.50
2:AA:199:A:C6	2:AA:2433:A:C8	3.00	0.50
2:AA:2010:G:C6	2:AA:2011:U:C5	3.00	0.50
2:AA:2106:G:H2'	2:AA:2107:C:C6	2.47	0.50
2:AA:2215:G:C2	2:AA:2216:G:C5	3.00	0.50
2:AA:2261:C:O2'	2:AA:2262:U:H5'	2.12	0.50
2:AA:2330:G:C2'	2:AA:2331:G:H5'	2.42	0.50
2:AA:2356:C:C4	2:AA:2357:U:C4	3.00	0.50
2:AA:2456:C:H2'	2:AA:2457:U:C6	2.47	0.50
2:AA:2472:G:C2'	2:AA:2475:C:N4	2.46	0.50
2:AA:2522:U:O2	2:AA:2765:A:C5	2.65	0.50
2:AA:2603:G:C6	2:AA:2604:U:O4	2.65	0.50
2:AA:2716:U:H2'	2:AA:2717:G:O5'	2.12	0.50
2:AA:2740:A:N6	2:AA:2741:A:N1	2.59	0.50
2:AA:2758:A:H3'	2:AA:2758:A:OP2	2.12	0.50
2:AA:2881:C:N4	2:AA:2882:A:N6	2.59	0.50
2:AA:2886:G:N1	2:AA:2887:U:C4	2.79	0.50
2:AA:2808:U:C2	2:AA:2892:A:N6	2.80	0.50
2:AA:336:C:H2'	2:AA:337:C:O4'	2.12	0.50
2:AA:336:C:O2'	2:AA:337:C:C5'	2.52	0.50
2:AA:443:A:H2	2:AA:1245:G:C2	2.29	0.50
2:AA:445:C:OP1	25:A1:3:ARG:HG2	2.12	0.50
2:AA:448:U:C4	2:AA:583:G:H1'	2.47	0.50
2:AA:452:G:N3	2:AA:458:G:N2	2.60	0.50
2:AA:464:U:C5	2:AA:464:U:P	3.05	0.50
2:AA:507:A:H5'	2:AA:509:C:O4'	2.12	0.50
2:AA:16:G:O6	2:AA:524:U:C2	2.65	0.50
2:AA:774:A:H5''	2:AA:778:G:C4'	2.32	0.50
2:AA:940:G:H2'	2:AA:941:A:H5''	1.93	0.50
2:AA:961:C:C2'	2:AA:962:G:OP1	2.59	0.50
2:AA:996:A:O3'	26:A2:10:LYS:NZ	2.45	0.50
3:AC:59:ARG:HE	3:AC:139:ASN:ND2	2.10	0.50
4:AD:109:LEU:CD1	4:AD:126:GLY:HA3	2.41	0.50
4:AD:174:ARG:CB	4:AD:174:ARG:NH1	2.74	0.50
4:AD:174:ARG:NE	4:AD:180:VAL:HG13	2.27	0.50
4:AD:170:TYR:HA	4:AD:183:ILE:O	2.12	0.50
4:AD:85:ASN:CA	4:AD:86:ARG:HE	2.25	0.50
5:AE:205:THR:CG2	5:AE:259:HIS:CB	2.88	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:45:LYS:HZ1	5:AE:302:GLY:N	2.09	0.50
5:AE:47:GLY:HA2	5:AE:305:LYS:HE2	1.94	0.50
5:AE:70:VAL:HG22	5:AE:296:VAL:C	2.32	0.50
6:AF:245:GLU:O	6:AF:246:ARG:OXT	2.29	0.50
6:AF:242:GLU:CA	6:AF:245:GLU:OE1	2.57	0.50
6:AF:40:ALA:HB1	6:AF:100:LEU:CB	2.41	0.50
6:AF:54:LEU:O	6:AF:79:ARG:HD3	2.11	0.50
6:AF:81:PRO:CA	6:AF:87:ARG:NH1	2.70	0.50
2:AA:673:C:C5'	6:AF:82:GLN:NE2	2.75	0.50
7:AG:53:LYS:CG	7:AG:54:ALA:H	2.23	0.50
7:AG:97:GLN:CB	7:AG:106:PHE:CD2	2.91	0.50
8:AH:34:ARG:NH2	8:AH:74:MET:N	2.54	0.50
9:AJ:61:VAL:O	9:AJ:102:ILE:HG22	2.11	0.50
11:AL:113:MET:O	11:AL:114:PRO:O	2.28	0.50
9:AJ:74:ILE:CG2	11:AL:61:TYR:HE2	2.24	0.50
13:AN:112:MET:O	13:AN:115:ILE:HB	2.12	0.50
13:AN:38:VAL:HG13	13:AN:61:VAL:HG22	1.93	0.50
17:AR:6:CYS:O	17:AR:7:ASP:OD2	2.29	0.50
19:AT:4:VAL:HB	19:AT:40:ALA:CB	2.42	0.50
19:AT:50:GLU:CD	19:AT:69:SER:HB2	2.32	0.50
21:AV:111:GLY:O	21:AV:113:VAL:HG22	2.11	0.50
21:AV:112:LEU:HD22	21:AV:142:ASN:HA	1.93	0.50
21:AV:52:PHE:O	21:AV:65:LEU:HD21	2.11	0.50
21:AV:66:VAL:HG21	21:AV:69:VAL:HG21	1.93	0.50
34:BA:101:A:C2	34:BA:102:G:C8	2.99	0.50
34:BA:1073:U:C2	34:BA:1102:A:N1	2.79	0.50
34:BA:1108:G:C8	34:BA:1109:C:C5	2.99	0.50
34:BA:1113:C:O5'	34:BA:1113:C:C6	2.52	0.50
34:BA:1144:G:C2	34:BA:1145:C:O2	2.64	0.50
34:BA:1175:G:N1	34:BA:1176:A:C6	2.80	0.50
34:BA:1117:G:C4	34:BA:1184:G:C2	3.00	0.50
34:BA:1246:C:H2'	34:BA:1247:U:H6	1.77	0.50
34:BA:1288:A:N1	34:BA:1371:G:H1'	2.26	0.50
34:BA:1295:G:H21	34:BA:1302:U:H3	1.59	0.50
34:BA:1308:U:P	48:BP:99:ARG:HG3	2.52	0.50
34:BA:1354:C:O5'	34:BA:1354:C:H6	1.93	0.50
34:BA:1375:A:N3	34:BA:1376:U:C6	2.80	0.50
34:BA:1516:G:C2	34:BA:1518:A:OP2	2.64	0.50
34:BA:229:U:C4	34:BA:230:G:C6	3.00	0.50
34:BA:258:G:O2'	34:BA:259:G:C5'	2.60	0.50
34:BA:362:G:N3	34:BA:364:A:N7	2.60	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:666:G:C2'	34:BA:667:G:H5'	2.42	0.50
34:BA:755:G:C2'	34:BA:756:C:C6	2.93	0.50
34:BA:769:G:N2	34:BA:900:A:H61	2.08	0.50
34:BA:83:U:C4	34:BA:84:U:C4	3.00	0.50
34:BA:861:G:O2'	34:BA:862:C:H5'	2.12	0.50
34:BA:885:G:C2	34:BA:913:A:C2	3.00	0.50
34:BA:921:U:O2	34:BA:921:U:H2'	2.11	0.50
37:BE:93:VAL:HG21	37:BE:101:MET:HE1	1.93	0.50
37:BE:207:ALA:C	37:BE:209:ARG:N	2.65	0.50
37:BE:23:ARG:NH1	37:BE:24:TRP:CA	2.75	0.50
38:BF:28:GLN:O	38:BF:29:TYR:C	2.50	0.50
38:BF:52:LEU:O	38:BF:53:ALA:CB	2.59	0.50
38:BF:73:PRO:O	38:BF:76:VAL:CB	2.59	0.50
38:BF:98:ASN:C	38:BF:99:VAL:HG13	2.32	0.50
39:BG:52:SER:O	39:BG:53:ASP:C	2.49	0.50
40:BH:141:GLN:CA	40:BH:143:ARG:HH21	2.07	0.50
41:BI:2:ARG:HG3	41:BI:69:GLU:HG2	1.94	0.50
41:BI:75:LEU:HD13	41:BI:75:LEU:C	2.32	0.50
42:BJ:136:LYS:O	42:BJ:137:LYS:C	2.48	0.50
44:BL:11:LYS:NZ	44:BL:108:VAL:HG11	2.26	0.50
34:BA:1368:G:OP1	44:BL:112:LYS:O	2.29	0.50
44:BL:9:ARG:HG2	44:BL:14:VAL:HG13	1.92	0.50
34:BA:1280:A:C8	45:BM:41:PRO:HG3	2.47	0.50
47:BO:101:VAL:O	47:BO:104:VAL:CB	2.60	0.50
47:BO:76:ASN:O	47:BO:77:LEU:HB2	2.11	0.50
48:BP:88:ARG:HA	48:BP:91:ARG:HB2	1.94	0.50
55:BW:91:LEU:C	55:BW:93:GLU:N	2.64	0.50
35:BB:37:G:H8	35:BB:38:A:OP2	1.94	0.50
2:AA:1508:A:C2'	2:AA:1509:C:H5	2.19	0.50
2:AA:1510:A:H8	2:AA:1511:A:N6	2.10	0.50
10:AK:62:LEU:C	10:AK:66:LYS:CE	2.80	0.50
1:AB:35:U:O5'	1:AB:35:U:H6	1.95	0.50
1:AB:1:U:C6	1:AB:1:U:H5''	2.46	0.50
11:AL:63:ASP:O	11:AL:64:LYS:HB2	2.12	0.50
24:A0:33:ARG:HB2	24:A0:113:LEU:HD11	1.94	0.50
24:A0:67:LEU:C	24:A0:69:ASP:N	2.64	0.50
25:A1:55:ARG:CA	25:A1:58:ARG:HG3	2.34	0.50
26:A2:49:GLU:O	26:A2:54:TYR:CE1	2.64	0.50
27:A3:26:PHE:N	27:A3:26:PHE:HD1	2.07	0.50
2:AA:2353:G:O2'	27:A3:30:VAL:O	2.29	0.50
28:A4:58:LYS:HG2	28:A4:62:ARG:HE	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:A6:19:GLY:CA	30:A6:42:PRO:CG	2.72	0.50
30:A6:26:LYS:CE	32:A8:35:GLY:CA	2.83	0.50
2:AA:592:G:H21	32:A8:3:LYS:HE3	1.76	0.50
2:AA:1024:G:O6	2:AA:1134:G:H1'	2.12	0.50
2:AA:1170:G:N1	2:AA:1180:C:N4	2.60	0.50
2:AA:1180:C:O2'	2:AA:1181:C:C5'	2.60	0.50
2:AA:1203:G:N7	2:AA:1206:G:N7	2.60	0.50
2:AA:1219:G:C5	2:AA:1231:G:N1	2.79	0.50
2:AA:1475:G:H3'	2:AA:1475:G:C4	2.47	0.50
2:AA:1527:G:H8	2:AA:1527:G:O5'	1.95	0.50
2:AA:1608:A:C6	2:AA:1611:C:H1'	2.47	0.50
2:AA:1640:C:OP2	2:AA:1640:C:H3'	2.11	0.50
2:AA:1670:C:H6	2:AA:1670:C:O5'	1.95	0.50
2:AA:1673:U:C5	2:AA:1675:C:H6	2.29	0.50
2:AA:1690:A:C2	2:AA:1691:C:C1'	2.94	0.50
2:AA:1685:C:N3	2:AA:1703:G:O6	2.45	0.50
2:AA:752:A:N7	2:AA:1781:C:H1'	2.23	0.50
2:AA:1965:C:C5'	2:AA:1966:A:H3'	2.41	0.50
2:AA:2018:G:N3	2:AA:2018:G:H2'	2.26	0.50
2:AA:2117:A:N3	2:AA:2118:U:H4'	2.27	0.50
2:AA:2119:A:OP1	2:AA:2120:G:H5''	2.11	0.50
2:AA:911:A:N9	2:AA:2264:C:H1'	2.21	0.50
2:AA:2347:C:H4'	30:A6:40:TYR:CZ	2.46	0.50
2:AA:2354:G:H4'	27:A3:31:VAL:HG21	1.94	0.50
2:AA:2356:C:H3'	2:AA:2356:C:C6	2.47	0.50
2:AA:2384:G:C2'	2:AA:2385:C:OP1	2.59	0.50
2:AA:2400:G:O5'	2:AA:2400:G:H8	1.94	0.50
2:AA:2489:G:C8	2:AA:2490:G:N7	2.79	0.50
2:AA:23:G:C2	2:AA:24:G:H1'	2.47	0.50
2:AA:2604:U:N3	2:AA:2605:U:C5	2.80	0.50
2:AA:270(F):U:C2	2:AA:270(U):C:N3	2.79	0.50
2:AA:270(W):G:C3'	2:AA:270(X):G:H8	2.24	0.50
2:AA:2785:C:HO2'	5:AE:100:TRP:N	2.10	0.50
2:AA:2893:G:P	2:AA:2893:G:O4'	2.69	0.50
2:AA:34:C:O4'	20:AU:8:ARG:NH1	2.40	0.50
2:AA:428:A:H3'	2:AA:429:A:H8	1.75	0.50
2:AA:435:C:C2'	2:AA:436:C:H5'	2.42	0.50
2:AA:445:C:OP1	25:A1:2:PRO:N	2.45	0.50
2:AA:461:C:N4	2:AA:469:G:N2	2.58	0.50
2:AA:514:A:O3'	25:A1:32:TYR:OH	2.19	0.50
2:AA:522:G:H2'	2:AA:523:C:C6	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:527:C:C5	2:AA:2779:U:H3'	2.47	0.50
2:AA:595:C:H2'	2:AA:596:G:O5'	2.12	0.50
2:AA:671:C:N4	2:AA:809:G:C6	2.77	0.50
2:AA:729:G:C6	2:AA:1775:U:C4	2.99	0.50
2:AA:762:U:H4'	2:AA:763:G:O5'	2.12	0.50
2:AA:960:A:H5''	2:AA:961:C:OP1	2.11	0.50
2:AA:992:C:N3	2:AA:993:G:H8	2.10	0.50
1:AB:117:G:N1	1:AB:118:G:C5	2.80	0.50
1:AB:42:C:C2'	1:AB:43:C:C6	2.93	0.50
3:AC:123:VAL:HG11	3:AC:138:PRO:CG	2.41	0.50
3:AC:127:LEU:HA	3:AC:130:ILE:HB	1.93	0.50
3:AC:42:GLU:CB	3:AC:173:ALA:O	2.60	0.50
3:AC:22:ILE:HD12	3:AC:190:ARG:NH1	2.27	0.50
4:AD:104:ILE:CD1	4:AD:106:PRO:HG2	2.41	0.50
4:AD:175:LEU:CG	4:AD:180:VAL:HA	2.37	0.50
4:AD:66:PHE:C	4:AD:67:LYS:CD	2.71	0.50
5:AE:174:LEU:C	5:AE:177:ALA:HB3	2.24	0.50
5:AE:211:GLN:NE2	5:AE:215:LYS:CG	2.74	0.50
5:AE:214:VAL:CG1	5:AE:221:LYS:HD2	2.32	0.50
2:AA:1993:U:H5''	5:AE:228:ARG:HE	1.75	0.50
5:AE:74:GLU:N	5:AE:74:GLU:OE2	2.45	0.50
7:AG:56:ARG:HG2	7:AG:65:GLU:HG3	1.93	0.50
8:AH:163:TYR:CD1	8:AH:163:TYR:N	2.62	0.50
8:AH:48:VAL:C	8:AH:49:ILE:HG13	2.32	0.50
9:AJ:62:VAL:HG22	9:AJ:101:VAL:CG2	2.39	0.50
10:AK:19:LYS:CE	10:AK:20:ASN:H	2.25	0.50
9:AI:7:ILE:HD11	11:AL:118:ALA:N	2.26	0.50
12:AM:4:ALA:O	12:AM:6:PHE:CE1	2.64	0.50
13:AN:58:VAL:CG1	13:AN:59:LYS:N	2.71	0.50
14:AO:132:LYS:CD	14:AO:132:LYS:H	2.25	0.50
14:AO:81:VAL:HG22	14:AO:92:ASP:OD2	2.12	0.50
14:AO:92:ASP:H	14:AO:118:LEU:HA	1.76	0.50
15:AP:67:ALA:N	15:AP:70:ARG:NH1	2.59	0.50
16:AQ:24:LEU:HA	16:AQ:27:LEU:CB	2.42	0.50
17:AR:5:GLU:CD	17:AR:56:ARG:NH2	2.65	0.50
19:AT:7:HIS:N	19:AT:27:ALA:HB3	2.26	0.50
20:AU:22:GLN:O	20:AU:23:VAL:C	2.50	0.50
20:AU:31:LEU:HB3	20:AU:101:LEU:CD1	2.35	0.50
20:AU:49:GLU:CD	20:AU:58:GLU:C	2.71	0.50
21:AV:117:VAL:HG11	21:AV:167:THR:CG2	2.42	0.50
22:AW:3:LEU:CB	22:AW:8:ILE:HD11	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1117:G:H1'	34:BA:1184:G:N2	2.26	0.50
34:BA:1149:C:H2'	34:BA:1280:A:N1	2.27	0.50
34:BA:945:G:C2	34:BA:1337:G:C2	3.00	0.50
34:BA:1379:G:O2'	34:BA:1380:U:H5'	2.12	0.50
34:BA:1421:G:C6	34:BA:1480:G:C6	3.00	0.50
34:BA:1451:A:C5'	34:BA:1452:C:H5	2.24	0.50
34:BA:1451:A:P	34:BA:1451:A:C8	3.04	0.50
34:BA:1486:G:C6	34:BA:1487:G:C5	3.00	0.50
34:BA:1538:C:H2'	34:BA:1539:C:H6	1.77	0.50
34:BA:219:C:C4	34:BA:220:G:C8	3.00	0.50
34:BA:286:G:C4	34:BA:287:U:C5	2.99	0.50
34:BA:383:A:H2'	34:BA:384:G:C5'	2.42	0.50
34:BA:445:G:H2'	34:BA:446:G:C8	2.41	0.50
34:BA:25:C:C4'	34:BA:524:G:H21	2.24	0.50
34:BA:684:A:H1'	46:BN:39:PRO:HD2	1.94	0.50
34:BA:715:A:O4'	34:BA:777:A:N6	2.45	0.50
34:BA:809:G:N2	34:BA:810:C:H1'	2.27	0.50
34:BA:757:U:H1'	34:BA:879:C:C1'	2.40	0.50
34:BA:922:G:O2'	34:BA:923:A:C5'	2.56	0.50
35:BB:15:G:C2'	35:BB:16:U:H5"	2.41	0.50
35:BB:53:G:N3	35:BB:54:U:C5	2.78	0.50
38:BF:159:GLY:O	38:BF:160:ALA:C	2.50	0.50
39:BG:118:ARG:HG3	39:BG:118:ARG:NH2	2.26	0.50
39:BG:119:GLN:HG2	39:BG:123:HIS:HD2	1.76	0.50
39:BG:191:ARG:HH22	39:BG:196:LEU:HB3	1.76	0.50
40:BH:121:LYS:HG3	40:BH:122:GLU:N	2.27	0.50
40:BH:95:ALA:CB	40:BH:96:PRO:HD2	2.38	0.50
41:BI:10:LEU:CD2	41:BI:26:ILE:HD11	2.40	0.50
41:BI:97:PHE:O	41:BI:97:PHE:CD2	2.65	0.50
42:BJ:122:HIS:O	42:BJ:123:GLU:O	2.30	0.50
42:BJ:150:ALA:C	42:BJ:152:ALA:N	2.62	0.50
43:BK:129:VAL:HG22	43:BK:130:GLY:N	2.22	0.50
43:BK:24:THR:N	43:BK:60:ARG:HD2	2.27	0.50
43:BK:39:LEU:HB3	43:BK:45:ILE:HG22	1.85	0.50
43:BK:40:ALA:C	43:BK:42:GLU:H	2.14	0.50
44:BL:52:ALA:O	44:BL:95:LYS:CE	2.60	0.50
48:BP:8:GLU:C	48:BP:10:PRO:HD2	2.32	0.50
48:BP:39:ILE:O	48:BP:40:ASN:C	2.50	0.50
49:BQ:25:VAL:CB	49:BQ:38:GLY:O	2.60	0.50
49:BQ:4:LYS:HA	49:BQ:7:ILE:CD1	2.42	0.50
34:BA:130:A:H8	52:BT:63:ARG:HG3	1.66	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BU:73:ALA:O	53:BU:74:ARG:C	2.45	0.50
54:BV:24:ALA:C	54:BV:26:GLY:N	2.65	0.50
54:BV:53:ASN:ND2	54:BV:53:ASN:N	2.59	0.50
54:BV:46:GLY:N	54:BV:62:ILE:CG2	2.70	0.50
55:BW:50:GLU:O	55:BW:54:LYS:HG3	2.12	0.50
10:AK:79:ILE:CD1	10:AK:144:HIS:O	2.59	0.50
10:AK:77:VAL:HG12	10:AK:143:VAL:HG13	1.92	0.50
1:AB:12:C:H5'	27:A3:53:MET:CE	2.39	0.50
40:BH:39:GLY:HA2	40:BH:69:VAL:CG2	2.42	0.50
37:BE:135:GLN:NE2	37:BE:135:GLN:N	2.60	0.50
36:B1:23:U:O2	36:B1:31:G:N2	2.29	0.50
2:AA:1279:G:H5'	24:A0:31:HIS:CD2	2.46	0.49
25:A1:115:ASN:H	25:A1:115:ASN:ND2	2.10	0.49
25:A1:49:ASP:C	25:A1:53:LYS:CE	2.78	0.49
25:A1:79:PHE:HB3	25:A1:83:LEU:CD1	2.42	0.49
26:A2:5:ILE:O	26:A2:40:VAL:CG2	2.60	0.49
25:A1:50:ARG:CZ	26:A2:74:TYR:CD2	2.92	0.49
27:A3:24:LYS:O	27:A3:25:LYS:HB2	2.12	0.49
2:AA:2364:C:H5'	27:A3:38:VAL:HG13	1.94	0.49
31:A7:38:GLY:C	31:A7:40:HIS:CE1	2.85	0.49
2:AA:459:U:OP1	31:A7:40:HIS:N	2.45	0.49
2:AA:1021:A:C8	12:AM:49:ARG:NH1	2.80	0.49
2:AA:1062:G:C4	11:AL:134:SER:OG	2.65	0.49
2:AA:1152:C:C5'	25:A1:80:ILE:HB	2.42	0.49
2:AA:138:G:H2'	2:AA:140:A:OP2	2.12	0.49
2:AA:1517:G:H2'	2:AA:1518:C:H5'	1.93	0.49
2:AA:1518:C:N3	2:AA:1519:G:H1'	2.27	0.49
2:AA:1608:A:C4	2:AA:1611:C:C5	2.99	0.49
2:AA:1672:C:C5	2:AA:1673:U:C5	3.00	0.49
2:AA:1807:G:H21	2:AA:1809:A:C4'	2.25	0.49
2:AA:1829:A:H5'	2:AA:1830:C:OP2	2.11	0.49
2:AA:1843:C:C2	2:AA:1844:C:H5	2.29	0.49
2:AA:1846:G:H2'	2:AA:1847:A:O4'	2.12	0.49
2:AA:1939:U:O3'	2:AA:1939:U:OP2	2.30	0.49
2:AA:194:G:H2'	2:AA:194:G:N3	2.27	0.49
2:AA:1772:G:C2	2:AA:1980:G:C2	3.00	0.49
2:AA:2018:G:C2'	2:AA:2019:A:O5'	2.59	0.49
2:AA:2074:U:N3	2:AA:2075:U:O4	2.45	0.49
2:AA:2074:U:C2'	2:AA:2074:U:O2	2.59	0.49
2:AA:2095:C:N3	2:AA:2194:G:C6	2.75	0.49
2:AA:2138:C:C2	2:AA:2139:C:C6	3.00	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2135:A:C2'	2:AA:2152:G:N7	2.64	0.49
2:AA:2218:G:C4	2:AA:2219:G:C8	3.00	0.49
2:AA:2250:G:H5'	15:AP:102:ARG:CD	2.39	0.49
2:AA:2478:A:C8	2:AA:2478:A:H3'	2.47	0.49
2:AA:2515:C:N4	2:AA:2570:G:O6	2.45	0.49
2:AA:2553:G:C6	2:AA:2554:U:O2	2.65	0.49
2:AA:221:A:O2'	2:AA:271(B):G:N1	2.44	0.49
2:AA:2688:U:H1'	2:AA:2721:A:N6	2.27	0.49
2:AA:30:G:H2'	2:AA:31:C:O4'	2.12	0.49
2:AA:30:G:OP1	25:A1:8:ILE:HD11	2.12	0.49
2:AA:343:C:H2'	2:AA:344:G:O4'	2.11	0.49
2:AA:564:C:H41	2:AA:573:G:C5'	2.25	0.49
2:AA:576:U:H2'	2:AA:577:G:C8	2.46	0.49
2:AA:588:U:C5	2:AA:589:C:C5	2.90	0.49
2:AA:606:U:OP1	6:AF:104:ASP:CB	2.53	0.49
2:AA:650:C:C2'	2:AA:651:G:H5'	2.42	0.49
2:AA:702:G:N1	2:AA:731:C:C4	2.80	0.49
2:AA:71:A:O2'	19:AT:2:TRP:HZ2	1.95	0.49
2:AA:779:U:C4	2:AA:780:G:C6	3.00	0.49
2:AA:776:G:N3	2:AA:793:A:C6	2.80	0.49
2:AA:806:C:O3'	2:AA:830:G:N2	2.45	0.49
2:AA:857:C:N4	2:AA:920:G:N1	2.43	0.49
2:AA:914:C:C2'	2:AA:915:C:H5'	2.37	0.49
2:AA:943:U:C6	2:AA:943:U:C3'	2.95	0.49
1:AB:27:C:N3	1:AB:28:C:N3	2.60	0.49
1:AB:28:C:O2'	1:AB:29:A:O4'	2.24	0.49
3:AC:116:THR:HG22	3:AC:149:ILE:CB	2.37	0.49
3:AC:41:VAL:HA	3:AC:215:THR:O	2.12	0.49
4:AD:174:ARG:NE	4:AD:180:VAL:CG1	2.75	0.49
4:AD:81:GLU:O	4:AD:90:ILE:O	2.28	0.49
5:AE:222:ARG:HD3	5:AE:232:ARG:HA	1.94	0.49
5:AE:269:ILE:HD12	5:AE:296:VAL:HA	1.93	0.49
5:AE:319:ASP:O	5:AE:320:GLN:O	2.29	0.49
6:AF:195:VAL:HG21	6:AF:235:PHE:CG	2.47	0.49
6:AF:197:SER:CB	6:AF:239:ALA:H	2.17	0.49
8:AH:121:GLU:OE2	8:AH:133:LYS:O	2.30	0.49
8:AH:12:ALA:O	8:AH:14:VAL:N	2.45	0.49
8:AH:164:GLU:HA	8:AH:164:GLU:OE1	1.93	0.49
9:AI:111:ALA:HA	9:AI:114:ILE:HD12	1.94	0.49
2:AA:1104:C:H1'	9:AI:29:PHE:CD2	2.46	0.49
9:AI:2:THR:OG1	9:AI:5:GLU:HG3	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:86:LYS:HE3	11:AL:10:LYS:CG	2.30	0.49
11:AL:75:ALA:O	11:AL:76:SER:C	2.49	0.49
11:AL:99:LYS:HD2	11:AL:99:LYS:H	1.76	0.49
12:AM:29:GLN:O	12:AM:30:ALA:O	2.30	0.49
13:AN:7:ARG:HA	13:AN:44:LYS:HZ1	1.76	0.49
14:AO:62:ALA:H	14:AO:107:LYS:HG3	1.77	0.49
15:AP:72:VAL:HG22	15:AP:135:ALA:HB1	1.94	0.49
15:AP:26:LYS:O	15:AP:28:ILE:HG12	2.12	0.49
16:AQ:22:GLN:OE1	16:AQ:22:GLN:C	2.49	0.49
17:AR:14:GLU:CB	17:AR:15:PRO:HD2	2.31	0.49
18:AS:66:GLU:HG2	18:AS:67:ASP:N	2.26	0.49
18:AS:69:LEU:HD23	18:AS:109:GLU:CB	2.40	0.49
19:AT:24:LEU:HD12	19:AT:24:LEU:N	2.27	0.49
2:AA:1341:U:H2'	19:AT:53:ASN:OD1	2.12	0.49
21:AV:142:ASN:O	21:AV:171:VAL:CG2	2.56	0.49
34:BA:1064:G:H1'	34:BA:1066:C:C2	2.46	0.49
34:BA:1068:G:N7	34:BA:1094:G:N7	2.60	0.49
34:BA:115:G:C2	34:BA:289:G:C8	3.00	0.49
34:BA:1226:C:O2'	34:BA:1227:A:P	2.70	0.49
34:BA:1240:U:C4	42:BJ:32:ARG:NH2	2.80	0.49
34:BA:1256:A:H2	34:BA:1258:G:N1	2.10	0.49
34:BA:67:C:H4'	34:BA:172:A:O4'	2.12	0.49
34:BA:118:U:C3'	34:BA:288:A:H61	2.13	0.49
34:BA:300:A:C2'	34:BA:301:G:C5'	2.80	0.49
34:BA:478:A:C3'	34:BA:478:A:C8	2.95	0.49
34:BA:486:U:O2	34:BA:486:U:C2'	2.61	0.49
34:BA:499:A:C4	34:BA:547:A:N1	2.80	0.49
34:BA:541:G:H2'	34:BA:542:G:C8	2.46	0.49
34:BA:620:C:O2'	34:BA:621:A:H5'	2.12	0.49
34:BA:689:C:H2'	34:BA:690:G:O5'	2.12	0.49
34:BA:975:A:O5'	34:BA:976:G:H5'	2.12	0.49
34:BA:1400:C:C1'	35:BC:34:G:N2	2.72	0.49
37:BE:180:LEU:O	37:BE:181:PHE:CB	2.52	0.49
37:BE:68:ILE:HG21	37:BE:70:PHE:CZ	2.47	0.49
38:BF:188:LEU:HD13	38:BF:189:ALA:H	1.77	0.49
38:BF:191:THR:C	38:BF:193:TYR:H	2.15	0.49
38:BF:49:SER:C	38:BF:51:GLY:H	2.14	0.49
39:BG:8:VAL:C	39:BG:10:ARG:H	2.14	0.49
39:BG:170:VAL:HG12	39:BG:174:LEU:HB2	1.94	0.49
34:BA:409:G:H4'	39:BG:24:GLU:OE2	2.12	0.49
40:BH:114:GLY:C	40:BH:115:VAL:HG22	2.31	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BH:95:ALA:O	40:BH:96:PRO:O	2.29	0.49
41:BI:75:LEU:HD22	41:BI:79:LEU:HD21	1.93	0.49
42:BJ:146:GLU:CG	42:BJ:149:ARG:NH2	2.58	0.49
42:BJ:45:ASP:C	42:BJ:49:ILE:HD12	2.33	0.49
43:BK:11:THR:O	43:BK:12:ARG:C	2.49	0.49
43:BK:111:ILE:HB	43:BK:135:CYS:O	2.11	0.49
43:BK:9:MET:CG	43:BK:26:VAL:HG21	2.41	0.49
43:BK:6:ILE:HG13	43:BK:85:ARG:CZ	2.42	0.49
44:BL:3:GLN:HB2	44:BL:20:ARG:CG	2.42	0.49
46:BN:40:ILE:C	46:BN:41:THR:HG23	2.33	0.49
34:BA:691:G:H22	46:BN:52:GLY:HA2	1.76	0.49
48:BP:96:LEU:CA	48:BP:110:ARG:HG2	2.42	0.49
52:BT:36:ILE:HG12	52:BT:36:ILE:O	2.11	0.49
52:BT:19:VAL:HG21	52:BT:46:ASP:HB2	1.93	0.49
52:BT:75:ARG:NH1	52:BT:76:LEU:C	2.65	0.49
10:AK:141:LEU:CD1	10:AK:143:VAL:HG23	2.41	0.49
3:AC:184:LYS:HA	3:AC:187:ASP:HB2	1.94	0.49
18:AS:86:LEU:HB3	18:AS:87:PRO:HD2	1.93	0.49
36:B1:14:U:H5''	36:B1:38:C:N3	2.27	0.49
11:AL:51:GLY:O	11:AL:81:LYS:CE	2.60	0.49
15:AP:129:ASP:O	15:AP:129:ASP:OD1	2.30	0.49
24:A0:101:ALA:HB2	29:A5:44:HIS:CB	2.40	0.49
25:A1:79:PHE:O	25:A1:83:LEU:CB	2.47	0.49
26:A2:38:LEU:HA	26:A2:58:ALA:HB2	1.92	0.49
26:A2:15:SER:HB2	26:A2:99:GLN:CD	2.32	0.49
28:A4:18:GLY:N	28:A4:33:VAL:HB	2.27	0.49
31:A7:33:ARG:O	31:A7:37:LYS:CB	2.59	0.49
2:AA:247:G:N2	32:A8:8:LYS:CE	2.75	0.49
2:AA:1087:G:N3	2:AA:1103:A:C4	2.80	0.49
2:AA:1395:A:C6	2:AA:1398:C:C2	3.00	0.49
2:AA:1472:A:C6	2:AA:1473:G:O6	2.65	0.49
2:AA:1529:A:C4	2:AA:1530:G:O4'	2.65	0.49
2:AA:1572:A:O4'	2:AA:1572:A:OP1	2.31	0.49
2:AA:1287:A:C6	2:AA:1649:G:C1'	2.95	0.49
2:AA:1668:A:C3'	2:AA:1669:A:H5'	2.43	0.49
2:AA:1683:C:C4	2:AA:1684:C:N4	2.79	0.49
2:AA:1792:G:C6	2:AA:1793:C:C5	3.00	0.49
2:AA:1806:C:C4	2:AA:1807:G:C8	2.99	0.49
2:AA:1819:A:H1'	2:AA:1821:A:N7	2.27	0.49
2:AA:1918:A:H8	2:AA:1918:A:P	2.34	0.49
2:AA:1921:G:O2'	2:AA:1922:G:H5'	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1978:A:C6	2:AA:1979:C:C4	3.00	0.49
2:AA:2030:A:O2'	2:AA:2031:A:O5'	2.29	0.49
2:AA:2148:G:OP2	2:AA:2149:G:OP2	2.30	0.49
2:AA:2253:G:H2'	2:AA:2254:C:C5	2.43	0.49
2:AA:2287:A:C2'	2:AA:2288:A:O5'	2.60	0.49
2:AA:2376:A:H61	16:AQ:109:PRO:HG2	1.77	0.49
2:AA:2424:C:H5'	2:AA:2425:A:C5'	2.37	0.49
2:AA:2489:G:O2'	2:AA:2490:G:O4'	2.29	0.49
2:AA:250:G:H3'	32:A8:8:LYS:HZ3	1.76	0.49
2:AA:2553:G:C8	2:AA:2554:U:O4'	2.65	0.49
2:AA:2603:G:H2'	2:AA:2604:U:O4'	2.12	0.49
2:AA:2611:U:O2	29:A5:2:ALA:HA	2.12	0.49
2:AA:2616:C:HO2'	2:AA:2617:C:H5'	1.75	0.49
2:AA:2649:U:C2	2:AA:2672:G:N2	2.80	0.49
2:AA:2783:G:O2'	2:AA:2784:C:H5'	2.11	0.49
2:AA:2844:G:C4	2:AA:2845:G:C8	2.99	0.49
2:AA:385:C:H42	2:AA:391:G:H1	1.59	0.49
2:AA:270:A:N6	2:AA:424:G:C5	2.80	0.49
2:AA:447:A:O2'	2:AA:448:U:C5'	2.61	0.49
2:AA:502:A:C2'	2:AA:503:A:H5'	2.42	0.49
2:AA:583:G:C6	2:AA:584:C:C5	3.00	0.49
2:AA:878:A:C4	2:AA:879:G:C8	2.99	0.49
2:AA:892:G:C6	2:AA:893:C:C4	3.00	0.49
2:AA:899:A:N1	2:AA:900:A:C2	2.80	0.49
2:AA:911:A:OP1	2:AA:912:C:H6	1.95	0.49
2:AA:950:G:C4	2:AA:951:C:C5	3.00	0.49
1:AB:72:G:H21	1:AB:104:A:H62	1.60	0.49
1:AB:9:G:OP1	16:AQ:37:ARG:NH2	2.45	0.49
2:AA:1818:U:C5	4:AD:155:ARG:NH2	2.80	0.49
5:AE:109:ASP:OD1	5:AE:112:LEU:CB	2.60	0.49
5:AE:228:ARG:O	5:AE:229:GLN:C	2.51	0.49
5:AE:256:THR:HB	5:AE:259:HIS:CE1	2.47	0.49
5:AE:71:THR:OG1	5:AE:299:SER:CB	2.61	0.49
6:AF:145:GLU:HG3	6:AF:196:THR:CG2	2.41	0.49
7:AG:105:SER:OG	7:AG:131:THR:CA	2.56	0.49
7:AG:13:MET:HG3	7:AG:137:PRO:CG	2.41	0.49
7:AG:13:MET:HB3	7:AG:14:ARG:HD2	1.94	0.49
2:AA:2306:C:C2	7:AG:27:ILE:HA	2.47	0.49
7:AG:63:ILE:CG2	7:AG:64:ARG:N	2.75	0.49
9:AI:106:VAL:CG1	9:AI:110:GLU:HB2	2.42	0.49
10:AK:21:VAL:O	10:AK:22:ALA:O	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:106:LEU:H	13:AN:106:LEU:CD2	2.20	0.49
16:AQ:16:ALA:O	16:AQ:18:THR:N	2.30	0.49
16:AQ:61:ALA:O	16:AQ:62:HIS:ND1	2.45	0.49
16:AQ:87:LEU:O	16:AQ:88:ALA:C	2.51	0.49
18:AS:96:ILE:HD12	18:AS:96:ILE:O	2.12	0.49
19:AT:32:ALA:HB1	19:AT:36:GLU:HB2	1.93	0.49
19:AT:56:ASN:ND2	19:AT:62:LYS:HE3	2.19	0.49
19:AT:72:ASP:HB2	19:AT:75:GLN:HE21	1.75	0.49
2:AA:310:A:OP1	20:AU:52:ARG:HB3	2.12	0.49
21:AV:99:HIS:O	21:AV:137:ASP:CG	2.51	0.49
21:AV:44:ARG:O	21:AV:45:GLN:C	2.49	0.49
21:AV:86:VAL:O	21:AV:128:ARG:HD3	2.12	0.49
22:AW:4:HIS:O	22:AW:7:GLU:OE2	2.30	0.49
22:AW:6:GLN:O	22:AW:9:ARG:CB	2.60	0.49
34:BA:101:A:C2	34:BA:102:G:N7	2.80	0.49
34:BA:1062:U:C2	34:BA:1063:C:N4	2.80	0.49
34:BA:1240:U:N1	42:BJ:32:ARG:NH2	2.55	0.49
34:BA:1334:G:H2'	34:BA:1335:C:C5'	2.42	0.49
34:BA:1440:C:C2'	34:BA:1441:G:H8	2.25	0.49
34:BA:1468:A:H3'	34:BA:1468:A:C8	2.47	0.49
34:BA:1475:G:C2	34:BA:1476:G:C4	3.00	0.49
34:BA:161:A:O2'	34:BA:162:A:H5'	2.12	0.49
34:BA:195:A:H4'	55:BW:68:LYS:CE	2.42	0.49
34:BA:238:G:C2	34:BA:239:U:C2	3.01	0.49
34:BA:276:G:O3'	52:BT:68:ARG:NH1	2.38	0.49
34:BA:319:G:O2'	34:BA:320:C:C5'	2.59	0.49
34:BA:325:A:H2'	34:BA:326:G:C5'	2.43	0.49
34:BA:439:A:H2'	34:BA:440:A:O5'	2.12	0.49
34:BA:50:A:C6	34:BA:361:G:O4'	2.66	0.49
34:BA:597:G:C5	34:BA:598:U:C5	3.00	0.49
34:BA:614:A:H2'	34:BA:615:C:O4'	2.12	0.49
34:BA:61:G:C6	34:BA:62:U:N3	2.80	0.49
34:BA:627:G:O2'	34:BA:628:G:C5'	2.60	0.49
34:BA:670:G:C2'	34:BA:671:G:O5'	2.60	0.49
34:BA:673:G:O2'	34:BA:674:G:C8	2.63	0.49
34:BA:708:C:C2'	34:BA:709:G:H5'	2.41	0.49
34:BA:735:C:H2'	34:BA:736:C:O5'	2.12	0.49
34:BA:812:C:O2'	34:BA:813:U:P	2.70	0.49
34:BA:575:G:N2	34:BA:880:C:N3	2.45	0.49
34:BA:929:G:C6	34:BA:930:C:C4	3.00	0.49
34:BA:952:U:H5'	34:BA:972:C:N4	2.21	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:74:C:C5	35:BB:75:C:C1'	2.94	0.49
38:BF:121:ALA:HB2	38:BF:187:ALA:HB3	1.94	0.49
38:BF:43:LEU:HD21	38:BF:68:VAL:HG21	1.94	0.49
39:BG:19:LEU:HB3	39:BG:21:LEU:HD12	1.94	0.49
40:BH:78:HIS:CD2	40:BH:142:LEU:HD23	2.46	0.49
40:BH:143:ARG:NH1	43:BK:77:GLU:OE1	2.45	0.49
42:BJ:146:GLU:HG2	42:BJ:149:ARG:NE	2.26	0.49
45:BM:32:ALA:O	45:BM:33:GLN:CG	2.56	0.49
45:BM:72:VAL:HG12	45:BM:73:ASP:N	2.26	0.49
46:BN:14:VAL:O	46:BN:15:ALA:HB3	2.12	0.49
47:BO:53:ARG:NH1	47:BO:93:LEU:CD2	2.53	0.49
48:BP:19:LEU:CD1	48:BP:25:ILE:HG21	2.42	0.49
48:BP:29:ARG:HH11	48:BP:66:LEU:CD2	2.26	0.49
48:BP:36:LYS:CB	48:BP:59:TYR:OH	2.60	0.49
48:BP:9:ILE:N	48:BP:10:PRO:CD	2.74	0.49
49:BQ:13:THR:C	49:BQ:15:LYS:N	2.65	0.49
50:BR:49:ASP:O	50:BR:49:ASP:OD1	2.30	0.49
50:BR:75:PRO:HA	50:BR:78:TYR:CB	2.42	0.49
51:BS:28:ARG:CD	51:BS:29:ASP:OD2	2.46	0.49
52:BT:10:VAL:O	52:BT:53:LEU:CD1	2.58	0.49
54:BV:47:HIS:N	54:BV:62:ILE:CG2	2.75	0.49
55:BW:48:LYS:O	55:BW:49:ALA:O	2.30	0.49
10:AK:148:GLN:OE1	10:AK:149:LYS:N	2.45	0.49
10:AK:83:ALA:O	10:AK:90:PHE:CZ	2.65	0.49
37:BE:135:GLN:HE21	37:BE:135:GLN:N	2.09	0.49
50:BR:26:GLU:N	50:BR:26:GLU:OE2	2.45	0.49
40:BH:50:GLU:HB2	40:BH:53:LEU:CD2	2.42	0.49
2:AA:2156:G:O5'	2:AA:2156:G:H8	1.91	0.49
10:AK:126:TYR:H	10:AK:126:TYR:HD1	1.60	0.49
27:A3:4:LYS:HZ1	27:A3:11:LYS:HZ1	1.58	0.49
24:A0:14:SER:O	24:A0:17:ARG:N	2.45	0.49
24:A0:93:GLY:C	24:A0:95:THR:N	2.66	0.49
24:A0:87:TYR:CD1	24:A0:94:TYR:CD2	3.00	0.49
25:A1:21:ALA:CB	25:A1:24:PHE:CZ	2.93	0.49
26:A2:68:LYS:O	26:A2:69:ILE:C	2.51	0.49
27:A3:24:LYS:O	27:A3:26:PHE:CE1	2.64	0.49
2:AA:2331:G:C3'	27:A3:70:ILE:HB	2.42	0.49
28:A4:45:GLY:O	28:A4:73:LYS:NZ	2.45	0.49
2:AA:1612:C:C2'	31:A7:3:ARG:NE	2.62	0.49
2:AA:1034:G:C6	2:AA:1035:U:C4	3.00	0.49
2:AA:1071:G:H2'	2:AA:1072:C:H5''	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1179:C:H3'	2:AA:1179:C:P	2.52	0.49
2:AA:1281:G:C4	2:AA:1282:U:C5	3.00	0.49
2:AA:1365:A:C5	2:AA:1366:A:N7	2.79	0.49
2:AA:1368:G:C2'	2:AA:1369:G:H5'	2.42	0.49
2:AA:1388:G:C2	2:AA:1389:G:C1'	2.95	0.49
2:AA:1403:C:C2'	2:AA:1404:C:O5'	2.58	0.49
2:AA:1444:G:C2'	2:AA:1445:C:C5	2.95	0.49
2:AA:1535:U:H5''	2:AA:1536:A:C5'	2.42	0.49
2:AA:1625:C:O2'	2:AA:1626:G:C5'	2.59	0.49
2:AA:1665:A:C2	2:AA:1666:G:C5	3.00	0.49
2:AA:1702:G:C6	2:AA:1703:G:N7	2.80	0.49
2:AA:1775:U:H2'	2:AA:1776:G:O4'	2.12	0.49
2:AA:1782:C:N4	2:AA:2587:A:H62	2.09	0.49
2:AA:1363:C:C1'	2:AA:1810:A:H1'	2.33	0.49
2:AA:1965:C:C4	2:AA:1966:A:N6	2.80	0.49
2:AA:570:G:C6	2:AA:2030:A:H2	2.30	0.49
2:AA:2121:G:OP2	2:AA:2121:G:H8	1.95	0.49
2:AA:2146:C:O4'	2:AA:2146:C:P	2.70	0.49
2:AA:2348:U:O2'	2:AA:2349:G:H5'	2.12	0.49
2:AA:2422:A:O2'	2:AA:2424:C:C6	2.65	0.49
2:AA:827:U:P	2:AA:2429:G:OP2	2.70	0.49
2:AA:2460:U:C4	2:AA:2461:C:N4	2.79	0.49
2:AA:2584:U:C2'	2:AA:2585:U:OP1	2.60	0.49
2:AA:270(A):A:C5'	2:AA:270(B):A:OP2	2.59	0.49
2:AA:270(L):U:C4'	2:AA:270(M):U:OP1	2.57	0.49
2:AA:2709:G:H2'	2:AA:2710:C:C5'	2.42	0.49
2:AA:2714:G:C2'	2:AA:2715:C:H5'	2.42	0.49
2:AA:2720:U:C2'	2:AA:2721:A:H8	2.25	0.49
2:AA:2761:G:H2'	2:AA:2762:G:C5'	2.43	0.49
2:AA:2834:G:C5	2:AA:2879:C:C2	3.00	0.49
2:AA:2848:G:H22	2:AA:2867:G:C2'	2.24	0.49
2:AA:2851:A:C2	2:AA:2852:G:C1'	2.95	0.49
2:AA:316:C:OP2	2:AA:316:C:H6	1.95	0.49
2:AA:482:A:C5	2:AA:506:G:N2	2.80	0.49
2:AA:506:G:O2'	2:AA:507:A:H8	1.93	0.49
2:AA:540:G:C6	2:AA:541:C:N4	2.81	0.49
2:AA:551:G:H5'	2:AA:552:G:OP2	2.12	0.49
2:AA:693:C:C2'	2:AA:694:U:O5'	2.61	0.49
2:AA:68:G:C5	2:AA:69:C:C5	3.00	0.49
2:AA:701:G:C2	2:AA:731:C:N3	2.75	0.49
2:AA:763:G:O2'	2:AA:765:G:H5'	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:772:C:C2	2:AA:773:U:C5	3.00	0.49
2:AA:808:G:O2'	2:AA:809:G:O5'	2.30	0.49
2:AA:890:A:C4'	2:AA:892:G:H5'	2.40	0.49
2:AA:899:A:O2'	2:AA:900:A:H5'	2.11	0.49
2:AA:89:G:OP2	2:AA:91:A:OP1	2.29	0.49
2:AA:941:A:H2'	2:AA:942:G:C8	2.47	0.49
2:AA:980:A:C2	2:AA:2037:G:O2'	2.56	0.49
1:AB:71:C:C2	1:AB:105:G:N2	2.76	0.49
1:AB:53:A:H2'	1:AB:53:A:N3	2.25	0.49
1:AB:70:C:C4	1:AB:71:C:C5	3.00	0.49
3:AC:20:TYR:CE1	3:AC:222:VAL:HG13	2.47	0.49
3:AC:83:ILE:HG23	3:AC:94:VAL:HG11	1.94	0.49
4:AD:141:HIS:CE1	4:AD:191:VAL:C	2.85	0.49
4:AD:181:ARG:NH1	4:AD:181:ARG:CB	2.56	0.49
5:AE:179:ASP:O	5:AE:183:ASP:OD1	2.29	0.49
5:AE:247:ARG:CD	5:AE:249:THR:HG21	2.42	0.49
6:AF:93:LYS:O	6:AF:94:THR:C	2.49	0.49
7:AG:78:GLU:O	7:AG:82:GLU:OE2	2.30	0.49
8:AH:101:LYS:NZ	8:AH:115:GLU:CB	2.75	0.49
9:AI:61:VAL:O	9:AI:102:ILE:N	2.45	0.49
9:AJ:106:VAL:CG1	9:AJ:110:GLU:HB2	2.42	0.49
9:AI:20:GLU:OE1	9:AJ:53:GLN:CD	2.51	0.49
10:AK:26:ALA:HA	10:AK:30:LEU:HD12	1.95	0.49
11:AL:117:ASN:CG	11:AL:127:ILE:CD1	2.80	0.49
12:AM:10:VAL:CG2	12:AM:36:VAL:HG22	2.42	0.49
2:AA:1022:G:P	12:AM:52:GLN:HE22	2.35	0.49
12:AM:41:ALA:HB1	12:AM:75:PRO:CG	2.42	0.49
13:AN:21:VAL:CG1	13:AN:22:ILE:H	2.23	0.49
16:AQ:24:LEU:HA	16:AQ:33:ARG:NH2	2.17	0.49
16:AQ:26:LEU:O	16:AQ:27:LEU:C	2.50	0.49
17:AR:10:GLY:N	17:AR:52:THR:CB	2.68	0.49
18:AS:8:ARG:HD2	18:AS:9:TYR:CD1	2.47	0.49
20:AU:101:LEU:HD22	20:AU:103:LEU:CD2	2.42	0.49
20:AU:68:ASP:O	20:AU:70:ALA:N	2.44	0.49
21:AV:103:ARG:CZ	21:AV:139:THR:HA	2.42	0.49
21:AV:48:THR:O	21:AV:49:THR:HG23	2.11	0.49
34:BA:102:G:H2'	34:BA:103:C:C6	2.47	0.49
34:BA:1125:U:O4	45:BM:5:ARG:CZ	2.60	0.49
34:BA:1148:U:C5	34:BA:1149:C:C4	3.00	0.49
34:BA:1165:C:C5	34:BA:1166:G:N7	2.80	0.49
34:BA:1169:A:N7	34:BA:1171:G:C4	2.80	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1237:C:C4'	34:BA:1334:G:H21	2.23	0.49
34:BA:1363:A:N3	34:BA:1365:G:O6	2.46	0.49
34:BA:1450:U:C2	34:BA:1454:G:N1	2.80	0.49
34:BA:175:C:O2	34:BA:176:C:C6	2.65	0.49
34:BA:225:C:O2	34:BA:226:G:O4'	2.29	0.49
34:BA:292:G:P	34:BA:305:G:H22	2.34	0.49
34:BA:523:A:O2'	34:BA:524:G:H3'	2.11	0.49
34:BA:542:G:N1	34:BA:543:C:C4	2.80	0.49
34:BA:564:C:O4'	52:BT:32:TYR:CE2	2.66	0.49
34:BA:566:G:H4'	34:BA:567:G:C5'	2.43	0.49
34:BA:592:G:H2'	34:BA:593:G:C5'	2.41	0.49
34:BA:675:A:H1'	46:BN:116:HIS:CE1	2.48	0.49
34:BA:688:G:N1	34:BA:699:C:N4	2.56	0.49
34:BA:703:G:H8	34:BA:703:G:P	2.35	0.49
34:BA:706:A:C4'	46:BN:29:ILE:CD1	2.90	0.49
34:BA:74:C:N3	34:BA:97:G:C2	2.80	0.49
34:BA:814:A:HO2'	34:BA:815:A:C5'	2.24	0.49
34:BA:878:G:H2'	34:BA:879:C:O4'	2.11	0.49
34:BA:78:G:C2	34:BA:92:C:N3	2.80	0.49
35:BC:33:U:O5'	35:BC:33:U:C6	2.65	0.49
35:BC:42:G:H2'	35:BC:43:G:O4'	2.13	0.49
35:BC:59:U:C2'	35:BC:59:U:O2	2.60	0.49
37:BE:104:ASN:HD22	37:BE:108:ILE:HD11	1.78	0.49
37:BE:32:ILE:CD1	37:BE:40:HIS:CD2	2.94	0.49
37:BE:82:ARG:CD	37:BE:92:TYR:OH	2.56	0.49
37:BE:93:VAL:HG11	37:BE:97:TRP:HA	1.94	0.49
38:BF:38:ARG:NH1	38:BF:38:ARG:HG3	2.26	0.49
38:BF:39:ILE:O	38:BF:43:LEU:HB2	2.13	0.49
34:BA:16:A:O2'	40:BH:16:THR:HA	2.12	0.49
40:BH:18:ARG:HH21	40:BH:25:ARG:HB2	1.77	0.49
42:BJ:100:ALA:HA	42:BJ:103:TRP:HE3	1.77	0.49
34:BA:590:C:C5'	43:BK:30:ARG:HG3	2.42	0.49
43:BK:39:LEU:O	43:BK:44:PHE:HB2	2.12	0.49
43:BK:6:ILE:CG2	43:BK:85:ARG:NH1	2.76	0.49
44:BL:111:ARG:O	44:BL:119:ALA:CB	2.57	0.49
34:BA:1344:C:H4'	44:BL:120:ARG:HB3	1.94	0.49
34:BA:1342:C:O2'	44:BL:124:GLN:CB	2.59	0.49
44:BL:37:PHE:HD1	44:BL:43:ALA:HA	1.77	0.49
45:BM:24:VAL:CG1	45:BM:34:VAL:HG11	2.40	0.49
45:BM:5:ARG:HA	45:BM:73:ASP:OD1	2.12	0.49
46:BN:62:GLN:O	46:BN:64:ALA:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:14:ARG:HG2	48:BP:44:ARG:CZ	2.41	0.49
48:BP:81:LEU:HD11	48:BP:88:ARG:HH21	1.69	0.49
51:BS:75:ARG:HG3	51:BS:80:PHE:CG	2.47	0.49
53:BU:30:ASP:C	53:BU:32:ARG:N	2.65	0.49
53:BU:45:SER:N	53:BU:51:LEU:HD11	2.27	0.49
55:BW:14:LYS:O	55:BW:18:GLN:HG3	2.12	0.49
10:AK:110:LEU:HD21	10:AK:114:LYS:HZ2	1.77	0.49
2:AA:2752:C:C2'	2:AA:2752:C:O2	2.61	0.49
36:B1:41:U:O2	36:B1:42:G:C8	2.65	0.49
50:BR:17:ARG:HD3	50:BR:77:ARG:HE	1.77	0.49
2:AA:1283:G:N2	2:AA:1285:G:H3'	2.27	0.49
25:A1:108:ALA:CA	25:A1:111:ASP:OD1	2.61	0.49
2:AA:2020:A:P	25:A1:31:GLN:HE22	2.35	0.49
26:A2:4:ILE:HG23	26:A2:12:TYR:HD2	1.77	0.49
27:A3:19:LYS:HB3	27:A3:21:LEU:CG	2.30	0.49
29:A5:10:LYS:CB	29:A5:10:LYS:HZ3	2.20	0.49
29:A5:15:LYS:O	29:A5:18:MET:CG	2.55	0.49
29:A5:44:HIS:CG	29:A5:52:TYR:OH	2.65	0.49
2:AA:467:G:OP1	31:A7:30:ILE:HG22	2.13	0.49
32:A8:15:LYS:H	32:A8:22:VAL:HG13	1.76	0.49
33:A9:10:MET:CB	33:A9:32:HIS:CD2	2.89	0.49
2:AA:1006:C:HO2'	12:AM:86:MET:CB	2.18	0.49
2:AA:1061:U:H2'	11:AL:12:GLN:HE22	1.76	0.49
2:AA:1080:C:O2'	11:AL:127:ILE:HG13	2.13	0.49
2:AA:1080:C:O3'	11:AL:126:LYS:HB3	2.11	0.49
2:AA:1166:C:O2'	2:AA:1167:U:H5'	2.12	0.49
2:AA:1169:G:C6	2:AA:1170:G:C6	3.00	0.49
2:AA:1208:C:H6	2:AA:1208:C:O5'	1.95	0.49
2:AA:1273:U:H5''	2:AA:1274:A:OP1	2.12	0.49
2:AA:1529:A:H5''	2:AA:1530:G:C8	2.46	0.49
2:AA:1605:C:C4'	2:AA:1610:A:N6	2.75	0.49
2:AA:1612:C:N4	2:AA:1619:G:C6	2.80	0.49
2:AA:1614:A:N3	2:AA:1614:A:C3'	2.72	0.49
2:AA:1687:G:H2'	2:AA:1701:A:H61	1.77	0.49
2:AA:1829:A:C2	2:AA:1830:C:O4'	2.65	0.49
2:AA:414:C:H5'	2:AA:1863:G:N2	2.27	0.49
2:AA:1906:G:N9	2:AA:1929:G:N7	2.61	0.49
2:AA:1941:C:H41	2:AA:1965:C:C1'	2.22	0.49
2:AA:2105:C:C2	2:AA:2106:G:N7	2.81	0.49
2:AA:215:G:HO2'	2:AA:216:A:P	2.36	0.49
2:AA:860:U:H1'	2:AA:2267:A:H5'	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2376:A:H2'	2:AA:2377:A:H8	1.73	0.49
2:AA:2326:C:N4	2:AA:2389:G:O6	2.42	0.49
2:AA:2436:G:O2'	2:AA:2437:U:C5'	2.60	0.49
2:AA:2459:A:N7	2:AA:2460:U:C4	2.79	0.49
2:AA:2526:G:O2'	2:AA:2527:C:C5'	2.58	0.49
2:AA:269:U:C5	2:AA:270(Z):U:P	3.03	0.49
2:AA:2685:G:H1	2:AA:2724:C:N4	2.09	0.49
2:AA:2725:A:O2'	2:AA:2726:U:C6	2.65	0.49
2:AA:2772:C:C4	2:AA:2773:C:N4	2.81	0.49
2:AA:2888:C:O5'	2:AA:2888:C:C6	2.64	0.49
2:AA:332:A:C2'	2:AA:334:C:OP2	2.60	0.49
2:AA:349:G:N3	2:AA:349:G:H2'	2.27	0.49
2:AA:364:C:C4	2:AA:365:C:N4	2.80	0.49
2:AA:489:G:N1	2:AA:491:G:C4	2.80	0.49
2:AA:515:A:O4'	2:AA:581:C:O4'	2.31	0.49
2:AA:16:G:C6	2:AA:525:U:N3	2.80	0.49
2:AA:529:A:C2'	2:AA:530:G:OP2	2.60	0.49
2:AA:558:G:C2'	2:AA:559:G:C5'	2.90	0.49
2:AA:514:A:N3	2:AA:581:C:O2'	2.45	0.49
2:AA:60:G:C2'	2:AA:61:G:OP1	2.60	0.49
2:AA:650:C:H5'	32:A8:17:THR:HG21	1.94	0.49
2:AA:709:U:C2'	2:AA:710:G:H8	2.21	0.49
2:AA:717:G:C6	2:AA:718:A:C4	3.01	0.49
2:AA:724:U:C2'	2:AA:725:G:O5'	2.59	0.49
2:AA:822:U:H2'	2:AA:823:G:C8	2.39	0.49
2:AA:836:G:C5	2:AA:837:C:C4	3.00	0.49
2:AA:917:A:H2'	2:AA:918:A:H5''	1.94	0.49
1:AB:97:G:C2	2:AA:918:A:O2'	2.65	0.49
2:AA:931:G:C2	2:AA:932:G:N3	2.81	0.49
1:AB:112:G:C5'	1:AB:113:C:OP2	2.59	0.49
1:AB:117:G:C2	1:AB:118:G:C8	3.00	0.49
1:AB:70:C:N3	1:AB:71:C:C5	2.80	0.49
1:AB:7:G:H2'	1:AB:8:U:O4'	2.12	0.49
1:AB:96:G:C6	1:AB:97:G:C5	3.01	0.49
3:AC:103:ILE:HD12	3:AC:127:LEU:CD1	2.42	0.49
3:AC:36:LYS:CG	3:AC:37:PHE:HD2	2.16	0.49
4:AD:178:GLY:O	4:AD:179:GLU:HG2	2.13	0.49
5:AE:268:LEU:C	5:AE:297:LYS:HE2	2.32	0.49
6:AF:115:LEU:HA	6:AF:118:THR:CG2	2.43	0.49
6:AF:167:ASP:HB2	6:AF:232:LEU:HB2	1.95	0.49
7:AG:83:PHE:O	7:AG:84:LEU:C	2.50	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:159:LYS:O	8:AH:162:ARG:CZ	2.58	0.49
9:AJ:59:PHE:CE1	9:AJ:108:LYS:HG2	2.48	0.49
10:AK:47:LEU:HD12	10:AK:48:GLU:N	2.27	0.49
11:AL:18:ALA:O	11:AL:19:THR:CG2	2.60	0.49
11:AL:38:PHE:CZ	11:AL:60:VAL:HG12	2.48	0.49
2:AA:1012:U:O2	12:AM:21:ARG:NH1	2.46	0.49
17:AR:24:LYS:O	17:AR:25:ASP:HB2	2.10	0.49
19:AT:23:LYS:O	19:AT:24:LEU:CG	2.47	0.49
19:AT:25:GLN:C	19:AT:26:PHE:CG	2.84	0.49
19:AT:50:GLU:CB	19:AT:67:ARG:O	2.55	0.49
11:AL:93:LYS:NZ	21:AV:108:VAL:CG1	2.76	0.49
21:AV:138:VAL:HG21	21:AV:140:LYS:NZ	2.26	0.49
21:AV:139:THR:O	21:AV:140:LYS:CB	2.60	0.49
21:AV:159:THR:OG1	21:AV:160:LEU:N	2.43	0.49
21:AV:39:PHE:O	21:AV:40:ASP:C	2.50	0.49
34:BA:1011:G:H2'	34:BA:1012:U:O5'	2.12	0.49
34:BA:1202:G:N2	34:BA:1203:C:H1'	2.28	0.49
34:BA:985:C:C2	34:BA:1221:G:N2	2.81	0.49
34:BA:1256:A:O2'	34:BA:1257:U:C1'	2.61	0.49
34:BA:1298:C:C4'	34:BA:1299:A:C2	2.94	0.49
34:BA:129:U:O5'	34:BA:129:U:H6	1.95	0.49
34:BA:1321:C:C4	34:BA:1322:C:C2	3.00	0.49
34:BA:134:A:H2'	34:BA:135:C:C6	2.48	0.49
2:AA:1689:A:H4'	34:BA:1475:G:H5''	1.95	0.49
34:BA:229:U:C2	34:BA:230:G:C8	3.00	0.49
34:BA:274:A:O2'	34:BA:275:G:O5'	2.30	0.49
34:BA:292:G:C2	34:BA:309:G:C2	3.01	0.49
34:BA:563:A:C2	34:BA:567:G:C5	2.99	0.49
34:BA:579:G:C4	34:BA:580:U:C5	3.00	0.49
34:BA:701:C:C2	34:BA:703:G:C2	3.00	0.49
34:BA:706:A:H2	34:BA:707:C:N1	2.09	0.49
34:BA:760:G:C3'	34:BA:761:G:H5'	2.43	0.49
34:BA:763:G:N3	34:BA:764:C:C6	2.80	0.49
34:BA:810:C:O2'	34:BA:811:C:O5'	2.30	0.49
34:BA:886:G:N2	34:BA:912:C:H1'	2.28	0.49
34:BA:898:G:C6	34:BA:902:G:C6	3.01	0.49
34:BA:934:C:H42	34:BA:939:G:N2	2.09	0.49
34:BA:968:A:C8	34:BA:968:A:OP1	2.64	0.49
34:BA:991:U:OP2	34:BA:991:U:H6	1.95	0.49
35:BB:74:C:N3	35:BB:75:C:C1'	2.74	0.49
37:BE:93:VAL:HG21	37:BE:101:MET:HE3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:78:GLN:HG3	37:BE:94:ASN:CG	2.32	0.49
38:BF:33:LEU:HD13	49:BQ:53:LEU:HD22	1.94	0.49
38:BF:52:LEU:HA	38:BF:70:VAL:CG1	2.43	0.49
38:BF:74:GLY:C	38:BF:76:VAL:H	2.16	0.49
39:BG:190:ASP:O	39:BG:191:ARG:C	2.51	0.49
39:BG:43:HIS:HA	39:BG:46:LYS:HG3	1.94	0.49
41:BI:27:GLN:OE1	41:BI:30:LEU:HD22	2.13	0.49
41:BI:12:PRO:HG3	41:BI:57:GLN:O	2.12	0.49
34:BA:738:C:H5'	41:BI:72:VAL:CG2	2.43	0.49
42:BJ:143:ARG:O	42:BJ:145:ALA:O	2.31	0.49
42:BJ:51:GLN:OE1	42:BJ:58:PRO:HD3	2.13	0.49
43:BK:69:ARG:NH2	43:BK:75:ARG:O	2.45	0.49
34:BA:1349:A:OP2	44:BL:118:LYS:HD3	2.12	0.49
34:BA:1250:A:H4'	44:BL:67:GLY:CA	2.42	0.49
45:BM:16:LEU:CD1	45:BM:70:ARG:HG2	2.40	0.49
46:BN:90:GLY:C	46:BN:92:GLU:N	2.63	0.49
49:BQ:17:LYS:CG	49:BQ:18:VAL:H	2.08	0.49
50:BR:81:LEU:HD21	50:BR:85:LEU:HG	1.94	0.49
34:BA:449:C:O2	51:BS:42:ARG:CD	2.59	0.49
52:BT:86:GLU:O	52:BT:89:LEU:HB2	2.12	0.49
10:AK:110:LEU:CD1	10:AK:114:LYS:NZ	2.74	0.49
10:AK:119:ASP:OD1	10:AK:120:ALA:O	2.31	0.49
10:AK:116:GLU:CB	10:AK:130:PRO:O	2.59	0.49
3:AC:177:LYS:HG3	3:AC:180:PHE:CD1	2.47	0.49
9:AJ:7:ILE:O	9:AJ:11:GLU:HG3	2.12	0.49
21:AV:26:LYS:O	21:AV:27:GLU:CD	2.51	0.49
12:AM:31:LEU:O	12:AM:33:GLY:N	2.44	0.49
2:AA:30:G:OP1	25:A1:8:ILE:CG1	2.61	0.49
26:A2:27:GLY:C	26:A2:28:GLU:O	2.48	0.49
25:A1:88:ILE:HG22	26:A2:55:THR:OG1	2.12	0.49
26:A2:69:ILE:CG2	26:A2:88:GLN:HB3	2.42	0.49
27:A3:59:LEU:HD23	27:A3:81:ILE:HG23	1.94	0.49
28:A4:42:PHE:H	28:A4:57:ASP:CG	2.16	0.49
29:A5:35:GLN:HG2	29:A5:35:GLN:O	2.12	0.49
18:AS:37:ARG:HH22	29:A5:48:ASN:HD21	1.52	0.49
30:A6:48:VAL:CG1	30:A6:49:VAL:N	2.75	0.49
30:A6:9:ILE:O	30:A6:9:ILE:HG22	2.13	0.49
2:AA:1612:C:C4	31:A7:3:ARG:NH1	2.80	0.49
2:AA:1028:A:C2	2:AA:2486:G:O2'	2.64	0.49
2:AA:1047:G:C2	2:AA:1110:G:C8	3.00	0.49
2:AA:1274:A:N1	2:AA:1644:C:O2'	2.32	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1317:A:H2'	2:AA:1318:C:O4'	2.12	0.49
2:AA:1322:A:H8	2:AA:1322:A:O5'	1.95	0.49
2:AA:137:C:H2'	2:AA:137(A):G:C4	2.47	0.49
2:AA:1391:U:O4	2:AA:1394:U:OP2	2.30	0.49
2:AA:1411:C:H2'	2:AA:1412:A:H8	1.78	0.49
2:AA:1439:A:C8	2:AA:1440:G:N9	2.80	0.49
2:AA:1629:U:H2'	2:AA:1630:G:C8	2.47	0.49
2:AA:1671:U:O2	2:AA:1673:U:H3'	2.12	0.49
2:AA:1750:G:HO2'	2:AA:2860:A:H2	1.60	0.49
2:AA:1680:U:O2	2:AA:1764:G:H5''	2.13	0.49
2:AA:176:G:C2'	2:AA:176:G:N3	2.72	0.49
2:AA:179:G:C6	2:AA:180:G:C5	3.01	0.49
2:AA:1948:G:O2'	2:AA:1949:G:H5'	2.12	0.49
2:AA:1961:C:H2'	2:AA:1962:C:H5'	1.94	0.49
2:AA:1984:G:C5	2:AA:1985:G:C8	3.00	0.49
2:AA:198:C:C2'	2:AA:198:C:O2	2.59	0.49
2:AA:2020:A:N6	2:AA:2022:U:H3	2.08	0.49
2:AA:2074:U:H3'	2:AA:2075:U:C5	2.46	0.49
2:AA:2300:G:N2	2:AA:2301:C:C2	2.81	0.49
2:AA:2317:C:OP1	7:AG:149:ARG:O	2.31	0.49
2:AA:2284:C:O2'	2:AA:2325:G:N2	2.45	0.49
2:AA:2468:G:O5'	2:AA:2468:G:C8	2.65	0.49
2:AA:2503:A:C4'	2:AA:2504:U:OP1	2.59	0.49
2:AA:2533:A:OP1	2:AA:2665:A:C1'	2.59	0.49
2:AA:2545:G:O2'	2:AA:2546:U:H5'	2.11	0.49
2:AA:783:A:C5'	2:AA:2589:A:OP1	2.43	0.49
2:AA:746:A:OP1	2:AA:2612:C:C4	2.65	0.49
2:AA:262:A:H2'	2:AA:263:C:O5'	2.12	0.49
2:AA:2677:G:O2'	2:AA:2678:C:C5'	2.56	0.49
2:AA:2742:C:N3	2:AA:2743:C:C5	2.81	0.49
2:AA:2791:C:H2'	2:AA:2792:G:H8	1.77	0.49
2:AA:358:U:O2	2:AA:358:U:C2'	2.61	0.49
2:AA:518:G:H2'	2:AA:519:U:C6	2.47	0.49
2:AA:558:G:O2'	2:AA:559:G:H5''	2.13	0.49
2:AA:612:G:N3	2:AA:615:G:N2	2.61	0.49
2:AA:609:A:N6	2:AA:619:G:H21	2.02	0.49
2:AA:629:G:O6	2:AA:630:G:C6	2.66	0.49
2:AA:60:G:O6	2:AA:63:U:O4	2.31	0.49
2:AA:652:C:OP1	2:AA:653:A:O2'	2.31	0.49
2:AA:814:C:O2'	2:AA:815:C:C5'	2.60	0.49
2:AA:818:G:C4	2:AA:1187:G:N2	2.80	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:860:U:H2'	2:AA:861:A:C5'	2.37	0.49
2:AA:875:G:H2'	2:AA:876:C:H6	1.76	0.49
2:AA:66:C:N4	2:AA:89:G:O6	2.45	0.49
2:AA:94:G:N2	2:AA:95:G:N3	2.61	0.49
2:AA:981:A:OP2	2:AA:982:C:C5	2.65	0.49
1:AB:30:C:O4'	1:AB:58:A:H2	1.96	0.49
3:AC:130:ILE:HG22	3:AC:131:LEU:CD2	2.43	0.49
3:AC:199:HIS:O	3:AC:200:LYS:C	2.49	0.49
4:AD:76:ARG:HG2	4:AD:114:GLU:N	2.27	0.49
4:AD:115:ILE:HB	4:AD:127:ASN:CG	2.31	0.49
4:AD:129:LEU:CD2	4:AD:133:ASN:ND2	2.75	0.49
4:AD:143:ILE:C	4:AD:152:GLN:H	2.16	0.49
4:AD:71:ASP:CG	4:AD:72:GLY:N	2.66	0.49
5:AE:74:GLU:CB	5:AE:293:TYR:CE2	2.95	0.49
6:AF:239:ALA:O	6:AF:242:GLU:CB	2.61	0.49
8:AH:24:THR:HB	8:AH:26:LYS:HZ2	1.78	0.49
2:AA:1083:U:H2'	9:AI:37:VAL:CG1	2.43	0.49
9:AJ:40:ALA:C	9:AJ:43:PRO:HD2	2.33	0.49
11:AL:113:MET:C	11:AL:116:LEU:HB3	2.32	0.49
11:AL:105:ILE:CG2	11:AL:128:ILE:HG21	2.25	0.49
11:AL:135:MET:HB3	11:AL:137:ILE:HG13	1.95	0.49
11:AL:96:ILE:HG12	11:AL:138:GLU:CD	2.33	0.49
11:AL:14:PRO:HB2	11:AL:17:LYS:CD	2.19	0.49
11:AL:79:LEU:HD22	11:AL:137:ILE:CD1	2.34	0.49
12:AM:94:GLY:O	12:AM:97:ALA:HB3	2.13	0.49
13:AN:112:MET:HA	13:AN:115:ILE:HB	1.93	0.49
13:AN:1:MET:HB2	13:AN:2:ILE:HD12	1.95	0.49
13:AN:1:MET:O	13:AN:2:ILE:HD12	2.13	0.49
14:AO:124:ASP:C	14:AO:125:PHE:CD1	2.85	0.49
14:AO:119:THR:HG22	14:AO:138:GLY:HA3	1.92	0.49
15:AP:125:TRP:O	15:AP:126:VAL:CG2	2.54	0.49
15:AP:50:VAL:HG21	15:AP:147:VAL:HG22	1.95	0.49
18:AS:27:LYS:H	18:AS:71:VAL:CG2	2.22	0.49
19:AT:13:LYS:C	19:AT:17:ASP:OD1	2.51	0.49
19:AT:18:MET:HB3	19:AT:24:LEU:HA	1.94	0.49
19:AT:9:HIS:CD2	19:AT:27:ALA:HB2	2.47	0.49
19:AT:28:VAL:HG11	19:AT:64:ALA:CB	2.39	0.49
20:AU:29:ALA:O	20:AU:30:ASP:O	2.30	0.49
20:AU:78:THR:C	20:AU:89:ARG:HG3	2.31	0.49
21:AV:106:GLY:N	21:AV:141:MET:O	2.45	0.49
21:AV:107:GLU:OE2	21:AV:141:MET:HG3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AW:28:LEU:O	22:AW:29:ASN:C	2.51	0.49
36:B1:57:A:OP2	36:B1:57:A:O4'	2.29	0.49
34:BA:1042:G:N3	34:BA:1042:G:H2'	2.27	0.49
34:BA:1128:C:N4	34:BA:1143:G:H1	2.09	0.49
34:BA:1143:G:C8	34:BA:1143:G:O5'	2.64	0.49
34:BA:1092:A:C2	34:BA:1183:A:C2	3.01	0.49
34:BA:1190:G:C2'	34:BA:1191:A:OP2	2.61	0.49
34:BA:1437:C:O2	34:BA:1438:G:C8	2.65	0.49
34:BA:1515:C:C2'	34:BA:1516:G:O5'	2.61	0.49
34:BA:1517:G:C2	34:BA:1518:A:C4	3.00	0.49
34:BA:1542:U:O2	34:BA:1542:U:H2'	2.13	0.49
34:BA:453:A:N6	34:BA:480:U:C2	2.80	0.49
34:BA:547:A:H4'	34:BA:548:G:C5'	2.42	0.49
34:BA:553:A:OP2	34:BA:553:A:H8	1.94	0.49
34:BA:588:G:N9	34:BA:753:A:C2	2.80	0.49
34:BA:669:U:O4'	50:BR:46:HIS:HE1	1.95	0.49
34:BA:689:C:O2'	34:BA:705:U:H1'	2.13	0.49
34:BA:809:G:H2'	34:BA:810:C:C5'	2.42	0.49
34:BA:853:G:N2	34:BA:854:G:H1'	2.28	0.49
34:BA:874:G:C2	34:BA:875:C:N1	2.80	0.49
34:BA:935:A:H2'	34:BA:936:C:H6	1.77	0.49
35:BB:6:U:O4	35:BB:7:U:C4	2.66	0.49
37:BE:178:ARG:NE	37:BE:196:LEU:HD13	2.28	0.49
37:BE:217:ARG:HG3	37:BE:217:ARG:NH1	2.27	0.49
37:BE:25:ASN:C	37:BE:27:LYS:N	2.66	0.49
37:BE:74:LYS:CE	37:BE:76:GLN:HB2	2.37	0.49
38:BF:115:LEU:C	38:BF:117:ALA:N	2.66	0.49
38:BF:116:VAL:HG21	38:BF:141:VAL:HG21	1.94	0.49
38:BF:191:THR:HB	38:BF:193:TYR:CE2	2.47	0.49
38:BF:59:ARG:HG3	38:BF:64:VAL:H	1.78	0.49
39:BG:121:VAL:HA	39:BG:126:ILE:CD1	2.42	0.49
40:BH:35:GLY:N	40:BH:112:LEU:HD12	2.27	0.49
41:BI:82:ARG:O	41:BI:84:ASN:N	2.45	0.49
41:BI:98:LEU:HD22	41:BI:101:ALA:CB	2.41	0.49
42:BJ:26:PHE:CE1	42:BJ:105:VAL:HG22	2.44	0.49
42:BJ:126:ASP:HA	42:BJ:129:GLU:CG	2.42	0.49
43:BK:46:LYS:CG	43:BK:64:LYS:HG3	2.40	0.49
44:BL:72:GLY:CA	44:BL:75:ASP:OD1	2.59	0.49
34:BA:1178:G:OP2	44:BL:93:ARG:NH2	2.46	0.49
45:BM:39:PRO:HB3	45:BM:70:ARG:NH1	2.27	0.49
48:BP:11:ARG:C	48:BP:13:LYS:H	2.16	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:10:PRO:HB2	48:BP:18:ALA:HB1	1.94	0.49
48:BP:95:GLY:C	48:BP:96:LEU:HD23	2.33	0.49
49:BQ:29:ARG:CB	49:BQ:40:CYS:SG	3.01	0.49
49:BQ:41:ARG:HA	49:BQ:44:LEU:CD2	2.41	0.49
51:BS:19:ILE:HD12	51:BS:37:GLY:C	2.32	0.49
34:BA:449:C:O3'	51:BS:43:LYS:NZ	2.46	0.49
51:BS:78:GLY:C	51:BS:79:VAL:CG2	2.81	0.49
34:BA:255:G:C4'	52:BT:16:GLN:O	2.61	0.49
52:BT:8:GLY:O	52:BT:56:VAL:HG13	2.13	0.49
53:BU:58:LEU:HD22	53:BU:62:GLU:HG2	1.95	0.49
53:BU:72:ARG:CG	53:BU:72:ARG:NH1	2.65	0.49
55:BW:76:ALA:O	55:BW:78:ALA:N	2.45	0.49
34:BA:1327:C:OP1	56:BX:20:LYS:HB3	2.12	0.49
35:BB:41:U:O5'	35:BB:41:U:C6	2.66	0.49
10:AK:131:VAL:HG12	10:AK:132:LYS:O	2.12	0.49
7:AG:90:LEU:CD1	48:BP:3:ARG:NH1	2.66	0.49
10:AK:66:LYS:HB3	10:AK:69:LYS:HZ3	1.78	0.49
9:AJ:24:LYS:O	9:AJ:27:ASP:N	2.46	0.49
1:AB:66:A:C2	1:AB:107:U:N3	2.80	0.49
24:A0:79:LEU:HD23	24:A0:80:PHE:CB	2.41	0.49
25:A1:43:ALA:CB	26:A2:75:LYS:HB3	2.42	0.49
28:A4:12:CYS:O	28:A4:14:ILE:HG12	2.12	0.49
30:A6:8:ILE:HG22	30:A6:28:ARG:HB2	1.94	0.49
31:A7:21:ARG:NE	31:A7:43:THR:OG1	2.46	0.49
31:A7:8:ASN:ND2	31:A7:8:ASN:N	2.60	0.49
2:AA:1085:A:C5'	9:AI:29:PHE:CB	2.90	0.49
2:AA:1208:C:N3	2:AA:1240:U:C4	2.81	0.49
2:AA:1385:G:H1	2:AA:1402:C:H42	1.60	0.49
2:AA:1471:A:O2'	2:AA:1472:A:H5'	2.11	0.49
2:AA:1612:C:H5''	2:AA:1613:G:OP2	2.12	0.49
2:AA:1274:A:H8	2:AA:1646:C:N4	2.11	0.49
2:AA:1704:G:C6	2:AA:1705:G:C8	3.01	0.49
2:AA:118:A:N3	2:AA:178:G:H1'	2.28	0.49
2:AA:1846:G:H2'	2:AA:1847:A:H5'	1.93	0.49
2:AA:1891:G:C3'	2:AA:1892:C:H6	2.25	0.49
2:AA:1920:C:H5''	34:BA:1517:G:C8	2.46	0.49
2:AA:1837:C:HO2'	2:AA:1928:A:H1'	1.74	0.49
2:AA:1935:G:H3'	2:AA:1962:C:H42	1.77	0.49
2:AA:2020:A:C6	2:AA:2022:U:N3	2.81	0.49
2:AA:562:U:C4	2:AA:2036:C:O4'	2.66	0.49
2:AA:2043:C:C2	2:AA:2044:C:H5	2.31	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2056:G:C8	2:AA:2577:A:C5	3.00	0.49
2:AA:2102:U:C2	2:AA:2103:C:C4	3.01	0.49
2:AA:2122:U:O2	2:AA:2122:U:C2'	2.59	0.49
2:AA:2136:C:H2'	2:AA:2137:C:C4	2.47	0.49
2:AA:2217:G:C2	2:AA:2218:G:C5	3.00	0.49
2:AA:2266:A:N3	2:AA:2272:U:C4	2.81	0.49
2:AA:2275:C:O2'	2:AA:2276:G:P	2.70	0.49
2:AA:2280:G:C4	2:AA:2281:C:C5	3.00	0.49
2:AA:2326:C:N3	2:AA:2389:G:O6	2.45	0.49
2:AA:2285:C:C2	2:AA:2384:G:N2	2.81	0.49
2:AA:2414:G:O2'	2:AA:2415:G:H5'	2.13	0.49
2:AA:2520:C:N4	2:AA:2567:G:C5	2.80	0.49
2:AA:252:G:C2	2:AA:253:C:C5	3.00	0.49
2:AA:2567:G:C4	2:AA:2568:C:H5	2.30	0.49
2:AA:2618:G:C2	2:AA:2619:C:C5	3.01	0.49
2:AA:2045:C:N4	2:AA:2623:G:H1	2.09	0.49
2:AA:262:A:C2'	2:AA:263:C:H5'	2.43	0.49
2:AA:2654:A:O2'	2:AA:2655:G:O2'	2.22	0.49
2:AA:2686:G:O2'	2:AA:2687:U:C4'	2.61	0.49
2:AA:2746:U:O4	2:AA:2756:U:H5	1.94	0.49
2:AA:2768:C:H2'	2:AA:2769:C:C5'	2.42	0.49
2:AA:2791:C:C5	2:AA:2807:G:C6	3.00	0.49
2:AA:2842:G:C2	2:AA:2876:G:C2	3.01	0.49
2:AA:2852:G:N1	2:AA:2865:U:N3	2.22	0.49
2:AA:2842:G:N1	2:AA:2875:C:N4	2.36	0.49
2:AA:493:G:C4	2:AA:494:G:C8	3.01	0.49
2:AA:71:A:C2	2:AA:73:A:N7	2.81	0.49
2:AA:729:G:C2	2:AA:1775:U:N1	2.80	0.49
2:AA:678:C:C2	2:AA:799:G:N2	2.75	0.49
1:AB:73:A:N6	1:AB:104:A:N9	2.61	0.49
1:AB:7:G:H21	16:AQ:46:GLN:CD	2.16	0.49
5:AE:107:GLU:CG	5:AE:110:ARG:CZ	2.90	0.49
5:AE:80:ALA:CB	5:AE:181:VAL:HG22	2.42	0.49
5:AE:41:PHE:O	5:AE:311:PHE:CZ	2.66	0.49
6:AF:51:TYR:O	6:AF:55:ARG:CG	2.59	0.49
7:AG:28:GLY:O	7:AG:69:ILE:HD11	2.12	0.49
7:AG:53:LYS:HB3	7:AG:69:ILE:HB	1.94	0.49
8:AH:123:GLU:O	8:AH:125:PRO:HD2	2.11	0.49
10:AK:10:LYS:HG2	10:AK:11:GLY:H	1.75	0.49
11:AL:112:LYS:O	11:AL:114:PRO:N	2.45	0.49
12:AM:105:LEU:H	12:AM:105:LEU:CD2	2.24	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:98:ILE:CG2	13:AN:118:ALA:HA	2.40	0.49
13:AN:17:ARG:CZ	13:AN:46:ALA:O	2.61	0.49
13:AN:40:VAL:HG12	13:AN:40:VAL:O	2.12	0.49
14:AO:116:HIS:HD2	14:AO:118:LEU:HD21	1.68	0.49
15:AP:56:ILE:HG13	15:AP:115:SER:HB3	1.92	0.49
16:AQ:49:THR:N	16:AQ:55:ASP:CG	2.66	0.49
16:AQ:67:ALA:O	16:AQ:69:TYR:CE1	2.65	0.49
16:AQ:83:LEU:C	16:AQ:87:LEU:HD23	2.29	0.49
20:AU:35:TYR:CD1	20:AU:35:TYR:N	2.78	0.49
20:AU:80:GLU:HG2	20:AU:86:GLU:CG	2.40	0.49
20:AU:55:PHE:CE1	20:AU:89:ARG:CZ	2.95	0.49
15:AP:35:ASN:HD21	21:AV:113:VAL:HB	1.64	0.49
21:AV:173:PRO:CB	21:AV:177:THR:HG23	2.38	0.49
21:AV:18:MET:C	21:AV:36:ARG:HE	2.15	0.49
22:AW:34:GLN:O	22:AW:35:ALA:C	2.51	0.49
23:AX:23:LEU:O	23:AX:28:LEU:HD12	2.13	0.49
23:AX:31:LEU:HD22	23:AX:32:GLN:CA	2.37	0.49
34:BA:1054:C:C6	34:BA:1054:C:H3'	2.47	0.49
34:BA:105:G:H2'	34:BA:106:C:C6	2.47	0.49
34:BA:1103:C:O2'	37:BE:111:ARG:CD	2.61	0.49
34:BA:1108:G:C2'	34:BA:1109:C:H5'	2.43	0.49
34:BA:1158:C:C2'	34:BA:1158:C:O2	2.61	0.49
34:BA:1236:A:C2	34:BA:1237:C:C4	3.01	0.49
34:BA:1246:C:N3	34:BA:1291:G:C6	2.81	0.49
34:BA:1300:G:O2'	34:BA:1301:U:O5'	2.29	0.49
34:BA:1343:G:C2	34:BA:1344:C:N3	2.81	0.49
34:BA:1376:U:O2	34:BA:1377:A:C5	2.66	0.49
34:BA:1401:G:C8	34:BA:1402:C:C5	3.01	0.49
34:BA:1509:C:O2	34:BA:1509:C:C2'	2.60	0.49
34:BA:264:U:C2'	52:BT:64:PRO:HB2	2.42	0.49
34:BA:287:U:O2	34:BA:288:A:C8	2.66	0.49
34:BA:413:G:H22	34:BA:428:G:H1'	1.77	0.49
34:BA:52:G:N2	34:BA:53:A:H1'	2.28	0.49
34:BA:582:U:C6	52:BT:105:ALA:HB1	2.48	0.49
34:BA:608:A:H2'	34:BA:608:A:N3	2.27	0.49
34:BA:795:C:C4'	34:BA:1506:U:C2	2.96	0.49
34:BA:803:G:H2'	34:BA:804:U:O5'	2.12	0.49
34:BA:803:G:C2'	34:BA:804:U:O5'	2.60	0.49
34:BA:79:G:O6	34:BA:90:U:O2	2.31	0.49
34:BA:948:C:O2'	34:BA:949:A:H5'	2.12	0.49
35:BB:53:G:H3'	35:BB:53:G:C8	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BC:3:G:H2'	35:BC:4:G:O5'	2.12	0.49
37:BE:207:ALA:O	37:BE:209:ARG:N	2.46	0.49
39:BG:128:VAL:HG13	39:BG:129:ASN:N	2.25	0.49
39:BG:195:ALA:O	39:BG:196:LEU:O	2.29	0.49
40:BH:79:GLU:O	43:BK:104:ARG:CZ	2.60	0.49
34:BA:1373:G:O2'	42:BJ:34:GLY:HA2	2.12	0.49
34:BA:1199:U:C4'	45:BM:54:PHE:CE2	2.95	0.49
45:BM:15:THR:HG23	45:BM:94:VAL:HG22	1.94	0.49
46:BN:54:ARG:O	46:BN:55:LYS:C	2.51	0.49
46:BN:65:ALA:CB	46:BN:98:LEU:HD21	2.42	0.49
48:BP:13:LYS:HB3	48:BP:17:VAL:HB	1.93	0.49
50:BR:34:LEU:HD23	50:BR:35:ARG:CA	2.42	0.49
34:BA:376:G:OP1	51:BS:6:LEU:HD13	2.11	0.49
51:BS:9:PHE:CD2	51:BS:9:PHE:N	2.79	0.49
1:AB:12:C:H42	27:A3:50:GLY:H	1.59	0.49
44:BL:88:TYR:CD2	44:BL:89:ASN:ND2	2.81	0.49
40:BH:68:GLU:HA	40:BH:68:GLU:OE2	2.11	0.49
40:BH:53:LEU:H	40:BH:53:LEU:CD2	2.25	0.49
2:AA:1038:C:H2'	2:AA:1038:C:O2	2.12	0.49
2:AA:2881:C:OP1	24:A0:90:ARG:NH1	2.46	0.49
26:A2:74:TYR:OH	26:A2:89:ASN:ND2	2.45	0.49
27:A3:38:VAL:C	27:A3:40:GLN:N	2.47	0.49
27:A3:39:ARG:N	27:A3:69:PHE:CZ	2.76	0.49
31:A7:28:ARG:CA	31:A7:31:LEU:CD1	2.87	0.49
2:AA:1057:A:N1	2:AA:1058:G:C5	2.80	0.49
2:AA:108:U:O2'	2:AA:109:G:P	2.71	0.49
2:AA:134:C:O2	2:AA:146:G:C2	2.65	0.49
2:AA:138:G:C3'	2:AA:139:G:H4'	2.42	0.49
2:AA:1477:A:H5'	2:AA:1478:G:OP2	2.13	0.49
2:AA:1429:G:N3	2:AA:1568:G:C2	2.81	0.49
2:AA:1582:C:H2'	2:AA:1583:A:C1'	2.42	0.49
2:AA:1746:G:C3'	2:AA:1747:G:H8	2.24	0.49
2:AA:152:G:N2	2:AA:176:G:C2	2.80	0.49
2:AA:1906:G:C6	2:AA:1907:G:C6	3.00	0.49
2:AA:1905:C:H3'	2:AA:1930:G:O6	2.13	0.49
2:AA:1986:A:C2	2:AA:1987:G:C4	3.01	0.49
2:AA:2133:G:N3	2:AA:2133:G:H2'	2.27	0.49
2:AA:215:G:H1'	2:AA:216:A:C4'	2.43	0.49
2:AA:2187:G:H2'	2:AA:2188:C:O4'	2.12	0.49
2:AA:2230:G:O2'	2:AA:2231:C:H5'	2.12	0.49
2:AA:2364:C:N4	2:AA:2365:G:N1	2.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2397:G:N2	2:AA:2420:C:C1'	2.63	0.49
2:AA:2423:U:C2'	2:AA:2424:C:OP2	2.61	0.49
2:AA:826:U:H5''	2:AA:2428:G:C3'	2.42	0.49
2:AA:2065:C:N4	2:AA:2445:G:H1	2.11	0.49
2:AA:2459:A:N7	2:AA:2460:U:C5	2.80	0.49
2:AA:2466:C:C4	2:AA:2467:C:C4	3.00	0.49
2:AA:2575:C:H2'	2:AA:2575:C:O2	2.11	0.49
2:AA:2584:U:H2'	2:AA:2585:U:C5	2.44	0.49
2:AA:2605:U:C2'	2:AA:2606:C:H5'	2.42	0.49
2:AA:2023:G:H5''	2:AA:2617:C:O2'	2.11	0.49
2:AA:270(D):C:O2	2:AA:270(E):G:C8	2.66	0.49
2:AA:273(D):C:N3	2:AA:363(B):G:C2	2.79	0.49
2:AA:2766:G:N3	2:AA:2766:G:C2'	2.75	0.49
2:AA:2820:A:O2'	2:AA:2821:A:P	2.70	0.49
2:AA:2834:G:C3'	2:AA:2834:G:C8	2.96	0.49
2:AA:2856:C:H2'	2:AA:2857:G:H8	1.78	0.49
2:AA:2888:C:O2'	2:AA:2889:C:H5'	2.13	0.49
2:AA:296:C:H2'	2:AA:297:C:C6	2.47	0.49
2:AA:31:C:O2'	2:AA:32:C:H5'	2.12	0.49
2:AA:429:A:C6	2:AA:430:G:O6	2.66	0.49
2:AA:448:U:O2'	6:AF:84:VAL:HG12	2.13	0.49
2:AA:593:G:H1'	32:A8:3:LYS:HZ1	1.74	0.49
2:AA:594:U:C2	2:AA:595:C:C5	3.00	0.49
2:AA:701:G:N2	2:AA:731:C:C2	2.71	0.49
2:AA:715:G:C8	2:AA:715:G:H3'	2.47	0.49
2:AA:784:A:O2'	2:AA:785:G:C5'	2.45	0.49
2:AA:917:A:C8	2:AA:2268:A:N6	2.73	0.49
2:AA:958:U:H2'	2:AA:959:A:OP2	2.13	0.49
2:AA:976:C:O2	2:AA:977:G:C8	2.66	0.49
1:AB:18:G:N3	1:AB:19:G:C8	2.80	0.49
1:AB:28:C:H2'	1:AB:29:A:C8	2.47	0.49
1:AB:33:G:C6	1:AB:34:U:O4	2.66	0.49
1:AB:45:A:C4	1:AB:46:A:N7	2.81	0.49
3:AC:41:VAL:HA	3:AC:216:THR:HG22	1.94	0.49
3:AC:91:ALA:HB2	3:AC:153:ILE:CD1	2.43	0.49
4:AD:120:ASP:OD1	4:AD:121:ALA:O	2.31	0.49
4:AD:130:PRO:CA	4:AD:188:ARG:HG2	2.43	0.49
4:AD:154:VAL:CG1	4:AD:154:VAL:O	2.60	0.49
5:AE:263:GLU:O	5:AE:266:LYS:HE3	2.13	0.49
5:AE:299:SER:C	5:AE:301:PRO:CD	2.81	0.49
5:AE:41:PHE:CB	5:AE:311:PHE:CE1	2.92	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:87:GLU:N	8:AH:148:ARG:HH21	2.09	0.49
8:AH:148:ARG:O	8:AH:161:ILE:HG13	2.13	0.49
8:AH:89:VAL:O	8:AH:159:LYS:HA	2.13	0.49
9:AI:40:ALA:C	9:AI:43:PRO:HD2	2.33	0.49
9:AI:4:ASP:OD1	11:AL:116:LEU:O	2.30	0.49
12:AM:15:ARG:HA	12:AM:44:ALA:N	2.28	0.49
13:AN:68:GLY:HA3	13:AN:78:ARG:CD	2.32	0.49
13:AN:70:ARG:HG2	13:AN:76:TYR:CE2	2.46	0.49
14:AO:104:ASP:O	14:AO:105:TYR:CB	2.60	0.49
15:AP:28:ILE:HG23	15:AP:62:GLU:HG2	1.94	0.49
15:AP:35:ASN:HD21	21:AV:114:ASP:H	1.57	0.49
16:AQ:116:PHE:O	16:AQ:120:GLU:OE1	2.31	0.49
16:AQ:46:GLN:CG	16:AQ:57:THR:HG21	2.42	0.49
19:AT:32:ALA:HB3	19:AT:37:VAL:CG2	2.42	0.49
19:AT:76:GLU:O	19:AT:78:ALA:N	2.46	0.49
21:AV:52:PHE:H	21:AV:65:LEU:HD12	1.70	0.49
15:AP:42:TYR:HB2	21:AV:99:HIS:CE1	2.47	0.49
23:AX:39:ASP:O	23:AX:40:THR:C	2.50	0.49
34:BA:1027:C:N4	34:BA:1028:C:N4	2.61	0.49
34:BA:1072:G:N1	34:BA:1104:G:C2	2.81	0.49
34:BA:1150:U:C2	34:BA:1151:A:N7	2.81	0.49
34:BA:1171:G:O2'	34:BA:1172:C:O4'	2.29	0.49
34:BA:1178:G:O5'	34:BA:1178:G:H8	1.96	0.49
34:BA:1054:C:P	34:BA:1196:U:O3'	2.71	0.49
34:BA:1368:G:N2	34:BA:1369:C:H1'	2.27	0.49
34:BA:1399:C:C4	34:BA:1502:A:N7	2.80	0.49
2:AA:1920:C:P	34:BA:1517:G:C1'	3.01	0.49
34:BA:1537:U:H2'	34:BA:1538:C:H1'	1.95	0.49
34:BA:175:C:H2'	34:BA:176:C:C6	2.40	0.49
34:BA:147:G:N2	34:BA:176:C:C2	2.81	0.49
34:BA:132:C:C2	34:BA:231:G:C2	3.01	0.49
34:BA:312:C:C2'	34:BA:312:C:O2	2.54	0.49
34:BA:314:C:H2'	34:BA:315:A:N9	2.28	0.49
34:BA:315:A:N1	34:BA:330:C:C6	2.81	0.49
34:BA:452:A:C4	34:BA:453:A:N7	2.81	0.49
34:BA:529:G:C8	34:BA:529:G:H3'	2.48	0.49
34:BA:28:G:C2	34:BA:556:C:N3	2.80	0.49
34:BA:603:U:O2'	34:BA:604:G:H5'	2.13	0.49
34:BA:632:A:H2'	34:BA:633:G:C8	2.47	0.49
34:BA:698:G:O2'	34:BA:699:C:O4'	2.25	0.49
34:BA:802:A:N6	34:BA:803:G:N3	2.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:833:U:C2	34:BA:834:C:C5	3.00	0.49
34:BA:894:G:C4	34:BA:895:G:N7	2.81	0.49
34:BA:909:A:O2'	34:BA:910:C:H5'	2.12	0.49
34:BA:930:C:H42	34:BA:1387:G:H1	1.59	0.49
34:BA:948:C:C2'	34:BA:949:A:O5'	2.61	0.49
34:BA:970:C:H4'	34:BA:972:C:C6	2.47	0.49
34:BA:983:A:C2	34:BA:984:C:C6	2.93	0.49
34:BA:530:G:C5	35:BB:35:A:C1'	2.88	0.49
37:BE:193:ASP:HB2	37:BE:196:LEU:HD23	1.94	0.49
37:BE:44:LEU:HD12	37:BE:45:GLN:OE1	2.13	0.49
39:BG:121:VAL:HA	39:BG:126:ILE:HG13	1.95	0.49
40:BH:15:ARG:HD2	40:BH:27:ARG:O	2.12	0.49
40:BH:92:LYS:HG3	40:BH:93:PRO:HD2	1.95	0.49
43:BK:120:THR:H	43:BK:123:GLU:CG	2.26	0.49
44:BL:102:LEU:N	44:BL:102:LEU:HD23	2.26	0.49
44:BL:121:ARG:HH11	44:BL:121:ARG:HG2	1.77	0.49
44:BL:19:LEU:HD23	44:BL:61:ALA:CA	2.40	0.49
44:BL:51:ARG:O	44:BL:52:ALA:C	2.50	0.49
45:BM:21:GLN:CG	45:BM:25:GLU:OE2	2.60	0.49
47:BO:34:ARG:HE	47:BO:61:THR:HG21	1.78	0.49
48:BP:59:TYR:CD2	48:BP:60:VAL:HG23	2.47	0.49
49:BQ:27:CYS:O	49:BQ:40:CYS:SG	2.71	0.49
51:BS:78:GLY:O	51:BS:79:VAL:CG2	2.61	0.49
34:BA:761:G:H4'	52:BT:103:GLY:C	2.32	0.49
52:BT:5:VAL:CB	52:BT:59:ILE:O	2.61	0.49
53:BU:21:LYS:HZ1	53:BU:23:LYS:CB	2.18	0.49
55:BW:89:ARG:O	55:BW:90:GLN:C	2.50	0.49
35:BB:29:A:C6	35:BB:30:G:N7	2.81	0.49
10:AK:114:LYS:CD	10:AK:133:LEU:HA	2.42	0.49
10:AK:124:LEU:HG	10:AK:125:GLY:H	1.77	0.49
10:AK:81:ALA:HB1	10:AK:89:LEU:HD22	1.89	0.49
35:BB:11:C:O2	35:BB:12:U:C2	2.66	0.49
37:BE:132:LYS:O	37:BE:135:GLN:HB2	2.12	0.49
21:AV:26:LYS:O	21:AV:27:GLU:CB	2.61	0.49
37:BE:28:PHE:CD1	37:BE:31:TYR:HB3	2.47	0.49
1:AB:1:U:C3'	1:AB:1:U:C6	2.96	0.49
25:A1:59:ARG:O	25:A1:60:LEU:C	2.51	0.49
2:AA:2331:G:H4'	27:A3:70:ILE:HB	1.95	0.49
2:AA:17:G:P	29:A5:13:LYS:NZ	2.86	0.49
2:AA:1021:A:N1	2:AA:1023:U:C2	2.81	0.49
2:AA:1028:A:H2'	2:AA:1029:A:C8	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1212:G:C2	2:AA:1236:G:O6	2.66	0.49
2:AA:1237:A:O2'	2:AA:1238:G:P	2.70	0.49
2:AA:137:C:C4	2:AA:142:G:N1	2.80	0.49
2:AA:1436:G:C6	2:AA:1437:C:C4	3.01	0.49
2:AA:1526:G:C5'	2:AA:1527:G:OP1	2.60	0.49
2:AA:1529:A:N7	2:AA:1542:G:C6	2.81	0.49
2:AA:1416:G:H22	2:AA:1582:C:H42	1.61	0.49
2:AA:1614:A:N7	18:AS:88:ARG:CD	2.59	0.49
2:AA:1668:A:C6	2:AA:1674:G:N3	2.81	0.49
2:AA:1693:U:C5'	2:AA:1694:C:OP2	2.60	0.49
2:AA:1695:G:C2	2:AA:1696:G:O4'	2.66	0.49
2:AA:154:G:O6	2:AA:172:C:N3	2.46	0.49
2:AA:1758:G:N1	2:AA:2696:U:H5'	2.28	0.49
2:AA:1796:U:C2'	2:AA:1797:C:C6	2.96	0.49
2:AA:1803:A:C8	2:AA:1804:C:H5	2.29	0.49
2:AA:1830:C:C2	2:AA:1831:G:C8	3.01	0.49
2:AA:1861:G:C5'	3:AC:205:LYS:CE	2.89	0.49
2:AA:1894:C:H2'	2:AA:1895:C:C6	2.47	0.49
2:AA:1928:A:C3'	2:AA:1928:A:C8	2.95	0.49
2:AA:1943:U:C1'	2:AA:1945:G:H5'	2.39	0.49
2:AA:1945:G:C2	2:AA:1946:U:C5	3.01	0.49
2:AA:1969:A:C5'	2:AA:1970:A:H5'	2.42	0.49
2:AA:2022:U:H4'	2:AA:2023:G:OP1	2.08	0.49
2:AA:2040:C:N3	2:AA:2041:U:C4	2.81	0.49
2:AA:2081:C:H5'	28:A4:35:VAL:CG2	2.43	0.49
2:AA:2082:A:H2'	2:AA:2083:G:C8	2.48	0.49
2:AA:2217:G:N3	2:AA:2218:G:C8	2.80	0.49
2:AA:2458:G:H2'	2:AA:2490:G:H1	1.78	0.49
2:AA:2560:C:O2	2:AA:2560:C:C2'	2.36	0.49
2:AA:2623:G:H2'	2:AA:2624:G:O5'	2.12	0.49
2:AA:270(C):C:C6	2:AA:270(D):C:H5	2.30	0.49
2:AA:282:A:OP2	2:AA:282:A:H8	1.96	0.49
2:AA:271(C):U:O4	2:AA:421:U:H2'	2.13	0.49
2:AA:449:A:N3	2:AA:450:G:C8	2.80	0.49
2:AA:468:G:C2'	2:AA:469:G:C5'	2.91	0.49
2:AA:811:U:C3'	2:AA:811:U:C6	2.96	0.49
2:AA:914:C:H2'	2:AA:915:C:C5'	2.38	0.49
2:AA:916:G:O5'	2:AA:916:G:C8	2.57	0.49
2:AA:846:C:H42	2:AA:932:G:H1	1.61	0.49
2:AA:939:G:O2'	2:AA:940:G:C5'	2.58	0.49
2:AA:955:C:C2'	2:AA:956:G:C5'	2.86	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:974:G:H3'	26:A2:82:ARG:NH2	2.27	0.49
2:AA:985:C:H2'	2:AA:985:C:O2	2.12	0.49
1:AB:74:U:C2'	1:AB:75:G:C8	2.87	0.49
3:AC:95:GLY:HA3	3:AC:99:ILE:CG1	2.42	0.49
4:AD:140:VAL:CG1	4:AD:191:VAL:HG12	2.42	0.49
5:AE:175:ASP:C	5:AE:177:ALA:N	2.65	0.49
5:AE:222:ARG:O	5:AE:227:ALA:CA	2.58	0.49
5:AE:227:ALA:O	5:AE:231:TRP:O	2.29	0.49
5:AE:222:ARG:HE	5:AE:233:ARG:HA	1.77	0.49
5:AE:205:THR:OG1	5:AE:258:TYR:C	2.50	0.49
6:AF:164:ALA:HB1	6:AF:232:LEU:CD1	2.42	0.49
7:AG:19:GLU:OE2	7:AG:139:TYR:HD2	1.95	0.49
8:AH:34:ARG:HH11	8:AH:70:LEU:CD2	2.25	0.49
9:AI:58:GLU:O	9:AI:128:LYS:NZ	2.46	0.49
9:AI:39:VAL:HG13	9:AJ:39:VAL:HG22	1.94	0.49
2:AA:2093:G:C4'	10:AK:29:PHE:CE1	2.91	0.49
10:AK:45:LYS:O	10:AK:46:ALA:C	2.50	0.49
11:AL:117:ASN:O	11:AL:118:ALA:C	2.51	0.49
11:AL:15:ALA:HA	11:AL:46:THR:CG2	2.43	0.49
11:AL:37:GLU:HB3	11:AL:41:ARG:NH1	2.28	0.49
13:AN:13:ASN:C	13:AN:15:GLY:N	2.65	0.49
14:AO:110:GLY:N	14:AO:126:SER:OG	2.45	0.49
15:AP:49:VAL:HA	15:AP:121:ASP:CB	2.43	0.49
18:AS:30:GLU:N	18:AS:33:ARG:CD	2.76	0.49
2:AA:2010:G:OP1	18:AS:41:LYS:HB3	2.12	0.49
18:AS:69:LEU:HD23	18:AS:109:GLU:HA	1.94	0.49
21:AV:116:VAL:C	21:AV:118:HIS:H	2.16	0.49
22:AW:60:GLN:C	22:AW:60:GLN:OE1	2.51	0.49
23:AX:6:VAL:HG22	23:AX:54:VAL:HG21	1.94	0.49
34:BA:1074:G:N7	34:BA:1075:C:C5	2.80	0.49
34:BA:1098:C:C2'	34:BA:1099:G:H5'	2.40	0.49
34:BA:1126:U:H2'	34:BA:1127:G:O5'	2.13	0.49
34:BA:1232:U:OP1	44:BL:126:SER:CB	2.61	0.49
34:BA:1238:A:C2	34:BA:1241:G:N3	2.81	0.49
34:BA:1336:C:H1'	34:BA:1337:G:N1	2.28	0.49
34:BA:1406:U:C2	34:BA:1407:C:C5	3.00	0.49
34:BA:1454:G:O2'	34:BA:1455:G:O5'	2.30	0.49
34:BA:1494:G:N3	34:BA:1495:U:C5	2.80	0.49
34:BA:1528:U:HO2'	34:BA:1529:G:P	2.35	0.49
34:BA:15:G:C2	34:BA:16:A:C5	3.01	0.49
34:BA:162:A:H2'	34:BA:163:C:C4'	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:67:C:H1'	34:BA:172:A:H1'	1.94	0.49
34:BA:384:G:H2'	34:BA:385:C:O4'	2.11	0.49
34:BA:405:U:O4	39:BG:2:GLY:CA	2.61	0.49
34:BA:462:G:N2	34:BA:463:A:C4	2.81	0.49
34:BA:501:C:N4	34:BA:502:G:O6	2.45	0.49
34:BA:533:A:C6	34:BA:536:C:C5	3.00	0.49
34:BA:538:G:P	47:BO:115:LYS:CG	3.01	0.49
34:BA:553:A:H2'	34:BA:554:C:O4'	2.13	0.49
34:BA:586:C:OP1	52:BT:34:LYS:HD3	2.13	0.49
34:BA:670:G:H2'	34:BA:671:G:O5'	2.13	0.49
34:BA:792:A:C2'	34:BA:794:A:N6	2.68	0.49
34:BA:857:C:O2'	34:BA:858:G:H5'	2.13	0.49
34:BA:862:C:C1'	34:BA:874:G:H5''	2.34	0.49
34:BA:890:G:C2'	34:BA:891:U:OP2	2.61	0.49
34:BA:892:A:C6	34:BA:907:A:C8	3.00	0.49
35:BB:32:C:C5	35:BB:33:U:C4	3.01	0.49
35:BC:58:A:H3'	35:BC:61:C:H41	1.78	0.49
37:BE:141:GLU:HG2	37:BE:145:LEU:HD23	1.93	0.49
37:BE:97:TRP:CD2	37:BE:173:ALA:HB2	2.48	0.49
37:BE:45:GLN:O	37:BE:49:GLU:OE1	2.30	0.49
38:BF:88:ARG:HH21	38:BF:100:ALA:CB	2.25	0.49
38:BF:97:LYS:O	38:BF:98:ASN:OD1	2.30	0.49
39:BG:105:VAL:CG1	39:BG:117:ALA:HA	2.43	0.49
39:BG:31:CYS:O	39:BG:32:ALA:HB3	2.12	0.49
39:BG:94:LEU:HD11	39:BG:200:GLU:CD	2.33	0.49
40:BH:76:ILE:HG21	40:BH:142:LEU:HD22	1.94	0.49
41:BI:45:LEU:CD2	41:BI:59:TYR:CD1	2.94	0.49
41:BI:48:LEU:HD22	41:BI:60:PHE:CZ	2.48	0.49
37:BE:181:PHE:CD1	43:BK:71:GLY:HA3	2.47	0.49
43:BK:44:PHE:HA	43:BK:79:VAL:HG13	1.95	0.49
44:BL:49:PRO:HG3	44:BL:78:LYS:CD	2.42	0.49
46:BN:84:VAL:O	46:BN:84:VAL:HG23	2.12	0.49
47:BO:37:CYS:O	47:BO:79:GLU:HA	2.12	0.49
47:BO:58:VAL:O	47:BO:60:LEU:CD1	2.61	0.49
48:BP:58:GLU:C	48:BP:61:GLU:HB2	2.33	0.49
51:BS:54:GLU:O	51:BS:56:ALA:N	2.46	0.49
52:BT:74:LEU:C	52:BT:74:LEU:CD1	2.75	0.49
53:BU:79:LEU:N	53:BU:79:LEU:HD13	2.28	0.49
55:BW:20:LEU:O	55:BW:23:ARG:HB3	2.13	0.49
10:AK:110:LEU:HD11	10:AK:114:LYS:HZ2	1.78	0.49
10:AK:115:ILE:N	10:AK:131:VAL:HG13	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:141:LEU:CD2	10:AK:142:LYS:N	2.70	0.49
37:BE:126:GLU:O	37:BE:127:ILE:O	2.30	0.49
5:AE:65:MET:SD	5:AE:65:MET:C	2.91	0.49
27:A3:87:GLU:OE2	27:A3:87:GLU:N	2.45	0.49
25:A1:86:ALA:CB	25:A1:90:LEU:HD23	2.43	0.49
25:A1:99:ALA:CB	25:A1:106:PHE:CG	2.96	0.49
27:A3:18:PRO:O	27:A3:19:LYS:CB	2.60	0.49
27:A3:44:LYS:C	27:A3:45:PHE:CD1	2.86	0.49
28:A4:5:LEU:CD1	28:A4:10:VAL:HG23	2.43	0.49
18:AS:23:LEU:HD11	29:A5:27:ALA:H	1.73	0.49
29:A5:46:CYS:O	29:A5:49:CYS:N	2.46	0.49
32:A8:19:THR:CB	32:A8:21:LYS:HZ2	2.25	0.49
2:AA:1021:A:H3'	2:AA:1021:A:H8	1.77	0.49
2:AA:1021:A:H5''	12:AM:49:ARG:HH11	1.77	0.49
2:AA:1024:G:O6	2:AA:1025:G:C8	2.64	0.49
2:AA:1081:U:H5''	11:AL:123:ALA:CA	2.40	0.49
2:AA:1150:C:H2'	2:AA:1151:G:C8	2.48	0.49
2:AA:1214:A:H2'	2:AA:1214:A:N3	2.27	0.49
2:AA:1342:A:N3	2:AA:1345:C:C5	2.81	0.49
2:AA:1404:C:H2'	2:AA:1404:C:O2	2.12	0.49
2:AA:1427:A:OP1	2:AA:1427:A:C8	2.66	0.49
2:AA:1439:A:C8	2:AA:1440:G:O4'	2.66	0.49
2:AA:181:A:H2'	2:AA:182:A:C8	2.47	0.49
2:AA:1890:A:H2	2:AA:2235:G:H4'	1.78	0.49
2:AA:1926:U:C3'	2:AA:1926:U:C6	2.95	0.49
2:AA:1947:C:C4	2:AA:1948:G:N7	2.81	0.49
2:AA:1956:U:C2	2:AA:1957:C:C6	3.00	0.49
2:AA:1769:G:N1	2:AA:1984:G:C6	2.81	0.49
2:AA:1995:U:H3'	2:AA:1995:U:C6	2.48	0.49
2:AA:1326:U:H5'	2:AA:2010:G:N2	2.27	0.49
2:AA:2038:G:O5'	2:AA:2038:G:C8	2.58	0.49
2:AA:204:A:O2'	2:AA:205:G:C5'	2.61	0.49
2:AA:2069:G:N2	2:AA:2070:G:C4	2.81	0.49
2:AA:2227:A:C2	2:AA:2228:G:C6	3.01	0.49
2:AA:2250:G:H5''	15:AP:102:ARG:CG	2.42	0.49
2:AA:2317:C:N4	2:AA:2318:G:O6	2.46	0.49
2:AA:2324:C:N4	2:AA:2331:G:N1	2.07	0.49
2:AA:2437:U:HO2'	2:AA:2438:U:C5'	2.26	0.49
2:AA:244:A:C4	2:AA:255:A:N6	2.81	0.49
2:AA:2472:G:H1'	2:AA:2478:A:H61	1.77	0.49
2:AA:2478:A:C8	2:AA:2478:A:C3'	2.96	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2485:G:H2'	2:AA:2486:G:O4'	2.13	0.49
2:AA:1255:U:H6	2:AA:2502:G:H21	1.61	0.49
2:AA:2631:G:C6	2:AA:2632:A:C8	3.01	0.49
2:AA:2660:A:H2'	2:AA:2661:G:O4'	2.13	0.49
2:AA:2712:U:OP1	2:AA:2714:G:C4'	2.61	0.49
2:AA:2789:C:C2	2:AA:2790:A:C2	3.01	0.49
2:AA:2808:U:C3'	2:AA:2809:A:H5''	2.42	0.49
2:AA:370:G:C2	2:AA:424:G:C8	3.01	0.49
2:AA:36:G:H2'	2:AA:37:C:O4'	2.13	0.49
2:AA:572:A:N7	2:AA:573:G:C6	2.81	0.49
2:AA:646:A:C2	2:AA:647:G:C4	3.01	0.49
2:AA:71:A:C2	2:AA:73:A:H8	2.28	0.49
2:AA:881:G:C2	2:AA:882:G:H1'	2.48	0.49
2:AA:975:G:N1	2:AA:976:C:C5	2.80	0.49
3:AC:10:LEU:HG	3:AC:32:LEU:HB3	1.94	0.49
4:AD:90:ILE:CD1	4:AD:105:ALA:H	2.25	0.49
4:AD:73:ILE:O	4:AD:116:MET:HG3	2.13	0.49
4:AD:132:GLU:O	4:AD:134:ILE:N	2.46	0.49
4:AD:141:HIS:C	4:AD:143:ILE:N	2.61	0.49
4:AD:161:ALA:HA	4:AD:174:ARG:O	2.13	0.49
4:AD:166:LYS:HB2	4:AD:171:VAL:CG1	2.40	0.49
4:AD:174:ARG:HH21	4:AD:180:VAL:HG11	1.77	0.49
4:AD:234:HIS:HB3	4:AD:235:PRO:HD2	1.95	0.49
4:AD:68:ARG:NH2	4:AD:128:ALA:HB3	2.27	0.49
4:AD:76:ARG:HD3	4:AD:113:MET:HB2	1.90	0.49
5:AE:222:ARG:NH1	5:AE:234:ARG:NH2	2.61	0.49
5:AE:226:HIS:CB	5:AE:229:GLN:OE1	2.61	0.49
6:AF:153:VAL:HG13	6:AF:157:LEU:HD21	1.94	0.49
7:AG:21:VAL:HG21	7:AG:80:ALA:HB1	1.94	0.49
8:AH:10:ILE:O	8:AH:14:VAL:CB	2.60	0.49
8:AH:55:SER:O	8:AH:57:GLU:HG2	2.13	0.49
9:AI:125:VAL:HG12	9:AI:126:GLU:N	2.28	0.49
2:AA:1084:A:H1'	9:AI:25:LEU:CB	2.43	0.49
9:AJ:42:ALA:O	9:AJ:43:PRO:C	2.51	0.49
9:AJ:74:ILE:HB	11:AL:61:TYR:CE2	2.48	0.49
9:AJ:71:ILE:CB	11:AL:61:TYR:HB2	2.41	0.49
12:AM:50:GLU:O	12:AM:54:VAL:CG2	2.60	0.49
12:AM:70:PHE:O	12:AM:71:TYR:HB2	2.12	0.49
14:AO:60:GLU:N	14:AO:60:GLU:OE1	2.46	0.49
14:AO:71:GLU:HA	14:AO:74:THR:CG2	2.38	0.49
16:AQ:53:ASN:O	16:AQ:53:ASN:CG	2.50	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:55:ALA:HA	18:AS:58:ALA:HB3	1.94	0.49
19:AT:9:HIS:CE1	19:AT:27:ALA:HA	2.48	0.49
21:AV:55:THR:HG23	21:AV:61:THR:CG2	2.42	0.49
22:AW:62:GLU:N	22:AW:62:GLU:CD	2.65	0.49
2:AA:929:G:O3'	23:AX:37:LEU:CD2	2.61	0.49
34:BA:1281:U:H6	34:BA:1281:U:H3'	1.76	0.49
34:BA:128:G:H5'	52:BT:2:PRO:HD2	1.94	0.49
34:BA:1455:G:OP1	55:BW:32:ALA:HA	2.13	0.49
34:BA:166:G:N2	34:BA:167:G:H1'	2.28	0.49
34:BA:247:G:H1	34:BA:277:C:H42	1.58	0.49
34:BA:245:C:C2	34:BA:284:G:C2	3.01	0.49
34:BA:315:A:N1	34:BA:330:C:C5	2.81	0.49
34:BA:319:G:H2'	34:BA:320:C:O5'	2.13	0.49
34:BA:342:C:C2	34:BA:348:G:C2	3.01	0.49
34:BA:398:C:O5'	34:BA:398:C:H6	1.95	0.49
34:BA:511:C:N1	34:BA:512:U:C5	2.80	0.49
34:BA:539:A:OP1	47:BO:114:LYS:CE	2.59	0.49
34:BA:568:G:C2	34:BA:569:C:C5	3.00	0.49
34:BA:583:A:H61	34:BA:758:G:H1'	1.78	0.49
34:BA:621:A:N6	34:BA:622:A:N6	2.61	0.49
34:BA:625:G:H4'	51:BS:16:HIS:CD2	2.48	0.49
34:BA:701:C:H5''	34:BA:702:A:H3'	1.94	0.49
34:BA:703:G:C8	34:BA:703:G:P	3.05	0.49
34:BA:715:A:C5'	34:BA:777:A:N6	2.75	0.49
34:BA:734:G:H2'	34:BA:735:C:H6	1.66	0.49
34:BA:77:G:H1	34:BA:92:C:H42	0.65	0.49
34:BA:947:G:C2	34:BA:948:C:C2	3.01	0.49
34:BA:970:C:H4'	34:BA:972:C:C5	2.48	0.49
34:BA:99:C:C6	34:BA:99:C:H3'	2.48	0.49
35:BC:36:A:H2'	35:BC:37:G:O5'	2.13	0.49
37:BE:121:LEU:O	37:BE:122:PHE:HD1	1.94	0.49
37:BE:207:ALA:O	37:BE:208:ILE:C	2.50	0.49
37:BE:62:ALA:CB	37:BE:225:ALA:HB3	2.43	0.49
38:BF:23:TYR:CD1	45:BM:11:PHE:CG	3.01	0.49
38:BF:59:ARG:CD	38:BF:64:VAL:HG22	2.43	0.49
39:BG:193:ASP:O	39:BG:194:LEU:HD22	2.13	0.49
40:BH:15:ARG:HH11	40:BH:15:ARG:CG	2.21	0.49
34:BA:922:G:C5'	40:BH:20:GLN:HE21	2.23	0.49
40:BH:35:GLY:HA3	40:BH:41:VAL:CG1	2.43	0.49
42:BJ:138:LYS:O	42:BJ:139:GLU:C	2.50	0.49
42:BJ:8:GLU:O	42:BJ:9:VAL:C	2.50	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BK:60:ARG:HG3	43:BK:61:VAL:H	1.77	0.49
43:BK:6:ILE:CG2	43:BK:7:ALA:N	2.63	0.49
43:BK:82:HIS:O	43:BK:137:VAL:CA	2.54	0.49
47:BO:114:LYS:O	47:BO:117:ARG:CG	2.58	0.49
48:BP:29:ARG:NH1	48:BP:64:TRP:CD1	2.80	0.49
49:BQ:12:ARG:O	49:BQ:13:THR:C	2.51	0.49
34:BA:979:C:N3	49:BQ:19:ARG:HG3	2.28	0.49
34:BA:750:G:H1'	50:BR:22:THR:OG1	2.13	0.49
51:BS:14:ASN:HA	51:BS:42:ARG:HH22	1.75	0.49
51:BS:23:ASP:OD1	51:BS:25:ARG:NE	2.46	0.49
51:BS:4:ILE:HG13	51:BS:66:PRO:CA	2.43	0.49
52:BT:53:LEU:CD1	52:BT:54:GLY:N	2.73	0.49
52:BT:97:SER:HB2	52:BT:102:GLY:O	2.13	0.49
54:BV:10:PHE:O	54:BV:11:VAL:CG2	2.60	0.49
54:BV:36:ARG:NH2	54:BV:72:GLY:O	2.44	0.49
54:BV:63:THR:H	54:BV:66:MET:CG	2.26	0.49
36:B1:21:U:H2'	36:B1:22:C:C6	2.47	0.49
2:AA:1284:A:H2'	2:AA:1285:G:C8	2.47	0.49
43:BK:51:VAL:HG12	43:BK:52:ASP:H	1.76	0.49
27:A3:82:GLU:C	27:A3:84:ALA:H	2.16	0.49
24:A0:32:GLY:HA2	24:A0:116:LEU:HD21	0.80	0.49
24:A0:89:ASP:OD1	24:A0:90:ARG:N	2.46	0.49
25:A1:89:ASP:OD2	26:A2:52:GLY:CA	2.61	0.49
26:A2:72:ARG:CB	26:A2:88:GLN:CG	2.84	0.49
27:A3:47:ALA:HB1	27:A3:73:GLY:O	2.13	0.49
28:A4:2:GLN:C	28:A4:3:LYS:HG3	2.29	0.49
28:A4:6:HIS:N	28:A4:6:HIS:ND1	2.61	0.49
30:A6:2:ALA:N	30:A6:11:LYS:CD	2.74	0.49
2:AA:247:G:C2	32:A8:8:LYS:HE3	2.48	0.49
33:A9:7:VAL:HG13	33:A9:25:VAL:CG2	2.43	0.49
2:AA:109:G:C2'	2:AA:110:G:O5'	2.61	0.49
2:AA:1151:G:H2'	2:AA:1152:C:H6	1.77	0.49
2:AA:1177:A:C4	2:AA:1178:C:C5	3.01	0.49
2:AA:1206:G:H1'	2:AA:1242:A:C6	2.46	0.49
2:AA:1212:G:C4	2:AA:1236:G:N1	2.80	0.49
2:AA:1321:A:C2	2:AA:1322:A:C4	3.01	0.49
2:AA:1346:G:C2	2:AA:1347:G:N7	2.80	0.49
2:AA:1386:C:C2	2:AA:1387:C:C5	3.01	0.49
2:AA:139:G:H3'	2:AA:141(A):C:C2	2.46	0.49
2:AA:1414:G:C6	2:AA:1415:U:O4	2.65	0.49
2:AA:1439:A:O2'	2:AA:1440:G:H5'	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:13:A:O2'	2:AA:14:A:OP2	2.29	0.49
2:AA:1534:G:O6	2:AA:1539:G:H1'	2.12	0.49
2:AA:1578:U:H3'	2:AA:1579:A:C8	2.47	0.49
2:AA:1324:G:O2'	2:AA:1616:A:N6	2.46	0.49
2:AA:1776:G:N2	2:AA:1777:U:C2	2.81	0.49
2:AA:182:A:H2'	2:AA:183:C:C5	2.48	0.49
2:AA:1933:G:H2'	2:AA:1934:C:C5'	2.43	0.49
2:AA:1995:U:C4	2:AA:1996:C:N4	2.80	0.49
2:AA:2004:G:C8	2:AA:2005:A:N7	2.80	0.49
2:AA:2023:G:N2	2:AA:2040:C:C2	2.73	0.49
2:AA:2078:C:H2'	2:AA:2079:U:O4'	2.13	0.49
2:AA:1889:A:O4'	2:AA:2087:G:C4'	2.61	0.49
2:AA:2295:C:O2'	2:AA:2296:U:H5'	2.13	0.49
2:AA:645:C:OP2	2:AA:2369:A:C4'	2.60	0.49
2:AA:2423:U:C6	2:AA:2423:U:C5'	2.93	0.49
2:AA:2464:C:C2	2:AA:2465:C:C6	3.00	0.49
2:AA:2468:G:H22	2:AA:2481:G:C1'	2.23	0.49
2:AA:2509:G:C2	2:AA:2510:C:N1	2.81	0.49
2:AA:2589:A:N6	2:AA:2590:A:C6	2.81	0.49
2:AA:2781:A:OP1	2:AA:2781:A:O4'	2.30	0.49
2:AA:2832:U:O2'	2:AA:2834:G:C4	2.63	0.49
2:AA:2862:G:O2'	2:AA:2863:C:H5'	2.13	0.49
2:AA:290:G:C3'	2:AA:290:G:C8	2.96	0.49
2:AA:30:G:O2'	2:AA:31:C:C5'	2.60	0.49
2:AA:374:A:O2'	2:AA:375:C:H5'	2.13	0.49
2:AA:38:A:C2'	2:AA:39:C:H6	2.26	0.49
2:AA:459:U:OP2	31:A7:40:HIS:CD2	2.66	0.49
2:AA:46:C:C5	2:AA:215:G:N7	2.81	0.49
2:AA:457:A:H8	2:AA:471:A:N6	2.06	0.49
2:AA:262:A:H5''	2:AA:609(A):G:H5'	1.95	0.49
2:AA:61:G:C5	2:AA:62:C:C4	3.01	0.49
2:AA:685:A:O5'	2:AA:774:A:N6	2.46	0.49
2:AA:748:G:C5	2:AA:750:A:C5	3.00	0.49
2:AA:804:A:C2'	2:AA:806:C:H42	2.26	0.49
2:AA:863:A:C4	2:AA:864:G:N7	2.81	0.49
2:AA:847:U:N3	2:AA:934:G:N3	2.54	0.49
2:AA:957:A:H5''	2:AA:957:A:H8	1.78	0.49
2:AA:975:G:N3	2:AA:975:G:H2'	2.28	0.49
1:AB:11:C:N3	1:AB:109:G:C6	2.77	0.49
1:AB:34:U:C4	1:AB:48:A:N1	2.81	0.49
1:AB:76:G:H2'	1:AB:77:U:C4	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:129:ARG:HG2	3:AC:129:ARG:O	2.13	0.49
3:AC:56:GLN:O	3:AC:201:PRO:HB3	2.13	0.49
3:AC:45:ALA:CB	3:AC:212:VAL:HA	2.43	0.49
3:AC:96:GLY:O	3:AC:99:ILE:N	2.46	0.49
4:AD:175:LEU:O	4:AD:176:ALA:C	2.51	0.49
6:AF:142:ASP:O	6:AF:143:ASP:C	2.50	0.49
6:AF:166:ILE:O	6:AF:167:ASP:C	2.50	0.49
6:AF:206:ASN:O	6:AF:207:LEU:HD23	2.13	0.49
6:AF:216:SER:O	6:AF:217:GLU:HB2	2.13	0.49
6:AF:35:VAL:HG12	6:AF:39:GLN:NE2	2.27	0.49
7:AG:78:GLU:O	7:AG:81:GLU:CB	2.61	0.49
9:AI:64:LYS:O	9:AI:65:SER:CB	2.61	0.49
9:AI:91:LEU:O	9:AI:94:LYS:N	2.45	0.49
11:AL:117:ASN:OD1	11:AL:127:ILE:HD13	2.13	0.49
11:AL:131:THR:O	11:AL:132:ALA:C	2.51	0.49
2:AA:1076:C:H5'	11:AL:94:ARG:CZ	2.43	0.49
12:AM:42:GLU:C	12:AM:132:LEU:O	2.51	0.49
13:AN:3:GLN:C	13:AN:4:GLN:O	2.49	0.49
14:AO:62:ALA:HB2	14:AO:105:TYR:HB2	1.93	0.49
14:AO:94:ARG:HD3	14:AO:120:LEU:HB2	1.94	0.49
14:AO:57:VAL:HG12	14:AO:58:GLN:N	2.28	0.49
15:AP:45:GLN:HG2	15:AP:125:TRP:CE2	2.48	0.49
15:AP:135:ALA:O	15:AP:138:ARG:CB	2.61	0.49
15:AP:54:VAL:O	15:AP:56:ILE:N	2.46	0.49
15:AP:57:ARG:C	15:AP:61:LEU:CG	2.81	0.49
15:AP:76:GLY:O	15:AP:82:LYS:C	2.50	0.49
16:AQ:99:GLU:OE2	16:AQ:128:ASP:OD2	2.31	0.49
18:AS:26:GLY:O	18:AS:27:LYS:CG	2.60	0.49
19:AT:34:LYS:HZ2	19:AT:52:VAL:CG1	2.25	0.49
21:AV:98:VAL:HB	21:AV:121:GLN:HE22	1.77	0.49
34:BA:1158:C:N3	34:BA:1181:G:N2	2.61	0.49
34:BA:1163:C:H2'	34:BA:1164:G:C5'	2.43	0.49
34:BA:115:G:H4'	34:BA:116:A:H8	1.78	0.49
34:BA:1214:C:O2	34:BA:1214:C:C2'	2.61	0.49
34:BA:1292:U:O2'	34:BA:1293:G:C5'	2.61	0.49
34:BA:1374:A:H4'	42:BJ:31:MET:HE1	1.95	0.49
34:BA:151:A:C6	34:BA:152:A:C2	3.01	0.49
34:BA:817:C:N4	34:BA:1529:G:C6	2.61	0.49
34:BA:1540:U:C4	34:BA:1541:U:C4	3.01	0.49
34:BA:190(E):U:H5''	34:BA:190(E):U:H6	1.78	0.49
34:BA:321:A:N6	34:BA:322:C:N4	2.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:38:G:C4	34:BA:397:A:C2	3.00	0.49
34:BA:38:G:N1	34:BA:397:A:C2	2.81	0.49
34:BA:520:A:C3'	34:BA:521:G:C5'	2.84	0.49
34:BA:604:G:N1	34:BA:605:U:C2	2.81	0.49
34:BA:662:G:O2'	34:BA:836:G:OP1	2.30	0.49
34:BA:979:C:C6	34:BA:980:C:C6	3.01	0.49
34:BA:979:C:H3'	34:BA:980:C:H6	1.77	0.49
35:BC:75:C:OP1	35:BC:76:A:OP2	2.31	0.49
37:BE:19:HIS:CG	37:BE:20:GLU:N	2.81	0.49
37:BE:203:GLY:O	37:BE:204:ASN:C	2.51	0.49
38:BF:119:ARG:HG2	38:BF:140:ARG:HH22	1.78	0.49
38:BF:182:ILE:HG23	38:BF:203:PHE:N	2.28	0.49
38:BF:28:GLN:CA	38:BF:30:ARG:HH12	2.25	0.49
39:BG:8:VAL:C	39:BG:10:ARG:N	2.67	0.49
39:BG:182:LYS:NZ	39:BG:182:LYS:HB3	2.28	0.49
40:BH:151:LEU:O	43:BK:64:LYS:HE2	2.13	0.49
41:BI:12:PRO:HG3	41:BI:57:GLN:NE2	2.28	0.49
34:BA:738:C:H5'	41:BI:72:VAL:HG21	1.95	0.49
41:BI:91:VAL:CG2	53:BU:72:ARG:NH1	2.52	0.49
42:BJ:121:ALA:O	42:BJ:122:HIS:C	2.52	0.49
43:BK:67:PRO:CG	43:BK:77:GLU:H	2.26	0.49
44:BL:5:TYR:O	44:BL:84:ALA:HA	2.12	0.49
45:BM:45:ARG:CG	45:BM:45:ARG:HH11	2.26	0.49
46:BN:101:SER:O	46:BN:102:GLY:C	2.51	0.49
46:BN:105:VAL:O	46:BN:105:VAL:HG12	2.13	0.49
34:BA:538:G:OP2	47:BO:115:LYS:CG	2.61	0.49
34:BA:585:G:C2'	47:BO:8:ASN:HD21	2.25	0.49
48:BP:48:LEU:HD22	48:BP:53:VAL:CG2	2.37	0.49
48:BP:25:ILE:HG12	48:BP:66:LEU:HD11	1.94	0.49
51:BS:21:VAL:HG23	51:BS:34:GLU:HB3	1.93	0.49
51:BS:49:LEU:HD12	51:BS:50:LYS:N	2.28	0.49
52:BT:29:HIS:CG	52:BT:32:TYR:H	2.31	0.49
54:BV:33:THR:CG2	54:BV:34:TRP:H	2.24	0.49
35:BB:29:A:N3	35:BB:30:G:C8	2.81	0.49
2:AA:1037:G:N1	2:AA:1119:C:C2	2.81	0.49
36:B1:14:U:H2'	36:B1:15:A:C8	2.48	0.49
36:B1:23:U:OP2	36:B1:24:A:N7	2.46	0.49
2:AA:2:G:H2'	2:AA:3:U:C6	2.47	0.49
37:BE:30:ARG:HG2	37:BE:31:TYR:HD1	1.78	0.49
2:AA:2246:G:C2'	2:AA:2247:A:C8	2.95	0.49
24:A0:104:ARG:O	24:A0:107:ASP:HB3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:A0:23:ASN:O	24:A0:26:LYS:HB2	2.13	0.48
24:A0:43:GLU:C	24:A0:45:ARG:N	2.62	0.48
2:AA:534:U:H5'	25:A1:46:GLU:HG2	1.95	0.48
25:A1:61:TRP:CZ3	25:A1:93:LYS:HB3	2.47	0.48
26:A2:11:GLN:CD	26:A2:21:ARG:HD3	2.33	0.48
26:A2:10:LYS:C	26:A2:12:TYR:N	2.64	0.48
26:A2:42:GLY:HA3	26:A2:54:TYR:CZ	2.48	0.48
28:A4:22:MET:O	28:A4:28:ARG:O	2.31	0.48
29:A5:46:CYS:HB3	29:A5:48:ASN:ND2	2.27	0.48
2:AA:243:U:P	32:A8:5:LYS:HZ3	2.35	0.48
2:AA:242:G:C3'	32:A8:5:LYS:NZ	2.74	0.48
2:AA:1022:G:H1'	2:AA:1023:U:H5	1.77	0.48
2:AA:1071:G:C3'	2:AA:1072:C:H5'	2.43	0.48
2:AA:1140:C:O2'	2:AA:1141:U:P	2.70	0.48
2:AA:1181:C:N1	2:AA:1182:A:C8	2.81	0.48
2:AA:1201:C:C2'	2:AA:1202:C:O5'	2.61	0.48
2:AA:135:G:H2'	2:AA:135:G:N3	2.27	0.48
2:AA:1406:U:H2'	2:AA:1407:C:O5'	2.13	0.48
2:AA:1427:A:O2'	2:AA:1428:C:P	2.71	0.48
2:AA:1693:U:O2	2:AA:1693:U:C2'	2.60	0.48
2:AA:1695:G:C2	2:AA:1696:G:N9	2.81	0.48
2:AA:1790:C:OP1	4:AD:224:VAL:HA	2.13	0.48
2:AA:1819:A:C1'	2:AA:1821:A:N7	2.76	0.48
2:AA:1853:A:H2	2:AA:2087:G:N3	2.11	0.48
2:AA:1860:G:H2'	2:AA:1861:G:C8	2.48	0.48
2:AA:1982:C:O5'	2:AA:1982:C:H6	1.96	0.48
2:AA:1995:U:O3'	13:AN:31:ARG:NH1	2.44	0.48
2:AA:1649:G:C6	2:AA:2009:G:C6	3.01	0.48
2:AA:202:U:C2'	2:AA:203:C:O4'	2.60	0.48
2:AA:2033:A:C2'	2:AA:2034:U:O5'	2.61	0.48
2:AA:2053:G:N3	2:AA:2054:A:C8	2.80	0.48
2:AA:2152:G:C4	2:AA:2153:G:C8	3.01	0.48
2:AA:2089:U:O2	2:AA:2231:C:N3	2.46	0.48
2:AA:2292:C:H2'	2:AA:2293:C:C6	2.48	0.48
2:AA:2292:C:H2'	2:AA:2293:C:H6	1.78	0.48
2:AA:957:A:C2	2:AA:2459:A:O4'	2.66	0.48
2:AA:2462:U:H2'	2:AA:2463:C:C5'	2.43	0.48
2:AA:2474:C:H2'	2:AA:2475:C:H5'	1.94	0.48
2:AA:2513:G:C6	2:AA:2514:U:N3	2.81	0.48
2:AA:253:C:H2'	2:AA:254:G:O5'	2.13	0.48
2:AA:2585:U:O4'	2:AA:2585:U:OP1	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:270(Z):U:HO2'	2:AA:271(A):C:P	2.34	0.48
2:AA:2689:U:O2	2:AA:2713:A:OP2	2.31	0.48
2:AA:2726:U:H5'	2:AA:2727:G:OP2	2.14	0.48
2:AA:270(X):G:H4'	2:AA:273:G:P	2.52	0.48
2:AA:2768:C:C4	2:AA:2769:C:C5	3.01	0.48
2:AA:27:G:H2'	2:AA:28:A:OP2	2.13	0.48
2:AA:322:A:N3	2:AA:341:G:N9	2.61	0.48
2:AA:443:A:N7	6:AF:43:LYS:HD3	2.28	0.48
2:AA:444:C:O2'	2:AA:445:C:C5'	2.50	0.48
2:AA:479:A:O2'	2:AA:480:A:H5'	2.13	0.48
2:AA:544:C:C2	2:AA:549:G:N1	2.77	0.48
2:AA:707:G:N1	2:AA:724:U:N3	2.53	0.48
2:AA:59:U:C6	2:AA:73:A:C6	3.00	0.48
2:AA:740:U:C2'	2:AA:741:G:O5'	2.61	0.48
2:AA:756:C:C4	2:AA:757:U:C5	3.01	0.48
2:AA:776:G:C6	2:AA:793:A:N7	2.81	0.48
2:AA:85:G:N2	2:AA:97:C:N3	2.51	0.48
1:AB:62:C:H2'	1:AB:63:G:H8	1.78	0.48
1:AB:79:C:O2'	1:AB:80:U:H5'	2.13	0.48
3:AC:148:ASN:ND2	3:AC:151:GLU:CB	2.76	0.48
3:AC:79:LYS:CD	3:AC:119:VAL:HG12	2.43	0.48
5:AE:41:PHE:CZ	5:AE:173:ARG:CD	2.96	0.48
5:AE:45:LYS:NZ	5:AE:301:PRO:O	2.40	0.48
6:AF:149:LYS:HB2	6:AF:152:GLU:CG	2.36	0.48
6:AF:149:LYS:N	6:AF:152:GLU:OE2	2.46	0.48
6:AF:218:VAL:C	6:AF:219:ASN:CG	2.72	0.48
6:AF:54:LEU:O	6:AF:79:ARG:CD	2.61	0.48
8:AH:93:TYR:CG	8:AH:159:LYS:HE2	2.48	0.48
10:AK:40:THR:C	10:AK:42:ALA:N	2.64	0.48
13:AN:58:VAL:CG1	13:AN:59:LYS:H	2.19	0.48
13:AN:7:ARG:C	13:AN:8:LEU:CD2	2.77	0.48
15:AP:123:ILE:C	15:AP:136:TRP:NE1	2.67	0.48
15:AP:123:ILE:HG22	15:AP:125:TRP:N	2.28	0.48
15:AP:35:ASN:CG	21:AV:113:VAL:CB	2.75	0.48
15:AP:36:ASN:ND2	15:AP:41:THR:N	2.59	0.48
15:AP:49:VAL:CG2	15:AP:120:HIS:CA	2.90	0.48
18:AS:65:LEU:O	18:AS:66:GLU:C	2.51	0.48
18:AS:83:LYS:O	18:AS:84:ARG:CZ	2.61	0.48
19:AT:42:GLU:CB	19:AT:49:VAL:HG23	2.42	0.48
20:AU:78:THR:O	20:AU:89:ARG:CZ	2.61	0.48
21:AV:175:ARG:HA	21:AV:175:ARG:CZ	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:969:U:H4'	23:AX:14:GLY:HA2	1.94	0.48
36:B1:70:U:O4	38:BF:131:ARG:NH2	2.45	0.48
34:BA:1025:U:H4'	34:BA:1025:U:OP1	2.12	0.48
34:BA:1130:A:N6	34:BA:1144:G:N3	2.57	0.48
34:BA:1194:U:C2'	34:BA:1195:C:O5'	2.60	0.48
34:BA:124:G:C5	34:BA:125:U:C4	3.00	0.48
34:BA:1261:A:N6	34:BA:1274:G:C1'	2.70	0.48
34:BA:1268:A:C2'	34:BA:1269:A:O5'	2.61	0.48
34:BA:1327:C:H5''	56:BX:20:LYS:CE	2.35	0.48
34:BA:1407:C:HO2'	34:BA:1408:A:H5'	1.77	0.48
34:BA:1418:A:C6	34:BA:1483:A:C5	3.00	0.48
34:BA:1449:C:H2'	34:BA:1450:U:H5'	1.95	0.48
34:BA:188:C:O2'	34:BA:189:G:H5'	2.13	0.48
34:BA:257:G:C2'	34:BA:258:G:O5'	2.61	0.48
34:BA:460:A:N7	34:BA:462:G:C5	2.81	0.48
34:BA:553:A:C2'	34:BA:554:C:O4'	2.61	0.48
34:BA:752:G:C2'	34:BA:753:A:OP2	2.61	0.48
34:BA:775:G:C2'	34:BA:776:G:O5'	2.61	0.48
34:BA:714:G:C1'	34:BA:777:A:N7	2.72	0.48
34:BA:778:G:C2	34:BA:779:C:C6	3.01	0.48
34:BA:819:A:N1	34:BA:1529:G:C5	2.81	0.48
34:BA:854:G:N1	34:BA:855:G:C5	2.81	0.48
34:BA:943:U:C2	34:BA:944:G:C8	3.01	0.48
35:BB:67:A:C6	35:BB:68:U:C4	3.01	0.48
35:BC:21:A:N7	35:BC:46:G:N1	2.61	0.48
37:BE:115:LEU:CD2	37:BE:149:LEU:HB3	2.41	0.48
38:BF:156:ARG:H	38:BF:163:ALA:HB1	1.78	0.48
38:BF:16:ARG:O	38:BF:17:ASP:CG	2.51	0.48
38:BF:94:LEU:C	38:BF:95:THR:CG2	2.81	0.48
39:BG:50:ARG:NH1	39:BG:52:SER:HA	2.28	0.48
41:BI:16:GLN:O	41:BI:18:GLN:N	2.46	0.48
41:BI:70:ASP:CG	41:BI:71:ARG:HG2	2.33	0.48
41:BI:75:LEU:O	41:BI:79:LEU:CG	2.55	0.48
42:BJ:138:LYS:CE	42:BJ:142:GLU:OE1	2.50	0.48
43:BK:64:LYS:C	43:BK:65:TYR:CG	2.87	0.48
43:BK:4:ASP:CB	43:BK:6:ILE:CG2	2.91	0.48
43:BK:93:VAL:HG12	43:BK:95:VAL:HG13	1.95	0.48
46:BN:18:ARG:HD3	46:BN:18:ARG:N	2.27	0.48
34:BA:692:U:O4	46:BN:52:GLY:C	2.51	0.48
48:BP:29:ARG:CD	48:BP:64:TRP:NE1	2.76	0.48
50:BR:3:ILE:CG2	50:BR:34:LEU:HD11	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BW:73:HIS:O	55:BW:76:ALA:CB	2.58	0.48
10:AK:94:THR:HG22	10:AK:97:GLN:CD	2.32	0.48
35:BB:1:G:N1	35:BB:73:A:C5	2.81	0.48
45:BM:22:LYS:NZ	45:BM:90:LEU:HD12	2.27	0.48
9:AI:12:LYS:HD2	9:AJ:82:GLY:CA	2.35	0.48
48:BP:72:ALA:O	48:BP:75:ALA:HB3	2.12	0.48
24:A0:20:LEU:HD22	24:A0:24:GLN:CG	2.39	0.48
24:A0:90:ARG:HB2	24:A0:94:TYR:HE2	1.72	0.48
25:A1:21:ALA:CA	25:A1:24:PHE:CE2	2.94	0.48
25:A1:35:ALA:O	25:A1:36:PHE:C	2.51	0.48
2:AA:531:C:N4	25:A1:38:THR:HA	2.25	0.48
25:A1:8:ILE:N	25:A1:11:ARG:HH11	2.11	0.48
26:A2:43:GLU:O	26:A2:44:GLN:CD	2.51	0.48
27:A3:26:PHE:N	27:A3:60:PHE:CE1	2.82	0.48
2:AA:397:G:P	28:A4:10:VAL:CG1	3.01	0.48
28:A4:38:GLY:O	28:A4:39:VAL:CG2	2.52	0.48
2:AA:109:G:H21	2:AA:110:G:H1'	1.71	0.48
2:AA:1180:C:N3	2:AA:1181:C:C4	2.81	0.48
2:AA:1203:G:C4	2:AA:1206:G:C8	3.01	0.48
2:AA:120:U:H1'	2:AA:150:C:C6	2.48	0.48
2:AA:1272:A:C2'	2:AA:1273:U:OP1	2.60	0.48
2:AA:1324:G:H4'	2:AA:1616:A:N6	2.28	0.48
2:AA:1364:G:H22	2:AA:1367:A:P	2.35	0.48
2:AA:1442:G:H2'	2:AA:1443:G:H8	1.77	0.48
2:AA:1462:C:C5'	2:AA:1463:C:OP2	2.61	0.48
2:AA:1491:G:H22	2:AA:1497:U:P	2.36	0.48
2:AA:1523:U:H2'	2:AA:1524:G:C5'	2.43	0.48
2:AA:1410:G:N1	2:AA:1593:G:C6	2.81	0.48
2:AA:14:A:C2'	2:AA:15:G:O5'	2.61	0.48
2:AA:1652:A:N7	2:AA:1653:G:C2	2.81	0.48
2:AA:1726:G:N1	2:AA:1734:C:C2	2.80	0.48
2:AA:1754:C:N4	2:AA:1755:A:C6	2.81	0.48
2:AA:1769:G:O2'	2:AA:1770:G:H5'	2.12	0.48
2:AA:1815:A:N3	2:AA:1817:G:C6	2.81	0.48
2:AA:1858:G:O2'	2:AA:1859:A:C5'	2.61	0.48
2:AA:2004:G:C5	2:AA:2005:A:C4	3.01	0.48
2:AA:2042:A:H62	12:AM:90:LYS:HZ3	1.60	0.48
2:AA:2070:G:H2'	2:AA:2071:A:C8	2.48	0.48
2:AA:2082:A:C2	2:AA:2083:G:N9	2.81	0.48
2:AA:2218:G:H4'	4:AD:184:LEU:HD13	1.95	0.48
2:AA:2294:C:N3	2:AA:2295:C:C6	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2309:A:H2'	2:AA:2309:A:N3	2.28	0.48
2:AA:2334:G:H1'	16:AQ:21:HIS:CE1	2.47	0.48
2:AA:2396:G:N2	2:AA:2397:G:C5	2.81	0.48
2:AA:197:A:C6	2:AA:2430:A:C8	3.01	0.48
2:AA:2549:G:N1	2:AA:2560:C:C5	2.81	0.48
2:AA:2573:C:OP1	2:AA:2575:C:P	2.70	0.48
2:AA:2606:C:C3'	2:AA:2606:C:C6	2.96	0.48
2:AA:2620:C:HO2'	2:AA:2621:A:P	2.36	0.48
2:AA:2652:C:H2'	2:AA:2653:U:O4'	2.13	0.48
2:AA:2779:U:O5'	2:AA:2779:U:H6	1.96	0.48
2:AA:2868:A:C4	2:AA:2869:G:C8	3.01	0.48
2:AA:337:C:H5''	2:AA:338:G:OP2	2.13	0.48
2:AA:448:U:N3	2:AA:583:G:H1'	2.28	0.48
2:AA:530:G:N2	2:AA:2021:C:O4'	2.46	0.48
2:AA:666:G:HO2'	2:AA:667:U:C5'	2.26	0.48
2:AA:696:G:C5	2:AA:697:C:C5	3.01	0.48
2:AA:908:C:O2	2:AA:908:C:C2'	2.60	0.48
2:AA:910:A:H2	2:AA:2264:C:O2	1.93	0.48
1:AB:81:G:C4	1:AB:82:G:C8	3.01	0.48
4:AD:131:LEU:CD1	4:AD:171:VAL:CG2	2.87	0.48
4:AD:94:ASN:HA	4:AD:100:LYS:HG2	1.94	0.48
5:AE:271:ILE:CG2	5:AE:272:GLY:H	2.26	0.48
5:AE:269:ILE:CG2	5:AE:297:LYS:HZ2	2.25	0.48
2:AA:2734:A:N6	5:AE:316:ARG:CZ	2.76	0.48
5:AE:72:VAL:CG1	5:AE:295:LEU:CD2	2.90	0.48
5:AE:97:THR:C	5:AE:98:GLU:HG3	2.34	0.48
7:AG:139:TYR:HE1	7:AG:156:ARG:HA	1.76	0.48
7:AG:38:GLU:HG2	7:AG:41:LEU:CD1	2.43	0.48
8:AH:163:TYR:O	8:AH:164:GLU:C	2.51	0.48
8:AH:40:MET:HG2	8:AH:64:HIS:CE1	2.48	0.48
9:AI:62:VAL:HG22	9:AI:101:VAL:CG2	2.41	0.48
9:AJ:58:GLU:O	9:AJ:128:LYS:NZ	2.46	0.48
9:AI:23:LYS:CG	9:AJ:46:GLY:HA3	2.33	0.48
9:AI:1:MET:CB	11:AL:10:LYS:HZ1	2.24	0.48
11:AL:112:LYS:HG2	11:AL:116:LEU:HB2	1.94	0.48
11:AL:45:GLU:O	11:AL:47:ALA:N	2.46	0.48
12:AM:77:GLY:HA2	12:AM:80:LYS:HG2	1.95	0.48
15:AP:82:LYS:HZ2	15:AP:84:ARG:NH2	2.11	0.48
1:AB:49:C:P	16:AQ:110:THR:OG1	2.72	0.48
16:AQ:97:VAL:O	16:AQ:98:GLU:CB	2.61	0.48
18:AS:17:VAL:CG1	18:AS:76:VAL:HG21	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AT:34:LYS:O	19:AT:38:ALA:HB3	2.13	0.48
20:AU:77:VAL:CG2	20:AU:91:LEU:HD13	2.44	0.48
21:AV:103:ARG:NH1	21:AV:139:THR:H	2.11	0.48
21:AV:98:VAL:CB	21:AV:121:GLN:HE22	2.26	0.48
22:AW:20:LEU:O	22:AW:23:LEU:HB2	2.12	0.48
23:AX:31:LEU:CD2	23:AX:32:GLN:N	2.43	0.48
23:AX:50:VAL:O	23:AX:51:ALA:C	2.52	0.48
34:BA:1041:A:C6	34:BA:1042:G:N7	2.81	0.48
34:BA:1298:C:H5''	34:BA:1299:A:OP1	2.12	0.48
34:BA:1324:A:C4'	34:BA:361(A):C:H4'	2.43	0.48
34:BA:1330:U:H5''	34:BA:1331:G:OP2	2.13	0.48
34:BA:1401:G:C2'	34:BA:1402:C:H5'	2.42	0.48
34:BA:1470:G:H2'	34:BA:1471:G:O5'	2.13	0.48
34:BA:815:A:H1'	34:BA:1529:G:C6	2.48	0.48
34:BA:202:U:H4'	34:BA:203:U:OP1	2.13	0.48
34:BA:184:G:H4'	34:BA:224:C:O3'	2.13	0.48
34:BA:242:C:N3	34:BA:285:G:N2	2.60	0.48
34:BA:109:A:N7	34:BA:326:G:N3	2.61	0.48
34:BA:3(A):G:O5'	34:BA:3(A):G:C8	2.60	0.48
34:BA:401:C:H2'	34:BA:402:G:H8	1.78	0.48
34:BA:432:A:N7	34:BA:433:C:C6	2.81	0.48
34:BA:44:G:C6	34:BA:45:U:C2	3.01	0.48
34:BA:459:G:H3'	34:BA:460:A:C5'	2.43	0.48
34:BA:506:G:C6	34:BA:507:C:C4	3.01	0.48
34:BA:538:G:OP2	47:BO:115:LYS:HG3	2.12	0.48
34:BA:511:C:N4	34:BA:541:G:N2	2.61	0.48
34:BA:549:C:C2'	34:BA:550:G:O5'	2.60	0.48
34:BA:656:C:H2'	34:BA:657:G:O4'	2.12	0.48
34:BA:741:G:C4	34:BA:742:G:C8	3.01	0.48
34:BA:761:G:H1'	52:BT:104:LYS:O	2.13	0.48
34:BA:768:A:C8	34:BA:768:A:H3'	2.48	0.48
34:BA:828:A:C2'	34:BA:829:G:O5'	2.60	0.48
34:BA:889:A:C4'	34:BA:890:G:H4'	2.31	0.48
34:BA:973:G:O5'	34:BA:974:A:H5''	2.13	0.48
34:BA:98:U:C2'	34:BA:99:C:O5'	2.61	0.48
35:BB:19:G:C1'	35:BB:57:G:N2	2.74	0.48
35:BB:53:G:C2	35:BB:54:U:C2	3.00	0.48
35:BC:72:C:N4	35:BC:73:A:N6	2.61	0.48
35:BC:8:U:H1'	35:BC:48:C:O2'	2.12	0.48
37:BE:108:ILE:O	37:BE:112:VAL:CG2	2.48	0.48
37:BE:164:VAL:HG22	37:BE:165:VAL:N	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:102:LEU:CD2	37:BE:173:ALA:HB1	2.37	0.48
37:BE:41:ILE:O	37:BE:42:ILE:O	2.30	0.48
34:BA:1206:G:C4'	38:BF:194:GLY:N	2.77	0.48
38:BF:91:LEU:HD23	38:BF:91:LEU:C	2.32	0.48
38:BF:98:ASN:C	38:BF:99:VAL:CG1	2.81	0.48
39:BG:198:VAL:O	39:BG:199:ASN:CB	2.60	0.48
34:BA:1081:G:OP1	40:BH:17:ALA:O	2.31	0.48
40:BH:52:PRO:O	40:BH:55:VAL:N	2.47	0.48
41:BI:62:TRP:CE3	41:BI:62:TRP:O	2.66	0.48
43:BK:28:ALA:HB2	43:BK:58:TYR:CA	2.43	0.48
34:BA:877:C:O2'	43:BK:89:PRO:HG2	2.12	0.48
44:BL:103:THR:HG22	44:BL:105:ASP:H	1.78	0.48
44:BL:75:ASP:O	44:BL:76:ALA:C	2.51	0.48
45:BM:34:VAL:CG1	45:BM:36:GLY:H	2.12	0.48
45:BM:3:LYS:HG2	45:BM:75:ILE:HG12	1.95	0.48
47:BO:84:LEU:O	47:BO:101:VAL:HG23	2.12	0.48
34:BA:1329:A:C5'	48:BP:29:ARG:HG3	2.35	0.48
50:BR:53:HIS:HD2	50:BR:56:LEU:HD23	1.77	0.48
51:BS:9:PHE:HD2	51:BS:9:PHE:N	2.10	0.48
53:BU:39:VAL:O	53:BU:42:ARG:CB	2.60	0.48
53:BU:80:PRO:O	53:BU:82:THR:O	2.31	0.48
54:BV:19:VAL:HG23	54:BV:47:HIS:HE2	1.78	0.48
34:BA:192:U:O4'	55:BW:103:GLY:N	2.46	0.48
55:BW:21:LYS:O	55:BW:24:LEU:HB2	2.13	0.48
10:AK:111:ASP:OD2	10:AK:112:LYS:CD	2.61	0.48
10:AK:77:VAL:C	10:AK:144:HIS:CE1	2.86	0.48
36:B1:26:C:N4	36:B1:27:G:O6	2.46	0.48
24:A0:20:LEU:C	24:A0:22:ARG:N	2.64	0.48
24:A0:77:ARG:NH1	24:A0:77:ARG:CB	2.65	0.48
2:AA:2881:C:H5''	24:A0:90:ARG:HH12	1.78	0.48
25:A1:61:TRP:CZ3	25:A1:93:LYS:C	2.87	0.48
26:A2:59:GLU:OE1	26:A2:98:ILE:C	2.51	0.48
27:A3:43:THR:HG21	27:A3:74:LYS:C	2.33	0.48
28:A4:11:PRO:HA	28:A4:40:HIS:NE2	2.27	0.48
28:A4:41:PRO:HB2	28:A4:57:ASP:HB3	1.93	0.48
28:A4:60:ASN:O	28:A4:63:PHE:CB	2.61	0.48
2:AA:1000:A:N7	2:AA:1001:A:C5	2.81	0.48
2:AA:1071:G:C2'	2:AA:1072:C:C5'	2.91	0.48
2:AA:1071:G:C5	2:AA:1089:G:C2	3.01	0.48
2:AA:1083:U:C3'	9:AI:37:VAL:N	2.74	0.48
2:AA:1151:G:H2'	2:AA:1152:C:C6	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1221:C:N3	2:AA:1229:G:C2	2.81	0.48
2:AA:511:U:H5''	2:AA:1235:G:H4'	1.95	0.48
2:AA:123:G:H2'	2:AA:124:G:O4'	2.11	0.48
2:AA:137(A):G:H3'	2:AA:138:G:N2	2.29	0.48
2:AA:1475:G:N2	2:AA:1477:A:N7	2.60	0.48
2:AA:1496:A:N3	2:AA:1496:A:H2'	2.26	0.48
2:AA:1348:G:C2	2:AA:1599:C:C2	3.00	0.48
2:AA:1605:C:H4'	2:AA:1610:A:N6	2.28	0.48
2:AA:1666:G:H4'	13:AN:67:ARG:NH2	2.28	0.48
2:AA:178:G:O5'	2:AA:178:G:H8	1.95	0.48
2:AA:1792:G:H3'	2:AA:1792:G:C8	2.48	0.48
2:AA:1954:G:HO2'	2:AA:1955:U:C5'	2.23	0.48
2:AA:1969:A:H5''	2:AA:1970:A:OP1	2.12	0.48
2:AA:2014:A:C5	2:AA:2015:A:C6	3.02	0.48
2:AA:209:C:HO2'	2:AA:210:C:H5'	1.74	0.48
2:AA:2141:G:H2'	2:AA:2142:C:H6	1.77	0.48
2:AA:2141:G:N2	2:AA:2151:G:C4	2.82	0.48
2:AA:2152:G:C5	2:AA:2153:G:N7	2.81	0.48
2:AA:918:A:C2	2:AA:2268:A:N7	2.82	0.48
2:AA:2319:G:H4'	16:AQ:9:PRO:CD	2.43	0.48
2:AA:2423:U:H1'	2:AA:2425:A:C4	2.48	0.48
2:AA:2493:U:C2	2:AA:2494:G:C8	3.02	0.48
2:AA:2504:U:O2'	2:AA:2505:G:H5'	2.12	0.48
2:AA:2531:A:O2'	2:AA:2532:G:H5'	2.14	0.48
2:AA:2635:C:C4	2:AA:2783:G:N1	2.79	0.48
2:AA:2784:C:C2	5:AE:98:GLU:OE1	2.66	0.48
2:AA:2887:U:H2'	2:AA:2888:C:O5'	2.14	0.48
2:AA:288:C:N4	2:AA:289:A:O2'	2.46	0.48
2:AA:311:A:H5''	2:AA:312:G:N7	2.29	0.48
2:AA:299:A:C5	2:AA:322:A:N6	2.81	0.48
2:AA:331:A:N7	2:AA:1209:G:N2	2.61	0.48
2:AA:403:U:H5''	2:AA:404:C:OP1	2.13	0.48
2:AA:425:G:C2	2:AA:426:C:C6	3.01	0.48
2:AA:67:U:O2	2:AA:88:G:O6	2.30	0.48
2:AA:783:A:P	4:AD:230:ASN:ND2	2.86	0.48
2:AA:785:G:C2	2:AA:786:C:C6	3.01	0.48
2:AA:791:C:C2'	2:AA:792:G:C5'	2.90	0.48
2:AA:814:C:H4'	2:AA:1224:G:C2	2.48	0.48
2:AA:863:A:N3	2:AA:864:G:C8	2.81	0.48
2:AA:89:G:C2	2:AA:90:U:O4	2.67	0.48
1:AB:27:C:N4	1:AB:28:C:N4	2.62	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:84:C:C2	1:AB:85:G:C8	3.02	0.48
3:AC:156:ILE:O	3:AC:157:LYS:CB	2.59	0.48
3:AC:84:LYS:HA	3:AC:87:GLU:OE1	2.13	0.48
4:AD:95:TYR:O	4:AD:96:ALA:O	2.31	0.48
2:AA:1501:C:O4'	4:AD:98:GLY:CA	2.61	0.48
5:AE:221:LYS:CE	5:AE:233:ARG:HA	2.44	0.48
2:AA:2822:G:C5'	5:AE:258:TYR:CZ	2.96	0.48
5:AE:304:ASP:O	5:AE:307:LEU:HB2	2.13	0.48
6:AF:51:TYR:C	6:AF:55:ARG:HB3	2.32	0.48
7:AG:24:HIS:N	7:AG:24:HIS:ND1	2.61	0.48
8:AH:58:LYS:HG3	8:AH:59:HIS:ND1	2.28	0.48
9:AI:59:PHE:C	9:AI:128:LYS:HE3	2.34	0.48
9:AI:42:ALA:O	9:AI:43:PRO:C	2.49	0.48
11:AL:132:ALA:CB	11:AL:137:ILE:HB	2.43	0.48
2:AA:558:G:P	12:AM:92:GLN:HB3	2.54	0.48
13:AN:3:GLN:HA	13:AN:21:VAL:CG1	2.23	0.48
13:AN:17:ARG:HB2	13:AN:45:ASP:O	2.13	0.48
15:AP:148:ASN:HD22	15:AP:149:ILE:H	1.61	0.48
16:AQ:38:LYS:HZ2	16:AQ:114:LYS:HB2	1.77	0.48
16:AQ:59:ALA:CB	16:AQ:91:ARG:HH12	2.26	0.48
21:AV:154:LEU:CD1	21:AV:160:LEU:CD1	2.90	0.48
2:AA:932:G:C5'	23:AX:24:LYS:NZ	2.74	0.48
34:BA:1536:C:N3	36:B1:53:G:N2	2.62	0.48
34:BA:105:G:C6	34:BA:106:C:N4	2.81	0.48
34:BA:1091:U:O2	34:BA:1093:A:C8	2.66	0.48
34:BA:1167:A:OP1	34:BA:1167:A:C8	2.65	0.48
34:BA:982:U:H3	34:BA:1223:C:N4	2.11	0.48
34:BA:1384:C:N3	34:BA:1385:G:C5	2.81	0.48
34:BA:144:G:N1	34:BA:178:C:N4	1.97	0.48
34:BA:1494:G:N1	34:BA:1495:U:H5	2.11	0.48
34:BA:332:G:H2'	34:BA:333:G:C8	2.47	0.48
34:BA:421:U:N3	38:BF:127:ARG:CZ	2.75	0.48
34:BA:452:A:O2'	34:BA:453:A:O5'	2.30	0.48
34:BA:505:G:C2	34:BA:535:A:C6	3.01	0.48
34:BA:632:A:C2'	34:BA:633:G:O5'	2.62	0.48
34:BA:66:G:H4'	34:BA:173:U:C4	2.49	0.48
34:BA:706:A:O4'	46:BN:29:ILE:CD1	2.62	0.48
34:BA:772:U:H2'	34:BA:773:G:O5'	2.11	0.48
34:BA:813:U:C5'	34:BA:814:A:OP2	2.59	0.48
34:BA:823:G:N1	34:BA:878:G:C6	2.81	0.48
34:BA:757:U:H1'	34:BA:879:C:HO2'	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:935:A:N1	42:BJ:3:ARG:NH1	2.61	0.48
34:BA:959:A:C3'	34:BA:960:U:C5'	2.89	0.48
35:BB:63:C:H2'	35:BB:64:A:C8	2.49	0.48
35:BC:72:C:C5	35:BC:73:A:N6	2.82	0.48
37:BE:97:TRP:HE1	37:BE:102:LEU:CD1	2.26	0.48
37:BE:77:ALA:HB2	37:BE:208:ILE:HG12	1.94	0.48
38:BF:98:ASN:O	38:BF:99:VAL:HG12	2.13	0.48
39:BG:3:ARG:NH1	39:BG:70:ILE:HD13	2.28	0.48
40:BH:147:ASP:CA	40:BH:150:ARG:HB2	2.36	0.48
40:BH:86:ALA:C	40:BH:125:SER:HB3	2.34	0.48
42:BJ:126:ASP:O	42:BJ:131:LYS:O	2.31	0.48
43:BK:87:SER:O	43:BK:88:LYS:C	2.51	0.48
34:BA:1117:G:P	44:BL:104:ARG:NH1	2.86	0.48
44:BL:38:GLN:C	44:BL:40:LEU:N	2.65	0.48
47:BO:26:ALA:HB2	47:BO:98:TYR:HE2	1.79	0.48
50:BR:29:VAL:CG1	50:BR:81:LEU:HD21	2.40	0.48
51:BS:75:ARG:HG2	51:BS:80:PHE:HB2	1.95	0.48
54:BV:39:THR:O	54:BV:40:ILE:C	2.51	0.48
54:BV:44:MET:HA	54:BV:47:HIS:HD2	1.69	0.48
55:BW:79:ARG:O	55:BW:80:ARG:C	2.48	0.48
56:BX:6:ARG:HH11	56:BX:15:ARG:NH2	2.02	0.48
37:BE:130:ARG:HE	37:BE:130:ARG:CA	2.23	0.48
36:B1:14:U:N3	36:B1:42:G:N1	2.35	0.48
2:AA:2367:G:H2'	2:AA:2368:C:H6	1.78	0.48
2:AA:1620:G:C2'	2:AA:1621:U:O5'	2.62	0.48
24:A0:37:THR:OG1	24:A0:40:LYS:HD2	2.13	0.48
24:A0:65:LEU:O	24:A0:68:ARG:N	2.47	0.48
2:AA:1009:A:O2'	25:A1:62:ILE:HG21	2.13	0.48
26:A2:38:LEU:CD2	26:A2:38:LEU:N	2.68	0.48
26:A2:69:ILE:HG22	26:A2:88:GLN:HB3	1.95	0.48
28:A4:5:LEU:HD11	28:A4:10:VAL:HG23	1.95	0.48
28:A4:23:GLU:C	28:A4:25:MET:H	2.16	0.48
28:A4:57:ASP:C	28:A4:61:LYS:HD2	2.34	0.48
2:AA:687:C:C5'	31:A7:4:THR:HG22	2.43	0.48
2:AA:1034:G:H5'	33:A9:18:ARG:CD	2.43	0.48
2:AA:1001:A:C8	2:AA:1002:G:C8	3.02	0.48
2:AA:1014:U:N3	2:AA:1015:G:C8	2.81	0.48
2:AA:1087:G:O6	2:AA:1102:C:N3	2.47	0.48
2:AA:1238:G:H2'	2:AA:1239:G:C4'	2.43	0.48
2:AA:1277:G:H2'	2:AA:1278:A:H8	1.78	0.48
2:AA:1279:G:H2'	2:AA:1280:G:H8	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:135:G:H1'	2:AA:145:G:C2	2.49	0.48
2:AA:1419:A:H3'	2:AA:1420:U:C2	2.48	0.48
2:AA:1465:G:N2	2:AA:1466:G:H1'	2.28	0.48
2:AA:1551:C:C2'	2:AA:1552:G:H8	2.24	0.48
2:AA:1570:A:N3	2:AA:1571:A:N7	2.60	0.48
2:AA:1698:A:O2'	2:AA:1699:G:C3'	2.47	0.48
2:AA:175:G:C6	2:AA:176:G:N7	2.81	0.48
2:AA:1806:C:C2	2:AA:1807:G:H8	2.31	0.48
2:AA:1856:G:C6	2:AA:1887:C:C4	3.01	0.48
2:AA:1268:A:OP1	2:AA:2006:C:OP1	2.31	0.48
2:AA:200:U:C5	2:AA:201:C:O2	2.66	0.48
2:AA:2012:G:HO2'	2:AA:2013:A:P	2.37	0.48
2:AA:2075:U:C4	2:AA:2238:G:C6	3.02	0.48
2:AA:2075:U:O2	2:AA:2075:U:H2'	2.13	0.48
2:AA:2075:U:O4	2:AA:2435:A:N1	2.46	0.48
2:AA:1889:A:C1'	2:AA:2087:G:O4'	2.62	0.48
2:AA:2128:C:N4	3:AC:134:ARG:HH21	2.11	0.48
2:AA:2142:C:N3	2:AA:2143:C:C4	2.82	0.48
2:AA:2101:G:N1	2:AA:2189:U:N3	2.61	0.48
2:AA:2316:C:H5'	7:AG:142:ALA:CB	2.40	0.48
2:AA:2293:C:N3	2:AA:2339:G:O6	2.47	0.48
2:AA:2378:A:C8	2:AA:2378:A:O5'	2.63	0.48
2:AA:243:U:P	32:A8:5:LYS:NZ	2.87	0.48
2:AA:2468:G:OP2	2:AA:2468:G:C8	2.66	0.48
2:AA:2513:G:H1	2:AA:2571:C:N4	2.11	0.48
2:AA:255:A:C2	2:AA:256:A:N9	2.81	0.48
2:AA:2595:G:C6	2:AA:2597:G:OP1	2.67	0.48
2:AA:2633:G:C2'	2:AA:2634:G:O5'	2.62	0.48
2:AA:263:C:C2	2:AA:264:C:C6	3.02	0.48
2:AA:2675:A:OP1	13:AN:30:ARG:HA	2.14	0.48
2:AA:2682:U:C2'	2:AA:2683:C:H5'	2.43	0.48
2:AA:270(I):G:C5	2:AA:270(J):G:C8	3.01	0.48
2:AA:2726:U:H3'	2:AA:2727:G:H8	1.77	0.48
2:AA:2812:G:H2'	2:AA:2813:A:C8	2.48	0.48
2:AA:2855:C:N3	2:AA:2862:G:N2	2.50	0.48
2:AA:2876:G:C2	2:AA:2877:G:N7	2.81	0.48
2:AA:2881:C:C5	2:AA:2882:A:N7	2.82	0.48
2:AA:350:U:C2'	2:AA:351:G:OP1	2.60	0.48
2:AA:452:G:H8	6:AF:55:ARG:HH22	1.61	0.48
2:AA:487:C:C4	2:AA:488:G:C5	3.02	0.48
2:AA:524:U:OP1	2:AA:540:G:N2	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:569:U:C4	2:AA:570:G:C6	3.02	0.48
2:AA:72:U:C5	2:AA:112:U:O2'	2.62	0.48
2:AA:734:A:HO2'	2:AA:735:A:C5'	2.25	0.48
2:AA:777:A:HO2'	2:AA:778:G:H5'	1.75	0.48
2:AA:784:A:N7	2:AA:792:G:C4	2.81	0.48
2:AA:819:A:H2'	2:AA:820:A:H8	1.79	0.48
2:AA:840:C:H42	2:AA:938:G:H1	1.59	0.48
2:AA:839:U:O2	2:AA:940:G:C2	2.66	0.48
2:AA:820:A:H1'	2:AA:943:U:C2	2.48	0.48
1:AB:101:A:C4	1:AB:102:G:C8	3.01	0.48
3:AC:133:PRO:CG	3:AC:134:ARG:HH11	2.26	0.48
3:AC:75:LEU:HD21	3:AC:99:ILE:CG2	2.42	0.48
5:AE:226:HIS:CG	5:AE:229:GLN:NE2	2.82	0.48
5:AE:241:TRP:C	5:AE:243:PRO:HD2	2.34	0.48
5:AE:44:TYR:CB	5:AE:74:GLU:OE1	2.61	0.48
6:AF:81:PRO:O	6:AF:82:GLN:CB	2.62	0.48
8:AH:15:THR:HG23	8:AH:26:LYS:H	1.78	0.48
2:AA:2748:A:O2'	8:AH:62:ALA:O	2.12	0.48
9:AJ:6:ILE:O	9:AJ:10:ILE:HG13	2.13	0.48
9:AJ:77:VAL:HG13	9:AJ:102:ILE:CD1	2.44	0.48
11:AL:123:ALA:O	11:AL:127:ILE:HG13	2.14	0.48
12:AM:104:TYR:O	12:AM:105:LEU:O	2.31	0.48
14:AO:69:ILE:O	14:AO:70:ASP:C	2.48	0.48
15:AP:59:ASN:O	15:AP:62:GLU:N	2.46	0.48
15:AP:67:ALA:O	15:AP:68:ALA:C	2.50	0.48
15:AP:82:LYS:HD2	15:AP:125:TRP:HB3	1.95	0.48
16:AQ:117:ALA:HA	16:AQ:120:GLU:OE1	2.13	0.48
16:AQ:90:LEU:O	16:AQ:91:ARG:C	2.51	0.48
18:AS:30:GLU:HG2	18:AS:31:GLU:N	2.24	0.48
18:AS:85:VAL:CA	18:AS:95:ILE:HG12	2.39	0.48
19:AT:23:LYS:CB	19:AT:67:ARG:HA	2.42	0.48
19:AT:23:LYS:C	19:AT:24:LEU:CG	2.82	0.48
20:AU:27:LEU:HD23	20:AU:98:VAL:CG1	2.44	0.48
20:AU:49:GLU:HB3	20:AU:97:ARG:CD	2.38	0.48
20:AU:91:LEU:N	20:AU:91:LEU:HD23	2.27	0.48
34:BA:1026:G:N1	34:BA:1036:G:C2	2.81	0.48
34:BA:1082:G:C6	34:BA:1083:U:C4	3.01	0.48
34:BA:1122:U:O4	34:BA:1123:A:N6	2.46	0.48
34:BA:1132:C:O2'	34:BA:1133:G:H5'	2.12	0.48
34:BA:1253:G:N2	34:BA:1254:C:C2	2.81	0.48
34:BA:1253:G:H21	34:BA:1254:C:H1'	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:126:G:H1	34:BA:235:C:H42	1.62	0.48
34:BA:1461:G:C2'	34:BA:1462:G:O5'	2.61	0.48
34:BA:1503:A:C4	36:B1:57:A:N1	2.82	0.48
34:BA:183:G:O2'	34:BA:224:C:H1'	2.13	0.48
34:BA:185:A:N6	34:BA:186:C:N4	2.61	0.48
34:BA:196:A:H1'	34:BA:222:U:H1'	1.95	0.48
34:BA:226:G:C2	34:BA:227:G:N9	2.82	0.48
34:BA:228:A:H2'	34:BA:229:U:C5'	2.43	0.48
34:BA:245:C:O2	34:BA:284:G:C5	2.66	0.48
34:BA:390:C:H2'	34:BA:391:G:O5'	2.13	0.48
34:BA:597:G:C5	34:BA:644:G:N1	2.81	0.48
34:BA:66:G:H5'	34:BA:173:U:O4	2.13	0.48
34:BA:712:A:C2	34:BA:713:G:C4	3.02	0.48
34:BA:73:C:N3	34:BA:74:C:C4	2.81	0.48
34:BA:762:C:N3	34:BA:763:G:C6	2.82	0.48
34:BA:91:C:O2'	34:BA:92:C:C5'	2.61	0.48
34:BA:938:A:C6	34:BA:939:G:C5	3.01	0.48
35:BB:66:A:C5'	35:BB:67:A:OP2	2.60	0.48
37:BE:15:VAL:HG11	37:BE:209:ARG:HG3	1.94	0.48
37:BE:164:VAL:O	37:BE:186:ALA:CB	2.58	0.48
38:BF:142:MET:CA	38:BF:146:ALA:HB3	2.33	0.48
38:BF:39:ILE:HG21	38:BF:57:ILE:HD13	1.95	0.48
38:BF:42:LEU:HD12	38:BF:94:LEU:CD1	2.38	0.48
39:BG:19:LEU:CD2	39:BG:21:LEU:HD11	2.40	0.48
39:BG:59:ARG:HA	39:BG:59:ARG:NE	2.18	0.48
40:BH:81:GLU:CA	40:BH:89:ILE:O	2.50	0.48
44:BL:5:TYR:CE2	44:BL:18:PHE:CE1	3.01	0.48
34:BA:707:C:C4'	46:BN:20:TYR:CD2	2.96	0.48
47:BO:72:GLY:O	47:BO:74:GLY:N	2.46	0.48
47:BO:53:ARG:NH1	47:BO:92:ASP:OD2	2.45	0.48
48:BP:19:LEU:O	48:BP:22:ILE:HG13	2.13	0.48
51:BS:4:ILE:CG1	51:BS:66:PRO:HA	2.43	0.48
52:BT:18:THR:HG23	52:BT:69:LYS:HZ2	1.77	0.48
34:BA:190(E):U:C2	52:BT:72:ARG:NH2	2.78	0.48
56:BX:3:LYS:HD3	56:BX:14:TRP:HD1	1.77	0.48
10:AK:116:GLU:CD	10:AK:130:PRO:O	2.52	0.48
36:B1:15:A:N6	36:B1:41:U:N3	2.61	0.48
40:BH:50:GLU:HB2	40:BH:53:LEU:HG	1.95	0.48
8:AH:170:LEU:CD1	8:AH:170:LEU:O	2.61	0.48
25:A1:21:ALA:CB	25:A1:24:PHE:HZ	2.18	0.48
25:A1:74:MET:HE3	25:A1:78:THR:OG1	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:A3:68:VAL:HG21	27:A3:72:LYS:HG3	1.96	0.48
28:A4:56:VAL:O	28:A4:61:LYS:CE	2.50	0.48
28:A4:59:PHE:O	28:A4:61:LYS:N	2.45	0.48
29:A5:40:LYS:HZ3	29:A5:46:CYS:CB	2.24	0.48
31:A7:20:ALA:O	31:A7:23:LYS:CB	2.60	0.48
32:A8:12:ARG:C	32:A8:13:ARG:O	2.52	0.48
32:A8:50:LEU:O	32:A8:52:LYS:N	2.47	0.48
2:AA:1009:A:C6	2:AA:1010:A:C6	3.01	0.48
2:AA:1029:A:H2'	2:AA:1030:G:O4'	2.13	0.48
2:AA:1063:G:C2	2:AA:1075:C:C4	3.02	0.48
2:AA:1131:G:N1	12:AM:69:TYR:CE1	2.81	0.48
2:AA:1131:G:N2	2:AA:1132:A:C5	2.81	0.48
2:AA:1247:A:O2'	2:AA:1248:G:P	2.71	0.48
2:AA:1252:G:N2	25:A1:37:GLN:HB2	2.28	0.48
2:AA:1264:G:C3'	2:AA:1265:A:C5'	2.78	0.48
2:AA:1266:G:C5	18:AS:16:LYS:HE3	2.48	0.48
2:AA:1414:G:C2'	2:AA:1415:U:C6	2.90	0.48
2:AA:1473:G:C2'	2:AA:1474:C:H6	2.24	0.48
2:AA:1604:C:O2	2:AA:1605:C:C6	2.66	0.48
2:AA:1626:G:N3	2:AA:1626:G:H2'	2.28	0.48
2:AA:1636:C:O2'	2:AA:1760:A:O2'	2.22	0.48
2:AA:1735:C:O2'	2:AA:1741:C:H6	1.96	0.48
2:AA:1773:A:C8	2:AA:1773:A:C3'	2.96	0.48
2:AA:203:C:OP2	2:AA:203:C:C5	2.67	0.48
2:AA:2056:G:N2	2:AA:2057:A:N9	2.61	0.48
2:AA:2121:G:OP2	2:AA:2121:G:H3'	2.12	0.48
2:AA:2207:C:C2	2:AA:2208:U:C6	3.01	0.48
2:AA:2210:G:N7	4:AD:148:GLY:O	2.47	0.48
2:AA:2283:C:N3	2:AA:2325:G:N2	2.56	0.48
2:AA:2309:A:C4'	2:AA:2309:A:OP2	2.60	0.48
2:AA:826:U:C5'	2:AA:2429:G:P	2.97	0.48
2:AA:2462:U:N3	2:AA:2463:C:C4	2.82	0.48
2:AA:2462:U:O2'	2:AA:2463:C:H5'	2.14	0.48
2:AA:2493:U:O2	2:AA:2494:G:O4'	2.32	0.48
2:AA:2495:G:O3'	15:AP:101:MET:CE	2.61	0.48
2:AA:253:C:O2'	2:AA:254:G:H5'	2.13	0.48
2:AA:2595:G:N2	2:AA:2597:G:C5'	2.76	0.48
2:AA:2634:G:C2'	2:AA:2635:C:O5'	2.61	0.48
2:AA:2661:G:O5'	2:AA:2661:G:H8	1.96	0.48
2:AA:26:G:N1	2:AA:27:G:C2	2.79	0.48
2:AA:2735:G:H1	2:AA:2769:C:H42	1.62	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2756:U:HO2'	2:AA:2757:A:C5'	2.25	0.48
2:AA:2854:G:C6	2:AA:2855:C:C4	3.01	0.48
2:AA:290:G:C6	2:AA:350:U:C4	3.01	0.48
2:AA:350:U:C6	2:AA:350:U:OP2	2.66	0.48
2:AA:447:A:O2'	2:AA:448:U:H5'	2.13	0.48
2:AA:46:C:N3	2:AA:179:G:O6	2.45	0.48
2:AA:483:A:C2	2:AA:484:C:H1'	2.48	0.48
2:AA:48:G:O5'	2:AA:48:G:C8	2.61	0.48
2:AA:751:A:C2	2:AA:789:A:C6	3.01	0.48
2:AA:818:G:O4'	2:AA:839:U:OP1	2.32	0.48
2:AA:820:A:H2	2:AA:944:G:OP1	1.97	0.48
2:AA:824:A:N1	2:AA:834:C:C2	2.81	0.48
2:AA:88:G:N3	2:AA:88:G:C2'	2.76	0.48
1:AB:71:C:O2	1:AB:72:G:H1'	2.14	0.48
3:AC:104:LEU:HD22	3:AC:126:LYS:HZ1	1.78	0.48
3:AC:103:ILE:CD1	3:AC:110:PHE:HE2	2.25	0.48
3:AC:82:LYS:NZ	3:AC:147:PHE:O	2.47	0.48
3:AC:86:ALA:O	3:AC:87:GLU:O	2.30	0.48
4:AD:71:ASP:CG	4:AD:119:PRO:HD2	2.34	0.48
5:AE:180:ILE:CG2	5:AE:186:GLU:O	2.62	0.48
5:AE:267:ARG:CD	5:AE:297:LYS:HD2	2.43	0.48
5:AE:268:LEU:HD21	5:AE:270:ASP:O	2.13	0.48
6:AF:236:THR:O	6:AF:239:ALA:N	2.46	0.48
6:AF:32:GLY:O	6:AF:33:LYS:C	2.51	0.48
7:AG:142:ALA:HB2	7:AG:151:ILE:HG12	1.95	0.48
7:AG:37:ALA:O	7:AG:40:ILE:HB	2.14	0.48
8:AH:121:GLU:CG	8:AH:133:LYS:O	2.58	0.48
8:AH:17:THR:CG2	8:AH:19:ASN:OD1	2.61	0.48
9:AJ:102:ILE:HD13	9:AJ:118:LEU:CD1	2.43	0.48
10:AK:7:LYS:CE	10:AK:12:LYS:HZ3	2.07	0.48
10:AK:25:TYR:HB3	10:AK:29:PHE:CZ	2.48	0.48
11:AL:105:ILE:HD13	11:AL:139:VAL:HG12	1.94	0.48
12:AM:6:PHE:CE1	12:AM:109:TYR:CZ	3.01	0.48
12:AM:74:ARG:HH11	12:AM:74:ARG:HG2	1.78	0.48
13:AN:1:MET:CB	13:AN:67:ARG:HD2	2.42	0.48
14:AO:66:VAL:N	14:AO:108:VAL:HG13	2.28	0.48
15:AP:52:LYS:O	15:AP:117:GLY:HA2	2.13	0.48
15:AP:148:ASN:HD22	15:AP:149:ILE:N	2.11	0.48
15:AP:22:GLY:O	15:AP:23:ILE:CG1	2.61	0.48
16:AQ:110:THR:C	16:AQ:114:LYS:N	2.67	0.48
18:AS:5:ALA:CB	18:AS:50:VAL:HG12	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AU:30:ASP:OD2	20:AU:31:LEU:CD2	2.62	0.48
20:AU:48:VAL:HG22	20:AU:98:VAL:HG22	1.96	0.48
20:AU:71:VAL:HG22	20:AU:93:THR:N	2.17	0.48
20:AU:72:ILE:CG2	20:AU:73:HIS:H	2.26	0.48
21:AV:116:VAL:O	21:AV:118:HIS:N	2.46	0.48
21:AV:20:ALA:HB1	21:AV:32:PHE:CD2	2.49	0.48
34:BA:115:G:H1'	34:BA:116:A:N7	2.28	0.48
34:BA:1256:A:H8	38:BF:27:LYS:NZ	2.09	0.48
34:BA:937:A:H2	34:BA:1377:A:H1'	1.78	0.48
34:BA:1384:C:H2'	34:BA:1385:G:C8	2.48	0.48
34:BA:1459:C:O5'	55:BW:27:LYS:NZ	2.45	0.48
34:BA:1501:C:O5'	34:BA:1501:C:H6	1.96	0.48
34:BA:270:A:C6	34:BA:271:C:N4	2.81	0.48
34:BA:292:G:H1	34:BA:308:C:H42	0.50	0.48
34:BA:293:G:H2'	34:BA:293:G:N3	2.27	0.48
34:BA:407:G:C4	34:BA:408:A:C8	3.02	0.48
34:BA:410:G:N2	34:BA:429:U:N3	2.60	0.48
34:BA:442:C:H2'	34:BA:443:C:H5'	1.95	0.48
34:BA:491:G:C2'	34:BA:492:G:H5'	2.42	0.48
34:BA:511:C:O2'	34:BA:512:U:O5'	2.31	0.48
34:BA:636:U:O2'	34:BA:637:G:H5'	2.13	0.48
34:BA:820:U:C2'	34:BA:820:U:O2	2.61	0.48
34:BA:861:G:H2'	34:BA:862:C:C6	2.48	0.48
34:BA:874:G:H2'	34:BA:874:G:N3	2.28	0.48
35:BB:53:G:C2	35:BB:54:U:C6	3.01	0.48
35:BC:57:G:H8	35:BC:57:G:H3'	1.79	0.48
37:BE:15:VAL:HG11	37:BE:209:ARG:CG	2.44	0.48
37:BE:220:ASP:O	37:BE:221:LEU:C	2.51	0.48
37:BE:74:LYS:HE2	37:BE:76:GLN:HG3	1.96	0.48
38:BF:156:ARG:O	38:BF:193:TYR:CE1	2.63	0.48
38:BF:190:ARG:NH1	38:BF:190:ARG:CB	2.72	0.48
39:BG:101:LEU:O	39:BG:104:VAL:HB	2.13	0.48
39:BG:75:PHE:CE1	39:BG:93:PHE:HZ	2.30	0.48
41:BI:6:VAL:CG2	41:BI:8:ILE:HG13	2.43	0.48
34:BA:1346:A:C2	42:BJ:10:ARG:CD	2.96	0.48
42:BJ:62:PHE:HA	42:BJ:124:LEU:HD22	1.95	0.48
43:BK:104:ARG:O	43:BK:106:GLY:N	2.46	0.48
43:BK:112:LEU:HA	43:BK:134:ILE:HG13	1.95	0.48
44:BL:10:ARG:N	44:BL:104:ARG:HE	2.12	0.48
44:BL:74:ILE:CA	44:BL:77:ILE:HD12	2.29	0.48
46:BN:60:ALA:O	46:BN:62:GLN:N	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:23:ALA:CB	46:BN:88:GLY:HA3	2.44	0.48
47:BO:119:LYS:O	47:BO:120:TYR:C	2.49	0.48
47:BO:36:VAL:N	47:BO:58:VAL:HG13	2.29	0.48
47:BO:73:GLU:OE2	47:BO:73:GLU:HA	2.12	0.48
47:BO:76:ASN:ND2	47:BO:77:LEU:H	2.11	0.48
48:BP:8:GLU:CD	48:BP:22:ILE:CG1	2.82	0.48
34:BA:1308:U:P	48:BP:99:ARG:HH11	2.36	0.48
49:BQ:15:LYS:O	49:BQ:16:PHE:CD2	2.67	0.48
52:BT:43:LEU:HD23	52:BT:44:ALA:H	1.77	0.48
52:BT:50:LYS:O	52:BT:52:LYS:HG3	2.14	0.48
52:BT:83:ASP:C	52:BT:86:GLU:HB2	2.29	0.48
53:BU:55:ARG:NH1	53:BU:55:ARG:O	2.47	0.48
10:AK:88:ARG:HB3	10:AK:122:ARG:HD3	1.95	0.48
12:AM:7:ASP:O	12:AM:8:ALA:HB2	2.13	0.48
24:A0:105:ARG:NE	24:A0:105:ARG:N	2.62	0.48
27:A3:23:VAL:O	27:A3:26:PHE:CD1	2.66	0.48
27:A3:37:LEU:HD12	27:A3:68:VAL:C	2.34	0.48
2:AA:2884:U:O4	29:A5:43:HIS:HA	2.13	0.48
29:A5:40:LYS:NZ	29:A5:49:CYS:SG	2.86	0.48
30:A6:21:TYR:O	30:A6:22:TYR:CG	2.66	0.48
30:A6:21:TYR:CZ	30:A6:43:VAL:N	2.82	0.48
31:A7:10:ARG:O	31:A7:14:LYS:CG	2.58	0.48
31:A7:21:ARG:HH22	31:A7:43:THR:N	2.12	0.48
33:A9:10:MET:O	33:A9:11:CYS:C	2.51	0.48
2:AA:1024:G:OP2	2:AA:1025:G:C2	2.67	0.48
2:AA:1166:C:N3	2:AA:1184:G:N1	2.61	0.48
2:AA:990:A:N1	2:AA:1186:G:H1'	2.27	0.48
2:AA:1202:C:N4	2:AA:1241:A:N3	2.59	0.48
2:AA:128:C:C4	2:AA:129:C:N4	2.82	0.48
2:AA:1299:G:H5'	2:AA:1301:A:H1'	1.95	0.48
2:AA:1321:A:N3	2:AA:1321:A:H2'	2.29	0.48
2:AA:1582:C:C3'	2:AA:1583:A:C4'	2.90	0.48
2:AA:1854:A:H1'	2:AA:2087:G:H21	1.78	0.48
2:AA:1879:C:C2	2:AA:1880:C:C5	3.01	0.48
2:AA:1924:C:C2	2:AA:1925:C:C6	3.01	0.48
2:AA:2013:A:H8	2:AA:2013:A:H3'	1.78	0.48
2:AA:747:U:O2	2:AA:2015:A:C2	2.64	0.48
2:AA:2052:G:C4	2:AA:2053:G:N7	2.81	0.48
2:AA:2085:C:C2	2:AA:2086:U:C6	3.01	0.48
2:AA:2102:U:C4	2:AA:2103:C:N4	2.81	0.48
2:AA:2118:U:H2'	2:AA:2119:A:C4'	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2185:C:C2	2:AA:2186:G:C8	3.02	0.48
2:AA:2335:A:C8	2:AA:2337:G:C5	3.01	0.48
2:AA:2339:G:C2	2:AA:2340:G:C4	3.02	0.48
2:AA:2417:C:C2'	2:AA:2418:A:H5'	2.43	0.48
2:AA:2469:A:C4'	2:AA:2469:A:C8	2.97	0.48
2:AA:2488:A:C5	2:AA:2489:G:N7	2.82	0.48
2:AA:2511:U:O2'	2:AA:2512:C:H5'	2.14	0.48
2:AA:2621:A:C5	2:AA:2622:C:C5	3.02	0.48
2:AA:2768:C:C2'	2:AA:2769:C:O5'	2.61	0.48
2:AA:2737:G:H1	2:AA:2768:C:N4	2.11	0.48
2:AA:364:C:C2'	2:AA:365:C:C5	2.87	0.48
2:AA:378:C:O2	2:AA:397:G:C2	2.67	0.48
2:AA:416:C:H2'	2:AA:417:C:O5'	2.14	0.48
2:AA:458:G:OP1	31:A7:39:ARG:NE	2.46	0.48
2:AA:630:G:H1	2:AA:634:C:N4	2.11	0.48
2:AA:67:U:N3	2:AA:68:G:N7	2.61	0.48
2:AA:744:G:O2'	2:AA:745:G:C5'	2.61	0.48
2:AA:791:C:N3	2:AA:794:G:C5'	2.73	0.48
2:AA:818:G:C2'	2:AA:819:A:H5''	2.43	0.48
2:AA:876:C:N4	2:AA:877:U:N3	2.61	0.48
2:AA:888:C:H1'	2:AA:890:A:C2	2.49	0.48
2:AA:874:G:C2	2:AA:904:C:N4	2.81	0.48
2:AA:911:A:C1'	2:AA:2264:C:H1'	2.44	0.48
1:AB:18:G:HO2'	1:AB:19:G:C5'	2.25	0.48
1:AB:58:A:O2'	7:AG:140:ARG:NE	2.46	0.48
3:AC:44:HIS:ND1	3:AC:172:HIS:CB	2.76	0.48
4:AD:140:VAL:HG12	4:AD:141:HIS:O	2.13	0.48
5:AE:109:ASP:CG	5:AE:112:LEU:CB	2.82	0.48
8:AH:34:ARG:NH1	8:AH:74:MET:HG2	2.29	0.48
9:AI:13:LEU:HD23	9:AI:17:GLU:CD	2.34	0.48
2:AA:1084:A:C1'	9:AI:25:LEU:HB3	2.43	0.48
9:AJ:29:PHE:O	9:AJ:33:ALA:HB3	2.13	0.48
10:AK:31:PHE:N	10:AK:31:PHE:CD1	2.81	0.48
11:AL:88:GLY:O	11:AL:89:SER:C	2.51	0.48
13:AN:11:ALA:CB	13:AN:99:PHE:CB	2.91	0.48
15:AP:16:ARG:HD3	15:AP:19:TYR:CG	2.49	0.48
18:AS:41:LYS:H	18:AS:41:LYS:CD	2.26	0.48
19:AT:36:GLU:O	19:AT:39:ASP:HB2	2.14	0.48
20:AU:105:ASP:O	20:AU:108:ARG:N	2.46	0.48
2:AA:483:A:H1'	20:AU:83:ASP:HA	1.95	0.48
21:AV:3:LEU:CB	21:AV:34:LEU:HB3	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:969:U:H4'	23:AX:14:GLY:C	2.33	0.48
34:BA:1044:A:H2'	34:BA:1045:C:H5'	1.92	0.48
34:BA:1182:G:H5'	34:BA:1184:G:C5'	2.43	0.48
34:BA:1237:C:H3'	34:BA:1238:A:H5'	1.95	0.48
34:BA:12:U:H5'	34:BA:526:C:O2'	2.14	0.48
34:BA:283:C:C4	34:BA:284:G:N7	2.82	0.48
34:BA:319:G:H4'	34:BA:1468:A:H4'	1.95	0.48
34:BA:363:A:N1	34:BA:364:A:N3	2.61	0.48
34:BA:533:A:C6	34:BA:536:C:C4	3.01	0.48
34:BA:593:G:H2'	34:BA:594:G:H5'	1.95	0.48
34:BA:609:A:C2'	34:BA:610:G:O5'	2.61	0.48
34:BA:622:A:H3'	34:BA:623:C:C5	2.48	0.48
34:BA:718:G:N7	34:BA:719:C:C4	2.81	0.48
34:BA:773:G:N1	34:BA:774:G:C5	2.82	0.48
34:BA:867:G:H2'	34:BA:868:C:H6	1.77	0.48
34:BA:931:C:N3	34:BA:1387:G:N1	2.61	0.48
35:BB:64:A:C5	35:BB:65:G:N7	2.81	0.48
35:BB:74:C:C2	35:BB:75:C:O4'	2.66	0.48
35:BB:8:U:O4'	35:BB:48:C:O2'	2.28	0.48
35:BC:26:G:C5	35:BC:27:C:C5	3.02	0.48
35:BC:55:U:H2'	35:BC:57:G:N7	2.28	0.48
35:BC:6:U:O2'	35:BC:7:U:O5'	2.30	0.48
37:BE:221:LEU:HD22	37:BE:221:LEU:C	2.34	0.48
37:BE:77:ALA:O	37:BE:78:GLN:C	2.51	0.48
38:BF:155:GLY:O	38:BF:156:ARG:CB	2.62	0.48
38:BF:185:GLY:O	38:BF:199:LYS:HA	2.14	0.48
38:BF:60:ALA:CB	45:BM:92:THR:OG1	2.62	0.48
39:BG:107:ARG:HB3	39:BG:174:LEU:HD11	1.95	0.48
39:BG:120:LEU:HG	39:BG:125:HIS:CB	2.42	0.48
43:BK:82:HIS:NE2	43:BK:84:ARG:HD2	2.27	0.48
44:BL:10:ARG:CA	44:BL:104:ARG:NE	2.56	0.48
46:BN:58:PRO:HB3	46:BN:90:GLY:HA2	1.95	0.48
47:BO:110:VAL:HG12	47:BO:111:LYS:O	2.14	0.48
49:BQ:36:PHE:CD1	49:BQ:37:PHE:N	2.81	0.48
34:BA:995:C:O2'	49:BQ:4:LYS:CE	2.62	0.48
50:BR:29:VAL:CG1	50:BR:85:LEU:HD11	2.42	0.48
50:BR:33:THR:HG21	50:BR:87:ILE:HD11	1.96	0.48
51:BS:21:VAL:CG2	51:BS:34:GLU:HB3	2.43	0.48
53:BU:63:GLN:C	53:BU:66:LEU:HG	2.34	0.48
53:BU:69:THR:O	53:BU:72:ARG:N	2.47	0.48
53:BU:86:VAL:O	53:BU:87:ARG:CB	2.62	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BV:25:LYS:O	54:BV:27:GLU:N	2.44	0.48
54:BV:36:ARG:HH21	54:BV:72:GLY:HA2	1.79	0.48
55:BW:79:ARG:CA	55:BW:82:SER:HB3	2.38	0.48
2:AA:1482:U:C2'	2:AA:1512:G:N2	2.76	0.48
4:AD:169:LYS:CB	4:AD:169:LYS:NZ	2.76	0.48
10:AK:135:PRO:C	10:AK:136:GLU:HG3	2.34	0.48
40:BH:48:ALA:HB3	40:BH:54:ALA:HB2	1.96	0.48
39:BG:167:GLY:O	39:BG:168:ARG:O	2.31	0.48
27:A3:29:GLU:O	27:A3:31:VAL:HB	2.13	0.48
28:A4:42:PHE:N	28:A4:57:ASP:CG	2.66	0.48
2:AA:1379:A:H62	31:A7:10:ARG:NH2	2.12	0.48
31:A7:8:ASN:O	31:A7:11:LYS:N	2.45	0.48
32:A8:23:MET:CE	32:A8:23:MET:HA	2.44	0.48
33:A9:32:HIS:O	33:A9:34:GLN:N	2.47	0.48
2:AA:1013:C:C2	2:AA:1014:U:C6	3.02	0.48
2:AA:99:U:H4'	2:AA:102:G:OP1	2.14	0.48
2:AA:85:G:O2'	2:AA:103:A:H2	1.96	0.48
2:AA:1082:U:C5	2:AA:1083:U:C5	3.02	0.48
2:AA:1133:U:O2'	2:AA:1134:G:C5'	2.60	0.48
2:AA:1180:C:HO2'	2:AA:1181:C:C5'	2.27	0.48
2:AA:1196:C:C2	2:AA:1197:G:C8	3.01	0.48
2:AA:118:A:O5'	2:AA:119:A:H8	1.96	0.48
2:AA:1208:C:N4	2:AA:1240:U:O4	2.47	0.48
2:AA:1287:A:C5	2:AA:1649:G:H1'	2.48	0.48
2:AA:1315:C:C2	2:AA:1316:U:C6	3.02	0.48
2:AA:1426:G:H3'	2:AA:1427:A:C8	2.47	0.48
2:AA:1520:U:OP2	2:AA:1520:U:C6	2.66	0.48
2:AA:1535:U:C5'	2:AA:1536:A:O5'	2.53	0.48
2:AA:1549:C:H2'	2:AA:1550:C:H5'	1.94	0.48
2:AA:1421:G:C6	2:AA:1577:C:N3	2.82	0.48
2:AA:1608:A:C6	2:AA:1611:C:C2	3.01	0.48
2:AA:163:U:OP2	2:AA:163:U:C6	2.66	0.48
2:AA:1672:C:H5	2:AA:1673:U:C6	2.31	0.48
2:AA:1709:U:C2'	2:AA:1710:C:O5'	2.62	0.48
2:AA:1827:C:N3	2:AA:1828:G:C1'	2.76	0.48
2:AA:1839:G:O6	2:AA:1927:A:C2	2.66	0.48
2:AA:1848:A:N7	2:AA:1849:G:N7	2.62	0.48
2:AA:1850:G:C6	2:AA:1851:U:C4	3.02	0.48
2:AA:1892:C:C4	2:AA:1893:C:C5	3.01	0.48
2:AA:2141:G:C6	2:AA:2150:U:C2	3.02	0.48
2:AA:2432:A:C2	2:AA:2433:A:C5	3.02	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:247:G:N2	32:A8:8:LYS:NZ	2.59	0.48
2:AA:2458:G:C6	2:AA:2490:G:H2'	2.48	0.48
2:AA:2554:U:C4	2:AA:2555:U:O4	2.67	0.48
2:AA:2563:U:O2	2:AA:2566:A:C8	2.66	0.48
2:AA:2568:C:O2	2:AA:2569:G:N9	2.46	0.48
2:AA:2607:G:H2'	2:AA:2608:G:O5'	2.13	0.48
2:AA:2612:C:O2'	2:AA:2613:U:O5'	2.31	0.48
2:AA:2634:G:C6	2:AA:2635:C:C5	3.01	0.48
2:AA:270(Q):C:C6	2:AA:270(R):G:C8	3.01	0.48
2:AA:2729:G:H2'	2:AA:2730:C:O4'	2.14	0.48
2:AA:2742:C:C2	2:AA:2743:C:C5	3.01	0.48
2:AA:2792:G:N2	2:AA:2793:G:N1	2.62	0.48
2:AA:2820:A:N6	5:AE:304:ASP:CB	2.76	0.48
2:AA:322:A:N3	2:AA:341:G:C4	2.82	0.48
2:AA:388:G:C1'	2:AA:390:A:N6	2.75	0.48
2:AA:451:C:H41	2:AA:453:C:H3'	1.77	0.48
2:AA:473:G:H2'	2:AA:474:G:C5'	2.43	0.48
2:AA:547:A:C2'	2:AA:547:A:N3	2.76	0.48
2:AA:72:U:H2'	2:AA:73:A:OP1	2.14	0.48
2:AA:763:G:C8	2:AA:765:G:C8	3.00	0.48
2:AA:81:G:N1	2:AA:106:C:C4	2.82	0.48
2:AA:843:G:H2'	2:AA:844:C:C6	2.48	0.48
2:AA:878:A:C2	2:AA:879:G:C8	3.01	0.48
2:AA:886:C:O2	2:AA:886:C:H2'	2.13	0.48
2:AA:866:A:N6	2:AA:914:C:C6	2.82	0.48
1:AB:90:C:C2'	1:AB:91:C:O5'	2.61	0.48
1:AB:8:U:O2'	1:AB:9:G:H8	1.96	0.48
3:AC:22:ILE:HG22	3:AC:186:ALA:CA	2.16	0.48
3:AC:59:ARG:CD	3:AC:164:ARG:HD3	2.43	0.48
3:AC:69:GLY:C	3:AC:71:GLN:N	2.67	0.48
4:AD:94:ASN:OD1	4:AD:100:LYS:CE	2.62	0.48
4:AD:142:ASN:CG	4:AD:190:THR:CG2	2.82	0.48
4:AD:143:ILE:CG2	4:AD:153:LEU:HB2	2.43	0.48
5:AE:192:ILE:O	5:AE:194:ARG:HG2	2.13	0.48
5:AE:75:THR:C	5:AE:292:PRO:HB2	2.34	0.48
5:AE:296:VAL:HG12	5:AE:297:LYS:N	2.28	0.48
6:AF:197:SER:O	6:AF:238:SER:CB	2.61	0.48
7:AG:22:VAL:O	7:AG:24:HIS:CE1	2.66	0.48
7:AG:69:ILE:HG22	7:AG:69:ILE:O	2.14	0.48
9:AI:77:VAL:HG13	9:AI:102:ILE:HD11	1.96	0.48
9:AI:25:LEU:HA	9:AI:28:LYS:CG	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:75:LYS:HE2	11:AL:66:PHE:CE2	2.48	0.48
11:AL:93:LYS:HD3	11:AL:96:ILE:CD1	2.42	0.48
13:AN:5:GLU:HB3	13:AN:20:LEU:CD2	2.44	0.48
13:AN:15:GLY:C	13:AN:52:VAL:HG21	2.33	0.48
14:AO:72:ASN:O	14:AO:75:LEU:HB3	2.14	0.48
18:AS:75:TYR:CE1	18:AS:104:THR:CB	2.96	0.48
18:AS:70:TYR:CE2	18:AS:72:LYS:HA	2.49	0.48
18:AS:84:ARG:O	18:AS:95:ILE:CG2	2.61	0.48
20:AU:30:ASP:O	20:AU:31:LEU:C	2.50	0.48
20:AU:49:GLU:O	20:AU:97:ARG:CG	2.61	0.48
20:AU:63:ILE:HG22	20:AU:64:ASN:OD1	2.13	0.48
21:AV:154:LEU:HD23	21:AV:155:PRO:N	2.29	0.48
22:AW:16:ARG:HA	22:AW:19:GLU:OE1	2.13	0.48
2:AA:931:G:OP1	23:AX:27:GLY:HA3	2.14	0.48
36:B1:54:G:C2	36:B1:55:U:C5	3.01	0.48
34:BA:1028:C:C4	34:BA:1029:C:N4	2.82	0.48
34:BA:1087:G:C4	34:BA:1088:G:C8	3.02	0.48
34:BA:1213:A:H2'	34:BA:1215:G:N7	2.28	0.48
34:BA:1231:G:C2'	34:BA:1232:U:H6	2.24	0.48
34:BA:128:G:H8	34:BA:128:G:O5'	1.96	0.48
34:BA:1301:U:C4	34:BA:1303:C:C1'	2.97	0.48
34:BA:1308:U:H4'	48:BP:92:HIS:HE1	1.79	0.48
34:BA:130:A:N7	52:BT:64:PRO:HD2	2.27	0.48
34:BA:1370:G:O2'	34:BA:1371:G:H5'	2.14	0.48
34:BA:1419:G:C2'	34:BA:1420:C:C6	2.96	0.48
34:BA:145:G:C6	34:BA:178:C:C4	3.02	0.48
34:BA:1419:G:N1	34:BA:1482:G:C4	2.81	0.48
34:BA:1418:A:N1	34:BA:1483:A:N1	2.62	0.48
34:BA:196:A:N3	34:BA:222:U:H1'	2.29	0.48
34:BA:240:C:C2	34:BA:241:C:C5	3.01	0.48
34:BA:262:A:C2'	34:BA:263:A:C8	2.96	0.48
34:BA:327:A:C4	34:BA:329:A:C8	3.02	0.48
34:BA:478:A:C5	34:BA:479:C:N4	2.81	0.48
34:BA:392:G:O2'	34:BA:483:C:O4'	2.31	0.48
34:BA:528:C:H4'	34:BA:535:A:C6	2.48	0.48
34:BA:643:C:HO2'	43:BK:132:GLU:CD	2.17	0.48
34:BA:682:G:C2	34:BA:683:G:C8	3.00	0.48
34:BA:712:A:H2'	34:BA:713:G:O4'	2.13	0.48
34:BA:587:G:N1	34:BA:755:G:C6	2.81	0.48
34:BA:762:C:C4	34:BA:763:G:O6	2.67	0.48
34:BA:771:G:O6	34:BA:809:G:C5	2.67	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:832:C:O2'	34:BA:833:U:H5'	2.13	0.48
34:BA:83:U:H2'	34:BA:84:U:H6	1.77	0.48
34:BA:887:G:C6	34:BA:888:G:C5	3.01	0.48
34:BA:939:G:H2'	34:BA:940:C:C6	2.48	0.48
34:BA:982:U:H5''	34:BA:983:A:OP1	2.13	0.48
35:BB:66:A:C6	35:BB:67:A:C6	3.01	0.48
37:BE:188:ALA:HB1	37:BE:192:SER:CB	2.44	0.48
37:BE:222:ILE:HG13	37:BE:223:ILE:N	2.27	0.48
38:BF:173:VAL:N	38:BF:174:PRO:CD	2.76	0.48
38:BF:35:GLU:O	38:BF:39:ILE:HG13	2.13	0.48
34:BA:545:C:OP2	39:BG:62:GLN:OE1	2.31	0.48
40:BH:9:LYS:HD3	40:BH:108:ALA:CA	2.44	0.48
41:BI:52:ILE:O	41:BI:55:ASP:CB	2.58	0.48
41:BI:33:TYR:CE2	41:BI:75:LEU:N	2.81	0.48
42:BJ:100:ALA:O	42:BJ:104:LEU:CD2	2.41	0.48
42:BJ:75:VAL:HG13	42:BJ:87:VAL:C	2.34	0.48
44:BL:17:VAL:C	44:BL:18:PHE:CD1	2.87	0.48
44:BL:72:GLY:O	44:BL:75:ASP:CG	2.52	0.48
45:BM:48:THR:HG22	45:BM:60:ARG:HG3	1.95	0.48
46:BN:112:THR:O	46:BN:112:THR:HG22	2.14	0.48
46:BN:69:ALA:O	46:BN:72:ALA:CB	2.60	0.48
47:BO:45:PRO:CB	47:BO:49:ASN:O	2.60	0.48
48:BP:92:HIS:CE1	48:BP:98:VAL:HG21	2.48	0.48
49:BQ:27:CYS:H	49:BQ:43:CYS:HB3	1.79	0.48
49:BQ:27:CYS:C	49:BQ:29:ARG:H	2.12	0.48
49:BQ:29:ARG:HG2	49:BQ:29:ARG:NH1	2.27	0.48
50:BR:37:ASN:HD22	50:BR:37:ASN:N	2.10	0.48
50:BR:45:VAL:O	50:BR:46:HIS:CB	2.60	0.48
50:BR:59:MET:O	50:BR:60:VAL:C	2.52	0.48
34:BA:392:G:H5''	51:BS:12:LYS:NZ	2.29	0.48
51:BS:80:PHE:O	51:BS:82:GLN:N	2.47	0.48
52:BT:31:LEU:CD1	52:BT:31:LEU:O	2.56	0.48
55:BW:16:HIS:O	55:BW:18:GLN:N	2.47	0.48
35:BB:31:A:H8	35:BB:31:A:H5''	1.73	0.48
10:AK:116:GLU:HG3	10:AK:132:LYS:HG3	1.96	0.48
10:AK:89:LEU:HD11	10:AK:124:LEU:HD13	1.94	0.48
18:AS:86:LEU:CB	18:AS:87:PRO:CD	2.91	0.48
2:AA:1114:G:N2	2:AA:1115:G:N9	2.62	0.48
18:AS:68:ARG:HB3	18:AS:110:LYS:H	1.79	0.48
24:A0:44:LEU:HD13	24:A0:44:LEU:O	2.14	0.48
24:A0:55:ALA:HB1	24:A0:79:LEU:CD2	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:A0:22:ARG:HH21	24:A0:69:ASP:HB3	1.79	0.48
25:A1:111:ASP:HA	25:A1:114:ARG:CG	2.44	0.48
25:A1:14:HIS:CD2	25:A1:36:PHE:HZ	2.32	0.48
25:A1:47:TYR:CE1	26:A2:76:SER:CA	2.80	0.48
25:A1:84:LYS:CE	25:A1:92:ARG:NH2	2.77	0.48
25:A1:94:VAL:HG12	25:A1:98:ILE:CD1	2.43	0.48
26:A2:4:ILE:HG23	26:A2:13:ARG:HA	1.96	0.48
27:A3:79:ILE:O	27:A3:81:ILE:CD1	2.61	0.48
32:A8:23:MET:HE2	32:A8:23:MET:HA	1.95	0.48
32:A8:26:LYS:CG	32:A8:45:GLY:N	2.76	0.48
2:AA:1031:G:N1	2:AA:1032:A:C6	2.82	0.48
2:AA:1083:U:H5'	2:AA:1083:U:C6	2.49	0.48
2:AA:809:G:C4'	2:AA:1254:A:H1'	2.43	0.48
2:AA:1429:G:C2'	2:AA:1430:C:O4'	2.62	0.48
2:AA:1497:U:C4	2:AA:1498:C:C5	3.02	0.48
2:AA:1527:G:H2'	2:AA:1528:A:O5'	2.13	0.48
2:AA:1636:C:O2	2:AA:1636:C:C2'	2.61	0.48
2:AA:1707:G:C2'	2:AA:1708:C:C6	2.94	0.48
2:AA:1754:C:N3	2:AA:1755:A:C4	2.81	0.48
2:AA:1842:G:C4	2:AA:1843:C:C6	3.02	0.48
2:AA:1907:G:N3	2:AA:1908:C:C5	2.81	0.48
2:AA:1916:A:C8	2:AA:1916:A:O5'	2.66	0.48
2:AA:1986:A:C2	2:AA:1987:G:C5	3.01	0.48
2:AA:2004:G:C6	2:AA:2005:A:C4	3.02	0.48
2:AA:2020:A:N7	2:AA:2022:U:O4	2.47	0.48
2:AA:2027:G:C1'	2:AA:2037:G:N2	2.72	0.48
2:AA:2058:A:N1	2:AA:2059:A:N6	2.61	0.48
2:AA:2117:A:C2	2:AA:2118:U:H4'	2.49	0.48
2:AA:2151:G:N1	2:AA:2152:G:N3	2.61	0.48
2:AA:2209:C:H2'	2:AA:2210:G:H3'	0.77	0.48
2:AA:2244:U:C2'	2:AA:2245:U:O5'	2.62	0.48
2:AA:225:A:C6	2:AA:226:G:C5	3.02	0.48
2:AA:2333:A:N9	2:AA:2335:A:C2	2.81	0.48
2:AA:2364:C:C5'	27:A3:38:VAL:CG1	2.88	0.48
2:AA:2407:G:N3	2:AA:2408:U:C4	2.82	0.48
2:AA:2417:C:HO2'	2:AA:2418:A:H5'	1.77	0.48
2:AA:2434:A:O2'	2:AA:2435:A:C5'	2.62	0.48
2:AA:251:A:C4	2:AA:252:G:H1'	2.49	0.48
2:AA:2707:G:O2'	2:AA:2708:G:H5'	2.13	0.48
2:AA:2838:G:C2'	2:AA:2839:G:O5'	2.62	0.48
2:AA:2851:A:C2	2:AA:2852:G:O4'	2.65	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2876:G:H2'	2:AA:2877:G:OP2	2.13	0.48
2:AA:8:A:N6	2:AA:2895:U:H3	2.08	0.48
2:AA:298:G:OP2	2:AA:298:G:C8	2.67	0.48
2:AA:352:G:C5	2:AA:353:G:C8	3.02	0.48
2:AA:35:G:C2	2:AA:454:A:C2	3.00	0.48
2:AA:447:A:C5	2:AA:454:A:N6	2.81	0.48
2:AA:627:A:N6	2:AA:637:A:C1'	2.76	0.48
2:AA:662:G:N3	2:AA:663:G:N7	2.61	0.48
2:AA:693:C:C2	2:AA:694:U:C6	3.02	0.48
2:AA:746:A:O2'	2:AA:747:U:OP2	2.30	0.48
2:AA:802:A:C2'	2:AA:803:U:H6	2.17	0.48
2:AA:811:U:C6	2:AA:811:U:H3'	2.48	0.48
2:AA:958:U:O2'	2:AA:959:A:H5''	2.12	0.48
2:AA:2123:G:H4'	3:AC:172:HIS:CE1	2.49	0.48
3:AC:215:THR:CB	3:AC:220:PRO:O	2.62	0.48
3:AC:68:LEU:CD2	3:AC:72:VAL:HG21	2.43	0.48
4:AD:122:ASP:OD2	4:AD:124:LYS:HB2	2.14	0.48
4:AD:128:ALA:CB	4:AD:190:THR:HA	2.43	0.48
4:AD:174:ARG:HA	4:AD:180:VAL:CG1	2.23	0.48
4:AD:107:LYS:HB2	4:AD:195:GLY:HA2	1.95	0.48
2:AA:1789:A:O3'	4:AD:224:VAL:HG22	2.13	0.48
5:AE:174:LEU:CD1	5:AE:174:LEU:N	2.68	0.48
2:AA:2680:C:OP2	5:AE:261:ARG:NH1	2.47	0.48
5:AE:46:ALA:CB	5:AE:72:VAL:CG2	2.80	0.48
5:AE:63:GLU:HB2	5:AE:64:GLY:H	1.30	0.48
2:AA:1205:U:O2	6:AF:232:LEU:HD12	2.14	0.48
6:AF:231:ARG:C	6:AF:232:LEU:HG	2.33	0.48
6:AF:33:LYS:O	6:AF:34:ALA:C	2.52	0.48
7:AG:27:ILE:C	7:AG:29:HIS:N	2.67	0.48
8:AH:70:LEU:O	8:AH:73:ASN:CB	2.60	0.48
8:AH:34:ARG:HB3	8:AH:74:MET:CE	2.44	0.48
9:AJ:125:VAL:HG12	9:AJ:126:GLU:N	2.28	0.48
9:AJ:64:LYS:O	9:AJ:65:SER:CB	2.61	0.48
10:AK:19:LYS:CD	10:AK:20:ASN:H	2.25	0.48
11:AL:72:THR:HG1	11:AL:115:ASP:HB3	1.72	0.48
12:AM:136:SER:HA	12:AM:139:LEU:CD2	2.44	0.48
13:AN:22:ILE:N	13:AN:41:ALA:HB2	2.28	0.48
14:AO:67:ARG:CD	14:AO:111:ALA:O	2.61	0.48
15:AP:94:ARG:HD3	15:AP:106:GLY:HA2	1.96	0.48
15:AP:17:ARG:O	15:AP:23:ILE:CD1	2.62	0.48
15:AP:35:ASN:ND2	21:AV:114:ASP:H	2.10	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AQ:127:LEU:HD22	16:AQ:129:ILE:HG12	1.96	0.48
16:AQ:23:ARG:HG2	16:AQ:33:ARG:NH2	2.28	0.48
16:AQ:23:ARG:HH21	16:AQ:35:VAL:CG2	2.20	0.48
16:AQ:31:LYS:HD2	16:AQ:99:GLU:O	2.13	0.48
16:AQ:84:THR:O	16:AQ:87:LEU:HB2	2.14	0.48
16:AQ:90:LEU:HA	16:AQ:93:GLN:CG	2.43	0.48
18:AS:55:ALA:CA	18:AS:107:LEU:CD1	2.86	0.48
19:AT:75:GLN:O	19:AT:76:GLU:C	2.51	0.48
20:AU:19:ARG:C	20:AU:67:LEU:HD22	2.34	0.48
21:AV:107:GLU:N	21:AV:107:GLU:OE2	2.44	0.48
15:AP:32:LYS:CE	21:AV:172:LEU:CD1	2.91	0.48
22:AW:19:GLU:CG	22:AW:23:LEU:HD11	2.42	0.48
36:B1:9:C:H2'	36:B1:10:U:H6	1.79	0.48
34:BA:920:U:H4'	34:BA:1080:A:N6	2.29	0.48
34:BA:1103:C:N3	34:BA:1104:G:C5	2.81	0.48
34:BA:1276:G:H1'	34:BA:1282:C:HO2'	1.77	0.48
34:BA:128:G:C6	34:BA:129:U:C4	3.02	0.48
34:BA:1310:G:C6	34:BA:1328:C:C4	3.01	0.48
34:BA:949:A:H4'	34:BA:1364:U:O4	2.13	0.48
34:BA:1418:A:C3'	34:BA:1419:G:H5'	2.44	0.48
34:BA:1441:G:H5''	34:BA:1442:G:C5'	2.44	0.48
34:BA:1514:C:C2	34:BA:1515:C:C5	3.02	0.48
34:BA:1538:C:C2	34:BA:1539:C:C6	3.01	0.48
34:BA:157:G:C6	34:BA:165:C:N4	2.82	0.48
34:BA:201:C:H42	34:BA:216:G:H1	1.62	0.48
34:BA:247:G:C6	34:BA:278:G:N1	2.81	0.48
34:BA:321:A:C2	34:BA:333:G:C2	3.02	0.48
34:BA:46:G:N1	34:BA:366:C:C2	2.82	0.48
34:BA:721:G:H4'	34:BA:722:A:O4'	2.14	0.48
34:BA:753:A:H4'	34:BA:754:C:C5'	2.44	0.48
34:BA:892:A:C6	34:BA:893:C:C4	3.02	0.48
34:BA:99:C:O2'	34:BA:101:A:P	2.71	0.48
35:BC:11:C:HO2'	35:BC:12:U:H5'	1.78	0.48
37:BE:45:GLN:O	37:BE:46:LYS:C	2.50	0.48
39:BG:155:LEU:HB2	39:BG:158:ILE:CG1	2.34	0.48
39:BG:57:ARG:HG2	39:BG:205:GLU:HB2	1.96	0.48
40:BH:105:VAL:CG1	40:BH:106:PRO:N	2.77	0.48
40:BH:107:ARG:HB2	40:BH:107:ARG:NH1	2.29	0.48
40:BH:109:ILE:HD12	40:BH:139:LEU:HD11	1.96	0.48
40:BH:32:VAL:HG13	40:BH:33:VAL:N	2.27	0.48
40:BH:84:PHE:O	40:BH:86:ALA:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BJ:106:GLN:CA	42:BJ:109:ASN:ND2	2.59	0.48
34:BA:1131:G:P	44:BL:20:ARG:NH2	2.87	0.48
45:BM:16:LEU:HD13	45:BM:94:VAL:HG11	1.95	0.48
46:BN:22:HIS:O	46:BN:28:THR:HG23	2.13	0.48
46:BN:59:TYR:CE2	46:BN:63:LEU:HD11	2.49	0.48
47:BO:54:LYS:N	47:BO:54:LYS:CD	2.76	0.48
47:BO:89:ARG:C	47:BO:90:VAL:CG2	2.82	0.48
48:BP:29:ARG:HD3	48:BP:64:TRP:NE1	2.28	0.48
48:BP:91:ARG:HB3	48:BP:98:VAL:HG13	1.95	0.48
50:BR:69:TYR:O	50:BR:72:ARG:N	2.47	0.48
51:BS:67:THR:N	51:BS:70:ALA:HB3	2.29	0.48
54:BV:48:THR:HA	54:BV:60:VAL:O	2.13	0.48
55:BW:65:LYS:O	55:BW:68:LYS:HB2	2.13	0.48
55:BW:73:HIS:C	55:BW:76:ALA:HB3	2.34	0.48
10:AK:88:ARG:HG2	10:AK:123:ALA:HA	1.96	0.48
48:BP:100:GLY:O	48:BP:101:GLN:C	2.52	0.48
2:AA:1574:C:C2	2:AA:1575:C:N3	2.82	0.48
24:A0:16:HIS:N	24:A0:16:HIS:ND1	2.54	0.48
26:A2:35:LEU:N	26:A2:60:VAL:CG1	2.70	0.48
26:A2:69:ILE:CG2	26:A2:89:ASN:O	2.61	0.48
29:A5:16:ARG:O	29:A5:19:ARG:HB3	2.14	0.48
32:A8:3:LYS:C	32:A8:4:MET:SD	2.92	0.48
32:A8:58:MET:O	32:A8:61:MET:N	2.47	0.48
2:AA:2753:A:O2'	33:A9:15:LYS:NZ	2.47	0.48
33:A9:7:VAL:C	33:A9:8:LYS:HE3	2.34	0.48
2:AA:1009:A:C6	2:AA:1010:A:N1	2.81	0.48
2:AA:114:U:H2'	2:AA:115:C:H6	1.78	0.48
2:AA:1183:G:OP1	23:AX:29:ARG:CG	2.46	0.48
2:AA:972:G:C5	2:AA:1188:U:O4	2.62	0.48
2:AA:1224:G:O2'	26:A2:86:HIS:CA	2.62	0.48
2:AA:125:G:O2'	31:A7:13:ALA:HB1	2.13	0.48
2:AA:1326:U:H2'	2:AA:1327:C:O4'	2.14	0.48
2:AA:1397:U:O2	2:AA:1397:U:C2'	2.61	0.48
2:AA:1410:G:C2	2:AA:1593:G:C2	3.01	0.48
2:AA:444(A):A:C2'	2:AA:1460:A:O2'	2.58	0.48
2:AA:1579:A:H2'	2:AA:1580:A:C5'	2.44	0.48
2:AA:1579:A:OP2	2:AA:1580:A:N7	2.47	0.48
2:AA:1650:G:O2'	2:AA:1651:G:O5'	2.31	0.48
2:AA:1710:C:H4'	2:AA:2858:C:N3	2.29	0.48
2:AA:1790:C:O2	2:AA:1791:A:C8	2.67	0.48
2:AA:1812:A:C2	2:AA:1813:G:H1'	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1818:U:C2'	2:AA:1819:A:OP2	2.62	0.48
2:AA:1829:A:N1	2:AA:1830:C:H1'	2.29	0.48
2:AA:1861:G:O2'	2:AA:1862:G:H5'	2.14	0.48
2:AA:1872:A:C2'	2:AA:1878:G:C5'	2.87	0.48
2:AA:2018:G:H2'	2:AA:2019:A:O5'	2.13	0.48
2:AA:2041:U:H2'	2:AA:2042:A:O4'	2.14	0.48
2:AA:2048:G:C2	2:AA:2049:G:C4	3.02	0.48
2:AA:2286:A:C4'	2:AA:2287:A:O4'	2.62	0.48
2:AA:2298:A:C2	2:AA:2299:G:C1'	2.97	0.48
2:AA:2344:U:OP1	30:A6:39:LYS:HE2	2.13	0.48
2:AA:2356:C:C6	2:AA:2356:C:C3'	2.97	0.48
2:AA:2414:G:C4	2:AA:2415:G:N7	2.82	0.48
2:AA:2476:A:C8	2:AA:2477:C:H6	2.32	0.48
2:AA:2558:C:O2	2:AA:2559:C:C6	2.67	0.48
2:AA:2575:C:C5'	2:AA:2576:G:OP2	2.60	0.48
2:AA:2681:C:H1'	2:AA:2682:U:C5	2.48	0.48
2:AA:2737:G:N1	2:AA:2768:C:N4	2.61	0.48
2:AA:2817:G:C6	2:AA:2818:G:N7	2.81	0.48
2:AA:296:C:H6	2:AA:338:G:N2	2.10	0.48
2:AA:357:A:C6	2:AA:358:U:C5	3.02	0.48
2:AA:39:C:N3	2:AA:40:C:C4	2.82	0.48
2:AA:521:G:H2'	2:AA:522:G:H8	1.79	0.48
2:AA:540:G:O6	2:AA:541:C:N4	2.47	0.48
2:AA:673:C:C1'	6:AF:82:GLN:OE1	2.62	0.48
2:AA:723:G:O2'	2:AA:724:U:O4'	2.30	0.48
2:AA:738:G:C5	2:AA:739:G:C2	3.00	0.48
2:AA:59:U:C6	2:AA:73:A:N6	2.81	0.48
2:AA:827:U:H4'	2:AA:828:U:O2	2.14	0.48
2:AA:858:U:H2'	2:AA:2268:A:O2'	2.13	0.48
2:AA:906:G:N3	2:AA:906:G:C2'	2.76	0.48
2:AA:974:G:OP1	2:AA:1188:U:C5	2.66	0.48
2:AA:975:G:C8	2:AA:990:A:N1	2.82	0.48
2:AA:993:G:O6	2:AA:1160:G:C6	2.67	0.48
1:AB:32:C:H3'	1:AB:33:G:H8	1.78	0.48
1:AB:78:A:H2'	1:AB:79:C:C5'	2.44	0.48
1:AB:82:G:O6	1:AB:95:U:C4	2.67	0.48
1:AB:8:U:O2	1:AB:112:G:C6	2.64	0.48
3:AC:127:LEU:O	3:AC:128:GLY:C	2.52	0.48
2:AA:2125:G:H5'	3:AC:130:ILE:HG13	1.95	0.48
3:AC:112:ALA:HB1	3:AC:156:ILE:HD13	1.94	0.48
5:AE:199:ALA:HB1	5:AE:311:PHE:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:102:LEU:HB3	6:AF:107:ARG:HE	1.79	0.48
6:AF:22:PHE:CZ	6:AF:115:LEU:HD12	2.49	0.48
6:AF:6:TYR:CD1	6:AF:139:VAL:O	2.67	0.48
6:AF:149:LYS:O	6:AF:152:GLU:N	2.47	0.48
6:AF:3:ALA:CB	6:AF:18:LEU:HD23	2.42	0.48
8:AH:117:GLU:C	8:AH:117:GLU:OE1	2.52	0.48
8:AH:121:GLU:OE2	8:AH:134:GLY:CA	2.48	0.48
10:AK:1:MET:HB2	10:AK:22:ALA:HA	1.95	0.48
2:AA:1080:C:HO2'	11:AL:127:ILE:HG13	1.79	0.48
13:AN:21:VAL:HG12	13:AN:22:ILE:C	2.33	0.48
13:AN:23:LYS:O	13:AN:39:VAL:HG13	2.14	0.48
15:AP:148:ASN:ND2	15:AP:149:ILE:N	2.62	0.48
15:AP:35:ASN:HD21	21:AV:113:VAL:C	2.17	0.48
15:AP:57:ARG:O	15:AP:61:LEU:CD2	2.62	0.48
16:AQ:87:LEU:CD2	16:AQ:87:LEU:N	2.75	0.48
17:AR:50:GLU:HG3	17:AR:55:ALA:HB3	1.92	0.48
18:AS:5:ALA:HB1	18:AS:50:VAL:CG1	2.44	0.48
20:AU:9:LYS:HA	20:AU:13:ARG:HD2	1.96	0.48
20:AU:31:LEU:HD22	20:AU:113:GLU:CD	2.33	0.48
21:AV:103:ARG:HH11	21:AV:139:THR:HG22	1.79	0.48
21:AV:112:LEU:CD1	21:AV:142:ASN:HA	2.43	0.48
23:AX:30:ARG:HH21	23:AX:33:GLN:HB2	1.77	0.48
23:AX:41:PRO:CA	23:AX:44:ARG:HB3	2.41	0.48
36:B1:52:A:H8	36:B1:52:A:O5'	1.97	0.48
34:BA:1039:C:O2'	34:BA:1040:U:H5'	2.13	0.48
34:BA:1140:C:H2'	34:BA:1141:C:H5'	1.95	0.48
34:BA:1157:A:H5''	34:BA:1158:C:OP1	2.13	0.48
34:BA:1190:G:OP1	38:BF:5:ILE:CG1	2.50	0.48
34:BA:1201:A:C2'	34:BA:1202:G:OP2	2.62	0.48
34:BA:1220:G:C2	34:BA:1221:G:C4	3.02	0.48
34:BA:1269:A:C2'	34:BA:1270:C:H5'	2.43	0.48
34:BA:1347:G:C8	44:BL:107:ARG:O	2.67	0.48
34:BA:145:G:N1	34:BA:178:C:C4	2.82	0.48
34:BA:1472:U:H2'	34:BA:1473:A:C5'	2.44	0.48
34:BA:1528:U:O2	34:BA:1530:G:C5'	2.61	0.48
34:BA:21:G:O2'	34:BA:22:G:H5'	2.14	0.48
34:BA:258:G:H1	34:BA:268:C:N4	2.08	0.48
34:BA:277:C:N4	34:BA:278:G:C5	2.82	0.48
34:BA:321:A:N6	34:BA:328:C:H1'	2.17	0.48
34:BA:38:G:C2	34:BA:397:A:N3	2.81	0.48
34:BA:392:G:H2'	34:BA:393:A:O4'	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:476:G:O2'	34:BA:477:G:C5'	2.61	0.48
34:BA:505:G:N2	34:BA:535:A:N6	2.61	0.48
34:BA:623:C:O2'	34:BA:624:C:H5'	2.13	0.48
34:BA:673:G:C5	34:BA:734:G:C2	3.02	0.48
34:BA:707:C:O2'	34:BA:708:C:H5'	2.14	0.48
34:BA:667:G:C2	34:BA:740:U:C2	3.02	0.48
34:BA:757:U:O2	34:BA:879:C:O2'	2.31	0.48
37:BE:158:LEU:O	37:BE:160:ASP:N	2.47	0.48
37:BE:167:PRO:C	37:BE:169:LYS:N	2.64	0.48
37:BE:222:ILE:HD12	37:BE:226:ARG:NH2	2.21	0.48
38:BF:134:ILE:HG23	38:BF:151:VAL:HB	1.96	0.48
38:BF:44:GLU:HA	38:BF:52:LEU:CD1	2.43	0.48
39:BG:38:TYR:OH	39:BG:45:GLN:NE2	2.46	0.48
42:BJ:118:VAL:CG1	42:BJ:122:HIS:NE2	2.66	0.48
42:BJ:31:MET:O	42:BJ:32:ARG:CB	2.61	0.48
43:BK:14:ARG:HD2	43:BK:15:ASN:H	1.78	0.48
43:BK:24:THR:C	43:BK:60:ARG:HG3	2.30	0.48
44:BL:50:LEU:CD2	44:BL:55:ALA:O	2.62	0.48
45:BM:51:ARG:HH22	45:BM:61:GLU:CD	2.16	0.48
45:BM:49:VAL:O	45:BM:60:ARG:CG	2.62	0.48
45:BM:84:GLN:O	45:BM:85:LEU:HD23	2.13	0.48
46:BN:71:LYS:O	46:BN:74:ALA:N	2.46	0.48
34:BA:362:G:OP1	47:BO:34:ARG:NH2	2.47	0.48
47:BO:70:ILE:HD13	47:BO:77:LEU:HD13	1.96	0.48
50:BR:43:LEU:HA	50:BR:43:LEU:HD23	1.70	0.48
50:BR:54:ARG:HA	50:BR:57:LEU:HD22	1.95	0.48
50:BR:62:GLN:HA	50:BR:65:ARG:CZ	2.43	0.48
51:BS:55:ARG:NH2	51:BS:58:TYR:CG	2.82	0.48
51:BS:75:ARG:HG3	51:BS:80:PHE:CB	2.44	0.48
52:BT:23:VAL:HG12	52:BT:23:VAL:O	2.14	0.48
54:BV:21:GLU:O	54:BV:24:ALA:HB3	2.14	0.48
54:BV:24:ALA:O	54:BV:26:GLY:N	2.46	0.48
54:BV:50:ALA:HA	54:BV:58:VAL:O	2.14	0.48
36:B1:63:C:C4'	36:B1:63:C:OP2	2.61	0.48
10:AK:114:LYS:NZ	10:AK:133:LEU:HA	2.27	0.48
10:AK:77:VAL:HB	10:AK:142:LYS:O	2.14	0.48
36:B1:15:A:OP2	36:B1:17:G:O6	2.32	0.48
36:B1:21:U:H2'	36:B1:22:C:N1	2.28	0.48
27:A3:6:GLY:O	27:A3:8:GLY:N	2.46	0.48
24:A0:41:ALA:O	24:A0:42:LYS:C	2.53	0.48
24:A0:84:ALA:O	24:A0:85:PRO:C	2.51	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A1:30:LYS:O	25:A1:32:TYR:N	2.44	0.48
2:AA:445:C:H3'	25:A1:3:ARG:NE	2.28	0.48
26:A2:6:GLN:NE2	26:A2:10:LYS:CB	2.71	0.48
26:A2:24:SER:O	26:A2:28:GLU:HG3	2.14	0.48
26:A2:74:TYR:CZ	26:A2:88:GLN:CA	2.90	0.48
27:A3:44:LYS:HD3	27:A3:78:PHE:CD2	2.46	0.48
2:AA:1809:A:H61	28:A4:3:LYS:HG2	1.65	0.48
2:AA:2020:A:H62	29:A5:9:LYS:HE2	1.79	0.48
2:AA:2345:G:OP1	30:A6:39:LYS:O	2.31	0.48
2:AA:1612:C:N1	31:A7:3:ARG:CZ	2.77	0.48
31:A7:46:ASP:OD2	31:A7:46:ASP:O	2.31	0.48
31:A7:3:ARG:C	31:A7:4:THR:OG1	2.52	0.48
32:A8:10:ALA:HA	32:A8:14:ILE:CG2	2.22	0.48
32:A8:19:THR:CB	32:A8:21:LYS:NZ	2.77	0.48
32:A8:25:PHE:O	32:A8:26:LYS:C	2.51	0.48
33:A9:9:LYS:NZ	33:A9:16:VAL:CG2	2.77	0.48
2:AA:1057:A:N1	2:AA:1081:U:O2	2.47	0.48
2:AA:1091:G:N2	2:AA:1101:U:N1	2.62	0.48
2:AA:1047:G:H2'	2:AA:1110:G:C2	2.49	0.48
2:AA:1131:G:N2	2:AA:1132:A:C2	2.81	0.48
2:AA:1209:G:H4'	2:AA:1212:G:C5'	2.43	0.48
2:AA:125:G:H3'	31:A7:19:ARG:NH1	2.29	0.48
2:AA:1315:C:H2'	2:AA:1316:U:C6	2.47	0.48
2:AA:1327:C:N4	2:AA:1647:G:H21	2.11	0.48
2:AA:135:G:C4	2:AA:145:G:N1	2.82	0.48
2:AA:138:G:O2'	2:AA:140:A:C5'	2.54	0.48
2:AA:1422:G:C2	2:AA:1423:G:C4	3.02	0.48
2:AA:146:G:H2'	2:AA:147:U:C4'	2.44	0.48
2:AA:1497:U:H3	2:AA:1577:C:H4'	1.77	0.48
2:AA:1542:G:N3	2:AA:1542:G:H2'	2.29	0.48
2:AA:1682:G:C4	2:AA:1757:U:H1'	2.49	0.48
2:AA:1726:G:N3	2:AA:1727:U:H5'	2.29	0.48
2:AA:1732:A:O2'	2:AA:1733:G:OP1	2.23	0.48
2:AA:1682:G:C6	2:AA:1757:U:H1'	2.49	0.48
2:AA:1799:G:N1	4:AD:177:SER:CB	2.77	0.48
2:AA:1809:A:H61	28:A4:3:LYS:HB3	1.77	0.48
2:AA:1856:G:C2'	2:AA:1857:G:O5'	2.62	0.48
2:AA:1766:U:H3	2:AA:1986:A:H61	1.62	0.48
2:AA:2075:U:C4	2:AA:2238:G:O6	2.66	0.48
2:AA:2076:U:O2'	2:AA:2077:A:P	2.72	0.48
2:AA:223:A:C2	2:AA:408:G:C8	3.02	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2280:G:C6	2:AA:2281:C:C4	3.01	0.48
2:AA:2295:C:C4	2:AA:2337:G:N1	2.68	0.48
2:AA:2305:A:C3'	2:AA:2305:A:C8	2.97	0.48
2:AA:2326:C:C2'	2:AA:2326:C:O2	2.62	0.48
2:AA:2353:G:O2'	27:A3:31:VAL:CG2	2.60	0.48
2:AA:2356:C:H6	2:AA:2356:C:O5'	1.96	0.48
2:AA:2423:U:C1'	2:AA:2425:A:C4	2.97	0.48
2:AA:957:A:C2	2:AA:2459:A:C5'	2.96	0.48
2:AA:2461:C:N3	2:AA:2462:U:C5	2.82	0.48
2:AA:2521:C:C2	2:AA:2522:U:C6	3.01	0.48
2:AA:1265:A:P	2:AA:2615:U:OP1	2.72	0.48
2:AA:2677:G:C2	2:AA:2678:C:C5	3.02	0.48
2:AA:2685:G:C2	2:AA:2686:G:N7	2.82	0.48
2:AA:2706:G:C2	2:AA:2707:G:N7	2.81	0.48
2:AA:270(Q):C:H2'	2:AA:270(R):G:O4'	2.14	0.48
2:AA:2733:A:C2'	2:AA:2734:A:O5'	2.59	0.48
2:AA:279:C:O4'	2:AA:279:C:OP2	2.31	0.48
2:AA:2629:A:H61	2:AA:2801:A:H2	1.61	0.48
2:AA:2808:U:O2	2:AA:2810:A:C6	2.67	0.48
2:AA:312:G:OP2	2:AA:332:A:H5'	2.14	0.48
2:AA:352:G:O6	2:AA:353:G:C6	2.67	0.48
2:AA:533:G:C6	2:AA:534:U:N3	2.81	0.48
2:AA:728:G:C6	2:AA:730:C:N3	2.82	0.48
2:AA:728:G:C2	2:AA:730:C:C2	3.01	0.48
2:AA:849:A:H2'	2:AA:850:C:O4'	2.14	0.48
2:AA:864:G:H2'	2:AA:865:C:H1'	1.92	0.48
2:AA:871:U:H2'	2:AA:872:A:H8	1.78	0.48
2:AA:930:U:H2'	2:AA:931:G:N9	2.29	0.48
1:AB:115:G:O2'	1:AB:116:G:H5'	2.14	0.48
1:AB:81:G:C6	1:AB:82:G:C5	3.01	0.48
3:AC:139:ASN:HA	3:AC:140:PRO:HD2	1.76	0.48
4:AD:130:PRO:HA	4:AD:188:ARG:HG2	1.95	0.48
4:AD:143:ILE:HB	4:AD:153:LEU:HB2	1.95	0.48
4:AD:68:ARG:HG2	4:AD:68:ARG:HH11	1.79	0.48
4:AD:83:ASP:HA	4:AD:84:PRO:HD3	1.70	0.48
5:AE:102:ASP:CG	5:AE:104:PHE:CE1	2.87	0.48
5:AE:269:ILE:N	5:AE:269:ILE:CD1	2.61	0.48
5:AE:267:ARG:CB	5:AE:297:LYS:HD2	2.39	0.48
2:AA:2784:C:O4'	5:AE:97:THR:OG1	2.32	0.48
6:AF:147:LEU:HD11	6:AF:156:LEU:HD21	1.96	0.48
6:AF:221:GLU:O	6:AF:225:PRO:HG3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:47:GLY:CA	6:AF:92:PRO:HG2	2.43	0.48
2:AA:1084:A:C8	9:AI:25:LEU:HD13	2.48	0.48
9:AJ:59:PHE:C	9:AJ:128:LYS:HE3	2.34	0.48
10:AK:28:ASN:O	10:AK:29:PHE:C	2.51	0.48
11:AL:109:ALA:O	11:AL:110:LYS:C	2.50	0.48
2:AA:1080:C:C3'	11:AL:126:LYS:HB3	2.44	0.48
12:AM:17:CYS:SG	12:AM:44:ALA:CB	3.02	0.48
12:AM:41:ALA:CB	12:AM:75:PRO:HB2	2.44	0.48
13:AN:97:ARG:HH22	34:BA:339:C:P	2.37	0.48
14:AO:120:LEU:CD1	14:AO:121:ILE:N	2.75	0.48
16:AQ:115:VAL:HG12	16:AQ:119:GLN:CG	2.43	0.48
16:AQ:82:TYR:O	16:AQ:86:LEU:HG	2.14	0.48
18:AS:85:VAL:CG1	18:AS:95:ILE:HD11	2.37	0.48
20:AU:49:GLU:OE2	20:AU:58:GLU:N	2.47	0.48
21:AV:123:VAL:CB	21:AV:161:ALA:H	2.27	0.48
34:BA:1126:U:O2'	34:BA:1127:G:H5'	2.13	0.48
34:BA:1150:U:C4'	34:BA:1280:A:C2	2.96	0.48
34:BA:1257:U:O2'	34:BA:1258:G:H8	1.93	0.48
34:BA:978:A:C6	34:BA:1318:A:C6	3.02	0.48
34:BA:1348:U:C2	34:BA:1349:A:H8	2.32	0.48
34:BA:1351:U:O2'	34:BA:1352:C:H5'	2.14	0.48
34:BA:1358:U:H5''	34:BA:1359:C:OP2	2.14	0.48
34:BA:1422:G:O6	34:BA:1423:G:O6	2.31	0.48
2:AA:1920:C:H4'	34:BA:1496:C:O2'	2.14	0.48
34:BA:1514:C:N4	34:BA:1515:C:H41	2.11	0.48
34:BA:196:A:H1'	34:BA:222:U:O4'	2.13	0.48
34:BA:404:U:OP1	39:BG:118:ARG:NH1	2.47	0.48
34:BA:409:G:N3	34:BA:410:G:C8	2.82	0.48
34:BA:428:G:O2'	34:BA:429:U:OP2	2.31	0.48
34:BA:673:G:C2	34:BA:674:G:N1	2.81	0.48
34:BA:754:C:C2'	34:BA:755:G:OP1	2.62	0.48
35:BB:15:G:N2	35:BB:60:C:O2	2.47	0.48
35:BC:15:G:N1	35:BC:21:A:H2	2.12	0.48
35:BC:36:A:HO2'	35:BC:37:G:P	2.37	0.48
35:BC:47:U:C5	35:BC:49:C:H4'	2.49	0.48
38:BF:141:VAL:HG11	38:BF:202:ILE:HD13	1.96	0.48
38:BF:175:LEU:O	38:BF:176:HIS:O	2.32	0.48
38:BF:43:LEU:O	38:BF:44:GLU:C	2.52	0.48
39:BG:56:VAL:HG12	39:BG:57:ARG:CD	2.44	0.48
39:BG:62:GLN:NE2	39:BG:62:GLN:HA	2.29	0.48
40:BH:75:THR:CA	40:BH:115:VAL:HG12	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BK:126:LYS:C	43:BK:126:LYS:CD	2.82	0.48
43:BK:25:ASP:C	43:BK:58:TYR:CE2	2.85	0.48
43:BK:73:ASP:OD2	43:BK:73:ASP:C	2.51	0.48
44:BL:113:LYS:N	44:BL:113:LYS:HD2	2.29	0.48
44:BL:93:ARG:O	44:BL:95:LYS:N	2.42	0.48
45:BM:75:ILE:O	45:BM:76:ASN:ND2	2.47	0.48
45:BM:8:LEU:HD22	45:BM:94:VAL:HG12	1.95	0.48
47:BO:100:ILE:CD1	47:BO:100:ILE:H	2.15	0.48
49:BQ:29:ARG:CB	49:BQ:40:CYS:HB3	2.37	0.48
49:BQ:29:ARG:HB3	49:BQ:40:CYS:SG	2.53	0.48
50:BR:27:VAL:O	50:BR:31:LEU:CD1	2.57	0.48
50:BR:64:ARG:HA	50:BR:67:LEU:HD12	1.95	0.48
50:BR:69:TYR:CE1	50:BR:73:GLU:HG2	2.49	0.48
51:BS:71:ARG:HB3	51:BS:71:ARG:HH11	1.78	0.48
53:BU:82:THR:O	53:BU:83:GLU:HB2	2.13	0.48
54:BV:38:SER:O	54:BV:70:LYS:CA	2.62	0.48
55:BW:18:GLN:O	55:BW:19:SER:C	2.51	0.48
10:AK:111:ASP:OD2	10:AK:112:LYS:HD3	2.14	0.48
10:AK:88:ARG:HB3	10:AK:122:ARG:HB3	1.96	0.48
10:AK:124:LEU:CD1	10:AK:146:THR:HA	2.43	0.48
35:BB:9:A:HO2'	35:BB:45:G:C2'	2.25	0.48
2:AA:1147:C:C6	2:AA:1147:C:H3'	2.48	0.48
24:A0:24:GLN:O	24:A0:26:LYS:N	2.47	0.47
24:A0:81:ASP:O	24:A0:85:PRO:HG2	2.14	0.47
26:A2:28:GLU:O	26:A2:29:ALA:HB3	2.13	0.47
27:A3:7:VAL:HG12	27:A3:7:VAL:O	2.14	0.47
28:A4:43:TRP:HA	28:A4:56:VAL:O	2.14	0.47
29:A5:34:PRO:CD	29:A5:49:CYS:SG	3.02	0.47
31:A7:39:ARG:C	31:A7:40:HIS:ND1	2.67	0.47
2:AA:1309:G:OP1	31:A7:9:ASN:N	2.47	0.47
2:AA:1059:G:N7	2:AA:1060:U:C1'	2.77	0.47
2:AA:1131:G:HO2'	2:AA:1132:A:P	2.35	0.47
2:AA:1181:C:O2'	2:AA:1182:A:O4'	2.31	0.47
2:AA:118:A:OP2	2:AA:119:A:C8	2.67	0.47
2:AA:331:A:C2	2:AA:1209:G:C6	3.02	0.47
2:AA:1238:G:O2'	2:AA:1239:G:H5'	2.13	0.47
2:AA:1311:G:H3'	2:AA:1311:G:H8	1.78	0.47
2:AA:139:G:C2'	2:AA:141(A):C:C2'	2.82	0.47
2:AA:137(A):G:N7	2:AA:142:G:N3	2.62	0.47
2:AA:136:G:C6	2:AA:143:C:N3	2.81	0.47
2:AA:148:C:C2'	2:AA:149:A:C8	2.94	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1589:C:H2'	2:AA:1590:U:O4'	2.14	0.47
2:AA:1613:G:C2'	2:AA:1617:C:N4	2.67	0.47
2:AA:1612:C:H42	2:AA:1619:G:H1	0.53	0.47
2:AA:1634:A:O2'	2:AA:1635:G:P	2.71	0.47
2:AA:1791:A:H5''	2:AA:1792:G:C8	2.49	0.47
2:AA:181:A:N3	2:AA:182:A:C8	2.82	0.47
2:AA:1916:A:O2'	2:AA:1917:U:N3	2.46	0.47
2:AA:2069:G:H2'	2:AA:2069:G:N3	2.29	0.47
2:AA:2078:C:H5'	2:AA:2434:A:C5'	2.44	0.47
2:AA:2213:U:C4'	2:AA:2215:G:N7	2.77	0.47
2:AA:2232:U:C2'	2:AA:2233:U:H5'	2.43	0.47
2:AA:2304:G:C2	2:AA:2313:C:O2	2.67	0.47
2:AA:2360:A:H5''	32:A8:49:VAL:CG2	2.43	0.47
2:AA:2360:A:C2'	2:AA:2361:A:O5'	2.56	0.47
2:AA:2538:C:O2'	2:AA:2539:C:O5'	2.32	0.47
2:AA:2543:G:C5	2:AA:2544:G:C5	3.02	0.47
2:AA:25:U:C3'	2:AA:26:G:C8	2.97	0.47
2:AA:2633:G:H2'	2:AA:2634:G:O5'	2.14	0.47
2:AA:2699:C:N4	2:AA:2708:G:C6	2.82	0.47
2:AA:2706:G:H8	2:AA:2706:G:O5'	1.97	0.47
2:AA:2720:U:C4	2:AA:2872:G:C6	3.02	0.47
2:AA:2722:G:O2'	2:AA:2723:C:H5'	2.14	0.47
2:AA:272:G:C2	2:AA:273:G:C4	3.02	0.47
2:AA:274:G:O2'	2:AA:275:G:H5'	2.13	0.47
2:AA:2810:A:C8	2:AA:2810:A:H3'	2.49	0.47
2:AA:2838:G:H2'	2:AA:2839:G:O5'	2.13	0.47
2:AA:2862:G:O2'	2:AA:2863:C:O4'	2.22	0.47
2:AA:364:C:OP2	2:AA:364:C:C6	2.67	0.47
2:AA:35:G:C4	2:AA:454:A:N3	2.82	0.47
2:AA:507:A:C5'	2:AA:509:C:O4'	2.62	0.47
2:AA:541:C:O2'	2:AA:542:C:O5'	2.32	0.47
2:AA:545(A):A:O5'	2:AA:545(A):A:H8	1.97	0.47
2:AA:535:C:H42	2:AA:558:G:H1	1.61	0.47
2:AA:593:G:C1'	32:A8:3:LYS:NZ	2.63	0.47
2:AA:602:G:O3'	2:AA:603:A:C4'	2.35	0.47
2:AA:602:G:H5'	2:AA:604:G:H5'	1.96	0.47
2:AA:66:C:C4	2:AA:89:G:C6	3.02	0.47
2:AA:742:G:C4	2:AA:743:G:C8	3.02	0.47
2:AA:742:G:C2	2:AA:743:G:N9	2.82	0.47
2:AA:743:G:N1	2:AA:744:G:C5	2.82	0.47
2:AA:827:U:O5'	2:AA:828:U:N3	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:878:A:N3	2:AA:878:A:C2'	2.77	0.47
2:AA:908:C:C2'	2:AA:909:A:H5'	2.44	0.47
2:AA:960:A:H2'	2:AA:962:G:H8	1.79	0.47
2:AA:959:A:N3	2:AA:960:A:N7	2.61	0.47
2:AA:974:G:C4'	2:AA:974(A):C:OP1	2.49	0.47
3:AC:163:PHE:CD2	3:AC:192:PHE:HE1	2.31	0.47
4:AD:63:ILE:HD13	4:AD:86:ARG:HH22	1.74	0.47
5:AE:226:HIS:HA	5:AE:229:GLN:CD	2.34	0.47
6:AF:110:ALA:O	6:AF:111:VAL:C	2.51	0.47
7:AG:149:ARG:O	7:AG:151:ILE:N	2.39	0.47
2:AA:1046:A:N3	9:AI:32:THR:HG21	2.29	0.47
9:AI:52:ALA:HB1	9:AI:58:GLU:CB	2.42	0.47
9:AI:99:ASP:C	9:AI:101:VAL:H	2.17	0.47
9:AJ:70:LYS:HD2	11:AL:62:GLU:OE1	2.13	0.47
11:AL:15:ALA:C	11:AL:17:LYS:H	2.17	0.47
12:AM:23:ALA:CA	12:AM:26:VAL:CG2	2.87	0.47
12:AM:46:ILE:O	12:AM:47:THR:O	2.31	0.47
13:AN:119:PRO:HG2	13:AN:120:GLU:N	2.29	0.47
13:AN:31:ARG:O	13:AN:32:TYR:CD2	2.67	0.47
15:AP:45:GLN:HA	15:AP:125:TRP:NE1	2.29	0.47
15:AP:48:ASN:O	15:AP:121:ASP:CB	2.56	0.47
15:AP:58:HIS:CE1	15:AP:59:ASN:CG	2.87	0.47
16:AQ:17:ARG:NH1	16:AQ:106:LEU:CD2	2.75	0.47
16:AQ:42:HIS:NE2	16:AQ:44:ARG:NH2	2.62	0.47
16:AQ:99:GLU:OE1	16:AQ:128:ASP:CG	2.53	0.47
17:AR:13:ILE:HG13	17:AR:33:SER:HA	1.95	0.47
19:AT:28:VAL:O	19:AT:29:ASP:O	2.31	0.47
20:AU:78:THR:C	20:AU:89:ARG:NE	2.67	0.47
21:AV:136:VAL:C	21:AV:137:ASP:CG	2.72	0.47
21:AV:148:THR:O	21:AV:149:ALA:O	2.32	0.47
21:AV:7:PRO:CG	21:AV:8:ARG:N	2.70	0.47
23:AX:22:ALA:O	23:AX:26:LEU:CG	2.54	0.47
34:BA:1536:C:C2	36:B1:54:G:C2	3.02	0.47
34:BA:1018:C:N3	34:BA:1019:C:C5	2.82	0.47
34:BA:1004:A:C3'	34:BA:1025:U:C4	2.95	0.47
34:BA:1128:C:H2'	34:BA:1128:C:O2	2.14	0.47
34:BA:1148:U:H5'	44:BL:16:ARG:HD2	1.96	0.47
34:BA:1124:G:N2	34:BA:1149:C:N3	2.58	0.47
34:BA:1180:A:OP1	44:BL:102:LEU:HG	2.13	0.47
34:BA:1280:A:O4'	45:BM:41:PRO:CG	2.56	0.47
34:BA:128:G:C2'	34:BA:129:U:H5'	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1407:C:H2'	34:BA:1408:A:C5'	2.44	0.47
34:BA:1514:C:N4	34:BA:1515:C:N4	2.61	0.47
34:BA:1517:G:N1	34:BA:1518:A:N3	2.62	0.47
34:BA:153:C:O2'	34:BA:154:C:C5'	2.62	0.47
34:BA:161:A:H2'	34:BA:162:A:C8	2.49	0.47
34:BA:188:C:C2	34:BA:189:G:C8	3.01	0.47
34:BA:191:G:C6	34:BA:192:U:O4	2.67	0.47
34:BA:257:G:O2'	34:BA:258:G:H5'	2.13	0.47
34:BA:258:G:N3	34:BA:259:G:N7	2.61	0.47
34:BA:292:G:C4	34:BA:309:G:C2	3.02	0.47
34:BA:314:C:H2'	34:BA:315:A:H1'	1.95	0.47
34:BA:393:A:O2'	34:BA:394:G:H5'	2.14	0.47
34:BA:483:C:C3'	34:BA:483:C:C6	2.97	0.47
34:BA:597:G:N9	34:BA:644:G:N2	2.62	0.47
34:BA:688:G:H2'	34:BA:689:C:C5'	2.44	0.47
34:BA:748:C:O2'	34:BA:749:C:C6	2.63	0.47
34:BA:77:G:C6	34:BA:78:G:N7	2.82	0.47
34:BA:817:C:H1'	34:BA:819:A:H5''	1.96	0.47
34:BA:887:G:C5	34:BA:888:G:N7	2.82	0.47
34:BA:900:A:N7	34:BA:901:A:N7	2.62	0.47
35:BC:7:U:N3	35:BC:67:A:C2	2.82	0.47
37:BE:32:ILE:HD13	37:BE:40:HIS:HD2	1.79	0.47
37:BE:32:ILE:HD13	37:BE:40:HIS:CD2	2.48	0.47
37:BE:77:ALA:CB	37:BE:211:ILE:CD1	2.92	0.47
37:BE:9:GLU:OE2	37:BE:12:GLU:HG2	2.14	0.47
39:BG:155:LEU:O	39:BG:158:ILE:CB	2.62	0.47
40:BH:35:GLY:HA3	40:BH:41:VAL:HG13	1.96	0.47
41:BI:26:ILE:C	41:BI:30:LEU:CD1	2.82	0.47
41:BI:33:TYR:CG	41:BI:75:LEU:HB2	2.49	0.47
42:BJ:112:PRO:O	42:BJ:113:GLU:C	2.51	0.47
42:BJ:138:LYS:O	42:BJ:140:ASP:N	2.47	0.47
42:BJ:155:ARG:HD3	42:BJ:155:ARG:HA	1.49	0.47
42:BJ:50:ILE:CD1	42:BJ:58:PRO:HA	2.44	0.47
43:BK:32:LYS:O	43:BK:33:GLU:C	2.50	0.47
44:BL:93:ARG:HE	44:BL:97:LYS:HB2	1.79	0.47
34:BA:1123:A:O2'	45:BM:38:ILE:HG22	2.14	0.47
48:BP:96:LEU:O	48:BP:97:PRO:C	2.52	0.47
51:BS:20:VAL:HA	51:BS:36:ILE:HG13	1.94	0.47
52:BT:11:VAL:CG2	52:BT:20:THR:CB	2.91	0.47
34:BA:276:G:O2'	52:BT:68:ARG:NH1	2.46	0.47
53:BU:73:ALA:HB1	53:BU:79:LEU:CD1	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:23:A:H2'	35:BB:24:G:C8	2.49	0.47
2:AA:1116:C:H2'	2:AA:1117:G:H8	1.79	0.47
10:AK:70:GLU:CD	10:AK:70:GLU:C	2.73	0.47
21:AV:26:LYS:HD2	21:AV:27:GLU:CD	2.33	0.47
11:AL:52:MET:SD	11:AL:81:LYS:CG	3.02	0.47
11:AL:51:GLY:O	11:AL:81:LYS:HE3	2.14	0.47
39:BG:187:ARG:HG3	39:BG:188:LEU:H	1.78	0.47
45:BM:12:ASP:O	45:BM:14:LYS:N	2.46	0.47
3:AC:141:LYS:HD3	3:AC:141:LYS:O	2.14	0.47
24:A0:67:LEU:CD2	24:A0:72:ASP:N	2.70	0.47
2:AA:534:U:C4'	25:A1:46:GLU:HG2	2.44	0.47
25:A1:94:VAL:CG1	25:A1:98:ILE:HD13	2.44	0.47
25:A1:96:ALA:O	25:A1:97:ASP:C	2.53	0.47
25:A1:94:VAL:O	25:A1:98:ILE:HD13	2.14	0.47
27:A3:65:GLY:C	27:A3:66:LYS:HE3	2.34	0.47
29:A5:43:HIS:O	29:A5:44:HIS:ND1	2.47	0.47
30:A6:16:ALA:HB3	30:A6:19:GLY:HA3	1.96	0.47
2:AA:2285:C:C5	30:A6:28:ARG:NH2	2.64	0.47
2:AA:1006:C:H2'	2:AA:1007:C:C6	2.49	0.47
2:AA:1054:A:C5	2:AA:1055:G:O6	2.67	0.47
2:AA:1069:A:H2	2:AA:1096:A:H5'	1.78	0.47
2:AA:1109:C:H5	2:AA:1110:G:C6	2.32	0.47
2:AA:122:G:O2'	2:AA:123:G:H5'	2.14	0.47
2:AA:1260:G:C6	2:AA:1261:C:C4	3.02	0.47
2:AA:1288:U:H4'	2:AA:1289:C:OP1	2.13	0.47
2:AA:1331:A:H2'	2:AA:1333:C:C5	2.49	0.47
2:AA:137:C:H5'	2:AA:137(A):G:OP2	2.13	0.47
2:AA:1413:G:H2'	2:AA:1414:G:H5'	1.96	0.47
2:AA:449(A):G:H2'	2:AA:1450:C:O5'	2.14	0.47
2:AA:1455:G:C2'	2:AA:1456:G:H5'	2.44	0.47
2:AA:1551:C:C2'	2:AA:1552:G:C8	2.89	0.47
2:AA:1563:G:C5	2:AA:1564:C:C5	3.02	0.47
2:AA:1606:G:H4'	2:AA:1608:A:N3	2.29	0.47
2:AA:1635:G:C8	2:AA:1635:G:P	3.07	0.47
2:AA:1670:C:C6	2:AA:1670:C:C4'	2.97	0.47
2:AA:1670:C:H3'	2:AA:1671:U:C5	2.49	0.47
2:AA:1729:A:C5	2:AA:1731:G:O6	2.67	0.47
2:AA:1777:U:C2	2:AA:1778:U:C5	3.01	0.47
2:AA:1823:G:O2'	2:AA:1824:G:C5'	2.62	0.47
2:AA:1827:C:H5'	2:AA:1971:A:H4'	1.95	0.47
2:AA:1916:A:H2'	2:AA:1917:U:N3	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1960:A:O2'	34:BA:1484:C:H4'	2.14	0.47
2:AA:2013:A:C8	2:AA:2013:A:H3'	2.49	0.47
2:AA:202:U:O2'	2:AA:203:C:O4'	2.29	0.47
2:AA:2199:A:C4	2:AA:2225:A:H2	2.28	0.47
2:AA:2303:G:N2	2:AA:2304:G:C4	2.82	0.47
2:AA:2316:C:O2'	7:AG:151:ILE:HD12	2.13	0.47
2:AA:2441:C:C2'	2:AA:2442:C:O5'	2.62	0.47
2:AA:2526:G:C4	2:AA:2527:C:C6	3.02	0.47
2:AA:2545:G:O2'	2:AA:2565:A:N1	2.41	0.47
2:AA:2569:G:C2	2:AA:2570:G:C8	3.02	0.47
2:AA:2053:G:N2	2:AA:2616:C:N3	2.51	0.47
2:AA:270(O):U:H5"	2:AA:270(P):C:C6	2.38	0.47
2:AA:2742:C:C5'	33:A9:35:ARG:CZ	2.92	0.47
2:AA:278:A:C8	2:AA:278:A:C3'	2.97	0.47
2:AA:2817:G:C4	2:AA:2818:G:C8	3.02	0.47
2:AA:2828:C:C2'	2:AA:2829:C:O5'	2.63	0.47
2:AA:285:C:C2	2:AA:286:C:C4	3.02	0.47
2:AA:2868:A:H8	2:AA:2868:A:O5'	1.97	0.47
2:AA:31:C:C2	2:AA:32:C:C6	3.02	0.47
2:AA:401:A:C4	2:AA:402:A:N7	2.82	0.47
2:AA:41:C:O2'	2:AA:43:G:H5'	2.13	0.47
2:AA:442:G:C2	6:AF:46:TYR:OH	2.59	0.47
2:AA:466:A:C2	2:AA:796:C:C1'	2.97	0.47
2:AA:480:A:N3	2:AA:499:U:O2'	2.31	0.47
2:AA:533:G:N2	2:AA:560:C:C2	2.74	0.47
2:AA:618:G:C5	2:AA:618(A):C:C4	3.02	0.47
2:AA:652:C:C2'	2:AA:653:A:OP1	2.62	0.47
2:AA:684:G:N1	2:AA:794:G:N1	2.62	0.47
2:AA:76:C:H4'	22:AW:55:ARG:HG3	1.95	0.47
2:AA:831:G:N1	2:AA:832:G:C4	2.82	0.47
2:AA:929:G:O5'	2:AA:929:G:H8	1.96	0.47
2:AA:952:G:C6	2:AA:966:G:C6	3.02	0.47
2:AA:969:U:H4'	23:AX:14:GLY:CA	2.43	0.47
1:AB:87:G:H3'	1:AB:88:C:C5'	2.44	0.47
3:AC:14:VAL:HG22	3:AC:28:LEU:CG	2.44	0.47
3:AC:75:LEU:HD11	3:AC:99:ILE:CG2	2.44	0.47
4:AD:166:LYS:HB2	4:AD:171:VAL:CA	2.38	0.47
5:AE:48:MET:C	5:AE:49:THR:CG2	2.82	0.47
5:AE:84:ARG:HB2	5:AE:174:LEU:CD2	2.44	0.47
6:AF:166:ILE:O	6:AF:168:ARG:CG	2.47	0.47
6:AF:168:ARG:C	6:AF:193:LEU:HG	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:219:ASN:O	6:AF:222:ASP:N	2.47	0.47
6:AF:28:SER:O	6:AF:31:ILE:N	2.47	0.47
6:AF:45:ASP:O	6:AF:46:TYR:CD1	2.67	0.47
7:AG:21:VAL:HG23	7:AG:75:LEU:O	2.15	0.47
7:AG:47:GLN:NE2	7:AG:79:MET:HG3	2.28	0.47
8:AH:83:GLU:CB	8:AH:133:LYS:HG2	2.34	0.47
8:AH:136:ASP:N	8:AH:136:ASP:OD1	2.47	0.47
9:AJ:19:ALA:O	9:AJ:22:VAL:HB	2.14	0.47
9:AI:110:GLU:OE1	9:AJ:57:THR:HG21	2.14	0.47
10:AK:43:ASN:N	10:AK:43:ASN:HD22	2.10	0.47
12:AM:15:ARG:C	12:AM:17:CYS:H	2.17	0.47
12:AM:45:VAL:HG13	12:AM:131:THR:CA	2.43	0.47
14:AO:65:ASP:N	14:AO:65:ASP:OD1	2.47	0.47
15:AP:42:TYR:O	15:AP:125:TRP:CH2	2.65	0.47
15:AP:66:ASN:O	15:AP:69:ASN:CG	2.53	0.47
16:AQ:86:LEU:HD22	16:AQ:124:ASP:HB2	1.95	0.47
2:AA:2334:G:C1'	16:AQ:21:HIS:HD1	2.26	0.47
20:AU:87:VAL:CG1	20:AU:88:PRO:CD	2.87	0.47
20:AU:49:GLU:CB	20:AU:97:ARG:HD2	2.38	0.47
2:AA:873:G:O2'	21:AV:115:ILE:CD1	2.62	0.47
21:AV:94:VAL:HG21	21:AV:125:PRO:HD2	1.95	0.47
22:AW:48:GLU:O	22:AW:49:LEU:C	2.52	0.47
23:AX:39:ASP:CA	23:AX:44:ARG:NH2	2.75	0.47
34:BA:1195:C:H3'	34:BA:1195:C:P	2.54	0.47
34:BA:1203:C:O2'	34:BA:1204:A:C5'	2.60	0.47
34:BA:1234:C:C5'	34:BA:1364:U:O2'	2.61	0.47
34:BA:1274:G:C2'	34:BA:1275:A:H8	2.19	0.47
34:BA:1371:G:C2'	34:BA:1372:U:O5'	2.62	0.47
34:BA:1413:A:C2	34:BA:1414:U:N1	2.82	0.47
34:BA:1431:C:O2	34:BA:1431:C:C2'	2.61	0.47
34:BA:1433:A:H2'	34:BA:1434:A:H5'	1.95	0.47
34:BA:1465:C:H2'	34:BA:1466:C:O5'	2.15	0.47
34:BA:14:U:C4	34:BA:16:A:O5'	2.67	0.47
34:BA:253:U:H3'	34:BA:253:U:OP2	2.14	0.47
34:BA:330:C:O2'	34:BA:331:G:C5'	2.61	0.47
34:BA:405:U:O4	39:BG:2:GLY:N	2.48	0.47
34:BA:455:C:H2'	34:BA:455:C:O2	2.12	0.47
34:BA:418:C:O2'	34:BA:540:G:H1'	2.14	0.47
34:BA:738:C:C2	34:BA:739:C:C5	3.03	0.47
34:BA:784:C:N3	34:BA:785:G:N7	2.61	0.47
34:BA:786:G:C6	34:BA:797:C:N4	2.83	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:880:C:C2	34:BA:881:G:C8	3.02	0.47
34:BA:967:C:C5	34:BA:968:A:H2'	2.49	0.47
34:BA:970:C:H42	48:BP:126:LYS:HZ3	1.55	0.47
35:BB:56:C:C6	35:BB:56:C:O5'	2.65	0.47
35:BC:27:C:N3	35:BC:28:C:N4	2.61	0.47
35:BC:19:G:C2	35:BC:57:G:N2	2.83	0.47
37:BE:196:LEU:HD12	37:BE:197:VAL:HA	1.96	0.47
37:BE:208:ILE:O	37:BE:211:ILE:HB	2.14	0.47
37:BE:25:ASN:C	37:BE:27:LYS:H	2.17	0.47
34:BA:1205:U:O2'	38:BF:195:VAL:HG23	2.13	0.47
34:BA:15:G:H4'	40:BH:24:ARG:NH2	2.28	0.47
41:BI:52:ILE:O	41:BI:53:ALA:HB3	2.14	0.47
42:BJ:42:ILE:CG2	42:BJ:120:ILE:HD11	2.41	0.47
42:BJ:4:ARG:O	42:BJ:5:ARG:O	2.32	0.47
43:BK:103:VAL:HG11	43:BK:109:ILE:O	2.14	0.47
43:BK:16:ALA:HB1	43:BK:21:LYS:HB2	1.96	0.47
43:BK:44:PHE:O	43:BK:64:LYS:CD	2.63	0.47
43:BK:70:GLN:HE21	43:BK:70:GLN:HA	1.78	0.47
44:BL:30:GLY:O	44:BL:31:GLN:OE1	2.32	0.47
45:BM:24:VAL:O	45:BM:28:ARG:CD	2.62	0.47
47:BO:47:LYS:HB2	47:BO:48:PRO:HD3	1.95	0.47
34:BA:1226:C:C6	48:BP:103:THR:O	2.68	0.47
48:BP:9:ILE:O	48:BP:11:ARG:N	2.47	0.47
48:BP:23:TYR:O	48:BP:66:LEU:HB2	2.13	0.47
48:BP:51:ALA:O	48:BP:55:ARG:HG3	2.14	0.47
50:BR:56:LEU:CD1	50:BR:59:MET:HE1	2.44	0.47
53:BU:60:GLY:O	53:BU:62:GLU:N	2.47	0.47
55:BW:11:SER:HA	55:BW:13:LEU:HD13	1.96	0.47
18:AS:86:LEU:HB3	18:AS:87:PRO:CD	2.44	0.47
4:AD:169:LYS:HZ3	4:AD:169:LYS:N	1.99	0.47
2:AA:2246:G:O2'	2:AA:2247:A:C5'	2.63	0.47
37:BE:127:ILE:C	37:BE:129:GLU:H	2.16	0.47
48:BP:69:GLU:HA	48:BP:72:ALA:HB2	1.95	0.47
24:A0:16:HIS:O	24:A0:17:ARG:C	2.51	0.47
24:A0:20:LEU:HD13	24:A0:21:TYR:N	2.30	0.47
24:A0:29:LEU:N	24:A0:29:LEU:HD22	2.28	0.47
24:A0:76:VAL:HG12	24:A0:77:ARG:CG	2.44	0.47
24:A0:79:LEU:CD2	24:A0:80:PHE:HA	2.32	0.47
24:A0:83:ILE:O	24:A0:86:ARG:N	2.47	0.47
25:A1:107:LYS:O	25:A1:111:ASP:OD1	2.32	0.47
26:A2:72:ARG:O	26:A2:88:GLN:NE2	2.35	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:A2:90:PHE:N	26:A2:90:PHE:CD1	2.80	0.47
26:A2:61:VAL:CG1	26:A2:95:ILE:CG2	2.87	0.47
27:A3:28:GLY:HA3	27:A3:60:PHE:CB	2.39	0.47
28:A4:63:PHE:O	28:A4:66:SER:N	2.48	0.47
28:A4:5:LEU:O	28:A4:7:PRO:HD2	2.14	0.47
29:A5:51:TYR:O	29:A5:52:TYR:HB2	2.13	0.47
31:A7:11:LYS:O	31:A7:14:LYS:N	2.47	0.47
2:AA:1034:G:O5'	33:A9:18:ARG:CZ	2.63	0.47
2:AA:1054:A:C6	2:AA:1055:G:O6	2.66	0.47
2:AA:1062:G:H22	11:AL:92:PRO:CG	2.25	0.47
2:AA:1111:A:H8	2:AA:1111:A:O5'	1.97	0.47
2:AA:1156:A:H2	25:A1:51:ARG:HH21	1.59	0.47
2:AA:974:G:P	2:AA:1188:U:C5	3.07	0.47
2:AA:819:A:H62	2:AA:1188:U:H3	1.62	0.47
2:AA:118:A:H2'	2:AA:177:G:H21	1.78	0.47
2:AA:1193:G:H2'	2:AA:1194:A:H5'	1.95	0.47
2:AA:1270:C:C4'	2:AA:1271:G:C5'	2.64	0.47
2:AA:1346:G:H2'	2:AA:1347:G:H8	1.79	0.47
2:AA:1424:G:C2'	2:AA:1425:G:O5'	2.61	0.47
2:AA:1458:C:O2'	2:AA:1459:G:N1	2.45	0.47
2:AA:1474:C:H2'	2:AA:1475:G:N7	2.29	0.47
2:AA:1479:G:N1	2:AA:1514:U:N3	2.60	0.47
2:AA:1518:C:O2	2:AA:1519:G:H1'	2.14	0.47
2:AA:1571:A:H2'	2:AA:1572:A:OP2	2.14	0.47
2:AA:1605:C:H3'	2:AA:1606:G:H8	1.79	0.47
2:AA:1612:C:N3	31:A7:3:ARG:NH1	2.63	0.47
2:AA:1630:G:H1	2:AA:1636:C:N4	2.12	0.47
2:AA:1648:C:C2	2:AA:1649:G:N7	2.83	0.47
2:AA:1701:A:C2'	2:AA:1702:G:C5'	2.88	0.47
2:AA:1708:C:H42	2:AA:1750:G:H1	1.62	0.47
2:AA:1771:C:C2'	2:AA:1772:G:O5'	2.62	0.47
2:AA:17:G:O3'	25:A1:26:GLY:HA3	2.14	0.47
2:AA:1815:A:O2'	2:AA:1816:G:C4'	2.63	0.47
2:AA:1820:U:O2'	2:AA:1821:A:OP2	2.31	0.47
2:AA:1827:C:O2	2:AA:1828:G:C4'	2.62	0.47
2:AA:1864:U:C2'	2:AA:1869:G:C5'	2.83	0.47
2:AA:1915:U:O2	2:AA:1915:U:C2'	2.62	0.47
2:AA:1916:A:OP2	2:AA:1916:A:H8	1.97	0.47
2:AA:203:C:OP2	2:AA:203:C:C6	2.67	0.47
2:AA:2103:C:H2'	2:AA:2104:G:C8	2.36	0.47
2:AA:2151:G:N1	2:AA:2152:G:C2	2.82	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2188:C:H5''	2:AA:2189:U:OP2	2.14	0.47
2:AA:2193:G:C6	2:AA:2194:G:N7	2.82	0.47
2:AA:2195:C:H6	2:AA:2195:C:C5'	2.27	0.47
2:AA:2206:C:H2'	2:AA:2207:C:C6	2.49	0.47
2:AA:2231:C:C2'	2:AA:2232:U:H6	2.09	0.47
2:AA:2259:G:O4'	2:AA:2427:C:C6	2.66	0.47
2:AA:2266:A:H5'	2:AA:2267:A:C5	2.49	0.47
2:AA:2287:A:C4	2:AA:2289:G:C8	3.02	0.47
2:AA:2349:G:C6	2:AA:2350:C:C6	3.02	0.47
2:AA:2415:G:H2'	2:AA:2415:G:N3	2.30	0.47
2:AA:2589:A:C6	2:AA:2590:A:C5	3.02	0.47
2:AA:2657:A:C8	2:AA:2658:C:C6	3.02	0.47
2:AA:2694:G:H2'	2:AA:2695:C:C5'	2.44	0.47
2:AA:2707:G:H21	2:AA:2708:G:H1'	1.78	0.47
2:AA:2645:G:O2'	2:AA:2733:A:P	2.72	0.47
2:AA:2759:G:C2	2:AA:2760:C:C4	3.02	0.47
2:AA:527:C:H5	2:AA:2779:U:H3'	1.79	0.47
2:AA:2795:G:HO2'	2:AA:2797:U:H6	1.56	0.47
2:AA:27:G:C3'	2:AA:27:G:C8	2.96	0.47
2:AA:2888:C:C2	2:AA:2889:C:C6	3.03	0.47
2:AA:336:C:H2'	2:AA:337:C:C5'	2.44	0.47
2:AA:388:G:OP2	28:A4:29:PRO:CB	2.61	0.47
2:AA:412:A:N3	2:AA:413:C:C1'	2.76	0.47
2:AA:432:A:O2'	2:AA:433:C:H5'	2.13	0.47
2:AA:452:G:N2	2:AA:458:G:C2	2.83	0.47
2:AA:458:G:C5'	31:A7:39:ARG:HD2	2.44	0.47
2:AA:580:C:H6	2:AA:580:C:O5'	1.98	0.47
2:AA:64:A:C2	2:AA:65:C:C2	3.02	0.47
2:AA:776:G:C2	2:AA:793:A:N7	2.82	0.47
2:AA:879:G:N2	2:AA:880:G:H1'	2.29	0.47
2:AA:941:A:C2	2:AA:942:G:C1'	2.97	0.47
2:AA:946:G:C8	2:AA:946:G:C3'	2.98	0.47
2:AA:969:U:HO2'	2:AA:970:C:C4'	2.26	0.47
1:AB:100:G:O5'	1:AB:100:G:H8	1.96	0.47
1:AB:105:G:H2'	1:AB:106:G:C8	2.48	0.47
1:AB:82:G:HO2'	1:AB:83:G:C4'	2.27	0.47
4:AD:211:HIS:HD1	4:AD:212:HIS:N	2.12	0.47
5:AE:105:HIS:CE1	5:AE:108:LEU:HD21	2.49	0.47
5:AE:186:GLU:C	5:AE:187:HIS:CG	2.87	0.47
5:AE:226:HIS:N	5:AE:226:HIS:ND1	2.62	0.47
5:AE:270:ASP:O	5:AE:271:ILE:HG13	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:299:SER:C	5:AE:301:PRO:N	2.64	0.47
7:AG:14:ARG:CD	7:AG:14:ARG:H	2.25	0.47
7:AG:88:LEU:N	7:AG:89:PRO:CD	2.74	0.47
8:AH:107:GLY:O	8:AH:109:SER:N	2.39	0.47
8:AH:87:GLU:OE2	8:AH:162:ARG:HD2	2.14	0.47
8:AH:36:PHE:CD2	8:AH:71:LEU:CD2	2.97	0.47
8:AH:41:THR:CG2	8:AH:52:THR:HG21	2.39	0.47
12:AM:14:ALA:O	12:AM:15:ARG:CG	2.62	0.47
12:AM:4:ALA:HA	12:AM:109:TYR:OH	2.13	0.47
12:AM:74:ARG:O	12:AM:75:PRO:C	2.52	0.47
15:AP:49:VAL:HG23	15:AP:121:ASP:H	1.78	0.47
15:AP:121:ASP:OD2	15:AP:122:PHE:CE2	2.67	0.47
15:AP:48:ASN:OD1	15:AP:121:ASP:CB	2.61	0.47
15:AP:51:GLU:OE2	15:AP:148:ASN:HB2	2.15	0.47
15:AP:57:ARG:HB3	15:AP:60:ALA:HB2	1.96	0.47
15:AP:98:GLY:CA	35:BC:1:G:O2'	2.62	0.47
16:AQ:35:VAL:HG22	16:AQ:103:ASP:CG	2.34	0.47
16:AQ:90:LEU:CD2	16:AQ:93:GLN:NE2	2.78	0.47
18:AS:18:ARG:CG	18:AS:76:VAL:HG12	2.43	0.47
18:AS:59:VAL:CG2	18:AS:63:ASP:O	2.63	0.47
18:AS:69:LEU:HD23	18:AS:109:GLU:CA	2.43	0.47
19:AT:53:ASN:O	19:AT:54:THR:CG2	2.62	0.47
19:AT:73:ASP:O	19:AT:75:GLN:OE1	2.32	0.47
20:AU:41:ARG:C	20:AU:112:LEU:HB3	2.35	0.47
21:AV:100:THR:CA	21:AV:137:ASP:CG	2.71	0.47
21:AV:175:ARG:O	21:AV:176:LEU:HB2	2.14	0.47
23:AX:49:LYS:C	23:AX:51:ALA:N	2.68	0.47
34:BA:1160:G:N1	34:BA:1161:C:C5	2.83	0.47
34:BA:1223:C:C5'	34:BA:1224:G:H5''	2.44	0.47
34:BA:1288:A:C5	34:BA:1289:A:N7	2.82	0.47
34:BA:1310:G:C6	34:BA:1328:C:N4	2.82	0.47
34:BA:1326:C:OP2	56:BX:6:ARG:NE	2.47	0.47
34:BA:1371:G:H5''	44:BL:68:GLY:HA2	1.96	0.47
34:BA:1426:C:N3	34:BA:1427:U:C4	2.82	0.47
34:BA:1524:C:N3	34:BA:1525:G:N7	2.62	0.47
34:BA:190(C):C:N3	34:BA:190(D):U:O2	2.46	0.47
34:BA:253:U:C4	34:BA:273:A:N1	2.81	0.47
34:BA:306:G:C4	34:BA:307:C:C6	3.01	0.47
34:BA:38:G:C6	34:BA:397:A:C2	3.02	0.47
34:BA:373:A:N1	34:BA:482:A:N6	2.62	0.47
34:BA:528:C:H4'	34:BA:535:A:N6	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:544:G:N3	34:BA:545:C:C6	2.82	0.47
34:BA:55:A:C2'	34:BA:56:U:H5'	2.44	0.47
34:BA:667:G:H2'	34:BA:668:G:C8	2.48	0.47
35:BB:49:C:OP2	35:BB:49:C:O4'	2.32	0.47
37:BE:54:THR:HG23	37:BE:199:TYR:HB3	1.95	0.47
38:BF:15:THR:HG21	38:BF:181:ASN:CB	2.43	0.47
39:BG:126:ILE:HB	39:BG:132:ARG:HB2	1.97	0.47
39:BG:140:VAL:HG11	39:BG:185:PHE:HB2	1.96	0.47
39:BG:152:SER:O	39:BG:158:ILE:CG1	2.61	0.47
39:BG:205:GLU:O	39:BG:206:PHE:C	2.52	0.47
39:BG:20:TYR:O	39:BG:31:CYS:SG	2.72	0.47
34:BA:922:G:C5'	40:BH:19:MET:O	2.58	0.47
40:BH:72:GLN:O	40:BH:73:ASN:HB2	2.14	0.47
40:BH:84:PHE:HB3	40:BH:87:SER:O	2.14	0.47
42:BJ:100:ALA:O	42:BJ:103:TRP:HB2	2.14	0.47
42:BJ:113:GLU:OE1	42:BJ:118:VAL:C	2.52	0.47
42:BJ:129:GLU:CD	42:BJ:131:LYS:HE2	2.35	0.47
42:BJ:146:GLU:O	42:BJ:147:ALA:C	2.51	0.47
42:BJ:22:LEU:HD21	42:BJ:66:VAL:HG21	1.97	0.47
42:BJ:6:ARG:O	42:BJ:7:ALA:C	2.52	0.47
43:BK:44:PHE:CZ	43:BK:109:ILE:HG21	2.48	0.47
43:BK:82:HIS:NE2	43:BK:84:ARG:HB3	2.30	0.47
43:BK:92:ARG:HB3	43:BK:94:TYR:CE1	2.49	0.47
43:BK:89:PRO:CA	43:BK:92:ARG:NH2	2.77	0.47
44:BL:47:LEU:CD2	44:BL:50:LEU:HB2	2.41	0.47
44:BL:78:LYS:CD	44:BL:101:PHE:HE2	2.26	0.47
46:BN:59:TYR:O	46:BN:62:GLN:HB3	2.14	0.47
47:BO:104:VAL:HG12	47:BO:104:VAL:O	2.13	0.47
48:BP:77:ASN:HA	48:BP:80:ARG:CD	2.43	0.47
49:BQ:17:LYS:HG3	49:BQ:18:VAL:HG13	1.96	0.47
50:BR:49:ASP:CG	50:BR:52:SER:HB2	2.34	0.47
51:BS:51:VAL:O	51:BS:51:VAL:HG12	2.14	0.47
54:BV:15:LEU:CD1	54:BV:44:MET:HE1	2.45	0.47
54:BV:66:MET:HA	54:BV:69:HIS:CD2	2.50	0.47
54:BV:74:PHE:CD1	54:BV:74:PHE:N	2.82	0.47
35:BB:11:C:H42	35:BB:23:A:H61	1.63	0.47
23:AX:3:ARG:O	23:AX:59:VAL:O	2.32	0.47
27:A3:11:LYS:O	27:A3:12:ASN:O	2.32	0.47
24:A0:74:LYS:HB2	24:A0:74:LYS:HE2	1.62	0.47
25:A1:99:ALA:HB2	25:A1:106:PHE:CG	2.49	0.47
25:A1:14:HIS:O	25:A1:15:LYS:C	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A1:43:ALA:CA	25:A1:46:GLU:OE2	2.59	0.47
25:A1:65:ILE:HG12	25:A1:96:ALA:HB2	1.96	0.47
26:A2:22:VAL:CG1	26:A2:23:GLU:H	2.27	0.47
26:A2:7:THR:N	26:A2:9:GLY:O	2.44	0.47
28:A4:16:TYR:CE1	28:A4:37:SER:OG	2.61	0.47
29:A5:45:ILE:HG23	29:A5:52:TYR:HD1	1.77	0.47
30:A6:46:LYS:HB2	30:A6:47:HIS:ND1	2.30	0.47
2:AA:1024:G:H8	2:AA:1025:G:H5''	1.79	0.47
2:AA:1054:A:N6	2:AA:1104:C:H42	2.11	0.47
2:AA:1066:U:N3	2:AA:1069:A:OP1	2.47	0.47
2:AA:1019:U:P	2:AA:1120:G:H22	2.36	0.47
2:AA:71:A:P	2:AA:112:U:H2'	2.55	0.47
2:AA:1163:G:N2	2:AA:1164:G:C8	2.82	0.47
2:AA:1168:G:C2	2:AA:1182:A:C2	3.02	0.47
2:AA:1199:U:OP2	2:AA:1199:U:O4'	2.33	0.47
2:AA:1301:A:C3'	2:AA:1607:C:H41	2.26	0.47
2:AA:1353:A:N6	2:AA:1354:A:H62	2.13	0.47
2:AA:143:C:OP2	2:AA:143:C:C2	2.67	0.47
2:AA:1478:G:O2'	2:AA:1479:G:C5'	2.62	0.47
2:AA:154:G:N7	2:AA:173:G:N1	2.62	0.47
2:AA:1664:A:P	2:AA:1664:A:C8	3.07	0.47
2:AA:1670:C:C6	2:AA:1671:U:C5	3.02	0.47
2:AA:1672:C:O2'	2:AA:1673:U:P	2.73	0.47
2:AA:1805:U:OP2	2:AA:1805:U:C6	2.53	0.47
2:AA:1806:C:C2	2:AA:1807:G:C8	3.03	0.47
2:AA:1809:A:O2'	2:AA:1810:A:C5'	2.57	0.47
2:AA:1794:U:C2	2:AA:1825:A:N1	2.82	0.47
2:AA:1946:U:C2	2:AA:1947:C:C6	3.02	0.47
2:AA:2105:C:N3	2:AA:2106:G:N7	2.62	0.47
2:AA:2236:C:C5	2:AA:2237:G:C5	3.02	0.47
2:AA:2244:U:H2'	2:AA:2245:U:O5'	2.14	0.47
2:AA:234:C:H42	2:AA:430:G:H21	1.59	0.47
2:AA:240:G:OP1	2:AA:623:G:H5'	2.15	0.47
2:AA:2450:A:H2	2:AA:2451:A:H1'	1.80	0.47
2:AA:2568:C:O2'	2:AA:2569:G:H5'	2.13	0.47
2:AA:2579:C:H5''	2:AA:2579:C:H6	1.78	0.47
2:AA:2580:U:H5''	2:AA:2581:G:OP2	2.15	0.47
2:AA:2605:U:C2	2:AA:2606:C:H5	2.33	0.47
2:AA:1638:C:OP1	2:AA:2710:C:O2'	2.33	0.47
2:AA:2645:G:C4'	2:AA:2732:G:O2'	2.55	0.47
2:AA:2795:G:P	2:AA:2795:G:H3'	2.54	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2815:C:O2'	29:A5:43:HIS:CE1	2.68	0.47
2:AA:458:G:C2'	2:AA:469:G:C6	2.96	0.47
2:AA:717:G:N1	2:AA:718:A:C4	2.82	0.47
2:AA:967:C:H2'	2:AA:968:G:H8	1.80	0.47
1:AB:32:C:C3'	1:AB:33:G:H8	2.27	0.47
1:AB:77:U:H2'	1:AB:78:A:H8	1.76	0.47
1:AB:79:C:C2'	1:AB:80:U:H5'	2.44	0.47
3:AC:43:VAL:O	3:AC:172:HIS:HA	2.14	0.47
3:AC:214:VAL:CG2	3:AC:224:ILE:CD1	2.91	0.47
3:AC:5:LYS:NZ	3:AC:8:ARG:CB	2.71	0.47
3:AC:62:VAL:HB	3:AC:163:PHE:CE2	2.47	0.47
4:AD:108:ASN:O	4:AD:109:LEU:C	2.51	0.47
4:AD:130:PRO:HB2	4:AD:132:GLU:CB	2.45	0.47
4:AD:134:ILE:HG23	4:AD:163:VAL:HG21	1.97	0.47
5:AE:239:GLY:O	5:AE:240:PRO:C	2.51	0.47
5:AE:202:ALA:O	5:AE:309:PRO:HA	2.14	0.47
6:AF:22:PHE:HZ	6:AF:115:LEU:HD12	1.79	0.47
6:AF:240:LEU:O	6:AF:243:VAL:CA	2.63	0.47
6:AF:52:ALA:HA	6:AF:55:ARG:HH21	1.80	0.47
2:AA:1255:U:H3	6:AF:66:GLY:HA2	1.80	0.47
6:AF:93:LYS:C	6:AF:95:GLU:H	2.07	0.47
11:AL:55:PRO:CD	11:AL:73:PRO:HA	2.44	0.47
12:AM:53:ILE:HG22	12:AM:54:VAL:N	2.28	0.47
15:AP:41:THR:HG21	15:AP:126:VAL:C	2.35	0.47
15:AP:45:GLN:OE1	15:AP:153:PRO:HD2	2.14	0.47
16:AQ:74:PRO:HG3	16:AQ:114:LYS:CE	2.40	0.47
18:AS:14:PRO:HG3	18:AS:101:SER:OG	2.13	0.47
18:AS:43:GLY:O	18:AS:44:ALA:C	2.52	0.47
20:AU:43:ASN:ND2	20:AU:101:LEU:CD2	2.77	0.47
20:AU:42:VAL:CG1	20:AU:43:ASN:N	2.58	0.47
20:AU:55:PHE:CD1	20:AU:89:ARG:NH1	2.82	0.47
22:AW:30:ALA:O	22:AW:34:GLN:N	2.47	0.47
1:AB:83:G:C5'	23:AX:52:HIS:CD2	2.98	0.47
36:B1:60:A:HO2'	36:B1:61:U:P	2.36	0.47
36:B1:69:A:C3'	36:B1:69:A:N3	2.77	0.47
34:BA:1048:G:N1	34:BA:1209:C:N4	2.26	0.47
34:BA:108:G:OP1	34:BA:326:G:N2	2.48	0.47
34:BA:1134:G:C2	34:BA:1141:C:C4	3.02	0.47
34:BA:1145:C:O2'	34:BA:1146:A:P	2.69	0.47
34:BA:11:G:N2	34:BA:24:U:C6	2.82	0.47
34:BA:120:A:C8	34:BA:120:A:O5'	2.67	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1226:C:H2'	48:BP:104:ARG:O	2.15	0.47
34:BA:1256:A:C2	34:BA:1258:G:C2	3.02	0.47
34:BA:1316:G:H8	34:BA:1316:G:P	2.36	0.47
34:BA:1323:G:O2'	34:BA:1324:A:H5'	2.15	0.47
34:BA:1376:U:H6	34:BA:1376:U:O5'	1.97	0.47
34:BA:1433:A:C6	34:BA:1434:A:C4	3.02	0.47
34:BA:160:A:H62	34:BA:161:A:N6	2.12	0.47
34:BA:162:A:C3'	34:BA:163:C:H5'	2.43	0.47
34:BA:176:C:C2	34:BA:177:C:C6	3.03	0.47
34:BA:228:A:C2'	34:BA:229:U:C5'	2.91	0.47
34:BA:258:G:C2	34:BA:259:G:C8	3.01	0.47
34:BA:279:A:H1'	34:BA:281:G:N2	2.24	0.47
34:BA:299:G:N2	34:BA:300:A:C2	2.82	0.47
34:BA:398:C:O2'	34:BA:399:G:H5'	2.15	0.47
34:BA:218:C:H5'	34:BA:461:C:N4	2.30	0.47
34:BA:551:U:H5'	47:BO:119:LYS:HE3	1.94	0.47
34:BA:621:A:C6	34:BA:622:A:N6	2.82	0.47
34:BA:717:C:H2'	34:BA:734:G:H5'	1.95	0.47
34:BA:763:G:O2'	34:BA:764:C:C5'	2.62	0.47
34:BA:783:C:O2'	34:BA:784:C:H5'	2.12	0.47
34:BA:803:G:C6	34:BA:804:U:C2	3.02	0.47
34:BA:819:A:C5'	34:BA:820:U:OP2	2.62	0.47
34:BA:22:G:C4'	34:BA:885:G:C1'	2.93	0.47
34:BA:908:A:N1	34:BA:909:A:N6	2.63	0.47
35:BC:34:G:N2	36:B1:62:G:N1	2.59	0.47
35:BC:63:C:O2'	35:BC:64:A:O5'	2.32	0.47
37:BE:87:ARG:C	37:BE:89:GLY:N	2.67	0.47
38:BF:182:ILE:CA	38:BF:204:LEU:HG	2.42	0.47
38:BF:38:ARG:HH11	38:BF:38:ARG:HG3	1.79	0.47
39:BG:19:LEU:N	39:BG:33:MET:HE1	2.30	0.47
39:BG:52:SER:O	39:BG:54:TYR:N	2.47	0.47
41:BI:100:ASN:HD21	53:BU:23:LYS:C	2.18	0.47
41:BI:10:LEU:CD1	41:BI:10:LEU:N	2.73	0.47
41:BI:15:ASP:N	41:BI:18:GLN:NE2	2.62	0.47
41:BI:28:ARG:CG	41:BI:28:ARG:NH1	2.74	0.47
34:BA:824:C:C1'	43:BK:1:MET:N	2.78	0.47
43:BK:26:VAL:HG13	43:BK:27:PRO:CD	2.44	0.47
45:BM:8:LEU:HD22	45:BM:94:VAL:HG11	1.94	0.47
46:BN:27:ASN:OD1	46:BN:45:GLY:HA3	2.14	0.47
46:BN:48:ILE:HD13	46:BN:63:LEU:HB3	1.96	0.47
47:BO:61:THR:C	47:BO:62:SER:HG	2.16	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BO:93:LEU:HG	47:BO:93:LEU:O	2.14	0.47
48:BP:90:LEU:O	48:BP:93:ARG:N	2.47	0.47
49:BQ:14:PRO:CG	49:BQ:17:LYS:HA	2.44	0.47
49:BQ:26:ARG:HH11	49:BQ:47:LEU:HG	1.79	0.47
51:BS:8:ARG:CG	51:BS:15:PRO:HB3	2.44	0.47
52:BT:33:GLY:O	52:BT:34:LYS:C	2.53	0.47
52:BT:74:LEU:HD22	52:BT:74:LEU:O	2.14	0.47
53:BU:67:ALA:HA	53:BU:70:ILE:HG13	1.95	0.47
53:BU:76:LEU:CD2	53:BU:76:LEU:H	2.26	0.47
53:BU:82:THR:O	53:BU:83:GLU:CB	2.62	0.47
34:BA:323:U:H4'	55:BW:22:ARG:HB2	1.96	0.47
55:BW:45:GLN:NE2	55:BW:91:LEU:HD21	2.28	0.47
55:BW:79:ARG:CG	55:BW:79:ARG:HH11	2.27	0.47
56:BX:12:LYS:N	56:BX:12:LYS:HD2	2.29	0.47
35:BB:1:G:N3	35:BB:1:G:H2'	2.28	0.47
2:AA:1050:A:N1	2:AA:2751:G:C5	2.82	0.47
8:AH:168:VAL:CG1	8:AH:169:ARG:H	2.14	0.47
27:A3:4:LYS:HZ3	27:A3:11:LYS:NZ	2.11	0.47
24:A0:87:TYR:CD2	24:A0:87:TYR:N	2.80	0.47
24:A0:92:GLY:HA2	24:A0:94:TYR:CE1	2.49	0.47
25:A1:101:ARG:HB2	26:A2:13:ARG:HH21	1.80	0.47
25:A1:20:ARG:HH12	26:A2:75:LYS:CE	2.27	0.47
27:A3:36:ILE:O	27:A3:36:ILE:CG2	2.62	0.47
27:A3:24:LYS:HG2	27:A3:56:ASP:CG	2.34	0.47
27:A3:39:ARG:NH1	27:A3:69:PHE:CE1	2.83	0.47
28:A4:56:VAL:CG1	28:A4:57:ASP:N	2.48	0.47
29:A5:4:HIS:CB	29:A5:5:PRO:CD	2.92	0.47
2:AA:1006:C:O2	2:AA:1006:C:H2'	2.13	0.47
2:AA:1057:A:C2	2:AA:1058:G:N7	2.83	0.47
2:AA:1189:A:OP2	2:AA:1190:G:N7	2.48	0.47
2:AA:1223:C:N4	2:AA:1227:A:H61	2.12	0.47
2:AA:1271:G:C3'	2:AA:1271:G:C8	2.97	0.47
2:AA:1317:A:C3'	2:AA:1317:A:C8	2.98	0.47
2:AA:1344:G:C6	2:AA:1385:G:C8	3.03	0.47
2:AA:1475:G:H21	2:AA:1476:C:C5'	2.28	0.47
2:AA:697:C:P	2:AA:1555:G:H22	2.38	0.47
2:AA:1582:C:C2	2:AA:1583:A:N3	2.83	0.47
2:AA:1625:C:H2'	2:AA:1626:G:H4'	1.85	0.47
2:AA:1637:A:C2	2:AA:1638:C:N3	2.82	0.47
2:AA:178:G:C6	2:AA:179:G:N7	2.82	0.47
2:AA:48:G:H1'	2:AA:178:G:N2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1799:G:C6	4:AD:177:SER:CB	2.89	0.47
2:AA:1818:U:O4	4:AD:66:PHE:CE1	2.66	0.47
2:AA:1855:G:C8	2:AA:1855:G:O5'	2.57	0.47
2:AA:1904:G:C2'	2:AA:1905:C:O5'	2.63	0.47
2:AA:1926:U:C5	2:AA:1928:A:OP2	2.68	0.47
2:AA:1955:U:C2'	2:AA:1956:U:OP1	2.61	0.47
2:AA:2026:C:H2'	2:AA:2026:C:O2	2.15	0.47
2:AA:2067:G:C5'	2:AA:2068:U:OP2	2.59	0.47
2:AA:2207:C:O2'	2:AA:2208:U:H5''	2.14	0.47
2:AA:2256:G:C2	2:AA:2257:U:C2	3.03	0.47
2:AA:2259:G:H2'	2:AA:2260:C:C6	2.49	0.47
2:AA:2295:C:C6	2:AA:2338:G:N2	2.83	0.47
2:AA:2283:C:C6	2:AA:2389:G:N3	2.82	0.47
2:AA:2470:G:O6	2:AA:2481:G:N2	2.47	0.47
2:AA:2473:U:O2	2:AA:2473:U:C2'	2.63	0.47
2:AA:2478:A:N7	2:AA:2479:G:C8	2.83	0.47
2:AA:242:G:C2	2:AA:254:G:N7	2.82	0.47
2:AA:2551:C:H2'	2:AA:2552:U:O4'	2.15	0.47
2:AA:2595:G:H1'	2:AA:2599:G:N2	2.23	0.47
2:AA:270(J):G:C6	2:AA:270(K):C:C4	3.02	0.47
2:AA:270(R):G:N3	2:AA:270(R):G:H2'	2.28	0.47
2:AA:2756:U:N3	2:AA:2758:A:N6	2.62	0.47
2:AA:280:C:HO2'	2:AA:281:G:H3'	1.79	0.47
2:AA:2825:C:N3	2:AA:2826:A:C8	2.82	0.47
2:AA:2866:U:O2	2:AA:2868:A:C4'	2.61	0.47
2:AA:326:G:C2'	2:AA:327:G:O5'	2.63	0.47
2:AA:36:G:N3	2:AA:450:G:O2'	2.39	0.47
2:AA:38:A:C4	2:AA:39:C:C5	3.03	0.47
2:AA:426:C:H2'	2:AA:427:U:C5'	2.44	0.47
2:AA:443:A:H1'	2:AA:1201:C:C5'	2.43	0.47
2:AA:481:G:O2'	2:AA:482:A:C8	2.66	0.47
2:AA:489:G:N2	2:AA:491:G:C4	2.82	0.47
2:AA:69:C:H6	2:AA:69:C:OP2	1.96	0.47
2:AA:753:C:H2'	2:AA:754:C:H6	1.79	0.47
2:AA:774:A:O2'	2:AA:775:G:O5'	2.25	0.47
2:AA:782:A:C5'	2:AA:783:A:OP1	2.58	0.47
2:AA:80:G:H2'	2:AA:81:G:H5'	1.96	0.47
2:AA:823:G:N3	2:AA:824:A:N7	2.63	0.47
2:AA:83:G:C6	2:AA:102:G:C2'	2.95	0.47
2:AA:84:A:H2	2:AA:102:G:HO2'	1.62	0.47
2:AA:850:C:H2'	2:AA:851:U:C6	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:852:G:C2'	2:AA:853:G:O5'	2.63	0.47
2:AA:901:A:N7	2:AA:902:C:N4	2.62	0.47
2:AA:910:A:O2'	2:AA:911:A:H5'	2.14	0.47
2:AA:967:C:H2'	2:AA:968:G:C8	2.49	0.47
2:AA:969:U:O5'	2:AA:969:U:H6	1.97	0.47
2:AA:992:C:H2'	2:AA:993:G:H5''	1.96	0.47
1:AB:27:C:N3	1:AB:28:C:C2	2.82	0.47
3:AC:127:LEU:HD22	3:AC:130:ILE:CG2	2.41	0.47
3:AC:29:VAL:HG11	3:AC:41:VAL:HG21	1.96	0.47
4:AD:143:ILE:O	4:AD:152:GLN:C	2.53	0.47
5:AE:310:PHE:CD1	5:AE:310:PHE:N	2.81	0.47
5:AE:315:VAL:O	5:AE:316:ARG:C	2.53	0.47
6:AF:103:ASN:C	6:AF:107:ARG:HG3	2.35	0.47
6:AF:151:GLN:O	6:AF:154:VAL:CB	2.63	0.47
8:AH:35:THR:C	8:AH:36:PHE:CD1	2.88	0.47
10:AK:25:TYR:CA	10:AK:29:PHE:CE1	2.97	0.47
11:AL:132:ALA:HB1	11:AL:137:ILE:HB	1.97	0.47
12:AM:108:PRO:CD	12:AM:109:TYR:H	2.28	0.47
12:AM:44:ALA:O	12:AM:132:LEU:N	2.47	0.47
12:AM:58:GLU:CB	12:AM:61:VAL:HB	2.44	0.47
12:AM:87:LEU:CB	12:AM:98:PHE:CE1	2.98	0.47
13:AN:46:ALA:H	13:AN:54:LYS:HE2	1.80	0.47
16:AQ:41:LYS:HD3	16:AQ:41:LYS:O	2.15	0.47
20:AU:48:VAL:HG13	20:AU:97:ARG:N	2.29	0.47
21:AV:98:VAL:CG2	21:AV:134:LEU:HD22	2.44	0.47
21:AV:62:PHE:O	21:AV:85:MET:SD	2.72	0.47
21:AV:88:TYR:O	21:AV:91:PRO:HD3	2.15	0.47
21:AV:7:PRO:HG2	21:AV:9:THR:OG1	2.15	0.47
23:AX:40:THR:CG2	23:AX:43:ILE:HG12	2.44	0.47
34:BA:1536:C:N3	36:B1:54:G:C2	2.83	0.47
34:BA:1044:A:C2'	34:BA:1045:C:C5'	2.92	0.47
34:BA:1253:G:H2'	34:BA:1254:C:O4'	2.14	0.47
34:BA:1326:C:H5''	56:BX:19:GLY:CA	2.45	0.47
34:BA:1426:C:H2'	34:BA:1427:U:O5'	2.14	0.47
34:BA:1451:A:C8	34:BA:1451:A:O5'	2.67	0.47
34:BA:1502:A:C6	34:BA:1504:G:N2	2.83	0.47
34:BA:271:C:O2'	34:BA:272:C:C5'	2.62	0.47
34:BA:277:C:H5''	52:BT:68:ARG:NH1	2.29	0.47
34:BA:287:U:O2'	34:BA:288:A:C5'	2.62	0.47
34:BA:539:A:H2'	34:BA:540:G:C8	2.50	0.47
34:BA:560:U:C6	34:BA:566:G:C2	3.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:594:G:O6	34:BA:595:G:N2	2.47	0.47
34:BA:597:G:C2'	34:BA:598:U:C5'	2.92	0.47
34:BA:790:A:C6	34:BA:791:G:C6	3.03	0.47
34:BA:803:G:O2'	34:BA:804:U:H5'	2.14	0.47
34:BA:816:A:H2'	34:BA:817:C:OP2	2.15	0.47
34:BA:878:G:OP1	43:BK:88:LYS:HB2	2.14	0.47
34:BA:950:U:C2'	34:BA:951:G:C5'	2.87	0.47
35:BB:66:A:N6	35:BB:67:A:N6	2.62	0.47
35:BC:20:G:N3	35:BC:20:G:C3'	2.72	0.47
35:BC:9:A:N3	35:BC:46:G:C8	2.82	0.47
37:BE:154:LEU:HB3	37:BE:155:LEU:H	1.62	0.47
37:BE:189:ASP:OD1	37:BE:205:ASP:CG	2.53	0.47
37:BE:217:ARG:O	37:BE:220:ASP:CB	2.39	0.47
38:BF:191:THR:C	38:BF:193:TYR:N	2.66	0.47
34:BA:1057:G:H1'	38:BF:195:VAL:HG12	1.96	0.47
38:BF:95:THR:C	38:BF:97:LYS:N	2.68	0.47
39:BG:94:LEU:CD1	39:BG:200:GLU:OE1	2.60	0.47
39:BG:20:TYR:C	39:BG:31:CYS:SG	2.93	0.47
41:BI:53:ALA:HB3	41:BI:55:ASP:CG	2.34	0.47
41:BI:41:GLU:CG	41:BI:62:TRP:CE3	2.92	0.47
41:BI:3:ARG:HG3	41:BI:65:VAL:C	2.35	0.47
41:BI:76:ALA:HA	41:BI:79:LEU:HD11	1.96	0.47
42:BJ:114:ARG:O	42:BJ:115:ARG:HG3	2.13	0.47
42:BJ:42:ILE:HG23	42:BJ:117:ALA:N	2.30	0.47
42:BJ:51:GLN:OE1	42:BJ:51:GLN:HA	2.15	0.47
45:BM:33:GLN:O	45:BM:34:VAL:HB	2.13	0.47
45:BM:49:VAL:HG13	45:BM:50:ILE:H	1.79	0.47
34:BA:708:C:C5'	46:BN:37:GLY:CA	2.91	0.47
47:BO:117:ARG:HH11	47:BO:124:LYS:HD2	1.79	0.47
34:BA:33:A:O2'	47:BO:31:PRO:HB3	2.15	0.47
47:BO:7:ILE:HG22	52:BT:34:LYS:HE2	1.97	0.47
47:BO:86:ARG:HB3	47:BO:101:VAL:HG21	1.96	0.47
50:BR:64:ARG:O	50:BR:66:LEU:N	2.47	0.47
50:BR:70:LEU:O	50:BR:71:GLN:C	2.51	0.47
50:BR:76:GLU:C	50:BR:78:TYR:N	2.67	0.47
52:BT:59:ILE:CD1	52:BT:73:VAL:CA	2.92	0.47
53:BU:51:LEU:HD12	53:BU:51:LEU:N	2.27	0.47
55:BW:86:ARG:CG	55:BW:87:LYS:HG3	2.45	0.47
56:BX:5:ASP:OD1	56:BX:7:ARG:HG2	2.15	0.47
10:AK:79:ILE:HB	10:AK:145:VAL:CG2	2.32	0.47
2:AA:1041:C:C5	2:AA:1042:G:N7	2.82	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:B1:17:G:N2	36:B1:39:A:N6	2.59	0.47
3:AC:73:ARG:NE	3:AC:111:ASP:OD2	2.47	0.47
9:AI:55:GLU:O	9:AI:56:LYS:HB2	2.14	0.47
2:AA:533:G:OP2	25:A1:25:TRP:CD1	2.68	0.47
25:A1:41:ASN:ND2	25:A1:42:ALA:N	2.63	0.47
25:A1:47:TYR:OH	26:A2:76:SER:CA	2.63	0.47
26:A2:69:ILE:CG1	26:A2:89:ASN:O	2.63	0.47
27:A3:24:LYS:CE	27:A3:56:ASP:OD2	2.63	0.47
28:A4:11:PRO:O	28:A4:12:CYS:HB2	2.13	0.47
32:A8:9:MET:O	32:A8:14:ILE:CG1	2.63	0.47
32:A8:55:TRP:CZ3	32:A8:59:LYS:HE3	2.49	0.47
2:AA:1143:A:C2'	2:AA:1144:G:O5'	2.62	0.47
2:AA:1144:G:C4	2:AA:1145:C:C6	3.03	0.47
2:AA:1344:G:H22	2:AA:1404:C:H1'	1.79	0.47
2:AA:1366:A:N3	2:AA:1367:A:C8	2.82	0.47
2:AA:1472:A:H62	2:AA:1474:C:H42	1.61	0.47
2:AA:1492:G:N2	2:AA:1493:C:C4	2.83	0.47
2:AA:1640:C:H2'	2:AA:1641:A:O5'	2.13	0.47
2:AA:1672:C:C2'	2:AA:1673:U:C5'	2.90	0.47
2:AA:1668:A:C2	2:AA:1674:G:H1'	2.49	0.47
2:AA:1798:U:H3	2:AA:1821:A:N6	2.13	0.47
2:AA:1802:A:C8	2:AA:1817:G:N2	2.83	0.47
2:AA:1900:A:HO2'	2:AA:1901:A:P	2.35	0.47
2:AA:1907:G:H2'	2:AA:1908:C:H6	1.78	0.47
2:AA:2059:A:C2	2:AA:2503:A:C6	3.02	0.47
2:AA:2072:G:H2'	2:AA:2073:C:C6	2.44	0.47
2:AA:2104:G:N2	2:AA:2105:C:C2	2.82	0.47
2:AA:2132:U:C2	2:AA:2133:G:C2	3.03	0.47
2:AA:2276:G:C2	2:AA:2277:G:C8	3.02	0.47
2:AA:2371:G:HO2'	30:A6:47:HIS:CE1	2.23	0.47
2:AA:2403:C:O2	2:AA:2403:C:H2'	2.15	0.47
2:AA:2463:C:O2	2:AA:2487:G:N1	2.36	0.47
2:AA:2489:G:C5	2:AA:2490:G:C5	3.03	0.47
2:AA:2521:C:C2	2:AA:2544:G:N2	2.75	0.47
2:AA:2539:C:O2'	2:AA:2540:C:C5'	2.61	0.47
2:AA:2626:C:H3'	2:AA:2626:C:C6	2.49	0.47
2:AA:270(W):G:C2'	2:AA:270(X):G:H8	2.28	0.47
2:AA:2714:G:O6	2:AA:2715:C:C4	2.67	0.47
2:AA:2834:G:C6	2:AA:2879:C:O2	2.67	0.47
2:AA:2843:G:C4	2:AA:2844:G:C8	3.02	0.47
2:AA:336:C:C2'	2:AA:337:C:H5'	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:358:U:H5'	2:AA:358:U:C6	2.49	0.47
2:AA:412:A:H61	2:AA:2410:G:N2	2.11	0.47
2:AA:599:G:C4	2:AA:600:G:N7	2.82	0.47
2:AA:701:G:O2'	2:AA:702:G:C5'	2.63	0.47
2:AA:72:U:O2'	22:AW:54:ALA:CB	2.63	0.47
2:AA:72:U:O2	22:AW:54:ALA:HB1	2.15	0.47
2:AA:780:G:C6	2:AA:782:A:N1	2.83	0.47
2:AA:799:G:C8	2:AA:799:G:OP2	2.68	0.47
2:AA:800:A:HO2'	2:AA:801:G:P	2.37	0.47
2:AA:917:A:N7	2:AA:2268:A:C6	2.83	0.47
2:AA:974(A):C:H1'	2:AA:989:G:C2	2.49	0.47
1:AB:49:C:OP1	16:AQ:111:PRO:CD	2.62	0.47
1:AB:92:G:C6	1:AB:93:C:C4	3.02	0.47
3:AC:214:VAL:CG2	3:AC:224:ILE:HD11	2.45	0.47
4:AD:80:ILE:CB	4:AD:82:TYR:CE1	2.91	0.47
5:AE:42:ALA:N	5:AE:311:PHE:CZ	2.82	0.47
5:AE:44:TYR:CG	5:AE:307:LEU:O	2.68	0.47
6:AF:156:LEU:O	6:AF:159:ALA:CB	2.56	0.47
6:AF:158:GLU:CD	6:AF:158:GLU:H	2.18	0.47
6:AF:1:MET:SD	6:AF:23:GLU:OE2	2.72	0.47
7:AG:103:ASN:OD1	7:AG:133:ASN:CA	2.63	0.47
7:AG:53:LYS:HG2	7:AG:54:ALA:N	2.29	0.47
7:AG:28:GLY:CA	7:AG:69:ILE:CG2	2.89	0.47
8:AH:98:GLN:O	8:AH:99:GLY:C	2.53	0.47
9:AI:102:ILE:HD13	9:AI:118:LEU:CD1	2.44	0.47
9:AJ:15:VAL:CG2	9:AJ:49:ALA:N	2.78	0.47
11:AL:102:ARG:O	11:AL:103:LYS:C	2.52	0.47
11:AL:12:GLN:C	11:AL:13:LEU:HG	2.34	0.47
9:AJ:85:LEU:HD12	11:AL:57:VAL:CB	2.44	0.47
12:AM:19:MET:HE1	12:AM:22:VAL:CG1	2.42	0.47
12:AM:58:GLU:HG2	12:AM:61:VAL:HG11	1.97	0.47
13:AN:119:PRO:CG	13:AN:120:GLU:N	2.77	0.47
15:AP:9:SER:O	15:AP:11:LYS:HG2	2.14	0.47
15:AP:54:VAL:HG22	15:AP:55:GLN:H	1.79	0.47
15:AP:60:ALA:HB3	15:AP:61:LEU:CD2	2.45	0.47
15:AP:72:VAL:O	15:AP:73:GLN:HB2	2.15	0.47
16:AQ:119:GLN:C	16:AQ:121:GLY:N	2.65	0.47
16:AQ:66:LEU:O	16:AQ:67:ALA:O	2.32	0.47
19:AT:33:SER:N	19:AT:36:GLU:HG3	2.29	0.47
19:AT:53:ASN:C	19:AT:54:THR:HG23	2.35	0.47
19:AT:52:VAL:HG22	19:AT:66:VAL:HA	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AT:23:LYS:CG	19:AT:67:ARG:HA	2.43	0.47
20:AU:101:LEU:CD2	20:AU:103:LEU:HD21	2.44	0.47
20:AU:61:GLU:N	20:AU:74:VAL:HG13	2.30	0.47
21:AV:2:GLU:O	21:AV:54:ILE:HG23	2.14	0.47
21:AV:36:ARG:O	21:AV:37:LYS:HB2	2.15	0.47
21:AV:37:LYS:O	21:AV:40:ASP:HB2	2.14	0.47
34:BA:1049:U:C6	34:BA:1201:A:O4'	2.67	0.47
34:BA:1117:G:C5	34:BA:1184:G:N1	2.83	0.47
34:BA:1196:U:H6	34:BA:1196:U:H3'	1.80	0.47
34:BA:1202:G:N3	34:BA:1202:G:H2'	2.29	0.47
34:BA:1209:C:C2'	34:BA:1210:C:C5'	2.90	0.47
34:BA:1305:G:N2	34:BA:1331:G:N3	2.63	0.47
34:BA:1330:U:H3'	34:BA:1331:G:H8	1.79	0.47
34:BA:1336:C:C4'	34:BA:1337:G:C2	2.97	0.47
34:BA:1251:A:O4'	34:BA:1370:G:H4'	2.15	0.47
34:BA:1454:G:O2'	34:BA:1455:G:C5'	2.62	0.47
34:BA:1412:C:N3	34:BA:1489:G:C2	2.82	0.47
34:BA:1518:A:C2	34:BA:1519:A:C2	3.02	0.47
34:BA:191:G:O5'	34:BA:191:G:H8	1.98	0.47
34:BA:320:C:O2	34:BA:321:A:C1'	2.63	0.47
34:BA:463:A:OP2	51:BS:75:ARG:NH2	2.43	0.47
34:BA:503:C:O2	34:BA:510:A:H2	1.97	0.47
34:BA:644:G:C2'	34:BA:645:C:H5'	2.44	0.47
34:BA:694:A:C2	34:BA:695:A:H1'	2.50	0.47
34:BA:81:U:C2'	34:BA:83:U:OP2	2.56	0.47
34:BA:876:G:C4	34:BA:877:C:C5	3.01	0.47
34:BA:877:C:O2'	34:BA:878:G:H5'	2.14	0.47
34:BA:883:C:C4	34:BA:884:U:C4	3.03	0.47
34:BA:886:G:O6	34:BA:912:C:C4	2.67	0.47
34:BA:893:C:H2'	34:BA:894:G:C8	2.42	0.47
34:BA:935:A:H2'	34:BA:936:C:C6	2.49	0.47
35:BB:53:G:C4	35:BB:54:U:C6	3.01	0.47
37:BE:115:LEU:CD1	37:BE:145:LEU:HB3	2.37	0.47
37:BE:164:VAL:HG22	37:BE:165:VAL:HG22	1.96	0.47
37:BE:187:LEU:HD13	37:BE:187:LEU:O	2.14	0.47
37:BE:213:LEU:C	37:BE:213:LEU:CD2	2.83	0.47
38:BF:179:ARG:O	38:BF:180:ALA:C	2.51	0.47
38:BF:98:ASN:O	38:BF:99:VAL:CG1	2.62	0.47
39:BG:8:VAL:HG12	39:BG:11:LEU:HD12	1.95	0.47
39:BG:131:ARG:HB2	39:BG:132:ARG:H	1.53	0.47
39:BG:122:ARG:HA	39:BG:134:ASP:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BG:71:SER:O	39:BG:75:PHE:CB	2.62	0.47
40:BH:99:GLY:H	40:BH:117:ASP:HA	1.80	0.47
40:BH:131:ILE:O	40:BH:132:ALA:C	2.52	0.47
41:BI:11:ASN:ND2	41:BI:13:ASN:ND2	2.53	0.47
41:BI:40:VAL:O	41:BI:40:VAL:HG22	2.14	0.47
41:BI:75:LEU:O	41:BI:75:LEU:HD22	2.14	0.47
41:BI:8:ILE:HG23	41:BI:87:ARG:O	2.15	0.47
41:BI:99:ALA:O	41:BI:100:ASN:O	2.32	0.47
42:BJ:115:ARG:O	42:BJ:118:VAL:HG23	2.15	0.47
42:BJ:85:TYR:HD2	42:BJ:85:TYR:N	2.13	0.47
43:BK:109:ILE:CD1	43:BK:137:VAL:HB	2.45	0.47
43:BK:74:PRO:O	43:BK:75:ARG:O	2.32	0.47
44:BL:71:SER:O	44:BL:74:ILE:N	2.47	0.47
44:BL:73:GLN:O	44:BL:77:ILE:HG13	2.14	0.47
45:BM:25:GLU:CA	45:BM:28:ARG:HB2	2.44	0.47
46:BN:116:HIS:O	46:BN:117:ASN:CB	2.63	0.47
51:BS:49:LEU:HD21	51:BS:51:VAL:CG2	2.44	0.47
51:BS:52:ASP:OD2	51:BS:54:GLU:N	2.47	0.47
51:BS:58:TYR:O	51:BS:61:SER:HB3	2.15	0.47
34:BA:275:G:H4'	52:BT:14:LYS:HB3	1.97	0.47
52:BT:82:MET:O	52:BT:85:VAL:HB	2.14	0.47
52:BT:95:TYR:C	52:BT:97:SER:N	2.67	0.47
34:BA:958:A:N3	54:BV:55:LYS:HB2	2.30	0.47
35:BB:9:A:N3	35:BB:45:G:C4	2.82	0.47
1:AB:12:C:H3'	27:A3:53:MET:CE	2.44	0.47
2:AA:1118:C:C2'	2:AA:1119:C:O4'	2.48	0.47
21:AV:10:PRO:CG	21:AV:11:LYS:N	2.70	0.47
2:AA:1294:U:O2'	24:A0:26:LYS:CD	2.60	0.47
25:A1:41:ASN:CG	25:A1:42:ALA:N	2.68	0.47
2:AA:973:A:N1	26:A2:81:ARG:N	2.63	0.47
27:A3:47:ALA:HB1	27:A3:49:GLN:HE22	1.80	0.47
27:A3:51:VAL:HG12	27:A3:51:VAL:O	2.14	0.47
28:A4:51:ASP:O	28:A4:52:THR:HG23	2.15	0.47
29:A5:28:PRO:O	29:A5:30:LEU:HG	2.15	0.47
2:AA:747:U:OP1	29:A5:2:ALA:HB3	2.15	0.47
29:A5:33:CYS:SG	29:A5:40:LYS:HG3	2.55	0.47
30:A6:12:MET:O	30:A6:13:GLU:HG3	2.14	0.47
30:A6:37:LEU:HD23	30:A6:51:ARG:HA	1.97	0.47
32:A8:23:MET:HE2	32:A8:48:PHE:HA	1.95	0.47
2:AA:1021:A:C8	2:AA:1021:A:C3'	2.97	0.47
2:AA:1058:G:C2'	2:AA:1059:G:O5'	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1059:G:N2	11:AL:131:THR:N	2.63	0.47
2:AA:1084:A:O4'	9:AI:38:ALA:HB2	2.13	0.47
2:AA:1254:A:C8	2:AA:1256:G:O4'	2.67	0.47
2:AA:1264:G:OP1	29:A5:19:ARG:NH1	2.47	0.47
2:AA:1294:U:H5''	2:AA:1294:U:C6	2.50	0.47
2:AA:1314:C:N4	2:AA:1338:G:H1	2.12	0.47
2:AA:1340:U:C2'	2:AA:1341:U:OP1	2.63	0.47
2:AA:1366:A:C4	2:AA:1367:A:C8	3.02	0.47
2:AA:1372:U:H2'	2:AA:1373:A:O4'	2.14	0.47
2:AA:1344:G:N1	2:AA:1404:C:C2	2.82	0.47
2:AA:1465:G:C2'	2:AA:1466:G:O5'	2.62	0.47
2:AA:1594:G:H2'	2:AA:1595:G:O4'	2.15	0.47
2:AA:1666:G:H2'	2:AA:1667:G:O4'	2.15	0.47
2:AA:1697:G:OP2	2:AA:1698:A:H3'	2.14	0.47
2:AA:1788:C:C6	2:AA:1788:C:O5'	2.64	0.47
2:AA:182:A:N3	2:AA:183:C:C6	2.83	0.47
2:AA:1886:C:H2'	2:AA:1887:C:H6	1.79	0.47
2:AA:1964:G:C6	2:AA:1967:C:H5	2.33	0.47
2:AA:1969:A:C5'	2:AA:1970:A:OP1	2.63	0.47
2:AA:530:G:C2	2:AA:2021:C:C6	3.03	0.47
2:AA:2078:C:H1'	2:AA:2434:A:C2	2.50	0.47
2:AA:2287:A:C5	2:AA:2289:G:C4	3.02	0.47
2:AA:2317:C:C5'	7:AG:150:SER:CA	2.86	0.47
2:AA:2404:C:C4	2:AA:2414:G:N2	2.83	0.47
2:AA:2456:C:C2'	2:AA:2457:U:H5'	2.45	0.47
2:AA:2460:U:C5	2:AA:2461:C:C4	3.02	0.47
2:AA:2478:A:H3'	2:AA:2478:A:H8	1.80	0.47
2:AA:2536:G:C5	2:AA:2537:U:C4	3.02	0.47
2:AA:2582:G:C2'	2:AA:2583:G:C5'	2.88	0.47
2:AA:2617:C:C2	2:AA:2618:G:H8	2.32	0.47
2:AA:2658:C:C2'	2:AA:2659:G:C5'	2.75	0.47
2:AA:2532:G:N2	2:AA:2662:A:N6	2.63	0.47
2:AA:2670:A:H5''	2:AA:2670:A:C8	2.50	0.47
2:AA:2740:A:C5	2:AA:2741:A:C6	3.03	0.47
2:AA:285:C:H5''	2:AA:286:C:OP2	2.14	0.47
2:AA:332:A:OP2	2:AA:332:A:H3'	2.15	0.47
2:AA:340:A:P	2:AA:340:A:H8	2.37	0.47
2:AA:357:A:C5	2:AA:358:U:C6	3.03	0.47
2:AA:576:U:C2	2:AA:577:G:N7	2.83	0.47
2:AA:576:U:C2'	2:AA:577:G:H5'	2.44	0.47
2:AA:585:G:C2'	2:AA:586:A:H8	2.26	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:59:U:C1'	2:AA:73:A:C5	2.98	0.47
2:AA:656:G:C2'	2:AA:657:U:O4'	2.56	0.47
2:AA:675:A:OP2	2:AA:804:A:N6	2.42	0.47
2:AA:714:U:C6	2:AA:714:U:O5'	2.67	0.47
2:AA:734:A:C2	2:AA:735:A:N9	2.83	0.47
2:AA:784:A:C5	2:AA:792:G:C4	3.03	0.47
2:AA:906:G:C2	2:AA:907:U:C6	3.02	0.47
1:AB:58:A:C8	1:AB:58:A:O5'	2.57	0.47
1:AB:75:G:H1'	21:AV:22:VAL:CG2	2.44	0.47
4:AD:65:ASP:OD2	4:AD:101:ARG:HD3	2.14	0.47
4:AD:142:ASN:HB2	4:AD:190:THR:N	2.28	0.47
5:AE:41:PHE:CZ	5:AE:173:ARG:HD2	2.49	0.47
5:AE:222:ARG:C	5:AE:223:LYS:O	2.53	0.47
6:AF:167:ASP:O	6:AF:168:ARG:HG3	2.15	0.47
6:AF:197:SER:CA	6:AF:215:ALA:HB2	2.44	0.47
6:AF:241:ALA:O	6:AF:242:GLU:C	2.52	0.47
6:AF:32:GLY:HA2	6:AF:35:VAL:CG2	2.44	0.47
2:AA:451:C:P	6:AF:49:ASP:HB2	2.55	0.47
6:AF:82:GLN:N	6:AF:87:ARG:CD	2.68	0.47
7:AG:135:VAL:HA	7:AG:139:TYR:CE2	2.50	0.47
10:AK:7:LYS:O	10:AK:12:LYS:C	2.52	0.47
11:AL:75:ALA:CA	11:AL:112:LYS:NZ	2.76	0.47
11:AL:96:ILE:O	11:AL:97:VAL:CG1	2.62	0.47
2:AA:7:G:H5'	12:AM:6:PHE:HD2	1.79	0.47
13:AN:35:ILE:CA	13:AN:62:VAL:HB	2.45	0.47
13:AN:11:ALA:O	13:AN:98:ILE:C	2.53	0.47
14:AO:96:VAL:HG23	14:AO:100:ALA:N	2.30	0.47
15:AP:121:ASP:C	15:AP:122:PHE:CD2	2.88	0.47
15:AP:124:ALA:HB2	15:AP:136:TRP:CD1	2.49	0.47
15:AP:49:VAL:HG13	15:AP:50:VAL:H	1.77	0.47
15:AP:56:ILE:C	15:AP:61:LEU:HD11	2.34	0.47
15:AP:67:ALA:HB2	15:AP:70:ARG:HH11	1.76	0.47
16:AQ:22:GLN:O	16:AQ:23:ARG:C	2.51	0.47
19:AT:1:SER:O	19:AT:2:TRP:HB3	2.14	0.47
19:AT:23:LYS:HD3	19:AT:65:VAL:HG11	1.97	0.47
20:AU:11:GLN:HG3	20:AU:21:LYS:HZ2	1.79	0.47
20:AU:16:LEU:O	20:AU:19:ARG:CB	2.62	0.47
20:AU:74:VAL:HB	20:AU:91:LEU:CD1	2.44	0.47
2:AA:874:G:H5'	21:AV:115:ILE:CD1	2.45	0.47
21:AV:125:PRO:HG3	21:AV:130:ILE:HG22	1.96	0.47
21:AV:131:PRO:C	21:AV:133:GLU:H	2.16	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:131:PRO:C	21:AV:133:GLU:N	2.67	0.47
21:AV:100:THR:CG2	21:AV:137:ASP:CG	2.83	0.47
21:AV:145:ASP:C	21:AV:146:HIS:CD2	2.88	0.47
21:AV:53:ASP:CB	21:AV:62:PHE:O	2.61	0.47
2:AA:932:G:H5'	23:AX:24:LYS:CE	2.45	0.47
23:AX:25:ALA:O	23:AX:26:LEU:C	2.53	0.47
34:BA:789:U:O2'	36:B1:59:A:C2	2.63	0.47
34:BA:1068:G:HO2'	34:BA:1069:C:H5'	1.79	0.47
34:BA:1154:G:C4	34:BA:1155:G:N7	2.83	0.47
34:BA:1220:G:N2	34:BA:1221:G:C4	2.82	0.47
34:BA:1268:A:O2'	34:BA:1326:C:H4'	2.15	0.47
34:BA:1380:U:O2'	34:BA:1381:U:C5'	2.62	0.47
34:BA:1468:A:C3'	34:BA:1468:A:C8	2.98	0.47
34:BA:1494:G:N1	34:BA:1495:U:O4	2.47	0.47
34:BA:1507:A:C2	34:BA:1530:G:H1'	2.49	0.47
34:BA:1539:C:N3	34:BA:1540:U:C5	2.83	0.47
34:BA:67:C:O2	34:BA:171:A:C2	2.67	0.47
34:BA:17:U:H1'	34:BA:1079:G:N2	2.30	0.47
34:BA:402:G:O2'	34:BA:620:C:N4	2.40	0.47
34:BA:544:G:C4	34:BA:545:C:C5	3.02	0.47
34:BA:28:G:H1	34:BA:555:C:N4	2.11	0.47
34:BA:592:G:C6	34:BA:593:G:N7	2.83	0.47
34:BA:622:A:C8	34:BA:623:C:C6	3.02	0.47
34:BA:595:G:C4	34:BA:641:U:N3	2.82	0.47
34:BA:691:G:C5	46:BN:26:ASN:OD1	2.68	0.47
34:BA:718:G:C5	46:BN:116:HIS:CD2	3.02	0.47
34:BA:827:U:C2	34:BA:870:U:C4	3.03	0.47
34:BA:939:G:OP1	42:BJ:102:ARG:NH1	2.47	0.47
35:BB:49:C:C2	35:BB:66:A:N1	2.83	0.47
38:BF:142:MET:SD	38:BF:142:MET:O	2.73	0.47
39:BG:26:CYS:HA	39:BG:31:CYS:CA	2.40	0.47
40:BH:79:GLU:N	40:BH:79:GLU:CD	2.67	0.47
42:BJ:151:TYR:O	42:BJ:152:ALA:C	2.52	0.47
42:BJ:85:TYR:CD2	42:BJ:85:TYR:N	2.82	0.47
34:BA:642:A:C2	43:BK:114:THR:CA	2.98	0.47
43:BK:4:ASP:CB	43:BK:6:ILE:HG22	2.44	0.47
44:BL:33:PHE:CZ	44:BL:37:PHE:CE1	3.01	0.47
45:BM:9:ARG:HH11	45:BM:9:ARG:CB	2.28	0.47
47:BO:62:SER:HB3	47:BO:64:TYR:CD1	2.50	0.47
49:BQ:10:ALA:C	49:BQ:12:ARG:N	2.68	0.47
50:BR:64:ARG:O	50:BR:65:ARG:C	2.51	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BS:46:PRO:CG	51:BS:47:ASP:N	2.59	0.47
52:BT:45:HIS:CE1	52:BT:47:PRO:CA	2.97	0.47
52:BT:60:ILE:HD13	52:BT:62:SER:CB	2.45	0.47
53:BU:86:VAL:O	53:BU:87:ARG:CG	2.61	0.47
34:BA:176:C:H5''	55:BW:29:LYS:HZ3	1.79	0.47
55:BW:83:ARG:O	55:BW:84:LEU:C	2.52	0.47
24:A0:20:LEU:HD13	24:A0:20:LEU:O	2.14	0.47
24:A0:24:GLN:HE22	24:A0:36:THR:HG23	1.78	0.47
24:A0:93:GLY:O	24:A0:95:THR:N	2.47	0.47
25:A1:74:MET:HE2	25:A1:117:ARG:NH2	2.29	0.47
25:A1:93:LYS:N	26:A2:10:LYS:NZ	2.56	0.47
26:A2:20:ILE:HG12	26:A2:67:LYS:HZ2	1.75	0.47
26:A2:75:LYS:CE	26:A2:75:LYS:HA	2.18	0.47
28:A4:5:LEU:CA	28:A4:56:VAL:HA	2.42	0.47
28:A4:58:LYS:HB3	28:A4:59:PHE:CD1	2.50	0.47
30:A6:2:ALA:N	30:A6:11:LYS:CE	2.78	0.47
31:A7:12:ARG:O	31:A7:13:ALA:C	2.50	0.47
31:A7:26:SER:OG	31:A7:27:GLY:N	2.47	0.47
2:AA:1006:C:N1	2:AA:1137:G:N2	2.63	0.47
2:AA:1026:U:H6	2:AA:1026:U:C4'	2.27	0.47
2:AA:107:C:O2'	2:AA:108:U:O5'	2.32	0.47
2:AA:1108:U:O4	2:AA:1109:C:C4	2.67	0.47
2:AA:109:G:C2	2:AA:110:G:C1'	2.97	0.47
2:AA:1136:G:H21	2:AA:1137:G:C1'	2.26	0.47
2:AA:1179:C:O2'	2:AA:1180:C:C5'	2.62	0.47
2:AA:1266:G:C2'	2:AA:1267:U:OP2	2.62	0.47
2:AA:1288:U:O2	2:AA:1327:C:N3	2.48	0.47
2:AA:1342:A:C8	2:AA:1342:A:C3'	2.98	0.47
2:AA:1375:C:C6	2:AA:1376:C:H5	2.33	0.47
2:AA:1435:G:H2'	2:AA:1436:G:O4'	2.15	0.47
2:AA:143:C:C6	2:AA:143:C:C3'	2.97	0.47
2:AA:1553:A:C2	2:AA:1555:G:H5''	2.50	0.47
2:AA:1587:A:C2	2:AA:1588:C:N3	2.83	0.47
2:AA:1609:A:N6	2:AA:1616:A:C2	2.82	0.47
2:AA:1642:G:C6	2:AA:1643:G:N7	2.83	0.47
2:AA:1694:C:H2'	2:AA:1695:G:OP2	2.15	0.47
2:AA:1795:C:N4	2:AA:1824:G:N1	2.32	0.47
2:AA:1838:C:H2'	2:AA:1898:U:O4	2.13	0.47
2:AA:1859:A:H2'	2:AA:1860:G:C5'	2.38	0.47
2:AA:187:G:H2'	2:AA:188:G:H5'	1.97	0.47
2:AA:1935:G:C3'	2:AA:1962:C:H42	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1996:C:H2'	2:AA:1997:G:H4'	1.97	0.47
2:AA:2025:C:O2	2:AA:2025:C:C2'	2.62	0.47
2:AA:2027:G:H2'	2:AA:2028:U:C6	2.47	0.47
2:AA:2036:C:C6	2:AA:2036:C:H5'	2.46	0.47
2:AA:2082:A:N3	2:AA:2083:G:C8	2.83	0.47
2:AA:20:C:N4	2:AA:521:G:O6	2.48	0.47
2:AA:2122:U:OP2	2:AA:2122:U:C6	2.67	0.47
2:AA:2135:A:OP1	2:AA:2136:C:C6	2.67	0.47
2:AA:2140:C:OP2	2:AA:2140:C:O4'	2.32	0.47
2:AA:2225:A:H5'	2:AA:2226:C:O4'	2.15	0.47
2:AA:222:A:O2'	2:AA:223:A:P	2.72	0.47
2:AA:2243:U:C2'	2:AA:2244:U:H5'	2.43	0.47
2:AA:2284:C:HO2'	2:AA:2325:G:N2	2.12	0.47
2:AA:2356:C:H4'	27:A3:17:ASN:HB3	1.95	0.47
2:AA:23:G:C2	2:AA:24:G:N9	2.82	0.47
2:AA:2408:U:C2	2:AA:2409:G:N7	2.82	0.47
2:AA:2492:U:O2'	2:AA:2493:U:H5'	2.14	0.47
2:AA:2497:A:O2'	2:AA:2498:C:C6	2.68	0.47
2:AA:2551:C:H2'	2:AA:2552:U:C6	2.49	0.47
2:AA:2569:G:H2'	2:AA:2570:G:H8	1.79	0.47
2:AA:2606:C:C4'	2:AA:2606:C:C6	2.98	0.47
2:AA:270(H):C:H2'	2:AA:270(I):G:O4'	2.15	0.47
2:AA:271(C):U:H4'	2:AA:271:G:H5'	1.97	0.47
2:AA:283:A:C5	2:AA:284:U:H5	2.32	0.47
2:AA:2865:U:C4	2:AA:2866:U:C5	3.02	0.47
2:AA:319:C:C4	2:AA:320:A:C5	3.03	0.47
2:AA:388:G:N3	2:AA:390:A:C6	2.82	0.47
2:AA:390:A:C5'	2:AA:391:G:OP1	2.55	0.47
2:AA:1444:G:O3'	2:AA:444(A):A:O4'	2.32	0.47
2:AA:470:A:N3	2:AA:471:A:C1'	2.78	0.47
2:AA:495:G:C2	2:AA:496:G:H1'	2.50	0.47
2:AA:501:A:C5	2:AA:502:A:C6	3.03	0.47
2:AA:648:G:C2	2:AA:649:G:C8	3.03	0.47
2:AA:669:G:O2'	2:AA:801:G:N2	2.48	0.47
2:AA:668:G:C5	2:AA:670:A:C8	3.03	0.47
2:AA:587:C:C4	2:AA:671:C:C6	3.03	0.47
2:AA:672:C:H6	2:AA:672:C:O5'	1.98	0.47
2:AA:692:C:N4	2:AA:771:G:C6	2.83	0.47
2:AA:702:G:C2	2:AA:703:U:C2	3.02	0.47
2:AA:77:C:C6	2:AA:77:C:OP2	2.68	0.47
2:AA:687:C:C4	2:AA:788:A:C8	3.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:812:C:H1'	2:AA:1250:G:C2	2.50	0.47
2:AA:895:U:O2	2:AA:896:A:N6	2.48	0.47
2:AA:922:U:H2'	2:AA:923:C:C5	2.50	0.47
2:AA:924:C:O2'	2:AA:925:C:C5'	2.63	0.47
2:AA:970:C:O2	2:AA:971:C:C6	2.66	0.47
1:AB:57:A:H2'	1:AB:58:A:O4'	2.15	0.47
1:AB:8:U:O2'	1:AB:9:G:C8	2.67	0.47
3:AC:200:LYS:HG3	3:AC:208:PHE:CE1	2.50	0.47
4:AD:153:LEU:O	4:AD:154:VAL:C	2.53	0.47
2:AA:2634:G:H5'	5:AE:111:THR:CG2	2.45	0.47
5:AE:205:THR:HG23	5:AE:259:HIS:O	2.14	0.47
5:AE:94:ARG:HB3	5:AE:95:PRO:CD	2.44	0.47
8:AH:108:TYR:O	8:AH:109:SER:CB	2.62	0.47
9:AJ:91:LEU:O	9:AJ:94:LYS:N	2.47	0.47
2:AA:1059:G:H21	11:AL:131:THR:HG23	1.79	0.47
12:AM:41:ALA:O	12:AM:132:LEU:O	2.32	0.47
13:AN:45:ASP:HA	13:AN:54:LYS:CG	2.39	0.47
14:AO:70:ASP:O	14:AO:74:THR:CG2	2.59	0.47
15:AP:101:MET:HE2	15:AP:101:MET:HB3	1.87	0.47
15:AP:22:GLY:C	15:AP:23:ILE:HG13	2.34	0.47
16:AQ:117:ALA:O	16:AQ:118:ILE:C	2.51	0.47
16:AQ:97:VAL:O	16:AQ:98:GLU:CG	2.62	0.47
20:AU:30:ASP:OD2	20:AU:31:LEU:HD21	2.14	0.47
20:AU:77:VAL:HB	20:AU:91:LEU:HD21	1.96	0.47
20:AU:98:VAL:HG12	20:AU:99:THR:N	2.29	0.47
21:AV:16:GLU:OE1	21:AV:16:GLU:CA	2.61	0.47
23:AX:23:LEU:CD2	23:AX:53:LEU:CD1	2.93	0.47
34:BA:1045:C:C2	34:BA:1046:A:C8	3.03	0.47
34:BA:110:C:C3'	34:BA:111:G:H8	2.27	0.47
34:BA:1116:C:H2'	34:BA:1117:G:O4'	2.14	0.47
34:BA:1154:G:N3	34:BA:1155:G:C8	2.82	0.47
34:BA:959:A:C2	34:BA:1222:G:O4'	2.67	0.47
34:BA:1298:C:H3'	42:BJ:114:ARG:NH1	2.26	0.47
34:BA:1325:C:C2'	34:BA:1326:C:O5'	2.63	0.47
34:BA:1399:C:N3	34:BA:1401:G:C2	2.83	0.47
34:BA:1427:U:H2'	34:BA:1428:A:O5'	2.13	0.47
34:BA:1438:G:C6	34:BA:1439:C:C4	3.02	0.47
34:BA:1534:A:OP1	34:BA:1535:C:C5	2.68	0.47
34:BA:217:C:H2'	34:BA:218:C:C6	2.48	0.47
34:BA:250:A:O2'	34:BA:251:G:OP2	2.27	0.47
34:BA:285:G:C2	34:BA:286:G:C8	3.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:377:G:HO2'	34:BA:378:G:C5'	2.24	0.47
34:BA:457:C:N3	34:BA:458:C:C5	2.83	0.47
34:BA:458:C:C5	34:BA:459:G:N7	2.82	0.47
34:BA:507:C:OP2	34:BA:508:C:H3'	2.14	0.47
34:BA:29:G:N1	34:BA:555:C:N4	2.62	0.47
34:BA:579:G:C2'	34:BA:580:U:C5'	2.80	0.47
34:BA:723:U:O5'	34:BA:723:U:C5	2.68	0.47
34:BA:726:C:C2	34:BA:731:G:N2	2.79	0.47
34:BA:864:A:C3'	34:BA:864:A:C8	2.98	0.47
34:BA:17:U:H3	34:BA:918:A:H61	1.62	0.47
34:BA:943:U:H2'	34:BA:944:G:C5'	2.45	0.47
34:BA:969:A:C5'	34:BA:969:A:C8	2.96	0.47
35:BB:18:G:C6	35:BB:57:G:C2	2.88	0.47
35:BB:57:G:O2'	35:BB:58:A:C5'	2.62	0.47
35:BC:49:C:O2	35:BC:49:C:H2'	2.15	0.47
35:BC:75:C:H2'	35:BC:76:A:O3'	2.14	0.47
38:BF:123:GLN:HB3	38:BF:128:PHE:CD2	2.50	0.47
38:BF:157:ILE:HG21	38:BF:164:ARG:NE	2.23	0.47
38:BF:12:LEU:CB	38:BF:18:TRP:CZ3	2.98	0.47
38:BF:187:ALA:CB	38:BF:198:VAL:HG23	2.42	0.47
39:BG:100:ARG:NH1	39:BG:137:SER:HA	2.30	0.47
39:BG:102:ASP:OD1	39:BG:136:PRO:O	2.32	0.47
39:BG:155:LEU:O	39:BG:158:ILE:N	2.48	0.47
39:BG:177:ASP:O	39:BG:177:ASP:OD1	2.33	0.47
39:BG:15:GLU:CG	39:BG:63:LYS:HB3	2.43	0.47
39:BG:64:LEU:CD2	39:BG:67:ILE:HD12	2.40	0.47
43:BK:114:THR:HG23	43:BK:119:LEU:CD2	2.37	0.47
43:BK:77:GLU:O	43:BK:78:GLN:CB	2.62	0.47
43:BK:77:GLU:O	43:BK:78:GLN:CG	2.63	0.47
44:BL:2:GLU:O	44:BL:21:PRO:CD	2.63	0.47
44:BL:40:LEU:O	44:BL:42:ARG:N	2.47	0.47
44:BL:48:GLU:O	44:BL:49:PRO:C	2.51	0.47
45:BM:5:ARG:NH2	45:BM:73:ASP:OD2	2.48	0.47
34:BA:691:G:C6	46:BN:26:ASN:OD1	2.68	0.47
47:BO:84:LEU:HB3	47:BO:104:VAL:HG11	1.97	0.47
48:BP:58:GLU:O	48:BP:61:GLU:CB	2.63	0.47
48:BP:74:VAL:O	48:BP:78:ILE:CD1	2.62	0.47
48:BP:99:ARG:HH11	48:BP:99:ARG:HG3	1.80	0.47
52:BT:29:HIS:CG	52:BT:30:PRO:HD2	2.50	0.47
53:BU:58:LEU:HD22	53:BU:62:GLU:CG	2.44	0.47
53:BU:65:ILE:HG13	53:BU:66:LEU:N	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BV:36:ARG:HH21	54:BV:72:GLY:C	2.17	0.47
54:BV:64:GLU:O	54:BV:67:VAL:HG23	2.14	0.47
55:BW:28:ALA:O	55:BW:31:SER:CB	2.63	0.47
55:BW:34:LYS:HA	55:BW:37:SER:OG	2.15	0.47
55:BW:41:VAL:O	55:BW:91:LEU:CD1	2.63	0.47
56:BX:20:LYS:HE3	56:BX:21:TYR:CZ	2.50	0.47
10:AK:105:GLN:N	10:AK:105:GLN:CD	2.68	0.47
10:AK:129:VAL:HB	10:AK:131:VAL:HG23	1.96	0.47
10:AK:76:THR:CA	10:AK:142:LYS:HE2	2.44	0.47
37:BE:135:GLN:C	37:BE:139:LYS:CE	2.82	0.47
4:AD:169:LYS:NZ	4:AD:169:LYS:HB2	2.28	0.47
9:AJ:2:THR:OG1	9:AJ:5:GLU:HG3	2.14	0.47
2:AA:56:A:H3'	2:AA:57:C:C6	2.50	0.47
3:AC:73:ARG:O	3:AC:111:ASP:N	2.37	0.47
24:A0:33:ARG:O	24:A0:34:ILE:CG1	2.57	0.47
24:A0:63:ARG:NH1	24:A0:80:PHE:CG	2.83	0.47
25:A1:82:GLY:O	25:A1:85:ARG:N	2.47	0.47
25:A1:93:LYS:N	26:A2:10:LYS:HZ3	2.12	0.47
26:A2:5:ILE:O	26:A2:6:GLN:CG	2.63	0.47
2:AA:1187:G:O4'	26:A2:82:ARG:NH2	2.48	0.47
28:A4:48:ARG:CG	28:A4:49:PHE:CG	2.98	0.47
29:A5:12:SER:O	29:A5:15:LYS:N	2.47	0.47
29:A5:46:CYS:HB3	29:A5:48:ASN:HD22	1.80	0.47
30:A6:21:TYR:CD2	30:A6:22:TYR:N	2.82	0.47
30:A6:46:LYS:HA	30:A6:46:LYS:HE2	1.95	0.47
31:A7:30:ILE:HD13	31:A7:33:ARG:HH11	1.79	0.47
32:A8:50:LEU:HD23	32:A8:51:ALA:CA	2.42	0.47
33:A9:30:VAL:C	33:A9:32:HIS:H	2.18	0.47
2:AA:1122:G:C2	2:AA:1123:C:C4	3.03	0.47
2:AA:1138:G:OP1	12:AM:82:THR:HA	2.13	0.47
2:AA:1140:C:C2'	2:AA:1141:U:OP2	2.62	0.47
2:AA:1144:G:C2'	2:AA:1145:C:H5'	2.45	0.47
2:AA:1002:G:C6	2:AA:1153:C:N4	2.82	0.47
2:AA:1168:G:C2'	2:AA:1169:G:C5'	2.87	0.47
2:AA:1173:G:H1'	2:AA:1177:A:C6	2.49	0.47
2:AA:1300:U:O2'	2:AA:1301:A:P	2.73	0.47
2:AA:1338:G:O2'	19:AT:13:LYS:NZ	2.47	0.47
2:AA:1344:G:O4'	2:AA:1384:A:C2	2.68	0.47
2:AA:1394:U:O3'	2:AA:1603:A:H5'	2.14	0.47
2:AA:135:G:C2	2:AA:144:C:N3	2.77	0.47
2:AA:1524:G:C5	2:AA:1525:G:C8	3.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1615:C:H5	2:AA:1617:C:C5	2.31	0.47
2:AA:1633:G:C6	2:AA:1635:G:C2	3.03	0.47
2:AA:1637:A:C6	2:AA:1638:C:C4	3.03	0.47
2:AA:1689:A:N7	2:AA:1698:A:C2	2.82	0.47
2:AA:1692:U:C4	2:AA:1694:C:C2	3.03	0.47
2:AA:1704:G:C5	2:AA:1705:G:C8	3.03	0.47
2:AA:1786:A:C6	2:AA:1938:A:N6	2.82	0.47
2:AA:1863:G:O6	2:AA:1879:C:N3	2.48	0.47
2:AA:1886:C:O2'	2:AA:1887:C:C5'	2.63	0.47
2:AA:1894:C:H2'	2:AA:1895:C:H6	1.80	0.47
2:AA:1956:U:O2	2:AA:1956:U:H3'	2.14	0.47
2:AA:2033:A:N1	2:AA:2036:C:C6	2.83	0.47
2:AA:2120:G:H2'	2:AA:2121:G:C8	2.50	0.47
2:AA:2126:A:C2	2:AA:2127:G:C2	3.03	0.47
2:AA:2119:A:C5	2:AA:2147:G:O5'	2.67	0.47
2:AA:2212:A:C2	2:AA:2213:U:C5'	2.96	0.47
2:AA:2086:U:O4	2:AA:2233:U:O4	2.33	0.47
2:AA:2273:A:N7	2:AA:2274:A:N9	2.63	0.47
2:AA:2395:C:H2'	2:AA:2396:G:C8	2.50	0.47
2:AA:2468:G:N2	2:AA:2481:G:N9	2.62	0.47
2:AA:2489:G:N7	2:AA:2490:G:N7	2.62	0.47
2:AA:2543:G:C8	2:AA:2544:G:N7	2.83	0.47
2:AA:2567:G:H2'	2:AA:2568:C:C6	2.50	0.47
2:AA:1129:A:N1	2:AA:2570:G:O4'	2.47	0.47
2:AA:2579:C:C4	2:AA:2580:U:C5	3.03	0.47
2:AA:2578:G:H21	2:AA:2579:C:H1'	1.80	0.47
2:AA:2586:C:C6	2:AA:2586:C:C3'	2.97	0.47
2:AA:2586:C:H2'	2:AA:2587:A:C8	2.50	0.47
2:AA:2621:A:C6	2:AA:2622:C:C4	3.02	0.47
2:AA:2638:G:C8	2:AA:2775:A:C6	3.03	0.47
2:AA:2654:A:H61	2:AA:2667:C:H41	1.61	0.47
2:AA:270(E):G:C2'	2:AA:270(F):U:H5'	2.45	0.47
2:AA:270(X):G:N3	2:AA:270(Y):G:C4'	2.78	0.47
2:AA:2792:G:N2	2:AA:2793:G:N2	2.62	0.47
2:AA:2873:A:C2'	2:AA:2874:C:O5'	2.62	0.47
2:AA:2875:C:C2	2:AA:2876:G:C8	3.02	0.47
2:AA:2881:C:H2'	2:AA:2882:A:H8	1.80	0.47
2:AA:339:U:C2'	2:AA:340:A:C8	2.81	0.47
2:AA:475:U:H5'	2:AA:510:C:OP2	2.15	0.47
2:AA:617:G:OP2	6:AF:221:GLU:OE1	2.33	0.47
2:AA:674:G:H5''	6:AF:69:HIS:CA	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2712:U:C6	2:AA:712(A):A:H8	2.29	0.47
2:AA:784:A:C6	2:AA:792:G:C4	3.03	0.47
2:AA:819:A:H8	2:AA:819:A:H5'	1.79	0.47
2:AA:892:G:C6	2:AA:893:C:C5	3.03	0.47
2:AA:910:A:C2	2:AA:911:A:N7	2.83	0.47
1:AB:29:A:H2'	1:AB:30:C:C6	2.50	0.47
1:AB:42:C:H5'	7:AG:48:MET:CB	2.45	0.47
3:AC:192:PHE:O	3:AC:193:ILE:C	2.52	0.47
4:AD:146:LYS:HD3	4:AD:146:LYS:HA	1.36	0.47
4:AD:143:ILE:O	4:AD:152:GLN:N	2.48	0.47
2:AA:1799:G:H22	4:AD:153:LEU:HG	1.79	0.47
5:AE:211:GLN:N	5:AE:216:ARG:CZ	2.59	0.47
5:AE:43:GLY:O	5:AE:44:TYR:CD1	2.68	0.47
6:AF:150:THR:HB	6:AF:207:LEU:HD21	1.97	0.47
6:AF:142:ASP:HB2	6:AF:237:GLU:OE1	2.15	0.47
9:AI:26:GLU:C	9:AI:28:LYS:N	2.68	0.47
9:AJ:29:PHE:O	9:AJ:34:ALA:N	2.48	0.47
9:AJ:68:GLN:O	9:AJ:69:ASN:CG	2.53	0.47
10:AK:10:LYS:HG3	10:AK:11:GLY:H	1.80	0.47
10:AK:7:LYS:CE	10:AK:12:LYS:NZ	2.74	0.47
2:AA:2093:G:P	10:AK:25:TYR:CE2	3.08	0.47
10:AK:6:LEU:CD2	10:AK:14:LYS:HZ3	2.27	0.47
11:AL:116:LEU:O	11:AL:117:ASN:C	2.53	0.47
2:AA:1006:C:O2'	12:AM:86:MET:SD	2.70	0.47
13:AN:110:ASP:O	13:AN:111:PHE:CD2	2.68	0.47
13:AN:112:MET:HA	13:AN:115:ILE:CG1	2.45	0.47
13:AN:81:GLU:CG	13:AN:82:ASN:N	2.28	0.47
14:AO:108:VAL:O	14:AO:125:PHE:HB3	2.15	0.47
2:AA:2416:C:OP1	14:AO:51:PHE:CD2	2.66	0.47
14:AO:55:GLN:HE21	14:AO:56:LYS:CG	2.27	0.47
14:AO:59:GLU:OE1	14:AO:60:GLU:OE1	2.32	0.47
15:AP:135:ALA:O	15:AP:138:ARG:N	2.48	0.47
18:AS:103:ILE:O	18:AS:103:ILE:HG22	2.15	0.47
18:AS:13:SER:OG	18:AS:16:LYS:HB2	2.15	0.47
18:AS:89:ALA:O	18:AS:90:ARG:NH1	2.47	0.47
19:AT:44:GLN:OE1	19:AT:45:TYR:CD1	2.68	0.47
20:AU:9:LYS:HE3	20:AU:13:ARG:CZ	2.45	0.47
20:AU:18:GLU:HB3	20:AU:21:LYS:HD3	1.96	0.47
20:AU:27:LEU:HA	20:AU:98:VAL:O	2.15	0.47
20:AU:27:LEU:HD13	20:AU:31:LEU:CD1	2.38	0.47
20:AU:74:VAL:H	20:AU:91:LEU:CD1	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1088:G:C6	34:BA:1089:G:N7	2.83	0.47
34:BA:1093:A:C6	34:BA:1095:U:O4'	2.68	0.47
34:BA:1148:U:O2'	34:BA:1149:C:C5'	2.63	0.47
34:BA:1253:G:C2	34:BA:1254:C:C2	3.03	0.47
34:BA:1323:G:C6	34:BA:1324:A:C6	3.03	0.47
34:BA:1324:A:N1	34:BA:1325:C:C4	2.83	0.47
34:BA:1355:G:C2	34:BA:1356:G:C8	3.03	0.47
34:BA:1419:G:C2	34:BA:1420:C:N3	2.83	0.47
34:BA:247:G:O2'	34:BA:248:C:C5'	2.57	0.47
34:BA:311:C:C2'	34:BA:312:C:H5'	2.45	0.47
34:BA:34:C:H2'	34:BA:35:G:H8	1.80	0.47
34:BA:570:G:O3'	34:BA:819:A:H2'	2.15	0.47
34:BA:614:A:N1	34:BA:627:G:C6	2.83	0.47
34:BA:673:G:H5''	41:BI:87:ARG:HH21	1.80	0.47
34:BA:685:G:C2	34:BA:686:U:H5	2.31	0.47
34:BA:707:C:C2'	34:BA:708:C:O5'	2.62	0.47
34:BA:792:A:H2'	34:BA:794:A:N6	2.21	0.47
34:BA:817:C:C6	34:BA:819:A:C4'	2.98	0.47
34:BA:838:G:C6	34:BA:849:C:N4	2.82	0.47
34:BA:98:U:H2'	34:BA:99:C:O5'	2.15	0.47
35:BB:5:A:N1	35:BB:68:U:O2	2.48	0.47
35:BB:62:A:C2	35:BB:63:C:N3	2.82	0.47
35:BC:57:G:C2'	35:BC:58:A:C5'	2.91	0.47
37:BE:19:HIS:HD2	37:BE:189:ASP:OD2	1.98	0.47
37:BE:73:THR:CA	37:BE:94:ASN:O	2.57	0.47
38:BF:20:SER:HG	38:BF:36:ASP:CG	2.18	0.47
38:BF:29:TYR:HE2	38:BF:33:LEU:HD11	1.80	0.47
39:BG:122:ARG:O	39:BG:134:ASP:CB	2.57	0.47
39:BG:157:LEU:HA	39:BG:160:GLN:CG	2.45	0.47
39:BG:43:HIS:CE1	39:BG:46:LYS:HE3	2.48	0.47
40:BH:124:GLY:O	40:BH:126:ARG:N	2.48	0.47
34:BA:1081:G:OP1	40:BH:18:ARG:HB2	2.15	0.47
40:BH:32:VAL:O	40:BH:43:LEU:HD23	2.14	0.47
42:BJ:113:GLU:OE1	42:BJ:119:ARG:N	2.47	0.47
42:BJ:17:VAL:HG21	42:BJ:44:TYR:CE2	2.50	0.47
42:BJ:14:PRO:CB	42:BJ:19:GLY:O	2.62	0.47
43:BK:69:ARG:HG3	43:BK:70:GLN:N	2.30	0.47
44:BL:99:LEU:CD2	44:BL:99:LEU:N	2.77	0.47
45:BM:7:LYS:NZ	45:BM:71:LEU:HD21	2.29	0.47
46:BN:62:GLN:C	46:BN:62:GLN:CD	2.73	0.47
34:BA:363:A:C2	47:BO:31:PRO:HG2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:91:ARG:HH12	48:BP:97:PRO:HG2	1.79	0.47
53:BU:63:GLN:CA	53:BU:66:LEU:CG	2.91	0.47
55:BW:88:VAL:O	55:BW:92:LEU:CG	2.59	0.47
10:AK:119:ASP:OD2	10:AK:120:ALA:N	2.47	0.47
2:AA:2248:C:H2'	2:AA:2249:U:H5'	1.95	0.47
11:AL:52:MET:SD	11:AL:81:LYS:HB2	2.55	0.47
39:BG:187:ARG:O	39:BG:188:LEU:C	2.53	0.47
11:AL:36:MET:HE1	11:AL:40:LYS:HE3	1.97	0.47
3:AC:16:PRO:HG2	3:AC:17:ASN:OD1	2.15	0.47
24:A0:96:ARG:HG3	24:A0:98:LEU:CD1	2.39	0.47
25:A1:98:ILE:N	25:A1:98:ILE:HD12	2.30	0.47
26:A2:17:GLY:O	26:A2:18:ASP:C	2.53	0.47
28:A4:7:PRO:CD	28:A4:56:VAL:HG21	2.40	0.47
28:A4:63:PHE:HE2	28:A4:69:ARG:HH22	1.61	0.47
30:A6:54:LYS:O	30:A6:54:LYS:CG	2.62	0.47
32:A8:28:GLY:C	32:A8:29:LYS:HG3	2.34	0.47
2:AA:1102:C:C1'	2:AA:1103:A:H8	2.23	0.47
2:AA:1111:A:H8	2:AA:1111:A:P	2.38	0.47
2:AA:1036:G:C6	2:AA:1120:G:O6	2.68	0.47
2:AA:1152:C:C2	2:AA:1153:C:H6	2.33	0.47
2:AA:1191:G:C5	2:AA:1192:G:N7	2.83	0.47
2:AA:1197:G:C5	2:AA:1198:U:H5	2.33	0.47
2:AA:1244:G:H2'	2:AA:1245:G:H8	1.79	0.47
2:AA:1260:G:N3	2:AA:1260:G:H2'	2.30	0.47
2:AA:1275:A:C2	24:A0:16:HIS:CB	2.91	0.47
2:AA:1309:G:O5'	31:A7:9:ASN:ND2	2.47	0.47
2:AA:1334:G:O2'	2:AA:1335:U:H5'	2.14	0.47
2:AA:1350:C:O2'	2:AA:1351:C:H5'	2.15	0.47
2:AA:1379:A:H2	2:AA:1380:G:OP1	1.98	0.47
2:AA:1576:U:H2'	2:AA:1577:C:C1'	2.44	0.47
2:AA:749:C:C2	2:AA:1618:A:N7	2.83	0.47
2:AA:1298:C:C4	2:AA:1643:G:C6	3.03	0.47
2:AA:1655:A:O2'	2:AA:1656:C:C5'	2.56	0.47
2:AA:1664:A:C8	2:AA:1664:A:H3'	2.50	0.47
2:AA:1670:C:OP2	2:AA:1671:U:H5	1.98	0.47
2:AA:1684:C:N3	2:AA:1705:G:C2	2.83	0.47
2:AA:179:G:N3	2:AA:179:G:H2'	2.29	0.47
2:AA:1893:C:C5	2:AA:1894:C:N4	2.82	0.47
2:AA:1966:A:O2'	2:AA:1967:C:O5'	2.32	0.47
2:AA:2002:G:C6	2:AA:2003:G:C8	3.03	0.47
2:AA:1266:G:C2'	2:AA:2012:G:O6	2.53	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2014:A:H2	2:AA:2613:U:N3	2.12	0.47
2:AA:2053:G:N2	2:AA:2054:A:C4	2.83	0.47
2:AA:2065:C:H2'	2:AA:2066:C:H6	1.79	0.47
2:AA:2180:U:C2'	2:AA:2181:G:C8	2.77	0.47
2:AA:2262:U:O4'	2:AA:2328:A:C2	2.67	0.47
2:AA:2264:C:C5	2:AA:2265:U:H5	2.32	0.47
2:AA:2269:A:H2'	2:AA:2270:G:C8	2.48	0.47
2:AA:2278:A:H1'	15:AP:19:TYR:HD2	1.79	0.47
2:AA:2330:G:N2	2:AA:2331:G:H1'	2.30	0.47
2:AA:2320:A:C2	2:AA:2333:A:C2	3.03	0.47
2:AA:2344:U:H2'	2:AA:2345:G:OP2	2.15	0.47
2:AA:2349:G:C6	2:AA:2369:A:N1	2.83	0.47
2:AA:2349:G:N3	2:AA:2369:A:C2	2.82	0.47
2:AA:238:C:C4	2:AA:239:U:C5	3.03	0.47
2:AA:2460:U:C6	2:AA:2461:C:H5	2.33	0.47
2:AA:247:G:C8	2:AA:249:C:O2	2.68	0.47
2:AA:2628:C:O2'	2:AA:2781:A:C2'	2.62	0.47
2:AA:2694:G:O5'	2:AA:2694:G:H8	1.98	0.47
2:AA:2731:G:H2'	2:AA:2732:G:C8	2.50	0.47
2:AA:273(F):C:C5	2:AA:274:G:C8	3.03	0.47
2:AA:2875:C:N3	2:AA:2876:G:C5	2.82	0.47
2:AA:2881:C:C4	2:AA:2882:A:N7	2.83	0.47
2:AA:2810:A:H2	2:AA:2892:A:N3	2.12	0.47
2:AA:296:C:N3	2:AA:297:C:C5	2.83	0.47
2:AA:297:C:N4	2:AA:298:G:N3	2.63	0.47
2:AA:304:G:C2'	2:AA:305:U:H5'	2.45	0.47
2:AA:332:A:C6	2:AA:335:C:C2	3.03	0.47
2:AA:273(B):C:O2	2:AA:363(D):G:C2	2.68	0.47
2:AA:387:U:OP2	28:A4:31:ILE:CD1	2.62	0.47
2:AA:38:A:C2	2:AA:39:C:C4	3.03	0.47
2:AA:452:G:C2'	2:AA:453:C:H5''	2.44	0.47
2:AA:487:C:C5	2:AA:488:G:C8	3.03	0.47
2:AA:498:G:C3'	2:AA:498:G:C8	2.97	0.47
2:AA:4:C:C2'	2:AA:5:A:O5'	2.63	0.47
2:AA:605:C:O2	2:AA:606:U:C5	2.68	0.47
2:AA:621:A:N3	2:AA:621:A:H5'	2.29	0.47
2:AA:679:C:N3	2:AA:680:G:N7	2.62	0.47
2:AA:754:C:C2'	2:AA:755:C:O5'	2.62	0.47
2:AA:821:A:N7	2:AA:946:G:C8	2.83	0.47
2:AA:829:A:OP1	2:AA:831:G:H1'	2.15	0.47
2:AA:849:A:H2'	2:AA:850:C:H5'	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:974:G:C3'	26:A2:82:ARG:NH2	2.77	0.47
1:AB:11:C:N3	1:AB:15:A:N6	2.63	0.47
1:AB:53:A:C5	1:AB:54:G:C8	3.02	0.47
1:AB:78:A:OP1	21:AV:73:LYS:HE3	2.15	0.47
3:AC:200:LYS:CG	3:AC:208:PHE:CE1	2.97	0.47
3:AC:213:TYR:CD1	3:AC:213:TYR:N	2.83	0.47
6:AF:162:VAL:CB	6:AF:165:ASP:OD1	2.41	0.47
6:AF:94:THR:C	6:AF:98:ARG:HH21	2.18	0.47
7:AG:56:ARG:CG	7:AG:65:GLU:HB2	2.45	0.47
8:AH:161:ILE:C	8:AH:162:ARG:CG	2.83	0.47
9:AI:3:ILE:HG22	9:AI:7:ILE:HD11	1.97	0.47
10:AK:35:LEU:O	10:AK:36:ALA:CB	2.63	0.47
10:AK:6:LEU:O	10:AK:6:LEU:CG	2.63	0.47
14:AO:114:VAL:HG11	14:AO:133:VAL:CA	2.41	0.47
14:AO:71:GLU:CA	14:AO:74:THR:HG23	2.39	0.47
16:AQ:102:LEU:HD12	16:AQ:102:LEU:N	2.11	0.47
16:AQ:66:LEU:HB2	16:AQ:69:TYR:OH	2.14	0.47
19:AT:16:ASN:O	19:AT:17:ASP:C	2.53	0.47
20:AU:31:LEU:HD23	20:AU:113:GLU:OE2	2.14	0.47
20:AU:44:ALA:C	20:AU:65:VAL:HG22	2.35	0.47
20:AU:46:ASP:OD1	20:AU:98:VAL:CG1	2.63	0.47
21:AV:91:PRO:CG	21:AV:127:PRO:HB3	2.45	0.47
21:AV:138:VAL:CG2	21:AV:140:LYS:NZ	2.78	0.47
21:AV:138:VAL:HG21	21:AV:140:LYS:HZ2	1.80	0.47
22:AW:41:GLU:O	22:AW:43:PRO:HD3	2.15	0.47
23:AX:35:ARG:C	23:AX:36:VAL:HG13	2.34	0.47
23:AX:53:LEU:C	23:AX:53:LEU:HD23	2.35	0.47
34:BA:1068:G:C8	34:BA:1094:G:H8	2.31	0.47
34:BA:1122:U:O4	34:BA:1123:A:C6	2.68	0.47
34:BA:114:U:O2	34:BA:115:G:C8	2.68	0.47
34:BA:1258:G:H1	34:BA:1277:C:N4	2.12	0.47
34:BA:1297:C:H4'	34:BA:1298:C:O5'	2.14	0.47
34:BA:1319:A:H2'	34:BA:1320:C:OP2	2.15	0.47
34:BA:1330:U:OP1	48:BP:25:ILE:N	2.47	0.47
34:BA:1339:A:H2'	34:BA:1340:A:C5'	2.30	0.47
34:BA:1351:U:O4	44:BL:118:LYS:HE2	2.15	0.47
34:BA:1374:A:H2'	34:BA:1375:A:H8	1.78	0.47
34:BA:15:G:O6	34:BA:1396:A:N6	2.47	0.47
34:BA:1478:C:O2	34:BA:1478:C:H2'	2.15	0.47
34:BA:190(C):C:H1'	34:BA:190(G):G:H22	1.80	0.47
34:BA:229:U:N3	34:BA:230:G:C5	2.82	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:251:G:C5'	34:BA:252:U:OP1	2.62	0.47
34:BA:258:G:C2	34:BA:259:G:C5	3.02	0.47
34:BA:269:C:H2'	34:BA:270:A:O5'	2.15	0.47
34:BA:9:G:N1	34:BA:26:A:C6	2.83	0.47
34:BA:304:U:H2'	34:BA:305:G:H8	1.80	0.47
34:BA:345:C:O4'	34:BA:346:G:C2	2.68	0.47
34:BA:373:A:O2'	34:BA:374:A:C5'	2.54	0.47
34:BA:437:U:H2'	34:BA:438:G:C4'	2.44	0.47
34:BA:448:A:C2	34:BA:449:C:C5	3.02	0.47
34:BA:44:G:H2'	34:BA:45:U:C5'	2.45	0.47
34:BA:498:U:O2'	34:BA:499:A:H5'	2.15	0.47
34:BA:52:G:C2	34:BA:53:A:N9	2.83	0.47
34:BA:616:G:C2	34:BA:625:G:C6	3.03	0.47
34:BA:625:G:O2'	34:BA:626:U:H5'	2.14	0.47
34:BA:634:C:H2'	34:BA:635:G:H8	1.80	0.47
34:BA:64:G:C5'	34:BA:66:G:OP1	2.61	0.47
34:BA:716:A:H2'	34:BA:717:C:O4'	2.15	0.47
34:BA:763:G:O2'	34:BA:764:C:O5'	2.33	0.47
34:BA:891:U:OP2	34:BA:906:G:N1	2.37	0.47
34:BA:930:C:H2'	34:BA:931:C:O5'	2.15	0.47
34:BA:946:A:H2'	34:BA:947:G:N7	2.23	0.47
34:BA:950:U:C2	34:BA:951:G:C8	3.03	0.47
35:BB:62:A:H2'	35:BB:63:C:O5'	2.13	0.47
2:AA:2585:U:C1'	35:BC:76:A:N7	2.77	0.47
37:BE:12:GLU:HA	37:BE:12:GLU:OE2	2.13	0.47
37:BE:168:THR:HG21	37:BE:192:SER:HA	1.97	0.47
38:BF:11:ARG:C	38:BF:13:GLY:H	2.18	0.47
42:BJ:107:ALA:HB1	42:BJ:133:GLY:HA3	1.97	0.47
42:BJ:20:ASP:HB3	42:BJ:23:VAL:HG23	1.96	0.47
43:BK:39:LEU:HA	43:BK:39:LEU:HD13	1.56	0.47
43:BK:6:ILE:HD11	43:BK:85:ARG:CG	2.45	0.47
44:BL:28:VAL:C	44:BL:30:GLY:N	2.67	0.47
44:BL:49:PRO:HG3	44:BL:78:LYS:HD3	1.97	0.47
45:BM:54:PHE:O	45:BM:55:LYS:O	2.32	0.47
46:BN:57:THR:OG1	46:BN:58:PRO:HD2	2.15	0.47
34:BA:1227:A:O3'	48:BP:115:LYS:HD3	2.15	0.47
48:BP:81:LEU:CA	48:BP:84:ILE:HG12	2.44	0.47
49:BQ:24:CYS:SG	49:BQ:27:CYS:C	2.93	0.47
50:BR:21:ASP:OD2	50:BR:24:SER:HB3	2.15	0.47
53:BU:36:ASN:HB3	53:BU:40:LEU:HD11	1.97	0.47
54:BV:24:ALA:HB3	54:BV:25:LYS:HZ2	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BV:70:LYS:O	54:BV:71:LEU:C	2.54	0.47
54:BV:36:ARG:NH2	54:BV:72:GLY:HA2	2.30	0.47
55:BW:65:LYS:O	55:BW:66:ALA:C	2.51	0.47
55:BW:77:ALA:HA	55:BW:80:ARG:HG3	1.97	0.47
48:BP:121:LYS:HD2	48:BP:121:LYS:N	2.27	0.47
2:AA:1507:A:H4'	2:AA:1510:A:H61	1.80	0.47
36:B1:21:U:C2	36:B1:33:G:O6	2.63	0.47
24:A0:53:HIS:C	24:A0:56:LYS:HG3	2.36	0.47
24:A0:53:HIS:HA	24:A0:56:LYS:CG	2.37	0.47
25:A1:40:LEU:HD11	26:A2:83:ARG:CZ	2.44	0.47
25:A1:74:MET:CE	25:A1:78:THR:CG2	2.88	0.47
25:A1:76:TYR:O	25:A1:80:ILE:HD12	2.14	0.47
26:A2:61:VAL:CG1	26:A2:62:GLU:N	2.78	0.47
26:A2:83:ARG:O	26:A2:84:THR:HG23	2.14	0.47
27:A3:71:ASN:O	27:A3:72:LYS:C	2.52	0.47
2:AA:1363:C:P	28:A4:55:ARG:NH2	2.88	0.47
30:A6:21:TYR:O	30:A6:22:TYR:CD2	2.68	0.47
31:A7:25:LYS:CA	31:A7:25:LYS:CE	2.81	0.47
31:A7:5:TYR:O	31:A7:7:PRO:HD3	2.15	0.47
32:A8:23:MET:CE	32:A8:23:MET:CA	2.91	0.47
32:A8:64:ARG:HG2	32:A8:64:ARG:NH1	2.30	0.47
33:A9:10:MET:C	33:A9:11:CYS:O	2.50	0.47
2:AA:1213:A:C5	2:AA:1214:A:N7	2.83	0.47
2:AA:1234:U:C4	2:AA:1235:G:N1	2.83	0.47
2:AA:1334:G:O2'	2:AA:1335:U:C5'	2.63	0.47
2:AA:1355:G:N1	2:AA:1377:G:C2	2.83	0.47
2:AA:1387:C:O2'	2:AA:1388:G:O5'	2.29	0.47
2:AA:1401:G:C6	2:AA:1402:C:N4	2.83	0.47
2:AA:1422:G:C4	2:AA:1423:G:N7	2.82	0.47
2:AA:1535:U:C1'	2:AA:1538:G:H21	2.25	0.47
2:AA:1608:A:C8	2:AA:1611:C:N4	2.82	0.47
2:AA:1658:C:H2'	2:AA:1658:C:O2	2.15	0.47
2:AA:1665:A:HO2'	2:AA:1666:G:C5'	2.24	0.47
2:AA:162:U:H4'	2:AA:171:G:N3	2.30	0.47
2:AA:1747:G:HO2'	2:AA:1748:G:H5'	1.79	0.47
2:AA:1754:C:C2'	2:AA:1755:A:O4'	2.63	0.47
2:AA:1812:A:N1	2:AA:1813:G:C4	2.83	0.47
2:AA:1932:A:C2	2:AA:1933:G:C1'	2.98	0.47
2:AA:2019:A:H4'	2:AA:2020:A:OP1	2.15	0.47
2:AA:2020:A:C2	2:AA:2035:G:C6	3.03	0.47
2:AA:2033:A:N1	2:AA:2036:C:C4	2.83	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2103:C:C2	2:AA:2104:G:C8	3.03	0.47
2:AA:212:G:H2'	2:AA:213:A:H8	1.80	0.47
2:AA:2273:A:N7	2:AA:2274:A:C8	2.83	0.47
2:AA:2349:G:O6	2:AA:2350:C:C5	2.68	0.47
2:AA:2361:A:OP2	32:A8:27:SER:O	2.32	0.47
2:AA:2380:C:O2'	2:AA:2381:C:H5'	2.14	0.47
2:AA:2392:A:N7	2:AA:2393:A:C4	2.83	0.47
2:AA:2619:C:HO2'	2:AA:2620:C:H5'	1.76	0.47
2:AA:2657:A:C8	2:AA:2657:A:C3'	2.98	0.47
2:AA:2691:C:H6	2:AA:2691:C:C3'	2.23	0.47
2:AA:2737:G:C8	2:AA:2737:G:H3'	2.50	0.47
2:AA:2741:A:C8	2:AA:2742:C:C6	3.03	0.47
2:AA:2756:U:H3	2:AA:2758:A:N6	2.13	0.47
2:AA:2799:A:C5'	2:AA:2801:A:OP2	2.62	0.47
2:AA:280:C:H2'	2:AA:281:G:H3'	1.94	0.47
2:AA:280:C:C2'	2:AA:281:G:O5'	2.63	0.47
2:AA:2839:G:H2'	2:AA:2840:C:H6	1.79	0.47
2:AA:285:C:H2'	2:AA:286:C:C4	2.50	0.47
2:AA:331:A:HO2'	2:AA:332:A:P	2.31	0.47
2:AA:290:G:N2	2:AA:350:U:C2'	2.75	0.47
2:AA:468:G:H2'	2:AA:469:G:C4'	2.44	0.47
2:AA:479:A:C5	2:AA:481:G:C4	3.03	0.47
2:AA:502:A:H8	2:AA:502:A:O5'	1.98	0.47
2:AA:643:A:HO2'	2:AA:644:A:C1'	2.28	0.47
2:AA:685:A:N9	2:AA:774:A:N6	2.63	0.47
2:AA:711:G:C2	2:AA:712:G:C8	3.02	0.47
2:AA:809:G:C4	2:AA:810:U:C6	3.03	0.47
2:AA:819:A:C2'	2:AA:820:A:O5'	2.64	0.47
2:AA:867:C:O2	2:AA:867:C:C2'	2.61	0.47
2:AA:890:A:H4'	2:AA:892:G:H8	1.79	0.47
2:AA:895:U:C6	2:AA:895:U:O5'	2.68	0.47
2:AA:906:G:H3'	2:AA:907:U:H5''	1.96	0.47
2:AA:993:G:O4'	26:A2:90:PHE:CE2	2.67	0.47
1:AB:117:G:C2	1:AB:118:G:N9	2.83	0.47
1:AB:24:G:C2	1:AB:56:G:C2	3.02	0.47
1:AB:53:A:N1	1:AB:54:G:C8	2.82	0.47
1:AB:24:G:C6	1:AB:56:G:C4	3.03	0.47
1:AB:73:A:C2	1:AB:74:U:C5	3.03	0.47
1:AB:78:A:H2'	1:AB:79:C:H5'	1.96	0.47
1:AB:9:G:C2	1:AB:112:G:C8	3.03	0.47
3:AC:117:PRO:O	3:AC:118:ASP:OD1	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:103:ILE:HB	3:AC:127:LEU:HD11	1.95	0.47
3:AC:148:ASN:HB2	3:AC:151:GLU:HB2	1.95	0.47
3:AC:36:LYS:HZ2	3:AC:36:LYS:C	2.19	0.47
4:AD:170:TYR:C	4:AD:182:MET:SD	2.93	0.47
4:AD:197:GLY:O	4:AD:199:ARG:N	2.44	0.47
5:AE:99:VAL:HG12	5:AE:100:TRP:H	1.79	0.47
5:AE:175:ASP:O	5:AE:176:HIS:C	2.52	0.47
5:AE:221:LYS:HZ3	5:AE:233:ARG:CG	2.23	0.47
5:AE:42:ALA:O	5:AE:189:MET:SD	2.73	0.47
6:AF:106:GLU:CA	6:AF:109:LEU:HD12	2.40	0.47
6:AF:168:ARG:O	6:AF:168:ARG:CD	2.50	0.47
6:AF:197:SER:HB3	6:AF:236:THR:OG1	2.14	0.47
7:AG:140:ARG:HH11	7:AG:144:ARG:NH2	2.13	0.47
7:AG:19:GLU:OE2	7:AG:139:TYR:CD2	2.68	0.47
7:AG:28:GLY:CA	7:AG:69:ILE:HD13	2.45	0.47
8:AH:11:PRO:O	8:AH:14:VAL:CB	2.63	0.47
8:AH:41:THR:HB	8:AH:54:PRO:HD3	1.96	0.47
8:AH:58:LYS:HB3	8:AH:61:ARG:NH1	2.30	0.47
9:AI:26:GLU:OE2	9:AJ:43:PRO:CG	2.60	0.47
9:AI:72:GLN:O	9:AI:75:LYS:HB2	2.14	0.47
9:AI:76:VAL:O	9:AI:80:ILE:HB	2.15	0.47
9:AI:23:LYS:CD	9:AJ:47:ALA:N	2.74	0.47
10:AK:2:LYS:HB2	10:AK:2:LYS:HE3	1.73	0.47
11:AL:107:GLU:O	11:AL:108:ILE:C	2.53	0.47
9:AJ:86:LYS:CE	11:AL:10:LYS:HE3	2.45	0.47
12:AM:10:VAL:HG11	12:AM:36:VAL:CG2	2.43	0.47
12:AM:53:ILE:HG23	12:AM:135:ILE:HG12	1.89	0.47
14:AO:76:LEU:HD21	14:AO:96:VAL:HG12	1.97	0.47
14:AO:81:VAL:HA	14:AO:92:ASP:OD2	2.15	0.47
15:AP:17:ARG:H	15:AP:17:ARG:HD3	1.80	0.47
16:AQ:49:THR:O	16:AQ:49:THR:HG22	2.14	0.47
18:AS:49:LYS:HD3	18:AS:50:VAL:CA	2.44	0.47
19:AT:2:TRP:N	19:AT:2:TRP:CD1	2.82	0.47
19:AT:31:ARG:C	19:AT:32:ALA:O	2.53	0.47
19:AT:31:ARG:N	19:AT:31:ARG:HE	2.12	0.47
22:AW:34:GLN:O	22:AW:37:GLY:N	2.48	0.47
22:AW:45:ARG:HH21	22:AW:49:LEU:HD21	1.74	0.47
23:AX:15:TYR:N	23:AX:15:TYR:CD1	2.78	0.47
34:BA:1536:C:N4	36:B1:53:G:H1	2.12	0.47
34:BA:1033:G:N1	34:BA:1034:G:C5	2.83	0.47
34:BA:1033:G:N3	34:BA:1034:G:C8	2.83	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1128:C:N4	34:BA:1139:G:N1	2.63	0.47
34:BA:1118:C:O4'	34:BA:1179:A:C1'	2.63	0.47
34:BA:1179:A:O3'	44:BL:103:THR:OG1	2.24	0.47
34:BA:991:U:C4	34:BA:1212:U:O2	2.68	0.47
34:BA:131:C:O2'	34:BA:132:C:H5'	2.15	0.47
34:BA:1378:C:N4	34:BA:1379:G:C4	2.83	0.47
34:BA:1470:G:HO2'	34:BA:1471:G:H5'	1.77	0.47
34:BA:1510:U:H3	34:BA:1525:G:H1	1.63	0.47
34:BA:815:A:N9	34:BA:1529:G:C6	2.83	0.47
34:BA:160:A:O5'	34:BA:160:A:H8	1.99	0.47
34:BA:130:A:C2	34:BA:263:A:H2	2.16	0.47
34:BA:265:G:H4'	52:BT:66:SER:H	1.80	0.47
34:BA:303:A:HO2'	34:BA:555:C:HO2'	1.52	0.47
34:BA:65:U:C5	34:BA:381:C:C4	3.03	0.47
34:BA:394:G:C4	34:BA:395:C:H5	2.28	0.47
34:BA:511:C:H42	34:BA:541:G:N2	2.13	0.47
34:BA:51:A:C2'	34:BA:52:G:OP2	2.62	0.47
34:BA:515:G:N3	34:BA:537:G:C2	2.83	0.47
34:BA:580:U:C2	34:BA:581:G:C8	3.03	0.47
34:BA:5:U:O4	39:BG:86:LYS:CE	2.61	0.47
34:BA:618:C:H5	34:BA:621:A:OP2	1.98	0.47
34:BA:629:G:H2'	34:BA:630:G:C8	2.46	0.47
34:BA:701:C:O2	34:BA:703:G:N1	2.48	0.47
34:BA:781:A:H2'	34:BA:782:A:O4'	2.15	0.47
34:BA:790:A:N6	34:BA:791:G:C2	2.82	0.47
34:BA:855:G:H2'	34:BA:856:C:C5'	2.45	0.47
34:BA:865:A:H2'	34:BA:866:C:C1'	2.45	0.47
34:BA:960:U:C2	34:BA:1225:A:N7	2.83	0.47
34:BA:970:C:N3	48:BP:126:LYS:CD	2.76	0.47
35:BB:33:U:O5'	35:BB:33:U:H6	1.98	0.47
35:BC:27:C:C2	35:BC:28:C:C5	3.02	0.47
37:BE:147:LYS:HB2	37:BE:147:LYS:HZ2	1.80	0.47
37:BE:57:PHE:HD1	37:BE:199:TYR:HE1	1.59	0.47
37:BE:96:ARG:H	37:BE:96:ARG:CD	2.28	0.47
38:BF:20:SER:OG	38:BF:40:ARG:NH2	2.43	0.47
38:BF:78:GLY:HA3	38:BF:83:ARG:H	1.80	0.47
39:BG:94:LEU:CD1	39:BG:200:GLU:OE2	2.63	0.47
40:BH:88:LYS:CB	40:BH:123:LEU:O	2.62	0.47
42:BJ:70:LYS:HA	42:BJ:100:ALA:HB2	1.97	0.47
42:BJ:126:ASP:HB2	42:BJ:131:LYS:O	2.15	0.47
43:BK:35:ILE:O	43:BK:36:LEU:C	2.53	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BK:36:LEU:HA	43:BK:39:LEU:HD23	1.97	0.47
43:BK:1:MET:O	43:BK:3:THR:N	2.47	0.47
43:BK:44:PHE:O	43:BK:64:LYS:HD3	2.14	0.47
44:BL:3:GLN:CA	44:BL:20:ARG:HG2	2.45	0.47
44:BL:74:ILE:HA	44:BL:77:ILE:CG1	2.45	0.47
45:BM:51:ARG:O	45:BM:52:GLY:O	2.32	0.47
46:BN:50:TYR:CD1	46:BN:54:ARG:CB	2.94	0.47
48:BP:49:THR:O	48:BP:52:GLU:N	2.48	0.47
50:BR:56:LEU:HD12	50:BR:59:MET:HE1	1.96	0.47
34:BA:581:G:O3'	50:BR:64:ARG:NH1	2.48	0.47
52:BT:55:ASP:HA	52:BT:79:SER:HA	1.97	0.47
53:BU:23:LYS:HD2	53:BU:57:GLY:O	2.14	0.47
54:BV:32:LYS:HB2	54:BV:57:HIS:CE1	2.50	0.47
55:BW:40:ALA:O	55:BW:41:VAL:C	2.52	0.47
55:BW:73:HIS:O	55:BW:76:ALA:N	2.48	0.47
55:BW:86:ARG:CG	55:BW:87:LYS:H	2.17	0.47
56:BX:10:ARG:HH21	56:BX:13:ILE:CD1	2.22	0.47
56:BX:6:ARG:HD3	56:BX:15:ARG:HH12	1.80	0.47
2:AA:1509:C:P	2:AA:1510:A:O4'	2.74	0.47
37:BE:123:ALA:O	37:BE:124:SER:O	2.33	0.47
25:A1:104:GLU:O	25:A1:105:ALA:C	2.54	0.46
26:A2:4:ILE:HG12	26:A2:13:ARG:HD3	1.96	0.46
26:A2:29:ALA:O	26:A2:30:GLY:C	2.52	0.46
26:A2:49:GLU:HB2	26:A2:54:TYR:CE2	2.49	0.46
26:A2:71:ILE:O	26:A2:72:ARG:HG3	2.14	0.46
28:A4:43:TRP:HB2	28:A4:55:ARG:O	2.14	0.46
30:A6:28:ARG:CG	30:A6:30:ASN:HB3	2.42	0.46
30:A6:42:PRO:O	30:A6:43:VAL:C	2.53	0.46
32:A8:30:ARG:CG	32:A8:31:HIS:H	2.24	0.46
33:A9:17:VAL:HG21	33:A9:26:ILE:CD1	2.45	0.46
2:AA:1004:C:C2'	2:AA:1005:C:OP2	2.63	0.46
2:AA:1009:A:N1	2:AA:1010:A:C2	2.82	0.46
2:AA:1012:U:C2	12:AM:21:ARG:NH1	2.84	0.46
2:AA:1044:G:OP1	2:AA:1046:A:H3'	2.15	0.46
2:AA:1085:A:OP2	9:AI:37:VAL:HG23	2.15	0.46
2:AA:1127:A:C6	2:AA:2518:A:C2	3.03	0.46
2:AA:1136:G:O2'	2:AA:1137:G:H5'	2.15	0.46
2:AA:122:G:H21	2:AA:130:C:H1'	1.80	0.46
2:AA:1339:G:C1'	2:AA:1393:A:C2	2.98	0.46
2:AA:1341:U:C4	2:AA:1395:A:H2	2.33	0.46
2:AA:134:C:N3	2:AA:135:G:C8	2.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:137(A):G:H5''	2:AA:137(A):G:N2	2.29	0.46
2:AA:1439:A:C2'	2:AA:1440:G:C5'	2.81	0.46
2:AA:1520:U:C3'	2:AA:1521:G:C5'	2.86	0.46
2:AA:1565:C:N3	2:AA:1567:A:H1'	2.31	0.46
2:AA:1569:A:H2'	2:AA:1570:A:H8	1.81	0.46
2:AA:1613:G:C6	2:AA:1619:G:C6	3.03	0.46
2:AA:1690:A:N6	2:AA:1697:G:C2	2.83	0.46
2:AA:1754:C:N3	2:AA:1755:A:C5	2.83	0.46
2:AA:118:A:H1'	2:AA:178:G:O4'	2.15	0.46
2:AA:1799:G:N2	4:AD:153:LEU:CD1	2.78	0.46
2:AA:181:A:H2	2:AA:434:U:O2'	1.92	0.46
2:AA:1911:U:C2'	2:AA:1912:A:H5'	2.43	0.46
2:AA:1924:C:H2'	2:AA:1925:C:H6	1.80	0.46
2:AA:2004:G:C6	2:AA:2005:A:C2	3.03	0.46
2:AA:2018:G:O2'	2:AA:2019:A:C5'	2.61	0.46
2:AA:579:G:O2'	2:AA:2019:A:OP1	2.33	0.46
2:AA:2076:U:OP2	2:AA:2238:G:N2	2.46	0.46
2:AA:2180:U:O2'	2:AA:2181:G:O4'	2.31	0.46
2:AA:2092:U:C2	2:AA:2225:A:O2'	2.67	0.46
2:AA:2306:C:C6	2:AA:2306:C:C3'	2.98	0.46
2:AA:2325:G:HO2'	2:AA:2326:C:H5'	1.77	0.46
2:AA:2346:A:O2'	2:AA:2347:C:P	2.72	0.46
2:AA:199:A:C2'	2:AA:2433:A:N6	2.78	0.46
2:AA:243:U:H3'	2:AA:244:A:H8	1.80	0.46
2:AA:2452:C:H2'	2:AA:2453:A:O4'	2.14	0.46
2:AA:2623:G:C2'	2:AA:2624:G:O5'	2.63	0.46
2:AA:2633:G:N1	2:AA:2634:G:C6	2.82	0.46
2:AA:2700:C:C3'	2:AA:2701:C:C5'	2.88	0.46
2:AA:2717:G:C4	2:AA:2718:G:C8	3.04	0.46
2:AA:2718:G:H2'	2:AA:2719:G:O5'	2.15	0.46
2:AA:274:G:H2'	2:AA:275:G:C5'	2.38	0.46
2:AA:2794:C:H2'	2:AA:2794:C:O2	2.14	0.46
2:AA:33:U:O2'	2:AA:34:C:H6	1.92	0.46
2:AA:33:U:H1'	2:AA:34:C:C5	2.50	0.46
2:AA:352:G:C4	2:AA:353:G:C8	3.03	0.46
2:AA:44:A:H2	2:AA:435:C:H41	1.62	0.46
2:AA:447:A:N7	2:AA:454:A:N6	2.62	0.46
2:AA:548:A:H5''	2:AA:549:G:O5'	2.14	0.46
2:AA:543:C:C2	2:AA:551:G:N2	2.84	0.46
2:AA:655:A:OP1	2:AA:655:A:O4'	2.32	0.46
2:AA:656:G:H8	2:AA:656:G:OP2	1.94	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:659:C:H4'	6:AF:102:LEU:O	2.15	0.46
2:AA:6:A:H4'	12:AM:5:GLU:O	2.16	0.46
2:AA:711:G:C2'	2:AA:712:G:H5'	2.46	0.46
2:AA:721:C:N3	2:AA:722:A:N7	2.63	0.46
2:AA:744:G:H2'	2:AA:745:G:O5'	2.15	0.46
2:AA:744:G:N2	2:AA:754:C:C2	2.83	0.46
2:AA:766:C:C2'	2:AA:767:U:H5'	2.45	0.46
2:AA:837:C:H6	2:AA:837:C:O5'	1.98	0.46
2:AA:89:G:C4	2:AA:90:U:H5	2.33	0.46
2:AA:952:G:C2'	2:AA:953:A:O5'	2.63	0.46
2:AA:984:A:C5'	2:AA:985:C:H41	2.27	0.46
1:AB:18:G:H2'	1:AB:19:G:C8	2.50	0.46
3:AC:139:ASN:OD1	3:AC:142:ALA:CB	2.62	0.46
3:AC:163:PHE:CG	3:AC:192:PHE:HE1	2.33	0.46
3:AC:29:VAL:CG2	3:AC:216:THR:HG23	2.45	0.46
4:AD:168:GLY:C	4:AD:170:TYR:H	2.18	0.46
4:AD:205:VAL:HG23	4:AD:206:LYS:H	1.80	0.46
2:AA:1568:G:C5'	4:AD:60:GLN:NE2	2.44	0.46
4:AD:93:ILE:HA	4:AD:93:ILE:HD12	1.68	0.46
5:AE:196:GLY:CA	5:AE:297:LYS:HZ3	2.27	0.46
8:AH:117:GLU:OE1	8:AH:118:GLU:N	2.48	0.46
8:AH:132:VAL:CG1	8:AH:140:VAL:HG13	2.44	0.46
8:AH:7:PRO:CA	8:AH:50:THR:OG1	2.63	0.46
9:AI:103:LYS:HD3	9:AI:114:ILE:CD1	2.45	0.46
9:AI:29:PHE:O	9:AI:34:ALA:N	2.49	0.46
2:AA:7:G:C5'	12:AM:6:PHE:HD2	2.28	0.46
14:AO:113:GLN:HB2	14:AO:115:ARG:NH2	2.30	0.46
15:AP:67:ALA:O	15:AP:70:ARG:CB	2.62	0.46
16:AQ:27:LEU:C	16:AQ:27:LEU:HD13	2.35	0.46
16:AQ:38:LYS:HZ1	16:AQ:114:LYS:CD	2.21	0.46
19:AT:39:ASP:C	19:AT:43:GLU:OE1	2.53	0.46
21:AV:19:ILE:HG23	21:AV:20:ALA:N	2.30	0.46
21:AV:39:PHE:CD2	21:AV:39:PHE:N	2.81	0.46
22:AW:43:PRO:HG2	22:AW:46:ILE:HG12	1.94	0.46
36:B1:9:C:C2	36:B1:10:U:C5	3.03	0.46
34:BA:1089:G:C2	34:BA:1097:C:N3	2.83	0.46
34:BA:1104:G:C2'	34:BA:1105:A:H5'	2.46	0.46
34:BA:1108:G:H2'	34:BA:1109:C:H5'	1.98	0.46
34:BA:1125:U:O2'	34:BA:1126:U:P	2.73	0.46
34:BA:1153:C:H2'	34:BA:1154:G:O4'	2.15	0.46
34:BA:960:U:N3	34:BA:1225:A:C6	2.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1227:A:C8	34:BA:1228:C:C1'	2.98	0.46
34:BA:1351:U:O4	44:BL:118:LYS:HE3	2.15	0.46
34:BA:1367:C:OP2	44:BL:117:HIS:CE1	2.69	0.46
34:BA:1401:G:C2'	34:BA:1402:C:C5'	2.93	0.46
34:BA:1465:C:N3	34:BA:1466:C:C4	2.83	0.46
34:BA:1503:A:C8	36:B1:57:A:C6	3.03	0.46
34:BA:1504:G:C3'	34:BA:1504:G:C8	2.97	0.46
34:BA:1539:C:O2'	34:BA:1540:U:H5''	2.15	0.46
34:BA:1540:U:H2'	34:BA:1541:U:C4'	2.46	0.46
34:BA:1541:U:C2'	34:BA:1542:U:HO3'	2.28	0.46
34:BA:189:G:C6	34:BA:190:C:N4	2.83	0.46
34:BA:232:G:C5	34:BA:233:C:C5	3.03	0.46
34:BA:322:C:O2'	55:BW:23:ARG:HB2	2.15	0.46
34:BA:55:A:H61	34:BA:357:G:H1'	1.78	0.46
34:BA:451:A:O2'	34:BA:452:A:O4'	2.33	0.46
34:BA:452:A:C4	34:BA:453:A:C8	3.03	0.46
34:BA:540:G:H8	34:BA:540:G:O5'	1.96	0.46
34:BA:61:G:C2'	34:BA:62:U:O4'	2.49	0.46
34:BA:741:G:O2'	34:BA:742:G:C5'	2.58	0.46
34:BA:830:G:C2'	34:BA:831:U:H5'	2.46	0.46
34:BA:81:U:C2	34:BA:83:U:P	3.08	0.46
34:BA:872:A:C4	34:BA:874:G:C8	3.04	0.46
34:BA:910:C:O2'	34:BA:911:U:H5'	2.15	0.46
34:BA:922:G:C6	34:BA:923:A:C6	3.03	0.46
34:BA:952:U:HO2'	34:BA:953:G:H5'	1.80	0.46
34:BA:977:A:N1	34:BA:1224:G:C4	2.83	0.46
34:BA:977:A:N3	34:BA:977:A:C2'	2.75	0.46
37:BE:77:ALA:HB1	37:BE:211:ILE:HG21	1.97	0.46
37:BE:21:ARG:HA	37:BE:39:ILE:CG1	2.18	0.46
37:BE:223:ILE:HA	37:BE:226:ARG:CD	2.45	0.46
37:BE:48:MET:SD	37:BE:51:LEU:HD12	2.55	0.46
37:BE:69:LEU:HD22	37:BE:70:PHE:N	2.30	0.46
38:BF:130:VAL:HG12	38:BF:134:ILE:CD1	2.45	0.46
39:BG:114:ARG:HA	39:BG:114:ARG:HD3	1.71	0.46
41:BI:82:ARG:C	41:BI:83:ASP:OD2	2.53	0.46
42:BJ:14:PRO:HB2	42:BJ:19:GLY:O	2.15	0.46
42:BJ:16:LEU:N	42:BJ:16:LEU:HD23	2.30	0.46
43:BK:83:ILE:HB	43:BK:137:VAL:CG2	2.45	0.46
43:BK:89:PRO:CB	43:BK:92:ARG:NH2	2.77	0.46
45:BM:30:SER:HG	45:BM:81:THR:HA	1.80	0.46
46:BN:30:VAL:O	46:BN:42:TRP:HB2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BO:72:GLY:CA	47:BO:102:ARG:NH1	2.70	0.46
47:BO:120:TYR:O	47:BO:122:THR:OG1	2.33	0.46
47:BO:84:LEU:HG	47:BO:85:ILE:H	1.80	0.46
47:BO:88:GLY:N	47:BO:98:TYR:HA	2.30	0.46
49:BQ:14:PRO:CB	49:BQ:17:LYS:O	2.62	0.46
49:BQ:4:LYS:O	49:BQ:7:ILE:HG13	2.14	0.46
52:BT:34:LYS:CG	52:BT:35:VAL:N	2.78	0.46
53:BU:31:LEU:HD13	53:BU:65:ILE:CD1	2.45	0.46
56:BX:6:ARG:C	56:BX:8:THR:N	2.68	0.46
40:BH:48:ALA:HB3	40:BH:54:ALA:N	2.30	0.46
2:AA:1017:G:C2	2:AA:1146:C:C2	3.03	0.46
24:A0:107:ASP:CG	24:A0:109:ALA:H	2.18	0.46
24:A0:34:ILE:HG23	24:A0:35:THR:H	1.79	0.46
24:A0:67:LEU:O	24:A0:69:ASP:N	2.48	0.46
25:A1:34:ASN:O	25:A1:35:ALA:C	2.51	0.46
26:A2:23:GLU:OE1	26:A2:25:LEU:HG	2.16	0.46
2:AA:855:G:O2'	27:A3:25:LYS:HD2	2.15	0.46
27:A3:26:PHE:C	27:A3:60:PHE:CD1	2.89	0.46
30:A6:42:PRO:C	30:A6:44:ALA:H	2.13	0.46
33:A9:7:VAL:HG13	33:A9:25:VAL:HG21	1.98	0.46
2:AA:1058:G:H21	11:AL:117:ASN:ND2	2.08	0.46
2:AA:1069:A:C3'	2:AA:1070:A:H5''	2.45	0.46
2:AA:1074:G:C4	2:AA:1075:C:H5	2.33	0.46
2:AA:1109:C:C5	2:AA:1110:G:C6	3.04	0.46
2:AA:1159:U:H2'	2:AA:1160:G:O5'	2.15	0.46
2:AA:1212:G:N7	2:AA:1235:G:C6	2.83	0.46
2:AA:1212:G:O2'	2:AA:1213:A:O5'	2.32	0.46
2:AA:1218:C:C2	2:AA:1219:G:C8	3.03	0.46
2:AA:1224:G:H1'	26:A2:86:HIS:HD2	1.80	0.46
2:AA:1206:G:C1'	2:AA:1242:A:N6	2.72	0.46
2:AA:136:G:H8	2:AA:136:G:OP2	1.97	0.46
2:AA:1464:C:H2'	2:AA:1465:G:C8	2.49	0.46
2:AA:1472:A:N1	2:AA:1519:G:C6	2.84	0.46
2:AA:1535:U:O2	2:AA:1535:U:O4'	2.29	0.46
2:AA:1544:C:H2'	2:AA:1545:A:C4'	2.45	0.46
2:AA:163:U:H6	2:AA:163:U:OP2	1.98	0.46
2:AA:1750:G:O2'	2:AA:1751:C:C5'	2.63	0.46
2:AA:1992:G:N2	2:AA:1995:U:C4	2.83	0.46
2:AA:563:G:C6	2:AA:2018:G:C5	3.03	0.46
2:AA:532:A:OP2	2:AA:2021:C:C4	2.68	0.46
2:AA:2026:C:O2'	2:AA:2027:G:H5'	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2029:G:O5'	2:AA:2029:G:C8	2.55	0.46
2:AA:2030:A:O3'	2:AA:2031:A:O4'	2.32	0.46
2:AA:562:U:C6	2:AA:2036:C:H5''	2.50	0.46
2:AA:2057:A:C5	2:AA:2058:A:N7	2.82	0.46
2:AA:222:A:O5'	2:AA:271(B):G:N2	2.48	0.46
2:AA:2265:U:H2'	2:AA:2265:U:O2	2.15	0.46
2:AA:2340:G:N1	2:AA:2341:G:C5	2.84	0.46
2:AA:2577:A:H8	2:AA:2577:A:O5'	1.98	0.46
2:AA:2620:C:P	5:AE:248:SER:HA	2.55	0.46
2:AA:2652:C:O2'	2:AA:2653:U:H5'	2.15	0.46
2:AA:266:G:C3'	2:AA:266:G:C8	2.98	0.46
2:AA:221:A:N6	2:AA:266:G:C4	2.80	0.46
2:AA:2694:G:N1	2:AA:2695:C:C5	2.84	0.46
2:AA:2697:G:O2'	2:AA:2698:U:H5'	2.14	0.46
2:AA:270(W):G:H2'	2:AA:270(X):G:H8	1.79	0.46
2:AA:2745:C:C2'	8:AH:142:GLU:OE2	2.64	0.46
2:AA:2817:G:C2'	2:AA:2818:G:O5'	2.63	0.46
2:AA:2888:C:C2	2:AA:2889:C:C5	3.03	0.46
2:AA:271(C):U:O4	2:AA:421:U:C2'	2.64	0.46
2:AA:432:A:C2	2:AA:433:C:N1	2.83	0.46
2:AA:487:C:N4	2:AA:488:G:C5	2.83	0.46
2:AA:542:C:H2'	2:AA:543:C:H6	1.79	0.46
2:AA:627:A:O2'	2:AA:628:G:O4'	2.33	0.46
2:AA:717:G:C2	2:AA:718:A:C1'	2.88	0.46
2:AA:780:G:C5	2:AA:782:A:N6	2.83	0.46
2:AA:669:G:N3	2:AA:801:G:C6	2.83	0.46
2:AA:8:A:C4	2:AA:9:U:C5	3.03	0.46
2:AA:943:U:C2'	2:AA:944:G:OP1	2.63	0.46
2:AA:569:U:C4'	2:AA:946:G:H1'	2.45	0.46
2:AA:950:G:C5	2:AA:951:C:C4	3.03	0.46
1:AB:10:C:O2'	1:AB:11:C:H5'	2.15	0.46
3:AC:42:GLU:CG	3:AC:173:ALA:O	2.63	0.46
4:AD:164:LEU:HD13	4:AD:174:ARG:HB2	1.97	0.46
4:AD:131:LEU:CB	4:AD:171:VAL:HG21	2.45	0.46
4:AD:76:ARG:HB3	4:AD:113:MET:CB	2.45	0.46
5:AE:205:THR:OG1	5:AE:258:TYR:CA	2.63	0.46
5:AE:221:LYS:HB2	5:AE:222:ARG:HD2	1.97	0.46
5:AE:75:THR:H	5:AE:293:TYR:HE2	1.63	0.46
6:AF:203:ALA:O	6:AF:204:ALA:C	2.53	0.46
7:AG:38:GLU:HG2	7:AG:71:ALA:HB1	1.98	0.46
7:AG:49:PRO:HB2	7:AG:72:LYS:CA	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:82:GLU:C	7:AG:85:GLN:HG3	2.34	0.46
9:AI:92:VAL:O	9:AI:95:ALA:HB3	2.14	0.46
9:AI:43:PRO:HG3	9:AJ:26:GLU:OE1	2.15	0.46
10:AK:48:GLU:O	10:AK:52:GLN:HG3	2.15	0.46
10:AK:6:LEU:HB3	10:AK:36:ALA:HB2	1.98	0.46
11:AL:38:PHE:HZ	11:AL:60:VAL:HG12	1.80	0.46
2:AA:1138:G:OP1	12:AM:57:TYR:OH	2.33	0.46
12:AM:59:LYS:O	12:AM:60:ARG:C	2.51	0.46
12:AM:61:VAL:CG1	12:AM:62:ASP:N	2.78	0.46
12:AM:73:LYS:O	12:AM:141:ALA:N	2.48	0.46
14:AO:125:PHE:H	14:AO:130:ARG:NE	2.08	0.46
14:AO:117:GLU:OE1	14:AO:136:ALA:C	2.53	0.46
15:AP:91:HIS:O	15:AP:111:THR:HA	2.16	0.46
2:AA:2378:A:C4	16:AQ:26:LEU:HD21	2.48	0.46
19:AT:42:GLU:CG	19:AT:49:VAL:HG23	2.45	0.46
20:AU:47:THR:HG22	20:AU:100:ASP:N	2.29	0.46
20:AU:33:GLU:CG	20:AU:34:GLU:N	2.77	0.46
21:AV:142:ASN:C	21:AV:171:VAL:HG21	2.35	0.46
21:AV:6:LYS:HA	21:AV:32:PHE:O	2.15	0.46
22:AW:30:ALA:O	22:AW:34:GLN:HB2	2.15	0.46
23:AX:53:LEU:CD2	23:AX:54:VAL:HG13	2.45	0.46
36:B1:10:U:H2'	36:B1:11:U:O4'	2.15	0.46
34:BA:1086:U:C4	34:BA:1099:G:C6	3.03	0.46
34:BA:1068:G:C6	34:BA:1108:G:N3	2.83	0.46
34:BA:1113:C:H2'	34:BA:1114:C:H6	1.81	0.46
34:BA:1128:C:O2'	34:BA:1130:A:C8	2.67	0.46
34:BA:1206:G:O2'	34:BA:1207:G:H5'	2.15	0.46
34:BA:979:C:OP1	34:BA:1223:C:N4	2.48	0.46
34:BA:126:G:C2	34:BA:127:G:C4	3.03	0.46
34:BA:1294:G:N1	34:BA:1295:G:C6	2.84	0.46
34:BA:924:C:H5'	34:BA:1399:C:OP2	2.16	0.46
34:BA:1428:A:C5	34:BA:1429:C:N4	2.83	0.46
34:BA:14:U:O2	34:BA:16:A:C5	2.68	0.46
34:BA:181:G:C2	34:BA:195:A:C5	3.03	0.46
34:BA:190(A):C:C2'	34:BA:190(B):C:H5'	2.45	0.46
34:BA:132:C:N3	34:BA:231:G:N2	2.63	0.46
34:BA:320:C:H42	34:BA:333:G:H1	0.58	0.46
34:BA:459:G:C5	34:BA:461:C:OP2	2.68	0.46
34:BA:531:U:OP2	34:BA:531:U:H6	1.97	0.46
34:BA:570:G:C4'	34:BA:820:U:C6	2.97	0.46
34:BA:578:C:O2	34:BA:728:A:C2	2.68	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:626:U:H5''	51:BS:38:TYR:CE2	2.49	0.46
34:BA:654:G:H8	34:BA:654:G:O5'	1.97	0.46
34:BA:668:G:H2'	34:BA:669:U:C6	2.46	0.46
34:BA:75:G:H2'	34:BA:76:C:C6	2.50	0.46
34:BA:851:G:O2'	34:BA:852:G:H5'	2.16	0.46
34:BA:898:G:H2'	34:BA:900:A:OP2	2.15	0.46
34:BA:991:U:O2'	34:BA:993:G:C1'	2.53	0.46
35:BB:75:C:C6	35:BB:76:A:C2	2.86	0.46
35:BC:10:G:C8	35:BC:26:G:N2	2.83	0.46
35:BC:4:G:C5	35:BC:5:A:C8	3.02	0.46
37:BE:145:LEU:O	37:BE:149:LEU:CB	2.29	0.46
37:BE:178:ARG:O	43:BK:71:GLY:O	2.34	0.46
37:BE:71:VAL:HG22	37:BE:93:VAL:H	1.80	0.46
39:BG:148:VAL:HG12	39:BG:152:SER:HB2	1.97	0.46
40:BH:122:GLU:OE1	40:BH:126:ARG:HG2	2.16	0.46
42:BJ:121:ALA:O	42:BJ:125:MET:HG2	2.15	0.46
42:BJ:137:LYS:O	42:BJ:140:ASP:HB2	2.14	0.46
42:BJ:25:ALA:O	42:BJ:28:ASN:CB	2.63	0.46
42:BJ:8:GLU:O	42:BJ:8:GLU:OE1	2.34	0.46
44:BL:50:LEU:HD21	44:BL:55:ALA:O	2.15	0.46
45:BM:39:PRO:O	45:BM:40:LEU:CB	2.64	0.46
45:BM:48:THR:HA	45:BM:62:HIS:HB3	1.96	0.46
46:BN:54:ARG:HD3	46:BN:54:ARG:N	2.29	0.46
46:BN:21:ILE:HD13	46:BN:95:ILE:HG23	1.98	0.46
47:BO:70:ILE:HA	47:BO:100:ILE:HG12	1.97	0.46
34:BA:35:G:N2	47:BO:118:SER:OG	2.48	0.46
34:BA:950:U:OP2	48:BP:102:ARG:NH2	2.49	0.46
48:BP:34:LEU:HD13	48:BP:41:PRO:CB	2.45	0.46
48:BP:55:ARG:O	48:BP:57:ARG:N	2.47	0.46
51:BS:3:LYS:CE	51:BS:24:ALA:HB2	2.44	0.46
51:BS:75:ARG:O	51:BS:76:GLN:C	2.53	0.46
53:BU:56:THR:C	53:BU:58:LEU:HG	2.36	0.46
54:BV:11:VAL:CG1	54:BV:38:SER:OG	2.58	0.46
10:AK:103:GLN:NE2	10:AK:109:LYS:HA	2.30	0.46
10:AK:115:ILE:H	10:AK:131:VAL:HG13	1.81	0.46
23:AX:3:ARG:CG	23:AX:60:GLU:HG2	2.45	0.46
38:BF:153:VAL:CG2	38:BF:166:GLU:HB3	2.44	0.46
36:B1:36:A:C6	36:B1:37:C:H1'	2.50	0.46
2:AA:257:A:C3'	2:AA:257:A:C8	2.99	0.46
2:AA:2246:G:C2	2:AA:2247:A:N7	2.83	0.46
2:AA:2108:C:C5	2:AA:2109:U:C4	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BI:47:ARG:HH11	41:BI:47:ARG:CG	2.28	0.46
2:AA:1252:G:H1'	25:A1:33:ARG:HD3	1.97	0.46
25:A1:31:GLN:C	25:A1:35:ALA:HB2	2.36	0.46
25:A1:34:ASN:O	25:A1:38:THR:OG1	2.33	0.46
25:A1:54:LYS:O	25:A1:57:PHE:HB2	2.15	0.46
26:A2:18:ASP:CG	26:A2:18:ASP:O	2.54	0.46
26:A2:39:PHE:CZ	26:A2:41:GLY:C	2.88	0.46
25:A1:20:ARG:NH1	26:A2:75:LYS:HG2	2.30	0.46
26:A2:95:ILE:CD1	26:A2:95:ILE:N	2.70	0.46
2:AA:856:C:H4'	27:A3:24:LYS:HB2	1.96	0.46
27:A3:35:ASN:HD22	27:A3:40:GLN:NE2	2.13	0.46
28:A4:7:PRO:HG2	28:A4:56:VAL:CG1	2.44	0.46
29:A5:17:ASP:O	29:A5:18:MET:C	2.54	0.46
29:A5:35:GLN:HA	29:A5:37:HIS:CD2	2.51	0.46
32:A8:52:LYS:HE3	32:A8:52:LYS:HB2	1.63	0.46
33:A9:11:CYS:C	33:A9:11:CYS:SG	2.94	0.46
2:AA:1080:C:O2'	11:AL:126:LYS:CB	2.64	0.46
2:AA:1365:A:N6	2:AA:1366:A:N6	2.63	0.46
2:AA:1378:A:C8	2:AA:1380:G:C5	3.03	0.46
2:AA:1447:G:H1'	2:AA:545(A):A:C1'	2.45	0.46
2:AA:145:G:C4	2:AA:146:G:C8	3.04	0.46
2:AA:131:G:H1	2:AA:149:A:N6	2.11	0.46
2:AA:1578:U:C2'	2:AA:1579:A:O5'	2.63	0.46
2:AA:1343:G:H5'	2:AA:1598:C:OP2	2.15	0.46
2:AA:1670:C:H2'	2:AA:1671:U:C4'	2.46	0.46
2:AA:1673:U:H2'	2:AA:1674:G:O5'	2.13	0.46
2:AA:1708:C:H2'	2:AA:1709:U:H5'	1.97	0.46
2:AA:1717:G:H2'	2:AA:1717:G:N3	2.30	0.46
2:AA:175:G:O2'	2:AA:176:G:H5'	2.15	0.46
2:AA:1819:A:H2'	4:AD:177:SER:HA	1.96	0.46
2:AA:1910:G:C6	2:AA:1911:U:C4	3.03	0.46
2:AA:1920:C:H5''	34:BA:1517:G:C5	2.50	0.46
2:AA:195:A:P	2:AA:196:A:H4'	2.53	0.46
2:AA:2014:A:N7	2:AA:2015:A:C6	2.83	0.46
2:AA:2026:C:O2	2:AA:2027:G:O4'	2.33	0.46
2:AA:202:U:H6	2:AA:202:U:H3'	1.80	0.46
2:AA:2047:U:O2'	2:AA:2048:G:P	2.73	0.46
2:AA:2126:A:OP2	2:AA:2126:A:C4'	2.63	0.46
2:AA:221:A:C8	2:AA:221:A:C3'	2.94	0.46
2:AA:2313:C:H2'	2:AA:2314:C:C6	2.51	0.46
2:AA:2331:G:H2'	2:AA:2332:U:N1	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2400:G:O3'	30:A6:20:PHE:HZ	1.98	0.46
2:AA:2078:C:H5''	2:AA:2434:A:H5'	1.93	0.46
2:AA:2443:C:O2'	2:AA:2444:G:H5'	2.13	0.46
2:AA:2464:C:C2	2:AA:2486:G:N2	2.78	0.46
2:AA:2488:A:O2'	2:AA:2489:G:C5'	2.60	0.46
2:AA:2550:G:H2'	2:AA:2551:C:H6	1.79	0.46
2:AA:2579:C:C4	2:AA:2580:U:C6	3.03	0.46
2:AA:2553:G:C2	2:AA:2583:G:C1'	2.95	0.46
2:AA:2604:U:O2	2:AA:2605:U:C6	2.67	0.46
2:AA:2664:G:H2'	2:AA:2665:A:OP2	2.15	0.46
2:AA:2683:C:C4	2:AA:2684:U:C5	3.03	0.46
2:AA:2687:U:O2	2:AA:2688:U:O4'	2.34	0.46
2:AA:270:A:C2'	2:AA:270(A):A:H4'	2.37	0.46
2:AA:271(C):U:O2'	2:AA:271:G:O5'	2.33	0.46
2:AA:2736:G:H2'	2:AA:2737:G:O5'	2.15	0.46
2:AA:2754:U:H2'	2:AA:2756:U:OP2	2.14	0.46
2:AA:2638:G:C8	2:AA:2775:A:N1	2.83	0.46
2:AA:2631:G:H21	2:AA:2810:A:H1'	1.80	0.46
2:AA:302:C:C2'	2:AA:303:U:O5'	2.63	0.46
2:AA:332:A:O2'	2:AA:333:G:P	2.73	0.46
2:AA:500:G:O5'	2:AA:500:G:H8	1.99	0.46
2:AA:545(A):A:C3'	2:AA:545(A):A:C8	2.99	0.46
2:AA:614:U:C5	2:AA:615:G:O2'	2.68	0.46
2:AA:670:A:H4'	2:AA:671:C:OP1	2.14	0.46
2:AA:725:G:C2	2:AA:726:G:N2	2.83	0.46
2:AA:777:A:C2	2:AA:778:G:C5	3.03	0.46
2:AA:777:A:H2'	2:AA:778:G:C5'	2.45	0.46
2:AA:817:C:H6	2:AA:817:C:O5'	1.99	0.46
2:AA:822:U:C2	2:AA:823:G:C8	3.03	0.46
2:AA:879:G:C2	2:AA:880:G:C8	3.03	0.46
2:AA:885:C:C6	2:AA:885:C:C3'	2.98	0.46
2:AA:928:G:C2'	2:AA:929:G:C4	2.97	0.46
1:AB:56:G:C4'	1:AB:57:A:H5'	2.35	0.46
1:AB:61:G:N1	1:AB:62:C:N4	2.63	0.46
1:AB:69:G:N1	1:AB:70:C:C4	2.84	0.46
1:AB:8:U:O2	1:AB:9:G:N7	2.49	0.46
3:AC:22:ILE:HD13	3:AC:189:ILE:HG22	1.97	0.46
4:AD:201:ASP:HB2	4:AD:202:LYS:H	1.55	0.46
2:AA:2679:A:C5'	5:AE:261:ARG:CZ	2.90	0.46
5:AE:82:ALA:CB	5:AE:99:VAL:H	2.25	0.46
6:AF:115:LEU:O	6:AF:118:THR:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:193:LEU:HD11	6:AF:231:ARG:HB2	1.96	0.46
6:AF:221:GLU:O	6:AF:222:ASP:C	2.51	0.46
6:AF:233:THR:OG1	6:AF:235:PHE:CE1	2.67	0.46
6:AF:195:VAL:CG1	6:AF:235:PHE:CD2	2.89	0.46
6:AF:237:GLU:C	6:AF:239:ALA:N	2.67	0.46
7:AG:98:PHE:C	7:AG:104:PHE:HD2	2.18	0.46
7:AG:19:GLU:CD	7:AG:135:VAL:HG13	2.33	0.46
8:AH:96:SER:HA	8:AH:124:VAL:CG2	2.45	0.46
8:AH:7:PRO:CA	8:AH:50:THR:HG1	2.28	0.46
8:AH:37:HIS:CE1	8:AH:67:THR:HG1	2.30	0.46
9:AI:38:ALA:HA	9:AI:41:ALA:HB3	1.96	0.46
9:AJ:78:ARG:HH22	11:AL:59:THR:CB	2.29	0.46
11:AL:132:ALA:C	11:AL:137:ILE:HB	2.34	0.46
11:AL:46:THR:CG2	11:AL:54:LEU:HD12	2.29	0.46
11:AL:55:PRO:CD	11:AL:73:PRO:CA	2.93	0.46
12:AM:18:ILE:HG21	12:AM:21:ARG:HD3	1.96	0.46
12:AM:21:ARG:CA	12:AM:24:SER:OG	2.63	0.46
12:AM:52:GLN:HA	12:AM:55:GLU:OE2	2.16	0.46
12:AM:5:GLU:CD	12:AM:6:PHE:N	2.68	0.46
12:AM:65:ASN:ND2	12:AM:69:TYR:CG	2.83	0.46
2:AA:1138:G:OP1	12:AM:82:THR:CA	2.63	0.46
12:AM:82:THR:O	12:AM:85:GLY:N	2.47	0.46
2:AA:558:G:P	12:AM:92:GLN:N	2.88	0.46
13:AN:17:ARG:HE	13:AN:47:THR:CA	2.27	0.46
14:AO:61:ALA:HB1	14:AO:107:LYS:CE	2.44	0.46
15:AP:35:ASN:OD1	21:AV:114:ASP:OD1	2.33	0.46
15:AP:86:ARG:CZ	15:AP:123:ILE:CD1	2.85	0.46
16:AQ:118:ILE:CG2	16:AQ:119:GLN:N	2.78	0.46
13:AN:101:PRO:CD	17:AR:26:GLY:HA2	2.44	0.46
18:AS:88:ARG:HB3	18:AS:91:GLY:H	1.81	0.46
19:AT:7:HIS:ND1	19:AT:8:PRO:O	2.48	0.46
20:AU:105:ASP:HB2	20:AU:108:ARG:CD	2.46	0.46
20:AU:34:GLU:HB3	20:AU:35:TYR:CE2	2.51	0.46
20:AU:81:LYS:HD2	20:AU:83:ASP:CG	2.35	0.46
21:AV:46:GLN:O	21:AV:47:SER:O	2.32	0.46
21:AV:79:ILE:HG22	21:AV:80:HIS:CE1	2.50	0.46
22:AW:10:ASP:O	22:AW:12:THR:N	2.49	0.46
23:AX:37:LEU:CD1	23:AX:43:ILE:HG23	2.45	0.46
34:BA:1057:G:H2'	34:BA:1058:G:C8	2.44	0.46
34:BA:1064:G:N3	34:BA:1066:C:N3	2.64	0.46
34:BA:17:U:H1'	34:BA:1079:G:H21	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:113:G:C8	34:BA:114:U:C5	3.00	0.46
34:BA:1269:A:H5'	34:BA:1326:C:C5'	2.44	0.46
34:BA:1441:G:H1'	34:BA:1461:G:H22	1.81	0.46
34:BA:149:A:C2	34:BA:150:C:C4	3.02	0.46
34:BA:152:A:C8	34:BA:153:C:C6	3.04	0.46
34:BA:20:U:N3	34:BA:21:G:C6	2.84	0.46
34:BA:225:C:O2'	34:BA:226:G:H5'	2.15	0.46
34:BA:248:C:H4'	34:BA:283:C:H1'	1.96	0.46
34:BA:259:G:N2	34:BA:260:G:N3	2.62	0.46
34:BA:264:U:C2'	34:BA:264:U:O2	2.63	0.46
34:BA:265:G:O2'	34:BA:266:G:C5'	2.61	0.46
34:BA:285:G:N3	34:BA:286:G:C8	2.84	0.46
34:BA:28:G:C6	34:BA:29:G:N7	2.83	0.46
34:BA:315:A:N3	34:BA:315:A:H2'	2.30	0.46
34:BA:449:C:N4	34:BA:450:G:N3	2.63	0.46
34:BA:47:C:H4'	34:BA:48:C:H5'	1.92	0.46
34:BA:695:A:H2'	34:BA:696:A:C8	2.49	0.46
34:BA:695:A:N6	34:BA:696:A:C6	2.84	0.46
34:BA:696:A:O2'	34:BA:697:U:H5'	2.14	0.46
34:BA:687:A:C5	34:BA:701:C:C5	3.04	0.46
34:BA:714:G:O2'	34:BA:715:A:H5'	2.16	0.46
34:BA:579:G:C5'	34:BA:728:A:O2'	2.60	0.46
34:BA:750:G:C2	34:BA:751:U:C6	3.03	0.46
34:BA:768:A:N6	34:BA:769:G:C6	2.84	0.46
34:BA:784:C:H2'	34:BA:785:G:H8	1.81	0.46
34:BA:22:G:C5'	34:BA:885:G:O4'	2.57	0.46
34:BA:894:G:C6	34:BA:895:G:C5	3.03	0.46
34:BA:990:C:O2'	34:BA:991:U:O4'	2.27	0.46
35:BB:48:C:C4	35:BB:59:U:C2	3.03	0.46
35:BB:59:U:H3	35:BB:60:C:N4	2.07	0.46
35:BB:15:G:C2	35:BB:60:C:O2	2.67	0.46
35:BC:33:U:C3'	35:BC:33:U:H6	2.27	0.46
37:BE:170:GLU:HG3	37:BE:173:ALA:HB3	1.96	0.46
38:BF:28:GLN:CA	38:BF:30:ARG:NH1	2.78	0.46
38:BF:87:LEU:HB2	38:BF:101:LEU:CD1	2.45	0.46
39:BG:124:GLY:O	39:BG:126:ILE:N	2.40	0.46
39:BG:50:ARG:HD3	39:BG:51:PRO:CD	2.44	0.46
34:BA:922:G:H4'	40:BH:20:GLN:HA	1.97	0.46
41:BI:45:LEU:HD23	41:BI:59:TYR:HA	1.97	0.46
41:BI:52:ILE:HD13	41:BI:87:ARG:NH1	2.31	0.46
42:BJ:69:VAL:CG2	42:BJ:104:LEU:HD11	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BJ:17:VAL:CG1	42:BJ:17:VAL:O	2.63	0.46
43:BK:133:LEU:N	43:BK:133:LEU:HD23	2.31	0.46
43:BK:9:MET:C	43:BK:13:ILE:CD1	2.83	0.46
44:BL:16:ARG:HH11	44:BL:64:THR:HG21	1.80	0.46
44:BL:17:VAL:HA	44:BL:63:ILE:HG13	1.95	0.46
45:BM:65:LEU:HD13	49:BQ:36:PHE:CZ	2.50	0.46
46:BN:44:SER:OG	46:BN:47:VAL:HG23	2.14	0.46
50:BR:41:GLU:HA	50:BR:44:LYS:NZ	2.30	0.46
50:BR:39:LEU:CD1	50:BR:56:LEU:HD13	2.43	0.46
50:BR:59:MET:C	50:BR:59:MET:SD	2.94	0.46
51:BS:22:THR:HA	51:BS:33:ILE:HG13	1.97	0.46
54:BV:63:THR:HB	54:BV:66:MET:HE3	1.97	0.46
55:BW:57:ARG:HG2	55:BW:57:ARG:NH1	2.30	0.46
35:BB:10:G:O2'	35:BB:11:C:H5'	2.15	0.46
22:AW:39:ALA:CB	22:AW:40:PRO:CD	2.78	0.46
3:AC:177:LYS:C	3:AC:179:SER:H	2.17	0.46
36:B1:14:U:OP1	36:B1:38:C:N4	2.48	0.46
37:BE:124:SER:OG	37:BE:126:GLU:CD	2.53	0.46
1:AB:1:U:H3'	1:AB:1:U:C6	2.50	0.46
7:AG:61:PHE:HD1	7:AG:61:PHE:N	2.14	0.46
7:AG:10:PHE:C	7:AG:12:GLU:N	2.67	0.46
39:BG:167:GLY:O	39:BG:168:ARG:C	2.54	0.46
41:BI:47:ARG:HH11	41:BI:47:ARG:HG2	1.79	0.46
24:A0:73:VAL:C	24:A0:77:ARG:NH1	2.68	0.46
25:A1:95:LEU:O	25:A1:96:ALA:C	2.52	0.46
2:AA:996:A:H4'	26:A2:10:LYS:HD2	1.96	0.46
26:A2:20:ILE:O	26:A2:21:ARG:NE	2.48	0.46
26:A2:73:LYS:HG2	26:A2:87:ARG:CG	2.46	0.46
26:A2:76:SER:OG	26:A2:76:SER:O	2.34	0.46
28:A4:17:GLN:HG2	28:A4:33:VAL:CG1	2.41	0.46
28:A4:6:HIS:CB	28:A4:56:VAL:HG22	2.43	0.46
29:A5:13:LYS:CD	29:A5:14:SER:N	2.78	0.46
29:A5:42:SER:O	29:A5:42:SER:OG	2.34	0.46
30:A6:12:MET:SD	30:A6:54:LYS:HB3	2.56	0.46
32:A8:19:THR:HB	32:A8:21:LYS:HZ1	1.78	0.46
2:AA:1164:G:C2'	2:AA:1165:U:O5'	2.64	0.46
2:AA:1213:A:C6	2:AA:1214:A:N7	2.84	0.46
2:AA:1219:G:C2	2:AA:1229:G:O6	2.67	0.46
2:AA:1279:G:C5	2:AA:1280:G:N7	2.84	0.46
2:AA:1291:C:H4'	2:AA:1537:C:O2'	2.15	0.46
2:AA:1340:U:H4'	2:AA:1394:U:H1'	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1403:C:C2	2:AA:1404:C:C6	3.03	0.46
2:AA:1403:C:H2'	2:AA:1404:C:O5'	2.15	0.46
2:AA:1428:C:O2'	2:AA:1429:G:P	2.72	0.46
2:AA:1442:G:C2	2:AA:1443:G:C5	3.04	0.46
2:AA:1492:G:C2'	2:AA:1493:C:C6	2.99	0.46
2:AA:1540:G:C2'	2:AA:1541:U:O5'	2.63	0.46
2:AA:1649:G:N2	2:AA:1650:G:N7	2.63	0.46
2:AA:1717:G:N1	2:AA:1718:G:N3	2.64	0.46
2:AA:1707:G:C1'	2:AA:1756:G:H1'	2.43	0.46
2:AA:18:C:C2	2:AA:19:C:C5	3.03	0.46
2:AA:1916:A:C8	2:AA:1916:A:P	3.03	0.46
2:AA:1935:G:C2'	2:AA:1962:C:H42	2.28	0.46
2:AA:1935:G:C2	2:AA:1962:C:N1	2.83	0.46
2:AA:2058:A:C4	2:AA:2059:A:C8	3.04	0.46
2:AA:2115:G:H2'	2:AA:2116:G:OP1	2.15	0.46
2:AA:2128:C:C3'	2:AA:2129:C:H5'	2.45	0.46
2:AA:2150:U:H5''	2:AA:2151:G:OP1	2.16	0.46
2:AA:2255:G:H2'	2:AA:2255:G:N3	2.30	0.46
2:AA:2316:C:C5'	7:AG:142:ALA:CB	2.82	0.46
2:AA:2338:G:C8	2:AA:2338:G:H3'	2.50	0.46
2:AA:2289:G:OP1	2:AA:2385:C:OP1	2.33	0.46
2:AA:2244:U:O2'	2:AA:2434:A:N7	2.33	0.46
2:AA:243:U:C2'	2:AA:243:U:O2	2.61	0.46
2:AA:253:C:C2'	2:AA:254:G:C5'	2.87	0.46
2:AA:2569:G:C4	2:AA:2570:G:C8	3.04	0.46
2:AA:2626:C:N3	2:AA:2627:G:N7	2.62	0.46
2:AA:222:A:C8	2:AA:271(B):G:N2	2.84	0.46
2:AA:2724:C:O2	2:AA:2724:C:C2'	2.62	0.46
2:AA:2637:U:O2	2:AA:2782:G:C2	2.68	0.46
2:AA:2786:U:H2'	2:AA:2787:C:C6	2.50	0.46
2:AA:2786:U:H6	2:AA:2786:U:O5'	1.98	0.46
2:AA:2831:G:H5''	2:AA:2834:G:O2'	2.15	0.46
2:AA:2720:U:O4	2:AA:2872:G:C6	2.69	0.46
2:AA:354:G:N2	2:AA:355:G:N7	2.63	0.46
2:AA:384:U:C2'	2:AA:385:C:O5'	2.64	0.46
2:AA:412:A:C2	2:AA:413:C:C1'	2.89	0.46
2:AA:419:C:C2	2:AA:420:C:C6	3.04	0.46
2:AA:271(C):U:O4	2:AA:421:U:C1'	2.63	0.46
2:AA:464:U:C2'	2:AA:465:G:H5'	2.45	0.46
2:AA:542:C:O2'	2:AA:543:C:C5'	2.63	0.46
2:AA:547:A:H2'	2:AA:547:A:N3	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:566:U:OP2	26:A2:81:ARG:CZ	2.63	0.46
2:AA:630:G:N1	2:AA:634:C:C4	2.84	0.46
2:AA:697:C:HO2'	2:AA:698:C:H5''	1.69	0.46
2:AA:780:G:N3	2:AA:785:G:O6	2.48	0.46
2:AA:7:G:OP1	12:AM:6:PHE:HE2	1.99	0.46
2:AA:890:A:H5'	2:AA:892:G:C5'	2.45	0.46
2:AA:66:C:N3	2:AA:89:G:C6	2.84	0.46
2:AA:919:G:C2	2:AA:920:G:C5	3.03	0.46
3:AC:19:ILE:HG23	3:AC:224:ILE:HA	1.96	0.46
3:AC:22:ILE:HD11	3:AC:193:ILE:CD1	2.36	0.46
4:AD:117:SER:OG	4:AD:127:ASN:HA	2.15	0.46
5:AE:193:PHE:CD2	5:AE:199:ALA:HB2	2.49	0.46
5:AE:309:PRO:O	5:AE:309:PRO:HG2	2.16	0.46
5:AE:70:VAL:HG13	5:AE:296:VAL:C	2.34	0.46
6:AF:114:ALA:O	6:AF:117:ALA:N	2.48	0.46
2:AA:2310:A:N1	7:AG:55:LYS:HD3	2.31	0.46
9:AI:24:LYS:O	9:AI:27:ASP:CB	2.62	0.46
9:AI:59:PHE:CE1	9:AI:108:LYS:HG2	2.50	0.46
9:AI:7:ILE:O	9:AI:11:GLU:HG3	2.15	0.46
9:AI:80:ILE:CG2	9:AI:81:THR:HG23	2.37	0.46
9:AJ:99:ASP:C	9:AJ:101:VAL:H	2.17	0.46
9:AJ:112:GLU:O	9:AJ:116:LYS:HG3	2.16	0.46
11:AL:54:LEU:CD2	11:AL:73:PRO:HG3	2.46	0.46
12:AM:42:GLU:HA	12:AM:133:GLY:HA2	1.96	0.46
13:AN:10:VAL:CG2	13:AN:17:ARG:N	2.78	0.46
13:AN:17:ARG:O	13:AN:18:GLU:HG3	2.15	0.46
15:AP:102:ARG:O	15:AP:104:PRO:HD3	2.15	0.46
15:AP:97:ASP:O	15:AP:97:ASP:OD2	2.33	0.46
16:AQ:68:GLU:O	16:AQ:69:TYR:C	2.53	0.46
16:AQ:76:GLY:O	16:AQ:82:TYR:N	2.48	0.46
17:AR:7:ASP:OD1	17:AR:30:HIS:N	2.48	0.46
19:AT:33:SER:O	19:AT:37:VAL:CB	2.45	0.46
20:AU:69:LYS:O	20:AU:70:ALA:HB3	2.15	0.46
21:AV:106:GLY:CA	21:AV:141:MET:O	2.63	0.46
21:AV:3:LEU:CD2	21:AV:38:ALA:CB	2.93	0.46
21:AV:78:PRO:O	21:AV:79:ILE:HG12	2.15	0.46
36:B1:50:G:N1	36:B1:51:G:C6	2.83	0.46
34:BA:1057:G:C2'	34:BA:1058:G:O5'	2.64	0.46
34:BA:1067:A:H3'	34:BA:1093:A:H4'	1.97	0.46
34:BA:1101:A:O2'	34:BA:1102:A:O4'	2.30	0.46
34:BA:1118:C:H1'	34:BA:1179:A:C8	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1248:A:N1	34:BA:1249:C:N3	2.63	0.46
34:BA:978:A:C6	34:BA:1319:A:H2	2.32	0.46
34:BA:1480:G:C6	34:BA:1481:U:O2	2.68	0.46
34:BA:191:G:C4	55:BW:105:SER:HB2	2.51	0.46
34:BA:270:A:C6	34:BA:271:C:C4	3.03	0.46
34:BA:29:G:O2'	34:BA:30:U:H5'	2.15	0.46
34:BA:404:U:H2'	34:BA:405:U:H6	1.80	0.46
34:BA:530:G:N1	35:BB:34:G:H1'	2.29	0.46
34:BA:750:G:N3	50:BR:23:GLY:C	2.69	0.46
34:BA:841:U:O2'	34:BA:848:C:OP1	2.32	0.46
34:BA:568:G:N2	34:BA:883:C:H1'	2.31	0.46
34:BA:900:A:N7	34:BA:901:A:N6	2.61	0.46
34:BA:969:A:O2'	34:BA:970:C:H5'	2.16	0.46
34:BA:988:G:N1	34:BA:989:C:C2	2.83	0.46
35:BC:3:G:C6	35:BC:70:C:N3	2.79	0.46
35:BC:75:C:C6	35:BC:75:C:H3'	2.51	0.46
37:BE:167:PRO:CG	37:BE:192:SER:CB	2.94	0.46
37:BE:193:ASP:OD2	37:BE:196:LEU:CG	2.63	0.46
37:BE:218:ALA:O	37:BE:219:VAL:C	2.54	0.46
37:BE:58:ILE:CG2	37:BE:221:LEU:HD12	2.43	0.46
38:BF:115:LEU:O	38:BF:116:VAL:C	2.54	0.46
38:BF:182:ILE:CG2	38:BF:203:PHE:HA	2.26	0.46
38:BF:59:ARG:HG3	38:BF:64:VAL:N	2.31	0.46
39:BG:105:VAL:HG12	39:BG:111:ALA:HB3	1.98	0.46
39:BG:83:SER:N	39:BG:89:THR:CG2	2.76	0.46
40:BH:105:VAL:O	40:BH:109:ILE:HB	2.16	0.46
42:BJ:76:ARG:HB3	42:BJ:156:TRP:CH2	2.50	0.46
42:BJ:87:VAL:HG13	42:BJ:154:TYR:CB	2.42	0.46
43:BK:82:HIS:CB	43:BK:138:TRP:NE1	2.78	0.46
43:BK:85:ARG:NH1	43:BK:85:ARG:CG	2.76	0.46
44:BL:99:LEU:O	44:BL:101:PHE:CD1	2.68	0.46
46:BN:82:VAL:HB	46:BN:108:ILE:HG12	1.98	0.46
46:BN:73:MET:O	46:BN:76:GLY:N	2.49	0.46
47:BO:102:ARG:HB3	47:BO:108:ALA:C	2.36	0.46
34:BA:529:G:C6	47:BO:49:ASN:CG	2.89	0.46
34:BA:1226:C:N3	48:BP:104:ARG:HG3	2.30	0.46
50:BR:15:PHE:N	50:BR:15:PHE:CD1	2.83	0.46
51:BS:7:ALA:CB	51:BS:9:PHE:CE2	2.97	0.46
53:BU:26:LEU:HD22	53:BU:39:VAL:HG13	1.97	0.46
53:BU:56:THR:OG1	53:BU:63:GLN:NE2	2.49	0.46
53:BU:61:LYS:HD2	53:BU:64:ARG:NH2	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BU:74:ARG:HH11	53:BU:74:ARG:CG	2.26	0.46
54:BV:36:ARG:CZ	54:BV:72:GLY:CA	2.93	0.46
55:BW:30:LYS:HZ3	55:BW:30:LYS:CB	2.22	0.46
35:BB:37:G:C2'	35:BB:38:A:H5'	2.46	0.46
10:AK:114:LYS:HZ2	10:AK:133:LEU:CD2	2.28	0.46
35:BB:22:G:C4	35:BB:23:A:C8	3.04	0.46
1:AB:12:C:H41	27:A3:50:GLY:N	2.11	0.46
10:AK:134:HIS:CG	10:AK:135:PRO:HD2	2.51	0.46
10:AK:66:LYS:HB3	10:AK:69:LYS:NZ	2.29	0.46
24:A0:105:ARG:CG	24:A0:105:ARG:HH11	2.29	0.46
25:A1:52:ASN:O	25:A1:55:ARG:HG3	2.16	0.46
26:A2:31:ASP:O	26:A2:63:HIS:HB2	2.15	0.46
26:A2:60:VAL:HG12	26:A2:61:VAL:N	2.30	0.46
26:A2:69:ILE:CG2	26:A2:89:ASN:C	2.81	0.46
2:AA:857:C:OP1	27:A3:56:ASP:OD2	2.33	0.46
28:A4:59:PHE:C	28:A4:61:LYS:N	2.69	0.46
2:AA:2021:C:OP1	29:A5:15:LYS:HE3	2.16	0.46
30:A6:21:TYR:CE1	30:A6:43:VAL:CG2	2.92	0.46
2:AA:54:G:C2'	31:A7:35:ARG:HH22	2.28	0.46
2:AA:1055:G:N9	9:AI:28:LYS:NZ	2.51	0.46
2:AA:106:C:O2'	2:AA:107:C:H5''	2.14	0.46
2:AA:1152:C:C2'	2:AA:1153:C:C5'	2.87	0.46
2:AA:1156:A:C2'	2:AA:1157:G:OP1	2.63	0.46
2:AA:1195:G:C2	2:AA:1196:C:C6	3.03	0.46
2:AA:1229:G:C5	2:AA:1230:C:C2	3.03	0.46
2:AA:1232:G:C6	2:AA:1233:C:C4	3.03	0.46
2:AA:1265:A:H8	2:AA:1267:U:N3	2.11	0.46
2:AA:1397:U:C2'	2:AA:1398:C:OP1	2.63	0.46
2:AA:1429:G:C2'	2:AA:1430:C:C6	2.83	0.46
2:AA:1594:G:HO2'	2:AA:1595:G:H5'	1.81	0.46
2:AA:1603:A:C2	2:AA:1604:C:H5	2.34	0.46
2:AA:1394:U:C4'	2:AA:1603:A:H4'	2.43	0.46
2:AA:1324:G:C4'	2:AA:1616:A:N6	2.77	0.46
2:AA:1649:G:N2	2:AA:1650:G:C8	2.83	0.46
2:AA:1664:A:C2	2:AA:2726:U:N3	2.83	0.46
2:AA:1664:A:P	2:AA:1664:A:H8	2.37	0.46
2:AA:1687:G:C2	2:AA:1688:U:C4	3.03	0.46
2:AA:1911:U:HO2'	2:AA:1912:A:H5'	1.76	0.46
2:AA:1941:C:N4	2:AA:1942:C:C4	2.83	0.46
2:AA:2004:G:C6	2:AA:2005:A:C5	3.04	0.46
2:AA:2008:C:N4	2:AA:2009:G:C6	2.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2010:G:C6	2:AA:2011:U:C6	3.03	0.46
2:AA:2078:C:C2	2:AA:2079:U:C5	3.04	0.46
2:AA:2132:U:P	3:AC:5:LYS:HA	2.55	0.46
2:AA:2320:A:N7	16:AQ:9:PRO:HD3	2.31	0.46
2:AA:241:A:O4'	2:AA:241:A:OP1	2.33	0.46
2:AA:2450:A:C2'	2:AA:2451:A:C5'	2.84	0.46
2:AA:2468:G:N2	2:AA:2481:G:C4	2.83	0.46
2:AA:2494:G:C2	2:AA:2495:G:C5	3.04	0.46
2:AA:24:G:O6	2:AA:516:C:N3	2.49	0.46
2:AA:2542:A:H4'	2:AA:2543:G:OP1	2.14	0.46
2:AA:242:G:C2'	2:AA:254:G:H1	2.26	0.46
2:AA:2578:G:HO2'	2:AA:2579:C:P	2.34	0.46
2:AA:2611:U:C6	2:AA:2611:U:H5'	2.43	0.46
2:AA:2660:A:N6	2:AA:2661:G:C2	2.83	0.46
2:AA:2717:G:O2'	2:AA:2718:G:O5'	2.24	0.46
2:AA:2756:U:O2'	2:AA:2757:A:O5'	2.33	0.46
2:AA:278:A:N1	2:AA:363:G:C2	2.83	0.46
2:AA:2811:G:N1	2:AA:2891:G:C2	2.83	0.46
2:AA:2842:G:O2'	2:AA:2843:G:H5'	2.15	0.46
2:AA:284:U:N3	2:AA:357:A:C6	2.83	0.46
2:AA:448:U:O2	2:AA:448:U:C2'	2.64	0.46
2:AA:482:A:N7	2:AA:506:G:C2	2.83	0.46
2:AA:535:C:C2'	2:AA:536:A:H5'	2.46	0.46
2:AA:616:A:C2	2:AA:617:G:N2	2.83	0.46
2:AA:628:G:C8	2:AA:628:G:O5'	2.65	0.46
2:AA:674:G:N1	2:AA:807:U:C4	2.83	0.46
2:AA:684:G:N1	2:AA:775:G:N7	2.63	0.46
2:AA:464:U:N1	2:AA:788:A:N1	2.64	0.46
2:AA:814:C:N3	2:AA:815:C:C5	2.84	0.46
2:AA:820:A:H1'	2:AA:943:U:O2	2.15	0.46
2:AA:846:C:O2'	2:AA:847:U:O5'	2.34	0.46
2:AA:881:G:C2'	2:AA:882:G:H5'	2.46	0.46
2:AA:881:G:C5	2:AA:882:G:C8	3.04	0.46
2:AA:90:U:OP1	2:AA:90:U:H6	1.97	0.46
2:AA:932:G:O2'	2:AA:933:A:C8	2.65	0.46
2:AA:959:A:N6	2:AA:960:A:H62	2.06	0.46
2:AA:961:C:O2'	2:AA:962:G:OP1	2.31	0.46
1:AB:33:G:C2'	1:AB:34:U:H6	2.23	0.46
1:AB:89:G:C4	1:AB:89(A):A:N6	2.84	0.46
3:AC:104:LEU:HD13	3:AC:126:LYS:HZ2	1.80	0.46
3:AC:15:ASP:OD2	3:AC:18:LYS:HB3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:139:ASN:CG	3:AC:162:GLU:OE2	2.53	0.46
3:AC:210:ARG:CG	3:AC:210:ARG:HH11	2.16	0.46
4:AD:76:ARG:CD	4:AD:113:MET:CB	2.76	0.46
5:AE:205:THR:C	5:AE:206:LYS:HG3	2.31	0.46
5:AE:207:GLY:N	5:AE:257:GLY:O	2.49	0.46
5:AE:269:ILE:HB	5:AE:270:ASP:OD2	2.14	0.46
5:AE:46:ALA:CB	5:AE:72:VAL:O	2.62	0.46
6:AF:239:ALA:CA	6:AF:242:GLU:HG3	2.46	0.46
6:AF:37:ALA:O	6:AF:40:ALA:HB3	2.15	0.46
1:AB:57:A:N3	7:AG:17:ARG:NH1	2.64	0.46
8:AH:101:LYS:CE	8:AH:115:GLU:HB2	2.45	0.46
2:AA:2745:C:O2'	8:AH:142:GLU:N	2.49	0.46
2:AA:2745:C:O2'	8:AH:142:GLU:OE2	2.29	0.46
9:AI:15:VAL:CG2	9:AI:49:ALA:N	2.79	0.46
9:AI:68:GLN:O	9:AI:69:ASN:CG	2.54	0.46
11:AL:112:LYS:C	11:AL:114:PRO:CD	2.83	0.46
12:AM:108:PRO:CD	12:AM:109:TYR:N	2.79	0.46
12:AM:60:ARG:HD2	12:AM:71:TYR:CE2	2.51	0.46
12:AM:94:GLY:C	12:AM:98:PHE:CD1	2.89	0.46
13:AN:104:ARG:NH2	13:AN:121:VAL:O	2.49	0.46
14:AO:67:ARG:HH12	14:AO:111:ALA:HB3	1.73	0.46
14:AO:59:GLU:CD	14:AO:60:GLU:OE1	2.54	0.46
15:AP:133:GLU:OE1	15:AP:134:PHE:N	2.49	0.46
16:AQ:70:GLY:C	16:AQ:71:TRP:HE3	2.19	0.46
16:AQ:92:ALA:O	16:AQ:93:GLN:C	2.52	0.46
18:AS:29:LEU:HD23	18:AS:69:LEU:HB2	1.98	0.46
2:AA:144:C:C5'	19:AT:36:GLU:CD	2.81	0.46
21:AV:96:VAL:HG11	21:AV:131:PRO:O	2.15	0.46
21:AV:173:PRO:HB2	21:AV:176:LEU:HA	1.96	0.46
22:AW:13:PRO:HD3	22:AW:16:ARG:NH1	2.30	0.46
22:AW:59:ILE:O	22:AW:60:GLN:C	2.54	0.46
23:AX:31:LEU:O	23:AX:33:GLN:N	2.48	0.46
34:BA:1538:C:C2	36:B1:51:G:N2	2.74	0.46
34:BA:1137:C:H5'	34:BA:1138:G:C6	2.51	0.46
34:BA:1148:U:N3	34:BA:1149:C:C2	2.83	0.46
34:BA:1240:U:C1'	42:BJ:42:ILE:HD11	2.46	0.46
34:BA:1375:A:H2'	34:BA:1376:U:C6	2.51	0.46
34:BA:171:A:C2	34:BA:172:A:C4	3.04	0.46
34:BA:291:C:H3'	34:BA:305:G:N2	2.31	0.46
34:BA:65:U:H2'	34:BA:381:C:C5	2.50	0.46
34:BA:490:G:H2'	34:BA:491:G:H8	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:494:G:O2'	34:BA:495:U:H5	1.97	0.46
34:BA:50:A:H5''	34:BA:51:A:O3'	2.16	0.46
34:BA:644:G:H2'	34:BA:645:C:C5'	2.46	0.46
34:BA:658:G:C6	34:BA:659:U:C4	3.03	0.46
34:BA:706:A:H2	34:BA:707:C:C2	2.33	0.46
34:BA:773:G:C2'	34:BA:774:G:O5'	2.63	0.46
34:BA:782:A:C6	34:BA:801:U:N1	2.84	0.46
34:BA:920:U:C4'	34:BA:1080:A:N6	2.79	0.46
34:BA:998:G:N2	34:BA:999:C:O4'	2.49	0.46
35:BB:70:C:C2'	35:BB:71:G:H8	2.10	0.46
35:BC:3:G:C2'	35:BC:4:G:O5'	2.63	0.46
35:BC:67:A:O2'	35:BC:68:U:H5'	2.16	0.46
35:BC:75:C:C6	35:BC:76:A:H4'	2.51	0.46
37:BE:144:ARG:HD2	37:BE:148:TYR:CZ	2.50	0.46
37:BE:179:LYS:O	37:BE:181:PHE:N	2.49	0.46
37:BE:20:GLU:CG	37:BE:189:ASP:HB3	2.45	0.46
37:BE:74:LYS:HG2	37:BE:76:GLN:H	1.80	0.46
38:BF:123:GLN:O	38:BF:124:ILE:C	2.53	0.46
39:BG:124:GLY:C	39:BG:126:ILE:H	2.17	0.46
39:BG:19:LEU:H	39:BG:33:MET:HE1	1.79	0.46
41:BI:67:MET:HE1	41:BI:69:GLU:C	2.35	0.46
41:BI:78:GLU:O	41:BI:81:ILE:CG1	2.63	0.46
43:BK:14:ARG:N	43:BK:14:ARG:HH11	2.14	0.46
45:BM:79:ARG:HG2	45:BM:79:ARG:NH1	2.30	0.46
46:BN:121:PRO:HB2	46:BN:125:PHE:HB2	1.97	0.46
46:BN:18:ARG:NE	46:BN:34:ASP:O	2.48	0.46
47:BO:60:LEU:CD1	47:BO:60:LEU:N	2.55	0.46
52:BT:3:LYS:O	52:BT:4:LYS:C	2.52	0.46
34:BA:190(E):U:C2	52:BT:72:ARG:NH1	2.81	0.46
53:BU:48:GLY:H	53:BU:49:LYS:HZ1	1.63	0.46
53:BU:46:GLU:CB	53:BU:85:LEU:HD11	2.44	0.46
54:BV:63:THR:N	54:BV:66:MET:SD	2.89	0.46
55:BW:105:SER:O	55:BW:106:ALA:C	2.52	0.46
55:BW:42:GLN:CA	55:BW:42:GLN:NE2	2.79	0.46
55:BW:43:LEU:HA	55:BW:43:LEU:HD23	1.81	0.46
55:BW:90:GLN:O	55:BW:93:GLU:N	2.48	0.46
2:AA:1484:G:N1	2:AA:1506:C:N4	2.64	0.46
37:BE:135:GLN:CB	37:BE:139:LYS:HE3	2.42	0.46
10:AK:59:ALA:O	10:AK:62:LEU:CB	2.63	0.46
44:BL:91:ASP:O	44:BL:91:ASP:OD1	2.33	0.46
7:AG:61:PHE:CD1	7:AG:61:PHE:N	2.84	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:55:GLU:O	9:AJ:56:LYS:HB2	2.15	0.46
24:A0:21:TYR:CD2	24:A0:21:TYR:N	2.80	0.46
24:A0:29:LEU:HD13	24:A0:29:LEU:HA	1.68	0.46
25:A1:50:ARG:CA	25:A1:53:LYS:HZ2	2.10	0.46
25:A1:66:ASN:O	25:A1:67:ALA:C	2.54	0.46
27:A3:42:GLY:C	27:A3:43:THR:HG22	2.35	0.46
29:A5:6:VAL:HG22	29:A5:7:PRO:HD2	1.98	0.46
31:A7:5:TYR:N	31:A7:6:GLN:HE22	2.12	0.46
33:A9:11:CYS:CA	33:A9:11:CYS:SG	2.96	0.46
2:AA:1024:G:C8	2:AA:1024:G:C3'	2.99	0.46
2:AA:104:U:O2	20:AU:16:LEU:HD13	2.15	0.46
2:AA:1124:C:C4	2:AA:1125:G:C5	3.04	0.46
2:AA:1339:G:H1'	2:AA:1393:A:C2	2.50	0.46
2:AA:1394:U:H5''	2:AA:1395:A:OP2	2.15	0.46
2:AA:449(A):G:C2	2:AA:1450:C:C6	3.03	0.46
2:AA:1433:U:C2	2:AA:1560:G:O6	2.69	0.46
2:AA:1598:C:O5'	2:AA:1598:C:H6	1.98	0.46
2:AA:1646:C:C3'	2:AA:1647:G:C5'	2.91	0.46
2:AA:1729:A:C2'	2:AA:1730:U:H5'	2.44	0.46
2:AA:781:A:O2'	2:AA:1789:A:O4'	2.32	0.46
2:AA:1814:G:N2	2:AA:1815:A:N6	2.64	0.46
2:AA:1935:G:N3	2:AA:1962:C:C2	2.83	0.46
2:AA:1970:A:O2'	2:AA:1971:A:C5'	2.63	0.46
2:AA:2053:G:N1	2:AA:2054:A:C5	2.83	0.46
2:AA:2065:C:C2	2:AA:2066:C:C5	3.03	0.46
2:AA:2082:A:N6	2:AA:2239:G:C6	2.84	0.46
2:AA:2090:G:H1	2:AA:2227:A:H62	1.61	0.46
2:AA:2130:U:H5	2:AA:2131:G:H22	1.61	0.46
2:AA:2135:A:C8	2:AA:2152:G:C8	3.04	0.46
2:AA:2190:G:C5	2:AA:2191:G:N7	2.84	0.46
2:AA:963:U:C2'	2:AA:2250:G:H21	2.28	0.46
2:AA:858:U:C2'	2:AA:2268:A:H2'	2.37	0.46
2:AA:2328:A:H2'	2:AA:2329:G:C8	2.50	0.46
2:AA:792:G:N7	2:AA:2440:C:H1'	2.31	0.46
2:AA:2476:A:C5	2:AA:2477:C:C5	3.02	0.46
2:AA:2478:A:C8	2:AA:2479:G:C8	3.02	0.46
2:AA:23:G:H21	2:AA:24:G:H1'	1.77	0.46
2:AA:2569:G:O2'	2:AA:2570:G:O5'	2.32	0.46
2:AA:2602:A:OP2	35:BC:75:C:OP1	2.34	0.46
2:AA:2646:C:C2'	2:AA:2647:U:C5'	2.93	0.46
2:AA:2746:U:C6	2:AA:2746:U:H3'	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2740:A:N1	2:AA:2764:A:C4	2.84	0.46
2:AA:2791:C:O2'	2:AA:2792:G:H5'	2.15	0.46
2:AA:2853:C:O5'	2:AA:2853:C:H6	1.99	0.46
2:AA:298:G:P	2:AA:298:G:H8	2.39	0.46
2:AA:372:G:H8	2:AA:372:G:O5'	1.98	0.46
2:AA:464:U:P	2:AA:464:U:C6	3.09	0.46
2:AA:466:A:H2'	2:AA:467:G:H5'	1.94	0.46
2:AA:466:A:H8	2:AA:466:A:O5'	1.97	0.46
2:AA:550:G:C2'	2:AA:1220:A:H2	2.28	0.46
2:AA:558:G:C4	2:AA:559:G:N7	2.84	0.46
2:AA:610:C:C2'	2:AA:611:C:H6	2.27	0.46
2:AA:625:G:H3'	2:AA:626:U:H5'	1.96	0.46
2:AA:662:G:N1	2:AA:663:G:O6	2.48	0.46
2:AA:674:G:C2	2:AA:807:U:C4	3.04	0.46
2:AA:693:C:O2'	2:AA:694:U:C5'	2.62	0.46
2:AA:720:C:C4	2:AA:721:C:C5	3.03	0.46
2:AA:779:U:C2	2:AA:785:G:O6	2.69	0.46
2:AA:780:G:N7	2:AA:782:A:N6	2.64	0.46
2:AA:980:A:H3'	2:AA:981:A:H8	1.81	0.46
2:AA:995:C:OP1	2:AA:996:A:OP1	2.34	0.46
1:AB:63:G:C2	1:AB:64:C:C2	3.03	0.46
1:AB:67:G:H2'	1:AB:68:C:C6	2.51	0.46
4:AD:63:ILE:HA	4:AD:86:ARG:NH2	2.13	0.46
2:AA:1501:C:C4'	4:AD:98:GLY:HA2	2.46	0.46
5:AE:223:LYS:O	5:AE:227:ALA:HB2	2.16	0.46
6:AF:201:SER:O	6:AF:202:THR:C	2.54	0.46
6:AF:216:SER:O	6:AF:217:GLU:CB	2.63	0.46
6:AF:213:ALA:HB1	6:AF:218:VAL:CG1	2.46	0.46
1:AB:17:C:OP1	7:AG:147:ALA:CB	2.64	0.46
7:AG:45:THR:CB	7:AG:83:PHE:CZ	2.99	0.46
8:AH:87:GLU:HB3	8:AH:164:GLU:OE2	2.15	0.46
9:AI:77:VAL:HG13	9:AI:102:ILE:CD1	2.45	0.46
9:AJ:72:GLN:O	9:AJ:75:LYS:HB2	2.15	0.46
11:AL:56:VAL:HG11	11:AL:58:ILE:HG12	1.98	0.46
11:AL:73:PRO:HG2	11:AL:78:LEU:CD2	2.46	0.46
12:AM:15:ARG:C	12:AM:44:ALA:HA	2.36	0.46
12:AM:69:TYR:CD2	12:AM:71:TYR:HE1	2.34	0.46
14:AO:106:VAL:HG21	14:AO:122:ALA:HA	1.98	0.46
14:AO:66:VAL:CB	14:AO:110:GLY:O	2.62	0.46
14:AO:128:GLY:O	14:AO:129:ALA:C	2.54	0.46
14:AO:76:LEU:CD2	14:AO:96:VAL:HG12	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AR:17:THR:C	17:AR:18:GLY:O	2.51	0.46
18:AS:24:ILE:HD12	18:AS:51:LEU:HD21	1.98	0.46
20:AU:49:GLU:CD	20:AU:97:ARG:NH1	2.69	0.46
21:AV:145:ASP:O	21:AV:146:HIS:CD2	2.68	0.46
21:AV:168:VAL:C	21:AV:169:VAL:HG23	2.36	0.46
22:AW:24:LYS:O	22:AW:25:THR:C	2.54	0.46
34:BA:1029:C:N3	34:BA:1030:C:C5	2.83	0.46
34:BA:1057:G:H2'	34:BA:1058:G:O5'	2.15	0.46
34:BA:1125:U:O3'	34:BA:1126:U:C6	2.69	0.46
34:BA:1097:C:H5'	34:BA:1169:A:H4'	1.97	0.46
34:BA:1284:C:C2'	34:BA:1285:A:H8	2.24	0.46
34:BA:1296:C:O4'	34:BA:1302:U:O4	2.34	0.46
34:BA:1399:C:C4'	34:BA:1400:C:O5'	2.46	0.46
34:BA:1435:G:OP2	34:BA:1435:G:H8	1.97	0.46
34:BA:184:G:O4'	34:BA:224:C:H4'	2.15	0.46
34:BA:24:U:HO2'	34:BA:525:C:C1'	2.28	0.46
34:BA:290:C:C6	34:BA:290:C:O5'	2.68	0.46
34:BA:33:A:C5'	34:BA:34:C:OP2	2.62	0.46
34:BA:419:C:H2'	34:BA:420:U:C5'	2.45	0.46
34:BA:440:A:C2'	34:BA:442:C:H5'	2.46	0.46
34:BA:503:C:O2'	34:BA:504:C:H5'	2.16	0.46
34:BA:539:A:P	47:BO:114:LYS:NZ	2.89	0.46
34:BA:623:C:C2'	34:BA:624:C:H5'	2.46	0.46
34:BA:671:G:N3	34:BA:672:U:C6	2.83	0.46
34:BA:924:C:O2'	34:BA:925:G:C5'	2.64	0.46
34:BA:945:G:C2	34:BA:946:A:N7	2.84	0.46
35:BC:48:C:H5'	35:BC:49:C:P	2.56	0.46
37:BE:236:TYR:O	37:BE:239:VAL:O	2.32	0.46
37:BE:78:GLN:HE22	37:BE:96:ARG:HH12	1.64	0.46
39:BG:102:ASP:HB2	39:BG:121:VAL:HG21	1.91	0.46
39:BG:30:LYS:N	39:BG:34:GLU:HB3	2.30	0.46
40:BH:107:ARG:O	40:BH:111:GLU:HG3	2.15	0.46
40:BH:120:THR:O	40:BH:120:THR:HG22	2.15	0.46
40:BH:18:ARG:N	40:BH:26:PHE:HB3	2.30	0.46
40:BH:52:PRO:O	40:BH:55:VAL:HG23	2.16	0.46
42:BJ:12:LEU:HD23	42:BJ:24:THR:HG22	1.97	0.46
46:BN:85:ARG:CZ	46:BN:111:ASP:CG	2.84	0.46
46:BN:128:ALA:O	46:BN:129:SER:CB	2.63	0.46
46:BN:23:ALA:HB2	46:BN:28:THR:CG2	2.45	0.46
47:BO:58:VAL:HG12	47:BO:60:LEU:HD13	1.96	0.46
34:BA:1114:C:H1'	49:BQ:60:SER:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BQ:9:LYS:HD3	49:BQ:9:LYS:C	2.36	0.46
50:BR:78:TYR:CD2	50:BR:82:ILE:HD11	2.50	0.46
34:BA:392:G:C5'	51:BS:12:LYS:CE	2.90	0.46
52:BT:18:THR:CG2	52:BT:43:LEU:HD21	2.15	0.46
53:BU:40:LEU:HA	53:BU:43:PHE:HD1	1.81	0.46
53:BU:69:THR:O	53:BU:71:LYS:N	2.48	0.46
54:BV:19:VAL:HG23	54:BV:47:HIS:NE2	2.30	0.46
54:BV:36:ARG:C	54:BV:38:SER:N	2.69	0.46
54:BV:42:PRO:O	54:BV:45:VAL:HG23	2.14	0.46
35:BB:29:A:N1	35:BB:41:U:O2	2.49	0.46
2:AA:1505:C:C2'	2:AA:1505:C:O2	2.63	0.46
36:B1:17:G:N1	36:B1:37:C:O2	2.28	0.46
36:B1:39:A:N3	36:B1:39:A:C2'	2.79	0.46
36:B1:27:G:H2'	36:B1:28:U:C5	2.51	0.46
45:BM:68:HIS:N	45:BM:68:HIS:CD2	2.82	0.46
53:BU:33:ASP:O	53:BU:35:ARG:N	2.48	0.46
2:AA:276:A:OP2	2:AA:276:A:C4'	2.63	0.46
24:A0:90:ARG:NH2	24:A0:117:VAL:CG2	2.71	0.46
26:A2:61:VAL:HG12	26:A2:62:GLU:N	2.31	0.46
26:A2:35:LEU:CB	26:A2:63:HIS:CE1	2.93	0.46
29:A5:52:TYR:O	29:A5:53:ASP:CG	2.54	0.46
32:A8:10:ALA:O	32:A8:14:ILE:HG22	2.16	0.46
33:A9:19:ARG:HG3	33:A9:19:ARG:O	2.16	0.46
2:AA:1058:G:HO2'	2:AA:1059:G:H5'	1.73	0.46
2:AA:1069:A:O2'	2:AA:1070:A:H5''	2.15	0.46
2:AA:1111:A:P	2:AA:1111:A:C8	3.08	0.46
2:AA:1143:A:HO2'	2:AA:1144:G:C5'	2.28	0.46
2:AA:1239:G:H1'	2:AA:1240:U:C6	2.50	0.46
2:AA:1203:G:O2'	2:AA:1241:A:C2	2.56	0.46
2:AA:1280:G:C2	2:AA:1281:G:C8	3.03	0.46
2:AA:124:G:N2	2:AA:128:C:N4	2.64	0.46
2:AA:121:G:N2	2:AA:131:G:C8	2.83	0.46
2:AA:137(A):G:H2'	2:AA:138:G:C6	2.51	0.46
2:AA:1478:G:O2'	2:AA:1479:G:H5'	2.16	0.46
2:AA:1492:G:C2	2:AA:1493:C:N3	2.83	0.46
2:AA:1499:C:H2'	2:AA:1500:G:O5'	2.15	0.46
2:AA:1648:C:N4	2:AA:1649:G:O6	2.49	0.46
2:AA:1652:A:N3	2:AA:1652:A:C2'	2.78	0.46
2:AA:1677:A:O2'	2:AA:1678:G:O5'	2.33	0.46
2:AA:1693:U:O4	2:AA:1977:A:C6	2.69	0.46
2:AA:1859:A:C8	2:AA:1860:G:C8	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1858:G:C6	2:AA:1884:A:N3	2.84	0.46
2:AA:1913:A:C2	2:AA:1916:A:C5	3.03	0.46
2:AA:1930:G:C3'	2:AA:1930:G:C8	2.99	0.46
2:AA:1954:G:O2'	2:AA:1955:U:H5'	2.16	0.46
2:AA:2041:U:HO2'	2:AA:2042:A:H5'	1.74	0.46
2:AA:2062:A:O2'	2:AA:2063:C:OP1	2.31	0.46
2:AA:2107:C:N4	2:AA:2182:G:C6	2.80	0.46
2:AA:2137:C:C4	2:AA:2155:G:O2'	2.69	0.46
2:AA:2210:G:C2	4:AD:69:ASP:OD2	2.68	0.46
2:AA:224:G:C2	2:AA:225:A:C1'	2.99	0.46
2:AA:2305:A:C2	7:AG:72:LYS:NZ	2.80	0.46
2:AA:2395:C:H2'	2:AA:2396:G:H8	1.80	0.46
2:AA:2403:C:N3	2:AA:2404:C:C5	2.84	0.46
2:AA:2408:U:H2'	2:AA:2409:G:H8	1.80	0.46
2:AA:199:A:N1	2:AA:2434:A:C2	2.83	0.46
2:AA:1029:A:H2	2:AA:2466:C:H5'	1.80	0.46
2:AA:2604:U:O2	2:AA:2604:U:H2'	2.15	0.46
2:AA:2588:G:N1	2:AA:2607:G:C6	2.84	0.46
2:AA:2626:C:C3'	2:AA:2626:C:C6	2.98	0.46
2:AA:2697:G:C2'	2:AA:2698:U:O5'	2.63	0.46
2:AA:2734:A:N6	5:AE:316:ARG:HH12	2.14	0.46
2:AA:2854:G:C6	2:AA:2864:G:C6	3.04	0.46
2:AA:2875:C:H2'	2:AA:2876:G:O4'	2.15	0.46
2:AA:294:A:C2'	2:AA:295:G:H5'	2.45	0.46
2:AA:352:G:P	2:AA:352:G:H8	2.39	0.46
2:AA:270:A:H2	2:AA:371:A:C8	2.34	0.46
2:AA:412:A:C2'	2:AA:413:C:C5'	2.93	0.46
2:AA:459:U:C2'	2:AA:460:A:O5'	2.63	0.46
2:AA:564:C:OP2	26:A2:79:GLN:OE1	2.34	0.46
2:AA:722:A:C4	2:AA:723:G:C8	3.04	0.46
2:AA:812:C:N4	2:AA:1195:G:H1	2.13	0.46
2:AA:814:C:O2'	2:AA:815:C:H5'	2.16	0.46
2:AA:83:G:O3'	20:AU:20:HIS:CE1	2.69	0.46
1:AB:11:C:C2	1:AB:109:G:N1	2.73	0.46
1:AB:43:C:H1'	7:AG:47:GLN:CD	2.36	0.46
1:AB:53:A:C2	1:AB:54:G:O4'	2.69	0.46
1:AB:7:G:O2'	16:AQ:37:ARG:HG3	2.16	0.46
3:AC:10:LEU:CG	3:AC:32:LEU:HB3	2.46	0.46
2:AA:1861:G:C4'	3:AC:205:LYS:HZ3	2.29	0.46
3:AC:28:LEU:HA	3:AC:31:GLU:CG	2.46	0.46
3:AC:56:GLN:HA	3:AC:201:PRO:HB3	1.92	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:78:ALA:HB2	3:AC:116:THR:CG2	2.46	0.46
4:AD:183:ILE:HG22	4:AD:187:CYS:SG	2.56	0.46
4:AD:66:PHE:N	4:AD:67:LYS:HZ2	2.14	0.46
5:AE:190:ASN:O	5:AE:193:PHE:O	2.33	0.46
5:AE:216:ARG:O	5:AE:217:TRP:CD1	2.69	0.46
5:AE:256:THR:CA	5:AE:259:HIS:CE1	2.84	0.46
6:AF:213:ALA:HB2	6:AF:218:VAL:HG13	1.98	0.46
6:AF:238:SER:O	6:AF:241:ALA:CA	2.64	0.46
7:AG:134:LEU:C	7:AG:135:VAL:CG2	2.84	0.46
7:AG:140:ARG:O	7:AG:141:VAL:C	2.53	0.46
7:AG:75:LEU:C	7:AG:80:ALA:HB2	2.36	0.46
8:AH:130:ILE:HG22	8:AH:131:ILE:N	2.31	0.46
8:AH:84:LYS:HG3	8:AH:140:VAL:HG12	1.97	0.46
8:AH:51:VAL:C	8:AH:52:THR:O	2.53	0.46
8:AH:98:GLN:C	8:AH:99:GLY:O	2.52	0.46
2:AA:1084:A:OP1	9:AI:35:ALA:O	2.34	0.46
2:AA:1058:G:N3	9:AI:3:ILE:CG1	2.78	0.46
9:AI:18:LEU:HD22	9:AI:44:VAL:HB	1.96	0.46
9:AJ:106:VAL:HG12	9:AJ:111:ALA:N	2.31	0.46
9:AJ:92:VAL:O	9:AJ:95:ALA:HB3	2.15	0.46
10:AK:21:VAL:O	10:AK:21:VAL:HG12	2.16	0.46
10:AK:7:LYS:CD	10:AK:12:LYS:NZ	2.79	0.46
11:AL:14:PRO:O	11:AL:17:LYS:HB2	2.16	0.46
12:AM:19:MET:HE1	12:AM:22:VAL:HG21	1.97	0.46
12:AM:4:ALA:O	12:AM:6:PHE:CZ	2.68	0.46
12:AM:96:GLU:O	12:AM:99:GLU:N	2.49	0.46
13:AN:22:ILE:HG13	13:AN:41:ALA:CB	2.45	0.46
13:AN:48:PRO:O	13:AN:49:GLY:C	2.53	0.46
13:AN:77:ILE:CD1	13:AN:78:ARG:N	2.60	0.46
16:AQ:104:ILE:HD13	16:AQ:109:PRO:CD	2.45	0.46
16:AQ:16:ALA:C	16:AQ:18:THR:H	2.18	0.46
16:AQ:33:ARG:CG	16:AQ:48:VAL:HB	2.45	0.46
17:AR:46:ALA:O	17:AR:48:ASN:N	2.49	0.46
18:AS:89:ALA:HB3	18:AS:92:ARG:H	1.81	0.46
19:AT:34:LYS:CE	19:AT:52:VAL:O	2.58	0.46
20:AU:32:ARG:O	20:AU:33:GLU:C	2.52	0.46
20:AU:81:LYS:NZ	20:AU:81:LYS:CB	2.77	0.46
21:AV:19:ILE:CG2	21:AV:39:PHE:CE1	2.96	0.46
21:AV:46:GLN:O	21:AV:47:SER:C	2.54	0.46
23:AX:30:ARG:HH21	23:AX:33:GLN:CB	2.28	0.46
23:AX:40:THR:OG1	23:AX:43:ILE:CD1	2.61	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:B1:67:U:OP1	36:B1:68:U:H5	1.99	0.46
34:BA:1024:G:H2'	34:BA:1025:U:O5'	2.16	0.46
34:BA:1104:G:C2'	34:BA:1105:A:O5'	2.63	0.46
34:BA:110:C:H2'	34:BA:111:G:C8	2.51	0.46
34:BA:1145:C:O4'	34:BA:1145:C:OP2	2.34	0.46
34:BA:1127:G:N2	34:BA:1147:C:N4	2.63	0.46
34:BA:1164:G:H1	34:BA:1172:C:H42	0.61	0.46
34:BA:1166:G:C2	34:BA:1171:G:C6	3.03	0.46
34:BA:1179:A:H2'	34:BA:1180:A:C8	2.51	0.46
34:BA:1224:G:O2'	34:BA:1225:A:P	2.74	0.46
34:BA:1273:G:H3'	34:BA:1274:G:H8	1.81	0.46
34:BA:1325:C:O2'	34:BA:1326:C:H5'	2.16	0.46
34:BA:1430:C:O2'	34:BA:1431:C:H5'	2.16	0.46
34:BA:1425:U:C2	34:BA:1476:G:N2	2.84	0.46
34:BA:1523:G:C5	34:BA:1524:C:C5	3.04	0.46
34:BA:1539:C:P	53:BU:54:ARG:NH1	2.88	0.46
34:BA:241:C:O2'	34:BA:242:C:H5'	2.15	0.46
34:BA:250:A:N3	34:BA:252:U:N3	2.64	0.46
34:BA:257:G:H2'	34:BA:258:G:O5'	2.15	0.46
34:BA:280:C:O4'	52:BT:38:ARG:CZ	2.64	0.46
34:BA:33:A:H2'	47:BO:32:PHE:CE2	2.50	0.46
34:BA:444:C:H2'	34:BA:445:G:H8	1.81	0.46
34:BA:419:C:OP1	34:BA:513:C:H1'	2.15	0.46
34:BA:568:G:N3	34:BA:569:C:C5	2.84	0.46
34:BA:624:C:O2	34:BA:625:G:C8	2.68	0.46
34:BA:717:C:N3	34:BA:734:G:C8	2.83	0.46
34:BA:826:C:N3	34:BA:827:U:C5	2.83	0.46
34:BA:858:G:C2	34:BA:869:G:H2'	2.44	0.46
34:BA:920:U:N3	34:BA:921:U:C5	2.84	0.46
34:BA:971:G:H5''	34:BA:972:C:H5''	1.97	0.46
34:BA:991:U:H2'	34:BA:993:G:C8	2.51	0.46
35:BB:32:C:O5'	35:BB:32:C:H6	1.96	0.46
37:BE:103:THR:O	37:BE:104:ASN:HB3	2.14	0.46
37:BE:175:ARG:HA	37:BE:178:ARG:HB3	1.97	0.46
37:BE:15:VAL:CG1	37:BE:209:ARG:HG3	2.46	0.46
37:BE:218:ALA:O	37:BE:220:ASP:N	2.49	0.46
37:BE:221:LEU:HD13	37:BE:222:ILE:N	2.30	0.46
38:BF:135:LYS:NZ	40:BH:52:PRO:HD2	2.31	0.46
38:BF:132:ARG:CG	38:BF:136:GLN:NE2	2.60	0.46
38:BF:67:THR:CG2	38:BF:69:HIS:CE1	2.98	0.46
38:BF:84:ILE:O	38:BF:101:LEU:CD1	2.57	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BG:148:VAL:HG21	39:BG:181:MET:HE2	1.98	0.46
42:BJ:69:VAL:HG22	42:BJ:134:ALA:C	2.36	0.46
44:BL:111:ARG:O	44:BL:113:LYS:CE	2.64	0.46
44:BL:15:ALA:HB3	44:BL:76:ALA:C	2.36	0.46
48:BP:40:ASN:HD22	48:BP:41:PRO:HD2	1.81	0.46
48:BP:96:LEU:O	48:BP:110:ARG:NE	2.49	0.46
49:BQ:39:LEU:CD1	49:BQ:47:LEU:HD12	2.43	0.46
52:BT:29:HIS:ND1	52:BT:30:PRO:HD2	2.30	0.46
52:BT:7:THR:HA	52:BT:57:VAL:O	2.16	0.46
54:BV:36:ARG:CZ	54:BV:72:GLY:HA2	2.45	0.46
2:AA:2:G:C2	2:AA:3:U:C2	3.04	0.46
2:AA:1283:G:N3	2:AA:1285:G:C8	2.84	0.46
54:BV:80:TYR:CG	54:BV:81:ARG:N	2.83	0.46
27:A3:4:LYS:NZ	27:A3:11:LYS:HZ1	2.11	0.46
14:AO:101:ASP:OD2	14:AO:101:ASP:O	2.34	0.46
38:BF:75:VAL:CG1	38:BF:75:VAL:O	2.64	0.46
10:AK:57:GLN:HA	10:AK:60:GLU:OE1	2.15	0.46
24:A0:77:ARG:O	24:A0:80:PHE:N	2.49	0.46
2:AA:1152:C:H4'	25:A1:80:ILE:HD12	1.97	0.46
27:A3:40:GLN:CA	27:A3:69:PHE:CE1	2.97	0.46
29:A5:7:PRO:O	29:A5:8:LYS:HD3	2.16	0.46
31:A7:4:THR:C	31:A7:6:GLN:NE2	2.66	0.46
33:A9:6:SER:C	33:A9:8:LYS:HE3	2.36	0.46
2:AA:1084:A:C5	9:AI:37:VAL:HG11	2.50	0.46
2:AA:1002:G:N2	2:AA:1153:C:C2	2.75	0.46
2:AA:1003:G:N2	2:AA:1153:C:C6	2.83	0.46
2:AA:818:G:N2	2:AA:1190:G:C6	2.84	0.46
2:AA:1249:U:O2'	2:AA:1250:G:O4'	2.31	0.46
2:AA:1299:G:O2'	2:AA:1301:A:H2	1.92	0.46
2:AA:1326:U:OP1	2:AA:1327:C:OP2	2.34	0.46
2:AA:1336:A:O2'	2:AA:1337:G:C5'	2.64	0.46
2:AA:142(A):A:OP1	2:AA:142(A):A:H3'	2.16	0.46
2:AA:1498:C:H2'	2:AA:1499:C:C6	2.50	0.46
2:AA:1568:G:H3'	4:AD:60:GLN:HG3	1.97	0.46
2:AA:1592:C:O2'	2:AA:1593:G:C5'	2.64	0.46
2:AA:1637:A:C6	2:AA:1638:C:N4	2.83	0.46
2:AA:1641:A:N6	2:AA:1642:G:C2	2.83	0.46
2:AA:16:G:C6	2:AA:525:U:C2	3.04	0.46
2:AA:1785:A:C5'	2:AA:1785:A:H8	2.26	0.46
2:AA:1812:A:H2'	2:AA:1813:G:H5'	1.98	0.46
2:AA:1912:A:H8	2:AA:1913:A:O4'	1.99	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1926:U:H3	2:AA:1929:G:N2	2.13	0.46
2:AA:1955:U:C2'	2:AA:1955:U:O2	2.63	0.46
2:AA:2003:G:C6	2:AA:2004:G:C5	3.04	0.46
2:AA:532:A:OP2	2:AA:2021:C:N4	2.49	0.46
2:AA:2091:U:H3'	2:AA:2092:U:H5'	1.98	0.46
2:AA:2132:U:H2'	2:AA:2132:U:O2	2.16	0.46
2:AA:2190:G:C2'	2:AA:2191:G:H5'	2.45	0.46
2:AA:2228:G:O6	2:AA:2229:C:O2	2.34	0.46
2:AA:197:A:O2'	2:AA:2244:U:OP1	2.33	0.46
2:AA:2270:G:C6	2:AA:2271:G:N3	2.83	0.46
2:AA:2332:U:H5'	27:A3:70:ILE:CG2	2.44	0.46
2:AA:2360:A:C8	2:AA:2361:A:C8	3.02	0.46
2:AA:2378:A:H1'	16:AQ:26:LEU:HD22	1.97	0.46
2:AA:238:C:O2	2:AA:239:U:O4'	2.34	0.46
2:AA:2396:G:O2'	28:A4:27:THR:N	2.49	0.46
2:AA:2410:G:N2	2:AA:2411:A:H1'	2.31	0.46
2:AA:2259:G:C5	2:AA:2427:C:N4	2.84	0.46
2:AA:2456:C:O2'	2:AA:2457:U:C5'	2.56	0.46
2:AA:246:C:C4	2:AA:247:G:C5	3.04	0.46
2:AA:2458:G:H2'	2:AA:2490:G:N1	2.31	0.46
2:AA:2496:C:C5'	2:AA:2497:A:OP2	2.58	0.46
2:AA:2539:C:C2'	2:AA:2540:C:O5'	2.64	0.46
2:AA:1787:A:H5'	2:AA:2590:A:H5'	1.97	0.46
2:AA:2617:C:C4	2:AA:2618:G:C8	3.04	0.46
2:AA:25:U:C3'	2:AA:26:G:H8	2.28	0.46
2:AA:270(Q):C:C5	2:AA:270(R):G:N7	2.84	0.46
2:AA:27:G:H3'	2:AA:27:G:H8	1.81	0.46
2:AA:285:C:H2'	2:AA:286:C:N3	2.27	0.46
2:AA:2886:G:C2	2:AA:2887:U:C2	3.04	0.46
2:AA:299:A:C6	2:AA:322:A:C6	3.04	0.46
2:AA:421:U:O4'	2:AA:421:U:OP2	2.33	0.46
2:AA:268:C:N3	2:AA:424:G:O6	2.48	0.46
2:AA:518:G:C6	2:AA:519:U:O4	2.69	0.46
2:AA:580:C:N3	2:AA:581:C:N4	2.64	0.46
2:AA:676:A:H2'	2:AA:677:A:C5'	2.43	0.46
2:AA:685:A:N3	2:AA:774:A:N1	2.64	0.46
2:AA:692:C:N3	2:AA:693:C:C5	2.84	0.46
2:AA:705:A:C2'	2:AA:705:A:N3	2.79	0.46
2:AA:764:A:C6	2:AA:781:A:H2	2.33	0.46
2:AA:783:A:H8	2:AA:783:A:H3'	1.80	0.46
2:AA:776:G:H1'	2:AA:793:A:C6	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:83:G:O2'	2:AA:84:A:O5'	2.33	0.46
2:AA:933:A:H2'	2:AA:934:G:O5'	2.16	0.46
2:AA:843:G:N2	2:AA:936:C:C2	2.84	0.46
2:AA:975:G:C6	2:AA:976:C:H5	2.34	0.46
4:AD:131:LEU:H	4:AD:131:LEU:HG	1.47	0.46
4:AD:142:ASN:N	4:AD:143:ILE:CD1	2.65	0.46
4:AD:148:GLY:O	4:AD:149:ARG:NH2	2.48	0.46
4:AD:176:ALA:O	4:AD:177:SER:C	2.54	0.46
4:AD:89:ASN:ND2	4:AD:199:ARG:HE	2.08	0.46
4:AD:201:ASP:N	4:AD:201:ASP:OD1	2.48	0.46
4:AD:213:LYS:HB2	4:AD:215:LYS:O	2.16	0.46
5:AE:81:VAL:HB	5:AE:100:TRP:CH2	2.50	0.46
6:AF:105:LYS:O	6:AF:109:LEU:CG	2.57	0.46
6:AF:210:ALA:O	6:AF:211:ASP:CB	2.63	0.46
6:AF:225:PRO:O	6:AF:230:GLY:C	2.53	0.46
6:AF:36:ARG:CA	6:AF:39:GLN:HE22	2.29	0.46
8:AH:88:LEU:HD11	8:AH:95:ALA:H	1.75	0.46
9:AI:1:MET:SD	9:AJ:86:LYS:HB2	2.55	0.46
9:AI:60:ASP:HB2	9:AI:128:LYS:CE	2.46	0.46
9:AJ:15:VAL:HG22	9:AJ:48:ALA:C	2.36	0.46
9:AJ:76:VAL:O	9:AJ:80:ILE:HB	2.15	0.46
9:AI:1:MET:CE	9:AJ:86:LYS:CD	2.86	0.46
10:AK:3:VAL:HG21	10:AK:21:VAL:CG2	2.43	0.46
10:AK:44:LEU:O	10:AK:47:LEU:CG	2.58	0.46
11:AL:72:THR:CG2	11:AL:115:ASP:N	2.79	0.46
13:AN:66:LYS:HE3	13:AN:82:ASN:OD1	2.14	0.46
14:AO:119:THR:HG22	14:AO:138:GLY:CA	2.46	0.46
15:AP:130:PRO:HB2	15:AP:134:PHE:CE1	2.49	0.46
15:AP:137:ARG:HD3	15:AP:138:ARG:CA	2.45	0.46
15:AP:12:PRO:CG	15:AP:91:HIS:HB2	2.39	0.46
16:AQ:120:GLU:O	16:AQ:121:GLY:C	2.52	0.46
16:AQ:20:TYR:CD2	16:AQ:21:HIS:N	2.84	0.46
16:AQ:35:VAL:HG13	16:AQ:103:ASP:OD1	2.13	0.46
18:AS:65:LEU:HB2	18:AS:109:GLU:OE1	2.15	0.46
20:AU:78:THR:O	20:AU:89:ARG:NH2	2.49	0.46
20:AU:78:THR:N	20:AU:89:ARG:CZ	2.79	0.46
21:AV:120:LEU:HD23	21:AV:120:LEU:N	2.25	0.46
21:AV:70:GLN:O	21:AV:72:ASP:N	2.49	0.46
23:AX:33:GLN:CG	23:AX:34:GLU:N	2.78	0.46
34:BA:1084:G:HO2'	34:BA:1085:U:P	2.38	0.46
34:BA:1161:C:OP2	34:BA:1161:C:H6	1.99	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1157:A:H1'	34:BA:1181:G:H21	1.80	0.46
34:BA:1226:C:H5''	48:BP:103:THR:CB	2.41	0.46
34:BA:1241:G:C4	34:BA:1242:C:C5	3.04	0.46
34:BA:1258:G:O2'	34:BA:1259:C:H5'	2.15	0.46
34:BA:1307:U:O5'	34:BA:1307:U:H6	1.98	0.46
34:BA:1357:A:H8	34:BA:1357:A:P	2.39	0.46
34:BA:1368:G:P	44:BL:112:LYS:O	2.74	0.46
34:BA:137:C:H2'	34:BA:138:G:O5'	2.16	0.46
34:BA:1440:C:C2	34:BA:1441:G:H1'	2.50	0.46
34:BA:179:A:H61	34:BA:196:A:H62	1.63	0.46
34:BA:224:C:H2'	34:BA:225:C:H6	1.80	0.46
34:BA:254:G:C6	34:BA:273:A:C6	3.04	0.46
34:BA:259:G:O2'	34:BA:260:G:C5'	2.64	0.46
34:BA:260:G:C5	34:BA:261:U:N3	2.84	0.46
34:BA:27:G:P	34:BA:27:G:H8	2.38	0.46
34:BA:286:G:HO2'	34:BA:287:U:H5'	1.80	0.46
34:BA:28:G:C5	34:BA:29:G:N7	2.84	0.46
34:BA:300:A:H2'	34:BA:301:G:C4'	2.45	0.46
34:BA:356:A:O2'	34:BA:357:G:H5'	2.15	0.46
34:BA:424:G:C2	34:BA:425:G:C8	3.03	0.46
34:BA:451:A:H1'	34:BA:452:A:N9	2.30	0.46
34:BA:460:A:C5	34:BA:462:G:C5	3.03	0.46
34:BA:495:U:H2'	34:BA:496:A:C5'	2.46	0.46
34:BA:528:C:H5'	34:BA:535:A:H61	1.81	0.46
34:BA:53:A:C6	34:BA:54:C:C5	3.04	0.46
34:BA:582:U:O4	34:BA:583:A:N6	2.49	0.46
34:BA:582:U:N3	34:BA:583:A:N7	2.63	0.46
34:BA:586:C:OP1	52:BT:34:LYS:HD2	2.16	0.46
34:BA:594:G:N2	34:BA:596:C:N4	2.63	0.46
34:BA:612:C:O2'	34:BA:613:C:H5'	2.15	0.46
34:BA:686:U:H2'	34:BA:687:A:O5'	2.16	0.46
34:BA:708:C:H5'	46:BN:37:GLY:CA	2.45	0.46
34:BA:841:U:C3'	34:BA:848:C:O4'	2.64	0.46
34:BA:96:G:N1	34:BA:97:G:C5	2.83	0.46
34:BA:976:G:N7	34:BA:361(A):C:C4	2.84	0.46
34:BA:978:A:H62	34:BA:1360:A:N6	2.13	0.46
34:BA:999:C:O2'	34:BA:1000:U:H5'	2.16	0.46
35:BB:53:G:C3'	35:BB:54:U:H5'	2.37	0.46
35:BB:5:A:N1	35:BB:69:U:O2	2.46	0.46
35:BC:72:C:O2'	35:BC:73:A:C1'	2.63	0.46
37:BE:42:ILE:HD11	37:BE:202:PRO:C	2.36	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:77:ALA:CB	37:BE:211:ILE:HG21	2.46	0.46
37:BE:9:GLU:CB	37:BE:217:ARG:HH22	2.29	0.46
37:BE:88:ALA:CB	37:BE:219:VAL:HG22	2.21	0.46
38:BF:10:PHE:CE2	38:BF:11:ARG:NH2	2.83	0.46
38:BF:53:ALA:HB2	38:BF:115:LEU:CG	2.46	0.46
38:BF:190:ARG:CB	38:BF:190:ARG:HH11	2.29	0.46
38:BF:29:TYR:CE2	49:BQ:54:PRO:CG	2.83	0.46
39:BG:105:VAL:HG11	39:BG:117:ALA:CA	2.46	0.46
34:BA:620:C:O2	39:BG:135:LEU:HB2	2.15	0.46
39:BG:58:LEU:HD13	39:BG:59:ARG:HD2	1.97	0.46
40:BH:33:VAL:HG21	40:BH:108:ALA:HB3	1.97	0.46
41:BI:45:LEU:HD23	41:BI:58:GLY:O	2.16	0.46
41:BI:62:TRP:HZ2	41:BI:64:GLN:HB2	1.80	0.46
42:BJ:27:ILE:HG21	42:BJ:40:ALA:CA	2.43	0.46
43:BK:15:ASN:O	43:BK:16:ALA:C	2.53	0.46
43:BK:29:SER:CA	43:BK:32:LYS:NZ	2.79	0.46
44:BL:11:LYS:NZ	44:BL:108:VAL:CG1	2.78	0.46
34:BA:1151:A:N3	45:BM:39:PRO:HG3	2.31	0.46
45:BM:20:ALA:HB2	45:BM:70:ARG:HB3	1.97	0.46
46:BN:23:ALA:CB	46:BN:28:THR:OG1	2.62	0.46
46:BN:32:ILE:CD1	46:BN:72:ALA:HB2	2.45	0.46
46:BN:81:ASP:OD1	46:BN:106:LYS:HB3	2.15	0.46
46:BN:25:TYR:HD1	46:BN:89:ALA:HB2	1.79	0.46
48:BP:15:VAL:CG2	48:BP:34:LEU:HD21	2.45	0.46
49:BQ:40:CYS:O	49:BQ:41:ARG:C	2.52	0.46
50:BR:54:ARG:O	50:BR:55:GLY:C	2.54	0.46
50:BR:87:ILE:HD12	50:BR:87:ILE:N	2.30	0.46
50:BR:5:LYS:O	50:BR:8:LYS:HB3	2.16	0.46
35:BB:28:C:N4	35:BB:43:G:C2	2.84	0.46
10:AK:141:LEU:HD13	10:AK:142:LYS:N	2.30	0.46
10:AK:78:THR:HA	10:AK:144:HIS:CE1	2.50	0.46
2:AA:1508:A:C8	2:AA:1509:C:C5	3.04	0.46
2:AA:1117:G:O2'	2:AA:1118:C:H5'	2.16	0.46
2:AA:1114:G:C2	2:AA:1115:G:N9	2.84	0.46
2:AA:2899:G:C2'	2:AA:2900:A:H8	2.25	0.46
7:AG:10:PHE:N	7:AG:10:PHE:CD1	2.84	0.46
24:A0:23:ASN:CG	24:A0:24:GLN:N	2.68	0.46
24:A0:47:PHE:C	24:A0:49:ASP:N	2.65	0.46
24:A0:49:ASP:OD1	24:A0:94:TYR:HB2	2.15	0.46
2:AA:583:G:OP1	25:A1:10:ARG:NH1	2.49	0.46
25:A1:93:LYS:O	25:A1:94:VAL:CG2	2.60	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:A2:20:ILE:HG21	26:A2:67:LYS:HD3	1.96	0.46
27:A3:61:ALA:HB3	27:A3:80:SER:HA	1.98	0.46
32:A8:41:ILE:C	32:A8:43:GLY:N	2.67	0.46
32:A8:23:MET:HE1	32:A8:48:PHE:CG	2.51	0.46
32:A8:55:TRP:HZ3	32:A8:59:LYS:HE3	1.80	0.46
2:AA:1023:U:N3	2:AA:1024:G:H1'	2.31	0.46
2:AA:1078:U:N3	2:AA:1088:A:O2'	2.45	0.46
2:AA:1096:A:N7	2:AA:1097:U:C6	2.84	0.46
2:AA:1097:U:C2'	2:AA:1098:A:O5'	2.64	0.46
2:AA:1087:G:N9	2:AA:1103:A:C2	2.84	0.46
2:AA:109:G:C2	2:AA:110:G:H1'	2.46	0.46
2:AA:1134:G:H5'	2:AA:1135:C:OP2	2.16	0.46
2:AA:1019:U:H3	2:AA:1143:A:N6	2.14	0.46
2:AA:991:C:H5''	2:AA:1186:G:OP2	2.13	0.46
2:AA:1194:A:C4	2:AA:1195:G:C8	3.04	0.46
2:AA:1238:G:C2	2:AA:1239:G:C1'	2.96	0.46
2:AA:126:A:N7	2:AA:127:A:C6	2.84	0.46
2:AA:140:A:O5'	19:AT:48:THR:HG22	2.15	0.46
2:AA:1419:A:C3'	2:AA:1420:U:O4'	2.63	0.46
2:AA:1513:C:C3'	2:AA:1513:C:C6	2.99	0.46
2:AA:1528:A:N6	2:AA:1543:A:C5	2.83	0.46
2:AA:14:A:C8	2:AA:15:G:C8	3.04	0.46
2:AA:1603:A:H3'	2:AA:1603:A:P	2.53	0.46
2:AA:155:C:C2'	2:AA:161:U:O5'	2.64	0.46
2:AA:1634:A:O3'	2:AA:1635:G:C8	2.69	0.46
2:AA:1702:G:H4'	34:BA:1473:A:O2'	2.16	0.46
2:AA:1725:G:C2	2:AA:1726:G:N7	2.84	0.46
2:AA:1780:A:C3'	2:AA:1781:C:C5'	2.93	0.46
2:AA:1791:A:O2'	4:AD:204:PHE:CB	2.47	0.46
2:AA:1815:A:C4'	2:AA:1817:G:O4'	2.64	0.46
2:AA:1941:C:C6	2:AA:1965:C:C4	3.04	0.46
2:AA:2013:A:OP1	18:AS:96:ILE:CA	2.64	0.46
2:AA:2080:G:N1	2:AA:2241:A:C6	2.84	0.46
2:AA:2097:C:C2'	2:AA:2098:U:C5'	2.86	0.46
2:AA:2180:U:C2	2:AA:2181:G:C8	3.03	0.46
2:AA:2090:G:N1	2:AA:2227:A:N6	2.64	0.46
2:AA:2302:G:O2'	2:AA:2303:G:C5'	2.64	0.46
2:AA:2325:G:O2'	2:AA:2326:C:C5'	2.54	0.46
2:AA:2262:U:O4'	2:AA:2328:A:N3	2.48	0.46
2:AA:2352:A:C2	27:A3:30:VAL:HG12	2.50	0.46
2:AA:825:C:H4'	2:AA:2428:G:C5	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:957:A:C2	2:AA:2459:A:C4'	2.99	0.46
2:AA:2471:C:N4	2:AA:2479:G:N1	2.29	0.46
2:AA:2568:C:C2'	2:AA:2569:G:H5'	2.46	0.46
2:AA:2507:C:C4	2:AA:2583:G:C2	3.04	0.46
2:AA:2597:G:C6	2:AA:2598:A:C6	3.03	0.46
2:AA:2647:U:H1'	2:AA:2674:G:H22	1.79	0.46
2:AA:270(Q):C:N1	2:AA:270(R):G:C8	2.84	0.46
2:AA:2720:U:C2	2:AA:2721:A:C8	3.04	0.46
2:AA:2732:G:H3'	2:AA:2733:A:C5'	2.46	0.46
2:AA:2783:G:C4	2:AA:2784:C:C5	3.03	0.46
2:AA:2804:C:C6	2:AA:2805:G:C2	3.04	0.46
2:AA:2832:U:C4'	2:AA:2832:U:C6	2.98	0.46
2:AA:288:C:C4'	2:AA:288:C:C6	2.98	0.46
2:AA:303:U:N3	2:AA:315:G:N2	2.63	0.46
2:AA:319:C:N3	2:AA:323:G:N2	2.59	0.46
2:AA:332:A:N6	2:AA:335:C:C2	2.84	0.46
2:AA:372:G:H3'	2:AA:372:G:C8	2.51	0.46
2:AA:223:A:N1	2:AA:408:G:O4'	2.49	0.46
2:AA:495:G:H4'	18:AS:57:ASN:OD1	2.16	0.46
2:AA:583:G:O2'	2:AA:584:C:C5'	2.61	0.46
2:AA:608:A:C2'	2:AA:609:A:C5'	2.89	0.46
2:AA:611:C:O2'	2:AA:616:A:C2	2.53	0.46
2:AA:637:A:OP2	14:AO:110:GLY:N	2.42	0.46
2:AA:701:G:C2	2:AA:702:G:N7	2.84	0.46
2:AA:769:G:N1	2:AA:770:G:C5	2.84	0.46
2:AA:806:C:N1	2:AA:807:U:C5	2.82	0.46
2:AA:895:U:O2'	2:AA:896:A:C8	2.63	0.46
2:AA:941:A:C2	2:AA:942:G:N9	2.84	0.46
2:AA:821:A:C8	2:AA:946:G:C8	3.03	0.46
1:AB:52:A:C4'	1:AB:52:A:OP1	2.64	0.46
1:AB:57:A:H1'	7:AG:13:MET:HE3	1.95	0.46
1:AB:97:G:C6	1:AB:98:G:N7	2.84	0.46
3:AC:148:ASN:CG	3:AC:151:GLU:HB2	2.37	0.46
3:AC:75:LEU:HB2	3:AC:110:PHE:CD2	2.51	0.46
4:AD:131:LEU:HD13	4:AD:171:VAL:CG2	2.45	0.46
4:AD:156:ALA:O	4:AD:194:VAL:HB	2.16	0.46
4:AD:166:LYS:C	4:AD:167:GLU:OE2	2.54	0.46
4:AD:131:LEU:HD12	4:AD:171:VAL:CG2	2.46	0.46
4:AD:84:PRO:HG2	4:AD:84:PRO:O	2.15	0.46
5:AE:210:THR:HG22	5:AE:255:GLN:CG	2.46	0.46
5:AE:213:PRO:HG3	5:AE:235:ILE:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:269:ILE:HB	5:AE:270:ASP:CG	2.36	0.46
5:AE:46:ALA:O	5:AE:305:LYS:HB3	2.16	0.46
5:AE:77:PRO:HB2	5:AE:186:GLU:HB2	1.97	0.46
6:AF:235:PHE:HB3	6:AF:239:ALA:CB	2.46	0.46
2:AA:2313:C:P	7:AG:51:ARG:HB3	2.56	0.46
8:AH:112:VAL:H	8:AH:151:ARG:HH12	1.64	0.46
8:AH:143:LEU:O	8:AH:146:ASN:HB2	2.16	0.46
2:AA:1036:G:P	8:AH:58:LYS:HD2	2.55	0.46
9:AI:66:PHE:CD2	9:AI:73:VAL:HB	2.50	0.46
10:AK:4:ILE:HD11	10:AK:39:ALA:N	2.30	0.46
11:AL:107:GLU:HA	11:AL:110:LYS:CE	2.46	0.46
11:AL:105:ILE:HG23	11:AL:128:ILE:CD1	2.46	0.46
11:AL:72:THR:HG21	11:AL:115:ASP:N	2.30	0.46
13:AN:21:VAL:HA	13:AN:41:ALA:HB2	1.97	0.46
13:AN:81:GLU:C	13:AN:82:ASN:OD1	2.54	0.46
14:AO:113:GLN:O	14:AO:115:ARG:CD	2.64	0.46
15:AP:133:GLU:OE1	15:AP:134:PHE:CA	2.63	0.46
16:AQ:66:LEU:HB3	16:AQ:69:TYR:OH	2.15	0.46
20:AU:33:GLU:O	20:AU:34:GLU:C	2.54	0.46
21:AV:21:ALA:HB3	21:AV:34:LEU:CD1	2.34	0.46
15:AP:42:TYR:HB2	21:AV:99:HIS:NE2	2.31	0.46
22:AW:28:LEU:HA	22:AW:31:ARG:HE	1.80	0.46
22:AW:43:PRO:HB2	22:AW:46:ILE:HD13	1.97	0.46
22:AW:49:LEU:O	22:AW:53:ILE:HG13	2.15	0.46
34:BA:1015:A:C5	34:BA:1016:A:C5	3.04	0.46
34:BA:1128:C:H1'	34:BA:1146:A:C6	2.50	0.46
34:BA:953:G:C6	34:BA:1229:A:N6	2.84	0.46
34:BA:1258:G:O2'	34:BA:1259:C:O4'	2.33	0.46
34:BA:1289:A:O2'	34:BA:1290:G:H5'	2.15	0.46
34:BA:1311:G:O5'	34:BA:1311:G:H8	1.99	0.46
34:BA:1306:A:C4	34:BA:1332:A:C8	3.04	0.46
34:BA:1375:A:H2'	34:BA:1376:U:H6	1.81	0.46
34:BA:1407:C:H2'	34:BA:1408:A:H5'	1.95	0.46
34:BA:791:G:N2	34:BA:1497:G:H5''	2.31	0.46
34:BA:1512:U:O2'	34:BA:1513:A:H5'	2.16	0.46
34:BA:20:U:O2'	34:BA:21:G:H5'	2.16	0.46
34:BA:23:C:O2	34:BA:23:C:C2'	2.62	0.46
34:BA:249:U:N3	34:BA:276:G:C6	2.84	0.46
34:BA:246:A:N6	34:BA:279:A:C4	2.84	0.46
34:BA:321:A:C8	34:BA:328:C:C4	3.04	0.46
34:BA:343:U:C2'	34:BA:344:A:O5'	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:62:U:O2'	34:BA:379:C:O2	2.32	0.46
34:BA:389:A:C2'	34:BA:390:C:O5'	2.59	0.46
34:BA:390:C:C2	34:BA:391:G:C8	3.04	0.46
34:BA:499:A:N9	34:BA:547:A:N6	2.64	0.46
34:BA:608:A:H2'	34:BA:609:A:O5'	2.16	0.46
34:BA:729:A:O2'	34:BA:730:G:O5'	2.33	0.46
34:BA:738:C:C2	34:BA:739:C:C6	3.04	0.46
34:BA:743:U:H2'	34:BA:744:C:H6	1.80	0.46
34:BA:834:C:H2'	34:BA:835:U:O4'	2.16	0.46
34:BA:892:A:H2'	34:BA:893:C:C6	2.50	0.46
34:BA:932:C:C2'	34:BA:932:C:O2	2.55	0.46
34:BA:9:G:OP2	40:BH:121:LYS:HA	2.16	0.46
35:BB:34:G:N1	36:B1:66:G:OP2	2.49	0.46
35:BC:9:A:C5'	35:BC:10:G:OP2	2.64	0.46
35:BC:14:A:C2	35:BC:22:G:C4	3.04	0.46
35:BC:7:U:C4	35:BC:67:A:N1	2.84	0.46
37:BE:193:ASP:O	37:BE:196:LEU:HG	2.16	0.46
37:BE:75:LYS:CG	37:BE:78:GLN:NE2	2.74	0.46
37:BE:82:ARG:CZ	37:BE:92:TYR:OH	2.64	0.46
38:BF:117:ALA:C	38:BF:119:ARG:N	2.66	0.46
38:BF:110:ASN:HB3	38:BF:144:SER:OG	2.15	0.46
39:BG:155:LEU:CB	39:BG:158:ILE:HG12	2.36	0.46
34:BA:7:G:N2	40:BH:121:LYS:HG2	2.31	0.46
41:BI:23:LYS:HA	41:BI:26:ILE:CG1	2.43	0.46
41:BI:52:ILE:HD13	41:BI:87:ARG:HH12	1.81	0.46
42:BJ:122:HIS:N	42:BJ:122:HIS:CD2	2.80	0.46
42:BJ:31:MET:CG	42:BJ:32:ARG:N	2.77	0.46
42:BJ:46:ALA:O	42:BJ:47:CYS:C	2.54	0.46
44:BL:11:LYS:C	44:BL:12:GLU:CD	2.75	0.46
45:BM:54:PHE:CE2	45:BM:55:LYS:HE3	2.50	0.46
46:BN:53:SER:OG	46:BN:54:ARG:HD3	2.16	0.46
48:BP:77:ASN:C	48:BP:80:ARG:HD3	2.35	0.46
38:BF:29:TYR:CZ	49:BQ:54:PRO:HG2	2.44	0.46
50:BR:41:GLU:HA	50:BR:44:LYS:HZ1	1.79	0.46
51:BS:19:ILE:HB	51:BS:37:GLY:CA	2.46	0.46
51:BS:43:LYS:HG3	51:BS:48:TRP:HE3	1.78	0.46
51:BS:67:THR:HG22	51:BS:68:ASP:N	2.31	0.46
52:BT:86:GLU:O	52:BT:87:LYS:C	2.53	0.46
52:BT:87:LYS:O	52:BT:88:TYR:C	2.50	0.46
53:BU:60:GLY:C	53:BU:62:GLU:N	2.67	0.46
53:BU:64:ARG:HG3	53:BU:64:ARG:HH11	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BW:26:ASN:CB	55:BW:71:THR:HG23	2.46	0.46
10:AK:104:ALA:CB	10:AK:105:GLN:OE1	2.60	0.46
10:AK:79:ILE:N	10:AK:79:ILE:CD1	2.61	0.46
2:AA:1050:A:C6	2:AA:2751:G:C6	3.04	0.46
11:AL:52:MET:SD	11:AL:81:LYS:CB	3.04	0.46
36:B1:27:G:C6	36:B1:28:U:O4	2.69	0.46
26:A2:4:ILE:HA	26:A2:12:TYR:HD2	1.74	0.46
27:A3:19:LYS:O	27:A3:35:ASN:O	2.33	0.46
27:A3:5:LYS:HZ3	35:BC:3:G:H5''	1.80	0.46
29:A5:11:THR:H	29:A5:16:ARG:NH2	2.07	0.46
30:A6:48:VAL:HG12	30:A6:49:VAL:N	2.30	0.46
32:A8:17:THR:O	32:A8:19:THR:N	2.48	0.46
32:A8:22:VAL:HG13	32:A8:23:MET:N	2.23	0.46
2:AA:1077:A:H3'	2:AA:1078:U:C6	2.51	0.46
2:AA:1110:G:H5''	2:AA:1111:A:OP1	2.15	0.46
2:AA:1138:G:N2	2:AA:1139:G:N9	2.63	0.46
2:AA:1155:A:C3'	2:AA:1156:A:H5''	2.43	0.46
2:AA:1163:G:O2'	2:AA:1164:G:H5'	2.16	0.46
2:AA:818:G:C6	2:AA:1187:G:N3	2.84	0.46
2:AA:1213:A:C5	2:AA:1237:A:C4	3.04	0.46
2:AA:1241:A:H5''	2:AA:1242:A:OP2	2.16	0.46
2:AA:1265:A:C8	2:AA:1267:U:N3	2.77	0.46
2:AA:1271:G:O5'	2:AA:1272:A:OP1	2.33	0.46
2:AA:1289:C:C2'	2:AA:1290:C:O5'	2.63	0.46
2:AA:1303:G:O6	2:AA:1624:G:O6	2.33	0.46
2:AA:139:G:C8	2:AA:142:G:H1'	2.51	0.46
2:AA:1401:G:C6	2:AA:1402:C:C4	3.04	0.46
2:AA:143:C:OP2	2:AA:143:C:N1	2.49	0.46
2:AA:1536:A:H8	2:AA:1538:G:O4'	1.92	0.46
2:AA:1569:A:C6	2:AA:1570:A:N6	2.84	0.46
2:AA:1581:G:N1	2:AA:1582:C:N4	2.63	0.46
2:AA:1410:G:C6	2:AA:1593:G:C6	3.04	0.46
2:AA:1726:G:O6	2:AA:1727:U:N3	2.49	0.46
2:AA:1797:C:O2'	2:AA:1798:U:H5'	2.15	0.46
2:AA:1938:A:C2'	2:AA:1939:U:O5'	2.64	0.46
2:AA:1941:C:C5	2:AA:1965:C:N1	2.84	0.46
2:AA:18:C:C2	2:AA:19:C:C6	3.04	0.46
2:AA:2020:A:H62	2:AA:2022:U:H3	1.64	0.46
2:AA:2075:U:C5	2:AA:2597:G:N2	2.84	0.46
2:AA:2115:G:N3	2:AA:2116:G:OP1	2.49	0.46
2:AA:2115:G:O3'	2:AA:2117:A:OP2	2.32	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2180:U:N1	2:AA:2181:G:C8	2.84	0.46
2:AA:2094:G:C6	2:AA:2196:C:C4	3.04	0.46
2:AA:2291:U:OP1	2:AA:2381:C:C5'	2.64	0.46
2:AA:2316:C:O2'	7:AG:151:ILE:CD1	2.64	0.46
2:AA:2355:C:C5	2:AA:2356:C:C4	3.03	0.46
2:AA:2385:C:O2	2:AA:2386:C:C6	2.69	0.46
2:AA:830:G:N7	2:AA:2448:A:H8	2.12	0.46
2:AA:2063:C:C2	2:AA:2451:A:C2	3.04	0.46
2:AA:2457:U:C3'	2:AA:2458:G:H5'	2.33	0.46
2:AA:2617:C:C4	2:AA:2618:G:N7	2.84	0.46
2:AA:264:C:O2'	2:AA:265:A:H3'	2.16	0.46
2:AA:2785:C:H4'	5:AE:99:VAL:HG22	1.97	0.46
2:AA:2877:G:C6	2:AA:2878:U:O4	2.69	0.46
2:AA:289:A:C2'	2:AA:351:G:N7	2.79	0.46
2:AA:298:G:O6	20:AU:24:ARG:NH1	2.49	0.46
2:AA:319:C:N4	2:AA:320:A:N6	2.63	0.46
2:AA:452:G:C3'	2:AA:453:C:C5'	2.88	0.46
2:AA:566:U:C6	2:AA:567:A:C8	3.03	0.46
2:AA:603:A:C2	2:AA:625:G:C4	3.04	0.46
2:AA:628:G:OP2	2:AA:628:G:C8	2.69	0.46
2:AA:640:C:C5	2:AA:641:C:C5	3.04	0.46
2:AA:639:U:N3	2:AA:649:G:N1	2.63	0.46
2:AA:65:C:C4	2:AA:66:C:H5	2.33	0.46
2:AA:771:G:N2	2:AA:772:C:C2	2.84	0.46
2:AA:945:A:O2'	2:AA:946:G:OP1	2.27	0.46
2:AA:954:G:C2'	2:AA:955:C:H5'	2.45	0.46
2:AA:983:A:N9	2:AA:984:A:H1'	2.22	0.46
2:AA:983:A:C3'	2:AA:984:A:O4'	2.53	0.46
1:AB:62:C:N3	1:AB:63:G:N7	2.64	0.46
1:AB:75:G:C6	1:AB:76:G:C2	3.04	0.46
3:AC:196:LEU:O	3:AC:197:GLU:C	2.53	0.46
3:AC:56:GLN:HG3	3:AC:201:PRO:HG2	1.97	0.46
3:AC:36:LYS:HZ1	3:AC:37:PHE:H	1.62	0.46
3:AC:68:LEU:HD11	3:AC:160:ARG:O	2.15	0.46
3:AC:91:ALA:O	3:AC:92:ASP:OD1	2.34	0.46
4:AD:78:ALA:HA	4:AD:113:MET:CG	2.45	0.46
2:AA:1819:A:OP1	4:AD:157:ALA:CB	2.63	0.46
4:AD:170:TYR:HD1	4:AD:182:MET:HE3	1.81	0.46
4:AD:65:ASP:HA	4:AD:67:LYS:NZ	2.31	0.46
5:AE:205:THR:HG22	5:AE:261:ARG:HD2	1.98	0.46
2:AA:2512:C:OP1	5:AE:219:VAL:HG13	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:269:ILE:HG23	5:AE:297:LYS:NZ	2.28	0.46
2:AA:606:U:H5'	6:AF:103:ASN:ND2	2.31	0.46
6:AF:83:ALA:HB3	6:AF:87:ARG:NH2	1.99	0.46
7:AG:105:SER:C	7:AG:106:PHE:CG	2.89	0.46
7:AG:19:GLU:O	7:AG:20:LYS:HB2	2.16	0.46
8:AH:93:TYR:CD2	8:AH:106:VAL:HG22	2.51	0.46
8:AH:161:ILE:O	8:AH:162:ARG:CG	2.63	0.46
9:AI:3:ILE:HG22	9:AI:4:ASP:N	2.30	0.46
9:AJ:25:LEU:HA	9:AJ:28:LYS:CG	2.46	0.46
11:AL:104:GLN:HA	11:AL:107:GLU:HG2	1.97	0.46
11:AL:35:ILE:HG13	11:AL:35:ILE:H	1.56	0.46
11:AL:28:LEU:CD1	11:AL:58:ILE:HD12	2.33	0.46
12:AM:21:ARG:HA	12:AM:24:SER:CB	2.46	0.46
12:AM:50:GLU:O	12:AM:53:ILE:CG2	2.41	0.46
13:AN:22:ILE:CB	13:AN:40:VAL:O	2.53	0.46
13:AN:89:ASP:O	13:AN:90:ASP:C	2.52	0.46
13:AN:99:PHE:O	13:AN:100:GLY:C	2.55	0.46
14:AO:112:GLY:C	14:AO:113:GLN:CD	2.75	0.46
14:AO:116:HIS:O	14:AO:117:GLU:C	2.55	0.46
2:AA:2276:G:P	15:AP:104:PRO:HD2	2.55	0.46
15:AP:48:ASN:CG	15:AP:48:ASN:O	2.54	0.46
15:AP:26:LYS:HZ2	15:AP:88:PHE:HB3	1.77	0.46
15:AP:28:ILE:CD1	15:AP:89:PRO:CD	2.94	0.46
16:AQ:26:LEU:HD23	16:AQ:26:LEU:HA	1.52	0.46
18:AS:32:ALA:HA	18:AS:35:ILE:HD12	1.98	0.46
21:AV:112:LEU:CD2	21:AV:142:ASN:HA	2.46	0.46
1:AB:75:G:O3'	21:AV:32:PHE:CE2	2.69	0.46
2:AA:111:A:C4'	22:AW:62:GLU:OE2	2.63	0.46
23:AX:53:LEU:HD22	23:AX:54:VAL:HG13	1.98	0.46
34:BA:1160:G:C2	34:BA:1161:C:C6	3.04	0.46
34:BA:1169:A:N7	34:BA:1171:G:C5	2.84	0.46
34:BA:1195:C:N3	34:BA:1197:G:N7	2.64	0.46
34:BA:1206:G:O6	34:BA:1207:G:C6	2.69	0.46
34:BA:1283:G:H2'	34:BA:1284:C:H5'	1.97	0.46
34:BA:1286:A:C2'	34:BA:1287:A:O5'	2.64	0.46
34:BA:1290:G:H2'	34:BA:1291:G:H5'	1.97	0.46
34:BA:1343:G:H4'	44:BL:122:ALA:CB	2.27	0.46
34:BA:1068:G:H5'	34:BA:1388:C:OP1	2.16	0.46
34:BA:1419:G:O2'	34:BA:1420:C:H5'	2.15	0.46
34:BA:1488:G:C4	34:BA:1489:G:C8	3.03	0.46
34:BA:1404:C:H42	34:BA:1497:G:H1	1.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:161:A:C6	34:BA:162:A:C6	3.04	0.46
34:BA:68:G:O4'	34:BA:171:A:H1'	2.16	0.46
34:BA:188:C:C2'	34:BA:189:G:O5'	2.64	0.46
34:BA:272:C:C2	34:BA:273:A:N7	2.84	0.46
34:BA:65:U:H2'	34:BA:381:C:H5	1.81	0.46
34:BA:391:G:O3'	51:BS:8:ARG:NH2	2.48	0.46
34:BA:3(A):G:O6	34:BA:1037:C:N3	2.49	0.46
34:BA:627:G:C2	34:BA:628:G:N7	2.84	0.46
34:BA:668:G:N3	50:BR:46:HIS:CE1	2.83	0.46
2:AA:1848:A:C5	34:BA:702:A:N1	2.84	0.46
34:BA:716:A:H2'	34:BA:717:C:C5'	2.46	0.46
34:BA:728:A:C6	34:BA:729:A:C5	3.04	0.46
34:BA:748:C:H3'	34:BA:748:C:C6	2.51	0.46
34:BA:790:A:C6	34:BA:791:G:C4	3.04	0.46
34:BA:818:G:N2	34:BA:820:U:H3	2.11	0.46
34:BA:892:A:C2	34:BA:893:C:C2	3.04	0.46
35:BB:51:G:C8	35:BB:52:U:C5	3.04	0.46
35:BB:53:G:C3'	35:BB:53:G:C8	2.99	0.46
35:BB:58:A:C2	35:BB:61:C:C1'	3.00	0.46
35:BC:58:A:H3'	35:BC:58:A:C8	2.50	0.46
37:BE:193:ASP:HB2	37:BE:196:LEU:HD21	1.98	0.46
37:BE:32:ILE:HD11	37:BE:40:HIS:CB	2.46	0.46
38:BF:182:ILE:CG2	38:BF:202:ILE:C	2.85	0.46
38:BF:206:GLU:OE2	38:BF:207:VAL:CG2	2.64	0.46
38:BF:65:ALA:O	38:BF:66:VAL:CB	2.64	0.46
39:BG:13:ARG:NH2	39:BG:36:ARG:HD3	2.31	0.46
34:BA:409:G:OP2	39:BG:22:LYS:HG2	2.16	0.46
40:BH:144:THR:CG2	40:BH:145:LYS:N	2.78	0.46
40:BH:151:LEU:HD21	43:BK:67:PRO:CD	2.35	0.46
42:BJ:102:ARG:HG2	42:BJ:103:TRP:N	2.31	0.46
34:BA:1290:G:O3'	42:BJ:37:ASN:CG	2.55	0.46
43:BK:32:LYS:HG2	43:BK:33:GLU:N	2.29	0.46
43:BK:45:ILE:HD12	43:BK:48:TYR:HB3	1.93	0.46
45:BM:26:ALA:C	45:BM:28:ARG:N	2.68	0.46
45:BM:99:LYS:C	45:BM:100:THR:CG2	2.85	0.46
46:BN:12:ARG:O	46:BN:13:GLN:O	2.32	0.46
46:BN:50:TYR:CG	46:BN:54:ARG:HB2	2.51	0.46
46:BN:71:LYS:O	46:BN:74:ALA:HB3	2.16	0.46
47:BO:93:LEU:O	47:BO:96:VAL:CG2	2.60	0.46
48:BP:13:LYS:HA	48:BP:44:ARG:CZ	2.43	0.46
48:BP:16:ASP:HA	48:BP:19:LEU:CD2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BQ:48:ALA:C	49:BQ:50:LYS:N	2.69	0.46
52:BT:29:HIS:ND1	52:BT:32:TYR:N	2.64	0.46
52:BT:45:HIS:O	52:BT:73:VAL:CG2	2.48	0.46
52:BT:57:VAL:CG2	52:BT:58:GLU:N	2.77	0.46
52:BT:63:ARG:O	52:BT:64:PRO:C	2.54	0.46
34:BA:735:C:O2'	53:BU:75:ILE:CD1	2.64	0.46
55:BW:57:ARG:HH21	55:BW:100:ILE:HB	1.81	0.46
55:BW:39:LYS:O	55:BW:42:GLN:HB2	2.16	0.46
55:BW:44:ALA:HB3	55:BW:91:LEU:CD1	2.46	0.46
12:AM:11:ILE:O	12:AM:11:ILE:HG22	2.16	0.46
2:AA:2:G:C2	2:AA:2902:C:N3	2.84	0.46
45:BM:13:HIS:HB2	45:BM:68:HIS:HD1	1.81	0.46
17:AR:51:TRP:HA	17:AR:51:TRP:CE3	2.50	0.46
24:A0:105:ARG:CZ	24:A0:105:ARG:CB	2.94	0.45
24:A0:66:VAL:HG13	24:A0:70:LEU:HD11	1.98	0.45
25:A1:115:ASN:HA	25:A1:118:GLN:O	2.16	0.45
26:A2:42:GLY:HA3	26:A2:54:TYR:CE2	2.51	0.45
26:A2:62:GLU:C	26:A2:95:ILE:HG22	2.36	0.45
28:A4:14:ILE:HG21	28:A4:38:GLY:O	2.16	0.45
30:A6:11:LYS:CE	30:A6:26:LYS:HE2	2.38	0.45
2:AA:105:C:O2	2:AA:106:C:C6	2.69	0.45
2:AA:111:A:H3'	2:AA:112:U:H5''	1.92	0.45
2:AA:1280:G:O2'	2:AA:1281:G:O5'	2.35	0.45
2:AA:1318:C:O2	2:AA:1318:C:H2'	2.15	0.45
2:AA:1358:G:H1	2:AA:1371:G:H2'	1.78	0.45
2:AA:1477:A:C2	2:AA:1516:U:O2	2.69	0.45
2:AA:1660:C:N3	2:AA:2001:A:C6	2.85	0.45
2:AA:1709:U:C3'	2:AA:1709:U:C6	2.99	0.45
2:AA:1741:C:C2'	2:AA:1742:C:C5'	2.85	0.45
2:AA:1903:G:C2'	2:AA:1904:G:H8	2.01	0.45
2:AA:1906:G:C4	2:AA:1907:G:N7	2.84	0.45
2:AA:1937:A:HO2'	2:AA:1938:A:P	2.40	0.45
2:AA:1999:C:O2'	2:AA:2000:G:C5'	2.62	0.45
2:AA:2014:A:H2'	2:AA:2015:A:N3	2.30	0.45
2:AA:2028:U:C2'	2:AA:2029:G:C8	2.90	0.45
2:AA:204:A:C4	2:AA:206:U:C4	3.03	0.45
2:AA:2287:A:N6	2:AA:2289:G:C2	2.85	0.45
2:AA:2302:G:C2'	2:AA:2303:G:O5'	2.64	0.45
2:AA:2450:A:N3	2:AA:2451:A:O4'	2.49	0.45
2:AA:2457:U:H2'	2:AA:2458:G:O4'	2.17	0.45
2:AA:2573:C:P	2:AA:2574:G:OP1	2.73	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2615:U:O2'	2:AA:2616:C:P	2.74	0.45
2:AA:270(I):G:C6	2:AA:270(J):G:N7	2.84	0.45
2:AA:2748:A:H2	2:AA:2758:A:N7	2.14	0.45
2:AA:2836:U:C2	2:AA:2837:G:C8	3.04	0.45
2:AA:338:G:OP1	2:AA:338:G:C8	2.68	0.45
2:AA:467:G:OP1	31:A7:30:ILE:CG2	2.64	0.45
2:AA:510:C:OP1	2:AA:512:G:N2	2.49	0.45
2:AA:52:A:H2'	2:AA:53:A:C8	2.51	0.45
2:AA:606:U:OP2	6:AF:105:LYS:NZ	2.48	0.45
2:AA:611:C:C2	2:AA:617:G:N1	2.85	0.45
2:AA:641:C:N3	2:AA:647:G:C2	2.84	0.45
2:AA:658:C:O2	2:AA:659:C:N1	2.49	0.45
2:AA:752:A:C5	2:AA:1781:C:C1'	2.76	0.45
2:AA:904:C:H2'	2:AA:905:U:H6	1.82	0.45
2:AA:954:G:O2'	2:AA:955:C:H5'	2.16	0.45
2:AA:981:A:C5'	2:AA:982:C:OP2	2.61	0.45
1:AB:109:G:C2'	1:AB:110:G:O5'	2.64	0.45
3:AC:116:THR:CG2	3:AC:149:ILE:HD12	2.40	0.45
3:AC:89:ALA:HA	3:AC:154:ARG:NH2	2.31	0.45
3:AC:137:LEU:HG	3:AC:164:ARG:HH21	1.80	0.45
3:AC:5:LYS:HZ1	3:AC:8:ARG:CB	2.18	0.45
4:AD:115:ILE:HG21	4:AD:127:ASN:ND2	2.31	0.45
4:AD:166:LYS:C	4:AD:167:GLU:CD	2.75	0.45
5:AE:198:TYR:O	5:AE:314:ALA:CB	2.63	0.45
5:AE:216:ARG:NH2	5:AE:255:GLN:N	2.64	0.45
5:AE:222:ARG:CD	5:AE:232:ARG:C	2.84	0.45
5:AE:221:LYS:CB	5:AE:222:ARG:HD2	2.46	0.45
6:AF:35:VAL:O	6:AF:36:ARG:C	2.55	0.45
6:AF:56:THR:HG22	6:AF:57:PRO:HD3	1.97	0.45
7:AG:25:MET:N	7:AG:129:ASP:OD2	2.49	0.45
10:AK:49:ALA:O	10:AK:52:GLN:HB2	2.16	0.45
12:AM:14:ALA:CA	12:AM:40:ASN:HD22	2.28	0.45
2:AA:1022:G:O6	12:AM:47:THR:CG2	2.60	0.45
13:AN:5:GLU:HB3	13:AN:20:LEU:HD21	1.98	0.45
13:AN:25:LEU:O	13:AN:30:ARG:NH1	2.48	0.45
13:AN:31:ARG:O	13:AN:32:TYR:CD1	2.69	0.45
13:AN:79:PHE:O	13:AN:81:GLU:N	2.49	0.45
14:AO:65:ASP:OD1	14:AO:68:GLU:CD	2.54	0.45
15:AP:82:LYS:HB2	15:AP:125:TRP:CA	2.45	0.45
16:AQ:87:LEU:O	16:AQ:90:LEU:N	2.49	0.45
18:AS:11:ARG:HH11	18:AS:11:ARG:CG	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:63:ASP:OD1	18:AS:63:ASP:N	2.49	0.45
19:AT:34:LYS:O	19:AT:35:GLY:O	2.34	0.45
19:AT:43:GLU:CD	19:AT:43:GLU:H	2.19	0.45
21:AV:163:ASP:OD2	21:AV:164:PRO:CD	2.64	0.45
23:AX:16:PRO:HB3	23:AX:19:GLN:OE1	2.15	0.45
23:AX:8:LEU:C	23:AX:54:VAL:HG12	2.30	0.45
34:BA:1033:G:C2	34:BA:1034:G:C5	3.04	0.45
34:BA:1072:G:C2	34:BA:1104:G:N2	2.84	0.45
34:BA:1128:C:N4	34:BA:1139:G:H1	2.14	0.45
34:BA:1196:U:C4'	34:BA:1197:G:O5'	2.64	0.45
34:BA:1298:C:H4'	34:BA:1299:A:N3	2.30	0.45
34:BA:1378:C:H42	34:BA:1379:G:H1'	1.81	0.45
34:BA:1393:U:H2'	34:BA:1394:A:OP2	2.16	0.45
34:BA:1407:C:O5'	34:BA:1407:C:H6	1.99	0.45
34:BA:1414:U:H2'	34:BA:1415:G:H8	1.81	0.45
34:BA:1427:U:C2'	34:BA:1428:A:O5'	2.64	0.45
34:BA:1418:A:C2	34:BA:1483:A:C6	3.03	0.45
34:BA:1392:G:H21	34:BA:1502:A:H8	1.63	0.45
34:BA:1519:A:H3'	34:BA:1519:A:C8	2.51	0.45
34:BA:1520:G:H2'	34:BA:1521:G:C8	2.49	0.45
34:BA:1525:G:H2'	34:BA:1526:G:O4'	2.17	0.45
34:BA:219:C:C3'	34:BA:219:C:H6	2.14	0.45
34:BA:238:G:O2'	34:BA:239:U:H5'	2.16	0.45
34:BA:261:U:H5''	34:BA:262:A:OP2	2.16	0.45
34:BA:33:A:H2'	34:BA:33:A:N3	2.30	0.45
34:BA:376:G:N2	34:BA:387:U:O2	2.44	0.45
34:BA:392:G:H5'	51:BS:12:LYS:NZ	2.30	0.45
34:BA:428:G:N2	34:BA:430:A:N6	2.63	0.45
34:BA:510:A:O2'	34:BA:542:G:C2'	2.64	0.45
34:BA:673:G:C6	34:BA:734:G:C6	3.04	0.45
34:BA:690:G:C2'	34:BA:691:G:C5'	2.94	0.45
34:BA:715:A:O4'	34:BA:777:A:C6	2.69	0.45
34:BA:83:U:C2	34:BA:84:U:C6	3.04	0.45
34:BA:888:G:OP2	34:BA:889:A:C2'	2.63	0.45
34:BA:90:U:OP2	34:BA:90:U:C6	2.69	0.45
34:BA:91:C:C2	34:BA:92:C:C6	3.05	0.45
35:BB:7:U:C4'	35:BB:8:U:OP2	2.64	0.45
35:BB:7:U:O4	35:BB:67:A:C6	2.69	0.45
35:BC:26:G:N3	35:BC:26:G:H2'	2.31	0.45
35:BC:71:G:N2	35:BC:72:C:O2	2.50	0.45
37:BE:175:ARG:HD3	37:BE:179:LYS:HZ1	1.78	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:102:LEU:HD23	37:BE:176:GLU:HB2	1.92	0.45
37:BE:21:ARG:N	37:BE:39:ILE:HG12	2.31	0.45
37:BE:57:PHE:O	37:BE:60:ASP:HB3	2.17	0.45
37:BE:60:ASP:HB3	37:BE:64:ARG:HH12	1.82	0.45
37:BE:61:LEU:HD23	37:BE:62:ALA:N	2.31	0.45
38:BF:101:LEU:HD23	38:BF:101:LEU:C	2.36	0.45
38:BF:29:TYR:HA	38:BF:32:LEU:HD12	1.98	0.45
38:BF:52:LEU:HA	38:BF:70:VAL:HG13	1.98	0.45
39:BG:120:LEU:CG	39:BG:125:HIS:HD2	2.30	0.45
39:BG:193:ASP:OD2	39:BG:194:LEU:CD2	2.63	0.45
40:BH:109:ILE:CD1	40:BH:135:THR:HG22	2.46	0.45
40:BH:71:LEU:HD21	40:BH:114:GLY:O	2.16	0.45
41:BI:49:ALA:CB	53:BU:79:LEU:N	2.79	0.45
41:BI:80:ARG:O	41:BI:85:VAL:HB	2.16	0.45
42:BJ:12:LEU:N	42:BJ:12:LEU:HD12	2.31	0.45
42:BJ:72:ARG:NH2	42:BJ:138:LYS:HZ3	2.06	0.45
42:BJ:18:TYR:HD2	42:BJ:59:LEU:HD22	1.80	0.45
34:BA:1351:U:O2'	42:BJ:33:ASP:OD2	2.23	0.45
44:BL:47:LEU:HD13	44:BL:50:LEU:CB	2.46	0.45
45:BM:51:ARG:H	45:BM:59:SER:CB	2.29	0.45
34:BA:522:C:OP1	47:BO:120:TYR:HE2	1.99	0.45
48:BP:29:ARG:CD	48:BP:64:TRP:CE2	2.99	0.45
48:BP:29:ARG:HD3	48:BP:64:TRP:CD2	2.51	0.45
48:BP:63:THR:HG22	48:BP:64:TRP:H	1.80	0.45
50:BR:40:SER:C	50:BR:44:LYS:HZ1	2.20	0.45
51:BS:39:TYR:CD1	51:BS:39:TYR:C	2.90	0.45
34:BA:255:G:OP2	52:BT:66:SER:HB3	2.17	0.45
53:BU:65:ILE:CG1	53:BU:66:LEU:N	2.80	0.45
53:BU:50:ILE:HD11	53:BU:74:ARG:NH2	2.30	0.45
34:BA:108:G:C6	55:BW:15:ARG:CD	2.99	0.45
1:AB:0:A:N3	1:AB:0:A:O4'	2.48	0.45
24:A0:52:ILE:CD1	24:A0:94:TYR:CB	2.79	0.45
25:A1:49:ASP:HB3	25:A1:53:LYS:HE3	1.98	0.45
2:AA:1151:G:C5'	25:A1:81:ASN:HD21	2.29	0.45
25:A1:87:ASN:HB3	25:A1:88:ILE:HD13	1.97	0.45
26:A2:40:VAL:HA	26:A2:51:ALA:O	2.16	0.45
29:A5:30:LEU:HD23	29:A5:41:LEU:HA	1.97	0.45
31:A7:22:MET:O	31:A7:28:ARG:CG	2.62	0.45
2:AA:466:A:O3'	31:A7:30:ILE:HG21	2.16	0.45
32:A8:54:GLU:O	32:A8:55:TRP:O	2.34	0.45
32:A8:64:ARG:HH11	32:A8:64:ARG:CG	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1163:G:H4'	26:A2:23:GLU:OE2	2.16	0.45
2:AA:819:A:N3	2:AA:1189:A:C2	2.84	0.45
2:AA:814:C:N3	2:AA:1193:G:O6	2.48	0.45
2:AA:1360:A:N6	2:AA:1372:U:C6	2.84	0.45
2:AA:1439:A:C8	2:AA:1440:G:C1'	2.99	0.45
2:AA:143:C:OP2	2:AA:143:C:O4'	2.33	0.45
2:AA:1475:G:O6	2:AA:1517:G:C2	2.69	0.45
2:AA:1565:C:C2	2:AA:1567:A:O4'	2.69	0.45
2:AA:1625:C:C5	2:AA:1626:G:H8	2.34	0.45
2:AA:1637:A:O2'	2:AA:2711:A:H1'	2.15	0.45
2:AA:1717:G:C2	2:AA:1718:G:N3	2.84	0.45
2:AA:1741:C:C2'	2:AA:1741:C:O2	2.64	0.45
2:AA:1755:A:H8	2:AA:1755:A:OP2	1.98	0.45
2:AA:1636:C:O2'	2:AA:1760:A:C2'	2.65	0.45
2:AA:1699:G:C5	2:AA:1763:G:C2	3.04	0.45
2:AA:729:G:N2	2:AA:1775:U:O4'	2.50	0.45
2:AA:1364:G:P	2:AA:1809:A:N6	2.89	0.45
2:AA:1926:U:H6	2:AA:1926:U:O5'	1.99	0.45
2:AA:1666:G:C2	2:AA:1995:U:O2	2.69	0.45
2:AA:200:U:C4	2:AA:201:C:O2	2.70	0.45
2:AA:2010:G:O2'	2:AA:2011:U:H5'	2.17	0.45
2:AA:2019:A:O2'	2:AA:2020:A:C4'	2.65	0.45
2:AA:2137:C:OP1	2:AA:2137:C:C4'	2.65	0.45
2:AA:2206:C:C2	2:AA:2207:C:C6	3.04	0.45
2:AA:2218:G:C2	2:AA:2219:G:C4	3.04	0.45
2:AA:2306:C:N4	2:AA:2311:A:C2	2.67	0.45
2:AA:2312:U:O4	2:AA:2313:C:N4	2.49	0.45
2:AA:2404:C:C4	2:AA:2405:G:C5	3.03	0.45
2:AA:2519:U:OP1	2:AA:2519:U:C3'	2.56	0.45
2:AA:2548:G:C3'	2:AA:2548:G:C8	2.99	0.45
2:AA:2587:A:C2'	2:AA:2588:G:C5'	2.89	0.45
2:AA:2669:G:H2'	2:AA:2670:A:O5'	2.16	0.45
2:AA:2767:C:C4	2:AA:2768:C:N4	2.84	0.45
2:AA:280:C:C2	2:AA:360:G:N1	2.79	0.45
2:AA:2818:G:N1	2:AA:2829:C:C4	2.84	0.45
2:AA:326:G:O2'	2:AA:327:G:H5'	2.16	0.45
2:AA:339:U:H5''	2:AA:339:U:H6	1.82	0.45
2:AA:364:C:C2'	2:AA:365:C:C6	2.98	0.45
2:AA:398:G:OP1	28:A4:58:LYS:CD	2.64	0.45
2:AA:502:A:H8	2:AA:502:A:H3'	1.80	0.45
2:AA:519:U:C4'	18:AS:75:TYR:CB	2.88	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:52:A:H2'	2:AA:53:A:H8	1.80	0.45
2:AA:531:C:C2'	2:AA:531:C:O2	2.54	0.45
2:AA:630:G:O2'	2:AA:631:A:H8	1.99	0.45
2:AA:637:A:OP2	14:AO:109:LEU:CD2	2.60	0.45
2:AA:629:G:C1'	2:AA:639:U:O2'	2.43	0.45
2:AA:658:C:H2'	2:AA:659:C:C6	2.51	0.45
2:AA:709:U:C2'	2:AA:710:G:C8	2.89	0.45
2:AA:799:G:H8	2:AA:799:G:OP2	1.99	0.45
2:AA:885:C:C6	2:AA:885:C:H3'	2.49	0.45
2:AA:885:C:H5''	2:AA:887:A:C2	2.51	0.45
2:AA:904:C:O2'	2:AA:905:U:H5'	2.15	0.45
2:AA:944:G:O2'	2:AA:945:A:OP2	2.29	0.45
2:AA:996:A:O3'	25:A1:93:LYS:CG	2.57	0.45
1:AB:52:A:OP1	1:AB:52:A:H4'	2.15	0.45
1:AB:56:G:H8	1:AB:56:G:O5'	1.99	0.45
4:AD:146:LYS:HE3	4:AD:184:LEU:HD11	1.98	0.45
4:AD:70:LYS:HG3	4:AD:73:ILE:HD12	1.99	0.45
6:AF:108:GLN:O	6:AF:109:LEU:C	2.52	0.45
6:AF:116:ALA:O	6:AF:117:ALA:C	2.54	0.45
6:AF:213:ALA:HB1	6:AF:218:VAL:CB	2.45	0.45
6:AF:21:VAL:HG11	6:AF:246:ARG:O	2.17	0.45
7:AG:47:GLN:O	7:AG:48:MET:O	2.34	0.45
8:AH:58:LYS:CA	8:AH:61:ARG:CZ	2.95	0.45
8:AH:75:VAL:C	8:AH:77:GLY:N	2.63	0.45
9:AI:19:ALA:HB1	9:AJ:45:ALA:O	2.16	0.45
9:AI:20:GLU:OE1	9:AJ:53:GLN:NE2	2.49	0.45
11:AL:104:GLN:HA	11:AL:107:GLU:CD	2.36	0.45
11:AL:45:GLU:CD	11:AL:70:ILE:CD1	2.85	0.45
12:AM:53:ILE:O	12:AM:54:VAL:C	2.55	0.45
12:AM:74:ARG:CD	12:AM:141:ALA:O	2.64	0.45
13:AN:5:GLU:HA	13:AN:20:LEU:CD2	2.46	0.45
13:AN:68:GLY:CA	13:AN:78:ARG:CG	2.94	0.45
13:AN:68:GLY:N	13:AN:78:ARG:HE	2.04	0.45
15:AP:62:GLU:H	15:AP:62:GLU:HG3	1.46	0.45
16:AQ:34:LEU:HD23	16:AQ:100:ALA:HB3	1.97	0.45
16:AQ:26:LEU:HD13	16:AQ:101:VAL:HG22	1.97	0.45
18:AS:11:ARG:O	18:AS:12:ILE:HG13	2.16	0.45
21:AV:40:ASP:HB2	21:AV:41:ARG:HE	1.81	0.45
22:AW:27:LEU:HD12	22:AW:53:ILE:HD12	1.99	0.45
22:AW:20:LEU:HD11	22:AW:53:ILE:CG2	2.46	0.45
34:BA:1017:G:O2'	34:BA:1018:C:H5'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1025:U:H2'	34:BA:1026:G:C5	2.51	0.45
34:BA:1032:G:O2'	34:BA:1033:G:O4'	2.31	0.45
34:BA:108:G:N2	34:BA:108:G:OP2	2.50	0.45
34:BA:1091:U:C4	34:BA:1093:A:P	3.09	0.45
34:BA:1104:G:O2'	34:BA:1105:A:C5'	2.54	0.45
34:BA:1095:U:P	34:BA:1108:G:H1	2.34	0.45
34:BA:112:G:H2'	34:BA:113:G:H5'	1.99	0.45
34:BA:1138:G:C2	34:BA:1140:C:C5	3.04	0.45
34:BA:1158:C:H2'	34:BA:1158:C:O2	2.16	0.45
34:BA:1168:A:N1	34:BA:1169:A:C2	2.84	0.45
34:BA:1190:G:O2'	34:BA:1191:A:OP2	2.32	0.45
34:BA:1206:G:O4'	38:BF:194:GLY:HA2	2.17	0.45
34:BA:1211:U:O2'	34:BA:1213:A:N3	2.45	0.45
34:BA:1281:U:C6	34:BA:1281:U:H3'	2.49	0.45
34:BA:1284:C:H2'	34:BA:1285:A:N7	2.28	0.45
34:BA:1315:U:C3'	34:BA:1316:G:C8	2.94	0.45
34:BA:1353:G:C6	34:BA:1354:C:N4	2.84	0.45
34:BA:1386:G:H2'	34:BA:1387:G:O5'	2.16	0.45
34:BA:13:U:H6	34:BA:13:U:C5'	2.18	0.45
34:BA:1412:C:C2	34:BA:1413:A:C8	3.04	0.45
34:BA:1496:C:C4	34:BA:1497:G:C5	3.04	0.45
34:BA:20:U:O5'	34:BA:20:U:C6	2.69	0.45
34:BA:228:A:HO2'	34:BA:229:U:H5'	1.78	0.45
34:BA:269:C:C2'	34:BA:270:A:O5'	2.65	0.45
34:BA:30:U:O2'	34:BA:31:G:P	2.74	0.45
34:BA:325:A:OP2	55:BW:70:SER:HB2	2.15	0.45
34:BA:359:U:H2'	34:BA:360:A:C8	2.46	0.45
34:BA:379:C:H2'	34:BA:380:G:H5'	1.97	0.45
34:BA:391:G:H2'	34:BA:392:G:O5'	2.17	0.45
34:BA:411:A:H3'	34:BA:411:A:C8	2.52	0.45
34:BA:421:U:O5'	34:BA:422:C:H5	1.98	0.45
34:BA:517:G:O2'	34:BA:530:G:C4'	2.41	0.45
34:BA:540:G:N3	34:BA:541:G:H1'	2.31	0.45
34:BA:543:C:C2	34:BA:544:G:N7	2.85	0.45
34:BA:58:C:C6	34:BA:58:C:H5"	2.51	0.45
34:BA:698:G:H3'	34:BA:698:G:P	2.55	0.45
34:BA:731:G:H2'	34:BA:732:C:H6	1.81	0.45
34:BA:746:A:C8	34:BA:746:A:O5'	2.69	0.45
34:BA:810:C:H2'	34:BA:811:C:O5'	2.16	0.45
34:BA:834:C:C4	34:BA:853:G:N1	2.84	0.45
34:BA:932:C:H4'	42:BJ:4:ARG:NH1	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:958:A:C1'	54:BV:55:LYS:HD2	2.45	0.45
34:BA:989:C:O2'	34:BA:990:C:H5'	2.16	0.45
34:BA:995:C:H2'	49:BQ:4:LYS:HZ2	1.80	0.45
35:BC:2:C:H2'	35:BC:3:G:O5'	2.16	0.45
27:A3:5:LYS:NZ	35:BC:3:G:OP1	2.45	0.45
35:BC:50:U:N3	35:BC:65:G:N2	2.64	0.45
37:BE:59:GLU:CA	37:BE:221:LEU:HD21	2.43	0.45
37:BE:25:ASN:ND2	37:BE:25:ASN:C	2.68	0.45
37:BE:57:PHE:O	37:BE:57:PHE:HD2	2.00	0.45
38:BF:183:ASP:OD2	38:BF:184:TYR:N	2.50	0.45
38:BF:188:LEU:HD22	38:BF:189:ALA:H	1.81	0.45
38:BF:12:LEU:CD1	38:BF:18:TRP:N	2.65	0.45
40:BH:109:ILE:HD12	40:BH:135:THR:CG2	2.47	0.45
40:BH:11:ILE:CB	40:BH:31:LEU:HD22	2.45	0.45
41:BI:21:LEU:O	41:BI:24:GLU:CG	2.61	0.45
41:BI:33:TYR:CZ	41:BI:75:LEU:CA	2.97	0.45
41:BI:46:ARG:NH1	53:BU:37:VAL:CG2	2.78	0.45
42:BJ:10:ARG:HH11	42:BJ:10:ARG:CB	2.29	0.45
42:BJ:64:GLN:HG3	42:BJ:68:ASN:HD21	1.81	0.45
42:BJ:76:ARG:CZ	42:BJ:89:MET:CE	2.94	0.45
44:BL:114:TYR:HD2	44:BL:114:TYR:N	2.13	0.45
45:BM:16:LEU:HB3	45:BM:70:ARG:HE	1.81	0.45
46:BN:99:GLN:HB3	46:BN:105:VAL:HG11	1.98	0.45
48:BP:108:ARG:NH1	48:BP:111:LYS:HB3	2.30	0.45
49:BQ:57:ARG:O	49:BQ:58:LYS:C	2.54	0.45
50:BR:42:HIS:CE1	50:BR:46:HIS:CD2	3.03	0.45
50:BR:67:LEU:HB3	50:BR:78:TYR:CE1	2.50	0.45
51:BS:21:VAL:HG21	51:BS:59:TRP:NE1	2.30	0.45
51:BS:5:ARG:HA	51:BS:67:THR:OG1	2.16	0.45
52:BT:53:LEU:CG	52:BT:54:GLY:N	2.79	0.45
52:BT:86:GLU:OE2	52:BT:89:LEU:CD1	2.63	0.45
54:BV:53:ASN:ND2	54:BV:58:VAL:HG13	2.28	0.45
55:BW:83:ARG:HB3	55:BW:87:LYS:HE3	1.99	0.45
55:BW:81:LYS:O	55:BW:84:LEU:N	2.49	0.45
10:AK:66:LYS:O	10:AK:69:LYS:CB	2.62	0.45
7:AG:12:GLU:CD	7:AG:12:GLU:O	2.55	0.45
24:A0:57:ARG:NE	24:A0:62:ALA:HB2	2.29	0.45
24:A0:65:LEU:O	24:A0:68:ARG:CB	2.64	0.45
25:A1:27:SER:C	25:A1:31:GLN:HG3	2.33	0.45
26:A2:5:ILE:HD12	26:A2:39:PHE:CE2	2.51	0.45
26:A2:95:ILE:HD12	26:A2:95:ILE:H	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:A3:74:LYS:O	27:A3:75:GLY:O	2.33	0.45
29:A5:6:VAL:HG13	29:A5:7:PRO:CG	2.47	0.45
2:AA:1001:A:N7	2:AA:1002:G:C4	2.84	0.45
2:AA:1011:G:O2'	2:AA:1013:C:H5''	2.16	0.45
2:AA:1033:U:O5'	2:AA:1034:G:OP1	2.33	0.45
2:AA:1044:G:N1	2:AA:1048:A:C6	2.85	0.45
2:AA:1092:C:H6	2:AA:1092:C:H3'	1.80	0.45
2:AA:1121:C:C2	2:AA:1122:G:C8	3.05	0.45
2:AA:1179:C:C2	2:AA:1180:C:H5	2.35	0.45
2:AA:124:G:O2'	31:A7:19:ARG:NH1	2.49	0.45
2:AA:1270:C:H1'	2:AA:1325:G:C6	2.51	0.45
2:AA:1326:U:O2'	2:AA:2010:G:O2'	2.20	0.45
2:AA:1342:A:H2'	2:AA:1345:C:H41	1.81	0.45
2:AA:1351:C:C4	2:AA:1381:G:C2	3.05	0.45
2:AA:1418:G:N2	2:AA:1580:A:C2	2.85	0.45
2:AA:1566:A:C2	4:AD:212:HIS:HB3	2.49	0.45
2:AA:1644:C:H2'	2:AA:1644:C:O2	2.17	0.45
2:AA:1668:A:C8	2:AA:1993:U:O4	2.69	0.45
2:AA:1780:A:P	2:AA:1782:C:OP1	2.74	0.45
2:AA:1785:A:C3'	2:AA:1785:A:H8	2.29	0.45
2:AA:1818:U:O2	2:AA:1818:U:H2'	2.16	0.45
2:AA:1885:A:C8	2:AA:1886:C:C5	3.04	0.45
2:AA:1953:A:O2'	2:AA:2559:C:O2'	2.21	0.45
2:AA:1935:G:C6	2:AA:1962:C:C5	3.04	0.45
2:AA:2195:C:O2'	2:AA:2196:C:C4'	2.64	0.45
2:AA:2261:C:O5'	2:AA:2261:C:H6	1.99	0.45
2:AA:2318:G:O2'	2:AA:2319:G:OP2	2.28	0.45
2:AA:2345:G:N2	2:AA:2382:G:P	2.82	0.45
2:AA:2351:G:C5'	2:AA:2352:A:OP1	2.64	0.45
2:AA:2349:G:N1	2:AA:2369:A:C6	2.85	0.45
2:AA:2466:C:C6	2:AA:2466:C:C3'	3.00	0.45
2:AA:2476:A:C8	2:AA:2476:A:H3'	2.51	0.45
2:AA:1629:U:O2	2:AA:2698:U:H5''	2.17	0.45
2:AA:2767:C:H2'	2:AA:2768:C:O5'	2.15	0.45
2:AA:2853:C:C2'	2:AA:2854:G:C5'	2.91	0.45
2:AA:2862:G:O2'	2:AA:2863:C:C5'	2.64	0.45
2:AA:326:G:C5	2:AA:327:G:N7	2.85	0.45
2:AA:43:G:N2	2:AA:44:A:H1'	2.31	0.45
2:AA:499:U:C2'	2:AA:500:G:C5'	2.90	0.45
2:AA:503:A:C2	2:AA:506:G:N3	2.84	0.45
2:AA:586:A:H5''	2:AA:587:C:OP1	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:603:A:H61	2:AA:624:C:H41	1.62	0.45
2:AA:625:G:N1	2:AA:626:U:O4'	2.49	0.45
2:AA:650:C:N3	2:AA:651:G:C4	2.84	0.45
2:AA:666:G:C4	2:AA:667:U:C5	3.04	0.45
2:AA:740:U:O2'	2:AA:741:G:C5'	2.63	0.45
2:AA:771:G:N3	2:AA:772:C:C5	2.85	0.45
2:AA:684:G:H2'	2:AA:775:G:O6	2.15	0.45
2:AA:881:G:C5	2:AA:882:G:C5	3.04	0.45
2:AA:955:C:N4	2:AA:962:G:N1	2.18	0.45
1:AB:20:C:O2'	1:AB:21:G:H5'	2.17	0.45
3:AC:110:PHE:CE1	3:AC:136:LEU:HD13	2.51	0.45
3:AC:29:VAL:HG22	3:AC:216:THR:HG23	1.98	0.45
3:AC:28:LEU:HA	3:AC:31:GLU:OE1	2.14	0.45
2:AA:2131:G:H2'	3:AC:5:LYS:O	2.17	0.45
4:AD:174:ARG:CZ	4:AD:174:ARG:CB	2.90	0.45
4:AD:179:GLU:C	4:AD:180:VAL:CG2	2.82	0.45
5:AE:109:ASP:CG	5:AE:112:LEU:HB3	2.36	0.45
2:AA:1671:U:O2'	5:AE:225:LYS:HE3	2.16	0.45
5:AE:61:PRO:CB	5:AE:69:PRO:CA	2.74	0.45
6:AF:138:VAL:O	6:AF:139:VAL:HB	2.16	0.45
6:AF:144:PHE:CD2	6:AF:156:LEU:HD11	2.52	0.45
6:AF:193:LEU:CD1	6:AF:223:LEU:HB2	2.47	0.45
7:AG:38:GLU:HA	7:AG:41:LEU:CG	2.45	0.45
9:AJ:111:ALA:HB1	9:AJ:115:LYS:HE3	1.97	0.45
9:AJ:13:LEU:HD13	9:AJ:21:LEU:HD12	1.99	0.45
11:AL:20:PRO:O	11:AL:21:ALA:C	2.54	0.45
12:AM:42:GLU:O	12:AM:132:LEU:O	2.35	0.45
15:AP:35:ASN:CB	15:AP:75:SER:HA	2.47	0.45
15:AP:47:GLU:O	15:AP:140:TYR:OH	2.26	0.45
15:AP:72:VAL:O	15:AP:73:GLN:CB	2.64	0.45
16:AQ:124:ASP:C	16:AQ:126:GLY:N	2.65	0.45
16:AQ:99:GLU:CD	16:AQ:128:ASP:CB	2.84	0.45
16:AQ:34:LEU:HA	16:AQ:47:LEU:CD2	2.46	0.45
17:AR:49:LEU:HD13	17:AR:54:THR:HG21	1.98	0.45
18:AS:4:LYS:HE3	18:AS:106:ILE:CG1	2.46	0.45
19:AT:23:LYS:HG2	19:AT:67:ARG:CG	2.45	0.45
19:AT:6:LYS:NZ	19:AT:28:VAL:O	2.43	0.45
19:AT:50:GLU:HB2	19:AT:51:GLN:H	1.57	0.45
20:AU:101:LEU:HD22	20:AU:103:LEU:HG	1.97	0.45
20:AU:65:VAL:HA	20:AU:72:ILE:CG1	2.47	0.45
20:AU:92:ASP:OD2	20:AU:94:SER:HB3	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:51:LEU:CD2	21:AV:65:LEU:HG	2.47	0.45
2:AA:94:G:H22	22:AW:42:ASN:ND2	2.09	0.45
34:BA:1017:G:H2'	34:BA:1018:C:C6	2.49	0.45
34:BA:101:A:C4	34:BA:102:G:N7	2.84	0.45
34:BA:1030:C:C4	34:BA:1032:G:C6	3.05	0.45
34:BA:1047:G:H2'	34:BA:1048:G:H5'	1.98	0.45
34:BA:1422:G:C6	34:BA:1423:G:C5	3.04	0.45
34:BA:1494:G:N3	34:BA:1495:U:H5	2.15	0.45
34:BA:1514:C:C4	34:BA:1515:C:N4	2.84	0.45
34:BA:161:A:C2'	34:BA:162:A:O5'	2.64	0.45
34:BA:285:G:C5	34:BA:286:G:N7	2.85	0.45
34:BA:134:A:H1'	34:BA:325:A:N1	2.31	0.45
34:BA:341:C:O2'	34:BA:342:C:C5'	2.65	0.45
34:BA:359:U:O2'	34:BA:360:A:H5'	2.16	0.45
34:BA:397:A:N6	34:BA:548:G:C5	2.84	0.45
34:BA:575:G:C6	34:BA:821:G:N7	2.84	0.45
34:BA:582:U:N1	52:BT:105:ALA:HB1	2.31	0.45
34:BA:608:A:N3	34:BA:609:A:C8	2.85	0.45
34:BA:707:C:H2'	34:BA:708:C:C5'	2.47	0.45
34:BA:739:C:N3	34:BA:740:U:C6	2.84	0.45
34:BA:934:C:C5	34:BA:1344:C:C5	3.04	0.45
34:BA:947:G:C4	34:BA:948:C:C5	3.05	0.45
34:BA:97:G:C5	34:BA:98:U:C5	3.04	0.45
35:BC:11:C:H2'	35:BC:12:U:C6	2.51	0.45
35:BC:34:G:N1	36:B1:62:G:N1	2.47	0.45
37:BE:193:ASP:CB	37:BE:196:LEU:HD21	2.46	0.45
37:BE:221:LEU:O	37:BE:221:LEU:HD13	2.17	0.45
37:BE:39:ILE:CG2	37:BE:40:HIS:N	2.80	0.45
37:BE:61:LEU:HD21	37:BE:66:GLY:O	2.16	0.45
37:BE:70:PHE:CD1	37:BE:90:MET:HB2	2.49	0.45
37:BE:71:VAL:CG2	37:BE:93:VAL:HB	2.46	0.45
38:BF:121:ALA:CB	38:BF:187:ALA:HB1	2.47	0.45
38:BF:20:SER:OG	38:BF:57:ILE:HB	2.17	0.45
38:BF:20:SER:HB2	38:BF:40:ARG:HH22	1.75	0.45
39:BG:38:TYR:CB	39:BG:39:PRO:HD2	2.25	0.45
39:BG:40:PRO:O	39:BG:44:GLY:CA	2.62	0.45
40:BH:9:LYS:NZ	40:BH:108:ALA:HA	2.32	0.45
40:BH:62:ALA:O	40:BH:64:ARG:O	2.34	0.45
41:BI:12:PRO:HG3	41:BI:57:GLN:HE22	1.82	0.45
42:BJ:31:MET:O	42:BJ:32:ARG:HB3	2.16	0.45
46:BN:31:THR:HG23	46:BN:42:TRP:CB	2.33	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:32:ILE:HG12	46:BN:41:THR:O	2.16	0.45
47:BO:33:ARG:NE	47:BO:33:ARG:HA	2.24	0.45
48:BP:91:ARG:HD2	48:BP:98:VAL:HA	1.98	0.45
49:BQ:24:CYS:CA	49:BQ:33:VAL:HG11	2.46	0.45
34:BA:751:U:OP1	50:BR:18:PHE:CZ	2.69	0.45
51:BS:6:LEU:CD2	51:BS:17:TYR:HD2	2.08	0.45
34:BA:1539:C:OP1	53:BU:54:ARG:NH1	2.49	0.45
53:BU:74:ARG:CA	53:BU:79:LEU:CD2	2.93	0.45
54:BV:33:THR:CG2	54:BV:34:TRP:N	2.79	0.45
55:BW:43:LEU:HD22	55:BW:48:LYS:HG2	1.99	0.45
56:BX:5:ASP:OD1	56:BX:7:ARG:N	2.46	0.45
10:AK:94:THR:CG2	10:AK:94:THR:O	2.64	0.45
3:AC:180:PHE:HD2	3:AC:184:LYS:CB	2.29	0.45
36:B1:14:U:H6	36:B1:14:U:OP2	1.99	0.45
36:B1:15:A:C2	36:B1:41:U:O2	2.68	0.45
2:AA:2900:A:H2'	2:AA:2901:C:C6	2.48	0.45
34:BA:806:C:N3	34:BA:807:A:C5	2.85	0.45
24:A0:100:LEU:HB2	24:A0:111:LEU:C	2.34	0.45
24:A0:25:ALA:O	24:A0:28:LEU:HB3	2.16	0.45
25:A1:15:LYS:O	25:A1:18:LEU:CB	2.53	0.45
2:AA:1216:G:OP1	25:A1:8:ILE:HG22	2.16	0.45
27:A3:39:ARG:HG2	27:A3:69:PHE:CE1	2.48	0.45
2:AA:2079:U:O3'	28:A4:32:HIS:CD2	2.70	0.45
28:A4:73:LYS:OXT	28:A4:73:LYS:CG	2.61	0.45
29:A5:49:CYS:HB3	29:A5:50:GLY:H	1.35	0.45
30:A6:32:GLN:OE1	30:A6:35:LEU:HD12	2.17	0.45
2:AA:54:G:O2'	31:A7:35:ARG:NH2	2.49	0.45
33:A9:10:MET:H	33:A9:14:CYS:HB2	1.82	0.45
2:AA:2528:U:P	33:A9:30:VAL:HG11	2.57	0.45
2:AA:1003:G:N1	2:AA:1153:C:C5	2.85	0.45
2:AA:1021:A:C2	2:AA:1122:G:C4'	3.00	0.45
2:AA:1151:G:O2'	2:AA:1152:C:H5'	2.17	0.45
2:AA:124:G:OP1	2:AA:1376:C:O4'	2.34	0.45
2:AA:1303:G:N7	2:AA:1304:C:N4	2.64	0.45
2:AA:1308:A:N1	2:AA:1608:A:N1	2.64	0.45
2:AA:1359:A:O2'	2:AA:1360:A:H5'	2.16	0.45
2:AA:1425:G:H2'	2:AA:1426:G:C4	2.51	0.45
2:AA:1538:G:C8	2:AA:1539:G:O4'	2.69	0.45
2:AA:1561:G:H8	2:AA:1561:G:O5'	1.99	0.45
2:AA:1664:A:C8	2:AA:1664:A:C3'	3.00	0.45
2:AA:1669:A:N3	2:AA:1670:C:H5'	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1788:C:H2'	2:AA:1789:A:H8	1.81	0.45
2:AA:1834:U:C2'	2:AA:1834:U:O2	2.60	0.45
2:AA:1856:G:H2'	2:AA:1857:G:C5'	2.46	0.45
2:AA:1948:G:C2	2:AA:1949:G:C5	3.04	0.45
2:AA:1975:G:C6	2:AA:1976:U:C4	3.04	0.45
2:AA:2000:G:N1	2:AA:2001:A:C5	2.84	0.45
2:AA:2044:C:C2'	2:AA:2045:C:H5'	2.46	0.45
2:AA:2056:G:P	2:AA:2057:A:OP2	2.74	0.45
2:AA:2206:C:C4	2:AA:2207:C:C5	3.04	0.45
2:AA:2228:G:N7	2:AA:2229:C:C5	2.84	0.45
2:AA:2254:C:C2'	2:AA:2255:G:C5'	2.86	0.45
2:AA:2269:A:O2'	2:AA:2270:G:C5'	2.65	0.45
2:AA:2275:C:HO2'	2:AA:2276:G:P	2.37	0.45
2:AA:21:A:C5	2:AA:22:C:C5	3.04	0.45
2:AA:645:C:OP2	2:AA:2369:A:H4'	2.16	0.45
2:AA:239:U:H2'	2:AA:240:G:H8	1.80	0.45
2:AA:2498:C:O2	2:AA:2498:C:C2'	2.57	0.45
2:AA:2505:G:H2'	2:AA:2576:G:H21	1.74	0.45
2:AA:2516:G:H2'	2:AA:2517:C:C6	2.51	0.45
2:AA:1669:A:H4'	2:AA:2550:G:P	2.57	0.45
2:AA:2564:A:O2'	2:AA:2565:A:C5'	2.62	0.45
2:AA:2638:G:N7	2:AA:2775:A:C6	2.85	0.45
2:AA:2532:G:H21	2:AA:2663:G:H1'	1.81	0.45
2:AA:25:U:C4	2:AA:26:G:C5	3.04	0.45
2:AA:2736:G:N1	2:AA:2769:C:C4	2.85	0.45
2:AA:27:G:H1'	2:AA:513:A:N6	2.32	0.45
2:AA:2794:C:N4	2:AA:2802:G:N1	2.42	0.45
2:AA:289:A:C8	2:AA:350:U:O4	2.69	0.45
2:AA:319:C:N1	2:AA:320:A:C8	2.85	0.45
2:AA:319:C:C4	2:AA:333:G:C2	3.04	0.45
2:AA:339:U:C4	2:AA:340:A:C6	3.04	0.45
2:AA:388:G:OP2	28:A4:23:GLU:CB	2.54	0.45
2:AA:390:A:O2'	2:AA:391:G:C8	2.68	0.45
2:AA:424:G:C2	2:AA:425:G:C8	3.04	0.45
2:AA:372:G:O6	2:AA:424:G:OP2	2.35	0.45
2:AA:499:U:H3'	2:AA:500:G:C8	2.52	0.45
2:AA:747:U:H6	2:AA:747:U:O5'	2.00	0.45
2:AA:778:G:C2	2:AA:787:U:C2	3.04	0.45
2:AA:863:A:N3	2:AA:864:G:N7	2.65	0.45
2:AA:879:G:N1	2:AA:880:G:C5	2.85	0.45
2:AA:930:U:O3'	2:AA:931:G:H4'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:936:C:C2'	2:AA:937:U:O5'	2.65	0.45
2:AA:968:G:H8	2:AA:968:G:O5'	2.00	0.45
1:AB:32:C:N3	1:AB:51:G:C2	2.85	0.45
1:AB:73:A:N3	1:AB:74:U:C6	2.84	0.45
3:AC:70:LYS:HA	3:AC:157:LYS:HE2	1.98	0.45
4:AD:176:ALA:C	4:AD:178:GLY:N	2.70	0.45
4:AD:171:VAL:C	4:AD:182:MET:HG2	2.37	0.45
4:AD:74:PRO:O	4:AD:74:PRO:HG2	2.16	0.45
5:AE:180:ILE:HG21	5:AE:187:HIS:HA	1.98	0.45
5:AE:72:VAL:CG1	5:AE:295:LEU:HD21	2.47	0.45
6:AF:194:PHE:CE1	6:AF:210:ALA:HA	2.52	0.45
6:AF:217:GLU:C	6:AF:218:VAL:HG23	2.36	0.45
6:AF:232:LEU:O	6:AF:233:THR:HG22	2.16	0.45
6:AF:24:THR:HB	6:AF:25:PRO:CD	2.45	0.45
6:AF:89:ALA:HB3	6:AF:90:HIS:CE1	2.51	0.45
8:AH:59:HIS:O	8:AH:60:HIS:C	2.50	0.45
2:AA:1104:C:O2'	9:AI:29:PHE:CD2	2.62	0.45
10:AK:32:LYS:O	10:AK:33:GLN:O	2.34	0.45
10:AK:6:LEU:O	10:AK:6:LEU:HD22	2.17	0.45
11:AL:79:LEU:O	11:AL:82:ALA:HB3	2.17	0.45
11:AL:96:ILE:HG21	21:AV:109:GLN:CD	2.37	0.45
11:AL:97:VAL:O	11:AL:99:LYS:HD2	2.16	0.45
11:AL:9:ILE:HD13	11:AL:28:LEU:HD22	1.97	0.45
12:AM:17:CYS:HB2	12:AM:22:VAL:CG2	2.43	0.45
15:AP:76:GLY:HA2	15:AP:126:VAL:CG2	2.46	0.45
15:AP:21:SER:OG	15:AP:92:VAL:HG21	2.16	0.45
15:AP:36:ASN:HD22	15:AP:41:THR:N	2.08	0.45
15:AP:82:LYS:O	15:AP:123:ILE:C	2.55	0.45
18:AS:18:ARG:NE	18:AS:76:VAL:HG12	2.32	0.45
21:AV:174:PRO:C	21:AV:175:ARG:HG2	2.36	0.45
21:AV:37:LYS:O	21:AV:40:ASP:CG	2.55	0.45
21:AV:43:PHE:HB3	21:AV:47:SER:OG	2.16	0.45
34:BA:1033:G:H2'	34:BA:1034:G:H8	1.81	0.45
34:BA:1050:G:H2'	34:BA:1051:C:C6	2.51	0.45
34:BA:1118:C:H1'	34:BA:1179:A:N9	2.32	0.45
34:BA:1151:A:H2'	34:BA:1152:A:O5'	2.16	0.45
34:BA:1057:G:C5	34:BA:1204:A:C2	3.05	0.45
34:BA:1241:G:H2'	34:BA:1242:C:C6	2.51	0.45
34:BA:1290:G:C2	34:BA:1291:G:C8	3.05	0.45
34:BA:130:A:H5''	34:BA:190(F):G:C2'	2.37	0.45
34:BA:1317:C:C2	49:BQ:16:PHE:CE2	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1319:A:H8	34:BA:1319:A:H3'	1.82	0.45
34:BA:1389:C:O2'	34:BA:1390:U:H5'	2.16	0.45
34:BA:1516:G:N3	34:BA:1518:A:OP2	2.49	0.45
34:BA:190(D):U:C6	34:BA:190(D):U:OP2	2.70	0.45
34:BA:263:A:C2'	34:BA:264:U:C5'	2.91	0.45
34:BA:6:G:H4'	34:BA:298:A:O2'	2.16	0.45
34:BA:1324:A:H5'	34:BA:361(A):C:O2'	2.17	0.45
34:BA:494:G:O2'	34:BA:495:U:C6	2.63	0.45
34:BA:51:A:N1	34:BA:353:A:N1	2.64	0.45
34:BA:549:C:C2	34:BA:550:G:C8	3.03	0.45
34:BA:640:A:N3	43:BK:115:SER:HB2	2.31	0.45
34:BA:643:C:O2'	43:BK:132:GLU:CD	2.55	0.45
34:BA:814:A:N7	34:BA:816:A:C6	2.84	0.45
34:BA:990:C:H2'	34:BA:991:U:O4'	2.17	0.45
35:BC:18:G:N1	35:BC:58:A:C6	2.84	0.45
35:BC:47:U:C5	35:BC:49:C:C4'	3.00	0.45
37:BE:102:LEU:C	37:BE:103:THR:OG1	2.55	0.45
37:BE:109:SER:O	37:BE:110:GLN:C	2.55	0.45
37:BE:121:LEU:HG	37:BE:121:LEU:H	1.30	0.45
37:BE:187:LEU:HD23	37:BE:201:ILE:CG2	2.23	0.45
38:BF:84:ILE:HA	38:BF:87:LEU:CD1	2.21	0.45
39:BG:154:ASN:N	39:BG:154:ASN:ND2	2.64	0.45
40:BH:103:GLY:CA	40:BH:107:ARG:NH2	2.79	0.45
40:BH:143:ARG:HH11	40:BH:143:ARG:HG3	1.81	0.45
41:BI:4:TYR:OH	41:BI:67:MET:CE	2.64	0.45
41:BI:67:MET:HB2	41:BI:68:PRO:HD2	1.98	0.45
42:BJ:99:LEU:HD23	42:BJ:102:ARG:CD	2.44	0.45
43:BK:32:LYS:HG2	43:BK:33:GLU:H	1.81	0.45
43:BK:40:ALA:HB2	43:BK:45:ILE:CG2	2.45	0.45
44:BL:33:PHE:CE1	44:BL:37:PHE:CE1	3.05	0.45
45:BM:79:ARG:O	45:BM:82:ILE:HG13	2.16	0.45
46:BN:103:LEU:HD22	46:BN:103:LEU:HA	1.62	0.45
46:BN:72:ALA:O	46:BN:77:MET:CB	2.63	0.45
48:BP:109:THR:HG22	48:BP:110:ARG:N	2.32	0.45
50:BR:29:VAL:CG1	50:BR:85:LEU:CD1	2.94	0.45
52:BT:62:SER:CB	52:BT:72:ARG:HG3	2.47	0.45
52:BT:83:ASP:HA	52:BT:86:GLU:HG2	1.98	0.45
52:BT:96:GLN:OE1	52:BT:97:SER:HB3	2.17	0.45
53:BU:52:PRO:O	53:BU:55:ARG:N	2.50	0.45
53:BU:76:LEU:CD2	53:BU:76:LEU:N	2.79	0.45
54:BV:15:LEU:HD13	54:BV:71:LEU:HD11	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BW:68:LYS:O	55:BW:69:GLY:O	2.34	0.45
35:BB:41:U:C5'	35:BB:41:U:C6	2.97	0.45
10:AK:115:ILE:CG2	10:AK:129:VAL:HG11	2.47	0.45
10:AK:77:VAL:CG1	10:AK:143:VAL:HG22	2.43	0.45
10:AK:69:LYS:CG	10:AK:73:GLU:OE1	2.65	0.45
2:AA:2246:G:C4	2:AA:2426:A:N3	2.85	0.45
2:AA:1147:C:C6	2:AA:1147:C:C3'	3.00	0.45
3:AC:16:PRO:C	3:AC:17:ASN:OD1	2.54	0.45
17:AR:40:ALA:O	17:AR:41:ASP:C	2.54	0.45
24:A0:82:GLU:HB3	24:A0:83:ILE:HD11	1.94	0.45
25:A1:111:ASP:C	25:A1:114:ARG:HG3	2.36	0.45
25:A1:35:ALA:HB3	25:A1:36:PHE:HD1	1.82	0.45
25:A1:39:LEU:O	25:A1:42:ALA:N	2.50	0.45
26:A2:80:TYR:O	26:A2:81:ARG:C	2.54	0.45
27:A3:25:LYS:HZ1	27:A3:57:HIS:HE1	1.62	0.45
28:A4:20:VAL:O	28:A4:21:VAL:O	2.35	0.45
28:A4:48:ARG:HD3	28:A4:49:PHE:CD2	2.51	0.45
30:A6:12:MET:O	30:A6:25:THR:O	2.35	0.45
31:A7:30:ILE:CD1	31:A7:33:ARG:HD2	2.44	0.45
2:AA:687:C:C4'	31:A7:4:THR:CG2	2.94	0.45
32:A8:18:GLY:O	32:A8:19:THR:C	2.54	0.45
32:A8:40:GLU:O	32:A8:41:ILE:C	2.55	0.45
2:AA:249:C:O2'	32:A8:8:LYS:CE	2.64	0.45
2:AA:2742:C:H5''	33:A9:35:ARG:NH2	2.32	0.45
2:AA:1000:A:C5	2:AA:1001:A:C2	3.04	0.45
2:AA:1063:G:N1	2:AA:1075:C:C4	2.84	0.45
2:AA:1120:G:C6	2:AA:1121:C:C4	3.04	0.45
2:AA:1181:C:HO2'	2:AA:1182:A:C1'	2.28	0.45
2:AA:1232:G:H2'	2:AA:1232:G:N3	2.31	0.45
2:AA:1235:G:C2'	2:AA:1236:G:O5'	2.65	0.45
2:AA:1360:A:N3	2:AA:1360:A:H2'	2.31	0.45
2:AA:139:G:O4'	2:AA:139:G:N3	2.49	0.45
2:AA:1418:G:H5'	2:AA:1587:A:O2'	2.16	0.45
2:AA:1424:G:C2'	2:AA:1424:G:N3	2.78	0.45
2:AA:1462:C:C2'	2:AA:1462:C:O2	2.61	0.45
2:AA:1466:G:H5''	2:AA:1467:C:OP1	2.17	0.45
2:AA:1498:C:O2	2:AA:1499:C:C2	2.69	0.45
2:AA:1609:A:O2'	2:AA:1616:A:C4'	2.65	0.45
2:AA:1690:A:C5	2:AA:1697:G:N2	2.84	0.45
2:AA:1718:G:C2'	2:AA:1725:G:H8	2.09	0.45
2:AA:152:G:N2	2:AA:176:G:N3	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1844:C:O2'	2:AA:1845:G:H5'	2.15	0.45
2:AA:1861:G:C5'	3:AC:205:LYS:HE2	2.46	0.45
2:AA:191:A:C2	2:AA:192:C:C4	3.04	0.45
2:AA:1952:A:H2'	2:AA:1953:A:O4'	2.16	0.45
2:AA:195:A:C2	2:AA:198:C:C4	3.04	0.45
2:AA:2019:A:C2'	2:AA:2020:A:H5''	2.46	0.45
2:AA:2027:G:N3	2:AA:2037:G:C2	2.85	0.45
2:AA:2049:G:C2	2:AA:2620:C:N3	2.85	0.45
2:AA:1853:A:C2	2:AA:2087:G:N3	2.84	0.45
2:AA:2137:C:N4	2:AA:2155:G:H1'	2.32	0.45
2:AA:2182:G:C2	2:AA:2183:C:C4	3.05	0.45
2:AA:2075:U:H3'	2:AA:2238:G:N2	2.31	0.45
2:AA:2255:G:N1	2:AA:2256:G:H1'	2.30	0.45
2:AA:2256:G:OP1	27:A3:5:LYS:HD3	2.16	0.45
2:AA:2263:C:H3'	2:AA:2263:C:C6	2.50	0.45
2:AA:2283:C:C2	2:AA:2284:C:C1'	2.99	0.45
2:AA:2350:C:H2'	2:AA:2351:G:O4'	2.16	0.45
2:AA:2077:A:C4	2:AA:2435:A:C8	3.04	0.45
2:AA:2466:C:O2	2:AA:2485:G:C4	2.70	0.45
2:AA:2492:U:C2'	2:AA:2493:U:C5'	2.95	0.45
2:AA:2509:G:C2	2:AA:2510:C:H1'	2.39	0.45
2:AA:2520:C:HO2'	2:AA:2521:C:H5'	1.71	0.45
2:AA:2535:G:H5'	2:AA:2536:G:OP2	2.17	0.45
2:AA:2054:A:C6	2:AA:2615:U:O4	2.66	0.45
2:AA:2648:C:C4	2:AA:2649:U:O4	2.70	0.45
2:AA:2662:A:C2	2:AA:2663:G:H4'	2.52	0.45
2:AA:2797:U:H1'	2:AA:2799:A:H8	1.81	0.45
2:AA:2814:C:H2'	2:AA:2815:C:C6	2.52	0.45
2:AA:281:G:C2'	2:AA:282:A:O4'	2.64	0.45
2:AA:2838:G:C4	2:AA:2839:G:C8	3.04	0.45
2:AA:2844:G:N3	2:AA:2845:G:C8	2.84	0.45
2:AA:2849:U:H4'	2:AA:2850:A:C5'	2.43	0.45
2:AA:2852:G:O6	2:AA:2866:U:O4	2.33	0.45
2:AA:2873:A:HO2'	2:AA:2874:C:P	2.40	0.45
2:AA:324:A:C6	2:AA:339:U:O2	2.70	0.45
2:AA:389:G:N3	2:AA:389:G:C2'	2.77	0.45
2:AA:414:C:C5'	2:AA:1863:G:N2	2.80	0.45
2:AA:601:C:O2	2:AA:601:C:C2'	2.64	0.45
2:AA:654:A:N1	2:AA:655:A:H3'	2.32	0.45
2:AA:685:A:C1'	2:AA:688:U:C4	2.99	0.45
2:AA:692:C:C2'	2:AA:693:C:H5'	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:698:C:C6	2:AA:698:C:C5'	2.90	0.45
2:AA:701:G:C2	2:AA:702:G:C8	3.04	0.45
2:AA:768:G:C2'	2:AA:769:G:H8	2.12	0.45
2:AA:782:A:O4'	2:AA:783:A:N6	2.49	0.45
2:AA:792:G:C4	2:AA:2440:C:C2	3.05	0.45
2:AA:963:U:H1'	2:AA:2250:G:H21	1.80	0.45
2:AA:988:A:C5	23:AX:13:ILE:HG21	2.52	0.45
2:AA:996:A:C2	2:AA:997:G:C5	3.05	0.45
2:AA:996:A:C4	2:AA:997:G:C8	3.05	0.45
1:AB:117:G:N3	1:AB:117:G:H2'	2.31	0.45
1:AB:13:A:N1	1:AB:69:G:H2'	2.31	0.45
1:AB:71:C:O2'	1:AB:72:G:C5'	2.62	0.45
1:AB:81:G:C5	1:AB:82:G:C8	3.04	0.45
1:AB:90:C:H2'	1:AB:91:C:O5'	2.15	0.45
3:AC:163:PHE:CE1	3:AC:199:HIS:CD2	3.04	0.45
3:AC:69:GLY:C	3:AC:157:LYS:HG2	2.37	0.45
2:AA:1818:U:C5'	4:AD:155:ARG:HG3	2.44	0.45
5:AE:211:GLN:N	5:AE:216:ARG:NH2	2.63	0.45
6:AF:114:ALA:O	6:AF:115:LEU:C	2.55	0.45
7:AG:19:GLU:HB3	7:AG:135:VAL:HG11	1.98	0.45
7:AG:95:THR:HG22	7:AG:96:SER:H	1.80	0.45
8:AH:102:LEU:HD21	8:AH:114:ILE:HG22	1.98	0.45
8:AH:158:GLY:O	8:AH:159:LYS:HB2	2.16	0.45
2:AA:1084:A:O3'	9:AI:34:ALA:CB	2.60	0.45
9:AJ:103:LYS:HD3	9:AJ:114:ILE:CD1	2.47	0.45
11:AL:114:PRO:HB2	11:AL:115:ASP:H	1.67	0.45
11:AL:79:LEU:O	11:AL:80:LYS:C	2.54	0.45
12:AM:45:VAL:CA	12:AM:132:LEU:HD13	2.46	0.45
13:AN:106:LEU:N	13:AN:106:LEU:CD2	2.64	0.45
14:AO:116:HIS:HD2	14:AO:118:LEU:CD2	2.28	0.45
15:AP:65:ARG:NH2	15:AP:122:PHE:CD2	2.79	0.45
15:AP:49:VAL:HG22	15:AP:120:HIS:CA	2.47	0.45
15:AP:59:ASN:CG	15:AP:60:ALA:H	2.15	0.45
2:AA:518:G:C4'	18:AS:18:ARG:NH2	2.77	0.45
18:AS:51:LEU:CD1	18:AS:51:LEU:N	2.78	0.45
19:AT:18:MET:SD	19:AT:24:LEU:HA	2.57	0.45
21:AV:112:LEU:HD23	21:AV:113:VAL:N	2.31	0.45
21:AV:15:ASP:O	21:AV:16:GLU:HG2	2.16	0.45
21:AV:123:VAL:CG1	21:AV:160:LEU:HA	2.47	0.45
36:B1:67:U:C3'	36:B1:68:U:H5'	2.46	0.45
34:BA:3(A):G:N1	34:BA:1037:C:O2	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1091:U:C4	34:BA:1093:A:OP2	2.69	0.45
34:BA:109:A:O4'	34:BA:109:A:N3	2.49	0.45
34:BA:1128:C:C4	34:BA:1139:G:C6	3.04	0.45
34:BA:1215:G:C2	34:BA:1216:G:N7	2.84	0.45
34:BA:1150:U:C1'	34:BA:1280:A:N6	2.79	0.45
34:BA:129(A):G:C2	34:BA:190(G):G:C4	3.05	0.45
34:BA:1329:A:H5'	48:BP:29:ARG:CZ	2.45	0.45
34:BA:1518:A:C8	34:BA:1518:A:O5'	2.57	0.45
34:BA:227:G:H2'	34:BA:228:A:H8	1.79	0.45
34:BA:238:G:N1	34:BA:239:U:C4	2.85	0.45
34:BA:260:G:C6	34:BA:261:U:N3	2.85	0.45
34:BA:271:C:C2	34:BA:272:C:C6	3.05	0.45
34:BA:410:G:C2	34:BA:429:U:N3	2.85	0.45
34:BA:522:C:H5	34:BA:523:A:H62	1.56	0.45
34:BA:542:G:H2'	34:BA:542:G:N3	2.30	0.45
34:BA:560:U:C5'	34:BA:566:G:N2	2.79	0.45
34:BA:685:G:H2'	34:BA:686:U:H6	1.81	0.45
34:BA:818:G:C3'	34:BA:819:A:H5''	2.32	0.45
34:BA:840:C:C5'	34:BA:841:U:O5'	2.59	0.45
34:BA:881:G:H2'	34:BA:882:C:C6	2.51	0.45
34:BA:895:G:C4	34:BA:896:C:C5	3.05	0.45
34:BA:961:U:O2'	34:BA:962:C:C5'	2.59	0.45
34:BA:951:G:C2'	34:BA:970:C:O2'	2.65	0.45
34:BA:976:G:C8	34:BA:361(A):C:N4	2.85	0.45
34:BA:988:G:C2	34:BA:989:C:H1'	2.52	0.45
35:BB:53:G:C2	35:BB:54:U:C4	3.04	0.45
35:BB:64:A:C2	35:BB:65:G:C4	3.04	0.45
37:BE:16:HIS:H	37:BE:210:SER:HB2	1.81	0.45
37:BE:39:ILE:O	37:BE:41:ILE:CD1	2.65	0.45
37:BE:90:MET:O	37:BE:91:PRO:C	2.54	0.45
38:BF:44:GLU:HG2	38:BF:52:LEU:CD1	2.46	0.45
38:BF:53:ALA:HB2	38:BF:115:LEU:HD11	1.98	0.45
39:BG:100:ARG:HG2	39:BG:100:ARG:NH1	2.31	0.45
39:BG:173:TRP:CD1	39:BG:189:PRO:HD3	2.51	0.45
39:BG:62:GLN:HB3	39:BG:66:ARG:CZ	2.47	0.45
40:BH:103:GLY:O	40:BH:104:ALA:C	2.54	0.45
40:BH:146:ALA:O	40:BH:149:GLU:N	2.50	0.45
40:BH:152:ARG:HA	43:BK:64:LYS:NZ	2.31	0.45
41:BI:6:VAL:HG11	41:BI:63:TYR:HB2	1.96	0.45
41:BI:80:ARG:H	41:BI:80:ARG:HG3	1.43	0.45
41:BI:80:ARG:NH1	41:BI:88:VAL:HG12	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BJ:29:LYS:HZ3	42:BJ:102:ARG:HH21	1.64	0.45
42:BJ:149:ARG:O	42:BJ:152:ALA:HB2	2.17	0.45
42:BJ:16:LEU:O	42:BJ:17:VAL:CG2	2.63	0.45
42:BJ:2:ALA:O	42:BJ:3:ARG:C	2.54	0.45
42:BJ:54:THR:CG2	42:BJ:54:THR:O	2.59	0.45
43:BK:24:THR:CG2	43:BK:61:VAL:H	2.28	0.45
47:BO:27:LEU:HD13	47:BO:62:SER:HB3	1.98	0.45
48:BP:67:GLU:HG2	48:BP:68:GLY:N	2.32	0.45
48:BP:77:ASN:HD21	48:BP:88:ARG:HH12	1.64	0.45
49:BQ:57:ARG:HG2	49:BQ:58:LYS:N	2.32	0.45
50:BR:66:LEU:HD13	50:BR:66:LEU:HA	1.49	0.45
50:BR:70:LEU:CG	50:BR:78:TYR:HB2	2.46	0.45
52:BT:11:VAL:HG23	52:BT:11:VAL:O	2.16	0.45
55:BW:89:ARG:HB2	55:BW:104:LEU:HD13	1.99	0.45
56:BX:22:ARG:O	56:BX:22:ARG:HG2	2.17	0.45
56:BX:9:ARG:O	56:BX:11:GLY:N	2.49	0.45
10:AK:116:GLU:OE1	10:AK:130:PRO:CB	2.65	0.45
10:AK:119:ASP:O	10:AK:121:ILE:HD12	2.17	0.45
42:BJ:86:GLN:CB	42:BJ:148:ASN:HD22	2.29	0.45
2:AA:431:U:C3'	2:AA:431:U:H6	2.18	0.45
24:A0:19:ALA:O	24:A0:22:ARG:CB	2.60	0.45
24:A0:36:THR:HB	24:A0:40:LYS:HB3	1.98	0.45
2:AA:1161:C:HO2'	26:A2:22:VAL:HG11	1.79	0.45
27:A3:35:ASN:C	27:A3:72:LYS:HE3	2.37	0.45
28:A4:19:GLN:CD	28:A4:19:GLN:N	2.69	0.45
28:A4:5:LEU:O	28:A4:56:VAL:HG22	2.17	0.45
2:AA:1058:G:H4'	9:AI:3:ILE:N	2.28	0.45
2:AA:1106:G:O4'	9:AI:27:ASP:CB	2.64	0.45
2:AA:1183:G:O2'	2:AA:1184:G:C8	2.69	0.45
2:AA:123:G:O2'	2:AA:124:G:H5'	2.17	0.45
2:AA:1270:C:O2	2:AA:1325:G:C5	2.69	0.45
2:AA:1324:G:N1	2:AA:1331:A:C6	2.84	0.45
2:AA:1438:U:O4'	2:AA:1517:G:OP1	2.34	0.45
2:AA:1492:G:N2	2:AA:1493:C:N4	2.61	0.45
2:AA:150:C:N4	2:AA:151:C:C4	2.85	0.45
2:AA:1582:C:C4	2:AA:1583:A:C4	3.05	0.45
2:AA:1298:C:N4	2:AA:1643:G:C6	2.85	0.45
2:AA:1684:C:O2'	2:AA:1685:C:C5'	2.65	0.45
2:AA:1695:G:C3'	2:AA:1695:G:N3	2.74	0.45
2:AA:1971:A:O2'	2:AA:1972:A:OP2	2.34	0.45
2:AA:571:A:C4	2:AA:2030:A:N6	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:205:G:C2'	2:AA:206:U:OP2	2.65	0.45
2:AA:2148:G:O6	2:AA:2149:G:C6	2.70	0.45
2:AA:2175:C:OP1	3:AC:219:GLY:O	2.34	0.45
2:AA:2252:G:N2	35:BC:74:C:H42	2.15	0.45
2:AA:2356:C:H4'	27:A3:17:ASN:CB	2.46	0.45
2:AA:2376:A:C8	2:AA:2376:A:OP1	2.69	0.45
2:AA:2447:G:O6	2:AA:2501:C:O2	2.35	0.45
2:AA:2476:A:C3'	2:AA:2476:A:C8	2.99	0.45
2:AA:23:G:O2'	2:AA:24:G:H5'	2.17	0.45
2:AA:2511:U:C2'	2:AA:2512:C:H5'	2.47	0.45
2:AA:2537:U:C4	2:AA:2538:C:N4	2.85	0.45
2:AA:2575:C:C2'	2:AA:2575:C:O2	2.62	0.45
2:AA:2586:C:C2	2:AA:2587:A:N7	2.84	0.45
2:AA:2592:G:C2	2:AA:2603:G:N1	2.85	0.45
2:AA:2626:C:O2'	2:AA:2627:G:C5'	2.63	0.45
2:AA:265:A:N6	2:AA:281:G:H5'	2.32	0.45
2:AA:270(D):C:H1'	2:AA:273(A):G:OP1	2.16	0.45
2:AA:271(B):G:C4'	2:AA:271(C):U:H5'	2.43	0.45
2:AA:273(A):G:H1	2:AA:363(E):U:H3	1.62	0.45
2:AA:273(D):C:H2'	2:AA:273(E):U:C5'	2.47	0.45
2:AA:2761:G:H2'	2:AA:2762:G:H5'	1.99	0.45
2:AA:2785:C:H4'	5:AE:99:VAL:CG2	2.46	0.45
2:AA:281:G:OP1	2:AA:281:G:C8	2.69	0.45
2:AA:2857:G:C6	2:AA:2861:G:N1	2.85	0.45
2:AA:287:C:C2	2:AA:353:G:N1	2.83	0.45
2:AA:445:C:H3'	25:A1:3:ARG:CZ	2.47	0.45
2:AA:547:A:N3	2:AA:547:A:H3'	2.31	0.45
2:AA:541:C:N4	2:AA:552:G:N1	2.43	0.45
2:AA:595:C:O2'	2:AA:596:G:C5'	2.64	0.45
2:AA:693:C:H2'	2:AA:694:U:O5'	2.16	0.45
2:AA:786:C:O2'	2:AA:787:U:O4'	2.35	0.45
2:AA:823:G:N1	2:AA:835:A:C4	2.84	0.45
2:AA:907:U:O2	2:AA:908:C:C6	2.69	0.45
2:AA:969:U:N1	2:AA:970:C:C6	2.85	0.45
2:AA:974:G:HO2'	2:AA:974(A):C:C5'	2.22	0.45
2:AA:981:A:H3'	2:AA:982:C:H6	1.82	0.45
1:AB:21:G:N1	1:AB:62:C:N4	2.28	0.45
3:AC:54:SER:HA	3:AC:57:ASN:HD22	1.80	0.45
2:AA:2174:C:OP2	3:AC:7:TYR:CE2	2.70	0.45
4:AD:144:GLU:HA	4:AD:152:GLN:HB2	1.97	0.45
4:AD:209:ASN:C	4:AD:213:LYS:HD3	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:201:VAL:CG1	5:AE:202:ALA:N	2.79	0.45
5:AE:226:HIS:HB3	5:AE:229:GLN:OE1	2.16	0.45
2:AA:1658:C:P	5:AE:230:GLY:C	2.94	0.45
2:AA:1656:C:OP2	5:AE:233:ARG:HD3	2.17	0.45
6:AF:219:ASN:N	6:AF:222:ASP:OD1	2.50	0.45
6:AF:28:SER:CA	6:AF:31:ILE:HG13	2.46	0.45
8:AH:147:ILE:CG2	8:AH:148:ARG:N	2.71	0.45
9:AI:106:VAL:CG1	9:AI:110:GLU:CB	2.95	0.45
9:AI:40:ALA:O	9:AI:41:ALA:C	2.54	0.45
9:AI:50:GLY:O	9:AI:53:GLN:N	2.50	0.45
9:AI:74:ILE:CD1	9:AI:89:LYS:HG2	2.32	0.45
9:AJ:69:ASN:HB3	9:AJ:72:GLN:CG	2.47	0.45
10:AK:1:MET:CB	10:AK:22:ALA:HA	2.47	0.45
11:AL:105:ILE:HG23	11:AL:128:ILE:CG2	2.28	0.45
15:AP:156:ASN:O	15:AP:157:ALA:HB2	2.17	0.45
16:AQ:32:PRO:CB	16:AQ:49:THR:OG1	2.64	0.45
16:AQ:40:ASN:C	16:AQ:42:HIS:N	2.69	0.45
16:AQ:98:GLU:CG	16:AQ:99:GLU:H	2.29	0.45
18:AS:83:LYS:O	18:AS:84:ARG:NH2	2.49	0.45
20:AU:18:GLU:CB	20:AU:21:LYS:HD3	2.46	0.45
15:AP:32:LYS:HE3	21:AV:172:LEU:HD13	1.97	0.45
21:AV:70:GLN:HG2	21:AV:72:ASP:CG	2.37	0.45
21:AV:6:LYS:N	21:AV:7:PRO:CD	2.79	0.45
21:AV:34:LEU:CD2	21:AV:83:PHE:CZ	3.00	0.45
23:AX:20:LYS:HD3	23:AX:23:LEU:HD12	1.98	0.45
34:BA:1044:A:O2'	34:BA:1045:C:H5'	2.16	0.45
34:BA:115:G:C1'	34:BA:116:A:N7	2.79	0.45
34:BA:1117:G:C2	34:BA:1184:G:C2	3.05	0.45
34:BA:1228:C:OP2	48:BP:111:LYS:NZ	2.28	0.45
34:BA:1241:G:N1	34:BA:1242:C:C4	2.85	0.45
34:BA:1259:C:C5	34:BA:1260:C:C6	3.04	0.45
34:BA:1262:C:C2	34:BA:1263:C:C5	3.05	0.45
34:BA:971:G:C8	34:BA:1365:G:H4'	2.52	0.45
34:BA:1349:A:C5	34:BA:1374:A:C8	3.04	0.45
34:BA:1394:A:C8	34:BA:1394:A:O5'	2.66	0.45
34:BA:1472:U:C2'	34:BA:1473:A:C5'	2.93	0.45
34:BA:1419:G:C6	34:BA:1482:G:N1	2.84	0.45
34:BA:261:U:H5	55:BW:79:ARG:CZ	2.28	0.45
34:BA:306:G:C5	34:BA:307:C:C5	3.05	0.45
34:BA:429:U:O2'	34:BA:430:A:H5''	2.17	0.45
34:BA:502:G:C2'	34:BA:503:C:H5'	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:545:C:HO2'	34:BA:546:G:H5'	1.71	0.45
34:BA:722:A:N6	34:BA:733:A:C2	2.79	0.45
34:BA:754:C:OP2	34:BA:755:G:N7	2.49	0.45
34:BA:587:G:C4	34:BA:755:G:C2	3.04	0.45
34:BA:80:G:H2'	34:BA:81:U:C5'	2.45	0.45
34:BA:889:A:C4'	34:BA:890:G:OP1	2.64	0.45
34:BA:899:C:O5'	34:BA:899:C:H6	1.99	0.45
34:BA:919:A:H2'	34:BA:920:U:H6	1.82	0.45
34:BA:921:U:C2'	34:BA:922:G:H5'	2.46	0.45
34:BA:980:C:H3'	34:BA:981:U:C6	2.51	0.45
34:BA:981:U:C6	34:BA:981:U:H3'	2.52	0.45
35:BB:64:A:N3	35:BB:65:G:C8	2.85	0.45
35:BB:49:C:C4	35:BB:66:A:N6	2.85	0.45
35:BB:6:U:O4	35:BB:7:U:C5	2.70	0.45
35:BC:52:U:O2	35:BC:62:A:N1	2.50	0.45
35:BC:9:A:H62	35:BC:22:G:H8	1.63	0.45
37:BE:144:ARG:HD3	37:BE:148:TYR:OH	2.15	0.45
37:BE:97:TRP:CD1	37:BE:101:MET:HE1	2.51	0.45
38:BF:47:LEU:N	38:BF:47:LEU:CD2	2.76	0.45
39:BG:58:LEU:C	39:BG:58:LEU:HD13	2.36	0.45
39:BG:66:ARG:O	39:BG:68:TYR:N	2.50	0.45
41:BI:64:GLN:O	41:BI:65:VAL:HG13	2.16	0.45
41:BI:76:ALA:HA	41:BI:79:LEU:HD12	1.98	0.45
42:BJ:44:TYR:O	42:BJ:46:ALA:N	2.50	0.45
44:BL:99:LEU:O	44:BL:100:GLY:O	2.34	0.45
45:BM:19:SER:O	45:BM:23:ILE:HD13	2.17	0.45
45:BM:60:ARG:CB	45:BM:60:ARG:HH11	2.26	0.45
46:BN:110:ASP:HA	53:BU:88:LYS:NZ	2.15	0.45
46:BN:18:ARG:HG2	46:BN:18:ARG:NH1	2.29	0.45
46:BN:48:ILE:C	46:BN:50:TYR:H	2.20	0.45
47:BO:117:ARG:HB2	47:BO:117:ARG:NH1	2.32	0.45
47:BO:56:ALA:HB3	47:BO:100:ILE:HD12	1.97	0.45
48:BP:108:ARG:O	48:BP:109:THR:C	2.55	0.45
34:BA:761:G:C5'	52:BT:102:GLY:HA3	2.29	0.45
52:BT:84:LEU:C	52:BT:86:GLU:N	2.68	0.45
52:BT:84:LEU:O	52:BT:87:LYS:N	2.50	0.45
55:BW:64:ASP:HA	55:BW:67:ALA:HB2	1.97	0.45
35:BB:26:G:H22	35:BB:27:C:H1'	1.77	0.45
2:AA:1285:G:O5'	2:AA:1285:G:C8	2.69	0.45
2:AA:2898:U:C2'	2:AA:2898:U:O2	2.64	0.45
34:BA:336:C:H2'	34:BA:337:C:H6	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:A0:97:VAL:CA	24:A0:114:VAL:HG13	2.42	0.45
24:A0:90:ARG:HH12	24:A0:117:VAL:HG21	1.81	0.45
24:A0:63:ARG:NH2	24:A0:77:ARG:CG	2.71	0.45
25:A1:57:PHE:O	25:A1:60:LEU:HB2	2.17	0.45
25:A1:70:ARG:O	25:A1:71:LEU:C	2.55	0.45
26:A2:41:GLY:N	26:A2:54:TYR:CD1	2.85	0.45
27:A3:47:ALA:HB2	27:A3:75:GLY:CA	2.47	0.45
29:A5:18:MET:CA	29:A5:21:SER:HB3	2.42	0.45
30:A6:31:THR:O	30:A6:32:GLN:O	2.34	0.45
30:A6:16:ALA:HB2	30:A6:42:PRO:HD3	1.97	0.45
2:AA:2393:A:H5'	32:A8:13:ARG:HH21	1.81	0.45
30:A6:26:LYS:HZ1	32:A8:36:LYS:H	1.65	0.45
32:A8:5:LYS:HD2	32:A8:7:HIS:CE1	2.52	0.45
2:AA:1047:G:C6	2:AA:1110:G:N7	2.84	0.45
2:AA:1159:U:C2'	2:AA:1160:G:O5'	2.64	0.45
2:AA:1170:G:N2	2:AA:1180:C:C4	2.85	0.45
2:AA:1179:C:C2'	2:AA:1180:C:C6	3.00	0.45
2:AA:1183:G:C3'	2:AA:1183:G:P	2.99	0.45
2:AA:1297:C:O2'	2:AA:1302:A:N6	2.50	0.45
2:AA:1342:A:C4	2:AA:1345:C:C4	3.05	0.45
2:AA:1353:A:H61	2:AA:1354:A:N6	2.14	0.45
2:AA:1447:G:H1'	2:AA:545(A):A:H1'	1.99	0.45
2:AA:1525:G:O2'	2:AA:1526:G:O5'	2.35	0.45
2:AA:1394:U:C4'	2:AA:1603:A:C5'	2.93	0.45
2:AA:1605:C:C6	2:AA:1606:G:C8	3.03	0.45
2:AA:1652:A:H62	2:AA:1653:G:H21	1.65	0.45
2:AA:1658:C:P	5:AE:230:GLY:HA2	2.57	0.45
2:AA:1754:C:C4	2:AA:1755:A:C6	3.05	0.45
2:AA:1779:U:C1'	2:AA:1783:A:H62	2.29	0.45
2:AA:1779:U:H1'	2:AA:1783:A:N6	2.31	0.45
2:AA:1843:C:H2'	2:AA:1844:C:C5	2.51	0.45
2:AA:1794:U:C4'	2:AA:1900:A:C5	2.99	0.45
2:AA:1936:A:C4	2:AA:1945:G:N7	2.84	0.45
2:AA:1975:G:C4	2:AA:1976:U:C6	3.05	0.45
2:AA:2021:C:H5	25:A1:25:TRP:CZ2	2.33	0.45
2:AA:2040:C:O2	2:AA:2041:U:N1	2.50	0.45
2:AA:2051:A:O2'	2:AA:2052:G:P	2.75	0.45
2:AA:2113:U:O2'	2:AA:2114:A:OP2	2.27	0.45
2:AA:2123:G:HO2'	3:AC:172:HIS:CD2	2.34	0.45
2:AA:2234:G:H2'	2:AA:2235:G:O4'	2.16	0.45
2:AA:2329:G:N3	2:AA:2330:G:C8	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2408:U:O2'	2:AA:2409:G:C5'	2.64	0.45
2:AA:2417:C:C2'	2:AA:2418:A:C5'	2.95	0.45
2:AA:246:C:C2'	2:AA:246:C:O2	2.64	0.45
2:AA:2478:A:C2	2:AA:2529:G:C4	3.04	0.45
2:AA:2458:G:C8	2:AA:2490:G:C5	3.04	0.45
2:AA:2517:C:C2'	2:AA:2518:A:O5'	2.64	0.45
2:AA:2543:G:C6	2:AA:2544:G:C6	3.05	0.45
2:AA:2570:G:H3'	2:AA:2571:C:C6	2.52	0.45
2:AA:2617:C:C2'	2:AA:2618:G:H5'	2.46	0.45
2:AA:2653:U:C2'	2:AA:2654:A:N7	2.78	0.45
2:AA:2675:A:HO2'	2:AA:2676:C:H5'	1.78	0.45
2:AA:2677:G:N3	2:AA:2678:C:C6	2.85	0.45
2:AA:2718:G:C2'	2:AA:2719:G:C8	2.93	0.45
2:AA:2721:A:C2'	2:AA:2722:G:C8	2.99	0.45
2:AA:2726:U:H3'	2:AA:2727:G:C8	2.51	0.45
2:AA:297:C:H3'	2:AA:298:G:H8	1.75	0.45
2:AA:311:A:C5'	2:AA:312:G:N7	2.79	0.45
2:AA:315:G:H2'	2:AA:316:C:C1'	2.46	0.45
2:AA:358:U:C3'	2:AA:359:A:C5'	2.92	0.45
2:AA:41:C:O2'	2:AA:43:G:C5'	2.65	0.45
2:AA:476:G:O4'	2:AA:505:A:C2	2.64	0.45
2:AA:523:C:HO2'	2:AA:524:U:H5'	1.79	0.45
2:AA:530:G:O2'	2:AA:531:C:O3'	2.30	0.45
2:AA:574:C:C2'	2:AA:575:A:OP2	2.64	0.45
2:AA:611:C:N3	2:AA:617:G:C6	2.85	0.45
2:AA:652:C:H3'	2:AA:653:A:O3'	2.16	0.45
2:AA:680:G:C5	2:AA:798:G:C2	3.05	0.45
2:AA:465:G:N2	2:AA:683:C:HO2'	2.11	0.45
2:AA:836:G:O6	2:AA:943:U:O4	2.35	0.45
2:AA:997:G:C2	2:AA:998:C:C5	3.05	0.45
1:AB:43:C:OP2	1:AB:43:C:C6	2.70	0.45
1:AB:58:A:H2'	7:AG:140:ARG:NH1	2.31	0.45
2:AA:2124:G:OP1	3:AC:132:GLY:N	2.50	0.45
4:AD:117:SER:HB3	4:AD:128:ALA:C	2.34	0.45
4:AD:73:ILE:CG2	4:AD:96:ALA:HB3	2.47	0.45
5:AE:222:ARG:NH2	5:AE:234:ARG:CA	2.80	0.45
5:AE:207:GLY:HA2	5:AE:257:GLY:C	2.37	0.45
5:AE:271:ILE:HG23	5:AE:272:GLY:H	1.81	0.45
7:AG:36:ASN:O	7:AG:37:ALA:C	2.55	0.45
8:AH:51:VAL:HG22	8:AH:68:ARG:HG3	1.98	0.45
8:AH:67:THR:O	8:AH:71:LEU:CD1	2.62	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:23:LYS:O	9:AI:27:ASP:OD1	2.35	0.45
9:AJ:66:PHE:CD2	9:AJ:73:VAL:HB	2.52	0.45
14:AO:62:ALA:HB3	14:AO:105:TYR:HB2	1.97	0.45
14:AO:61:ALA:CB	14:AO:107:LYS:CE	2.94	0.45
14:AO:65:ASP:HB3	14:AO:109:LEU:CB	2.45	0.45
14:AO:67:ARG:HH11	14:AO:111:ALA:CB	2.24	0.45
15:AP:117:GLY:O	15:AP:118:ALA:CB	2.61	0.45
15:AP:22:GLY:O	15:AP:23:ILE:CD1	2.65	0.45
15:AP:32:LYS:HE3	21:AV:172:LEU:HD22	1.99	0.45
15:AP:65:ARG:CZ	15:AP:85:ILE:CB	2.84	0.45
16:AQ:38:LYS:NZ	16:AQ:114:LYS:HB2	2.32	0.45
18:AS:23:LEU:HD11	29:A5:26:THR:C	2.36	0.45
18:AS:22:ASP:HA	18:AS:25:ARG:HD2	1.99	0.45
2:AA:1614:A:H61	18:AS:88:ARG:H	1.57	0.45
18:AS:84:ARG:HB3	18:AS:96:ILE:HG13	1.97	0.45
22:AW:15:GLU:O	22:AW:16:ARG:C	2.55	0.45
22:AW:45:ARG:HH21	22:AW:49:LEU:HD23	1.78	0.45
23:AX:24:LYS:O	23:AX:27:GLY:HA2	2.17	0.45
1:AB:83:G:C5'	23:AX:52:HIS:HD2	2.29	0.45
36:B1:46:A:H5''	36:B1:47:U:H5	1.76	0.45
34:BA:30(D):A:H3'	34:BA:1031:G:O4'	2.17	0.45
34:BA:1065:U:C2'	34:BA:1066:C:OP2	2.64	0.45
34:BA:1126:U:O2'	34:BA:1127:G:C5'	2.65	0.45
34:BA:1133:G:C4	34:BA:1134:G:C8	3.05	0.45
34:BA:1226:C:C4'	34:BA:1227:A:OP1	2.65	0.45
34:BA:1287:A:H2'	34:BA:1288:A:N7	2.26	0.45
34:BA:12:U:O2	34:BA:22:G:N2	2.41	0.45
34:BA:132:C:C2'	34:BA:133:U:C6	2.99	0.45
34:BA:934:C:C4	34:BA:1344:C:C4	3.05	0.45
34:BA:133:U:O3'	34:BA:134:A:H8	1.99	0.45
34:BA:1368:G:C5	34:BA:1369:C:C5	3.04	0.45
34:BA:1507:A:N1	34:BA:1528:U:C4	2.83	0.45
34:BA:197:A:N6	34:BA:221:C:H5''	2.28	0.45
34:BA:226:G:N2	34:BA:227:G:C4	2.84	0.45
34:BA:976:G:C5	34:BA:361(A):C:C4	3.05	0.45
34:BA:361(A):C:H2'	34:BA:1362:C:H5''	1.99	0.45
34:BA:447:G:O2'	34:BA:448:A:O5'	2.28	0.45
34:BA:451:A:C2	34:BA:480:U:C4	3.05	0.45
34:BA:501:C:C6	34:BA:501:C:H3'	2.52	0.45
34:BA:602:A:C6	34:BA:603:U:N3	2.84	0.45
34:BA:668:G:C4	34:BA:669:U:C5	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:751:U:OP1	50:BR:18:PHE:CE1	2.69	0.45
34:BA:768:A:C3'	34:BA:768:A:C8	3.00	0.45
34:BA:932:C:H5'	42:BJ:3:ARG:HB3	1.98	0.45
34:BA:934:C:C5	34:BA:1344:C:H3'	2.51	0.45
35:BB:48:C:N4	35:BB:60:C:C2	2.84	0.45
35:BC:15:G:H1	35:BC:21:A:H2	1.64	0.45
35:BC:43:G:N3	35:BC:44:A:C8	2.85	0.45
35:BC:51:G:C2'	35:BC:52:U:O5'	2.65	0.45
35:BC:54:U:O4	35:BC:55:U:N3	2.49	0.45
27:A3:7:VAL:HG22	35:BC:64:A:OP2	2.17	0.45
37:BE:207:ALA:O	37:BE:210:SER:N	2.50	0.45
37:BE:97:TRP:CH2	37:BE:173:ALA:CA	3.00	0.45
38:BF:10:PHE:HE1	38:BF:178:LEU:CD2	2.23	0.45
38:BF:27:LYS:C	38:BF:30:ARG:HH12	2.19	0.45
38:BF:33:LEU:HD11	49:BQ:53:LEU:HA	1.98	0.45
39:BG:13:ARG:HH22	39:BG:36:ARG:HD3	1.82	0.45
39:BG:83:SER:HA	39:BG:89:THR:CB	2.46	0.45
41:BI:1:MET:SD	41:BI:67:MET:C	2.95	0.45
42:BJ:15:ASP:OD1	42:BJ:17:VAL:CB	2.64	0.45
43:BK:10:LEU:C	43:BK:13:ILE:HB	2.26	0.45
43:BK:38:ILE:H	43:BK:38:ILE:HD13	1.82	0.45
44:BL:124:GLN:O	44:BL:124:GLN:HG3	2.16	0.45
44:BL:62:TYR:CA	44:BL:63:ILE:HD12	2.47	0.45
44:BL:45:ALA:O	44:BL:78:LYS:HG3	2.16	0.45
45:BM:51:ARG:N	45:BM:59:SER:HB3	2.31	0.45
46:BN:45:GLY:C	46:BN:55:LYS:HG2	2.37	0.45
47:BO:117:ARG:CB	47:BO:117:ARG:NH1	2.79	0.45
47:BO:27:LEU:CD1	47:BO:64:TYR:CE1	3.00	0.45
48:BP:22:ILE:CG2	48:BP:66:LEU:HD12	2.47	0.45
49:BQ:42:ILE:O	49:BQ:43:CYS:C	2.54	0.45
34:BA:255:G:OP1	52:BT:69:LYS:NZ	2.50	0.45
53:BU:63:GLN:CA	53:BU:66:LEU:HG	2.46	0.45
54:BV:11:VAL:HG21	54:BV:41:VAL:HG13	1.98	0.45
54:BV:66:MET:O	54:BV:74:PHE:HZ	1.99	0.45
10:AK:76:THR:CG2	10:AK:142:LYS:HE2	2.47	0.45
35:BB:1:G:N1	35:BB:73:A:C6	2.82	0.45
6:AF:61:PHE:O	6:AF:65:ARG:NE	2.50	0.45
2:AA:258:G:C8	2:AA:258:G:O5'	2.66	0.45
3:AC:141:LYS:C	3:AC:141:LYS:HD3	2.37	0.45
7:AG:91:ALA:O	7:AG:92:GLU:OE2	2.34	0.45
24:A0:77:ARG:CG	24:A0:77:ARG:NH1	2.59	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:A0:63:ARG:NH1	24:A0:80:PHE:CD2	2.85	0.45
25:A1:42:ALA:O	25:A1:46:GLU:CG	2.60	0.45
25:A1:87:ASN:HB3	25:A1:88:ILE:CD1	2.46	0.45
26:A2:49:GLU:H	26:A2:54:TYR:HH	1.56	0.45
26:A2:74:TYR:HD1	26:A2:86:HIS:HB2	1.81	0.45
27:A3:33:ALA:HB2	27:A3:65:GLY:CA	2.43	0.45
28:A4:4:ASP:OD1	28:A4:11:PRO:CG	2.63	0.45
2:AA:1366:A:P	28:A4:3:LYS:NZ	2.90	0.45
28:A4:40:HIS:CB	28:A4:41:PRO:CD	2.85	0.45
28:A4:57:ASP:CA	28:A4:61:LYS:HE2	2.46	0.45
30:A6:35:LEU:O	30:A6:36:GLU:CG	2.64	0.45
30:A6:50:PHE:N	30:A6:50:PHE:HD1	2.15	0.45
31:A7:33:ARG:HB3	31:A7:37:LYS:HD2	1.98	0.45
32:A8:16:ILE:HA	32:A8:21:LYS:O	2.17	0.45
2:AA:1023:U:OP2	2:AA:1025:G:C2	2.69	0.45
2:AA:1080:C:O3'	11:AL:126:LYS:HD3	2.17	0.45
2:AA:1083:U:O2	9:AI:37:VAL:HG13	2.17	0.45
2:AA:1120:G:O2'	2:AA:1121:C:H5'	2.16	0.45
2:AA:1152:C:H4'	25:A1:80:ILE:CD1	2.47	0.45
2:AA:1173:G:N2	2:AA:1175:U:H3'	2.31	0.45
2:AA:1334:G:C2'	2:AA:1335:U:O5'	2.65	0.45
2:AA:13:A:N1	2:AA:525:U:C2'	2.66	0.45
2:AA:1406:U:C2	2:AA:1407:C:C5	3.04	0.45
2:AA:1475:G:C3'	2:AA:1475:G:C4	2.97	0.45
2:AA:1489:U:H5''	2:AA:1490:A:OP2	2.16	0.45
2:AA:1570:A:N3	2:AA:1571:A:C8	2.85	0.45
2:AA:1589:C:O2'	2:AA:1590:U:H5'	2.16	0.45
2:AA:1659:U:HO2'	2:AA:1660:C:H5'	1.80	0.45
2:AA:1742:C:H2'	2:AA:1743:G:N9	2.30	0.45
2:AA:1770:G:C6	2:AA:1771:C:C4	3.05	0.45
2:AA:1858:G:N1	2:AA:1885:A:N7	2.65	0.45
2:AA:1919:A:C2'	2:AA:1920:C:H5'	2.47	0.45
2:AA:1826:G:O2'	2:AA:1971:A:O5'	2.35	0.45
2:AA:2026:C:C2'	2:AA:2026:C:O2	2.65	0.45
2:AA:2118:U:H2'	2:AA:2119:A:C5'	2.47	0.45
2:AA:1801:G:C6	2:AA:2207:C:H4'	2.50	0.45
2:AA:2256:G:H5'	27:A3:5:LYS:CG	2.34	0.45
2:AA:965:C:C4'	2:AA:2273:A:N3	2.78	0.45
2:AA:2356:C:O2'	2:AA:2357:U:H5'	2.17	0.45
2:AA:2373:G:C6	2:AA:2374:C:N4	2.84	0.45
2:AA:2419:U:P	32:A8:41:ILE:HD12	2.56	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:825:C:H4'	2:AA:2428:G:N7	2.31	0.45
2:AA:2432:A:N6	28:A4:31:ILE:H	2.15	0.45
2:AA:2465:C:HO2'	2:AA:2466:C:C5'	2.29	0.45
2:AA:2491:U:H5'	2:AA:2570:G:H4'	1.99	0.45
2:AA:2554:U:C4	2:AA:2555:U:C4	3.05	0.45
2:AA:2602:A:OP1	35:BC:74:C:O3'	2.35	0.45
2:AA:2605:U:H2'	2:AA:2606:C:H5'	1.98	0.45
2:AA:1782:C:O2	2:AA:2609:U:C6	2.70	0.45
2:AA:2626:C:O2	2:AA:2627:G:C8	2.69	0.45
2:AA:262:A:O2'	2:AA:263:C:H5'	2.16	0.45
2:AA:2670:A:N6	2:AA:2671:A:N6	2.65	0.45
2:AA:2721:A:C2'	2:AA:2722:G:H8	2.29	0.45
2:AA:273(B):C:O5'	2:AA:273(B):C:H6	2.00	0.45
2:AA:274:G:P	2:AA:274:G:H21	2.40	0.45
2:AA:2758:A:N3	2:AA:2758:A:C2'	2.75	0.45
2:AA:2824:C:C2	2:AA:2825:C:O4'	2.70	0.45
2:AA:2623:G:C5'	2:AA:2826:A:H1'	2.46	0.45
2:AA:2841:C:C2	2:AA:2842:G:C5	3.05	0.45
2:AA:285:C:C2	2:AA:286:C:N4	2.85	0.45
2:AA:2836:U:C2	2:AA:2883:A:C6	3.05	0.45
2:AA:300:A:N1	2:AA:334:C:O4'	2.50	0.45
2:AA:303:U:N3	2:AA:304:G:N7	2.64	0.45
2:AA:325:G:H2'	2:AA:326:G:O5'	2.17	0.45
2:AA:283:A:H2	2:AA:360:G:C2	2.35	0.45
2:AA:511:U:O4	2:AA:512:G:N3	2.49	0.45
2:AA:619:G:O6	2:AA:620:G:N2	2.50	0.45
2:AA:621:A:N6	2:AA:622:G:N3	2.65	0.45
2:AA:715:G:C3'	2:AA:715:G:C8	2.99	0.45
2:AA:737:C:C2	2:AA:759:G:N2	2.85	0.45
2:AA:764:A:H5''	2:AA:765:G:H5'	1.98	0.45
2:AA:880:G:H2'	2:AA:881:G:O4'	2.16	0.45
2:AA:911:A:N1	15:AP:17:ARG:NH1	2.64	0.45
2:AA:929:G:H8	2:AA:929:G:P	2.39	0.45
1:AB:44:G:C2	1:AB:48:A:H1'	2.50	0.45
3:AC:103:ILE:HB	3:AC:127:LEU:HD13	1.97	0.45
3:AC:126:LYS:O	3:AC:130:ILE:HD13	2.15	0.45
3:AC:91:ALA:C	3:AC:92:ASP:OD1	2.55	0.45
5:AE:102:ASP:HA	5:AE:104:PHE:CZ	2.50	0.45
5:AE:211:GLN:OE1	5:AE:215:LYS:N	2.50	0.45
5:AE:214:VAL:O	5:AE:217:TRP:C	2.55	0.45
2:AA:449:A:OP1	6:AF:84:VAL:HG12	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:100:ASP:C	7:AG:102:GLY:N	2.69	0.45
9:AI:106:VAL:HG12	9:AI:111:ALA:N	2.31	0.45
9:AI:91:LEU:O	9:AI:92:VAL:C	2.54	0.45
12:AM:5:GLU:CA	12:AM:109:TYR:CE2	2.75	0.45
12:AM:45:VAL:HG13	12:AM:131:THR:OG1	2.17	0.45
12:AM:53:ILE:HG22	12:AM:135:ILE:HD11	1.93	0.45
2:AA:1022:G:O5'	12:AM:52:GLN:CD	2.55	0.45
14:AO:126:SER:N	14:AO:129:ALA:HB3	2.32	0.45
14:AO:133:VAL:O	14:AO:134:GLU:C	2.53	0.45
16:AQ:90:LEU:HD23	16:AQ:93:GLN:HE21	1.82	0.45
17:AR:23:HIS:C	17:AR:23:HIS:ND1	2.70	0.45
19:AT:18:MET:CB	19:AT:24:LEU:HA	2.46	0.45
2:AA:72:U:H5'	19:AT:2:TRP:CZ2	2.51	0.45
19:AT:36:GLU:HG2	19:AT:36:GLU:H	1.48	0.45
21:AV:98:VAL:HG23	21:AV:121:GLN:HE22	1.82	0.45
21:AV:46:GLN:HG3	21:AV:50:GLY:CA	2.47	0.45
22:AW:60:GLN:CD	22:AW:61:GLY:N	2.70	0.45
23:AX:12:PRO:HG3	23:AX:20:LYS:HZ1	1.81	0.45
34:BA:1007:C:O2	34:BA:1008:C:C6	2.70	0.45
34:BA:1076:C:C4	34:BA:1082:G:C2	3.05	0.45
34:BA:1104:G:C2'	34:BA:1105:A:C5'	2.95	0.45
34:BA:1110:A:N7	34:BA:1111:A:N7	2.65	0.45
34:BA:1149:C:O5'	34:BA:1149:C:H6	2.00	0.45
34:BA:1188:A:H2'	34:BA:1189:C:O4'	2.17	0.45
34:BA:1237:C:O4'	34:BA:1334:G:N2	2.49	0.45
34:BA:1253:G:N2	34:BA:1254:C:H1'	2.32	0.45
34:BA:1298:C:H1'	34:BA:1299:A:N1	2.32	0.45
34:BA:1346:A:C2	42:BJ:10:ARG:HD3	2.51	0.45
34:BA:1465:C:O2	34:BA:1465:C:C2'	2.63	0.45
34:BA:1499:A:C6	34:BA:1500:A:N7	2.85	0.45
34:BA:926:G:C2	34:BA:1505:G:C4	3.05	0.45
34:BA:1529:G:C4'	34:BA:1530:G:OP2	2.65	0.45
34:BA:1532:U:O2'	34:BA:1533:C:C5	2.68	0.45
34:BA:1534:A:N3	34:BA:1534:A:H5'	2.31	0.45
34:BA:156:G:H1	34:BA:165:C:H42	1.64	0.45
34:BA:237:C:OP1	52:BT:40:LYS:HD2	2.16	0.45
34:BA:30(D):A:H2'	34:BA:1031:G:O4'	2.17	0.45
34:BA:33:A:C6	34:BA:34:C:C4	3.05	0.45
34:BA:360:A:N1	34:BA:361:G:N3	2.65	0.45
34:BA:35:G:C2'	34:BA:36:C:H5'	2.47	0.45
34:BA:422:C:H5'	34:BA:423:G:C4	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:579:G:N1	34:BA:763:G:N1	2.64	0.45
34:BA:593:G:C6	34:BA:594:G:C5	3.05	0.45
34:BA:675:A:C2	34:BA:716:A:H2	2.35	0.45
34:BA:676:A:C6	34:BA:677:U:O4	2.70	0.45
34:BA:710:G:C2'	34:BA:711:G:C5'	2.94	0.45
34:BA:731:G:OP1	34:BA:766:A:H1'	2.16	0.45
34:BA:755:G:C2'	34:BA:756:C:H6	2.30	0.45
34:BA:947:G:O3'	48:BP:109:THR:CB	2.64	0.45
34:BA:953:G:C2'	34:BA:954:G:H5'	2.46	0.45
35:BC:14:A:C2	35:BC:22:G:C2	3.05	0.45
35:BC:55:U:H3	35:BC:58:A:P	2.33	0.45
35:BC:75:C:C3'	35:BC:76:A:O3'	2.64	0.45
37:BE:152:PHE:O	37:BE:153:ARG:C	2.55	0.45
37:BE:171:ALA:O	37:BE:174:VAL:CB	2.65	0.45
37:BE:197:VAL:HG12	37:BE:198:ASP:N	2.32	0.45
37:BE:19:His:NE2	37:BE:206:ASP:HB2	2.31	0.45
37:BE:14:GLY:CA	37:BE:209:ARG:CZ	2.91	0.45
38:BF:88:ARG:CD	38:BF:101:LEU:HB2	2.46	0.45
39:BG:18:LYS:HE3	39:BG:33:MET:HG3	1.98	0.45
40:BH:107:ARG:CB	40:BH:107:ARG:NH1	2.80	0.45
40:BH:117:ASP:O	40:BH:118:ILE:HG12	2.17	0.45
40:BH:47:LYS:CD	40:BH:47:LYS:N	2.62	0.45
42:BJ:48:LYS:O	42:BJ:51:GLN:HB2	2.17	0.45
43:BK:70:GLN:HA	43:BK:70:GLN:NE2	2.31	0.45
43:BK:83:ILE:HG12	43:BK:84:ARG:N	2.32	0.45
45:BM:29:ARG:O	45:BM:30:SER:HB3	2.17	0.45
46:BN:102:GLY:O	46:BN:105:VAL:CG2	2.64	0.45
48:BP:33:ALA:HA	48:BP:59:TYR:HE2	1.82	0.45
48:BP:81:LEU:HD13	48:BP:81:LEU:N	2.17	0.45
48:BP:91:ARG:O	48:BP:96:LEU:CD2	2.65	0.45
50:BR:49:ASP:OD1	50:BR:52:SER:CB	2.65	0.45
50:BR:55:GLY:O	50:BR:58:MET:HG3	2.17	0.45
50:BR:62:GLN:O	50:BR:66:LEU:CD2	2.58	0.45
51:BS:57:ARG:O	51:BS:58:TYR:C	2.53	0.45
52:BT:52:LYS:O	52:BT:53:LEU:O	2.35	0.45
34:BA:836:G:P	53:BU:61:LYS:NZ	2.90	0.45
54:BV:11:VAL:HA	54:BV:38:SER:CB	2.47	0.45
54:BV:22:LEU:CD2	54:BV:25:LYS:HD3	2.42	0.45
55:BW:13:LEU:O	55:BW:16:HIS:HB2	2.16	0.45
2:AA:1508:A:C6	2:AA:1510:A:C2	3.05	0.45
37:BE:131:PRO:O	37:BE:135:GLN:NE2	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2367:G:C4	2:AA:2368:C:C5	3.05	0.45
2:AA:2881:C:P	24:A0:90:ARG:NH1	2.90	0.45
2:AA:2839:G:HO2'	24:A0:92:GLY:HA3	1.81	0.45
25:A1:12:ARG:O	25:A1:13:ARG:C	2.53	0.45
25:A1:8:ILE:O	25:A1:11:ARG:CG	2.59	0.45
26:A2:67:LYS:HZ1	26:A2:94:LYS:CD	2.28	0.45
26:A2:90:PHE:O	26:A2:91:THR:CG2	2.65	0.45
27:A3:78:PHE:C	27:A3:79:ILE:HG13	2.33	0.45
28:A4:23:GLU:C	28:A4:25:MET:N	2.70	0.45
2:AA:2432:A:H62	28:A4:31:ILE:H	1.64	0.45
29:A5:9:LYS:C	29:A5:10:LYS:O	2.50	0.45
30:A6:52:GLU:O	30:A6:53:LYS:C	2.56	0.45
32:A8:23:MET:HB2	32:A8:23:MET:HE3	1.39	0.45
32:A8:34:THR:C	32:A8:36:LYS:N	2.57	0.45
32:A8:38:GLY:HA2	32:A8:41:ILE:HG13	1.98	0.45
33:A9:11:CYS:CB	33:A9:32:HIS:CE1	2.78	0.45
2:AA:1011:G:C6	2:AA:1150:C:N3	2.85	0.45
2:AA:1011:G:OP2	25:A1:75:ASN:OD1	2.35	0.45
2:AA:1053:C:C2	2:AA:1106:G:N2	2.77	0.45
2:AA:1063:G:N7	2:AA:1070:A:OP1	2.50	0.45
2:AA:108:U:HO2'	2:AA:109:G:P	2.39	0.45
2:AA:142(A):A:N6	2:AA:1143:A:C5	2.85	0.45
2:AA:1233:C:C2'	2:AA:1234:U:H5'	2.47	0.45
2:AA:1246:A:C6	2:AA:1247:A:C2	3.05	0.45
2:AA:1269:A:H2'	2:AA:1325:G:O6	2.17	0.45
2:AA:1270:C:C5'	2:AA:1271:G:H5''	2.43	0.45
2:AA:1293:C:C2	2:AA:1294:U:C6	3.05	0.45
2:AA:1295:C:C2	2:AA:1296:G:C8	3.05	0.45
2:AA:1341:U:O2'	19:AT:53:ASN:CG	2.54	0.45
2:AA:1379:A:C6	2:AA:1379:A:OP1	2.70	0.45
2:AA:142(A):A:C2'	2:AA:1143:A:H5'	2.46	0.45
2:AA:14:A:C2	2:AA:2625:G:O2'	2.70	0.45
2:AA:14:A:H2'	2:AA:15:G:O5'	2.16	0.45
2:AA:1515:C:O2'	2:AA:1516:U:OP1	2.23	0.45
2:AA:1538:G:C5	2:AA:1539:G:C4	3.05	0.45
2:AA:1352:U:HO2'	2:AA:1570:A:H2'	1.82	0.45
2:AA:1651:G:N2	2:AA:2006:C:C2	2.73	0.45
2:AA:1652:A:N6	2:AA:1653:G:H21	2.14	0.45
2:AA:1663:C:C4	2:AA:1992:G:C8	3.05	0.45
2:AA:1695:G:C2'	2:AA:1696:G:O5'	2.62	0.45
2:AA:1707:G:O4'	2:AA:1756:G:C2'	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1780:A:OP2	2:AA:1782:C:O5'	2.35	0.45
2:AA:1778:U:H2'	2:AA:1784:A:C2	2.51	0.45
2:AA:1802:A:C5'	2:AA:1803:A:OP2	2.64	0.45
2:AA:182:A:O2'	2:AA:183:C:O5'	2.35	0.45
2:AA:1840:G:H2'	2:AA:1841:U:C5'	2.47	0.45
2:AA:1853:A:C4	2:AA:1854:A:C8	3.05	0.45
2:AA:1859:A:H8	2:AA:1859:A:H3'	1.81	0.45
2:AA:1893:C:C6	2:AA:1894:C:C5	3.05	0.45
2:AA:1904:G:C2'	2:AA:1905:C:C5'	2.95	0.45
2:AA:2000:G:C2	2:AA:2001:A:C8	3.05	0.45
2:AA:2009:G:H1'	24:A0:106:GLY:O	2.17	0.45
2:AA:2083:G:C4	2:AA:2084:C:C5	3.05	0.45
2:AA:2136:C:C6	2:AA:2136:C:O5'	2.66	0.45
2:AA:2143:C:H42	2:AA:2147:G:H1	1.65	0.45
2:AA:2177:C:H5''	3:AC:46:LYS:CD	2.45	0.45
2:AA:2094:G:N2	2:AA:2196:C:C2	2.84	0.45
2:AA:2241:A:O2'	2:AA:2242:G:C5'	2.65	0.45
2:AA:2262:U:H2'	2:AA:2263:C:H5'	1.96	0.45
2:AA:2270:G:C6	2:AA:2271:G:C2	3.04	0.45
2:AA:2310:A:C5	7:AG:55:LYS:HD3	2.52	0.45
2:AA:2328:A:C5	2:AA:2329:G:N7	2.85	0.45
2:AA:2348:U:OP2	32:A8:42:ARG:NH1	2.44	0.45
2:AA:2352:A:N3	2:AA:2353:G:O4'	2.50	0.45
2:AA:2380:C:C2'	2:AA:2381:C:C5'	2.91	0.45
2:AA:239:U:C1'	2:AA:259:G:H22	2.28	0.45
2:AA:413:C:N4	2:AA:2410:G:C6	2.85	0.45
2:AA:2450:A:C2	2:AA:2451:A:C4	3.05	0.45
2:AA:2468:G:O6	2:AA:2481:G:C6	2.70	0.45
2:AA:2550:G:C2	2:AA:2559:C:C2	3.05	0.45
2:AA:2548:G:N1	2:AA:2560:C:N4	2.57	0.45
2:AA:2571:C:O2	2:AA:2571:C:H2'	2.16	0.45
2:AA:2436:G:O2'	2:AA:2598:A:C2	2.60	0.45
2:AA:2592:G:C2	2:AA:2603:G:C6	3.04	0.45
2:AA:2661:G:H2'	2:AA:2662:A:N7	2.30	0.45
2:AA:2694:G:C5	2:AA:2695:C:C5	3.05	0.45
2:AA:2699:C:O2	2:AA:2699:C:C2'	2.65	0.45
2:AA:270(E):G:OP2	2:AA:270(E):G:H8	2.00	0.45
2:AA:2767:C:C2	2:AA:2768:C:C5	3.04	0.45
2:AA:2816:C:H2'	2:AA:2817:G:C5'	2.46	0.45
2:AA:2870:C:H2'	2:AA:2871:C:O5'	2.17	0.45
2:AA:2873:A:H3'	2:AA:2874:C:C5	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2877:G:H2'	2:AA:2878:U:C6	2.52	0.45
2:AA:329:G:C6	2:AA:477:A:C2	3.05	0.45
2:AA:270:A:C6	2:AA:370:G:C4	3.05	0.45
2:AA:492:A:C2'	2:AA:493:G:H5'	2.46	0.45
2:AA:475:U:C6	2:AA:509:C:C4	3.05	0.45
2:AA:515:A:H2'	2:AA:516:C:O4'	2.17	0.45
2:AA:562:U:O2'	2:AA:563:G:C5'	2.44	0.45
2:AA:593:G:H2'	2:AA:594:U:O4'	2.17	0.45
2:AA:59:U:C2'	2:AA:60:G:H4'	2.47	0.45
2:AA:685:A:N3	2:AA:688:U:N3	2.65	0.45
2:AA:704:G:HO2'	2:AA:705:A:P	2.40	0.45
2:AA:784:A:H2'	2:AA:785:G:H5''	1.93	0.45
2:AA:77:C:C2	2:AA:78:A:C8	3.05	0.45
2:AA:819:A:N3	2:AA:820:A:C8	2.85	0.45
2:AA:860:U:C5	2:AA:861:A:O4'	2.69	0.45
1:AB:100:G:N2	2:AA:863:A:H4'	2.32	0.45
2:AA:569:U:OP1	2:AA:945:A:C6	2.69	0.45
1:AB:59:A:C4'	7:AG:144:ARG:NE	2.80	0.45
1:AB:83:G:C2	1:AB:84:C:C5	3.04	0.45
3:AC:115:ALA:HB3	3:AC:138:PRO:CB	2.46	0.45
3:AC:198:ALA:O	3:AC:200:LYS:N	2.50	0.45
4:AD:134:ILE:HA	4:AD:135:PRO:HD2	1.85	0.45
4:AD:143:ILE:HG12	4:AD:153:LEU:HB3	1.99	0.45
4:AD:174:ARG:NH2	4:AD:180:VAL:HG11	2.32	0.45
4:AD:172:ILE:HG13	4:AD:182:MET:CE	2.47	0.45
4:AD:107:LYS:CA	4:AD:194:VAL:O	2.63	0.45
2:AA:1805:U:C5'	4:AD:235:PRO:CB	2.94	0.45
4:AD:65:ASP:HA	4:AD:67:LYS:HZ3	1.82	0.45
5:AE:197:GLU:O	5:AE:267:ARG:HA	2.16	0.45
5:AE:243:PRO:O	5:AE:244:SER:CB	2.64	0.45
6:AF:1:MET:N	6:AF:18:LEU:HD12	2.23	0.45
6:AF:196:THR:HG22	6:AF:197:SER:N	2.28	0.45
6:AF:214:THR:C	6:AF:216:SER:N	2.70	0.45
7:AG:56:ARG:HH22	35:BC:19:G:N2	2.15	0.45
9:AI:111:ALA:HB1	9:AI:115:LYS:HE3	1.98	0.45
13:AN:10:VAL:HG12	13:AN:12:ASP:OD1	2.16	0.45
13:AN:110:ASP:C	13:AN:111:PHE:CG	2.91	0.45
13:AN:120:GLU:CG	13:AN:121:VAL:H	2.28	0.45
13:AN:45:ASP:CA	13:AN:54:LYS:HE2	2.47	0.45
15:AP:139:ALA:O	15:AP:143:VAL:HG13	2.16	0.45
15:AP:41:THR:HG23	15:AP:43:PRO:HD2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:61:LEU:H	15:AP:61:LEU:CD2	2.09	0.45
16:AQ:53:ASN:O	16:AQ:54:GLY:C	2.55	0.45
16:AQ:57:THR:O	16:AQ:58:LEU:HB3	2.16	0.45
17:AR:54:THR:C	17:AR:56:ARG:H	2.19	0.45
18:AS:51:LEU:O	18:AS:54:ALA:HB3	2.17	0.45
19:AT:3:ASP:O	22:AW:24:LYS:HD2	2.16	0.45
21:AV:92:VAL:O	21:AV:123:VAL:O	2.34	0.45
21:AV:51:LEU:C	21:AV:51:LEU:HD23	2.37	0.45
36:B1:47:U:H2'	36:B1:48:A:O5'	2.17	0.45
34:BA:1007:C:N4	34:BA:1022:G:H1	2.11	0.45
34:BA:1015:A:H2'	34:BA:1016:A:O5'	2.17	0.45
34:BA:1033:G:C2	34:BA:1034:G:C8	3.05	0.45
34:BA:1308:U:N3	34:BA:1309:G:N7	2.65	0.45
34:BA:1349:A:H2'	34:BA:1350:A:O4'	2.17	0.45
34:BA:134:A:C6	34:BA:135:C:N4	2.85	0.45
34:BA:1402:C:H2'	34:BA:1403:C:O5'	2.17	0.45
34:BA:1428:A:C6	34:BA:1473:A:N6	2.85	0.45
34:BA:1533:C:N3	34:BA:1534:A:O2'	2.50	0.45
34:BA:190(F):G:H8	34:BA:190(F):G:OP1	1.97	0.45
34:BA:183:G:N2	34:BA:223:U:H4'	2.31	0.45
34:BA:237:C:H2'	34:BA:238:G:C8	2.50	0.45
34:BA:30(A):G:H21	34:BA:30(C):G:H3'	1.82	0.45
34:BA:321:A:N3	34:BA:333:G:N2	2.65	0.45
34:BA:359:U:C5	34:BA:360:A:N7	2.85	0.45
34:BA:40:C:C2'	34:BA:41:G:O5'	2.65	0.45
34:BA:448:A:O2'	34:BA:449:C:C5'	2.65	0.45
34:BA:563:A:C2	34:BA:567:G:C4	3.04	0.45
34:BA:634:C:HO2'	34:BA:635:G:H5'	1.79	0.45
34:BA:676:A:O2'	34:BA:677:U:C5'	2.65	0.45
34:BA:763:G:C4	34:BA:764:C:C5	3.05	0.45
34:BA:833:U:HO2'	34:BA:834:C:H6	1.65	0.45
34:BA:958:A:H5'	54:BV:55:LYS:NZ	2.31	0.45
34:BA:974:A:OP2	49:BQ:31:ARG:HG2	2.17	0.45
35:BB:74:C:OP1	35:BB:74:C:C4'	2.60	0.45
35:BC:18:G:C4	35:BC:58:A:C2	3.05	0.45
35:BC:29:A:H61	35:BC:41:U:H3	1.64	0.45
35:BC:16:U:P	35:BC:60:C:O2'	2.75	0.45
35:BC:75:C:O5'	35:BC:76:A:O5'	2.35	0.45
37:BE:145:LEU:CD1	37:BE:149:LEU:CD1	2.95	0.45
37:BE:213:LEU:HD23	37:BE:213:LEU:O	2.17	0.45
37:BE:32:ILE:HD11	37:BE:40:HIS:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BF:107:GLN:H	38:BF:107:GLN:NE2	2.15	0.45
38:BF:184:TYR:CG	38:BF:185:GLY:N	2.85	0.45
38:BF:186:PHE:CA	38:BF:198:VAL:O	2.64	0.45
38:BF:28:GLN:C	38:BF:30:ARG:N	2.70	0.45
34:BA:404:U:OP1	39:BG:118:ARG:CZ	2.64	0.45
39:BG:128:VAL:HG13	39:BG:129:ASN:H	1.82	0.45
34:BA:8:A:N6	39:BG:209:ARG:CA	2.80	0.45
40:BH:102:ALA:HB2	40:BH:120:THR:HG22	1.98	0.45
40:BH:79:GLU:HB3	40:BH:91:LEU:O	2.16	0.45
40:BH:94:ALA:HB1	40:BH:98:THR:CG2	2.32	0.45
41:BI:9:VAL:HG13	41:BI:60:PHE:CA	2.43	0.45
42:BJ:9:VAL:O	42:BJ:10:ARG:O	2.35	0.45
43:BK:44:PHE:HE2	43:BK:109:ILE:HG21	1.75	0.45
43:BK:134:ILE:HG22	43:BK:135:CYS:CB	2.47	0.45
43:BK:26:VAL:HG13	43:BK:27:PRO:HD2	1.99	0.45
43:BK:67:PRO:O	43:BK:68:ARG:C	2.54	0.45
44:BL:30:GLY:O	44:BL:31:GLN:CB	2.65	0.45
46:BN:123:LYS:O	46:BN:125:PHE:N	2.50	0.45
47:BO:45:PRO:HD2	47:BO:51:ALA:H	1.79	0.45
47:BO:90:VAL:HB	47:BO:96:VAL:HB	1.99	0.45
50:BR:29:VAL:HG21	50:BR:81:LEU:CD1	2.44	0.45
50:BR:39:LEU:CD2	50:BR:39:LEU:C	2.81	0.45
50:BR:44:LYS:C	50:BR:45:VAL:O	2.49	0.45
52:BT:43:LEU:HD13	52:BT:69:LYS:HB2	1.99	0.45
52:BT:96:GLN:NE2	52:BT:97:SER:HA	2.31	0.45
53:BU:53:ARG:HA	53:BU:56:THR:OG1	2.16	0.45
54:BV:32:LYS:HB2	54:BV:57:HIS:NE2	2.31	0.45
34:BA:1459:C:P	55:BW:27:LYS:NZ	2.89	0.45
36:B1:37:C:C4	36:B1:38:C:C4	3.05	0.45
24:A0:105:ARG:NH2	24:A0:105:ARG:N	2.65	0.45
24:A0:18:LEU:CD1	24:A0:22:ARG:CZ	2.80	0.45
24:A0:38:VAL:CG1	24:A0:39:PRO:HD3	2.47	0.45
24:A0:87:TYR:N	24:A0:87:TYR:HD2	2.14	0.45
25:A1:9:VAL:C	25:A1:13:ARG:NH2	2.67	0.45
25:A1:28:ARG:HH11	25:A1:28:ARG:CG	2.30	0.45
25:A1:46:GLU:O	25:A1:49:ASP:HB2	2.17	0.45
25:A1:5:LYS:C	25:A1:7:GLY:N	2.68	0.45
25:A1:6:THR:O	25:A1:9:VAL:CG2	2.64	0.45
26:A2:29:ALA:O	26:A2:31:ASP:N	2.49	0.45
27:A3:14:ARG:CG	27:A3:14:ARG:HH11	2.30	0.45
2:AA:2386:C:C4'	27:A3:39:ARG:HH21	2.28	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:A8:28:GLY:O	32:A8:29:LYS:CG	2.55	0.45
33:A9:11:CYS:H	33:A9:32:HIS:CD2	2.34	0.45
33:A9:29:ASN:HB3	33:A9:31:LYS:HB2	1.99	0.45
2:AA:1281:G:C5	2:AA:1282:U:C5	3.05	0.45
2:AA:1358:G:C2'	2:AA:1371:G:N2	2.78	0.45
2:AA:1395:A:N1	2:AA:1398:C:C2	2.85	0.45
2:AA:1408:C:H2'	2:AA:1409:C:H6	1.82	0.45
2:AA:1478:G:N1	2:AA:1515:C:N4	2.65	0.45
2:AA:1394:U:O3'	2:AA:1603:A:C5'	2.65	0.45
2:AA:1748:G:C2	2:AA:1749:A:C5	3.05	0.45
2:AA:1750:G:C4	2:AA:1751:C:C5	3.05	0.45
2:AA:1887:C:O2'	2:AA:1888:G:C5'	2.61	0.45
2:AA:1838:C:O2'	2:AA:1898:U:O4	2.28	0.45
2:AA:1900:A:C2	2:AA:1970:A:N6	2.84	0.45
2:AA:1928:A:H3'	2:AA:1929:G:C5'	2.47	0.45
2:AA:1937:A:C5	2:AA:1939:U:C4	3.04	0.45
2:AA:2012:G:OP1	18:AS:98:LYS:HD2	2.17	0.45
2:AA:2027:G:C1'	2:AA:2037:G:H22	2.30	0.45
2:AA:2139:C:N3	2:AA:2152:G:C6	2.82	0.45
2:AA:2216:G:H2'	2:AA:2217:G:O4'	2.17	0.45
2:AA:2268:A:C4'	2:AA:2268:A:OP1	2.63	0.45
2:AA:2278:A:H1'	15:AP:19:TYR:CD2	2.52	0.45
2:AA:2279:G:C4	2:AA:2280:G:C8	3.05	0.45
2:AA:247:G:H4'	2:AA:386:G:C2	2.48	0.45
2:AA:2515:C:N4	2:AA:2569:G:C6	2.77	0.45
2:AA:195:A:H4'	2:AA:251:A:C4'	2.47	0.45
2:AA:2558:C:C2	2:AA:2559:C:C6	3.05	0.45
2:AA:2520:C:C6	2:AA:2567:G:C1'	3.00	0.45
2:AA:1782:C:C5	2:AA:2587:A:N6	2.85	0.45
2:AA:2590:A:C5	2:AA:2591:C:C5	3.04	0.45
2:AA:2655:G:H2'	2:AA:2656:U:OP2	2.17	0.45
2:AA:270(H):C:H2'	2:AA:270(I):G:H8	1.82	0.45
2:AA:2731:G:C2	2:AA:2732:G:C2	3.05	0.45
2:AA:2737:G:N1	2:AA:2768:C:C4	2.85	0.45
2:AA:2816:C:C2	2:AA:2817:G:C8	3.05	0.45
2:AA:2623:G:C4'	2:AA:2826:A:H1'	2.41	0.45
2:AA:2837:G:C6	2:AA:2882:A:N1	2.84	0.45
2:AA:2839:G:C6	2:AA:2840:C:N3	2.85	0.45
2:AA:324:A:N1	2:AA:325:G:C4	2.85	0.45
2:AA:273(E):U:C4	2:AA:363(A):A:N1	2.85	0.45
2:AA:460:A:N7	2:AA:461:C:C5	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:541:C:O2'	2:AA:542:C:C5'	2.64	0.45
2:AA:570:G:H22	2:AA:2498:C:H4'	1.82	0.45
2:AA:585:G:C2'	2:AA:586:A:N7	2.80	0.45
2:AA:610:C:N1	2:AA:611:C:H5	2.15	0.45
2:AA:68:G:C2'	2:AA:69:C:C6	2.77	0.45
2:AA:715:G:H3'	2:AA:715:G:H8	1.82	0.45
2:AA:789:A:HO2'	2:AA:1781:C:H42	1.64	0.45
2:AA:832:G:O2'	2:AA:833:U:C5'	2.65	0.45
2:AA:819:A:H2	2:AA:943:U:H1'	1.82	0.45
2:AA:946:G:O2'	2:AA:947:G:O4'	2.35	0.45
2:AA:969:U:C5'	23:AX:14:GLY:O	2.65	0.45
1:AB:44:G:P	1:AB:44:G:H8	2.39	0.45
1:AB:61:G:H2'	1:AB:62:C:C5	2.52	0.45
3:AC:128:GLY:CA	3:AC:137:LEU:HD21	2.43	0.45
3:AC:137:LEU:HG	3:AC:164:ARG:NH2	2.32	0.45
3:AC:225:ASN:OD1	3:AC:227:HIS:HB2	2.17	0.45
3:AC:91:ALA:O	3:AC:92:ASP:CG	2.56	0.45
4:AD:202:LYS:O	4:AD:204:PHE:HE1	2.00	0.45
4:AD:213:LYS:CA	4:AD:215:LYS:H	2.19	0.45
2:AA:2306:C:N4	7:AG:53:LYS:HZ2	2.15	0.45
8:AH:10:ILE:HD12	8:AH:49:ILE:HG12	1.97	0.45
8:AH:116:PRO:C	8:AH:120:LEU:HG	2.37	0.45
8:AH:32:LEU:HD23	8:AH:32:LEU:C	2.38	0.45
9:AI:15:VAL:HG22	9:AI:48:ALA:C	2.38	0.45
9:AJ:38:ALA:HA	9:AJ:41:ALA:CB	2.46	0.45
9:AI:110:GLU:OE2	9:AJ:57:THR:HG21	2.16	0.45
11:AL:32:GLY:O	11:AL:60:VAL:HG21	2.17	0.45
11:AL:79:LEU:CD2	11:AL:79:LEU:C	2.85	0.45
12:AM:4:ALA:CA	12:AM:109:TYR:OH	2.65	0.45
12:AM:61:VAL:CG2	12:AM:139:LEU:CB	2.64	0.45
12:AM:98:PHE:H	12:AM:98:PHE:HD1	1.63	0.45
2:AA:2727:G:C4'	13:AN:70:ARG:CZ	2.89	0.45
14:AO:120:LEU:CD1	14:AO:122:ALA:HB2	2.46	0.45
14:AO:56:LYS:O	14:AO:57:VAL:CB	2.65	0.45
15:AP:34:GLY:CA	15:AP:83:PHE:HD1	2.30	0.45
15:AP:49:VAL:HG22	15:AP:121:ASP:H	1.80	0.45
15:AP:66:ASN:O	15:AP:70:ARG:NE	2.50	0.45
16:AQ:67:ALA:O	16:AQ:69:TYR:CD1	2.71	0.45
16:AQ:60:SER:HB2	16:AQ:88:ALA:HB1	1.99	0.45
18:AS:30:GLU:CG	18:AS:31:GLU:N	2.78	0.45
19:AT:28:VAL:O	19:AT:28:VAL:HG23	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AU:46:ASP:CA	20:AU:102:ASP:OD1	2.62	0.45
21:AV:104:SER:CB	21:AV:108:VAL:HB	2.38	0.45
21:AV:16:GLU:CA	21:AV:36:ARG:HH12	2.30	0.45
21:AV:66:VAL:O	21:AV:67:LYS:NZ	2.50	0.45
34:BA:1041:A:C2'	34:BA:1042:G:O5'	2.65	0.45
34:BA:1222:G:C2	34:BA:1223:C:C2	3.05	0.45
34:BA:1223:C:OP1	34:BA:1224:G:H3'	2.17	0.45
34:BA:120:A:C4	34:BA:122:G:C5	3.05	0.45
34:BA:1286:A:H5'	56:BX:25:LYS:CG	2.44	0.45
34:BA:1291:G:P	42:BJ:37:ASN:ND2	2.90	0.45
34:BA:1363:A:OP1	34:BA:1363:A:C8	2.65	0.45
34:BA:1480:G:C2'	34:BA:1481:U:C5'	2.95	0.45
34:BA:791:G:N2	34:BA:1497:G:C5'	2.80	0.45
34:BA:150:C:H6	34:BA:150:C:O5'	1.99	0.45
34:BA:1519:A:C3'	34:BA:1520:G:H5'	2.46	0.45
34:BA:150:C:O2'	34:BA:151:A:O4'	2.30	0.45
34:BA:190(C):C:H1'	34:BA:190(G):G:N2	2.32	0.45
34:BA:130:A:C2	34:BA:264:U:C6	3.05	0.45
34:BA:292:G:C4	34:BA:309:G:N2	2.85	0.45
34:BA:321:A:C6	34:BA:322:C:C4	3.05	0.45
34:BA:382:A:O2'	34:BA:383:A:C5'	2.65	0.45
34:BA:378:G:C2	34:BA:385:C:N3	2.75	0.45
34:BA:448:A:O2'	34:BA:449:C:O4'	2.24	0.45
34:BA:51:A:H4'	34:BA:52:G:OP2	2.16	0.45
34:BA:594:G:O2'	34:BA:595:G:H5'	2.16	0.45
34:BA:608:A:C2	34:BA:609:A:O4'	2.70	0.45
34:BA:626:U:H5''	51:BS:38:TYR:CG	2.52	0.45
34:BA:716:A:C2'	34:BA:717:C:C5'	2.95	0.45
34:BA:760:G:H1	52:BT:105:ALA:CB	2.12	0.45
34:BA:1103:C:O2'	37:BE:111:ARG:HG3	2.16	0.45
37:BE:77:ALA:HB2	37:BE:211:ILE:HD12	1.98	0.45
37:BE:55:PHE:CE2	37:BE:218:ALA:CA	2.93	0.45
38:BF:160:ALA:C	38:BF:162:GLN:N	2.67	0.45
38:BF:43:LEU:O	38:BF:47:LEU:HD23	2.17	0.45
38:BF:51:GLY:O	38:BF:70:VAL:HG13	2.16	0.45
38:BF:5:ILE:O	38:BF:5:ILE:HD12	2.17	0.45
39:BG:191:ARG:CD	39:BG:191:ARG:C	2.73	0.45
39:BG:62:GLN:HE21	39:BG:62:GLN:CA	2.23	0.45
39:BG:94:LEU:O	39:BG:97:LEU:HB2	2.17	0.45
39:BG:95:GLY:O	39:BG:98:GLU:N	2.50	0.45
34:BA:15:G:C5'	40:BH:24:ARG:HH22	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BH:76:ILE:CG1	40:BH:77:PRO:HD2	2.47	0.45
43:BK:104:ARG:HB2	43:BK:108:GLY:N	2.32	0.45
45:BM:31:GLY:N	45:BM:81:THR:OG1	2.50	0.45
45:BM:48:THR:CG2	45:BM:49:VAL:N	2.79	0.45
46:BN:105:VAL:O	46:BN:106:LYS:C	2.55	0.45
46:BN:16:SER:C	46:BN:35:PRO:HG3	2.37	0.45
47:BO:68:ALA:HA	47:BO:98:TYR:O	2.17	0.45
47:BO:9:GLN:O	47:BO:10:LEU:C	2.53	0.45
51:BS:53:VAL:HG23	51:BS:54:GLU:H	1.81	0.45
53:BU:31:LEU:HD13	53:BU:65:ILE:CG1	2.46	0.45
55:BW:67:ALA:O	55:BW:68:LYS:C	2.56	0.45
2:AA:1510:A:C8	2:AA:1511:A:N6	2.85	0.45
37:BE:133:LYS:N	37:BE:133:LYS:CE	2.78	0.45
2:AA:1049:C:H42	2:AA:1050:A:H62	1.64	0.45
10:AK:69:LYS:HG2	10:AK:70:GLU:H	1.76	0.45
37:BE:28:PHE:HE1	37:BE:31:TYR:O	1.95	0.45
37:BE:124:SER:OG	37:BE:126:GLU:CG	2.65	0.45
24:A0:29:LEU:CD2	24:A0:29:LEU:N	2.80	0.44
24:A0:45:ARG:NH1	24:A0:45:ARG:HG2	2.31	0.44
25:A1:64:ARG:O	25:A1:67:ALA:CB	2.65	0.44
25:A1:94:VAL:O	25:A1:97:ASP:HB2	2.17	0.44
26:A2:59:GLU:CD	26:A2:99:GLN:CA	2.65	0.44
26:A2:78:VAL:CB	26:A2:80:TYR:CD1	2.77	0.44
26:A2:96:LEU:HD23	26:A2:96:LEU:N	2.28	0.44
27:A3:29:GLU:O	27:A3:31:VAL:CG2	2.65	0.44
2:AA:397:G:OP1	28:A4:40:HIS:C	2.56	0.44
29:A5:51:TYR:HB3	29:A5:52:TYR:H	1.37	0.44
2:AA:2615:U:C2	29:A5:7:PRO:HA	2.51	0.44
30:A6:37:LEU:HD23	30:A6:50:PHE:O	2.18	0.44
31:A7:24:THR:HG23	31:A7:27:GLY:N	2.31	0.44
31:A7:38:GLY:C	31:A7:40:HIS:ND1	2.71	0.44
33:A9:9:LYS:CE	33:A9:16:VAL:CG2	2.93	0.44
2:AA:1027:A:O2'	2:AA:1028:A:O5'	2.34	0.44
2:AA:1059:G:O6	2:AA:1060:U:H1'	2.18	0.44
2:AA:1153:C:C4	2:AA:1154:G:C6	3.06	0.44
2:AA:1179:C:C2'	2:AA:1180:C:H6	2.30	0.44
2:AA:1181:C:O2'	2:AA:1182:A:OP2	2.36	0.44
2:AA:1196:C:C2	2:AA:1197:G:N7	2.85	0.44
2:AA:1249:U:O2'	2:AA:1250:G:C5'	2.65	0.44
2:AA:1405:U:C2'	2:AA:1406:U:C6	2.95	0.44
2:AA:1436:G:C6	2:AA:1437:C:C5	3.05	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1456:G:N3	2:AA:1457:A:C8	2.86	0.44
2:AA:1475:G:C6	2:AA:1517:G:N2	2.85	0.44
2:AA:155:C:O2'	2:AA:161:U:O5'	2.35	0.44
2:AA:1656:C:H2'	2:AA:1657:C:OP2	2.17	0.44
2:AA:1665:A:O2'	2:AA:1666:G:C5'	2.59	0.44
2:AA:1717:G:N1	2:AA:1718:G:C2	2.81	0.44
2:AA:1829:A:N6	2:AA:1977:A:H62	2.14	0.44
2:AA:1891:G:C2'	2:AA:1891:G:N3	2.80	0.44
2:AA:1988:C:C2'	2:AA:1989:G:H5'	2.47	0.44
2:AA:197:A:C3'	2:AA:198:C:H6	2.30	0.44
2:AA:2082:A:C5	2:AA:2239:G:N1	2.85	0.44
2:AA:2116:G:OP2	3:AC:126:LYS:HB2	2.14	0.44
2:AA:2143:C:C4	2:AA:2149:G:N1	2.83	0.44
2:AA:2150:U:C2'	2:AA:2151:G:N7	2.79	0.44
2:AA:2264:C:H2'	2:AA:2265:U:O5'	2.16	0.44
2:AA:2302:G:O6	2:AA:2315:G:O6	2.35	0.44
2:AA:2364:C:N4	2:AA:2365:G:C2	2.86	0.44
2:AA:2388:A:N7	2:AA:2389:G:C6	2.85	0.44
2:AA:2406:U:O4	14:AO:55:GLN:HB3	2.16	0.44
2:AA:245:G:N1	2:AA:254:G:N3	2.65	0.44
2:AA:1955:U:H3	2:AA:2552:U:HO2'	1.63	0.44
2:AA:2754:U:C2'	2:AA:2756:U:OP2	2.64	0.44
2:AA:2761:G:C2'	2:AA:2762:G:C5'	2.94	0.44
2:AA:2637:U:C2	2:AA:2782:G:C2	3.05	0.44
2:AA:2808:U:H5''	2:AA:2809:A:OP2	2.17	0.44
2:AA:283:A:C8	2:AA:284:U:C5	3.04	0.44
2:AA:2856:C:C4	2:AA:2862:G:N1	2.84	0.44
2:AA:2874:C:O5'	2:AA:2874:C:H6	2.00	0.44
2:AA:302:C:C4	2:AA:303:U:O4	2.70	0.44
2:AA:319:C:C3'	2:AA:320:A:H8	2.30	0.44
2:AA:458:G:H2'	2:AA:469:G:O6	2.16	0.44
2:AA:552:G:C5	2:AA:553:U:C5	3.04	0.44
2:AA:612:G:O3'	2:AA:616:A:N6	2.50	0.44
2:AA:60:G:C6	2:AA:63:U:O4	2.70	0.44
2:AA:677:A:C2	2:AA:678:C:C5	3.05	0.44
2:AA:701:G:N1	2:AA:732:C:N4	2.65	0.44
2:AA:745:G:C2'	2:AA:746:A:H5'	2.47	0.44
2:AA:80:G:O5'	2:AA:80:G:C8	2.69	0.44
2:AA:820:A:H2'	2:AA:820:A:N3	2.32	0.44
2:AA:880:G:C2	2:AA:881:G:H1'	2.51	0.44
2:AA:664:C:H4'	2:AA:941:A:OP1	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:969:U:O2'	2:AA:970:C:O4'	2.35	0.44
2:AA:973:A:H2'	2:AA:974:G:C5'	2.14	0.44
2:AA:996:A:C5'	25:A1:93:LYS:CG	2.92	0.44
1:AB:42:C:H5'	7:AG:48:MET:HG3	1.97	0.44
1:AB:83:G:C2	1:AB:84:C:C6	3.05	0.44
3:AC:130:ILE:HG22	3:AC:131:LEU:HD23	1.97	0.44
3:AC:36:LYS:CG	3:AC:37:PHE:CD2	2.94	0.44
4:AD:116:MET:N	4:AD:127:ASN:OD1	2.34	0.44
4:AD:107:LYS:CB	4:AD:193:GLU:HB2	2.44	0.44
5:AE:201:VAL:O	5:AE:262:THR:OG1	2.19	0.44
6:AF:155:SER:C	6:AF:157:LEU:N	2.70	0.44
6:AF:33:LYS:N	6:AF:36:ARG:HE	2.14	0.44
6:AF:82:GLN:HB3	6:AF:82:GLN:HE21	1.53	0.44
6:AF:46:TYR:H	6:AF:98:ARG:NH1	2.15	0.44
1:AB:59:A:O5'	7:AG:144:ARG:CZ	2.65	0.44
7:AG:147:ALA:O	7:AG:149:ARG:N	2.50	0.44
8:AH:108:TYR:HD2	8:AH:108:TYR:N	2.12	0.44
8:AH:121:GLU:N	8:AH:121:GLU:OE2	2.48	0.44
8:AH:70:LEU:O	8:AH:71:LEU:C	2.55	0.44
10:AK:8:ASP:O	10:AK:9:VAL:HB	2.16	0.44
13:AN:43:VAL:CG1	13:AN:54:LYS:CA	2.75	0.44
2:AA:2684:U:H5'	13:AN:76:TYR:CZ	2.52	0.44
14:AO:66:VAL:CG2	14:AO:110:GLY:O	2.65	0.44
14:AO:52:LYS:CE	14:AO:53:ARG:CZ	2.94	0.44
15:AP:11:LYS:HD2	15:AP:91:HIS:NE2	2.31	0.44
15:AP:67:ALA:HA	15:AP:70:ARG:NE	2.32	0.44
16:AQ:32:PRO:HD3	16:AQ:100:ALA:HA	1.97	0.44
16:AQ:90:LEU:HD23	16:AQ:93:GLN:NE2	2.32	0.44
2:AA:1754:C:O2'	17:AR:44:ARG:NH2	2.50	0.44
18:AS:11:ARG:HE	18:AS:82:LEU:HD21	1.82	0.44
19:AT:17:ASP:O	19:AT:22:ASN:O	2.35	0.44
19:AT:33:SER:O	19:AT:34:LYS:C	2.56	0.44
21:AV:45:GLN:NE2	21:AV:45:GLN:CA	2.79	0.44
21:AV:56:VAL:CG1	21:AV:57:GLU:HG2	2.45	0.44
22:AW:12:THR:C	22:AW:16:ARG:CZ	2.85	0.44
23:AX:12:PRO:HG2	23:AX:13:ILE:N	2.32	0.44
23:AX:5:LYS:HA	23:AX:35:ARG:O	2.17	0.44
34:BA:1018:C:N3	34:BA:1019:C:C6	2.85	0.44
34:BA:1101:A:C2	37:BE:99:GLY:HA3	2.52	0.44
34:BA:1153:C:N4	34:BA:1154:G:C6	2.85	0.44
34:BA:1156:G:C1'	34:BA:1179:A:H61	2.19	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1192:C:C4	34:BA:1193:G:C4	3.04	0.44
34:BA:1217:C:H6	34:BA:1217:C:O5'	2.00	0.44
34:BA:1239:A:H2'	34:BA:1298:C:H41	1.72	0.44
34:BA:1245:A:H2'	34:BA:1246:C:H6	1.72	0.44
34:BA:1327:C:O2'	34:BA:1328:C:C5'	2.65	0.44
34:BA:131:C:C2'	34:BA:132:C:O5'	2.66	0.44
34:BA:1390:U:C2	34:BA:1391:U:C5	3.05	0.44
34:BA:1419:G:H2'	34:BA:1420:C:C6	2.52	0.44
34:BA:1433:A:C4	34:BA:1468:A:C2	3.05	0.44
34:BA:1513:A:H2'	34:BA:1514:C:H6	1.73	0.44
34:BA:191:G:H2'	34:BA:192:U:C6	2.49	0.44
34:BA:386:C:H3'	34:BA:386:C:C6	2.52	0.44
34:BA:424:G:N3	34:BA:425:G:C8	2.86	0.44
34:BA:516:U:C5	34:BA:517:G:C6	3.05	0.44
34:BA:583:A:O2'	34:BA:584:G:H5'	2.17	0.44
34:BA:597:G:H2'	34:BA:598:U:H5'	1.98	0.44
34:BA:61:G:N7	34:BA:62:U:C5	2.85	0.44
34:BA:630:G:C2	34:BA:631:G:C8	3.04	0.44
34:BA:767:A:N1	34:BA:768:A:C2	2.85	0.44
34:BA:781:A:H2'	34:BA:782:A:O5'	2.15	0.44
34:BA:802:A:N6	34:BA:803:G:N2	2.64	0.44
34:BA:817:C:HO2'	34:BA:818:G:H5''	1.78	0.44
34:BA:849:C:C2'	34:BA:850:U:H5'	2.46	0.44
34:BA:915:A:C2'	34:BA:916:G:H5'	2.47	0.44
34:BA:979:C:OP2	34:BA:980:C:N4	2.51	0.44
35:BC:21:A:N1	35:BC:48:C:C4	2.85	0.44
37:BE:102:LEU:O	37:BE:180:LEU:HD11	2.17	0.44
37:BE:189:ASP:OD2	37:BE:205:ASP:N	2.45	0.44
37:BE:67:THR:HB	37:BE:90:MET:SD	2.57	0.44
37:BE:7:VAL:O	37:BE:9:GLU:N	2.50	0.44
38:BF:179:ARG:O	38:BF:181:ASN:N	2.50	0.44
38:BF:91:LEU:HD23	38:BF:92:ALA:CA	2.47	0.44
39:BG:127:THR:C	39:BG:128:VAL:O	2.50	0.44
39:BG:145:GLU:CG	39:BG:184:LYS:HE2	2.26	0.44
40:BH:112:LEU:HD22	40:BH:112:LEU:HA	1.80	0.44
40:BH:76:ILE:HG23	40:BH:77:PRO:CG	2.47	0.44
41:BI:76:ALA:O	41:BI:79:LEU:HG	2.16	0.44
42:BJ:105:VAL:C	42:BJ:109:ASN:ND2	2.71	0.44
42:BJ:146:GLU:HG3	42:BJ:149:ARG:NH2	2.24	0.44
43:BK:114:THR:HB	43:BK:130:GLY:O	2.16	0.44
43:BK:18:ARG:HH11	43:BK:18:ARG:N	2.08	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BK:56:LYS:HA	43:BK:57:PRO:HD2	1.77	0.44
44:BL:102:LEU:O	44:BL:103:THR:HB	2.17	0.44
45:BM:24:VAL:C	45:BM:34:VAL:HG21	2.37	0.44
45:BM:75:ILE:C	45:BM:76:ASN:ND2	2.70	0.44
46:BN:33:THR:CA	46:BN:40:ILE:HG13	2.48	0.44
47:BO:30:ALA:CB	47:BO:31:PRO:CD	2.92	0.44
48:BP:44:ARG:O	48:BP:47:ASP:CG	2.56	0.44
48:BP:74:VAL:HG12	48:BP:78:ILE:HD12	1.93	0.44
48:BP:90:LEU:O	48:BP:91:ARG:C	2.55	0.44
49:BQ:47:LEU:HB3	49:BQ:53:LEU:HD21	1.97	0.44
38:BF:33:LEU:CG	49:BQ:54:PRO:HD2	2.44	0.44
54:BV:62:ILE:CG1	54:BV:63:THR:N	2.73	0.44
55:BW:34:LYS:O	55:BW:35:THR:C	2.54	0.44
56:BX:14:TRP:CZ3	56:BX:15:ARG:HG3	2.53	0.44
10:AK:133:LEU:HD12	10:AK:139:ALA:N	2.32	0.44
10:AK:79:ILE:HD13	10:AK:145:VAL:HG23	1.99	0.44
10:AK:84:GLY:C	10:AK:147:GLU:OE2	2.55	0.44
2:AA:1508:A:C8	2:AA:1509:C:OP2	2.64	0.44
2:AA:1050:A:N6	2:AA:2751:G:C6	2.85	0.44
10:AK:58:ALA:O	10:AK:59:ALA:C	2.54	0.44
2:AA:56:A:C3'	2:AA:57:C:C6	3.00	0.44
24:A0:16:HIS:O	24:A0:19:ALA:HB3	2.16	0.44
24:A0:67:LEU:CD2	24:A0:71:GLN:CA	2.91	0.44
25:A1:111:ASP:HA	25:A1:114:ARG:HG3	1.98	0.44
25:A1:14:HIS:CD2	25:A1:36:PHE:CE2	3.05	0.44
27:A3:16:SER:O	27:A3:17:ASN:CG	2.56	0.44
27:A3:39:ARG:NH1	27:A3:69:PHE:CD1	2.86	0.44
28:A4:32:HIS:O	28:A4:33:VAL:O	2.35	0.44
2:AA:396:G:O2'	28:A4:39:VAL:CG1	2.65	0.44
29:A5:49:CYS:O	29:A5:57:VAL:HG11	2.17	0.44
33:A9:9:LYS:N	33:A9:34:GLN:HE22	2.14	0.44
2:AA:1008:C:H6	2:AA:1008:C:O5'	2.00	0.44
2:AA:1084:A:N1	2:AA:1085:A:C2	2.86	0.44
2:AA:1106:G:O6	2:AA:1107:G:O6	2.35	0.44
2:AA:1173:G:H2'	2:AA:1174:A:N7	2.32	0.44
2:AA:1311:G:C3'	2:AA:1311:G:C8	3.00	0.44
2:AA:1349:A:C2'	2:AA:1350:C:OP1	2.65	0.44
2:AA:1364:G:O5'	2:AA:1809:A:C5	2.69	0.44
2:AA:1353:A:N7	2:AA:1377:G:N2	2.65	0.44
2:AA:1380:G:C6	2:AA:1381:G:C5	3.05	0.44
2:AA:1381:G:O6	2:AA:1382:G:C6	2.71	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1425:G:H2'	2:AA:1426:G:C5	2.52	0.44
2:AA:1451:C:C3'	2:AA:1453:A:H5'	2.47	0.44
2:AA:14:A:N7	2:AA:15:G:C5	2.82	0.44
2:AA:1650:G:C2	2:AA:1651:G:N9	2.84	0.44
2:AA:1657:C:C2	2:AA:1658:C:C6	3.06	0.44
2:AA:1663:C:C4	2:AA:1992:G:N7	2.85	0.44
2:AA:1707:G:C3'	2:AA:1708:C:H6	2.30	0.44
2:AA:1839:G:C2'	2:AA:1839:G:N3	2.80	0.44
2:AA:185:U:O2'	2:AA:186:G:C5'	2.65	0.44
2:AA:1857:G:C6	2:AA:1884:A:N1	2.85	0.44
2:AA:2004:G:C6	2:AA:2005:A:C6	3.05	0.44
2:AA:200:U:H2'	2:AA:201:C:H5'	1.99	0.44
2:AA:2018:G:N1	2:AA:2019:A:C4	2.85	0.44
2:AA:2032:G:O6	2:AA:2454:G:C4'	2.66	0.44
2:AA:203:C:P	2:AA:204:A:H3'	2.57	0.44
2:AA:2053:G:C2	2:AA:2054:A:C4	3.05	0.44
2:AA:2107:C:H3'	2:AA:2107:C:C6	2.53	0.44
2:AA:2115:G:C2'	2:AA:2115:G:N3	2.80	0.44
2:AA:2135:A:H62	2:AA:2150:U:C2'	2.30	0.44
2:AA:2069:G:C4	2:AA:2443:C:N3	2.84	0.44
2:AA:25:U:H3'	2:AA:26:G:C8	2.52	0.44
2:AA:2654:A:O2'	2:AA:2655:G:C1'	2.65	0.44
2:AA:2694:G:H2'	2:AA:2695:C:H5'	1.99	0.44
2:AA:270(O):U:H5	10:AK:53:LYS:HZ1	1.64	0.44
2:AA:2746:U:O4	2:AA:2756:U:C5	2.71	0.44
2:AA:2765:A:N3	2:AA:2765:A:H3'	2.33	0.44
2:AA:2766:G:C2	2:AA:2767:C:C5	3.06	0.44
2:AA:2785:C:H1'	5:AE:100:TRP:NE1	2.32	0.44
2:AA:280:C:HO2'	2:AA:281:G:P	2.35	0.44
2:AA:2850:A:O2'	2:AA:2851:A:O5'	2.31	0.44
2:AA:356:G:H2'	2:AA:357:A:C4	2.51	0.44
2:AA:269:U:O4	2:AA:370:G:N7	2.50	0.44
2:AA:374:A:N3	2:AA:375:C:O4'	2.50	0.44
2:AA:519:U:H5'	18:AS:75:TYR:CB	2.47	0.44
2:AA:565:C:C4	2:AA:566:U:C4	3.05	0.44
2:AA:578:A:H2'	2:AA:579:G:C5'	2.47	0.44
2:AA:668:G:H5'	2:AA:669:G:P	2.56	0.44
2:AA:831:G:O6	2:AA:832:G:C6	2.70	0.44
2:AA:846:C:H1'	2:AA:847:U:H5	1.82	0.44
2:AA:892:G:N1	2:AA:893:C:C4	2.86	0.44
2:AA:917:A:H5''	2:AA:2268:A:N6	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:971:C:O2'	2:AA:972:G:H4'	2.17	0.44
3:AC:70:LYS:CB	3:AC:157:LYS:NZ	2.80	0.44
3:AC:91:ALA:CB	3:AC:153:ILE:HD13	2.47	0.44
4:AD:110:LYS:O	4:AD:111:VAL:C	2.56	0.44
4:AD:73:ILE:C	4:AD:116:MET:HE1	2.37	0.44
4:AD:144:GLU:OE1	4:AD:187:CYS:HB3	2.17	0.44
4:AD:76:ARG:HB3	4:AD:113:MET:CG	2.45	0.44
5:AE:107:GLU:CD	5:AE:110:ARG:NH1	2.71	0.44
5:AE:196:GLY:HA2	5:AE:297:LYS:NZ	2.31	0.44
5:AE:43:GLY:O	5:AE:309:PRO:HG2	2.17	0.44
5:AE:68:VAL:CG1	5:AE:69:PRO:N	2.78	0.44
6:AF:102:LEU:HB2	6:AF:107:ARG:NE	2.23	0.44
6:AF:144:PHE:CD2	6:AF:156:LEU:CD1	3.01	0.44
6:AF:93:LYS:HB2	6:AF:96:LYS:HE3	1.99	0.44
8:AH:123:GLU:O	8:AH:130:ILE:HG23	2.17	0.44
8:AH:40:MET:HE3	8:AH:64:HIS:HE1	1.76	0.44
9:AI:63:LEU:HB3	9:AI:95:ALA:HB1	1.98	0.44
9:AI:45:ALA:C	9:AJ:19:ALA:HB1	2.38	0.44
10:AK:4:ILE:CG1	10:AK:37:ILE:O	2.64	0.44
11:AL:113:MET:CA	11:AL:116:LEU:HB3	2.47	0.44
11:AL:21:ALA:HB3	11:AL:22:PRO:HD3	1.97	0.44
12:AM:108:PRO:HD2	12:AM:109:TYR:H	1.81	0.44
12:AM:19:MET:CB	12:AM:46:ILE:HG13	2.47	0.44
13:AN:41:ALA:C	13:AN:42:THR:HG23	2.38	0.44
15:AP:50:VAL:HG11	15:AP:147:VAL:HG22	1.99	0.44
18:AS:12:ILE:HD12	18:AS:46:PHE:CD2	2.52	0.44
18:AS:21:VAL:O	18:AS:22:ASP:C	2.55	0.44
18:AS:25:ARG:O	18:AS:26:GLY:C	2.55	0.44
19:AT:16:ASN:O	19:AT:19:ASP:OD1	2.35	0.44
19:AT:3:ASP:HA	22:AW:24:LYS:CD	2.48	0.44
19:AT:44:GLN:OE1	19:AT:45:TYR:HD1	1.99	0.44
19:AT:56:ASN:HD21	19:AT:62:LYS:HZ1	1.65	0.44
21:AV:141:MET:O	21:AV:142:ASN:CG	2.56	0.44
21:AV:2:GLU:C	21:AV:54:ILE:HG13	2.38	0.44
22:AW:45:ARG:HG3	22:AW:46:ILE:N	2.32	0.44
22:AW:8:ILE:O	22:AW:11:MET:CB	2.63	0.44
34:BA:1026:G:C5	34:BA:1027:C:C6	3.05	0.44
34:BA:1075:C:H4'	34:BA:1101:A:N6	2.32	0.44
34:BA:1113:C:OP2	34:BA:1113:C:C5	2.69	0.44
34:BA:1127:G:H1'	34:BA:1148:U:C4	2.51	0.44
34:BA:1129:C:C5	34:BA:1133:G:O6	2.70	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1130:A:C2	34:BA:1146:A:C4	3.06	0.44
34:BA:116:A:C6	34:BA:117:G:C5	3.05	0.44
34:BA:1117:G:C4	34:BA:1184:G:N1	2.86	0.44
34:BA:1249:C:C1'	44:BL:70:LYS:NZ	2.80	0.44
34:BA:1288:A:C4	34:BA:1289:A:N7	2.84	0.44
34:BA:1269:A:N9	34:BA:1313:U:H1'	2.33	0.44
34:BA:1317:C:OP1	34:BA:1317:C:H6	1.99	0.44
34:BA:1321:C:H41	54:BV:37:ARG:NH1	2.15	0.44
34:BA:1386:G:C2'	34:BA:1387:G:O5'	2.65	0.44
34:BA:1402:C:H2'	34:BA:1403:C:O4'	2.17	0.44
34:BA:1435:G:H1	34:BA:1466:C:H42	1.65	0.44
34:BA:1468:A:N7	34:BA:1469:G:N7	2.65	0.44
34:BA:188:C:N3	34:BA:189:G:N7	2.65	0.44
34:BA:240:C:N3	34:BA:241:C:H5	2.14	0.44
34:BA:293:G:C6	34:BA:305:G:C2	3.05	0.44
34:BA:315:A:O2'	34:BA:316:G:OP2	2.33	0.44
34:BA:386:C:C2'	34:BA:387:U:C5'	2.69	0.44
34:BA:442:C:C2	34:BA:443:C:C6	3.04	0.44
34:BA:463:A:C8	34:BA:474:G:N7	2.85	0.44
34:BA:25:C:H4'	34:BA:524:G:N3	2.33	0.44
34:BA:532:A:HO2'	34:BA:533:A:P	2.38	0.44
34:BA:730:G:C5	34:BA:731:G:H1'	2.52	0.44
34:BA:740:U:OP2	50:BR:2:PRO:CG	2.64	0.44
34:BA:742:G:H2'	34:BA:743:U:O4'	2.17	0.44
34:BA:838:G:C2	34:BA:849:C:C2	3.06	0.44
34:BA:939:G:H5''	42:BJ:102:ARG:NH1	2.26	0.44
34:BA:957:U:H3	34:BA:960:U:C5'	2.29	0.44
35:BB:16:U:H4'	35:BB:18:G:H5''	1.99	0.44
35:BB:58:A:C4	35:BB:61:C:C5	3.05	0.44
35:BB:60:C:OP2	35:BB:61:C:H6	1.88	0.44
35:BC:10:G:N1	35:BC:11:C:C4	2.85	0.44
15:AP:98:GLY:C	35:BC:1:G:O2'	2.54	0.44
35:BC:21:A:C2	35:BC:48:C:C4	3.06	0.44
37:BE:152:PHE:CD1	37:BE:153:ARG:N	2.85	0.44
37:BE:166:ASP:HA	37:BE:187:LEU:O	2.17	0.44
37:BE:182:ILE:HG22	37:BE:183:PRO:HD2	1.98	0.44
37:BE:39:ILE:CG2	37:BE:40:HIS:O	2.66	0.44
38:BF:145:GLY:O	38:BF:146:ALA:HB2	2.16	0.44
38:BF:18:TRP:HZ2	49:BQ:57:ARG:HB2	1.82	0.44
38:BF:21:ARG:O	38:BF:22:TRP:CD1	2.70	0.44
38:BF:23:TYR:CD2	38:BF:24:ALA:N	2.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BG:8:VAL:CA	39:BG:11:LEU:HG	2.46	0.44
39:BG:47:ARG:NH2	39:BG:48:ALA:O	2.47	0.44
39:BG:60:GLU:HB3	39:BG:202:LEU:HB3	1.97	0.44
40:BH:43:LEU:HD13	40:BH:133:TYR:HE2	1.80	0.44
41:BI:89:MET:HG2	53:BU:76:LEU:HD11	1.98	0.44
42:BJ:122:HIS:O	42:BJ:125:MET:HB2	2.18	0.44
42:BJ:38:LEU:HA	42:BJ:41:ARG:CG	2.29	0.44
42:BJ:76:ARG:HD2	42:BJ:89:MET:CE	2.44	0.44
42:BJ:91:VAL:O	42:BJ:92:SER:C	2.54	0.44
43:BK:38:ILE:CA	43:BK:41:ARG:HB3	2.41	0.44
43:BK:4:ASP:O	43:BK:5:PRO:C	2.56	0.44
44:BL:116:LYS:HB3	44:BL:122:ALA:CA	2.41	0.44
45:BM:30:SER:CB	45:BM:81:THR:CA	2.95	0.44
45:BM:3:LYS:HG3	45:BM:75:ILE:HG23	1.99	0.44
45:BM:8:LEU:HD23	45:BM:95:GLU:O	2.16	0.44
47:BO:39:VAL:CG1	47:BO:41:ARG:HB2	2.47	0.44
34:BA:974:A:C1'	49:BQ:31:ARG:NH2	2.62	0.44
34:BA:1188:A:H4'	49:BQ:58:LYS:HZ1	1.82	0.44
50:BR:63:ARG:O	50:BR:67:LEU:HG	2.17	0.44
51:BS:5:ARG:C	51:BS:6:LEU:CD1	2.80	0.44
51:BS:60:LEU:O	51:BS:61:SER:C	2.55	0.44
52:BT:28:PRO:CA	52:BT:35:VAL:HA	2.41	0.44
53:BU:36:ASN:HB3	53:BU:40:LEU:CG	2.47	0.44
55:BW:26:ASN:HB3	55:BW:71:THR:HG23	1.99	0.44
55:BW:92:LEU:H	55:BW:92:LEU:HG	1.48	0.44
10:AK:131:VAL:HG12	10:AK:133:LEU:HD21	1.99	0.44
10:AK:114:LYS:NZ	10:AK:133:LEU:HD22	2.32	0.44
10:AK:99:ALA:HA	10:AK:102:LEU:HG	1.99	0.44
47:BO:126:LYS:O	47:BO:127:GLU:C	2.55	0.44
7:AG:58:VAL:CG1	7:AG:61:PHE:CD1	3.00	0.44
24:A0:100:LEU:HD23	24:A0:113:LEU:H	1.81	0.44
24:A0:64:ARG:NH1	24:A0:65:LEU:HG	2.31	0.44
24:A0:67:LEU:CB	24:A0:76:VAL:HG21	2.43	0.44
25:A1:15:LYS:C	25:A1:18:LEU:HB2	2.33	0.44
25:A1:19:LYS:HB2	25:A1:19:LYS:HE3	1.56	0.44
2:AA:561:G:O2'	25:A1:45:TYR:OH	2.26	0.44
32:A8:23:MET:CE	32:A8:48:PHE:CB	2.94	0.44
2:AA:1024:G:C6	2:AA:1025:G:C8	3.06	0.44
2:AA:1024:G:H3'	2:AA:1024:G:H8	1.80	0.44
2:AA:1063:G:C2	2:AA:1075:C:N4	2.84	0.44
2:AA:1064:C:N4	2:AA:1075:C:N4	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1154:G:O2'	2:AA:1155:A:C5'	2.64	0.44
2:AA:819:A:C2	2:AA:1189:A:N3	2.86	0.44
2:AA:1198:U:H2'	2:AA:1199:U:C5	2.52	0.44
2:AA:1233:C:H2'	2:AA:1233:C:O2	2.16	0.44
2:AA:1256:G:H2'	2:AA:1257:C:C6	2.45	0.44
2:AA:1342:A:H3'	2:AA:1342:A:C8	2.52	0.44
2:AA:1351:C:C4	2:AA:1381:G:N1	2.86	0.44
2:AA:1365:A:N6	2:AA:1366:A:C6	2.85	0.44
2:AA:136:G:C6	2:AA:143:C:C2	3.05	0.44
2:AA:1413:G:C4	2:AA:1414:G:C8	3.06	0.44
2:AA:143:C:C3'	2:AA:143:C:H6	2.30	0.44
2:AA:1522:G:O5'	2:AA:1522:G:H8	2.00	0.44
2:AA:1566:A:O4'	2:AA:1566:A:P	2.75	0.44
2:AA:1571:A:H2	2:AA:1572:A:H8	1.66	0.44
2:AA:1625:C:H6	2:AA:1625:C:O5'	2.01	0.44
2:AA:1657:C:O5'	2:AA:1657:C:C6	2.70	0.44
2:AA:1660:C:H2'	2:AA:1661:G:H8	1.82	0.44
2:AA:1668:A:N7	2:AA:1993:U:O4	2.49	0.44
2:AA:1684:C:N4	2:AA:1705:G:N1	2.66	0.44
2:AA:1767:C:C4	2:AA:1768:U:C5	3.05	0.44
2:AA:729:G:N1	2:AA:1775:U:C6	2.85	0.44
2:AA:1778:U:N3	2:AA:1784:A:N3	2.65	0.44
2:AA:1803:A:H3'	2:AA:1803:A:C8	2.52	0.44
2:AA:1881:C:H2'	2:AA:1882:C:O4'	2.18	0.44
2:AA:1891:G:C6	2:AA:1892:C:C4	3.05	0.44
2:AA:1999:C:H4'	2:AA:2723:C:O2	2.16	0.44
2:AA:2044:C:HO2'	2:AA:2045:C:H5'	1.83	0.44
2:AA:2078:C:C4	2:AA:2079:U:C5	3.05	0.44
2:AA:2110:G:O6	2:AA:2179:C:N3	2.50	0.44
2:AA:2193:G:N1	2:AA:2194:G:N7	2.65	0.44
2:AA:2197:U:O2'	2:AA:2198:A:C8	2.64	0.44
2:AA:2261:C:H5'	2:AA:2388:A:C4'	2.47	0.44
2:AA:2284:C:N4	2:AA:2285:C:N4	2.65	0.44
2:AA:2345:G:N2	2:AA:2381:C:H2'	2.32	0.44
2:AA:834:C:C1'	2:AA:2358:G:C2	2.99	0.44
2:AA:2385:C:C2	2:AA:2386:C:C6	3.06	0.44
2:AA:2461:C:O2	2:AA:2462:U:C6	2.71	0.44
2:AA:2468:G:O2'	2:AA:2469:A:H8	1.88	0.44
2:AA:2600:A:N3	2:AA:2601:C:C5	2.85	0.44
2:AA:261:G:N2	2:AA:262:A:C4	2.85	0.44
2:AA:2624:G:N1	2:AA:2625:G:C4	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2635:C:N3	2:AA:2636:U:C6	2.85	0.44
2:AA:2639:A:H1'	2:AA:2778:A:C2	2.52	0.44
2:AA:2737:G:N2	2:AA:2768:C:C2	2.86	0.44
2:AA:2637:U:C2	2:AA:2782:G:N2	2.86	0.44
2:AA:2781:A:H5'	2:AA:2782:G:O4'	2.16	0.44
2:AA:2785:C:H1'	5:AE:100:TRP:HD1	1.76	0.44
2:AA:2804:C:H5	2:AA:2805:G:O6	1.98	0.44
2:AA:2825:C:C4	2:AA:2826:A:C8	3.06	0.44
2:AA:2836:U:C2'	2:AA:2837:G:O5'	2.66	0.44
2:AA:2873:A:O2'	2:AA:2874:C:OP1	2.33	0.44
2:AA:2877:G:C2	2:AA:2878:U:C4	3.05	0.44
2:AA:322:A:C4'	2:AA:341:G:H5'	2.46	0.44
2:AA:354:G:O5'	2:AA:354:G:H8	2.00	0.44
2:AA:391:G:N7	2:AA:411:G:N2	2.65	0.44
2:AA:435:C:H2'	2:AA:436:C:C5'	2.46	0.44
2:AA:438:G:H2'	2:AA:439:G:O5'	2.17	0.44
2:AA:449:A:C2	2:AA:450:G:C5	3.04	0.44
2:AA:531:C:H2'	2:AA:532:A:OP1	2.17	0.44
2:AA:556:G:C2'	2:AA:557:U:O4'	2.64	0.44
2:AA:60:G:N7	2:AA:63:U:C5	2.86	0.44
2:AA:62:C:P	2:AA:63:U:OP1	2.75	0.44
2:AA:674:G:C2	2:AA:804:A:C2	3.05	0.44
2:AA:680:G:C6	2:AA:681:G:C6	3.06	0.44
2:AA:72:U:H1'	22:AW:54:ALA:CA	2.46	0.44
2:AA:684:G:N1	2:AA:775:G:C8	2.85	0.44
2:AA:851:U:N3	2:AA:928:G:N2	2.65	0.44
2:AA:852:G:N1	2:AA:853:G:C5	2.86	0.44
2:AA:958:U:C4	15:AP:9:SER:HA	2.52	0.44
2:AA:988:A:OP1	23:AX:11:SER:CB	2.51	0.44
1:AB:17:C:C3'	1:AB:18:G:H8	2.29	0.44
3:AC:62:VAL:HG21	3:AC:192:PHE:HA	1.99	0.44
6:AF:200:PRO:HD3	6:AF:214:THR:HG22	1.99	0.44
6:AF:89:ALA:O	6:AF:90:HIS:CD2	2.71	0.44
8:AH:13:GLY:O	8:AH:15:THR:N	2.51	0.44
2:AA:1085:A:P	9:AI:34:ALA:HA	2.57	0.44
10:AK:7:LYS:N	10:AK:14:LYS:CG	2.79	0.44
11:AL:93:LYS:HZ2	21:AV:108:VAL:CG1	2.28	0.44
13:AN:112:MET:N	13:AN:115:ILE:HD12	2.32	0.44
13:AN:65:THR:OG1	13:AN:67:ARG:HG2	2.17	0.44
15:AP:132:VAL:O	15:AP:133:GLU:C	2.54	0.44
15:AP:133:GLU:C	15:AP:133:GLU:CD	2.75	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:143:VAL:HG21	15:AP:147:VAL:CG2	2.47	0.44
16:AQ:80:SER:OG	16:AQ:81:ALA:N	2.51	0.44
20:AU:101:LEU:HD13	20:AU:113:GLU:CB	2.47	0.44
20:AU:53:GLY:O	20:AU:54:ASP:C	2.54	0.44
20:AU:80:GLU:HA	20:AU:86:GLU:HA	1.99	0.44
1:AB:83:G:H5''	23:AX:52:HIS:CD2	2.53	0.44
36:B1:12:U:H2'	36:B1:13:G:O5'	2.17	0.44
36:B1:66:G:H2'	36:B1:66:G:N3	2.31	0.44
34:BA:1005:A:H3'	34:BA:1006:C:H6	1.82	0.44
34:BA:1104:G:C4	34:BA:1105:A:C8	3.06	0.44
34:BA:1178:G:P	34:BA:1178:G:H8	2.40	0.44
34:BA:1186:G:H8	34:BA:1186:G:OP2	2.00	0.44
34:BA:1193:G:C6	34:BA:1194:U:C4	3.06	0.44
34:BA:1216:G:H5''	49:BQ:5:ALA:HB1	1.97	0.44
34:BA:959:A:C2	34:BA:1221:G:N3	2.81	0.44
34:BA:120:A:C6	34:BA:122:G:C2	3.06	0.44
34:BA:1265:G:O6	34:BA:1266:G:N2	2.51	0.44
34:BA:1412:C:C2	34:BA:1489:G:N2	2.85	0.44
34:BA:1485:U:O2	34:BA:1486:G:C8	2.71	0.44
34:BA:1490:C:C4'	34:BA:1490:C:C6	2.97	0.44
34:BA:32:A:N3	34:BA:33:A:H1'	2.33	0.44
34:BA:376:G:C6	34:BA:377:G:N7	2.86	0.44
34:BA:381:C:H2'	34:BA:382:A:C8	2.51	0.44
34:BA:405:U:H3'	34:BA:406:G:H5'	1.98	0.44
34:BA:484:G:O2'	34:BA:485:G:OP2	2.33	0.44
34:BA:25:C:N4	34:BA:558:G:N2	2.65	0.44
34:BA:557:G:H5''	34:BA:558:G:OP2	2.18	0.44
34:BA:586:C:N3	34:BA:755:G:N2	2.61	0.44
34:BA:628:G:C2'	34:BA:629:G:H8	2.17	0.44
34:BA:673:G:O2'	34:BA:674:G:O4'	2.30	0.44
34:BA:67:C:O2	34:BA:171:A:H2	2.01	0.44
34:BA:683:G:N2	46:BN:39:PRO:HD2	2.33	0.44
34:BA:685:G:H8	34:BA:685:G:O5'	2.00	0.44
34:BA:722:A:N1	34:BA:724:G:C6	2.85	0.44
34:BA:886:G:C6	34:BA:912:C:N3	2.86	0.44
34:BA:89:C:C5	34:BA:90:U:C5	3.06	0.44
34:BA:946:A:N3	34:BA:947:G:C8	2.85	0.44
34:BA:951:G:C2	34:BA:952:U:N1	2.85	0.44
37:BE:217:ARG:HH11	37:BE:217:ARG:HG3	1.81	0.44
37:BE:97:TRP:CZ2	37:BE:173:ALA:HB2	2.53	0.44
38:BF:107:GLN:O	38:BF:108:ASN:HB2	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BF:156:ARG:N	38:BF:163:ALA:CB	2.76	0.44
38:BF:162:GLN:CD	38:BF:163:ALA:H	2.20	0.44
38:BF:21:ARG:HH21	38:BF:54:ARG:NH2	2.10	0.44
34:BA:1189:C:H5"	38:BF:5:ILE:HG12	1.99	0.44
38:BF:77:ILE:O	38:BF:81:GLY:HA2	2.18	0.44
38:BF:83:ARG:CZ	38:BF:87:LEU:HD21	2.43	0.44
42:BJ:26:PHE:CE2	42:BJ:30:ILE:HD11	2.52	0.44
42:BJ:76:ARG:NH1	42:BJ:89:MET:HE1	2.33	0.44
42:BJ:80:VAL:O	42:BJ:80:VAL:HG12	2.18	0.44
43:BK:14:ARG:HD2	43:BK:15:ASN:N	2.33	0.44
43:BK:92:ARG:HB3	43:BK:94:TYR:HE1	1.83	0.44
44:BL:36:TYR:C	44:BL:38:GLN:H	2.21	0.44
44:BL:48:GLU:N	44:BL:49:PRO:CD	2.80	0.44
45:BM:56:HIS:C	45:BM:58:ASP:N	2.71	0.44
46:BN:42:TRP:CE3	46:BN:43:SER:HA	2.45	0.44
46:BN:43:SER:OG	46:BN:44:SER:N	2.50	0.44
46:BN:68:ALA:O	46:BN:69:ALA:C	2.56	0.44
47:BO:113:ARG:C	47:BO:114:LYS:CG	2.79	0.44
48:BP:71:ARG:HA	48:BP:74:VAL:CG2	2.45	0.44
49:BQ:43:CYS:O	49:BQ:47:LEU:CG	2.62	0.44
50:BR:21:ASP:CG	50:BR:21:ASP:O	2.56	0.44
50:BR:74:ASP:O	50:BR:74:ASP:CG	2.52	0.44
50:BR:79:ARG:O	50:BR:82:ILE:HB	2.16	0.44
51:BS:14:ASN:OD1	51:BS:16:HIS:CE1	2.70	0.44
52:BT:2:PRO:C	52:BT:4:LYS:N	2.70	0.44
54:BV:41:VAL:O	54:BV:42:PRO:C	2.55	0.44
55:BW:67:ALA:O	55:BW:68:LYS:O	2.35	0.44
40:BH:39:GLY:CA	40:BH:69:VAL:HG23	2.47	0.44
40:BH:28:PHE:HE1	40:BH:49:PRO:O	2.01	0.44
36:B1:25:U:O4	36:B1:28:U:OP2	2.34	0.44
40:BH:137:GLU:O	40:BH:138:ALA:C	2.55	0.44
11:AL:85:ILE:HG23	11:AL:85:ILE:O	2.16	0.44
25:A1:56:ASP:O	25:A1:60:LEU:HD12	2.17	0.44
27:A3:24:LYS:O	27:A3:25:LYS:CB	2.66	0.44
27:A3:36:ILE:O	27:A3:37:LEU:HD23	2.18	0.44
28:A4:7:PRO:O	28:A4:60:ASN:ND2	2.51	0.44
31:A7:33:ARG:O	31:A7:37:LYS:CG	2.66	0.44
33:A9:24:LEU:HD22	33:A9:35:ARG:HA	1.98	0.44
2:AA:1068:G:C2	2:AA:1073:A:C2	3.06	0.44
2:AA:1073:A:OP2	2:AA:1094:U:O4	2.36	0.44
2:AA:1206:G:H1'	2:AA:1242:A:H61	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1215:G:H2'	2:AA:1216:G:O4'	2.18	0.44
2:AA:1243:G:C5	2:AA:1244:G:N7	2.86	0.44
2:AA:1255:U:H6	2:AA:2502:G:N2	2.15	0.44
2:AA:147:U:N3	2:AA:148:C:C4	2.85	0.44
2:AA:147:U:C2	2:AA:148:C:C6	3.05	0.44
2:AA:1576:U:C5	2:AA:1577:C:C4	2.90	0.44
2:AA:1300:U:O2	2:AA:1634:A:H1'	2.18	0.44
2:AA:1682:G:OP1	2:AA:1699:G:N1	2.50	0.44
2:AA:1725:G:N1	2:AA:1735:C:C2	2.79	0.44
2:AA:1800:C:H1'	2:AA:1802:A:H1'	1.99	0.44
2:AA:1855:G:N2	2:AA:1887:C:C2	2.73	0.44
2:AA:1878:G:C2'	2:AA:1879:C:O5'	2.66	0.44
2:AA:1845:G:C2	2:AA:1896:G:C2	3.06	0.44
2:AA:1913:A:C8	2:AA:1918:A:C6	3.03	0.44
2:AA:2051:A:O4'	2:AA:2051:A:OP2	2.36	0.44
2:AA:2052:G:H5'	5:AE:239:GLY:N	2.15	0.44
2:AA:2100:G:O6	2:AA:2101:G:C6	2.70	0.44
2:AA:2120:G:C2	2:AA:2179:C:N3	2.85	0.44
2:AA:2320:A:P	2:AA:2320:A:H8	2.40	0.44
2:AA:2334:G:C2'	2:AA:2335:A:C5'	2.90	0.44
2:AA:2357:U:H2'	2:AA:2358:G:O5'	2.17	0.44
2:AA:2418:A:C6	2:AA:2419:U:N3	2.86	0.44
2:AA:2584:U:C2'	2:AA:2585:U:C5	3.01	0.44
2:AA:2657:A:C5	2:AA:2664:G:N2	2.85	0.44
2:AA:2682:U:O2	5:AE:61:PRO:HG3	2.17	0.44
2:AA:270(V):G:C5	2:AA:270(W):G:N7	2.85	0.44
2:AA:2711:A:OP1	2:AA:2712:U:O3'	2.35	0.44
2:AA:2779:U:H5''	2:AA:2780:G:C5'	2.46	0.44
2:AA:2873:A:O2'	2:AA:2874:C:P	2.74	0.44
2:AA:298:G:H1	2:AA:338:G:H4'	1.82	0.44
2:AA:325:G:O2'	2:AA:326:G:C5'	2.63	0.44
2:AA:342:G:C2'	2:AA:343:C:H6	2.21	0.44
2:AA:449:A:H4'	2:AA:1248:G:H22	1.82	0.44
2:AA:541:C:C2'	2:AA:542:C:H6	2.22	0.44
2:AA:630:G:N1	2:AA:634:C:N4	2.66	0.44
2:AA:638:G:O2'	2:AA:639:U:C5'	2.57	0.44
2:AA:645:C:OP2	2:AA:2369:A:O4'	2.35	0.44
2:AA:679:C:H2'	2:AA:680:G:O5'	2.18	0.44
2:AA:706:A:C2'	2:AA:707:G:H5'	2.47	0.44
2:AA:71:A:H3'	2:AA:71:A:OP2	2.18	0.44
2:AA:720:C:H2'	2:AA:721:C:O4'	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:917:A:H5''	2:AA:917:A:C8	2.53	0.44
1:AB:29:A:OP1	16:AQ:39:SER:HB3	2.18	0.44
1:AB:45:A:H3'	1:AB:46:A:C8	2.53	0.44
5:AE:173:ARG:O	5:AE:174:LEU:C	2.56	0.44
5:AE:217:TRP:CZ2	5:AE:251:PRO:CB	3.00	0.44
6:AF:154:VAL:O	6:AF:157:LEU:CB	2.64	0.44
6:AF:194:PHE:HE1	6:AF:210:ALA:HA	1.82	0.44
6:AF:20:ASP:O	6:AF:23:GLU:HB2	2.16	0.44
6:AF:245:GLU:N	6:AF:245:GLU:CD	2.71	0.44
6:AF:68:ALA:O	6:AF:69:HIS:CG	2.70	0.44
7:AG:134:LEU:O	7:AG:139:TYR:CE2	2.70	0.44
8:AH:37:HIS:N	8:AH:37:HIS:ND1	2.63	0.44
9:AI:53:GLN:HA	9:AI:128:LYS:NZ	2.31	0.44
9:AJ:110:GLU:O	9:AJ:114:ILE:HG13	2.18	0.44
9:AJ:18:LEU:HD22	9:AJ:44:VAL:HB	1.98	0.44
9:AJ:52:ALA:HB1	9:AJ:58:GLU:CB	2.42	0.44
9:AJ:60:ASP:HB2	9:AJ:128:LYS:CE	2.47	0.44
9:AJ:73:VAL:HG21	9:AJ:122:GLY:C	2.36	0.44
9:AJ:91:LEU:O	9:AJ:92:VAL:C	2.56	0.44
10:AK:10:LYS:HG3	10:AK:11:GLY:N	2.32	0.44
12:AM:108:PRO:HG2	12:AM:109:TYR:CE1	2.51	0.44
13:AN:1:MET:H1	13:AN:32:TYR:HB3	1.72	0.44
14:AO:92:ASP:N	14:AO:118:LEU:CD2	2.80	0.44
14:AO:94:ARG:NE	14:AO:118:LEU:CB	2.76	0.44
15:AP:94:ARG:HA	15:AP:107:LYS:O	2.18	0.44
15:AP:41:THR:CB	15:AP:126:VAL:HA	2.47	0.44
15:AP:130:PRO:O	15:AP:134:PHE:CD2	2.70	0.44
15:AP:57:ARG:C	15:AP:61:LEU:CD1	2.85	0.44
15:AP:65:ARG:C	15:AP:67:ALA:N	2.70	0.44
16:AQ:11:ARG:HG3	16:AQ:12:ARG:CG	2.42	0.44
16:AQ:90:LEU:HG	16:AQ:90:LEU:H	1.53	0.44
19:AT:23:LYS:CA	19:AT:66:VAL:O	2.66	0.44
2:AA:1342:A:H5'	19:AT:53:ASN:OD1	2.17	0.44
20:AU:81:LYS:CD	20:AU:83:ASP:OD1	2.65	0.44
21:AV:16:GLU:OE1	21:AV:16:GLU:HA	2.17	0.44
21:AV:37:LYS:CA	21:AV:40:ASP:CG	2.85	0.44
22:AW:48:GLU:O	22:AW:51:LYS:N	2.51	0.44
36:B1:60:A:H2'	36:B1:61:U:O5'	2.17	0.44
34:BA:1026:G:N7	34:BA:1027:C:C6	2.85	0.44
34:BA:1128:C:N3	34:BA:1144:G:C2	2.86	0.44
34:BA:1193:G:C6	34:BA:1194:U:C5	3.04	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1288:A:C2	34:BA:1352:C:O2	2.68	0.44
34:BA:1236:A:C5'	34:BA:1304:G:H5''	2.45	0.44
34:BA:1237:C:H1'	34:BA:1334:G:H21	1.81	0.44
34:BA:1418:A:N6	34:BA:1483:A:C5	2.85	0.44
34:BA:1523:G:C4	34:BA:1524:C:C5	3.05	0.44
34:BA:147:G:C2	34:BA:176:C:C2	3.05	0.44
34:BA:246:A:HO2'	34:BA:247:G:P	2.41	0.44
34:BA:259:G:C2'	34:BA:260:G:O5'	2.66	0.44
34:BA:291:C:O2	34:BA:292:G:C8	2.70	0.44
34:BA:313:A:C6	34:BA:314:C:N4	2.85	0.44
34:BA:448:A:C5	34:BA:487:A:C2	3.06	0.44
34:BA:483:C:OP2	34:BA:484:G:H2'	2.17	0.44
34:BA:565:U:C6	34:BA:566:G:C8	3.05	0.44
34:BA:606:G:C2	34:BA:631:G:C2	3.05	0.44
34:BA:659:U:O2'	34:BA:660:G:O5'	2.36	0.44
34:BA:731:G:H2'	34:BA:732:C:C6	2.52	0.44
34:BA:775:G:C4	34:BA:776:G:C8	3.04	0.44
34:BA:577:G:C1'	34:BA:816:A:N3	2.79	0.44
34:BA:821:G:O2'	34:BA:822:C:C5'	2.65	0.44
34:BA:872:A:O2'	34:BA:873:A:C3'	2.60	0.44
35:BC:52:U:C2	35:BC:53:G:C8	3.05	0.44
37:BE:19:HIS:O	37:BE:39:ILE:HG23	2.18	0.44
37:BE:75:LYS:HA	37:BE:75:LYS:HD3	1.80	0.44
38:BF:88:ARG:NH2	38:BF:101:LEU:N	2.65	0.44
38:BF:134:ILE:O	38:BF:135:LYS:C	2.55	0.44
38:BF:164:ARG:CG	38:BF:164:ARG:NH1	2.80	0.44
38:BF:29:TYR:CD2	38:BF:29:TYR:C	2.91	0.44
39:BG:170:VAL:CG2	39:BG:176:LEU:HD13	2.47	0.44
40:BH:141:GLN:CB	40:BH:143:ARG:NH2	2.80	0.44
40:BH:149:GLU:O	40:BH:150:ARG:C	2.54	0.44
34:BA:1080:A:H4'	40:BH:16:THR:HB	1.98	0.44
41:BI:45:LEU:HD23	41:BI:59:TYR:N	2.33	0.44
43:BK:109:ILE:CG1	43:BK:137:VAL:O	2.54	0.44
43:BK:21:LYS:O	43:BK:22:GLU:C	2.56	0.44
43:BK:5:PRO:O	43:BK:6:ILE:C	2.55	0.44
46:BN:29:ILE:HG22	46:BN:44:SER:HB3	1.99	0.44
46:BN:63:LEU:HD23	46:BN:63:LEU:HA	1.74	0.44
46:BN:75:TYR:O	46:BN:76:GLY:C	2.56	0.44
47:BO:84:LEU:HB3	47:BO:104:VAL:CG1	2.46	0.44
47:BO:93:LEU:O	47:BO:94:PRO:O	2.36	0.44
48:BP:126:LYS:O	48:BP:126:LYS:HG2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1188:A:H4'	49:BQ:58:LYS:NZ	2.32	0.44
50:BR:11:VAL:O	50:BR:12:ILE:C	2.55	0.44
50:BR:9:GLN:CD	50:BR:12:ILE:HD12	2.35	0.44
41:BI:2:ARG:HH21	50:BR:2:PRO:HD2	1.83	0.44
34:BA:392:G:H5''	51:BS:12:LYS:HZ3	1.82	0.44
51:BS:39:TYR:CE2	51:BS:73:LEU:HD11	2.52	0.44
51:BS:4:ILE:HG13	51:BS:66:PRO:HA	1.99	0.44
51:BS:55:ARG:HH21	51:BS:58:TYR:CB	2.30	0.44
51:BS:9:PHE:CZ	51:BS:18:ARG:NE	2.86	0.44
52:BT:15:MET:CB	52:BT:18:THR:CB	2.93	0.44
41:BI:97:PHE:CD2	53:BU:31:LEU:HD12	2.49	0.44
53:BU:38:GLU:CD	53:BU:38:GLU:N	2.70	0.44
53:BU:51:LEU:H	53:BU:51:LEU:CD1	2.27	0.44
54:BV:15:LEU:CG	54:BV:16:LEU:H	2.29	0.44
56:BX:20:LYS:HD2	56:BX:21:TYR:CE2	2.52	0.44
10:AK:132:LYS:H	10:AK:132:LYS:HG3	1.51	0.44
21:AV:26:LYS:O	21:AV:27:GLU:HB2	2.17	0.44
37:BE:126:GLU:O	37:BE:127:ILE:C	2.55	0.44
5:AE:86:TYR:N	5:AE:86:TYR:CD1	2.86	0.44
25:A1:107:LYS:O	25:A1:108:ALA:C	2.55	0.44
26:A2:15:SER:CB	26:A2:99:GLN:NE2	2.80	0.44
28:A4:35:VAL:CG1	28:A4:36:TRP:N	2.80	0.44
28:A4:57:ASP:HA	28:A4:61:LYS:CE	2.45	0.44
2:AA:372:G:O4'	28:A4:69:ARG:NH2	2.51	0.44
29:A5:40:LYS:HZ3	29:A5:45:ILE:C	2.21	0.44
30:A6:22:TYR:N	30:A6:22:TYR:CD1	2.85	0.44
32:A8:58:MET:O	32:A8:61:MET:HB2	2.17	0.44
2:AA:1000:A:C2	2:AA:1155:A:C5	3.06	0.44
2:AA:1075:C:H2'	2:AA:1075:C:O2	2.17	0.44
2:AA:1057:A:C8	2:AA:1085:A:C2	3.06	0.44
2:AA:1224:G:O2'	2:AA:1225:C:H5'	2.17	0.44
2:AA:1229:G:O6	2:AA:1230:C:O2	2.35	0.44
2:AA:123:G:N2	2:AA:124:G:N3	2.65	0.44
2:AA:1257:C:H2'	2:AA:1258:C:H5'	1.99	0.44
2:AA:1266:G:H2'	2:AA:1267:U:OP2	2.17	0.44
2:AA:1293:C:O2	2:AA:1294:U:C6	2.70	0.44
2:AA:1297:C:P	2:AA:2710:C:H4'	2.58	0.44
2:AA:1314:C:O5'	2:AA:1314:C:H6	2.00	0.44
2:AA:1395:A:C2	2:AA:1398:C:C6	3.05	0.44
2:AA:1423:G:N2	2:AA:1424:G:N3	2.66	0.44
2:AA:1498:C:C2	2:AA:1499:C:C5	3.04	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1525:G:H2'	2:AA:1526:G:H8	1.81	0.44
2:AA:1429:G:O4'	2:AA:1568:G:H1'	2.18	0.44
2:AA:1645:G:C5'	2:AA:1646:C:O4'	2.60	0.44
2:AA:1665:A:N1	2:AA:1666:G:C5	2.85	0.44
2:AA:1666:G:O2'	13:AN:6:SER:HB3	2.18	0.44
2:AA:164:U:C2	2:AA:171:G:H4'	2.45	0.44
2:AA:1835:G:C2	2:AA:1836:C:C5	3.06	0.44
2:AA:1840:G:N2	2:AA:1841:U:C1'	2.81	0.44
2:AA:1901:A:H2'	2:AA:1901:A:N3	2.32	0.44
2:AA:1908:C:O2'	2:AA:1909:C:C5'	2.65	0.44
2:AA:196:A:HO2'	2:AA:197:A:P	2.41	0.44
2:AA:1998:G:C5	2:AA:1999:C:C5	3.06	0.44
2:AA:1650:G:C6	2:AA:2008:C:C2	3.05	0.44
2:AA:200:U:C5	2:AA:201:C:C2	3.06	0.44
2:AA:2006:C:H4'	2:AA:2048:G:H4'	1.99	0.44
2:AA:2126:A:OP2	2:AA:2126:A:O4'	2.36	0.44
2:AA:2215:G:H2'	2:AA:2216:G:O4'	2.18	0.44
2:AA:2239:G:C4	2:AA:2240:C:C5	3.06	0.44
2:AA:2303:G:H4'	7:AG:99:ASP:HB2	1.99	0.44
2:AA:2414:G:C4	2:AA:2415:G:C8	3.06	0.44
2:AA:2391:G:N2	2:AA:2424:C:O2	2.50	0.44
2:AA:2465:C:N3	2:AA:2485:G:C6	2.83	0.44
2:AA:2489:G:C2'	2:AA:2490:G:O4'	2.65	0.44
2:AA:2491:U:H5'	2:AA:2570:G:C4'	2.46	0.44
2:AA:2588:G:O6	2:AA:2589:A:C6	2.70	0.44
2:AA:2618:G:C4	2:AA:2619:C:C5	3.06	0.44
2:AA:2789:C:HO2'	2:AA:2790:A:P	2.40	0.44
2:AA:2795:G:C2'	2:AA:2797:U:O5'	2.66	0.44
2:AA:2805:G:C8	2:AA:2807:G:C1'	3.00	0.44
2:AA:2888:C:N3	2:AA:2889:C:C5	2.85	0.44
2:AA:312:G:OP2	2:AA:332:A:C5'	2.65	0.44
2:AA:329:G:H4'	2:AA:330:A:OP1	2.10	0.44
2:AA:332:A:C5	2:AA:335:C:C4	3.05	0.44
2:AA:342:G:O2'	2:AA:343:C:O4'	2.29	0.44
2:AA:289:A:N7	2:AA:350:U:O4	2.51	0.44
2:AA:459:U:H2'	2:AA:460:A:O5'	2.18	0.44
2:AA:489:G:N1	2:AA:491:G:C5	2.85	0.44
2:AA:535:C:O2'	2:AA:536:A:H5'	2.17	0.44
2:AA:563:G:N1	2:AA:564:C:C2	2.86	0.44
2:AA:583:G:H1	2:AA:1257:C:N4	2.09	0.44
2:AA:607:U:H2'	2:AA:608:A:H8	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:685:A:C6	2:AA:774:A:C2	3.05	0.44
2:AA:722:A:O2'	2:AA:723:G:O5'	2.35	0.44
2:AA:752:A:N1	2:AA:1781:C:O2'	2.46	0.44
2:AA:818:G:N2	2:AA:1190:G:N1	2.66	0.44
2:AA:81:G:O6	2:AA:82:G:C2	2.70	0.44
2:AA:885:C:N3	2:AA:892:G:C2	2.86	0.44
2:AA:939:G:C2'	2:AA:940:G:O5'	2.66	0.44
2:AA:970:C:O2	2:AA:970:C:C2'	2.62	0.44
2:AA:570:G:OP1	2:AA:973:A:OP2	2.36	0.44
1:AB:113:C:O2'	16:AQ:56:ASP:CG	2.54	0.44
1:AB:25:A:C2'	1:AB:26:A:C5'	2.96	0.44
1:AB:32:C:N4	1:AB:51:G:N1	2.66	0.44
1:AB:50:G:N1	1:AB:51:G:C5	2.85	0.44
2:AA:2116:G:P	3:AC:126:LYS:CB	3.03	0.44
3:AC:100:ILE:HG23	3:AC:127:LEU:HG	1.99	0.44
3:AC:56:GLN:O	3:AC:57:ASN:C	2.55	0.44
4:AD:114:GLU:O	4:AD:115:ILE:HG23	2.16	0.44
4:AD:118:GLY:O	4:AD:129:LEU:HD21	2.17	0.44
4:AD:210:LYS:HE2	4:AD:211:HIS:HD2	1.82	0.44
4:AD:65:ASP:C	4:AD:67:LYS:NZ	2.71	0.44
6:AF:193:LEU:HD11	6:AF:231:ARG:CD	2.47	0.44
6:AF:215:ALA:O	6:AF:242:GLU:CG	2.65	0.44
8:AH:43:THR:HG23	8:AH:52:THR:HG23	2.00	0.44
8:AH:66:THR:HG22	8:AH:67:THR:H	1.83	0.44
9:AI:73:VAL:CA	9:AI:121:ALA:HB1	2.35	0.44
11:AL:113:MET:O	11:AL:116:LEU:HB3	2.17	0.44
11:AL:18:ALA:HB1	11:AL:39:CYS:CA	2.48	0.44
12:AM:103:VAL:O	12:AM:104:TYR:CG	2.70	0.44
2:AA:1020:A:O2'	12:AM:49:ARG:NH1	2.50	0.44
15:AP:142:LYS:CE	15:AP:143:VAL:HA	2.41	0.44
15:AP:25:GLY:C	15:AP:27:GLY:H	2.20	0.44
16:AQ:12:ARG:NE	16:AQ:20:TYR:OH	2.51	0.44
17:AR:34:SER:O	17:AR:35:LYS:C	2.54	0.44
18:AS:11:ARG:NE	18:AS:82:LEU:HD21	2.32	0.44
18:AS:45:TYR:O	18:AS:46:PHE:C	2.55	0.44
18:AS:66:GLU:OE2	18:AS:67:ASP:HB3	2.18	0.44
19:AT:46:ASP:HB2	19:AT:47:VAL:H	1.60	0.44
19:AT:55:GLN:HG2	19:AT:56:ASN:O	2.18	0.44
20:AU:31:LEU:CA	20:AU:34:GLU:CD	2.86	0.44
21:AV:20:ALA:HB1	21:AV:32:PHE:CG	2.52	0.44
22:AW:6:GLN:O	22:AW:7:GLU:C	2.56	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AX:37:LEU:HD12	23:AX:43:ILE:HG23	2.00	0.44
23:AX:53:LEU:O	23:AX:54:VAL:HG12	2.18	0.44
34:BA:1085:U:H6	34:BA:1094:G:N2	2.15	0.44
34:BA:1088:G:H2'	34:BA:1088:G:N3	2.32	0.44
34:BA:1104:G:H2'	34:BA:1105:A:C5'	2.48	0.44
34:BA:1267:C:H3'	34:BA:1267:C:C6	2.51	0.44
34:BA:1326:C:C2	34:BA:1327:C:C6	3.05	0.44
34:BA:1336:C:O4'	34:BA:1337:G:C2	2.71	0.44
34:BA:1369:C:H2'	34:BA:1370:G:C8	2.52	0.44
34:BA:1386:G:C2	34:BA:1387:G:C8	3.05	0.44
34:BA:1414:U:C2	34:BA:1415:G:C8	3.05	0.44
34:BA:1419:G:N2	34:BA:1420:C:O2	2.49	0.44
34:BA:133:U:N3	34:BA:230:G:C2	2.86	0.44
34:BA:321:A:N1	34:BA:322:C:C4	2.86	0.44
34:BA:563:A:O2'	34:BA:566:G:C2'	2.66	0.44
34:BA:579:G:C6	34:BA:580:U:C5	3.06	0.44
34:BA:608:A:C2	34:BA:609:A:C1'	3.01	0.44
34:BA:626:U:C2	34:BA:627:G:N7	2.85	0.44
34:BA:650:G:O2'	34:BA:651:C:C5'	2.63	0.44
34:BA:674:G:H4'	53:BU:81:PHE:HZ	1.83	0.44
34:BA:739:C:H2'	34:BA:739:C:O2	2.16	0.44
34:BA:790:A:C6	34:BA:791:G:C5	3.06	0.44
34:BA:89:C:H2'	34:BA:90:U:O4'	2.18	0.44
34:BA:946:A:N3	34:BA:947:G:N7	2.65	0.44
35:BB:2:C:C4	35:BB:71:G:N1	2.80	0.44
38:BF:121:ALA:O	38:BF:122:GLU:C	2.54	0.44
38:BF:34:LEU:CD2	38:BF:34:LEU:C	2.85	0.44
39:BG:9:CYS:O	39:BG:13:ARG:HG2	2.18	0.44
40:BH:56:GLN:O	40:BH:57:LYS:C	2.55	0.44
41:BI:1:MET:SD	41:BI:68:PRO:N	2.91	0.44
42:BJ:85:TYR:O	42:BJ:87:VAL:HG23	2.16	0.44
42:BJ:76:ARG:CG	42:BJ:89:MET:SD	3.05	0.44
43:BK:36:LEU:HA	43:BK:39:LEU:CB	2.43	0.44
43:BK:69:ARG:HG3	43:BK:69:ARG:HH11	1.83	0.44
44:BL:12:GLU:CD	44:BL:12:GLU:N	2.71	0.44
44:BL:5:TYR:CE2	44:BL:18:PHE:CZ	3.06	0.44
46:BN:21:ILE:HA	46:BN:30:VAL:HG22	1.99	0.44
47:BO:36:VAL:O	47:BO:58:VAL:HA	2.17	0.44
48:BP:77:ASN:CB	48:BP:80:ARG:NH1	2.64	0.44
49:BQ:45:ARG:O	49:BQ:49:HIS:HD2	2.00	0.44
50:BR:81:LEU:O	50:BR:84:LYS:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BR:82:ILE:O	50:BR:83:GLU:C	2.55	0.44
51:BS:32:TYR:HE2	51:BS:35:LYS:HD3	1.82	0.44
53:BU:45:SER:OG	53:BU:46:GLU:N	2.50	0.44
54:BV:52:TYR:CZ	54:BV:54:GLY:C	2.91	0.44
55:BW:45:GLN:HG2	55:BW:91:LEU:CD2	2.41	0.44
2:AA:1506:C:N4	2:AA:1507:A:C8	2.86	0.44
23:AX:1:MET:H3	23:AX:2:PRO:HD3	1.80	0.44
2:AA:1040:C:C2	2:AA:1115:G:C2	3.06	0.44
37:BE:28:PHE:O	37:BE:31:TYR:HB2	2.18	0.44
2:AA:2246:G:C2	2:AA:2247:A:C6	3.05	0.44
14:AO:101:ASP:C	14:AO:102:ASP:OD1	2.55	0.44
6:AF:50:GLU:HG3	6:AF:50:GLU:H	1.32	0.44
24:A0:29:LEU:CB	24:A0:75:LEU:HD11	2.48	0.44
24:A0:97:VAL:C	24:A0:98:LEU:CG	2.83	0.44
25:A1:20:ARG:NH1	26:A2:75:LYS:CG	2.81	0.44
26:A2:16:GLU:O	26:A2:18:ASP:N	2.51	0.44
26:A2:49:GLU:CB	26:A2:53:LYS:HD2	2.44	0.44
26:A2:33:VAL:C	26:A2:63:HIS:CE1	2.90	0.44
26:A2:6:GLN:NE2	26:A2:10:LYS:HG2	2.32	0.44
2:AA:2386:C:H1'	27:A3:39:ARG:HH21	1.81	0.44
27:A3:39:ARG:NH1	27:A3:39:ARG:HG2	2.32	0.44
30:A6:19:GLY:CA	30:A6:44:ALA:CB	2.95	0.44
33:A9:25:VAL:HG23	33:A9:34:GLN:HB3	1.99	0.44
2:AA:1164:G:C5	2:AA:1165:U:C5	3.06	0.44
2:AA:1186:G:C2'	2:AA:1187:G:H8	2.29	0.44
2:AA:1189:A:H3'	2:AA:1190:G:C5'	2.47	0.44
2:AA:1255:U:C2'	2:AA:1255:U:O2	2.60	0.44
2:AA:1263:U:C6	2:AA:1264:G:C6	3.06	0.44
2:AA:1399:C:P	19:AT:67:ARG:NH2	2.91	0.44
2:AA:1405:U:HO2'	2:AA:1406:U:C5'	2.31	0.44
2:AA:1408:C:H2'	2:AA:1409:C:C6	2.53	0.44
2:AA:1414:G:C4	2:AA:1415:U:C4	3.06	0.44
2:AA:1500:G:O2'	4:AD:98:GLY:HA3	2.18	0.44
2:AA:1536:A:O2'	2:AA:1537:C:OP1	2.33	0.44
2:AA:1555:G:O4'	2:AA:1555:G:P	2.76	0.44
2:AA:154:G:C6	2:AA:155:C:O2	2.71	0.44
2:AA:1577:C:P	2:AA:1577:C:O4'	2.76	0.44
2:AA:1588:C:O2'	2:AA:1589:C:C5'	2.58	0.44
2:AA:1591:G:C2	2:AA:1592:C:N3	2.86	0.44
2:AA:1642:G:H2'	2:AA:1643:G:O5'	2.18	0.44
2:AA:1668:A:C2	2:AA:1670:C:C4	3.05	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1766:U:H3	2:AA:1986:A:N6	2.16	0.44
2:AA:1848:A:C4	34:BA:702:A:C2	3.06	0.44
2:AA:1935:G:N3	2:AA:1962:C:N3	2.65	0.44
2:AA:1955:U:H2'	2:AA:1956:U:OP1	2.17	0.44
2:AA:1961:C:H2'	2:AA:1962:C:C4'	2.48	0.44
2:AA:1975:G:H2'	2:AA:1976:U:O5'	2.17	0.44
2:AA:1649:G:H1	2:AA:2008:C:H42	1.66	0.44
2:AA:2022:U:O2'	2:AA:2023:G:P	2.75	0.44
2:AA:2033:A:O2'	2:AA:2034:U:OP1	2.36	0.44
2:AA:2049:G:O2'	2:AA:2050:C:OP1	2.36	0.44
2:AA:2054:A:H62	2:AA:2577:A:H61	1.65	0.44
2:AA:2211:G:C8	2:AA:2211:G:O5'	2.70	0.44
2:AA:2234:G:C2'	2:AA:2235:G:H5'	2.47	0.44
2:AA:226:G:C2	2:AA:227:A:C4	3.04	0.44
2:AA:2291:U:H4'	2:AA:2380:C:O2	2.18	0.44
2:AA:2308:G:H5'	2:AA:2309:A:P	2.55	0.44
2:AA:2355:C:N4	2:AA:2362:G:N1	2.22	0.44
2:AA:237:C:C4	2:AA:238:C:H5	2.32	0.44
2:AA:242:G:O2'	2:AA:243:U:OP2	2.35	0.44
2:AA:2457:U:O4	2:AA:2458:G:N1	2.51	0.44
2:AA:2589:A:C5	2:AA:2590:A:C8	3.05	0.44
2:AA:2606:C:O2	2:AA:2607:G:C8	2.71	0.44
2:AA:2653:U:C3'	2:AA:2654:A:C8	2.98	0.44
2:AA:2693:A:C2	2:AA:2717:G:C6	3.05	0.44
2:AA:2698:U:O2	2:AA:2709:G:O6	2.35	0.44
2:AA:270(M):U:C3'	2:AA:270(M):U:O2	2.66	0.44
2:AA:2735:G:N1	2:AA:2736:G:C5	2.86	0.44
2:AA:2747:G:O2'	2:AA:2748:A:H5''	2.18	0.44
2:AA:2795:G:O2'	2:AA:2797:U:C6	2.66	0.44
2:AA:2633:G:C5'	2:AA:2812:G:H5'	2.47	0.44
2:AA:287:C:C2'	2:AA:288:C:H5'	2.48	0.44
2:AA:311:A:C3'	2:AA:312:G:C8	2.99	0.44
2:AA:603:A:N1	2:AA:625:G:C5	2.85	0.44
2:AA:625:G:H3'	2:AA:626:U:C5'	2.47	0.44
2:AA:668:G:C2	2:AA:670:A:C5	3.05	0.44
2:AA:695:G:C2	2:AA:696:G:C8	3.06	0.44
2:AA:699:A:H62	2:AA:733:G:H21	1.65	0.44
2:AA:58:G:C4	2:AA:73:A:C2	3.05	0.44
2:AA:818:G:N7	2:AA:1187:G:C2	2.85	0.44
2:AA:836:G:C6	2:AA:837:C:N3	2.85	0.44
2:AA:940:G:C2	2:AA:941:A:H8	2.34	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:118:G:C2'	1:AB:119:A:O5'	2.65	0.44
1:AB:88:C:O5'	1:AB:88:C:H6	2.00	0.44
3:AC:10:LEU:HA	3:AC:10:LEU:HD12	1.69	0.44
3:AC:148:ASN:CB	3:AC:151:GLU:HB2	2.48	0.44
2:AA:2132:U:OP2	3:AC:5:LYS:HB3	2.18	0.44
4:AD:139:LEU:HD13	4:AD:139:LEU:O	2.14	0.44
4:AD:168:GLY:HA3	4:AD:170:TYR:CZ	2.52	0.44
4:AD:167:GLU:CB	4:AD:170:TYR:HE1	2.11	0.44
2:AA:2218:G:C4'	4:AD:184:LEU:HD13	2.48	0.44
4:AD:68:ARG:HH21	4:AD:190:THR:HG22	1.82	0.44
5:AE:200:ASP:HA	5:AE:266:LYS:HB2	2.00	0.44
5:AE:220:GLN:HE22	5:AE:223:LYS:NZ	2.15	0.44
5:AE:222:ARG:NH2	5:AE:233:ARG:C	2.71	0.44
5:AE:205:THR:CG2	5:AE:259:HIS:N	2.81	0.44
5:AE:315:VAL:O	5:AE:317:PRO:N	2.51	0.44
2:AA:2682:U:O2'	5:AE:61:PRO:HD3	2.18	0.44
5:AE:87:GLU:OE1	5:AE:96:LEU:CB	2.64	0.44
6:AF:34:ALA:O	6:AF:35:VAL:C	2.56	0.44
7:AG:105:SER:OG	7:AG:131:THR:CG2	2.63	0.44
8:AH:106:VAL:O	8:AH:108:TYR:CE2	2.70	0.44
2:AA:2745:C:H2'	8:AH:142:GLU:OE2	2.17	0.44
8:AH:59:HIS:O	8:AH:61:ARG:N	2.51	0.44
9:AI:112:GLU:O	9:AI:116:LYS:HG3	2.18	0.44
9:AJ:74:ILE:CG1	9:AJ:92:VAL:HG11	2.47	0.44
10:AK:8:ASP:O	10:AK:10:LYS:HG2	2.18	0.44
10:AK:7:LYS:HA	10:AK:12:LYS:O	2.18	0.44
10:AK:8:ASP:HB3	10:AK:9:VAL:H	1.35	0.44
11:AL:19:THR:N	11:AL:20:PRO:CD	2.72	0.44
11:AL:73:PRO:CG	11:AL:78:LEU:HD11	2.45	0.44
12:AM:15:ARG:HE	12:AM:40:ASN:CG	2.20	0.44
13:AN:62:VAL:HA	13:AN:84:CYS:SG	2.57	0.44
14:AO:70:ASP:OD2	14:AO:115:ARG:HB2	2.17	0.44
14:AO:54:PRO:O	14:AO:55:GLN:HB2	2.17	0.44
15:AP:82:LYS:HZ3	15:AP:84:ARG:CD	2.31	0.44
16:AQ:32:PRO:CD	16:AQ:101:VAL:HG12	2.45	0.44
17:AR:21:PHE:O	17:AR:22:VAL:HG13	2.17	0.44
18:AS:97:LYS:HB3	18:AS:99:ARG:CD	2.47	0.44
20:AU:77:VAL:CG1	20:AU:91:LEU:HD22	2.48	0.44
21:AV:165:GLU:O	21:AV:166:LEU:HB2	2.17	0.44
21:AV:34:LEU:HD21	21:AV:83:PHE:CZ	2.52	0.44
22:AW:19:GLU:OE2	22:AW:23:LEU:CD1	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AX:52:HIS:O	23:AX:53:LEU:C	2.55	0.44
34:BA:1083:U:C4	34:BA:1084:G:C6	3.06	0.44
34:BA:1154:G:C2	34:BA:1155:G:C5	3.05	0.44
34:BA:119:A:H4'	34:BA:120:A:C8	2.53	0.44
34:BA:1235:U:OP1	56:BX:3:LYS:HD2	2.15	0.44
34:BA:1292:U:OP2	34:BA:1292:U:H3'	2.18	0.44
34:BA:1348:U:O2'	44:BL:120:ARG:HD2	2.18	0.44
34:BA:1355:G:H2'	34:BA:1356:G:O5'	2.18	0.44
34:BA:1360:A:C2	34:BA:1361:G:N3	2.86	0.44
34:BA:1417:G:C5	34:BA:1482:G:O6	2.70	0.44
34:BA:1426:C:C2'	34:BA:1427:U:O5'	2.65	0.44
34:BA:1538:C:H2'	34:BA:1539:C:O4'	2.17	0.44
34:BA:193:C:C2'	34:BA:194:C:C6	2.89	0.44
34:BA:203:U:C4'	34:BA:204:U:OP1	2.65	0.44
34:BA:299:G:C2'	34:BA:300:A:N7	2.76	0.44
34:BA:321:A:N7	34:BA:328:C:C5	2.85	0.44
34:BA:328:C:HO2'	34:BA:329:A:P	2.39	0.44
34:BA:370:C:H2'	34:BA:371:G:C8	2.50	0.44
34:BA:38:G:C5	34:BA:397:A:C2	3.06	0.44
34:BA:43:C:C2	34:BA:44:G:H8	2.32	0.44
34:BA:462:G:N1	34:BA:463:A:C5	2.85	0.44
34:BA:495:U:C2'	34:BA:496:A:O5'	2.66	0.44
34:BA:551:U:H4'	47:BO:119:LYS:HE2	2.00	0.44
34:BA:27:G:N1	34:BA:557:G:C2	2.86	0.44
34:BA:625:G:OP1	51:BS:9:PHE:CB	2.33	0.44
34:BA:591:U:H3	34:BA:648:A:N6	2.13	0.44
34:BA:662:G:N1	34:BA:663:A:C2	2.86	0.44
34:BA:78:G:N1	34:BA:92:C:C4	2.85	0.44
34:BA:881:G:H2'	34:BA:882:C:H6	1.82	0.44
35:BB:51:G:C4	35:BB:52:U:C4	3.06	0.44
35:BB:53:G:C2	35:BB:54:U:C5	3.06	0.44
35:BB:56:C:C5'	35:BB:56:C:H6	2.31	0.44
37:BE:219:VAL:O	37:BE:222:ILE:HG12	2.17	0.44
37:BE:25:ASN:OD1	37:BE:192:SER:O	2.36	0.44
37:BE:97:TRP:HE3	37:BE:172:ILE:HD12	1.81	0.44
38:BF:23:TYR:CZ	45:BM:11:PHE:CE2	3.05	0.44
38:BF:58:GLU:O	38:BF:59:ARG:CB	2.65	0.44
39:BG:104:VAL:HG11	39:BG:146:ILE:CD1	2.48	0.44
39:BG:157:LEU:O	39:BG:160:GLN:HB2	2.18	0.44
34:BA:642:A:C2	43:BK:114:THR:HA	2.53	0.44
43:BK:63:LEU:O	43:BK:64:LYS:HB2	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BL:78:LYS:HE3	44:BL:101:PHE:HE2	1.82	0.44
44:BL:38:GLN:C	44:BL:40:LEU:H	2.19	0.44
44:BL:23:ASN:O	44:BL:57:GLY:C	2.56	0.44
45:BM:27:ALA:HB1	45:BM:81:THR:CG2	2.48	0.44
46:BN:102:GLY:O	46:BN:105:VAL:HG22	2.18	0.44
49:BQ:37:PHE:HB3	49:BQ:39:LEU:HG	1.99	0.44
51:BS:18:ARG:HH11	51:BS:35:LYS:HD3	1.83	0.44
51:BS:26:ARG:HD2	51:BS:31:LYS:N	2.32	0.44
51:BS:53:VAL:O	51:BS:56:ALA:HB3	2.17	0.44
51:BS:78:GLY:C	51:BS:79:VAL:HG23	2.37	0.44
53:BU:51:LEU:HA	53:BU:52:PRO:HD2	1.72	0.44
34:BA:836:G:P	53:BU:61:LYS:HZ3	2.40	0.44
34:BA:1319:A:P	54:BV:5:LEU:HD22	2.57	0.44
54:BV:5:LEU:HD23	54:BV:5:LEU:N	2.32	0.44
55:BW:50:GLU:HB2	55:BW:99:LEU:HB3	2.00	0.44
10:AK:114:LYS:HZ3	10:AK:133:LEU:CD2	2.31	0.44
2:AA:1483:G:C6	2:AA:1484:G:C8	3.06	0.44
2:AA:2246:G:O2'	2:AA:2247:A:O5'	2.36	0.44
9:AJ:23:LYS:O	9:AJ:27:ASP:OD1	2.36	0.44
2:AA:55:G:N3	2:AA:56:A:C8	2.85	0.44
18:AS:56:ALA:O	18:AS:60:ASN:CG	2.56	0.44
12:AM:101:VAL:HG12	12:AM:101:VAL:O	2.17	0.44
2:AA:1650:G:C5'	24:A0:104:ARG:NH2	2.76	0.44
24:A0:114:VAL:CG1	24:A0:115:GLU:N	2.81	0.44
24:A0:50:HIS:ND1	24:A0:54:LEU:HD11	2.32	0.44
25:A1:107:LYS:O	25:A1:110:VAL:N	2.51	0.44
25:A1:47:TYR:CE2	25:A1:50:ARG:NH1	2.86	0.44
26:A2:60:VAL:O	26:A2:98:ILE:O	2.36	0.44
26:A2:65:ARG:HH11	26:A2:94:LYS:NZ	2.10	0.44
27:A3:55:ARG:HB3	27:A3:55:ARG:CZ	2.34	0.44
27:A3:7:VAL:HG22	35:BC:64:A:OP1	2.17	0.44
28:A4:31:ILE:O	28:A4:32:HIS:ND1	2.51	0.44
30:A6:41:ASP:O	30:A6:42:PRO:C	2.56	0.44
31:A7:21:ARG:CZ	31:A7:43:THR:N	2.81	0.44
2:AA:1011:G:N1	2:AA:1150:C:C2	2.78	0.44
2:AA:1014:U:OP1	2:AA:1142:U:O2	2.35	0.44
2:AA:1022:G:O2'	2:AA:1023:U:C5	2.70	0.44
2:AA:1056:G:H21	2:AA:1104:C:N4	2.15	0.44
2:AA:1062:G:O6	2:AA:1077:A:C4	2.70	0.44
2:AA:1077:A:C5	2:AA:1078:U:C2	3.06	0.44
2:AA:1122:G:N2	2:AA:1123:C:C4	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:976:C:C5'	2:AA:1156:A:H61	2.19	0.44
2:AA:1197:G:N1	2:AA:1198:U:C5	2.85	0.44
2:AA:1268:A:C8	2:AA:2013:A:N6	2.86	0.44
2:AA:1309:G:H4'	31:A7:7:PRO:O	2.18	0.44
2:AA:131:G:C2	2:AA:149:A:N1	2.86	0.44
2:AA:1414:G:C5	2:AA:1415:U:O4	2.71	0.44
2:AA:1422:G:C2	2:AA:1423:G:C8	3.05	0.44
2:AA:1451:C:C3'	2:AA:1451:C:C6	3.00	0.44
2:AA:1491:G:H2'	2:AA:1492:G:OP2	2.18	0.44
2:AA:1529:A:N3	2:AA:1530:G:C4'	2.81	0.44
2:AA:1565:C:C4	2:AA:1567:A:C8	3.05	0.44
2:AA:1592:C:O2'	2:AA:1593:G:H5'	2.16	0.44
2:AA:1612:C:H2'	31:A7:3:ARG:CZ	2.43	0.44
2:AA:1614:A:N3	2:AA:1614:A:C2'	2.80	0.44
2:AA:1734:C:H2'	2:AA:1735:C:O4'	2.17	0.44
2:AA:1829:A:H5''	2:AA:1830:C:C5	2.51	0.44
2:AA:1848:A:C6	34:BA:702:A:N1	2.86	0.44
2:AA:1930:G:H3'	2:AA:1930:G:C8	2.53	0.44
2:AA:2000:G:C6	2:AA:2001:A:C6	3.06	0.44
2:AA:2019:A:C2'	2:AA:2020:A:C5'	2.95	0.44
2:AA:2127:G:C5	2:AA:2174:C:C5	3.05	0.44
2:AA:2212:A:H2	2:AA:2213:U:H3'	1.83	0.44
2:AA:2199:A:N3	2:AA:2225:A:H2	2.13	0.44
2:AA:225:A:C2	2:AA:230:U:N3	2.86	0.44
2:AA:2269:A:O2'	2:AA:2270:G:H5'	2.18	0.44
2:AA:2303:G:H2'	2:AA:2304:G:H8	1.81	0.44
2:AA:2333:A:C1'	2:AA:2335:A:N3	2.81	0.44
2:AA:2336:A:O2'	2:AA:2337:G:OP1	2.33	0.44
2:AA:2408:U:O2'	2:AA:2409:G:H5'	2.17	0.44
2:AA:2432:A:C2	2:AA:2433:A:C4	3.06	0.44
2:AA:2462:U:C2	2:AA:2463:C:C5	3.06	0.44
2:AA:2513:G:C6	2:AA:2514:U:C4	3.06	0.44
2:AA:2539:C:H2'	2:AA:2540:C:O5'	2.18	0.44
2:AA:2566:A:O4'	2:AA:2566:A:P	2.76	0.44
2:AA:2636:U:O2'	2:AA:2637:U:O5'	2.36	0.44
2:AA:2657:A:C6	2:AA:2665:A:N7	2.86	0.44
2:AA:2674:G:C6	2:AA:2675:A:C6	3.06	0.44
2:AA:270(T):G:N3	2:AA:270(T):G:H2'	2.33	0.44
2:AA:2740:A:C6	2:AA:2764:A:C4	3.06	0.44
2:AA:2770:G:O2'	5:AE:316:ARG:NH2	2.48	0.44
2:AA:2771:C:C2	2:AA:2772:C:C5	3.06	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2784:C:O2	5:AE:98:GLU:OE1	2.35	0.44
2:AA:2789:C:HO2'	2:AA:2893:G:H22	1.65	0.44
2:AA:303:U:HO2'	2:AA:304:G:H5'	1.82	0.44
2:AA:285:C:C1'	2:AA:356:G:H22	2.30	0.44
2:AA:447:A:C5	2:AA:473:G:N7	2.86	0.44
2:AA:460:A:C6	2:AA:470:A:C8	3.05	0.44
2:AA:462:C:C2'	2:AA:463:G:H5'	2.38	0.44
2:AA:511:U:C4	2:AA:512:G:H1'	2.52	0.44
2:AA:573:G:C2'	2:AA:574:C:O5'	2.66	0.44
2:AA:638:G:C2'	2:AA:639:U:C5'	2.96	0.44
2:AA:770:G:C5'	31:A7:10:ARG:NH1	2.72	0.44
2:AA:783:A:O2'	2:AA:784:A:H5'	2.17	0.44
2:AA:797:C:H3'	2:AA:797:C:C6	2.52	0.44
2:AA:85:G:H2'	2:AA:86:C:C6	2.52	0.44
2:AA:870:A:N6	2:AA:907:U:N3	2.27	0.44
1:AB:96:G:N1	1:AB:97:G:C5	2.85	0.44
3:AC:10:LEU:HD11	3:AC:32:LEU:C	2.37	0.44
3:AC:76:ALA:CB	3:AC:86:ALA:CB	2.88	0.44
4:AD:140:VAL:HA	4:AD:191:VAL:HG12	1.99	0.44
4:AD:143:ILE:CB	4:AD:153:LEU:HB2	2.47	0.44
4:AD:144:GLU:CD	4:AD:148:GLY:H	2.21	0.44
4:AD:66:PHE:O	4:AD:67:LYS:CB	2.66	0.44
5:AE:176:HIS:O	5:AE:179:ASP:N	2.51	0.44
5:AE:213:PRO:O	5:AE:214:VAL:O	2.36	0.44
6:AF:19:PRO:HB2	6:AF:21:VAL:HG23	2.00	0.44
6:AF:38:ALA:HB1	6:AF:221:GLU:HG2	1.97	0.44
6:AF:230:GLY:O	6:AF:231:ARG:HG3	2.17	0.44
6:AF:243:VAL:O	6:AF:244:ALA:C	2.55	0.44
6:AF:38:ALA:HB2	6:AF:221:GLU:CG	2.45	0.44
8:AH:151:ARG:CA	8:AH:161:ILE:HD11	2.48	0.44
8:AH:43:THR:O	8:AH:43:THR:OG1	2.36	0.44
8:AH:41:THR:CA	8:AH:52:THR:OG1	2.66	0.44
8:AH:83:GLU:C	8:AH:83:GLU:OE2	2.56	0.44
9:AJ:63:LEU:HD13	9:AJ:66:PHE:HZ	1.81	0.44
9:AJ:64:LYS:O	9:AJ:65:SER:HB3	2.18	0.44
9:AJ:63:LEU:HB3	9:AJ:95:ALA:HB1	1.99	0.44
11:AL:11:LEU:HD21	11:AL:28:LEU:CD2	2.48	0.44
11:AL:12:GLN:O	11:AL:13:LEU:CD2	2.64	0.44
12:AM:26:VAL:HG11	12:AM:83:ILE:CG2	2.48	0.44
12:AM:5:GLU:O	12:AM:6:PHE:CG	2.71	0.44
13:AN:1:MET:HE3	13:AN:67:ARG:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AO:117:GLU:O	14:AO:118:LEU:CD2	2.52	0.44
16:AQ:104:ILE:C	16:AQ:106:LEU:N	2.71	0.44
16:AQ:49:THR:H	16:AQ:55:ASP:CB	2.31	0.44
17:AR:35:LYS:O	17:AR:36:CYS:C	2.54	0.44
18:AS:69:LEU:HB3	18:AS:107:LEU:HD22	1.99	0.44
18:AS:8:ARG:NH1	18:AS:8:ARG:HB2	2.33	0.44
18:AS:89:ALA:N	18:AS:92:ARG:N	2.66	0.44
2:AA:2012:G:P	18:AS:98:LYS:HZ2	2.41	0.44
19:AT:29:ASP:O	19:AT:30:ASP:OD2	2.36	0.44
20:AU:5:ASP:C	20:AU:7:GLN:N	2.71	0.44
20:AU:63:ILE:CG1	20:AU:75:GLU:OE2	2.66	0.44
20:AU:28:SER:CB	20:AU:99:THR:HG23	2.41	0.44
21:AV:118:HIS:O	21:AV:120:LEU:HD23	2.18	0.44
21:AV:172:LEU:HD23	21:AV:173:PRO:C	2.38	0.44
21:AV:76:ARG:HD2	21:AV:76:ARG:HA	1.86	0.44
21:AV:19:ILE:CD1	21:AV:79:ILE:HG12	2.48	0.44
21:AV:92:VAL:O	21:AV:94:VAL:N	2.51	0.44
34:BA:1005:A:H2'	34:BA:1006:C:C4'	2.48	0.44
34:BA:1043:C:N3	34:BA:1044:A:C8	2.86	0.44
34:BA:1132:C:N3	34:BA:1142:G:N2	2.59	0.44
34:BA:1145:C:O2'	34:BA:1146:A:H8	2.00	0.44
34:BA:1165:C:C5	34:BA:1166:G:C8	3.05	0.44
34:BA:1250:A:C5	34:BA:1251:A:C6	3.06	0.44
34:BA:1261:A:C4	34:BA:1262:C:C5	3.06	0.44
34:BA:1270:C:C4'	34:BA:1313:U:O2'	2.65	0.44
34:BA:127:G:N2	34:BA:235:C:C2	2.85	0.44
34:BA:1291:G:OP1	42:BJ:37:ASN:ND2	2.47	0.44
34:BA:1300:G:H2'	34:BA:1301:U:OP2	2.17	0.44
34:BA:1325:C:H2'	34:BA:1326:C:O5'	2.18	0.44
34:BA:1336:C:H4'	34:BA:1337:G:C2	2.53	0.44
34:BA:1391:U:C2'	34:BA:1392:G:H8	2.25	0.44
34:BA:1402:C:H2'	34:BA:1403:C:C6	2.43	0.44
34:BA:1505:G:C8	34:BA:1505:G:H3'	2.53	0.44
34:BA:1533:C:C2'	34:BA:1534:A:O5'	2.65	0.44
34:BA:203:U:C6	34:BA:203:U:OP2	2.71	0.44
34:BA:241:C:H2'	34:BA:242:C:O5'	2.17	0.44
34:BA:258:G:H2'	34:BA:259:G:H8	1.82	0.44
34:BA:380:G:N2	34:BA:383:A:C8	2.81	0.44
34:BA:484:G:O2'	34:BA:485:G:P	2.76	0.44
34:BA:560:U:P	34:BA:566:G:H22	2.41	0.44
34:BA:582:U:H5'	50:BR:64:ARG:HH21	1.74	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:58:C:C6	34:BA:58:C:C4'	3.00	0.44
34:BA:607:A:H2'	34:BA:608:A:O4'	2.18	0.44
34:BA:656:C:H6	34:BA:656:C:O5'	2.01	0.44
34:BA:686:U:C2'	34:BA:687:A:O5'	2.66	0.44
34:BA:769:G:H22	34:BA:811:C:H1'	1.82	0.44
34:BA:22:G:H4'	34:BA:885:G:C1'	2.47	0.44
34:BA:898:G:N2	34:BA:900:A:H3'	2.33	0.44
34:BA:891:U:C5	34:BA:906:G:C2	3.05	0.44
35:BB:16:U:C2'	35:BB:17:U:OP2	2.66	0.44
34:BA:530:G:N1	35:BB:34:G:N3	2.66	0.44
35:BB:66:A:H5'	35:BB:67:A:OP2	2.18	0.44
35:BB:7:U:H4'	35:BB:8:U:OP2	2.15	0.44
37:BE:12:GLU:OE1	37:BE:209:ARG:NH1	2.45	0.44
37:BE:13:ALA:HA	37:BE:17:PHE:CE2	2.52	0.44
37:BE:168:THR:CB	37:BE:192:SER:HA	2.48	0.44
37:BE:88:ALA:CA	37:BE:219:VAL:HG13	2.46	0.44
38:BF:202:ILE:O	38:BF:204:LEU:CD2	2.65	0.44
38:BF:2:GLY:C	38:BF:3:ASN:OD1	2.56	0.44
39:BG:12:CYS:CB	39:BG:33:MET:SD	2.87	0.44
39:BG:42:GLN:O	39:BG:43:HIS:CG	2.71	0.44
41:BI:46:ARG:O	41:BI:57:GLN:HA	2.18	0.44
41:BI:49:ALA:HB3	53:BU:79:LEU:H	1.82	0.44
41:BI:57:GLN:NE2	41:BI:57:GLN:H	2.15	0.44
41:BI:80:ARG:HA	41:BI:85:VAL:HG11	1.99	0.44
42:BJ:37:ASN:HD22	42:BJ:37:ASN:C	2.17	0.44
43:BK:28:ALA:CB	43:BK:57:PRO:C	2.86	0.44
43:BK:31:PHE:HD2	43:BK:32:LYS:N	2.16	0.44
46:BN:22:HIS:HB3	46:BN:29:ILE:CG1	2.48	0.44
46:BN:62:GLN:OE1	46:BN:63:LEU:CA	2.63	0.44
47:BO:119:LYS:O	47:BO:120:TYR:HB2	2.17	0.44
47:BO:27:LEU:HD23	47:BO:33:ARG:HD3	1.99	0.44
47:BO:59:ARG:CD	47:BO:65:GLU:HG3	2.47	0.44
48:BP:19:LEU:HD13	48:BP:25:ILE:HG21	1.99	0.44
48:BP:64:TRP:HD1	48:BP:65:LYS:H	1.64	0.44
52:BT:62:SER:HG	52:BT:72:ARG:HG3	1.74	0.44
54:BV:16:LEU:O	54:BV:19:VAL:HG13	2.17	0.44
55:BW:40:ALA:HB2	55:BW:55:ILE:CB	2.44	0.44
21:AV:25:ASN:OD1	21:AV:25:ASN:C	2.56	0.44
24:A0:46:GLY:O	24:A0:49:ASP:HB3	2.18	0.44
24:A0:45:ARG:HG3	24:A0:95:THR:CG2	2.48	0.44
25:A1:11:ARG:O	25:A1:12:ARG:C	2.55	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A1:25:TRP:O	25:A1:27:SER:N	2.51	0.44
25:A1:49:ASP:O	25:A1:53:LYS:HG3	2.18	0.44
25:A1:99:ALA:N	25:A1:106:PHE:CD1	2.86	0.44
26:A2:71:ILE:O	26:A2:72:ARG:HG2	2.17	0.44
27:A3:37:LEU:CG	27:A3:71:ASN:HD22	2.31	0.44
27:A3:45:PHE:CE2	27:A3:80:SER:HB2	2.51	0.44
28:A4:17:GLN:CG	28:A4:33:VAL:C	2.78	0.44
28:A4:48:ARG:N	28:A4:52:THR:HG1	2.07	0.44
33:A9:19:ARG:HD2	33:A9:24:LEU:CG	2.47	0.44
2:AA:2527:C:O3'	33:A9:30:VAL:HG11	2.17	0.44
2:AA:1097:U:C2	2:AA:1098:A:O4'	2.70	0.44
2:AA:1138:G:C2'	2:AA:1138:G:N3	2.73	0.44
2:AA:116:C:H2'	2:AA:117:G:O5'	2.18	0.44
2:AA:52:A:C6	2:AA:118:A:C2	3.06	0.44
2:AA:1189:A:N7	2:AA:1190:G:N9	2.66	0.44
2:AA:124:G:C2'	31:A7:19:ARG:NH1	2.81	0.44
2:AA:1274:A:N3	2:AA:1297:C:H1'	2.33	0.44
2:AA:1300:U:H3'	2:AA:1635:G:OP1	2.18	0.44
2:AA:1366:A:OP2	2:AA:1366:A:H8	1.96	0.44
2:AA:1525:G:O2'	2:AA:1526:G:P	2.75	0.44
2:AA:1639:U:H6	2:AA:1639:U:O5'	2.01	0.44
2:AA:1641:A:C6	2:AA:1642:G:C4	3.06	0.44
2:AA:1650:G:H21	2:AA:1651:G:C1'	2.28	0.44
2:AA:1657:C:C2	2:AA:1658:C:C5	3.06	0.44
2:AA:1670:C:H6	2:AA:1670:C:C4'	2.31	0.44
2:AA:1783:A:C6	2:AA:2587:A:H2	2.34	0.44
2:AA:1814:G:C3'	2:AA:1815:A:C8	2.99	0.44
2:AA:1827:C:H5''	2:AA:1971:A:H4'	1.99	0.44
2:AA:1970:A:O2'	2:AA:1971:A:OP2	2.36	0.44
2:AA:1979:C:O2	2:AA:1979:C:C2'	2.66	0.44
2:AA:1999:C:C4	2:AA:2000:G:C8	3.06	0.44
2:AA:1136:G:O4'	2:AA:2038:G:O2'	2.33	0.44
2:AA:2043:C:HO2'	2:AA:2044:C:P	2.41	0.44
2:AA:2121:G:H21	3:AC:168:THR:CG2	2.30	0.44
2:AA:2123:G:O6	2:AA:2175:C:C2	2.71	0.44
2:AA:2184:G:C2	2:AA:2185:C:C2	3.06	0.44
2:AA:2196:C:O2	2:AA:2197:U:O2	2.36	0.44
2:AA:2224:G:C8	2:AA:2224:G:H3'	2.53	0.44
2:AA:2250:G:H5''	2:AA:2250:G:H8	1.83	0.44
2:AA:2376:A:C2'	2:AA:2377:A:O4'	2.66	0.44
2:AA:2415:G:H21	2:AA:2416:C:C1'	2.27	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2484:G:N2	2:AA:2485:G:O4'	2.49	0.44
2:AA:2638:G:N2	2:AA:2776:A:C8	2.86	0.44
2:AA:26:G:N2	2:AA:513:A:N6	2.66	0.44
2:AA:2741:A:OP2	2:AA:2742:C:H5	2.00	0.44
2:AA:285:C:C1'	2:AA:356:G:N2	2.81	0.44
2:AA:2875:C:N4	2:AA:2876:G:C6	2.86	0.44
2:AA:365:C:C6	2:AA:365:C:H3'	2.53	0.44
2:AA:449(A):G:N3	2:AA:1450:C:C6	2.86	0.44
2:AA:675:A:C5	2:AA:676:A:C2	3.05	0.44
2:AA:774:A:C8	2:AA:775:G:N7	2.86	0.44
2:AA:783:A:C8	2:AA:783:A:C3'	3.01	0.44
2:AA:786:C:O5'	2:AA:786:C:H6	2.01	0.44
2:AA:799:G:N7	2:AA:800:A:C2	2.86	0.44
2:AA:832:G:C6	2:AA:833:U:O4	2.71	0.44
2:AA:907:U:N3	2:AA:908:C:H5	2.15	0.44
2:AA:917:A:N3	2:AA:918:A:O4'	2.50	0.44
2:AA:929:G:H2'	23:AX:37:LEU:CD1	2.46	0.44
2:AA:971:C:O2'	2:AA:971:C:O2	2.34	0.44
2:AA:993:G:O4'	26:A2:90:PHE:HE2	2.01	0.44
2:AA:997:G:N3	2:AA:998:C:C6	2.86	0.44
1:AB:116:G:H2'	1:AB:117:G:C1'	2.48	0.44
1:AB:119:A:C8	1:AB:119:A:H3'	2.52	0.44
3:AC:126:LYS:HG3	3:AC:127:LEU:HD23	1.99	0.44
4:AD:162:GLN:C	4:AD:164:LEU:N	2.71	0.44
4:AD:184:LEU:O	4:AD:187:CYS:SG	2.74	0.44
4:AD:210:LYS:CA	4:AD:213:LYS:HE2	2.43	0.44
4:AD:213:LYS:CB	4:AD:215:LYS:O	2.66	0.44
4:AD:83:ASP:N	4:AD:89:ASN:HA	2.19	0.44
5:AE:177:ALA:O	5:AE:181:VAL:CB	2.64	0.44
5:AE:218:GLY:C	5:AE:219:VAL:HG23	2.38	0.44
6:AF:224:ALA:H	6:AF:225:PRO:HD2	1.76	0.44
8:AH:88:LEU:HD21	8:AH:93:TYR:O	2.18	0.44
2:AA:1083:U:H2'	9:AI:37:VAL:HG13	1.99	0.44
9:AI:73:VAL:HG21	9:AI:122:GLY:C	2.38	0.44
9:AJ:77:VAL:HG21	9:AJ:92:VAL:HG22	2.00	0.44
10:AK:7:LYS:CD	10:AK:12:LYS:HZ2	2.30	0.44
11:AL:19:THR:HG23	11:AL:39:CYS:HB2	2.00	0.44
11:AL:78:LEU:O	11:AL:79:LEU:C	2.55	0.44
11:AL:99:LYS:HB3	11:AL:140:VAL:HB	2.00	0.44
12:AM:63:ILE:O	12:AM:71:TYR:CE1	2.71	0.44
13:AN:101:PRO:HB3	13:AN:120:GLU:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:34:ASN:C	13:AN:62:VAL:CG1	2.82	0.44
13:AN:68:GLY:HA2	13:AN:78:ARG:CG	2.41	0.44
13:AN:8:LEU:HB2	13:AN:83:ALA:HA	1.98	0.44
14:AO:52:LYS:HG2	14:AO:53:ARG:CZ	2.48	0.44
15:AP:47:GLU:HG2	15:AP:150:ASP:OD1	2.18	0.44
16:AQ:22:GLN:OE1	16:AQ:22:GLN:CA	2.66	0.44
16:AQ:66:LEU:O	16:AQ:69:TYR:CZ	2.71	0.44
18:AS:29:LEU:HD12	18:AS:33:ARG:HG2	1.99	0.44
19:AT:29:ASP:OD2	19:AT:30:ASP:OD1	2.35	0.44
19:AT:32:ALA:HA	19:AT:36:GLU:CD	2.38	0.44
19:AT:38:ALA:HB1	19:AT:49:VAL:HG22	2.00	0.44
21:AV:98:VAL:CG1	21:AV:99:HIS:N	2.81	0.44
22:AW:27:LEU:HD21	22:AW:49:LEU:HB3	2.00	0.44
23:AX:26:LEU:HD11	23:AX:47:VAL:HG22	1.90	0.44
34:BA:1053:G:C3'	34:BA:1054:C:H5'	2.48	0.44
34:BA:1085:U:H5'	34:BA:1094:G:N2	2.33	0.44
34:BA:1174:G:H2'	34:BA:1175:G:H5'	1.99	0.44
34:BA:1261:A:H3'	34:BA:1262:C:C5	2.53	0.44
34:BA:1400:C:H6	34:BA:1400:C:P	2.39	0.44
34:BA:1402:C:O2'	34:BA:1403:C:H5'	2.17	0.44
34:BA:1430:C:O2'	34:BA:1431:C:C5'	2.66	0.44
34:BA:1436:U:H2'	34:BA:1437:C:H6	1.83	0.44
34:BA:1446:A:O2'	34:BA:1447:G:C5'	2.65	0.44
34:BA:1519:A:H8	34:BA:1519:A:H3'	1.81	0.44
34:BA:181:G:N2	34:BA:195:A:C4	2.86	0.44
34:BA:250:A:H5'	34:BA:252:U:O4'	2.18	0.44
34:BA:246:A:N1	34:BA:279:A:C8	2.86	0.44
34:BA:313:A:C8	34:BA:314:C:H5	2.36	0.44
34:BA:325:A:C2'	34:BA:326:G:H5'	2.48	0.44
34:BA:59:A:N7	34:BA:354:G:C6	2.86	0.44
34:BA:437:U:C5	34:BA:438:G:C8	3.06	0.44
34:BA:462:G:C2	34:BA:463:A:C5	3.05	0.44
34:BA:475:G:N3	34:BA:476:G:N7	2.66	0.44
34:BA:587:G:C2	34:BA:755:G:C5	3.05	0.44
34:BA:590:C:P	43:BK:29:SER:OG	2.75	0.44
34:BA:627:G:OP1	51:BS:38:TYR:HE2	2.00	0.44
34:BA:602:A:C6	34:BA:637:G:C6	3.05	0.44
34:BA:671:G:C6	34:BA:672:U:C4	3.06	0.44
34:BA:787:A:O2'	34:BA:788:U:C5'	2.63	0.44
34:BA:830:G:H2'	34:BA:831:U:H5'	1.99	0.44
34:BA:924:C:H2'	34:BA:925:G:H8	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:970:C:H42	48:BP:126:LYS:HE2	1.80	0.44
37:BE:146:GLN:NE2	37:BE:150:SER:HB2	2.32	0.44
37:BE:15:VAL:HG23	37:BE:16:HIS:N	2.32	0.44
37:BE:44:LEU:O	37:BE:45:GLN:C	2.55	0.44
37:BE:48:MET:CA	37:BE:51:LEU:HD12	2.42	0.44
37:BE:79:ASP:O	37:BE:83:MET:HE2	2.17	0.44
34:BA:1057:G:H1'	38:BF:195:VAL:CG1	2.48	0.44
38:BF:147:LYS:HB3	38:BF:203:PHE:CD2	2.52	0.44
39:BG:132:ARG:CG	39:BG:132:ARG:NH1	2.78	0.44
39:BG:140:VAL:HG11	39:BG:185:PHE:CB	2.47	0.44
34:BA:429:U:C3'	39:BG:22:LYS:NZ	2.80	0.44
39:BG:54:TYR:O	39:BG:56:VAL:N	2.51	0.44
40:BH:65:ASN:HD21	40:BH:136:MET:HE1	1.76	0.44
40:BH:78:HIS:NE2	40:BH:142:LEU:CD2	2.66	0.44
41:BI:96:PRO:C	53:BU:32:ARG:HE	2.21	0.44
42:BJ:104:LEU:HD13	42:BJ:134:ALA:HB3	1.99	0.44
43:BK:35:ILE:CD1	43:BK:134:ILE:HG21	2.48	0.44
44:BL:97:LYS:O	44:BL:100:GLY:CA	2.65	0.44
44:BL:114:TYR:CB	45:BM:60:ARG:NH1	2.69	0.44
44:BL:78:LYS:HE2	44:BL:79:LEU:CD2	2.46	0.44
46:BN:12:ARG:CB	46:BN:75:TYR:CD2	3.01	0.44
47:BO:60:LEU:CD2	47:BO:64:TYR:CB	2.96	0.44
49:BQ:7:ILE:HG22	49:BQ:7:ILE:O	2.18	0.44
50:BR:15:PHE:CZ	50:BR:30:ALA:HB2	2.53	0.44
50:BR:33:THR:HA	50:BR:36:ILE:HB	2.00	0.44
51:BS:22:THR:OG1	51:BS:23:ASP:N	2.49	0.44
51:BS:7:ALA:HB3	51:BS:18:ARG:CB	2.48	0.44
55:BW:42:GLN:O	55:BW:45:GLN:HB2	2.18	0.44
55:BW:58:LYS:O	55:BW:61:SER:HB2	2.18	0.44
10:AK:77:VAL:O	10:AK:144:HIS:CE1	2.71	0.44
10:AK:79:ILE:HA	10:AK:80:PRO:HD3	1.52	0.44
45:BM:66:ARG:CD	45:BM:68:HIS:NE2	2.77	0.44
15:AP:93:ILE:O	15:AP:109:VAL:O	2.35	0.44
24:A0:20:LEU:O	24:A0:22:ARG:N	2.51	0.44
24:A0:20:LEU:CD1	24:A0:21:TYR:N	2.81	0.44
24:A0:27:SER:O	24:A0:30:THR:HB	2.18	0.44
26:A2:2:PHE:O	26:A2:43:GLU:O	2.36	0.44
26:A2:56:VAL:HG12	26:A2:57:GLN:N	2.33	0.44
28:A4:58:LYS:HB3	28:A4:59:PHE:H	1.63	0.44
10:AK:32:LYS:NZ	28:A4:73:LYS:HD3	2.32	0.44
28:A4:5:LEU:CG	28:A4:8:LYS:O	2.64	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:A7:26:SER:O	31:A7:27:GLY:C	2.56	0.44
32:A8:31:HIS:O	32:A8:32:GLN:CG	2.50	0.44
32:A8:64:ARG:HH11	32:A8:64:ARG:HG2	1.83	0.44
33:A9:27:CYS:HB3	33:A9:32:HIS:CG	2.53	0.44
2:AA:1078:U:C5'	2:AA:1079:C:OP1	2.64	0.44
2:AA:1155:A:H2'	2:AA:1157:G:C8	2.53	0.44
2:AA:1173:G:H2'	2:AA:1173:G:N3	2.33	0.44
2:AA:1213:A:H1'	2:AA:1238:G:H1'	2.00	0.44
2:AA:1229:G:C6	2:AA:1230:C:C2	3.06	0.44
2:AA:1269:A:O2'	2:AA:1325:G:O6	2.29	0.44
2:AA:1343:G:N3	2:AA:1384:A:C2	2.79	0.44
2:AA:136:G:P	2:AA:136:G:H8	2.40	0.44
2:AA:1494:A:N6	2:AA:1495:A:N3	2.66	0.44
2:AA:150:C:H2'	2:AA:151:C:H5'	2.00	0.44
2:AA:1559:G:C4	2:AA:1559:G:C3'	2.63	0.44
2:AA:154:G:C4	2:AA:155:C:N1	2.86	0.44
2:AA:1578:U:H3'	2:AA:1579:A:H8	1.83	0.44
2:AA:1632:A:C6	2:AA:1633:G:N1	2.86	0.44
2:AA:742:G:H5'	2:AA:1675:C:O2'	2.18	0.44
2:AA:1678:G:H8	2:AA:1678:G:O5'	2.01	0.44
2:AA:1636:C:C2'	2:AA:1760:A:HO2'	2.29	0.44
2:AA:1807:G:N2	2:AA:1809:A:H5'	2.30	0.44
2:AA:1835:G:N3	2:AA:1931:U:N3	2.66	0.44
2:AA:1903:G:C4	2:AA:1904:G:C8	3.06	0.44
2:AA:1913:A:H61	2:AA:1916:A:C3'	2.30	0.44
2:AA:1917:U:H2'	2:AA:1918:A:O5'	2.16	0.44
2:AA:1945:G:N1	2:AA:1946:U:C4	2.86	0.44
2:AA:2044:C:O2	2:AA:2044:C:C2'	2.65	0.44
2:AA:204:A:O2'	2:AA:205:G:H4'	2.18	0.44
2:AA:2099:U:O2'	2:AA:2100:G:H5'	2.17	0.44
2:AA:2133:G:N3	2:AA:2133:G:C3'	2.80	0.44
2:AA:2178:C:O2	2:AA:2178:C:H2'	2.18	0.44
2:AA:2273:A:C8	2:AA:2274:A:C8	3.06	0.44
2:AA:2283:C:O2	2:AA:2283:C:C2'	2.63	0.44
2:AA:2333:A:O4'	2:AA:2335:A:N3	2.51	0.44
2:AA:233:A:C2'	2:AA:234:C:O5'	2.66	0.44
2:AA:2418:A:H2'	2:AA:2419:U:C6	2.53	0.44
2:AA:241:A:O3'	2:AA:242:G:H4'	2.17	0.44
2:AA:2468:G:C6	2:AA:2481:G:N1	2.86	0.44
2:AA:2478:A:H2'	2:AA:2479:G:O5'	2.17	0.44
2:AA:2509:G:H1	2:AA:2579:C:N4	2.15	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2564:A:C8	2:AA:2648:C:C5'	3.01	0.44
2:AA:2578:G:C2'	2:AA:2579:C:O5'	2.66	0.44
2:AA:2646:C:C2	2:AA:2647:U:C6	3.06	0.44
2:AA:2684:U:H4'	13:AN:76:TYR:CZ	2.53	0.44
2:AA:269:U:O2	2:AA:270:A:N6	2.51	0.44
2:AA:2733:A:H2'	2:AA:2734:A:O4'	2.18	0.44
2:AA:2745:C:N4	2:AA:2746:U:C4	2.86	0.44
2:AA:2754:U:O2	2:AA:2756:U:OP1	2.36	0.44
2:AA:2825:C:C3'	2:AA:2825:C:C6	3.01	0.44
2:AA:285:C:C4	2:AA:286:C:N4	2.86	0.44
2:AA:307:G:H21	2:AA:330:A:H61	1.66	0.44
2:AA:313:C:C5	2:AA:314:A:N7	2.86	0.44
2:AA:39:C:C2	2:AA:40:C:C5	3.06	0.44
2:AA:422:A:N3	2:AA:422:A:C2'	2.69	0.44
2:AA:541:C:OP2	2:AA:541:C:O4'	2.35	0.44
2:AA:1545:A:C2	2:AA:545(A):A:C2	3.06	0.44
2:AA:556:G:O2'	2:AA:557:U:C5'	2.65	0.44
2:AA:619:G:C8	2:AA:619:G:C3'	3.01	0.44
2:AA:646:A:C2	2:AA:647:G:C5	3.06	0.44
2:AA:660:G:N3	2:AA:661:C:C5	2.86	0.44
2:AA:679:C:N3	2:AA:798:G:N2	2.48	0.44
2:AA:688:U:O2'	2:AA:689:A:C5'	2.65	0.44
2:AA:692:C:C4	2:AA:693:C:C5	3.06	0.44
2:AA:714:U:C6	2:AA:714:U:H3'	2.53	0.44
2:AA:741:G:H1	2:AA:756:C:H42	1.65	0.44
2:AA:752:A:C4'	2:AA:753:C:H5'	2.40	0.44
2:AA:752:A:C2'	2:AA:753:C:OP2	2.66	0.44
2:AA:780:G:O5'	2:AA:780:G:H8	2.01	0.44
2:AA:799:G:OP1	2:AA:800:A:C5'	2.64	0.44
2:AA:806:C:H3'	2:AA:806:C:H6	1.82	0.44
2:AA:81:G:C2	2:AA:106:C:N3	2.86	0.44
2:AA:917:A:C8	2:AA:917:A:C5'	3.01	0.44
2:AA:929:G:C8	2:AA:929:G:P	3.11	0.44
2:AA:948:G:N2	2:AA:970:C:H1'	2.33	0.44
2:AA:988:A:C6	23:AX:13:ILE:HG21	2.53	0.44
2:AA:996:A:C6	2:AA:997:G:C5	3.06	0.44
1:AB:9:G:N2	1:AB:10:C:C2	2.86	0.44
3:AC:89:ALA:CB	3:AC:154:ARG:NH1	2.81	0.44
4:AD:120:ASP:O	4:AD:121:ALA:HB2	2.18	0.44
4:AD:74:PRO:HG2	4:AD:96:ALA:N	2.33	0.44
5:AE:107:GLU:HG2	5:AE:110:ARG:NH2	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:208:LYS:CB	5:AE:256:THR:O	2.65	0.44
5:AE:264:LEU:C	5:AE:265:ASN:CG	2.76	0.44
5:AE:43:GLY:O	5:AE:309:PRO:CG	2.65	0.44
6:AF:157:LEU:HD23	6:AF:157:LEU:N	2.32	0.44
6:AF:155:SER:O	6:AF:157:LEU:N	2.51	0.44
2:AA:2306:C:N4	7:AG:53:LYS:HD3	2.33	0.44
8:AH:153:PRO:O	8:AH:154:GLU:C	2.55	0.44
8:AH:60:HIS:HA	8:AH:63:LEU:CB	2.44	0.44
8:AH:70:LEU:O	8:AH:73:ASN:N	2.51	0.44
8:AH:85:ALA:HA	8:AH:131:ILE:HG21	1.91	0.44
8:AH:86:LEU:HD23	8:AH:148:ARG:CG	2.47	0.44
9:AI:61:VAL:HG12	9:AI:102:ILE:HG22	2.00	0.44
9:AI:76:VAL:CG1	9:AI:118:LEU:HD23	2.48	0.44
9:AJ:50:GLY:O	9:AJ:53:GLN:N	2.50	0.44
10:AK:10:LYS:NZ	10:AK:17:GLU:OE2	2.51	0.44
2:AA:2093:G:C5'	10:AK:25:TYR:CD1	2.95	0.44
2:AA:1080:C:O2'	11:AL:127:ILE:N	2.51	0.44
12:AM:60:ARG:O	12:AM:71:TYR:CD2	2.71	0.44
2:AA:2042:A:N6	12:AM:90:LYS:NZ	2.66	0.44
12:AM:87:LEU:CD1	12:AM:98:PHE:CZ	2.97	0.44
13:AN:110:ASP:O	13:AN:111:PHE:CG	2.70	0.44
13:AN:41:ALA:O	13:AN:58:VAL:O	2.36	0.44
15:AP:64:ALA:HA	15:AP:142:LYS:HD3	1.99	0.44
15:AP:145:PRO:O	15:AP:147:VAL:N	2.47	0.44
15:AP:45:GLN:OE1	15:AP:153:PRO:CD	2.66	0.44
15:AP:51:GLU:H	15:AP:51:GLU:CD	2.08	0.44
15:AP:65:ARG:O	15:AP:66:ASN:C	2.56	0.44
16:AQ:32:PRO:HD2	16:AQ:100:ALA:HA	1.97	0.44
16:AQ:67:ALA:O	16:AQ:69:TYR:N	2.50	0.44
16:AQ:87:LEU:H	16:AQ:87:LEU:HD23	1.82	0.44
18:AS:12:ILE:HD13	18:AS:42:ARG:CD	2.48	0.44
18:AS:19:LEU:O	29:A5:25:LEU:CD1	2.63	0.44
2:AA:519:U:O4'	18:AS:75:TYR:HB3	2.17	0.44
19:AT:7:HIS:ND1	19:AT:8:PRO:N	2.66	0.44
20:AU:19:ARG:NH1	20:AU:67:LEU:C	2.71	0.44
11:AL:93:LYS:O	21:AV:109:GLN:HA	2.18	0.44
21:AV:98:VAL:CG2	21:AV:121:GLN:HE22	2.30	0.44
21:AV:148:THR:O	21:AV:149:ALA:C	2.56	0.44
22:AW:13:PRO:O	22:AW:16:ARG:HB2	2.18	0.44
22:AW:9:ARG:HB2	22:AW:59:ILE:CD1	2.47	0.44
34:BA:1033:G:C4	34:BA:1034:G:N7	2.85	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1038:C:O2	34:BA:1039:C:C6	2.71	0.44
34:BA:1084:G:O2'	34:BA:1085:U:P	2.76	0.44
34:BA:1124:G:H21	34:BA:1126:U:H3	1.66	0.44
34:BA:1141:C:H2'	34:BA:1142:G:H8	1.83	0.44
34:BA:1216:G:H2'	34:BA:1217:C:C5	2.52	0.44
34:BA:1380:U:O2'	34:BA:1381:U:P	2.75	0.44
34:BA:146:G:H1	34:BA:176:C:N4	2.13	0.44
34:BA:220:G:C2'	34:BA:221:C:H5'	2.46	0.44
34:BA:140:A:N1	34:BA:224:C:N3	2.66	0.44
34:BA:22:G:C2	34:BA:23:C:C2	3.06	0.44
34:BA:266:G:O2'	34:BA:268:C:OP2	2.36	0.44
34:BA:716:A:H1'	46:BN:118:GLY:HA3	1.99	0.44
34:BA:744:C:H2'	34:BA:745:C:C6	2.53	0.44
34:BA:812:C:HO2'	34:BA:813:U:P	2.41	0.44
34:BA:856:C:C2	34:BA:857:C:C5	3.06	0.44
34:BA:952:U:H5"	34:BA:972:C:N4	2.32	0.44
34:BA:1400:C:C1'	35:BC:34:G:H22	2.23	0.44
37:BE:107:THR:O	37:BE:108:ILE:C	2.54	0.44
37:BE:95:GLN:CB	37:BE:148:TYR:HB3	2.46	0.44
37:BE:36:ARG:O	37:BE:38:GLY:N	2.50	0.44
38:BF:173:VAL:O	38:BF:174:PRO:C	2.56	0.44
38:BF:73:PRO:O	38:BF:74:GLY:C	2.54	0.44
39:BG:105:VAL:HB	39:BG:117:ALA:HB1	2.00	0.44
39:BG:191:ARG:NH2	39:BG:196:LEU:O	2.49	0.44
40:BH:51:VAL:CB	40:BH:52:PRO:CD	2.91	0.44
41:BI:42:GLU:HG3	41:BI:61:LEU:HD23	1.96	0.44
41:BI:52:ILE:CD1	41:BI:87:ARG:NH2	2.81	0.44
42:BJ:15:ASP:HB2	42:BJ:23:VAL:CB	2.47	0.44
42:BJ:22:LEU:HG	42:BJ:62:PHE:HE2	1.83	0.44
43:BK:114:THR:C	43:BK:116:LYS:N	2.67	0.44
43:BK:14:ARG:O	43:BK:18:ARG:CD	2.64	0.44
43:BK:24:THR:N	43:BK:60:ARG:CD	2.81	0.44
43:BK:42:GLU:CD	43:BK:122:ARG:HH22	2.22	0.44
43:BK:54:ASP:C	43:BK:56:LYS:H	2.19	0.44
43:BK:73:ASP:OD2	43:BK:74:PRO:N	2.51	0.44
46:BN:29:ILE:HA	46:BN:44:SER:HB3	2.00	0.44
47:BO:83:VAL:HG22	47:BO:84:LEU:N	2.27	0.44
48:BP:108:ARG:CZ	48:BP:111:LYS:CB	2.94	0.44
48:BP:23:TYR:CE2	48:BP:70:LEU:HD22	2.52	0.44
49:BQ:53:LEU:O	49:BQ:54:PRO:C	2.57	0.44
50:BR:27:VAL:O	50:BR:28:GLN:C	2.55	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BR:53:HIS:CD2	50:BR:57:LEU:HD13	2.52	0.44
50:BR:64:ARG:HG3	50:BR:65:ARG:N	2.32	0.44
52:BT:76:LEU:HD23	52:BT:77:VAL:N	2.32	0.44
53:BU:74:ARG:HB3	53:BU:81:PHE:HD2	1.82	0.44
35:BB:29:A:H2'	35:BB:30:G:H8	1.82	0.44
35:BB:31:A:H61	35:BB:39:U:H3	1.66	0.44
35:BB:37:G:H2'	35:BB:38:A:H8	1.83	0.44
10:AK:135:PRO:O	10:AK:136:GLU:HG3	2.18	0.44
10:AK:64:ASN:H	10:AK:64:ASN:HD22	1.65	0.44
2:AA:1277:G:N3	24:A0:23:ASN:ND2	2.66	0.43
24:A0:67:LEU:O	24:A0:68:ARG:C	2.56	0.43
24:A0:76:VAL:HG12	24:A0:77:ARG:HG2	1.99	0.43
25:A1:46:GLU:HG3	25:A1:46:GLU:H	1.41	0.43
2:AA:855:G:H22	27:A3:26:PHE:HZ	1.65	0.43
27:A3:36:ILE:O	27:A3:37:LEU:CD2	2.66	0.43
2:AA:2021:C:OP2	29:A5:15:LYS:HE3	2.17	0.43
29:A5:46:CYS:CB	29:A5:48:ASN:HD22	2.30	0.43
32:A8:26:LYS:HB2	32:A8:44:LYS:CG	2.48	0.43
2:AA:2528:U:OP1	33:A9:30:VAL:HB	2.18	0.43
2:AA:1021:A:C2	2:AA:1122:G:H4'	2.53	0.43
2:AA:1072:C:H42	2:AA:1100:C:H41	1.66	0.43
2:AA:1173:G:N2	2:AA:1175:U:C3'	2.81	0.43
2:AA:1178:C:H2'	2:AA:1179:C:OP2	2.17	0.43
2:AA:1208:C:C4	2:AA:1209:G:N7	2.86	0.43
2:AA:1224:G:C8	2:AA:1224:G:OP1	2.70	0.43
2:AA:1263:U:C5	2:AA:1264:G:C6	3.06	0.43
2:AA:1342:A:C5	2:AA:1345:C:N4	2.86	0.43
2:AA:1375:C:C4	2:AA:1376:C:C5	3.06	0.43
2:AA:1419:A:N7	2:AA:1421:G:C6	2.86	0.43
2:AA:143:C:C6	2:AA:143:C:H3'	2.51	0.43
2:AA:1451:C:C3'	2:AA:1453:A:C5'	2.95	0.43
2:AA:1446:C:N3	2:AA:1466:G:C2	2.86	0.43
2:AA:1568:G:O4'	2:AA:1568:G:N3	2.50	0.43
2:AA:162:U:O5'	2:AA:171:G:N3	2.51	0.43
2:AA:1637:A:N1	2:AA:1638:C:C4	2.86	0.43
2:AA:1657:C:N3	2:AA:1658:C:C5	2.86	0.43
2:AA:1742:C:C2'	2:AA:1743:G:C1'	2.93	0.43
2:AA:181:A:C5	2:AA:182:A:N7	2.86	0.43
2:AA:1934:C:C2'	2:AA:1935:G:O5'	2.65	0.43
2:AA:2069:G:C6	2:AA:2443:C:N4	2.86	0.43
2:AA:2113:U:OP2	2:AA:2116:G:C2'	2.55	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2192:G:C2	2:AA:2193:G:C8	3.05	0.43
2:AA:2218:G:O2'	4:AD:184:LEU:HD11	2.17	0.43
2:AA:2227:A:C6	2:AA:2228:G:N7	2.86	0.43
2:AA:2266:A:C2	2:AA:2272:U:C5	3.06	0.43
2:AA:2312:U:N3	2:AA:2313:C:N3	2.65	0.43
2:AA:2363:C:C2'	2:AA:2364:C:H5'	2.47	0.43
2:AA:2364:C:H5''	27:A3:38:VAL:HG12	1.99	0.43
2:AA:2376:A:H2'	2:AA:2377:A:O4'	2.18	0.43
2:AA:2404:C:H2'	2:AA:2404:C:O2	2.18	0.43
2:AA:2418:A:C8	2:AA:2419:U:C5	3.06	0.43
2:AA:2538:C:O2	2:AA:2539:C:C6	2.71	0.43
2:AA:2595:G:C2	2:AA:2597:G:P	3.10	0.43
2:AA:2603:G:O2'	2:AA:2604:U:H5'	2.18	0.43
2:AA:260:G:N1	2:AA:261:G:N7	2.66	0.43
2:AA:2620:C:H2'	2:AA:2621:A:H5''	1.99	0.43
2:AA:2650:U:H2'	2:AA:2650:U:O2	2.18	0.43
2:AA:270(G):C:O2	2:AA:270(H):C:C6	2.71	0.43
2:AA:270(I):G:C6	2:AA:270(J):G:C8	3.05	0.43
2:AA:2759:G:C4	2:AA:2760:C:C5	3.06	0.43
2:AA:2804:C:C6	2:AA:2805:G:N1	2.86	0.43
2:AA:319:C:C6	2:AA:320:A:N7	2.86	0.43
2:AA:309:G:C5	2:AA:330:A:C6	3.06	0.43
2:AA:295:G:H3'	2:AA:338:G:H22	1.83	0.43
2:AA:398:G:P	28:A4:58:LYS:HD2	2.57	0.43
2:AA:371:A:C5'	2:AA:423:A:N7	2.81	0.43
2:AA:458:G:H2'	2:AA:469:G:C6	2.53	0.43
2:AA:527:C:C5	2:AA:2779:U:C6	3.06	0.43
2:AA:581:C:H5''	25:A1:32:TYR:CG	2.53	0.43
2:AA:625:G:C3'	2:AA:626:U:C5'	2.95	0.43
2:AA:629:G:C6	2:AA:630:G:C5	3.06	0.43
2:AA:700:G:N1	2:AA:701:G:C5	2.86	0.43
2:AA:713:G:H22	2:AA:714:U:H1'	1.82	0.43
2:AA:740:U:O4	2:AA:758:C:O2	2.36	0.43
2:AA:823:G:N1	2:AA:824:A:C6	2.86	0.43
2:AA:823:G:N1	2:AA:824:A:N6	2.66	0.43
2:AA:852:G:H2'	2:AA:853:G:O5'	2.18	0.43
2:AA:933:A:C2'	2:AA:934:G:C5'	2.96	0.43
2:AA:842:G:N2	2:AA:937:U:C2	2.86	0.43
2:AA:957:A:C5'	2:AA:957:A:H8	2.31	0.43
2:AA:997:G:P	25:A1:93:LYS:HE2	2.58	0.43
1:AB:24:G:H2'	1:AB:27:C:H41	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:133:PRO:CD	3:AC:134:ARG:H	2.30	0.43
3:AC:214:VAL:HG23	3:AC:224:ILE:HD11	2.01	0.43
4:AD:129:LEU:CD2	4:AD:133:ASN:HB2	2.47	0.43
4:AD:170:TYR:CD2	4:AD:170:TYR:N	2.86	0.43
4:AD:179:GLU:C	4:AD:180:VAL:HG22	2.38	0.43
5:AE:292:PRO:O	5:AE:293:TYR:CE2	2.69	0.43
5:AE:268:LEU:CD1	5:AE:296:VAL:HG22	2.48	0.43
6:AF:149:LYS:O	6:AF:152:GLU:CB	2.63	0.43
6:AF:30:LEU:O	6:AF:31:ILE:C	2.56	0.43
2:AA:674:G:C4'	6:AF:69:HIS:HA	2.48	0.43
7:AG:38:GLU:HG2	7:AG:41:LEU:HD12	2.00	0.43
7:AG:96:SER:OG	7:AG:97:GLN:N	2.51	0.43
8:AH:41:THR:C	8:AH:52:THR:HG21	2.38	0.43
9:AJ:60:ASP:OD2	9:AJ:101:VAL:HG21	2.17	0.43
9:AJ:22:VAL:HA	9:AJ:38:ALA:CB	2.48	0.43
9:AJ:53:GLN:HA	9:AJ:128:LYS:NZ	2.32	0.43
10:AK:51:LYS:O	10:AK:52:GLN:C	2.56	0.43
10:AK:8:ASP:C	10:AK:10:LYS:N	2.64	0.43
12:AM:84:ARG:O	12:AM:87:LEU:N	2.50	0.43
13:AN:10:VAL:HG21	13:AN:17:ARG:N	2.33	0.43
15:AP:56:ILE:CD1	15:AP:115:SER:CB	2.80	0.43
15:AP:94:ARG:HG2	15:AP:107:LYS:C	2.32	0.43
16:AQ:60:SER:O	16:AQ:88:ALA:CB	2.66	0.43
16:AQ:72:GLU:O	16:AQ:74:PRO:C	2.56	0.43
18:AS:59:VAL:HG21	18:AS:66:GLU:N	2.33	0.43
18:AS:8:ARG:HD2	18:AS:9:TYR:HD1	1.82	0.43
19:AT:34:LYS:O	19:AT:38:ALA:CB	2.65	0.43
21:AV:51:LEU:HA	21:AV:65:LEU:HD12	1.99	0.43
21:AV:57:GLU:N	21:AV:57:GLU:OE1	2.51	0.43
21:AV:14:LEU:HD21	21:AV:80:HIS:CE1	2.53	0.43
22:AW:20:LEU:HD22	22:AW:20:LEU:HA	1.73	0.43
34:BA:1054:C:OP2	34:BA:1197:G:P	2.75	0.43
34:BA:1056:U:OP1	38:BF:162:GLN:NE2	2.51	0.43
34:BA:1171:G:HO2'	34:BA:1172:C:H6	1.60	0.43
34:BA:1234:C:H4'	34:BA:1364:U:C1'	2.48	0.43
34:BA:1273:G:C2'	34:BA:1274:G:H5'	2.49	0.43
34:BA:1305:G:O4'	34:BA:1305:G:OP2	2.36	0.43
34:BA:1314:C:C4	34:BA:1315:U:O4	2.71	0.43
34:BA:1350:A:N1	34:BA:1372:U:C2	2.86	0.43
34:BA:1355:G:C2'	34:BA:1356:G:O5'	2.66	0.43
34:BA:1374:A:O2'	42:BJ:31:MET:CE	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1422:G:N1	34:BA:1423:G:C5	2.85	0.43
34:BA:1531:A:HO2'	34:BA:1532:U:C1'	2.29	0.43
34:BA:1539:C:O2	34:BA:1539:C:C2'	2.62	0.43
34:BA:16:A:H2'	34:BA:17:U:C5'	2.48	0.43
34:BA:247:G:OP1	52:BT:100:LYS:HG3	2.18	0.43
34:BA:257:G:H1	34:BA:269:C:H42	1.66	0.43
34:BA:34:C:H2'	34:BA:35:G:C8	2.53	0.43
34:BA:440:A:C6	34:BA:495:U:C4	3.05	0.43
34:BA:452:A:C2'	34:BA:453:A:C8	2.89	0.43
34:BA:509:A:C2	34:BA:510:A:C2	3.06	0.43
34:BA:597:G:C5	34:BA:644:G:C2	3.05	0.43
34:BA:620:C:H2'	34:BA:621:A:C4'	2.46	0.43
34:BA:699:C:H2'	34:BA:700:G:H8	1.82	0.43
34:BA:723:U:C2	34:BA:723:U:H3'	2.53	0.43
34:BA:767:A:C2	34:BA:768:A:C4	3.06	0.43
34:BA:841:U:C3'	34:BA:848:C:C5'	2.94	0.43
34:BA:859:A:C2'	34:BA:860:A:O4'	2.60	0.43
34:BA:827:U:C2	34:BA:870:U:O4	2.71	0.43
34:BA:931:C:C2	34:BA:1387:G:C2	3.06	0.43
35:BB:75:C:O2	35:BB:75:C:H2'	2.18	0.43
35:BB:7:U:C4	35:BB:67:A:C6	3.04	0.43
37:BE:118:LEU:C	37:BE:120:ALA:N	2.71	0.43
37:BE:162:ILE:CD1	37:BE:183:PRO:O	2.62	0.43
37:BE:25:ASN:O	37:BE:26:PRO:C	2.57	0.43
38:BF:36:ASP:HA	38:BF:39:ILE:CD1	2.24	0.43
38:BF:6:HIS:ND1	38:BF:7:PRO:HD2	2.33	0.43
39:BG:204:ILE:HD12	39:BG:204:ILE:N	2.30	0.43
43:BK:9:MET:C	43:BK:11:THR:N	2.68	0.43
43:BK:31:PHE:O	43:BK:34:GLU:HB2	2.18	0.43
43:BK:98:LYS:C	43:BK:98:LYS:HZ3	2.20	0.43
44:BL:125:TYR:HE2	44:BL:128:ARG:HH22	1.63	0.43
44:BL:47:LEU:HD11	44:BL:50:LEU:HD12	1.99	0.43
44:BL:66:ARG:C	44:BL:73:GLN:NE2	2.64	0.43
44:BL:75:ASP:O	44:BL:78:LYS:N	2.50	0.43
45:BM:63:PHE:C	49:BQ:59:ALA:HB2	2.39	0.43
46:BN:57:THR:HG23	46:BN:60:ALA:CB	2.47	0.43
47:BO:32:PHE:HB2	47:BO:84:LEU:HD11	2.00	0.43
49:BQ:42:ILE:CG2	49:BQ:46:GLU:OE2	2.65	0.43
52:BT:45:HIS:CE1	52:BT:47:PRO:HA	2.52	0.43
53:BU:61:LYS:HD2	53:BU:64:ARG:HH22	1.83	0.43
55:BW:73:HIS:CD2	55:BW:74:LYS:NZ	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1283:G:C2	2:AA:1285:G:C8	3.06	0.43
25:A1:101:ARG:HG2	25:A1:101:ARG:H	1.53	0.43
25:A1:65:ILE:O	25:A1:66:ASN:C	2.56	0.43
25:A1:93:LYS:CA	26:A2:10:LYS:HZ3	2.31	0.43
26:A2:62:GLU:C	26:A2:95:ILE:CG2	2.86	0.43
27:A3:75:GLY:O	27:A3:76:ALA:CB	2.66	0.43
28:A4:52:THR:O	28:A4:53:GLU:CB	2.64	0.43
32:A8:10:ALA:O	32:A8:14:ILE:CG2	2.66	0.43
32:A8:5:LYS:HE2	32:A8:63:PRO:HG3	1.98	0.43
33:A9:3:VAL:C	33:A9:5:SER:H	2.22	0.43
2:AA:1001:A:H2'	2:AA:1002:G:O4'	2.18	0.43
2:AA:1025:G:H3'	2:AA:1025:G:N3	2.33	0.43
2:AA:1057:A:H2	2:AA:1082:U:H3	1.65	0.43
2:AA:110:G:C6	2:AA:111:A:N6	2.86	0.43
2:AA:1025:G:C8	2:AA:1134:G:H4'	2.52	0.43
2:AA:112:U:C4	2:AA:113:G:C4	3.06	0.43
2:AA:116:C:C2'	2:AA:117:G:O5'	2.67	0.43
2:AA:1170:G:N1	2:AA:1180:C:C4	2.86	0.43
2:AA:1233:C:N3	2:AA:1234:U:C6	2.86	0.43
2:AA:1258:C:C2'	2:AA:1259:G:H5'	2.49	0.43
2:AA:1267:U:H2'	2:AA:1268:A:C5'	2.48	0.43
2:AA:1268:A:C2	2:AA:1269:A:C4	3.06	0.43
2:AA:1333:C:C5'	2:AA:1333:C:C6	2.96	0.43
2:AA:1405:U:O2'	2:AA:1406:U:O5'	2.36	0.43
2:AA:1472:A:C8	2:AA:1473:G:C8	3.05	0.43
2:AA:1538:G:O6	2:AA:1539:G:C6	2.71	0.43
2:AA:1599:C:O5'	2:AA:1599:C:H6	2.01	0.43
2:AA:1661:G:O2'	2:AA:1662:C:C5'	2.63	0.43
2:AA:742:G:C5'	2:AA:1675:C:O2'	2.66	0.43
2:AA:1747:G:N3	2:AA:1748:G:C8	2.86	0.43
2:AA:1758:G:O6	2:AA:2695:C:O3'	2.36	0.43
2:AA:1774:C:HO2'	2:AA:1979:C:HO2'	1.64	0.43
2:AA:1789:A:H4'	4:AD:224:VAL:CG1	2.45	0.43
2:AA:1935:G:N2	2:AA:1962:C:O2'	2.50	0.43
2:AA:1941:C:C2'	2:AA:1942:C:O5'	2.58	0.43
2:AA:1945:G:C2	2:AA:1946:U:C6	3.06	0.43
2:AA:2009:G:O3'	18:AS:41:LYS:HG3	2.18	0.43
2:AA:2046:G:H1'	29:A5:22:HIS:CE1	2.53	0.43
2:AA:2049:G:C6	2:AA:2050:C:N4	2.86	0.43
2:AA:2077:A:N7	2:AA:2238:G:O6	2.51	0.43
2:AA:2082:A:C2'	2:AA:2082:A:N3	2.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2135:A:N7	2:AA:2151:G:OP2	2.52	0.43
2:AA:215:G:C4'	2:AA:216:A:O5'	2.39	0.43
2:AA:2185:C:N4	2:AA:2186:G:O6	2.51	0.43
2:AA:2233:U:O2'	2:AA:2234:G:C5'	2.58	0.43
2:AA:2294:C:H2'	2:AA:2295:C:O5'	2.18	0.43
2:AA:2386:C:H1'	27:A3:39:ARG:NH2	2.32	0.43
2:AA:242:G:H8	32:A8:3:LYS:O	2.00	0.43
2:AA:244:A:N9	2:AA:255:A:N6	2.64	0.43
2:AA:2464:C:N3	2:AA:2486:G:C2	2.77	0.43
2:AA:2640:G:C2	2:AA:2641:G:C8	3.06	0.43
2:AA:2648:C:N3	2:AA:2673:G:C2	2.86	0.43
2:AA:2753:A:H2'	2:AA:2754:U:H6	1.83	0.43
2:AA:2838:G:O2'	2:AA:2839:G:C5'	2.64	0.43
2:AA:319:C:H3'	2:AA:320:A:H8	1.82	0.43
2:AA:439:G:H2'	2:AA:440:G:C8	2.53	0.43
2:AA:467:G:O2'	2:AA:796:C:O2'	2.16	0.43
2:AA:529:A:H2'	2:AA:530:G:OP2	2.18	0.43
2:AA:539:G:N2	2:AA:540:G:C5	2.86	0.43
2:AA:515:A:O4'	2:AA:581:C:C1'	2.66	0.43
2:AA:592:G:HO2'	32:A8:2:PRO:C	2.17	0.43
2:AA:617:G:C8	2:AA:618:G:C8	3.05	0.43
2:AA:668:G:N3	2:AA:670:A:C5	2.86	0.43
2:AA:678:C:C2	2:AA:679:C:C6	3.06	0.43
2:AA:717:G:O6	2:AA:718:A:C5	2.72	0.43
2:AA:729:G:N2	2:AA:1775:U:C1'	2.82	0.43
2:AA:776:G:C4	2:AA:793:A:C6	3.06	0.43
2:AA:819:A:C8	2:AA:819:A:C3'	3.01	0.43
2:AA:83:G:C2'	2:AA:84:A:OP2	2.65	0.43
2:AA:928:G:H2'	2:AA:929:G:N9	2.33	0.43
2:AA:935:C:H2'	2:AA:936:C:H6	1.84	0.43
2:AA:958:U:H6	2:AA:958:U:H3'	1.84	0.43
1:AB:89(A):A:C3'	1:AB:90:C:C5'	2.96	0.43
3:AC:190:ARG:O	3:AC:193:ILE:HB	2.18	0.43
3:AC:72:VAL:O	3:AC:74:VAL:HG23	2.18	0.43
2:AA:1568:G:C3'	4:AD:60:GLN:HG2	2.47	0.43
2:AA:2820:A:O2'	5:AE:207:GLY:O	2.35	0.43
5:AE:218:GLY:O	5:AE:219:VAL:HG23	2.17	0.43
2:AA:1657:C:OP1	5:AE:232:ARG:O	2.36	0.43
2:AA:2734:A:N6	5:AE:316:ARG:NH2	2.53	0.43
5:AE:44:TYR:HB2	5:AE:74:GLU:HG2	2.00	0.43
6:AF:162:VAL:N	6:AF:165:ASP:CG	2.71	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:111:VAL:HG13	6:AF:220:THR:H	1.83	0.43
6:AF:93:LYS:CB	6:AF:95:GLU:O	2.66	0.43
8:AH:107:GLY:C	8:AH:109:SER:H	2.20	0.43
8:AH:116:PRO:CA	8:AH:120:LEU:HD12	2.38	0.43
8:AH:10:ILE:CD1	8:AH:49:ILE:CG1	2.93	0.43
9:AI:23:LYS:HD2	9:AJ:47:ALA:CA	2.49	0.43
9:AJ:26:GLU:C	9:AJ:28:LYS:N	2.71	0.43
10:AK:4:ILE:CD1	10:AK:39:ALA:N	2.82	0.43
11:AL:103:LYS:O	11:AL:104:GLN:C	2.55	0.43
11:AL:15:ALA:O	11:AL:17:LYS:HG3	2.18	0.43
11:AL:18:ALA:O	11:AL:19:THR:CB	2.67	0.43
11:AL:19:THR:HG23	11:AL:39:CYS:HB3	1.99	0.43
13:AN:112:MET:O	13:AN:114:ILE:N	2.51	0.43
13:AN:17:ARG:HH12	13:AN:54:LYS:HZ3	1.65	0.43
14:AO:132:LYS:O	14:AO:133:VAL:C	2.54	0.43
15:AP:63:ALA:C	15:AP:70:ARG:HH22	2.21	0.43
15:AP:67:ALA:HA	15:AP:70:ARG:NH1	2.33	0.43
16:AQ:21:HIS:C	16:AQ:23:ARG:H	2.21	0.43
2:AA:84:A:P	20:AU:111:ARG:HH12	2.38	0.43
20:AU:15:PRO:C	20:AU:17:HIS:N	2.69	0.43
20:AU:87:VAL:CG1	20:AU:88:PRO:N	2.81	0.43
20:AU:49:GLU:O	20:AU:97:ARG:CD	2.66	0.43
20:AU:51:LEU:CB	20:AU:97:ARG:HE	2.30	0.43
21:AV:63:PRO:O	21:AV:64:ALA:CB	2.66	0.43
21:AV:79:ILE:HG22	21:AV:80:HIS:CG	2.53	0.43
22:AW:57:LYS:O	22:AW:58:THR:C	2.56	0.43
2:AA:932:G:C5'	23:AX:24:LYS:HZ1	2.27	0.43
23:AX:4:LEU:HD23	23:AX:4:LEU:N	2.33	0.43
36:B1:61:U:N3	36:B1:62:G:C8	2.86	0.43
35:BC:35:A:C2	36:B1:62:G:C5	3.06	0.43
34:BA:1051:C:H3'	34:BA:1052:U:C6	2.53	0.43
34:BA:1134:G:H1	34:BA:1140:C:H42	0.56	0.43
34:BA:122:G:O2'	34:BA:123:C:H5'	2.18	0.43
34:BA:1277:C:O4'	34:BA:1282:C:H1'	2.18	0.43
34:BA:1414:U:O2'	34:BA:1415:G:C5'	2.66	0.43
34:BA:1433:A:H2'	34:BA:1434:A:C5'	2.48	0.43
34:BA:1505:G:H8	34:BA:1505:G:H3'	1.83	0.43
34:BA:1533:C:O2'	34:BA:1535:C:H5	1.99	0.43
34:BA:66:G:C4'	34:BA:173:U:C4	3.01	0.43
34:BA:325:A:C8	34:BA:326:G:N7	2.86	0.43
34:BA:34:C:N3	34:BA:35:G:N7	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:394:G:C5	34:BA:395:C:N4	2.86	0.43
34:BA:432:A:H2'	34:BA:433:C:O4'	2.18	0.43
34:BA:442:C:N3	34:BA:443:C:C6	2.86	0.43
34:BA:443:C:N3	34:BA:491:G:N2	2.61	0.43
34:BA:485:G:O2'	34:BA:486:U:C6	2.71	0.43
34:BA:529:G:C8	34:BA:529:G:C3'	3.01	0.43
34:BA:585:G:C2	34:BA:586:C:C2	3.06	0.43
34:BA:596:C:O2	34:BA:596:C:C2'	2.66	0.43
34:BA:643:C:N3	34:BA:644:G:N7	2.66	0.43
34:BA:671:G:N3	34:BA:671:G:C2'	2.79	0.43
34:BA:720:C:N4	34:BA:721:G:N3	2.65	0.43
34:BA:728:A:C6	34:BA:729:A:C6	3.06	0.43
34:BA:744:C:C2	34:BA:745:C:C5	3.06	0.43
34:BA:858:G:C6	34:BA:869:G:C8	3.06	0.43
34:BA:883:C:N3	34:BA:884:U:C4	2.87	0.43
34:BA:97:G:O2'	34:BA:98:U:H5'	2.18	0.43
34:BA:997:U:C4	34:BA:998:G:N7	2.86	0.43
2:AA:1909:C:O2'	35:BC:11:C:H4'	2.18	0.43
35:BC:7:U:HO2'	35:BC:8:U:P	2.41	0.43
37:BE:219:VAL:HG12	37:BE:223:ILE:HD11	2.00	0.43
37:BE:48:MET:CG	37:BE:51:LEU:HD12	2.48	0.43
38:BF:23:TYR:HD2	38:BF:24:ALA:H	1.62	0.43
38:BF:70:VAL:HG12	38:BF:71:ALA:N	2.33	0.43
39:BG:100:ARG:HB2	39:BG:103:ASN:CB	2.49	0.43
39:BG:56:VAL:CG1	39:BG:57:ARG:HD2	2.47	0.43
41:BI:23:LYS:NZ	41:BI:42:GLU:OE1	2.52	0.43
41:BI:80:ARG:CA	41:BI:88:VAL:HG21	2.48	0.43
42:BJ:146:GLU:CD	42:BJ:146:GLU:C	2.77	0.43
42:BJ:36:LYS:CB	42:BJ:36:LYS:NZ	2.75	0.43
43:BK:4:ASP:O	43:BK:7:ALA:HB3	2.18	0.43
44:BL:101:PHE:N	44:BL:102:LEU:HD23	2.33	0.43
45:BM:9:ARG:O	45:BM:94:VAL:CG1	2.65	0.43
46:BN:15:ALA:HA	46:BN:78:GLN:HE22	1.74	0.43
34:BA:706:A:H4'	46:BN:22:HIS:ND1	2.33	0.43
47:BO:24:VAL:HG22	47:BO:98:TYR:OH	2.18	0.43
48:BP:55:ARG:NH2	48:BP:56:LEU:CD2	2.66	0.43
48:BP:92:HIS:CE1	48:BP:98:VAL:HB	2.53	0.43
49:BQ:25:VAL:CG1	49:BQ:38:GLY:O	2.66	0.43
50:BR:3:ILE:CA	50:BR:38:ARG:HH21	2.30	0.43
50:BR:39:LEU:HD22	50:BR:56:LEU:HD22	1.93	0.43
50:BR:81:LEU:C	50:BR:81:LEU:CD2	2.85	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:5:VAL:HG13	52:BT:59:ILE:H	1.82	0.43
54:BV:32:LYS:O	54:BV:57:HIS:CE1	2.71	0.43
55:BW:50:GLU:HA	55:BW:100:ILE:HG13	1.99	0.43
35:BB:26:G:N1	35:BB:27:C:N1	2.66	0.43
35:BB:41:U:H3'	35:BB:42:G:O4'	2.18	0.43
2:AA:1484:G:H2'	2:AA:1485:G:OP2	2.18	0.43
9:AJ:1:MET:N	9:AJ:5:GLU:OE1	2.50	0.43
2:AA:1283:G:N2	2:AA:1285:G:C8	2.86	0.43
2:AA:363(F):A:H2'	2:AA:363(F):A:N3	2.33	0.43
24:A0:100:LEU:O	29:A5:44:HIS:CD2	2.71	0.43
25:A1:58:ARG:O	25:A1:62:ILE:CG1	2.59	0.43
26:A2:88:GLN:O	26:A2:89:ASN:CG	2.56	0.43
27:A3:25:LYS:HG2	27:A3:59:LEU:H	1.82	0.43
28:A4:10:VAL:H	28:A4:11:PRO:HD3	1.83	0.43
28:A4:39:VAL:O	28:A4:40:HIS:CG	2.70	0.43
28:A4:59:PHE:N	28:A4:62:ARG:NE	2.66	0.43
2:AA:2046:G:OP1	29:A5:19:ARG:N	2.51	0.43
2:AA:2347:C:C4'	30:A6:40:TYR:OH	2.59	0.43
2:AA:126:A:H5''	31:A7:18:PHE:HD1	1.83	0.43
2:AA:682:G:H5'	31:A7:26:SER:HB3	2.00	0.43
2:AA:1022:G:N1	2:AA:1139:G:C2	2.86	0.43
2:AA:1221:C:H2'	2:AA:1222:C:O5'	2.17	0.43
2:AA:1233:C:C2'	2:AA:1234:U:C5'	2.96	0.43
2:AA:1298:C:C5'	2:AA:1302:A:N6	2.81	0.43
2:AA:1301:A:O2'	2:AA:1302:A:P	2.77	0.43
2:AA:1320:C:H42	2:AA:1330:C:N4	2.15	0.43
2:AA:1324:G:N2	2:AA:1328:G:N2	2.63	0.43
2:AA:1356:G:N2	2:AA:1357:U:C2	2.86	0.43
2:AA:1379:A:N3	2:AA:1379:A:H2'	2.32	0.43
2:AA:137(A):G:C8	2:AA:138:G:C6	3.07	0.43
2:AA:1497:U:O4	2:AA:1498:C:H5	2.00	0.43
2:AA:1526:G:O3'	2:AA:1527:G:O4'	2.37	0.43
2:AA:1534:G:H21	2:AA:1535:U:C5'	2.27	0.43
2:AA:1559:G:C6	2:AA:1560:G:O5'	2.70	0.43
2:AA:1625:C:C2'	2:AA:1626:G:H5'	2.45	0.43
2:AA:1663:C:H6	2:AA:1663:C:H3'	1.83	0.43
2:AA:1689:A:C2	2:AA:1690:A:N7	2.86	0.43
2:AA:164:U:H2'	2:AA:171:G:C5'	2.49	0.43
2:AA:1730:U:O2'	2:AA:1731:G:C8	2.70	0.43
2:AA:1785:A:C8	2:AA:1785:A:C4'	3.01	0.43
2:AA:1787:A:C2	2:AA:1788:C:C2	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1878:G:H2'	2:AA:1879:C:O5'	2.19	0.43
2:AA:1917:U:C5	2:AA:1918:A:C8	3.06	0.43
2:AA:1927:A:C5	2:AA:1928:A:C2	3.06	0.43
2:AA:1939:U:O2'	2:AA:1940:U:OP1	2.26	0.43
2:AA:1978:A:N6	2:AA:1979:C:N4	2.66	0.43
2:AA:1769:G:C6	2:AA:1984:G:O6	2.71	0.43
2:AA:2008:C:N4	2:AA:2009:G:O6	2.51	0.43
2:AA:2021:C:OP2	29:A5:15:LYS:CE	2.66	0.43
2:AA:2040:C:C2	2:AA:2041:U:C6	3.07	0.43
2:AA:2044:C:H3'	2:AA:2044:C:OP2	2.18	0.43
2:AA:2056:G:N7	2:AA:2577:A:C4	2.87	0.43
2:AA:2074:U:C2	2:AA:2075:U:C5	3.07	0.43
2:AA:2075:U:O2'	2:AA:2076:U:H3'	2.17	0.43
2:AA:2124:G:C5'	2:AA:2125:G:OP2	2.67	0.43
2:AA:2131:G:H5''	3:AC:6:ARG:HB3	1.98	0.43
2:AA:215:G:O2'	2:AA:216:A:P	2.76	0.43
2:AA:2199:A:OP2	2:AA:2205:C:H5	2.00	0.43
2:AA:2228:G:C5	2:AA:2229:C:C2	3.06	0.43
2:AA:2232:U:O2'	2:AA:2233:U:C5'	2.56	0.43
2:AA:2235:G:HO2'	2:AA:2236:C:C5'	2.31	0.43
2:AA:2300:G:C2'	2:AA:2301:C:H5'	2.48	0.43
2:AA:2312:U:O2	7:AG:72:LYS:NZ	2.50	0.43
2:AA:234:C:H2'	2:AA:235:U:C5'	2.48	0.43
2:AA:2379:G:C2	2:AA:2380:C:C2	3.06	0.43
2:AA:2259:G:O4'	2:AA:2427:C:C5	2.72	0.43
2:AA:2524:G:H2'	2:AA:2525:G:O4'	2.18	0.43
2:AA:2552:U:N3	2:AA:2554:U:H5'	2.33	0.43
2:AA:2562:U:O4	2:AA:2563:U:C4	2.71	0.43
2:AA:2588:G:N2	2:AA:2607:G:C4	2.86	0.43
2:AA:2682:U:C4	2:AA:2683:C:C5	3.06	0.43
2:AA:25:U:C6	2:AA:26:G:N7	2.86	0.43
2:AA:2758:A:N9	2:AA:2758:A:OP2	2.51	0.43
2:AA:2794:C:C2	2:AA:2802:G:N2	2.84	0.43
2:AA:2811:G:O2'	2:AA:2812:G:C5'	2.66	0.43
2:AA:292:C:N3	2:AA:348:G:C6	2.84	0.43
2:AA:297:C:C4	2:AA:298:G:N3	2.86	0.43
2:AA:311:A:O5'	2:AA:312:G:N7	2.52	0.43
2:AA:298:G:O6	2:AA:338:G:H4'	2.17	0.43
2:AA:371:A:C2'	2:AA:372:G:N7	2.74	0.43
2:AA:413:C:N4	2:AA:2410:G:N1	2.66	0.43
2:AA:421:U:OP2	2:AA:421:U:H6	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:370:G:C6	2:AA:424:G:N7	2.87	0.43
2:AA:444(A):A:H2'	2:AA:1460:A:HO2'	1.83	0.43
2:AA:462:C:O5'	2:AA:462:C:H6	2.01	0.43
2:AA:502:A:C8	2:AA:502:A:C3'	3.01	0.43
2:AA:583:G:O5'	2:AA:583:G:H8	2.01	0.43
2:AA:607:U:H5'	2:AA:608:A:OP2	2.18	0.43
2:AA:636:G:H5'	2:AA:639:U:OP1	2.18	0.43
2:AA:711:G:N2	2:AA:720:C:C2	2.83	0.43
2:AA:721:C:C4	2:AA:722:A:N7	2.86	0.43
2:AA:729:G:H1'	2:AA:763:G:C4'	2.46	0.43
2:AA:799:G:C6	2:AA:800:A:C6	3.07	0.43
2:AA:810:U:OP1	2:AA:1253:A:C8	2.71	0.43
2:AA:831:G:N1	2:AA:832:G:N3	2.66	0.43
2:AA:850:C:H5''	23:AX:18:ASP:CB	2.46	0.43
2:AA:920:G:N2	2:AA:921:G:C4	2.87	0.43
2:AA:979:G:C4	2:AA:982:C:N4	2.86	0.43
2:AA:97:C:C2'	2:AA:98:G:O5'	2.66	0.43
1:AB:17:C:N4	1:AB:68:C:H42	2.16	0.43
1:AB:70:C:C4	1:AB:71:C:H5	2.37	0.43
1:AB:9:G:C6	1:AB:112:G:N7	2.86	0.43
3:AC:103:ILE:CG2	3:AC:130:ILE:CG2	2.95	0.43
3:AC:156:ILE:O	3:AC:157:LYS:HB2	2.18	0.43
2:AA:2132:U:OP2	3:AC:5:LYS:CA	2.66	0.43
2:AA:2174:C:OP2	3:AC:7:TYR:HE2	2.01	0.43
4:AD:154:VAL:HG13	4:AD:157:ALA:O	2.18	0.43
4:AD:194:VAL:HG21	4:AD:196:ASN:HD21	1.78	0.43
4:AD:71:ASP:CB	4:AD:119:PRO:HD2	2.48	0.43
2:AA:744:G:OP1	5:AE:229:GLN:O	2.37	0.43
5:AE:44:TYR:HB2	5:AE:74:GLU:CG	2.48	0.43
5:AE:61:PRO:HB3	5:AE:69:PRO:HB3	1.97	0.43
5:AE:73:ILE:HG22	5:AE:74:GLU:N	2.34	0.43
6:AF:141:SER:OG	6:AF:144:PHE:HE1	2.01	0.43
6:AF:231:ARG:O	6:AF:232:LEU:CG	2.66	0.43
6:AF:240:LEU:HD22	6:AF:243:VAL:HG21	2.00	0.43
7:AG:141:VAL:CA	7:AG:144:ARG:HH11	2.30	0.43
2:AA:2314:C:C5'	7:AG:22:VAL:HG11	2.37	0.43
7:AG:87:ALA:O	7:AG:88:LEU:C	2.54	0.43
8:AH:30:GLY:HA3	8:AH:78:VAL:O	2.18	0.43
8:AH:57:GLU:HG2	8:AH:57:GLU:H	1.62	0.43
9:AI:64:LYS:O	9:AI:65:SER:HB3	2.18	0.43
9:AJ:106:VAL:CG1	9:AJ:110:GLU:CB	2.95	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:64:LYS:HE2	9:AJ:125:VAL:C	2.38	0.43
10:AK:40:THR:O	10:AK:42:ALA:N	2.51	0.43
10:AK:47:LEU:CD1	10:AK:48:GLU:N	2.81	0.43
11:AL:125:MET:O	11:AL:128:ILE:CB	2.59	0.43
12:AM:44:ALA:HB3	12:AM:132:LEU:HB3	2.00	0.43
12:AM:75:PRO:HG2	12:AM:76:ASP:OD2	2.18	0.43
13:AN:114:ILE:O	13:AN:115:ILE:C	2.56	0.43
13:AN:49:GLY:CA	13:AN:53:LYS:HG2	2.48	0.43
14:AO:62:ALA:CB	14:AO:104:ASP:O	2.66	0.43
14:AO:77:ALA:HA	14:AO:81:VAL:CG1	2.48	0.43
14:AO:94:ARG:HD3	14:AO:120:LEU:CA	2.48	0.43
15:AP:135:ALA:HA	15:AP:138:ARG:HD2	1.99	0.43
15:AP:48:ASN:ND2	15:AP:122:PHE:O	2.52	0.43
16:AQ:34:LEU:HD23	16:AQ:101:VAL:N	2.33	0.43
16:AQ:10:MET:O	16:AQ:11:ARG:C	2.57	0.43
16:AQ:22:GLN:CA	16:AQ:25:ARG:HB3	2.47	0.43
16:AQ:49:THR:O	16:AQ:52:PRO:C	2.56	0.43
16:AQ:47:LEU:CD1	16:AQ:58:LEU:HD21	2.46	0.43
18:AS:19:LEU:HD22	29:A5:25:LEU:CB	2.47	0.43
20:AU:47:THR:O	20:AU:98:VAL:HG13	2.17	0.43
21:AV:19:ILE:CG1	21:AV:79:ILE:HA	2.43	0.43
22:AW:19:GLU:HG2	22:AW:23:LEU:HD21	2.00	0.43
22:AW:2:VAL:N	22:AW:4:HIS:HE1	2.16	0.43
2:AA:76:C:H4'	22:AW:55:ARG:CG	2.48	0.43
23:AX:42:ALA:HB3	23:AX:43:ILE:CD1	2.47	0.43
34:BA:102:G:H2'	34:BA:103:C:H6	1.83	0.43
34:BA:1052:U:H3	34:BA:1207:G:H1	1.59	0.43
34:BA:1076:C:C4	34:BA:1082:G:N1	2.85	0.43
34:BA:1114:C:C2	34:BA:1187:G:C2	3.07	0.43
34:BA:1281:U:O2'	34:BA:1282:C:OP1	2.32	0.43
34:BA:1292:U:O2'	34:BA:1293:G:H5'	2.18	0.43
34:BA:1329:A:C5'	48:BP:29:ARG:CG	2.95	0.43
34:BA:1334:G:H2'	34:BA:1335:C:O5'	2.18	0.43
34:BA:134:A:H1'	34:BA:325:A:C6	2.53	0.43
34:BA:1386:G:C6	34:BA:1387:G:N7	2.87	0.43
34:BA:145:G:O2'	34:BA:146:G:H5'	2.19	0.43
34:BA:1500:A:OP1	34:BA:1505:G:OP1	2.36	0.43
34:BA:149:A:C2	34:BA:150:C:C2	3.06	0.43
34:BA:163:C:O2'	34:BA:164:U:O4'	2.37	0.43
34:BA:68:G:H5'	34:BA:171:A:O2'	2.18	0.43
34:BA:191:G:C4	34:BA:192:U:C5	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:197:A:H62	34:BA:221:C:C5'	2.30	0.43
34:BA:229:U:C4	34:BA:230:G:C5	3.06	0.43
34:BA:311:C:C2	34:BA:312:C:C6	3.07	0.43
34:BA:444:C:C2	34:BA:491:G:N2	2.86	0.43
34:BA:445:G:H8	34:BA:445:G:O5'	2.01	0.43
34:BA:37:U:H5'	34:BA:501:C:OP1	2.19	0.43
34:BA:564:C:OP2	34:BA:565:U:OP2	2.36	0.43
34:BA:597:G:C5	34:BA:598:U:C6	3.06	0.43
34:BA:609:A:O2'	34:BA:610:G:C5'	2.67	0.43
34:BA:626:U:C2'	34:BA:627:G:C8	2.83	0.43
34:BA:627:G:C2'	34:BA:628:G:O5'	2.67	0.43
34:BA:645:C:C4	34:BA:646:U:C4	3.06	0.43
34:BA:682:G:H1	34:BA:708:C:H42	1.67	0.43
34:BA:720:C:OP2	34:BA:720:C:C5	2.70	0.43
34:BA:778:G:C2	34:BA:779:C:C5	3.07	0.43
34:BA:766:A:C8	34:BA:814:A:C6	3.04	0.43
34:BA:821:G:C4	34:BA:822:C:C6	3.06	0.43
34:BA:84:U:O2'	34:BA:88:A:H5'	2.18	0.43
34:BA:922:G:C2	34:BA:923:A:C4	3.06	0.43
34:BA:950:U:N3	34:BA:951:G:C8	2.86	0.43
34:BA:964:A:H5'	34:BA:1199:U:OP1	2.19	0.43
34:BA:981:U:C6	34:BA:981:U:C3'	3.02	0.43
34:BA:98:U:O2'	34:BA:99:C:C5'	2.65	0.43
35:BB:57:G:O2'	35:BB:58:A:H5''	2.17	0.43
37:BE:208:ILE:CA	37:BE:211:ILE:HB	2.47	0.43
37:BE:215:LEU:HD22	37:BE:215:LEU:HA	1.50	0.43
38:BF:122:GLU:O	38:BF:125:GLU:CB	2.63	0.43
38:BF:180:ALA:O	38:BF:181:ASN:HB3	2.18	0.43
38:BF:35:GLU:O	38:BF:38:ARG:N	2.51	0.43
39:BG:125:HIS:ND1	39:BG:125:HIS:N	2.65	0.43
39:BG:170:VAL:CG1	39:BG:174:LEU:HB2	2.48	0.43
39:BG:189:PRO:HB2	39:BG:194:LEU:HD21	1.99	0.43
39:BG:34:GLU:O	39:BG:35:ARG:CB	2.66	0.43
39:BG:70:ILE:O	39:BG:71:SER:O	2.35	0.43
39:BG:88:VAL:O	39:BG:89:THR:C	2.55	0.43
34:BA:430:A:P	39:BG:9:CYS:H	2.40	0.43
41:BI:25:ILE:O	41:BI:26:ILE:C	2.55	0.43
41:BI:29:ALA:HA	41:BI:32:ASN:OD1	2.18	0.43
42:BJ:102:ARG:HE	42:BJ:102:ARG:HB2	1.52	0.43
42:BJ:50:ILE:O	42:BJ:54:THR:O	2.35	0.43
44:BL:28:VAL:CG2	44:BL:33:PHE:HA	2.46	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BL:55:ALA:HB3	44:BL:58:ARG:NH2	2.32	0.43
45:BM:51:ARG:H	45:BM:59:SER:HB3	1.82	0.43
45:BM:60:ARG:CG	45:BM:60:ARG:NH1	2.81	0.43
46:BN:53:SER:O	46:BN:54:ARG:C	2.57	0.43
46:BN:12:ARG:HH11	46:BN:75:TYR:HE2	1.65	0.43
46:BN:83:ILE:CD1	46:BN:83:ILE:N	2.81	0.43
47:BO:42:THR:HG21	47:BO:52:LEU:HD13	2.00	0.43
48:BP:81:LEU:HA	48:BP:84:ILE:CG1	2.45	0.43
48:BP:98:VAL:H	48:BP:110:ARG:NH2	2.16	0.43
51:BS:31:LYS:HB3	51:BS:31:LYS:HE2	1.70	0.43
52:BT:29:HIS:HB3	52:BT:32:TYR:N	2.32	0.43
52:BT:67:LYS:O	52:BT:68:ARG:HB3	2.18	0.43
55:BW:101:GLY:O	55:BW:104:LEU:O	2.37	0.43
35:BB:23:A:C2	35:BB:24:G:N1	2.86	0.43
8:AH:168:VAL:C	8:AH:169:ARG:HG2	2.38	0.43
6:AF:48:SER:O	6:AF:48:SER:OG	2.28	0.43
11:AL:48:ASP:C	11:AL:49:LYS:HG3	2.38	0.43
2:AA:2850:A:C2	24:A0:61:HIS:CE1	3.06	0.43
2:AA:535:C:O2'	25:A1:53:LYS:HG2	2.18	0.43
2:AA:1152:C:O2'	25:A1:80:ILE:CD1	2.67	0.43
2:AA:997:G:O3'	25:A1:92:ARG:NH1	2.51	0.43
2:AA:974:G:H3'	26:A2:82:ARG:NH1	2.33	0.43
27:A3:81:ILE:HD12	27:A3:81:ILE:N	2.34	0.43
28:A4:11:PRO:HA	28:A4:40:HIS:HD2	1.78	0.43
30:A6:17:GLY:O	30:A6:18:THR:CG2	2.63	0.43
31:A7:27:GLY:C	31:A7:31:LEU:CG	2.84	0.43
31:A7:34:ARG:HH11	31:A7:42:LEU:HA	1.81	0.43
32:A8:5:LYS:N	32:A8:5:LYS:CD	2.74	0.43
2:AA:1080:C:C2'	2:AA:1081:U:H5'	2.49	0.43
2:AA:1082:U:H3'	2:AA:1083:U:H6	1.83	0.43
2:AA:1160:G:C5	2:AA:1161:C:N4	2.86	0.43
2:AA:1171:G:H2'	2:AA:1173:G:C4'	2.46	0.43
2:AA:1257:C:N3	2:AA:1258:C:C5	2.86	0.43
2:AA:134:C:H2'	2:AA:135:G:C5'	2.48	0.43
2:AA:1398:C:H4'	19:AT:23:LYS:HZ3	1.83	0.43
2:AA:1425:G:H2'	2:AA:1426:G:N7	2.29	0.43
2:AA:1455:G:C5	2:AA:1456:G:C8	3.07	0.43
2:AA:14:A:N7	2:AA:15:G:N9	2.67	0.43
2:AA:1522:G:N2	2:AA:1523:U:N1	2.66	0.43
2:AA:1587:A:C5	2:AA:1588:C:N4	2.86	0.43
2:AA:1591:G:C6	2:AA:1592:C:C4	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:162:U:H4'	2:AA:171:G:C2	2.53	0.43
2:AA:16:G:C5'	29:A5:18:MET:SD	3.06	0.43
2:AA:1689:A:N1	2:AA:1700:A:N1	2.67	0.43
2:AA:1757:U:C2'	2:AA:1757:U:O2	2.65	0.43
2:AA:1766:U:H2'	2:AA:1767:C:C6	2.54	0.43
2:AA:1824:G:H2'	2:AA:1825:A:C4'	2.48	0.43
2:AA:1858:G:N2	2:AA:1885:A:N7	2.66	0.43
2:AA:1891:G:H2'	2:AA:1892:C:C6	2.54	0.43
2:AA:1919:A:O3'	34:BA:1517:G:C1'	2.62	0.43
2:AA:1944:U:H4'	2:AA:1955:U:H1'	1.99	0.43
2:AA:1989:G:C5	2:AA:1990:C:C6	3.05	0.43
2:AA:2000:G:C6	2:AA:2001:A:C5	3.06	0.43
2:AA:201:C:C4	2:AA:202:U:C4	3.07	0.43
2:AA:2032:G:C6	2:AA:2454:G:H4'	2.54	0.43
2:AA:2046:G:C6	2:AA:2623:G:C6	3.06	0.43
2:AA:2122:U:C2'	2:AA:2123:G:H5'	2.46	0.43
2:AA:2178:C:OP2	2:AA:2178:C:H6	2.01	0.43
2:AA:2179:C:OP1	2:AA:2180:U:OP2	2.36	0.43
2:AA:2195:C:O2'	2:AA:2196:C:H4'	2.17	0.43
2:AA:858:U:C2'	2:AA:2268:A:C2'	2.93	0.43
2:AA:2273:A:C8	2:AA:2274:A:O4'	2.63	0.43
2:AA:2303:G:N1	2:AA:2304:G:C5	2.86	0.43
2:AA:2307:G:C2'	2:AA:2311:A:N6	2.81	0.43
2:AA:2312:U:C4	2:AA:2313:C:C4	3.06	0.43
2:AA:389:G:O4'	2:AA:2413:G:H4'	2.19	0.43
2:AA:2453:A:O2'	2:AA:2572:A:H1'	2.19	0.43
2:AA:2508:G:OP1	35:BB:75:C:O2	2.36	0.43
2:AA:2551:C:O2'	2:AA:2552:U:H5'	2.18	0.43
2:AA:2563:U:O2	2:AA:2566:A:N7	2.52	0.43
2:AA:1129:A:N3	2:AA:2570:G:H1'	2.30	0.43
2:AA:2589:A:N1	2:AA:2606:C:C4	2.87	0.43
2:AA:2051:A:C5	2:AA:2614:A:C5	3.06	0.43
2:AA:2618:G:O2'	2:AA:2619:C:C5'	2.66	0.43
2:AA:270(Q):C:C4	2:AA:270(R):G:C8	3.05	0.43
2:AA:270(R):G:N2	2:AA:270(S):G:C4	2.86	0.43
2:AA:2756:U:C4	2:AA:2759:G:O6	2.71	0.43
2:AA:2628:C:O4'	2:AA:2781:A:C2	2.72	0.43
2:AA:281:G:C8	2:AA:281:G:P	3.11	0.43
2:AA:2825:C:N3	2:AA:2826:A:C5	2.86	0.43
2:AA:2838:G:H4'	24:A0:45:ARG:HH22	1.83	0.43
2:AA:2851:A:C8	24:A0:61:HIS:NE2	2.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:336:C:H2'	2:AA:337:C:O5'	2.18	0.43
2:AA:361:G:H5''	2:AA:362:U:OP1	2.19	0.43
2:AA:396:G:OP1	28:A4:10:VAL:HA	2.18	0.43
2:AA:461:C:H42	2:AA:469:G:N2	2.14	0.43
2:AA:478:A:C6	2:AA:480:A:C5	3.06	0.43
2:AA:484:C:C2	2:AA:485:C:C5	3.06	0.43
2:AA:556:G:H2'	2:AA:557:U:H6	1.83	0.43
2:AA:591:C:C5	2:AA:592:G:N7	2.86	0.43
2:AA:260:G:O2'	2:AA:608:A:N1	2.51	0.43
2:AA:656:G:C5	2:AA:657:U:C4	3.06	0.43
2:AA:668:G:C2	2:AA:670:A:C6	3.07	0.43
2:AA:672:C:C2'	2:AA:673:C:O5'	2.67	0.43
2:AA:69:C:O2	2:AA:69:C:C2'	2.56	0.43
2:AA:785:G:N3	2:AA:786:C:C5	2.86	0.43
2:AA:827:U:C5	2:AA:2430:A:C6	3.06	0.43
2:AA:861:A:N7	2:AA:862:G:N7	2.66	0.43
2:AA:874:G:OP1	21:AV:172:LEU:HD12	2.18	0.43
2:AA:879:G:C2	2:AA:880:G:N9	2.87	0.43
2:AA:893:C:C2	2:AA:894:C:C5	3.06	0.43
2:AA:935:C:HO2'	2:AA:936:C:C5'	2.30	0.43
1:AB:9:G:N7	1:AB:112:G:O6	2.51	0.43
3:AC:89:ALA:CA	3:AC:154:ARG:HH12	2.24	0.43
3:AC:208:PHE:HB3	3:AC:209:LEU:H	1.65	0.43
3:AC:20:TYR:CE1	3:AC:222:VAL:CG2	2.97	0.43
2:AA:729:G:C5	4:AD:207:ALA:HA	2.52	0.43
2:AA:729:G:C8	4:AD:207:ALA:HB1	2.53	0.43
4:AD:85:ASN:O	4:AD:86:ARG:HB3	2.19	0.43
5:AE:268:LEU:HG	5:AE:296:VAL:CG2	2.23	0.43
6:AF:1:MET:HB2	6:AF:2:GLU:H	1.56	0.43
8:AH:102:LEU:CG	8:AH:104:LEU:HD11	2.48	0.43
8:AH:43:THR:CB	8:AH:50:THR:O	2.67	0.43
9:AI:69:ASN:HB3	9:AI:72:GLN:CG	2.47	0.43
10:AK:23:ASP:HB3	10:AK:24:GLY:H	1.52	0.43
11:AL:113:MET:HA	11:AL:116:LEU:HB3	1.99	0.43
11:AL:79:LEU:HD11	11:AL:132:ALA:HB2	2.00	0.43
11:AL:96:ILE:CG2	11:AL:138:GLU:OE2	2.66	0.43
12:AM:54:VAL:CA	12:AM:135:ILE:HD12	2.49	0.43
12:AM:135:ILE:HG23	12:AM:139:LEU:CD1	2.48	0.43
12:AM:47:THR:O	12:AM:48:GLY:O	2.36	0.43
12:AM:52:GLN:HB3	12:AM:55:GLU:OE2	2.18	0.43
12:AM:58:GLU:O	12:AM:61:VAL:CA	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:83:ILE:C	12:AM:87:LEU:HD12	2.38	0.43
13:AN:88:ARG:O	13:AN:90:ASP:O	2.36	0.43
13:AN:92:SER:HB3	13:AN:113:LYS:HZ2	1.82	0.43
14:AO:123:ASP:O	14:AO:124:ASP:OD2	2.36	0.43
2:AA:910:A:N6	15:AP:12:PRO:O	2.52	0.43
15:AP:17:ARG:HA	15:AP:22:GLY:CA	2.41	0.43
15:AP:35:ASN:HB2	15:AP:75:SER:HA	2.00	0.43
16:AQ:11:ARG:HG3	16:AQ:12:ARG:H	1.82	0.43
16:AQ:55:ASP:HB2	16:AQ:56:ASP:H	1.59	0.43
18:AS:84:ARG:N	18:AS:95:ILE:HG23	2.33	0.43
19:AT:4:VAL:HB	19:AT:5:ILE:H	1.44	0.43
20:AU:49:GLU:HB3	20:AU:97:ARG:HH11	1.83	0.43
20:AU:90:PRO:O	20:AU:90:PRO:HG2	2.17	0.43
20:AU:93:THR:OG1	20:AU:94:SER:N	2.52	0.43
21:AV:126:GLY:O	21:AV:129:ARG:CB	2.61	0.43
21:AV:3:LEU:CD2	21:AV:34:LEU:O	2.66	0.43
34:BA:1066:C:H3'	34:BA:1067:A:H8	1.83	0.43
34:BA:1091:U:C5	34:BA:1093:A:OP2	2.71	0.43
34:BA:1068:G:O6	34:BA:1108:G:C2	2.72	0.43
34:BA:1239:A:H62	34:BA:1299:A:H61	1.61	0.43
34:BA:1260:C:H4'	34:BA:1284:C:C5'	2.47	0.43
34:BA:1300:G:O2'	34:BA:1301:U:H6	2.02	0.43
34:BA:1421:G:C2'	34:BA:1422:G:H5'	2.48	0.43
34:BA:1438:G:H2'	34:BA:1439:C:H6	1.83	0.43
34:BA:145:G:C2'	34:BA:146:G:H5'	2.49	0.43
34:BA:1479:C:H3'	34:BA:1479:C:C6	2.53	0.43
34:BA:1480:G:H2'	34:BA:1481:U:H5'	2.01	0.43
34:BA:161:A:H2'	34:BA:162:A:H8	1.83	0.43
34:BA:20:U:O5'	34:BA:20:U:H6	2.00	0.43
34:BA:241:C:C2'	34:BA:242:C:O5'	2.66	0.43
34:BA:246:A:C4	34:BA:282:A:N6	2.87	0.43
34:BA:320:C:O2'	34:BA:321:A:O5'	2.37	0.43
34:BA:510:A:O2'	34:BA:542:G:H2'	2.18	0.43
34:BA:522:C:O3'	47:BO:120:TYR:OH	2.36	0.43
34:BA:544:G:N2	34:BA:549:C:H4'	2.34	0.43
34:BA:573:A:H2'	34:BA:574:A:H8	1.68	0.43
34:BA:569:C:O4'	34:BA:574:A:N1	2.51	0.43
34:BA:608:A:C2	34:BA:609:A:N9	2.86	0.43
34:BA:658:G:C5	34:BA:659:U:C6	3.06	0.43
34:BA:682:G:C8	34:BA:682:G:O5'	2.72	0.43
34:BA:723:U:P	34:BA:723:U:C5	3.12	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:757:U:H5'	34:BA:878:G:H22	1.76	0.43
34:BA:860:A:N6	34:BA:869:G:O2'	2.52	0.43
34:BA:920:U:C4	34:BA:921:U:C5	3.06	0.43
34:BA:947:G:H21	34:BA:948:C:H1'	1.83	0.43
34:BA:959:A:N1	34:BA:1221:G:O2'	2.36	0.43
34:BA:964:A:H2'	34:BA:965:A:C8	2.53	0.43
34:BA:976:G:P	34:BA:1358:U:HO2'	2.41	0.43
34:BA:979:C:OP1	34:BA:981:U:O4	2.37	0.43
34:BA:982:U:H6	34:BA:982:U:OP1	2.02	0.43
34:BA:993:G:C2'	34:BA:994:A:OP1	2.66	0.43
35:BB:56:C:N4	35:BB:57:G:C6	2.87	0.43
35:BB:58:A:H2'	35:BB:59:U:H5''	1.99	0.43
35:BC:4:G:H2'	35:BC:5:A:H8	1.83	0.43
35:BC:4:G:N7	35:BC:5:A:N7	2.66	0.43
37:BE:105:PHE:HA	37:BE:108:ILE:HG12	2.00	0.43
37:BE:189:ASP:HB2	37:BE:191:ASP:OD1	2.19	0.43
37:BE:60:ASP:CG	37:BE:64:ARG:NH2	2.71	0.43
38:BF:71:ALA:CB	38:BF:109:PRO:HG3	2.49	0.43
38:BF:113:ALA:O	38:BF:114:PRO:C	2.57	0.43
38:BF:16:ARG:NH2	38:BF:184:TYR:N	2.42	0.43
34:BA:1109:C:OP1	38:BF:176:HIS:NE2	2.51	0.43
38:BF:191:THR:CG2	38:BF:196:LEU:HD11	2.48	0.43
38:BF:51:GLY:C	38:BF:70:VAL:HG13	2.38	0.43
39:BG:98:GLU:C	39:BG:100:ARG:N	2.72	0.43
39:BG:120:LEU:HA	39:BG:125:HIS:CD2	2.54	0.43
40:BH:109:ILE:HG21	40:BH:135:THR:CG2	2.47	0.43
41:BI:27:GLN:HA	41:BI:27:GLN:OE1	2.19	0.43
42:BJ:126:ASP:C	42:BJ:131:LYS:O	2.56	0.43
43:BK:6:ILE:CD1	43:BK:10:LEU:CD1	2.94	0.43
44:BL:5:TYR:CZ	44:BL:16:ARG:HG3	2.51	0.43
44:BL:26:VAL:HG13	44:BL:61:ALA:O	2.18	0.43
44:BL:66:ARG:HG2	44:BL:67:GLY:H	1.83	0.43
34:BA:1060:C:C5'	45:BM:52:GLY:H	2.27	0.43
46:BN:111:ASP:OD2	46:BN:113:PRO:CG	2.66	0.43
47:BO:38:THR:C	47:BO:39:VAL:CG2	2.87	0.43
48:BP:21:TYR:N	48:BP:21:TYR:CD2	2.84	0.43
48:BP:48:LEU:HD23	48:BP:49:THR:N	2.32	0.43
50:BR:10:LYS:HZ2	50:BR:14:GLU:CD	2.21	0.43
50:BR:27:VAL:O	50:BR:31:LEU:CB	2.64	0.43
51:BS:20:VAL:CG2	51:BS:32:TYR:CD2	2.86	0.43
34:BA:761:G:C4'	52:BT:103:GLY:H	2.28	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:44:ALA:HA	52:BT:71:PHE:O	2.18	0.43
54:BV:11:VAL:HG12	54:BV:16:LEU:HD13	2.00	0.43
54:BV:63:THR:HB	54:BV:66:MET:CE	2.47	0.43
34:BA:1459:C:P	55:BW:27:LYS:HZ3	2.42	0.43
55:BW:73:HIS:HD2	55:BW:74:LYS:CE	2.30	0.43
55:BW:74:LYS:C	55:BW:76:ALA:N	2.68	0.43
34:BA:261:U:C5	55:BW:79:ARG:NH2	2.87	0.43
10:AK:88:ARG:HG2	10:AK:123:ALA:CA	2.49	0.43
10:AK:132:LYS:C	10:AK:138:THR:HB	2.38	0.43
35:BB:1:G:C2	35:BB:73:A:C4	3.06	0.43
23:AX:57:GLU:HG2	23:AX:58:VAL:N	2.32	0.43
10:AK:69:LYS:O	10:AK:73:GLU:CG	2.63	0.43
37:BE:28:PHE:HD1	37:BE:31:TYR:CB	2.30	0.43
1:AB:38:C:H2'	1:AB:39:A:C8	2.53	0.43
24:A0:36:THR:CB	24:A0:40:LYS:HB3	2.48	0.43
24:A0:44:LEU:HD13	24:A0:48:VAL:CG2	2.49	0.43
2:AA:2840:C:H4'	24:A0:53:HIS:NE2	2.33	0.43
24:A0:54:LEU:N	24:A0:54:LEU:HD13	2.25	0.43
24:A0:57:ARG:NH2	24:A0:59:ASP:OD1	2.51	0.43
24:A0:59:ASP:C	24:A0:63:ARG:HG3	2.38	0.43
25:A1:13:ARG:HD2	25:A1:16:LYS:NZ	2.33	0.43
26:A2:11:GLN:HB3	26:A2:21:ARG:NE	2.33	0.43
26:A2:49:GLU:O	26:A2:54:TYR:OH	2.36	0.43
26:A2:85:GLY:C	26:A2:86:HIS:ND1	2.71	0.43
26:A2:69:ILE:CG2	26:A2:88:GLN:CB	2.96	0.43
2:AA:1162:G:N2	26:A2:90:PHE:CD2	2.86	0.43
28:A4:39:VAL:C	28:A4:40:HIS:CG	2.91	0.43
29:A5:16:ARG:O	29:A5:17:ASP:C	2.54	0.43
29:A5:18:MET:O	29:A5:19:ARG:O	2.37	0.43
30:A6:28:ARG:CB	30:A6:28:ARG:NH1	2.52	0.43
30:A6:11:LYS:HZ1	32:A8:35:GLY:H	1.66	0.43
2:AA:1052:C:O2	2:AA:1053:C:C6	2.72	0.43
2:AA:1053:C:H2'	2:AA:1054:A:O4'	2.18	0.43
2:AA:1231:G:H3'	2:AA:1231:G:C8	2.54	0.43
2:AA:1300:U:O2'	2:AA:1301:A:OP2	2.34	0.43
2:AA:136:G:C4	2:AA:137:C:O2'	2.72	0.43
2:AA:1524:G:C6	2:AA:1525:G:C5	3.06	0.43
2:AA:1466:G:H2'	2:AA:1547:C:H5	1.80	0.43
2:AA:1579:A:C2'	2:AA:1580:A:H5'	2.49	0.43
2:AA:1605:C:O2	2:AA:1610:A:H2'	2.18	0.43
2:AA:1746:G:O5'	2:AA:1747:G:P	2.76	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1812:A:C6	2:AA:1813:G:C5	3.07	0.43
2:AA:1942:C:N1	2:AA:1943:U:H5	2.17	0.43
2:AA:2004:G:O6	2:AA:2005:A:N1	2.51	0.43
2:AA:2009:G:C2'	2:AA:2010:G:H5'	2.49	0.43
2:AA:2044:C:C5	2:AA:2625:G:C2	3.07	0.43
2:AA:206:U:C2'	2:AA:207:A:H5'	2.48	0.43
2:AA:2140:C:C2	2:AA:2152:G:N2	2.87	0.43
2:AA:2208:U:O5'	2:AA:2208:U:O3'	2.35	0.43
2:AA:2216:G:H2'	2:AA:2217:G:H5'	1.98	0.43
2:AA:2218:G:N1	2:AA:2219:G:C5	2.86	0.43
2:AA:2274:A:O5'	2:AA:2275:C:OP2	2.37	0.43
2:AA:2295:C:N4	2:AA:2337:G:C6	2.85	0.43
2:AA:2371:G:HO2'	30:A6:47:HIS:CD2	2.27	0.43
2:AA:2432:A:H2	2:AA:2433:A:C5	2.37	0.43
2:AA:2472:G:H2'	2:AA:2475:C:C4	2.46	0.43
2:AA:2478:A:N7	2:AA:2479:G:C5	2.86	0.43
2:AA:2522:U:C5'	2:AA:2523:G:OP2	2.66	0.43
2:AA:252:G:C2	2:AA:253:C:N1	2.86	0.43
2:AA:2547:U:C6	2:AA:2566:A:C5	3.06	0.43
2:AA:2509:G:C6	2:AA:2580:U:N3	2.87	0.43
2:AA:265:A:N6	2:AA:428:A:C8	2.87	0.43
2:AA:2681:C:O4'	5:AE:48:MET:HE1	2.18	0.43
2:AA:272:G:C2	2:AA:273:G:N3	2.87	0.43
2:AA:2732:G:C5'	2:AA:2733:A:O5'	2.64	0.43
2:AA:2743:C:C4	2:AA:2762:G:C6	3.06	0.43
2:AA:2782:G:O5'	2:AA:2782:G:C8	2.71	0.43
2:AA:2845:G:C6	2:AA:2871:C:N3	2.86	0.43
2:AA:301:G:C5'	2:AA:334:C:HO2'	2.31	0.43
2:AA:201:C:H4'	2:AA:386:G:C6	2.54	0.43
2:AA:181:A:H2	2:AA:434:U:HO2'	1.59	0.43
2:AA:434:U:H6	2:AA:434:U:P	2.42	0.43
2:AA:458:G:H2'	31:A7:40:HIS:NE2	2.34	0.43
2:AA:475:U:C6	2:AA:475:U:OP2	2.69	0.43
2:AA:475:U:O4	2:AA:481:G:N1	2.51	0.43
2:AA:612:G:C2	2:AA:615:G:N2	2.86	0.43
2:AA:2711:A:P	2:AA:712(A):A:OP2	2.77	0.43
2:AA:747:U:C6	2:AA:747:U:O5'	2.71	0.43
2:AA:744:G:N2	2:AA:754:C:N1	2.67	0.43
2:AA:793:A:OP2	2:AA:793:A:O4'	2.36	0.43
2:AA:806:C:H6	2:AA:806:C:OP2	2.01	0.43
2:AA:814:C:H4'	2:AA:1224:G:N2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:980:A:C6	2:AA:1135:C:C4'	3.01	0.43
3:AC:117:PRO:HG3	3:AC:145:VAL:HG13	2.00	0.43
4:AD:202:LYS:HG3	4:AD:203:PRO:HD2	2.00	0.43
4:AD:62:ARG:N	4:AD:62:ARG:HD3	2.34	0.43
4:AD:90:ILE:HG23	4:AD:91:ALA:H	1.81	0.43
5:AE:222:ARG:HG2	5:AE:232:ARG:N	2.33	0.43
5:AE:73:ILE:O	5:AE:293:TYR:CD2	2.71	0.43
2:AA:605:C:P	6:AF:105:LYS:HD3	2.59	0.43
7:AG:134:LEU:O	7:AG:135:VAL:HG22	2.18	0.43
7:AG:15:GLU:HA	7:AG:16:PRO:HD2	1.61	0.43
7:AG:19:GLU:O	7:AG:19:GLU:CG	2.65	0.43
8:AH:143:LEU:CA	8:AH:146:ASN:HB2	2.47	0.43
8:AH:22:THR:CG2	8:AH:34:ARG:O	2.56	0.43
8:AH:36:PHE:O	8:AH:37:HIS:O	2.37	0.43
8:AH:73:ASN:C	8:AH:75:VAL:N	2.72	0.43
2:AA:1055:G:C1'	9:AI:28:LYS:HZ3	2.29	0.43
11:AL:110:LYS:C	11:AL:113:MET:HG2	2.39	0.43
11:AL:39:CYS:O	11:AL:42:PHE:CB	2.56	0.43
11:AL:42:PHE:CZ	11:AL:58:ILE:CD1	3.02	0.43
14:AO:144:ASP:C	14:AO:145:LEU:HD12	2.39	0.43
15:AP:15:THR:N	15:AP:20:ILE:CD1	2.78	0.43
15:AP:36:ASN:O	15:AP:41:THR:HB	2.19	0.43
17:AR:54:THR:HG23	17:AR:55:ALA:N	2.33	0.43
18:AS:49:LYS:CD	18:AS:50:VAL:N	2.77	0.43
20:AU:20:HIS:HA	20:AU:67:LEU:CD2	2.48	0.43
20:AU:31:LEU:HA	20:AU:34:GLU:OE1	2.16	0.43
21:AV:106:GLY:H	21:AV:141:MET:HG2	1.84	0.43
36:B1:68:U:H5''	36:B1:69:A:P	2.58	0.43
34:BA:1011:G:H2'	34:BA:1012:U:H5'	1.99	0.43
34:BA:1026:G:OP2	34:BA:1026:G:H8	2.01	0.43
34:BA:1123:A:H2'	34:BA:1124:G:C1'	2.49	0.43
34:BA:1236:A:H5'	34:BA:1305:G:OP1	2.19	0.43
34:BA:1243:C:O2'	34:BA:1244:C:H5'	2.18	0.43
34:BA:1271:G:O2'	34:BA:1272:G:H5'	2.18	0.43
34:BA:1283:G:H2'	34:BA:1284:C:C5'	2.48	0.43
34:BA:1378:C:O2	34:BA:1379:G:O5'	2.35	0.43
34:BA:1423:G:O2'	34:BA:1424:C:O4'	2.33	0.43
34:BA:335:C:O4'	34:BA:1434:A:H4'	2.19	0.43
34:BA:130:A:C2	34:BA:263:A:C2	2.89	0.43
34:BA:118:U:O4	34:BA:289:G:C5'	2.66	0.43
34:BA:290:C:C2	34:BA:291:C:C6	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:29:G:O4'	34:BA:296:U:OP1	2.37	0.43
34:BA:308:C:H2'	34:BA:309:G:H5'	1.98	0.43
34:BA:602:A:C6	34:BA:603:U:C4	3.07	0.43
34:BA:604:G:C2	34:BA:605:U:H1'	2.54	0.43
34:BA:644:G:C5	34:BA:645:C:C6	3.06	0.43
34:BA:70:G:C6	34:BA:73:C:C4	3.06	0.43
34:BA:756:C:N3	34:BA:757:U:C5	2.86	0.43
34:BA:839:U:O2	34:BA:839:U:C2'	2.64	0.43
34:BA:828:A:N6	34:BA:859:A:O4'	2.50	0.43
34:BA:946:A:C2	34:BA:947:G:C5	3.06	0.43
34:BA:953:G:H2'	34:BA:954:G:O5'	2.18	0.43
34:BA:964:A:C6	34:BA:965:A:N6	2.86	0.43
37:BE:20:GLU:N	37:BE:39:ILE:HD13	2.33	0.43
37:BE:20:GLU:C	37:BE:39:ILE:HG12	2.39	0.43
37:BE:80:ILE:HD12	37:BE:211:ILE:CG2	2.48	0.43
38:BF:155:GLY:O	38:BF:196:LEU:HB3	2.19	0.43
38:BF:30:ARG:CG	38:BF:31:HIS:H	2.30	0.43
38:BF:30:ARG:CG	38:BF:31:HIS:N	2.81	0.43
38:BF:59:ARG:O	38:BF:60:ALA:CB	2.65	0.43
38:BF:84:ILE:O	38:BF:88:ARG:HB2	2.18	0.43
39:BG:28:SER:O	39:BG:30:LYS:N	2.51	0.43
39:BG:29:PRO:CA	39:BG:34:GLU:HG2	2.44	0.43
39:BG:63:LYS:HB3	39:BG:63:LYS:HE3	1.83	0.43
40:BH:102:ALA:HB2	40:BH:120:THR:O	2.17	0.43
40:BH:107:ARG:C	40:BH:109:ILE:N	2.69	0.43
40:BH:144:THR:O	40:BH:148:VAL:HG23	2.18	0.43
40:BH:61:TYR:O	40:BH:64:ARG:O	2.36	0.43
41:BI:50:TYR:CE1	53:BU:81:PHE:CE2	3.06	0.43
41:BI:7:ASN:ND2	41:BI:62:TRP:HD1	2.16	0.43
41:BI:91:VAL:O	41:BI:92:LYS:C	2.57	0.43
42:BJ:110:GLN:O	42:BJ:111:ARG:O	2.35	0.43
43:BK:27:PRO:O	43:BK:32:LYS:CE	2.65	0.43
43:BK:97:VAL:HG13	43:BK:98:LYS:H	1.83	0.43
44:BL:113:LYS:NZ	44:BL:119:ALA:CB	2.73	0.43
34:BA:1349:A:OP2	44:BL:118:LYS:CD	2.66	0.43
44:BL:81:ILE:O	44:BL:82:ALA:C	2.55	0.43
45:BM:60:ARG:CG	45:BM:60:ARG:HH11	2.31	0.43
45:BM:40:LEU:HD12	45:BM:71:LEU:HD23	2.01	0.43
47:BO:28:LYS:HD2	47:BO:33:ARG:CZ	2.48	0.43
34:BA:952:U:O4	48:BP:104:ARG:NH1	2.52	0.43
48:BP:14:ARG:CG	48:BP:16:ASP:OD2	2.60	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:60:VAL:HA	48:BP:63:THR:HG21	1.97	0.43
48:BP:81:LEU:HD21	48:BP:88:ARG:HH21	1.84	0.43
49:BQ:13:THR:O	49:BQ:13:THR:CG2	2.57	0.43
49:BQ:29:ARG:O	49:BQ:33:VAL:HG11	2.18	0.43
45:BM:63:PHE:CA	49:BQ:59:ALA:HB2	2.49	0.43
50:BR:52:SER:O	50:BR:53:HIS:C	2.57	0.43
50:BR:55:GLY:HA2	50:BR:58:MET:HG3	2.01	0.43
50:BR:25:THR:HG23	50:BR:66:LEU:HD12	2.00	0.43
51:BS:10:GLY:CA	51:BS:14:ASN:ND2	2.82	0.43
52:BT:32:TYR:O	52:BT:34:LYS:N	2.51	0.43
34:BA:1319:A:O3'	54:BV:70:LYS:NZ	2.51	0.43
55:BW:16:HIS:C	55:BW:18:GLN:N	2.70	0.43
35:BB:26:G:C2	35:BB:27:C:N1	2.87	0.43
10:AK:114:LYS:HB3	10:AK:115:ILE:H	1.44	0.43
10:AK:84:GLY:C	10:AK:85:GLU:HG3	2.38	0.43
10:AK:94:THR:CG2	10:AK:97:GLN:H	2.23	0.43
35:BB:11:C:H2'	35:BB:12:U:O5'	2.18	0.43
35:BB:12:U:O4	35:BB:23:A:N1	2.52	0.43
37:BE:133:LYS:CA	37:BE:133:LYS:HE2	2.48	0.43
36:B1:31:G:H2'	36:B1:32:G:C8	2.53	0.43
36:B1:6:U:O3'	36:B1:7:A:O4'	2.37	0.43
36:B1:28:U:N3	36:B1:29:G:C6	2.86	0.43
25:A1:21:ALA:CA	25:A1:24:PHE:CZ	3.01	0.43
25:A1:39:LEU:O	25:A1:40:LEU:C	2.56	0.43
25:A1:55:ARG:HD3	25:A1:55:ARG:HH11	1.69	0.43
25:A1:89:ASP:HB3	26:A2:51:ALA:HB3	2.00	0.43
26:A2:15:SER:CA	26:A2:99:GLN:NE2	2.80	0.43
26:A2:65:ARG:O	26:A2:93:ILE:CG1	2.64	0.43
27:A3:69:PHE:C	27:A3:70:ILE:CD1	2.84	0.43
31:A7:17:GLY:O	31:A7:20:ALA:HB3	2.19	0.43
32:A8:39:ASP:O	32:A8:42:ARG:CB	2.67	0.43
2:AA:1007:C:O5'	2:AA:1007:C:H6	2.01	0.43
2:AA:1080:C:HO2'	2:AA:1081:U:H5'	1.80	0.43
2:AA:1047:G:C2	2:AA:1110:G:N7	2.87	0.43
2:AA:1161:C:H4'	26:A2:8:GLY:HA3	2.01	0.43
2:AA:115:C:C2	2:AA:116:C:C6	3.06	0.43
2:AA:1171:G:C3'	2:AA:1173:G:C5'	2.91	0.43
2:AA:1173:G:C2'	2:AA:1174:A:N7	2.81	0.43
2:AA:839:U:C4'	2:AA:1191:G:H21	2.32	0.43
2:AA:1213:A:C2	2:AA:1237:A:O2'	2.68	0.43
2:AA:120:U:C2'	2:AA:121:G:OP2	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1224:G:H1'	26:A2:86:HIS:CD2	2.54	0.43
2:AA:1272:A:C8	2:AA:1618:A:C1'	3.01	0.43
2:AA:1286:A:C4	2:AA:1329:U:C4	3.06	0.43
2:AA:134:C:C2'	2:AA:135:G:C5'	2.96	0.43
2:AA:1419:A:C8	2:AA:1420:U:O2	2.71	0.43
2:AA:1440:G:O2'	2:AA:1441:G:H5'	2.19	0.43
2:AA:1527:G:C1'	2:AA:1545:A:H62	2.28	0.43
2:AA:1566:A:C2	4:AD:212:HIS:HA	2.53	0.43
2:AA:1422:G:C6	2:AA:1576:U:C4	3.05	0.43
2:AA:1768:U:C2	2:AA:1985:G:C6	3.05	0.43
2:AA:1835:G:N2	2:AA:1836:C:C2	2.86	0.43
2:AA:1917:U:H5''	2:AA:1918:A:N7	2.33	0.43
2:AA:1912:A:C5	2:AA:1918:A:C2	3.07	0.43
2:AA:1973:G:C6	2:AA:1974:C:N4	2.86	0.43
2:AA:2067:G:C6	2:AA:2444:G:C6	3.07	0.43
2:AA:2090:G:C5	2:AA:2230:G:C6	3.07	0.43
2:AA:209:C:H2'	2:AA:210:C:O5'	2.19	0.43
2:AA:2119:A:N6	2:AA:2147:G:H5''	2.33	0.43
2:AA:214:G:C2	2:AA:215:G:C4	3.07	0.43
2:AA:216:A:C2	2:AA:217:G:C6	3.07	0.43
2:AA:2124:G:H21	2:AA:2175:C:N4	2.16	0.43
2:AA:2196:C:C2	2:AA:2197:U:O2	2.72	0.43
2:AA:2290:G:C2	2:AA:2291:U:C2	3.06	0.43
2:AA:2294:C:C2'	2:AA:2294:C:O2	2.57	0.43
2:AA:2321:G:C2'	2:AA:2321:G:N3	2.80	0.43
2:AA:2349:G:C4	2:AA:2369:A:C2	3.06	0.43
2:AA:2364:C:O2'	27:A3:32:LYS:NZ	2.41	0.43
2:AA:806:C:HO2'	2:AA:2445:G:C4'	2.31	0.43
2:AA:2478:A:N7	2:AA:2479:G:N7	2.66	0.43
2:AA:2478:A:C4	2:AA:2529:G:C5	3.06	0.43
2:AA:1670:C:P	2:AA:2550:G:OP2	2.75	0.43
2:AA:2737:G:N2	2:AA:2768:C:C4	2.86	0.43
2:AA:2779:U:H5''	2:AA:2780:G:H3'	2.00	0.43
2:AA:2873:A:H2'	2:AA:2874:C:O5'	2.19	0.43
2:AA:30:G:C4	2:AA:31:C:C6	3.06	0.43
2:AA:312:G:P	2:AA:312:G:O4'	2.77	0.43
2:AA:332:A:C8	2:AA:335:C:C4	3.06	0.43
2:AA:340:A:O5'	2:AA:340:A:H8	2.02	0.43
2:AA:348:G:N3	2:AA:348:G:H2'	2.33	0.43
2:AA:473:G:O2'	2:AA:474:G:H5'	2.18	0.43
2:AA:49:A:N1	2:AA:177:G:C2	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:512:G:H3'	2:AA:512:G:C8	2.54	0.43
2:AA:556:G:H2'	2:AA:557:U:C6	2.52	0.43
2:AA:614:U:H3'	2:AA:615:G:C5'	2.49	0.43
2:AA:614:U:P	2:AA:615:G:O4'	2.77	0.43
2:AA:6:A:H5'	12:AM:4:ALA:CB	2.41	0.43
2:AA:705:A:O2'	2:AA:706:A:O5'	2.37	0.43
2:AA:791:C:O2	2:AA:794:G:H5'	2.12	0.43
2:AA:831:G:C6	2:AA:832:G:C5	3.07	0.43
2:AA:869:G:H2'	2:AA:870:A:O4'	2.19	0.43
2:AA:89:G:OP2	2:AA:90:U:H5'	2.19	0.43
2:AA:918:A:N3	2:AA:918:A:C5'	2.81	0.43
2:AA:997:G:C4	2:AA:998:C:C5	3.07	0.43
1:AB:40:U:C4	1:AB:43:C:P	3.12	0.43
1:AB:73:A:N3	1:AB:73:A:C2'	2.82	0.43
1:AB:8:U:O2	1:AB:9:G:C8	2.71	0.43
3:AC:27:HIS:O	3:AC:31:GLU:CG	2.65	0.43
3:AC:8:ARG:C	3:AC:8:ARG:HD2	2.38	0.43
4:AD:199:ARG:NH1	4:AD:199:ARG:CG	2.73	0.43
5:AE:107:GLU:HG2	5:AE:110:ARG:CZ	2.49	0.43
5:AE:214:VAL:CG1	5:AE:221:LYS:NZ	2.71	0.43
5:AE:48:MET:O	5:AE:49:THR:CG2	2.62	0.43
6:AF:237:GLU:O	6:AF:240:LEU:HB2	2.19	0.43
6:AF:32:GLY:HA3	6:AF:36:ARG:CZ	2.44	0.43
7:AG:37:ALA:O	7:AG:40:ILE:N	2.52	0.43
7:AG:29:HIS:CE1	7:AG:64:ARG:NH1	2.87	0.43
7:AG:23:VAL:HG23	7:AG:73:VAL:O	2.18	0.43
8:AH:36:PHE:CE2	8:AH:71:LEU:HG	2.53	0.43
9:AI:66:PHE:CE2	9:AI:73:VAL:CG1	3.01	0.43
9:AJ:60:ASP:CG	9:AJ:101:VAL:HG11	2.38	0.43
9:AJ:72:GLN:HA	9:AJ:75:LYS:CE	2.49	0.43
9:AJ:80:ILE:CG2	9:AJ:81:THR:HG23	2.39	0.43
11:AL:72:THR:HA	11:AL:73:PRO:HD2	1.80	0.43
12:AM:41:ALA:C	12:AM:132:LEU:O	2.57	0.43
13:AN:17:ARG:NH1	13:AN:54:LYS:HZ3	2.17	0.43
13:AN:17:ARG:NH2	13:AN:46:ALA:O	2.52	0.43
15:AP:26:LYS:HD2	15:AP:89:PRO:HG2	2.00	0.43
16:AQ:110:THR:CG2	16:AQ:115:VAL:HG23	2.36	0.43
16:AQ:33:ARG:HG2	16:AQ:48:VAL:O	2.18	0.43
16:AQ:40:ASN:HA	16:AQ:114:LYS:NZ	2.34	0.43
18:AS:11:ARG:HB3	18:AS:11:ARG:CZ	2.48	0.43
18:AS:48:ALA:O	18:AS:52:GLU:HG2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AU:23:VAL:O	20:AU:24:ARG:O	2.37	0.43
20:AU:81:LYS:HD2	20:AU:83:ASP:N	2.31	0.43
21:AV:52:PHE:N	21:AV:65:LEU:CD1	2.57	0.43
22:AW:13:PRO:N	22:AW:16:ARG:NH1	2.66	0.43
23:AX:6:VAL:HG23	23:AX:56:VAL:HG23	2.00	0.43
34:BA:994:A:N1	34:BA:1047:G:C4'	2.81	0.43
34:BA:1122:U:C4	34:BA:1123:A:C6	3.06	0.43
34:BA:1148:U:C2'	34:BA:1149:C:O4'	2.66	0.43
34:BA:1165:C:N4	34:BA:1166:G:C5	2.86	0.43
34:BA:115:G:H4'	34:BA:116:A:C8	2.53	0.43
34:BA:1064:G:O6	34:BA:1193:G:O6	2.37	0.43
34:BA:1203:C:H2'	34:BA:1204:A:H8	1.83	0.43
34:BA:132:C:C6	34:BA:133:U:H5	2.35	0.43
34:BA:1339:A:C3'	34:BA:1340:A:H5'	2.48	0.43
34:BA:1346:A:C8	34:BA:1348:U:C5	3.06	0.43
34:BA:1368:G:C4	34:BA:1369:C:C6	3.06	0.43
34:BA:1442:G:N3	34:BA:1442:G:H3'	2.34	0.43
34:BA:1523:G:C6	34:BA:1524:C:N4	2.86	0.43
34:BA:1530:G:C2	34:BA:1531:A:C2	3.06	0.43
34:BA:20:U:O2	34:BA:21:G:N9	2.52	0.43
34:BA:258:G:C2	34:BA:269:C:N3	2.87	0.43
34:BA:282:A:N7	34:BA:283:C:H5	2.16	0.43
34:BA:30(A):G:C4	34:BA:1031:G:N1	2.87	0.43
34:BA:314:C:C2'	34:BA:315:A:H1'	2.49	0.43
34:BA:352:C:O2	34:BA:352:C:C2'	2.65	0.43
34:BA:397:A:N7	34:BA:547:A:O2'	2.51	0.43
34:BA:413:G:N3	34:BA:413:G:H2'	2.33	0.43
34:BA:46:G:N2	34:BA:366:C:H1'	2.34	0.43
34:BA:478:A:N7	34:BA:479:C:N4	2.66	0.43
34:BA:559:A:HO2'	34:BA:560:U:P	2.40	0.43
34:BA:58:C:H6	34:BA:58:C:H5''	1.83	0.43
34:BA:629:G:N3	34:BA:630:G:C8	2.86	0.43
34:BA:597:G:N2	34:BA:643:C:C2	2.83	0.43
34:BA:65:U:H5''	34:BA:66:G:OP1	2.18	0.43
34:BA:694:A:C2	34:BA:695:A:N9	2.86	0.43
34:BA:698:G:C2	34:BA:699:C:C2	3.06	0.43
34:BA:781:A:C2'	34:BA:782:A:O5'	2.66	0.43
34:BA:841:U:O3'	34:BA:848:C:O4'	2.36	0.43
34:BA:19:C:C1'	34:BA:864:A:N3	2.68	0.43
34:BA:886:G:C6	34:BA:912:C:C2	3.06	0.43
34:BA:90:U:H2'	34:BA:91:C:C6	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:930:C:N4	34:BA:1387:G:H1	2.16	0.43
34:BA:969:A:C2	34:BA:970:C:C2	3.07	0.43
34:BA:979:C:C3'	34:BA:980:C:H5'	2.49	0.43
34:BA:996:A:C2	34:BA:997:U:C5	3.06	0.43
35:BB:8:U:H3'	35:BB:8:U:C6	2.54	0.43
37:BE:116:GLU:C	37:BE:118:LEU:N	2.68	0.43
37:BE:67:THR:HG21	37:BE:155:LEU:CD1	2.39	0.43
34:BA:1057:G:OP1	38:BF:155:GLY:HA3	2.18	0.43
38:BF:42:LEU:C	38:BF:45:LYS:HB2	2.38	0.43
38:BF:77:ILE:HD13	38:BF:77:ILE:HA	1.84	0.43
40:BH:78:HIS:CD2	40:BH:78:HIS:H	2.37	0.43
42:BJ:150:ALA:O	42:BJ:151:TYR:C	2.57	0.43
42:BJ:26:PHE:CZ	42:BJ:30:ILE:HD11	2.54	0.43
34:BA:1240:U:H2'	42:BJ:32:ARG:HH21	1.83	0.43
42:BJ:69:VAL:HG21	42:BJ:104:LEU:HD11	1.99	0.43
43:BK:75:ARG:HA	43:BK:76:PRO:HD3	1.88	0.43
44:BL:97:LYS:HD2	44:BL:102:LEU:HD21	1.99	0.43
44:BL:10:ARG:O	44:BL:11:LYS:C	2.55	0.43
44:BL:78:LYS:HA	44:BL:81:ILE:CD1	2.47	0.43
45:BM:16:LEU:HB3	45:BM:70:ARG:NE	2.33	0.43
45:BM:3:LYS:CG	45:BM:75:ILE:HG12	2.48	0.43
45:BM:71:LEU:O	45:BM:73:ASP:N	2.51	0.43
47:BO:21:LYS:O	47:BO:22:SER:O	2.37	0.43
47:BO:27:LEU:HD23	47:BO:33:ARG:CD	2.47	0.43
47:BO:42:THR:HG23	47:BO:43:VAL:N	2.32	0.43
47:BO:58:VAL:CG1	47:BO:59:ARG:N	2.82	0.43
47:BO:89:ARG:O	47:BO:90:VAL:HG22	2.18	0.43
48:BP:14:ARG:HG3	48:BP:17:VAL:HG23	2.00	0.43
48:BP:73:GLU:CD	48:BP:73:GLU:C	2.77	0.43
34:BA:581:G:C4'	50:BR:64:ARG:NH1	2.72	0.43
34:BA:43:C:C5'	51:BS:12:LYS:HB2	2.48	0.43
34:BA:463:A:C5'	51:BS:75:ARG:HH12	2.31	0.43
54:BV:15:LEU:HD11	54:BV:38:SER:OG	2.18	0.43
54:BV:58:VAL:HG21	54:BV:75:ALA:CB	2.49	0.43
55:BW:14:LYS:C	55:BW:16:HIS:N	2.69	0.43
10:AK:72:LEU:HD21	10:AK:108:LEU:HD12	2.01	0.43
10:AK:127:THR:O	10:AK:143:VAL:O	2.36	0.43
10:AK:135:PRO:C	10:AK:136:GLU:CG	2.87	0.43
21:AV:26:LYS:C	21:AV:27:GLU:CG	2.87	0.43
27:A3:85:GLN:O	27:A3:86:THR:C	2.55	0.43
2:AA:1017:G:C2	2:AA:1146:C:N3	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:A2:46:VAL:C	26:A2:47:PHE:CD1	2.92	0.43
24:A0:104:ARG:N	24:A0:111:LEU:HD11	2.33	0.43
24:A0:44:LEU:HD13	24:A0:48:VAL:HG21	1.99	0.43
25:A1:109:LEU:HD23	25:A1:109:LEU:C	2.39	0.43
25:A1:70:ARG:O	25:A1:73:GLY:N	2.51	0.43
25:A1:98:ILE:HA	25:A1:101:ARG:HG2	2.00	0.43
26:A2:69:ILE:HG22	26:A2:88:GLN:CB	2.48	0.43
27:A3:26:PHE:O	27:A3:60:PHE:CD1	2.72	0.43
27:A3:33:ALA:HB3	27:A3:66:LYS:H	1.83	0.43
28:A4:11:PRO:CA	28:A4:40:HIS:CD2	2.95	0.43
28:A4:5:LEU:HB2	28:A4:56:VAL:HG13	2.00	0.43
28:A4:42:PHE:C	28:A4:57:ASP:OD1	2.57	0.43
28:A4:44:THR:H	28:A4:61:LYS:HZ1	1.66	0.43
2:AA:126:A:C6	31:A7:18:PHE:CE2	3.07	0.43
33:A9:19:ARG:CG	33:A9:19:ARG:O	2.67	0.43
33:A9:27:CYS:HB3	33:A9:32:HIS:HB2	2.01	0.43
2:AA:1071:G:O5'	2:AA:1089:G:O6	2.36	0.43
2:AA:1077:A:C8	2:AA:1078:U:N3	2.87	0.43
2:AA:1085:A:H5'	9:AI:29:PHE:CD1	2.53	0.43
2:AA:107:C:C2'	2:AA:108:U:C6	2.96	0.43
2:AA:1197:G:H2'	2:AA:1197:G:N3	2.34	0.43
2:AA:1197:G:O6	2:AA:1198:U:O4	2.37	0.43
2:AA:1210:A:OP1	2:AA:1212:G:OP1	2.36	0.43
2:AA:1222:C:H2'	2:AA:1223:C:O5'	2.18	0.43
2:AA:1199:U:O4	2:AA:1246:A:N1	2.52	0.43
2:AA:1366:A:C2	2:AA:1367:A:C8	3.07	0.43
2:AA:1403:C:H4'	2:AA:1471:A:H5''	1.92	0.43
2:AA:1405:U:C2	2:AA:1406:U:C4	3.07	0.43
2:AA:1420:U:H1'	2:AA:1421:G:C8	2.53	0.43
2:AA:1459:G:C6	2:AA:1461:G:C4	3.06	0.43
2:AA:1468:C:C2'	2:AA:1469:A:O5'	2.66	0.43
2:AA:147:U:C2'	2:AA:148:C:H5'	2.49	0.43
2:AA:1514:U:H2'	2:AA:1515:C:OP2	2.19	0.43
2:AA:1534:G:C2	2:AA:1536:A:H1'	2.53	0.43
2:AA:1604:C:HO2'	2:AA:1605:C:C4'	2.32	0.43
2:AA:1617:C:O2	2:AA:1617:C:C2'	2.67	0.43
2:AA:1707:G:C2	2:AA:1756:G:C2	3.06	0.43
2:AA:1707:G:C4'	2:AA:1756:G:HO2'	2.27	0.43
2:AA:178:G:C3'	2:AA:178:G:C8	3.01	0.43
2:AA:1799:G:N9	2:AA:1819:A:N6	2.67	0.43
2:AA:1839:G:C8	2:AA:1927:A:H1'	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1871:A:C2	2:AA:1872:A:C5	3.07	0.43
2:AA:1937:A:C6	2:AA:1939:U:C5	3.07	0.43
2:AA:1944:U:O4'	2:AA:1955:U:H6	1.98	0.43
2:AA:197:A:N3	2:AA:198:C:H1'	2.33	0.43
2:AA:2131:G:P	2:AA:2131:G:O4'	2.76	0.43
2:AA:2147:G:HO2'	2:AA:2148:G:H5'	1.80	0.43
2:AA:2150:U:O3'	2:AA:2151:G:C8	2.69	0.43
2:AA:222:A:N6	2:AA:224:G:C2	2.87	0.43
2:AA:2278:A:C6	2:AA:2279:G:N7	2.86	0.43
2:AA:2299:G:H2'	2:AA:2300:G:H8	1.84	0.43
2:AA:2331:G:H21	2:AA:2385:C:N4	2.10	0.43
2:AA:233:A:O2'	2:AA:234:C:H5'	2.18	0.43
2:AA:2389:G:OP2	2:AA:2390:U:H5'	2.18	0.43
2:AA:23:G:N3	2:AA:24:G:O4'	2.52	0.43
2:AA:2551:C:C2	2:AA:2552:U:C6	3.06	0.43
2:AA:2680:C:OP1	5:AE:302:GLY:C	2.56	0.43
2:AA:270(S):G:O2'	2:AA:270(T):G:H8	2.01	0.43
2:AA:2715:C:C2	2:AA:2716:U:C6	3.07	0.43
2:AA:2718:G:N2	2:AA:2719:G:H1'	2.34	0.43
2:AA:2754:U:O2'	2:AA:2756:U:OP2	2.30	0.43
2:AA:2746:U:O2	2:AA:2759:G:C2	2.71	0.43
2:AA:2803:C:O2	2:AA:2804:C:O2	2.36	0.43
2:AA:285:C:H3'	2:AA:286:C:C6	2.54	0.43
2:AA:321:G:H5'	6:AF:150:THR:CG2	2.41	0.43
2:AA:382:G:H2'	2:AA:383:U:O4'	2.19	0.43
2:AA:434:U:C2'	2:AA:435:C:OP2	2.66	0.43
2:AA:462:C:N3	2:AA:468:G:C2	2.84	0.43
2:AA:489:G:N2	2:AA:491:G:N3	2.67	0.43
2:AA:533:G:H5''	2:AA:534:U:OP2	2.18	0.43
2:AA:571:A:O2'	2:AA:572:A:P	2.77	0.43
2:AA:642:G:H3'	2:AA:642:G:C8	2.53	0.43
2:AA:717:G:N1	2:AA:718:A:H1'	2.30	0.43
2:AA:744:G:H5'	2:AA:1659:U:OP1	2.17	0.43
2:AA:750:A:C5'	2:AA:1617:C:O2	2.67	0.43
2:AA:776:G:N1	2:AA:793:A:N7	2.66	0.43
2:AA:791:C:C2	2:AA:794:G:C5'	2.78	0.43
2:AA:939:G:H2'	2:AA:940:G:H8	1.82	0.43
1:AB:112:G:C6	1:AB:113:C:C4	3.06	0.43
1:AB:73:A:N6	1:AB:104:A:C5	2.86	0.43
3:AC:108:MET:CE	3:AC:136:LEU:HD11	2.48	0.43
3:AC:20:TYR:HB3	3:AC:24:GLU:OE1	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:50:ASP:OD1	3:AC:50:ASP:C	2.57	0.43
2:AA:2131:G:C5'	3:AC:6:ARG:HB2	2.47	0.43
4:AD:131:LEU:O	4:AD:166:LYS:NZ	2.28	0.43
5:AE:200:ASP:C	5:AE:201:VAL:CG2	2.86	0.43
5:AE:261:ARG:O	5:AE:262:THR:HB	2.18	0.43
6:AF:218:VAL:HA	6:AF:222:ASP:CG	2.38	0.43
6:AF:224:ALA:O	6:AF:225:PRO:C	2.56	0.43
6:AF:223:LEU:O	6:AF:225:PRO:O	2.37	0.43
6:AF:30:LEU:O	6:AF:33:LYS:N	2.52	0.43
7:AG:97:GLN:CD	7:AG:106:PHE:HD2	2.21	0.43
8:AH:32:LEU:HD21	8:AH:74:MET:HE2	2.00	0.43
8:AH:44:VAL:O	8:AH:44:VAL:HG13	2.19	0.43
9:AI:110:GLU:O	9:AI:114:ILE:HG13	2.18	0.43
9:AI:35:ALA:CB	9:AI:36:PRO:CD	2.75	0.43
9:AJ:80:ILE:HD11	9:AJ:117:LYS:HD2	2.01	0.43
9:AJ:40:ALA:O	9:AJ:41:ALA:C	2.57	0.43
9:AJ:63:LEU:HD11	9:AJ:102:ILE:CD1	2.33	0.43
10:AK:23:ASP:HB2	10:AK:25:TYR:CD2	2.53	0.43
10:AK:31:PHE:O	10:AK:32:LYS:C	2.54	0.43
11:AL:79:LEU:HD13	11:AL:132:ALA:HA	2.01	0.43
2:AA:2563:U:C4'	13:AN:27:GLY:HA2	2.49	0.43
14:AO:104:ASP:C	14:AO:105:TYR:CD2	2.92	0.43
15:AP:68:ALA:O	15:AP:72:VAL:HG23	2.18	0.43
15:AP:90:PHE:N	15:AP:90:PHE:CD1	2.86	0.43
16:AQ:122:ALA:HB1	16:AQ:127:LEU:HB3	1.99	0.43
16:AQ:46:GLN:HE21	16:AQ:57:THR:CB	2.32	0.43
13:AN:76:TYR:CB	17:AR:19:THR:OG1	2.67	0.43
19:AT:14:ALA:O	19:AT:15:MET:C	2.57	0.43
19:AT:31:ARG:NE	19:AT:31:ARG:N	2.67	0.43
20:AU:17:HIS:O	20:AU:20:HIS:N	2.51	0.43
20:AU:61:GLU:HB2	20:AU:75:GLU:OE2	2.19	0.43
21:AV:21:ALA:C	21:AV:32:PHE:HB3	2.39	0.43
23:AX:39:ASP:O	23:AX:44:ARG:HB2	2.19	0.43
34:BA:1118:C:H4'	34:BA:1179:A:O4'	2.19	0.43
34:BA:1047:G:O6	34:BA:1210:C:N3	2.52	0.43
34:BA:1226:C:O3'	48:BP:111:LYS:HE3	2.19	0.43
34:BA:1236:A:C5'	56:BX:2:GLY:N	2.80	0.43
34:BA:1266:G:N2	34:BA:1270:C:H42	2.16	0.43
34:BA:1327:C:OP1	56:BX:20:LYS:HE2	2.19	0.43
34:BA:1331:G:O2'	34:BA:1332:A:P	2.76	0.43
34:BA:1353:G:C2	34:BA:1370:G:C2	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1398:A:H3'	34:BA:1398:A:C8	2.53	0.43
34:BA:1415:G:H2'	34:BA:1416:G:O5'	2.19	0.43
34:BA:173:U:H5''	34:BA:197:A:C5'	2.47	0.43
34:BA:198:G:HO2'	34:BA:199:G:C5'	2.29	0.43
34:BA:262:A:C2	34:BA:263:A:C5	3.07	0.43
34:BA:293:G:C2	34:BA:294:U:C6	3.06	0.43
34:BA:391:G:C2'	34:BA:392:G:O5'	2.67	0.43
34:BA:499:A:C8	34:BA:547:A:C6	3.07	0.43
34:BA:499:A:HO2'	34:BA:500:G:C1'	2.31	0.43
34:BA:540:G:C4	34:BA:541:G:C8	3.06	0.43
34:BA:608:A:C2'	34:BA:609:A:O5'	2.66	0.43
34:BA:609:A:C2	34:BA:610:G:N9	2.87	0.43
34:BA:646:U:C2'	34:BA:647:C:O5'	2.66	0.43
34:BA:664:G:N2	34:BA:741:G:H1	2.16	0.43
34:BA:878:G:P	43:BK:88:LYS:HB3	2.58	0.43
34:BA:913:A:O2'	34:BA:914:A:C5'	2.66	0.43
34:BA:925:G:N1	34:BA:1392:G:C5	2.86	0.43
34:BA:953:G:H2'	34:BA:954:G:C5'	2.48	0.43
34:BA:987:G:C2'	34:BA:988:G:C5'	2.91	0.43
34:BA:988:G:H2'	34:BA:989:C:C6	2.53	0.43
35:BB:2:C:N4	35:BB:71:G:N1	2.66	0.43
35:BB:65:G:N3	35:BB:66:A:N7	2.67	0.43
35:BB:67:A:N3	35:BB:68:U:C6	2.86	0.43
35:BC:21:A:C6	35:BC:46:G:N1	2.86	0.43
37:BE:167:PRO:CG	37:BE:192:SER:OG	2.67	0.43
37:BE:169:LYS:NZ	37:BE:169:LYS:O	2.48	0.43
37:BE:103:THR:OG1	37:BE:180:LEU:HD21	2.18	0.43
37:BE:219:VAL:HG13	37:BE:222:ILE:HD13	2.01	0.43
38:BF:119:ARG:O	38:BF:120:VAL:C	2.57	0.43
38:BF:182:ILE:CD1	38:BF:203:PHE:CD1	3.01	0.43
39:BG:80:GLU:O	39:BG:81:GLU:C	2.56	0.43
40:BH:74:GLY:O	40:BH:115:VAL:HA	2.18	0.43
40:BH:129:ILE:O	40:BH:130:ASN:C	2.55	0.43
43:BK:104:ARG:HB2	43:BK:108:GLY:H	1.83	0.43
43:BK:116:LYS:HB2	43:BK:119:LEU:HD21	2.01	0.43
43:BK:45:ILE:HD12	43:BK:61:VAL:CG1	2.49	0.43
44:BL:11:LYS:HG2	44:BL:12:GLU:OE1	2.19	0.43
44:BL:32:ASP:OD1	44:BL:34:ASN:N	2.51	0.43
45:BM:16:LEU:O	45:BM:70:ARG:HG3	2.19	0.43
45:BM:26:ALA:O	45:BM:84:GLN:OE1	2.37	0.43
45:BM:24:VAL:O	45:BM:28:ARG:CG	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:718:G:H4'	46:BN:117:ASN:ND2	2.33	0.43
46:BN:22:HIS:HB3	46:BN:29:ILE:HG13	1.99	0.43
47:BO:59:ARG:HA	47:BO:64:TYR:O	2.18	0.43
48:BP:81:LEU:CD2	48:BP:88:ARG:HE	2.31	0.43
49:BQ:12:ARG:O	49:BQ:14:PRO:CD	2.67	0.43
52:BT:29:HIS:HB3	52:BT:32:TYR:C	2.39	0.43
53:BU:53:ARG:HG2	53:BU:63:GLN:CD	2.39	0.43
54:BV:20:LEU:CG	54:BV:21:GLU:N	2.81	0.43
56:BX:12:LYS:N	56:BX:12:LYS:CD	2.81	0.43
56:BX:3:LYS:O	56:BX:4:GLY:C	2.57	0.43
35:BB:29:A:N1	35:BB:30:G:C4	2.87	0.43
10:AK:76:THR:HG22	10:AK:142:LYS:HE3	1.99	0.43
35:BB:22:G:C2	35:BB:23:A:C8	3.07	0.43
2:AA:1508:A:H5'	2:AA:1510:A:N7	2.34	0.43
35:BB:72:C:HO2'	35:BB:73:A:H5'	1.82	0.43
23:AX:1:MET:O	23:AX:3:ARG:HG3	2.18	0.43
10:AK:70:GLU:HG3	10:AK:71:GLN:N	2.33	0.43
7:AG:10:PHE:HD1	7:AG:10:PHE:N	2.17	0.43
24:A0:23:ASN:OD1	24:A0:24:GLN:N	2.52	0.43
25:A1:13:ARG:O	25:A1:16:LYS:N	2.52	0.43
25:A1:9:VAL:O	25:A1:13:ARG:CZ	2.66	0.43
26:A2:30:GLY:HA3	26:A2:33:VAL:HG21	2.00	0.43
26:A2:3:ALA:N	26:A2:44:GLN:OE1	2.52	0.43
26:A2:89:ASN:O	26:A2:90:PHE:O	2.36	0.43
28:A4:54:GLY:O	28:A4:55:ARG:HB2	2.19	0.43
29:A5:12:SER:CB	29:A5:15:LYS:NZ	2.82	0.43
30:A6:32:GLN:HB3	30:A6:35:LEU:CG	2.49	0.43
32:A8:21:LYS:HD2	32:A8:48:PHE:CZ	2.53	0.43
2:AA:1022:G:C2	2:AA:1139:G:N3	2.85	0.43
2:AA:1107:G:C8	2:AA:1108:U:C5	3.06	0.43
2:AA:1185:C:O5'	2:AA:1186:G:OP1	2.37	0.43
2:AA:1195:G:O2'	2:AA:1196:C:H5'	2.19	0.43
2:AA:1264:G:N7	2:AA:1265:A:N7	2.64	0.43
2:AA:1275:A:N6	24:A0:19:ALA:CB	2.81	0.43
2:AA:133:C:C2'	2:AA:134:C:O5'	2.67	0.43
2:AA:1364:G:O5'	2:AA:1809:A:N6	2.51	0.43
2:AA:1384:A:H1'	2:AA:1405:U:C4'	2.49	0.43
2:AA:1417:C:C2'	2:AA:1418:G:O5'	2.63	0.43
2:AA:1438:U:C2'	2:AA:1439:A:H5'	2.17	0.43
2:AA:1523:U:H2'	2:AA:1524:G:O5'	2.19	0.43
2:AA:1529:A:C3'	2:AA:1530:G:H5'	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1683:C:N3	2:AA:1684:C:C5	2.87	0.43
2:AA:1767:C:C2'	2:AA:1768:U:H5'	2.49	0.43
2:AA:1905:C:N3	2:AA:1930:G:C2	2.87	0.43
2:AA:1906:G:O4'	2:AA:1929:G:C8	2.72	0.43
2:AA:1913:A:C6	2:AA:1917:U:C5	3.07	0.43
2:AA:1916:A:C2'	2:AA:1917:U:N3	2.81	0.43
2:AA:1942:C:C3'	2:AA:1942:C:OP2	2.54	0.43
2:AA:1954:G:HO2'	2:AA:1955:U:P	2.40	0.43
2:AA:1965:C:H3'	2:AA:1966:A:N7	2.28	0.43
2:AA:1975:G:C5	2:AA:1976:U:C6	3.07	0.43
2:AA:2019:A:O2'	2:AA:2020:A:O5'	2.36	0.43
2:AA:2044:C:H3'	2:AA:2044:C:P	2.58	0.43
2:AA:2045:C:O2'	2:AA:2046:G:O5'	2.36	0.43
2:AA:2085:C:C2'	2:AA:2086:U:O5'	2.67	0.43
2:AA:2104:G:N2	2:AA:2105:C:O2	2.51	0.43
2:AA:186:G:N1	2:AA:211:A:C6	2.87	0.43
2:AA:2190:G:N3	2:AA:2191:G:C8	2.87	0.43
2:AA:2282:G:N2	2:AA:2425:A:N7	2.67	0.43
2:AA:2322:A:C5	2:AA:2323:G:C8	3.06	0.43
2:AA:2262:U:C1'	2:AA:2328:A:N3	2.82	0.43
2:AA:2350:C:O2'	2:AA:2351:G:O5'	2.36	0.43
2:AA:2437:U:H5'	2:AA:2598:A:N1	2.34	0.43
2:AA:2458:G:N7	2:AA:2490:G:C5	2.86	0.43
2:AA:2479:G:C2	2:AA:2480:C:O2	2.72	0.43
2:AA:2502:G:O2'	2:AA:2503:A:P	2.77	0.43
2:AA:2568:C:H2'	2:AA:2569:G:H5'	2.00	0.43
2:AA:2507:C:C4	2:AA:2582:G:C2	3.06	0.43
2:AA:2648:C:C2	2:AA:2673:G:N2	2.86	0.43
2:AA:2657:A:C6	2:AA:2664:G:N2	2.82	0.43
2:AA:2692:C:N3	2:AA:2717:G:N2	2.57	0.43
2:AA:2717:G:H2'	2:AA:2718:G:C5'	2.49	0.43
2:AA:2737:G:C2	2:AA:2768:C:C4	3.07	0.43
2:AA:2772:C:C2	2:AA:2773:C:C5	3.07	0.43
2:AA:336:C:C2'	2:AA:337:C:O5'	2.66	0.43
2:AA:374:A:N3	2:AA:375:C:C1'	2.82	0.43
2:AA:377:C:H2'	2:AA:378:C:C6	2.53	0.43
2:AA:427:U:C6	2:AA:427:U:O5'	2.63	0.43
2:AA:443:A:C2	2:AA:1245:G:N2	2.84	0.43
2:AA:448:U:O2'	6:AF:84:VAL:CG1	2.67	0.43
2:AA:482:A:C2'	2:AA:482:A:N3	2.70	0.43
2:AA:536:A:O2'	2:AA:537:C:H5'	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:539:G:H2'	2:AA:540:G:H8	1.82	0.43
2:AA:543:C:O2'	2:AA:544:C:P	2.76	0.43
2:AA:599:G:N2	2:AA:658:C:C2	2.73	0.43
2:AA:602:G:H2'	2:AA:655:A:H2	1.84	0.43
2:AA:743:G:C2'	2:AA:744:G:O5'	2.67	0.43
2:AA:729:G:C1'	2:AA:763:G:H4'	2.47	0.43
2:AA:771:G:C2	2:AA:772:C:C2	3.06	0.43
2:AA:813:U:O4'	2:AA:1226:G:O4'	2.36	0.43
2:AA:934:G:N1	2:AA:935:C:C4	2.87	0.43
1:AB:24:G:H2'	1:AB:27:C:N4	2.33	0.43
1:AB:77:U:O5'	1:AB:77:U:C6	2.72	0.43
3:AC:148:ASN:HD22	3:AC:151:GLU:CD	2.21	0.43
3:AC:216:THR:O	3:AC:218:MET:N	2.52	0.43
4:AD:172:ILE:N	4:AD:182:MET:HG2	2.33	0.43
2:AA:729:G:C5	4:AD:207:ALA:CB	3.02	0.43
4:AD:72:GLY:O	4:AD:116:MET:HE1	2.18	0.43
4:AD:78:ALA:HA	4:AD:113:MET:HG3	2.01	0.43
5:AE:225:LYS:O	5:AE:229:GLN:CD	2.57	0.43
2:AA:2051:A:O2'	5:AE:238:LEU:HD23	2.18	0.43
5:AE:205:THR:HG23	5:AE:261:ARG:HG3	2.00	0.43
5:AE:44:TYR:O	5:AE:74:GLU:CD	2.57	0.43
6:AF:153:VAL:HG12	6:AF:157:LEU:CD2	2.46	0.43
6:AF:162:VAL:CG1	6:AF:163:HIS:H	2.29	0.43
6:AF:111:VAL:HG13	6:AF:220:THR:N	2.33	0.43
7:AG:93:LEU:CD2	7:AG:106:PHE:CD2	3.01	0.43
7:AG:56:ARG:NH2	7:AG:63:ILE:CG1	2.77	0.43
2:AA:1084:A:H1'	9:AI:25:LEU:HB3	1.99	0.43
11:AL:116:LEU:HD13	11:AL:117:ASN:O	2.19	0.43
12:AM:52:GLN:O	12:AM:56:LYS:HE2	2.19	0.43
13:AN:17:ARG:HH12	13:AN:54:LYS:NZ	2.17	0.43
13:AN:43:VAL:HG23	13:AN:56:GLN:O	2.19	0.43
14:AO:75:LEU:C	14:AO:77:ALA:H	2.22	0.43
14:AO:92:ASP:HB3	14:AO:118:LEU:CG	2.44	0.43
15:AP:123:ILE:CA	15:AP:136:TRP:HE1	2.32	0.43
15:AP:31:PHE:HE1	15:AP:87:LYS:O	2.02	0.43
15:AP:33:MET:HE2	15:AP:34:GLY:H	1.76	0.43
15:AP:43:PRO:O	15:AP:125:TRP:CZ2	2.72	0.43
16:AQ:118:ILE:O	16:AQ:121:GLY:N	2.52	0.43
16:AQ:102:LEU:CD1	16:AQ:129:ILE:HD12	2.47	0.43
1:AB:115:G:O3'	16:AQ:65:ASP:OD1	2.35	0.43
18:AS:103:ILE:CG2	18:AS:103:ILE:O	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AT:52:VAL:CG1	19:AT:53:ASN:N	2.81	0.43
20:AU:72:ILE:O	20:AU:91:LEU:CB	2.59	0.43
20:AU:81:LYS:HD2	20:AU:83:ASP:HB2	1.99	0.43
21:AV:100:THR:HG23	21:AV:137:ASP:OD1	2.19	0.43
21:AV:138:VAL:HB	21:AV:140:LYS:HE3	2.01	0.43
22:AW:20:LEU:HD13	22:AW:20:LEU:O	2.18	0.43
22:AW:20:LEU:O	22:AW:23:LEU:CB	2.67	0.43
23:AX:18:ASP:C	23:AX:18:ASP:OD1	2.57	0.43
23:AX:35:ARG:O	23:AX:36:VAL:CG1	2.66	0.43
23:AX:8:LEU:CA	23:AX:54:VAL:HG12	2.45	0.43
36:B1:52:A:C6	36:B1:53:G:O6	2.71	0.43
34:BA:1041:A:N1	34:BA:1042:G:N7	2.66	0.43
34:BA:1106:G:OP1	38:BF:172:ARG:HD3	2.19	0.43
34:BA:1121:U:H3	34:BA:1152:A:H2	1.62	0.43
34:BA:115:G:N3	34:BA:289:G:C8	2.87	0.43
34:BA:1188:A:C4	34:BA:1189:C:C5	3.07	0.43
34:BA:1295:G:N2	34:BA:1302:U:C2	2.87	0.43
34:BA:1348:U:O3'	44:BL:120:ARG:HD2	2.17	0.43
34:BA:1400:C:C2	35:BC:34:G:C2	3.07	0.43
34:BA:1515:C:HO2'	34:BA:1516:G:C5'	2.30	0.43
34:BA:173:U:C2	34:BA:197:A:C2	3.06	0.43
34:BA:301:G:N2	34:BA:302:G:C1'	2.81	0.43
34:BA:377:G:H1	34:BA:386:C:H42	1.65	0.43
34:BA:355:C:C1'	34:BA:388:G:H2'	2.49	0.43
34:BA:39:G:N1	34:BA:40:C:C5	2.87	0.43
34:BA:513:C:N3	34:BA:514:C:C4	2.87	0.43
34:BA:558:G:C5	34:BA:559:A:C2	3.07	0.43
34:BA:597:G:C6	34:BA:644:G:C6	3.06	0.43
34:BA:695:A:C5	34:BA:696:A:C5	3.06	0.43
34:BA:738:C:N4	34:BA:739:C:N4	2.67	0.43
34:BA:747:C:H2'	34:BA:748:C:C1'	2.49	0.43
34:BA:762:C:N3	34:BA:763:G:N7	2.67	0.43
35:BB:59:U:C4	35:BB:59:U:OP1	2.68	0.43
35:BC:29:A:C5	35:BC:42:G:C2	3.06	0.43
37:BE:74:LYS:C	37:BE:76:GLN:N	2.72	0.43
37:BE:81:VAL:O	37:BE:82:ARG:C	2.56	0.43
37:BE:82:ARG:HD2	37:BE:92:TYR:HE1	1.82	0.43
37:BE:97:TRP:CZ2	37:BE:102:LEU:CD1	2.97	0.43
38:BF:179:ARG:C	38:BF:181:ASN:N	2.72	0.43
34:BA:1060:C:N4	38:BF:2:GLY:HA3	2.33	0.43
39:BG:20:TYR:CA	39:BG:26:CYS:HB3	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BI:11:ASN:OD1	41:BI:11:ASN:C	2.57	0.43
42:BJ:128:ALA:O	42:BJ:129:GLU:C	2.57	0.43
42:BJ:40:ALA:O	42:BJ:43:PHE:HB3	2.19	0.43
42:BJ:46:ALA:HA	42:BJ:49:ILE:CD1	2.37	0.43
42:BJ:80:VAL:HG23	42:BJ:85:TYR:HB2	1.99	0.43
43:BK:1:MET:HG2	43:BK:2:LEU:H	1.83	0.43
44:BL:11:LYS:O	44:BL:13:ALA:N	2.52	0.43
44:BL:26:VAL:CG2	44:BL:61:ALA:HB3	2.29	0.43
34:BA:1123:A:O3'	45:BM:38:ILE:CG2	2.67	0.43
45:BM:51:ARG:HG2	49:BQ:45:ARG:CZ	2.49	0.43
48:BP:12:ASN:OD1	48:BP:12:ASN:O	2.37	0.43
48:BP:51:ALA:HA	48:BP:54:VAL:CG2	2.49	0.43
48:BP:91:ARG:CB	48:BP:98:VAL:HG22	2.20	0.43
49:BQ:36:PHE:CD1	49:BQ:37:PHE:CD2	3.05	0.43
34:BA:751:U:H5'	50:BR:24:SER:HB2	2.01	0.43
50:BR:70:LEU:HG	50:BR:78:TYR:CG	2.53	0.43
51:BS:49:LEU:HD12	51:BS:50:LYS:H	1.82	0.43
52:BT:97:SER:CB	52:BT:103:GLY:HA2	2.49	0.43
54:BV:19:VAL:CG2	54:BV:47:HIS:HE2	2.31	0.43
2:AA:1506:C:C4	2:AA:1507:A:C8	3.07	0.43
2:AA:1050:A:C2'	2:AA:1051:G:C5'	2.90	0.43
9:AJ:3:ILE:HG22	9:AJ:7:ILE:HD11	2.01	0.43
25:A1:48:ARG:O	25:A1:52:ASN:OD1	2.37	0.43
26:A2:40:VAL:CG1	26:A2:55:THR:CG2	2.96	0.43
27:A3:30:VAL:CG2	27:A3:62:LEU:HB3	2.46	0.43
31:A7:38:GLY:O	31:A7:40:HIS:ND1	2.51	0.43
31:A7:40:HIS:ND1	31:A7:40:HIS:N	2.66	0.43
31:A7:9:ASN:O	31:A7:10:ARG:O	2.37	0.43
32:A8:26:LYS:HB2	32:A8:44:LYS:HG2	2.00	0.43
2:AA:1001:A:N7	2:AA:1002:G:C5	2.87	0.43
2:AA:1011:G:O6	2:AA:1151:G:C6	2.71	0.43
2:AA:1027:A:O2'	2:AA:1028:A:C5'	2.67	0.43
2:AA:1029:A:C6	2:AA:1125:G:N2	2.87	0.43
2:AA:1029:A:N6	2:AA:1125:G:N2	2.67	0.43
2:AA:1002:G:N1	2:AA:1153:C:C4	2.77	0.43
2:AA:1155:A:HO2'	2:AA:1156:A:H8	1.67	0.43
2:AA:1199:U:N3	2:AA:1200:C:C5	2.87	0.43
2:AA:1210:A:C8	2:AA:1237:A:N6	2.87	0.43
2:AA:1263:U:C6	2:AA:1264:G:C2	3.07	0.43
2:AA:1296:G:N1	2:AA:1297:C:C4	2.86	0.43
2:AA:1317:A:C6	2:AA:1318:C:C4	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1364:G:C8	28:A4:3:LYS:CE	3.02	0.43
2:AA:1422:G:C2'	2:AA:1423:G:H8	2.10	0.43
2:AA:1464:C:C2	2:AA:1465:G:N7	2.87	0.43
2:AA:1543:A:C8	2:AA:1544:C:C2	3.07	0.43
2:AA:768:G:H5'	2:AA:1622:G:H4'	2.01	0.43
2:AA:1725:G:H2'	2:AA:1725:G:N3	2.34	0.43
2:AA:1819:A:O4'	2:AA:1821:A:C8	2.72	0.43
2:AA:1879:C:C4	2:AA:1880:C:H5	2.36	0.43
2:AA:1856:G:O6	2:AA:1886:C:N3	2.51	0.43
2:AA:1674:G:C6	2:AA:1989:G:O6	2.72	0.43
2:AA:2020:A:OP1	25:A1:31:GLN:NE2	2.42	0.43
2:AA:2044:C:O2	2:AA:2044:C:H2'	2.17	0.43
2:AA:2052:G:H2'	2:AA:2053:G:C8	2.41	0.43
2:AA:2176:A:C4	2:AA:2177:C:C5	3.07	0.43
2:AA:2226:C:C2'	2:AA:2227:A:C4'	2.82	0.43
2:AA:2228:G:O6	2:AA:2229:C:C2	2.71	0.43
2:AA:2262:U:H4'	2:AA:2328:A:C2	2.52	0.43
2:AA:2274:A:C5	2:AA:2276:G:C8	3.06	0.43
2:AA:2276:G:OP2	15:AP:104:PRO:CD	2.52	0.43
2:AA:2332:U:O4'	2:AA:2336:A:N6	2.52	0.43
2:AA:1127:A:C5	2:AA:2518:A:H2	2.37	0.43
2:AA:2519:U:O4	2:AA:2542:A:C8	2.72	0.43
2:AA:2536:G:C5	2:AA:2537:U:C5	3.07	0.43
2:AA:2562:U:O2	2:AA:2562:U:H2'	2.19	0.43
2:AA:2632:A:H2'	2:AA:2632:A:N3	2.34	0.43
2:AA:262:A:C2'	2:AA:263:C:O5'	2.67	0.43
2:AA:270(C):C:C5	2:AA:270(D):C:C5	3.01	0.43
2:AA:2714:G:O2'	2:AA:2715:C:H5'	2.19	0.43
2:AA:2717:G:N3	2:AA:2718:G:C8	2.87	0.43
2:AA:272:G:O2'	2:AA:273:G:O4'	2.37	0.43
2:AA:2749:A:C6	2:AA:2750:A:N7	2.85	0.43
2:AA:2765:A:C5'	2:AA:2766:G:OP2	2.63	0.43
2:AA:2820:A:H62	5:AE:304:ASP:HB3	1.83	0.43
2:AA:2835:A:H61	2:AA:2878:U:C3'	2.32	0.43
2:AA:2866:U:C2'	2:AA:2867:G:O5'	2.66	0.43
2:AA:294:A:C3'	2:AA:294:A:C8	3.02	0.43
2:AA:303:U:C2'	2:AA:304:G:H5'	2.49	0.43
2:AA:337:C:N4	2:AA:339:U:C4	2.87	0.43
2:AA:452:G:H5''	2:AA:453:C:OP2	2.18	0.43
2:AA:512:G:C8	2:AA:512:G:C3'	3.02	0.43
2:AA:527:C:O2'	2:AA:528:A:C5	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:575:A:H2'	2:AA:576:U:H5'	2.01	0.43
2:AA:605:C:OP2	6:AF:105:LYS:HE2	2.19	0.43
2:AA:1630:G:O6	2:AA:630(A):C:N4	2.52	0.43
2:AA:675:A:C4	2:AA:676:A:C2	3.07	0.43
2:AA:681:G:N2	2:AA:682:G:C4	2.87	0.43
2:AA:77:C:N4	2:AA:78:A:N6	2.66	0.43
2:AA:857:C:OP1	27:A3:24:LYS:NZ	2.34	0.43
2:AA:919:G:O2'	2:AA:920:G:H8	2.02	0.43
2:AA:930:U:H3'	2:AA:931:G:O4'	2.19	0.43
2:AA:957:A:N6	2:AA:959:A:C4	2.86	0.43
1:AB:110:G:O2'	1:AB:111:U:H5'	2.19	0.43
3:AC:131:LEU:HB3	3:AC:136:LEU:CB	2.45	0.43
5:AE:200:ASP:O	5:AE:201:VAL:CG2	2.66	0.43
5:AE:45:LYS:HB2	5:AE:305:LYS:HA	1.95	0.43
5:AE:201:VAL:HA	5:AE:310:PHE:O	2.19	0.43
5:AE:39:GLN:OE1	5:AE:174:LEU:CD2	2.55	0.43
6:AF:154:VAL:O	6:AF:158:GLU:CD	2.56	0.43
6:AF:225:PRO:CB	6:AF:231:ARG:HH21	2.31	0.43
6:AF:235:PHE:HB3	6:AF:239:ALA:HB1	2.01	0.43
6:AF:242:GLU:O	6:AF:245:GLU:N	2.51	0.43
6:AF:35:VAL:O	6:AF:38:ALA:CB	2.61	0.43
7:AG:136:ARG:HB3	7:AG:137:PRO:HD2	1.99	0.43
7:AG:13:MET:O	7:AG:14:ARG:C	2.57	0.43
7:AG:93:LEU:HD12	7:AG:94:ALA:CA	2.42	0.43
8:AH:147:ILE:HA	8:AH:150:VAL:HB	2.00	0.43
10:AK:5:PHE:HE1	10:AK:16:GLY:N	2.16	0.43
11:AL:79:LEU:CD1	11:AL:137:ILE:HG21	2.48	0.43
12:AM:108:PRO:O	12:AM:109:TYR:CG	2.72	0.43
13:AN:31:ARG:HB2	13:AN:32:TYR:CZ	2.50	0.43
13:AN:17:ARG:NH1	13:AN:54:LYS:NZ	2.66	0.43
15:AP:134:PHE:O	15:AP:135:ALA:C	2.57	0.43
15:AP:31:PHE:HZ	15:AP:88:PHE:CE2	2.36	0.43
15:AP:49:VAL:HG12	15:AP:50:VAL:N	2.33	0.43
16:AQ:86:LEU:HA	16:AQ:121:GLY:O	2.19	0.43
18:AS:10:VAL:CB	18:AS:101:SER:O	2.58	0.43
19:AT:73:ASP:C	19:AT:75:GLN:CD	2.78	0.43
21:AV:123:VAL:HB	21:AV:159:THR:CG2	2.49	0.43
21:AV:51:LEU:HD23	21:AV:52:PHE:O	2.18	0.43
21:AV:73:LYS:HA	21:AV:73:LYS:HD3	1.78	0.43
22:AW:13:PRO:N	22:AW:16:ARG:CZ	2.82	0.43
23:AX:19:GLN:CD	23:AX:19:GLN:N	2.69	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:932:G:H4'	23:AX:24:LYS:HD3	2.01	0.43
23:AX:8:LEU:HG	23:AX:31:LEU:HD23	2.00	0.43
23:AX:8:LEU:HD12	23:AX:54:VAL:HG12	2.00	0.43
34:BA:1503:A:C4	36:B1:57:A:C6	3.07	0.43
36:B1:60:A:C2'	36:B1:61:U:O5'	2.67	0.43
34:BA:1027:C:C4	34:BA:1028:C:C4	3.07	0.43
34:BA:108:G:O6	55:BW:15:ARG:CD	2.65	0.43
34:BA:1142:G:C2	34:BA:1143:G:H1'	2.54	0.43
34:BA:119:A:O2'	34:BA:120:A:OP2	2.29	0.43
34:BA:1231:G:OP1	44:BL:126:SER:HB2	2.18	0.43
34:BA:1362:C:C5'	34:BA:1363:A:O5'	2.67	0.43
34:BA:1410:G:N1	34:BA:1490:C:N4	2.35	0.43
34:BA:1414:U:O2'	34:BA:1415:G:O5'	2.36	0.43
34:BA:1435:G:C2	34:BA:1436:U:O4	2.72	0.43
34:BA:1506:U:O4'	34:BA:1506:U:OP1	2.37	0.43
34:BA:815:A:C2	34:BA:1529:G:N3	2.87	0.43
34:BA:297:G:O2'	34:BA:299:G:N7	2.41	0.43
34:BA:62:U:OP1	34:BA:386:C:H5'	2.18	0.43
34:BA:427:U:H5'	39:BG:41:GLY:HA2	2.01	0.43
34:BA:491:G:O5'	34:BA:491:G:C8	2.69	0.43
34:BA:528:C:C4'	34:BA:535:A:C6	3.01	0.43
34:BA:602:A:C2	34:BA:637:G:C5	3.07	0.43
34:BA:665:A:C1'	34:BA:733:A:H1'	2.48	0.43
34:BA:68:G:H2'	34:BA:69:G:O5'	2.19	0.43
34:BA:723:U:C3'	34:BA:723:U:C2	3.02	0.43
34:BA:752:G:O2'	34:BA:753:A:P	2.77	0.43
34:BA:801:U:C2'	34:BA:801:U:O2	2.62	0.43
34:BA:937:A:N6	34:BA:938:A:N6	2.67	0.43
34:BA:956:U:C2'	34:BA:957:U:O5'	2.67	0.43
34:BA:96:G:N2	34:BA:97:G:C4	2.87	0.43
35:BB:15:G:C8	35:BB:15:G:OP2	2.72	0.43
35:BB:6:U:O2	35:BB:68:U:C2	2.69	0.43
35:BC:35:A:C2	36:B1:62:G:C2	3.07	0.43
37:BE:120:ALA:O	37:BE:121:LEU:C	2.58	0.43
37:BE:182:ILE:HA	37:BE:183:PRO:HD3	1.91	0.43
37:BE:197:VAL:CG1	37:BE:198:ASP:N	2.82	0.43
38:BF:17:ASP:O	38:BF:18:TRP:C	2.57	0.43
38:BF:50:ALA:O	38:BF:70:VAL:HG11	2.19	0.43
39:BG:121:VAL:HB	39:BG:136:PRO:HG3	2.01	0.43
39:BG:144:ASP:O	39:BG:184:LYS:CA	2.43	0.43
41:BI:16:GLN:HA	41:BI:16:GLN:OE1	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BI:26:ILE:O	41:BI:29:ALA:HB3	2.19	0.43
41:BI:6:VAL:HG13	41:BI:63:TYR:N	2.31	0.43
42:BJ:142:GLU:O	42:BJ:145:ALA:N	2.52	0.43
43:BK:86:ILE:HG21	43:BK:133:LEU:HB2	2.01	0.43
43:BK:44:PHE:HD1	43:BK:79:VAL:CG1	2.31	0.43
44:BL:15:ALA:CB	44:BL:76:ALA:C	2.87	0.43
44:BL:16:ARG:C	44:BL:63:ILE:HG23	2.36	0.43
45:BM:51:ARG:CA	45:BM:59:SER:HB3	2.48	0.43
46:BN:95:ILE:CG2	46:BN:108:ILE:HD11	2.37	0.43
46:BN:51:LYS:O	46:BN:52:GLY:C	2.55	0.43
47:BO:123:LYS:O	47:BO:125:PRO:CD	2.66	0.43
47:BO:27:LEU:C	47:BO:29:GLY:H	2.14	0.43
47:BO:41:ARG:HB3	47:BO:41:ARG:HH11	1.83	0.43
48:BP:102:ARG:O	48:BP:103:THR:HG23	2.18	0.43
48:BP:19:LEU:HD12	48:BP:20:THR:H	1.82	0.43
52:BT:53:LEU:HG	52:BT:54:GLY:N	2.32	0.43
54:BV:51:VAL:HB	54:BV:58:VAL:CG2	2.49	0.43
34:BA:1459:C:OP1	55:BW:27:LYS:HD3	2.18	0.43
55:BW:66:ALA:HB1	55:BW:72:LEU:HB2	1.98	0.43
36:B1:34:U:O2'	36:B1:35:C:H5'	2.19	0.43
36:B1:24:A:H8	36:B1:24:A:O5'	2.02	0.43
11:AL:36:MET:CE	11:AL:40:LYS:HE3	2.49	0.43
9:AJ:97:SER:HB2	9:AJ:98:PRO:HD2	2.01	0.43
24:A0:56:LYS:HE3	24:A0:56:LYS:HB3	1.60	0.43
28:A4:33:VAL:HG12	28:A4:34:ASP:H	1.76	0.43
28:A4:7:PRO:CB	28:A4:60:ASN:HB3	2.49	0.43
30:A6:17:GLY:O	30:A6:18:THR:CB	2.67	0.43
33:A9:9:LYS:O	33:A9:10:MET:SD	2.77	0.43
2:AA:1006:C:O4'	12:AM:24:SER:HB2	2.18	0.43
2:AA:1106:G:H2'	2:AA:1107:G:C8	2.54	0.43
2:AA:1120:G:C6	2:AA:1121:C:C5	3.07	0.43
2:AA:1130:U:O5'	2:AA:1130:U:H6	2.01	0.43
2:AA:1025:G:N9	2:AA:1134:G:H4'	2.33	0.43
2:AA:1137:G:C5	2:AA:1138:G:H1'	2.54	0.43
2:AA:1148:A:C2	2:AA:1149:G:C5	3.07	0.43
2:AA:1164:G:C4	2:AA:1165:U:C6	3.07	0.43
2:AA:1174:A:N1	2:AA:1176:G:C5'	2.82	0.43
2:AA:1266:G:H5''	18:AS:15:ARG:NH2	2.34	0.43
2:AA:1278:A:N6	2:AA:1292:U:H3	2.17	0.43
2:AA:1395:A:P	2:AA:1603:A:C5'	3.05	0.43
2:AA:1489:U:H4'	2:AA:1490:A:OP2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1580:A:H2'	2:AA:1581:G:C1'	2.48	0.43
2:AA:1612:C:C2	31:A7:3:ARG:CZ	3.01	0.43
2:AA:1635:G:O5'	2:AA:1635:G:C8	2.72	0.43
2:AA:1856:G:C5	2:AA:1857:G:C2	3.07	0.43
2:AA:200:U:H5''	2:AA:201:C:OP2	2.19	0.43
2:AA:2027:G:C5	2:AA:2028:U:C5	3.07	0.43
2:AA:2036:C:H2'	2:AA:2037:G:O5'	2.19	0.43
2:AA:2055:C:H5'	2:AA:2056:G:OP1	2.18	0.43
2:AA:2230:G:C6	2:AA:2231:C:N4	2.87	0.43
2:AA:2255:G:C6	2:AA:2256:G:C5	3.07	0.43
2:AA:226:G:O2'	2:AA:227:A:C5'	2.66	0.43
2:AA:2313:C:O2'	2:AA:2314:C:C5'	2.66	0.43
2:AA:2392:A:C8	2:AA:2393:A:C8	3.07	0.43
2:AA:2443:C:C5	2:AA:2444:G:N7	2.87	0.43
2:AA:2576:G:H4'	2:AA:2577:A:H5'	1.97	0.43
2:AA:2652:C:C4	2:AA:2653:U:C4	3.07	0.43
2:AA:270(D):C:H42	2:AA:270(V):G:H1	1.67	0.43
2:AA:2810:A:C3'	2:AA:2810:A:C8	3.02	0.43
2:AA:2862:G:C2	2:AA:2863:C:C4	3.07	0.43
2:AA:2882:A:H5''	24:A0:98:LEU:CD2	2.41	0.43
2:AA:2889:C:O2	2:AA:2891:G:C1'	2.67	0.43
2:AA:32:C:C4	2:AA:33:U:O4	2.71	0.43
2:AA:344:G:H2'	2:AA:345:A:N9	2.33	0.43
2:AA:422:A:O2'	2:AA:423:A:O5'	2.37	0.43
2:AA:447:A:N7	2:AA:473:G:C6	2.87	0.43
2:AA:507:A:H1'	2:AA:509:C:C4	2.54	0.43
2:AA:604:G:C8	2:AA:605:C:H5	2.37	0.43
2:AA:609(A):G:C8	2:AA:610:C:C5	3.06	0.43
2:AA:631:A:C8	2:AA:632:A:C8	3.07	0.43
2:AA:632:A:H2'	2:AA:633:A:C8	2.54	0.43
2:AA:589:C:H42	2:AA:668:G:H1	0.59	0.43
2:AA:70:G:OP1	2:AA:112:U:C2	2.71	0.43
2:AA:718:A:H3'	2:AA:719:C:H6	1.84	0.43
2:AA:840:C:H4'	2:AA:1192:G:H1'	2.01	0.43
2:AA:969:U:C2'	2:AA:970:C:H5'	2.49	0.43
4:AD:208:GLY:HA2	4:AD:210:LYS:HZ3	1.83	0.43
4:AD:211:HIS:HD1	4:AD:212:HIS:CD2	2.37	0.43
4:AD:87:SER:OG	4:AD:87:SER:O	2.35	0.43
2:AA:2619:C:C4'	5:AE:246:VAL:HG12	2.49	0.43
5:AE:216:ARG:NH1	5:AE:253:GLN:C	2.72	0.43
5:AE:201:VAL:C	5:AE:266:LYS:HZ3	2.20	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:300:VAL:O	5:AE:300:VAL:HG12	2.19	0.43
5:AE:44:TYR:CE2	5:AE:308:VAL:HG22	2.54	0.43
5:AE:43:GLY:O	5:AE:309:PRO:O	2.36	0.43
5:AE:40:GLY:C	5:AE:41:PHE:CG	2.92	0.43
5:AE:61:PRO:CA	5:AE:69:PRO:HA	2.49	0.43
6:AF:153:VAL:O	6:AF:155:SER:N	2.52	0.43
6:AF:84:VAL:C	6:AF:86:GLY:N	2.63	0.43
7:AG:44:ILE:H	7:AG:44:ILE:HG13	1.68	0.43
7:AG:24:HIS:CD2	7:AG:72:LYS:HB3	2.54	0.43
9:AJ:115:LYS:NZ	9:AJ:127:LEU:HB3	2.34	0.43
9:AJ:25:LEU:HA	9:AJ:28:LYS:HD2	2.01	0.43
11:AL:116:LEU:HD22	11:AL:117:ASN:H	1.84	0.43
12:AM:54:VAL:O	12:AM:55:GLU:C	2.56	0.43
2:AA:2727:G:O2'	13:AN:70:ARG:CZ	2.66	0.43
13:AN:66:LYS:HZ1	13:AN:82:ASN:ND2	2.17	0.43
14:AO:132:LYS:O	14:AO:135:GLY:N	2.52	0.43
14:AO:71:GLU:O	14:AO:72:ASN:C	2.56	0.43
14:AO:94:ARG:HH21	14:AO:118:LEU:CB	2.20	0.43
17:AR:49:LEU:HD21	17:AR:54:THR:HG22	1.91	0.43
18:AS:27:LYS:HB3	18:AS:31:GLU:OE2	2.19	0.43
18:AS:36:LEU:O	18:AS:39:THR:HG22	2.18	0.43
19:AT:18:MET:HE1	19:AT:25:GLN:CB	2.49	0.43
21:AV:94:VAL:HG13	21:AV:130:ILE:HG21	1.95	0.43
21:AV:151:ASP:HB3	21:AV:153:LYS:HZ2	1.83	0.43
21:AV:176:LEU:HD23	21:AV:177:THR:N	2.34	0.43
21:AV:6:LYS:HZ2	21:AV:30:VAL:HG11	1.82	0.43
23:AX:13:ILE:H	23:AX:13:ILE:CD1	2.13	0.43
23:AX:26:LEU:CD1	23:AX:28:LEU:HD11	2.48	0.43
23:AX:30:ARG:CZ	23:AX:33:GLN:HB2	2.49	0.43
36:B1:50:G:C6	36:B1:51:G:C6	3.06	0.43
34:BA:1160:G:N2	34:BA:1161:C:N1	2.67	0.43
34:BA:1180:A:O2'	34:BA:1181:G:H5'	2.19	0.43
34:BA:1181:G:C6	34:BA:1182:G:N2	2.87	0.43
34:BA:1239:A:H1'	34:BA:1241:G:C8	2.54	0.43
34:BA:1256:A:H61	34:BA:1278:U:C1'	2.32	0.43
34:BA:1259:C:N4	34:BA:1276:G:N1	2.48	0.43
34:BA:1296:C:O4'	34:BA:1302:U:C4	2.72	0.43
34:BA:1333:A:H2'	34:BA:1334:G:O4'	2.19	0.43
34:BA:1399:C:O2	34:BA:1401:G:C8	2.72	0.43
34:BA:140:A:N1	34:BA:224:C:C4	2.87	0.43
34:BA:1472:U:C2	34:BA:1473:A:C8	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1488:G:N3	34:BA:1489:G:C8	2.87	0.43
34:BA:1492:A:N7	34:BA:1493:A:C4	2.87	0.43
34:BA:230:G:O2'	34:BA:231:G:H5'	2.19	0.43
34:BA:251:G:C2	34:BA:266:G:C6	3.07	0.43
34:BA:292:G:C2	34:BA:309:G:C4	3.07	0.43
34:BA:377:G:H1	34:BA:386:C:N4	2.17	0.43
34:BA:37:U:OP2	47:BO:123:LYS:NZ	2.27	0.43
34:BA:492:G:N7	34:BA:494:G:N7	2.67	0.43
34:BA:523:A:HO2'	34:BA:524:G:H8	1.66	0.43
34:BA:550:G:C6	34:BA:551:U:O4	2.71	0.43
34:BA:658:G:C4	34:BA:659:U:C6	3.07	0.43
34:BA:684:A:HO2'	46:BN:39:PRO:HG2	1.84	0.43
34:BA:685:G:N2	34:BA:686:U:C5	2.87	0.43
34:BA:730:G:H2'	34:BA:731:G:O5'	2.18	0.43
34:BA:785:G:C6	34:BA:798:G:C6	3.07	0.43
34:BA:945:G:C6	34:BA:1337:G:C5	3.07	0.43
34:BA:975:A:O2'	34:BA:976:G:P	2.77	0.43
35:BB:64:A:C4	35:BB:65:G:N7	2.87	0.43
35:BB:64:A:N1	35:BB:65:G:C5	2.87	0.43
35:BC:56:C:N3	35:BC:57:G:N3	2.67	0.43
37:BE:107:THR:C	37:BE:109:SER:N	2.70	0.43
37:BE:74:LYS:NZ	37:BE:206:ASP:OD1	2.52	0.43
37:BE:45:GLN:O	37:BE:48:MET:N	2.49	0.43
38:BF:147:LYS:HG3	38:BF:205:GLY:N	2.34	0.43
38:BF:205:GLY:O	38:BF:206:GLU:CB	2.67	0.43
39:BG:8:VAL:O	39:BG:11:LEU:HG	2.19	0.43
39:BG:3:ARG:NE	39:BG:71:SER:H	2.17	0.43
41:BI:48:LEU:HD21	41:BI:58:GLY:N	2.34	0.43
44:BL:50:LEU:O	44:BL:51:ARG:C	2.55	0.43
46:BN:60:ALA:C	46:BN:62:GLN:N	2.70	0.43
47:BO:75:HIS:CG	47:BO:77:LEU:HD12	2.54	0.43
51:BS:45:THR:HB	51:BS:46:PRO:CD	2.42	0.43
51:BS:71:ARG:HB3	51:BS:71:ARG:NH1	2.34	0.43
52:BT:27:PHE:CE2	52:BT:36:ILE:HD11	2.54	0.43
52:BT:40:LYS:HB3	52:BT:42:TYR:CE1	2.52	0.43
52:BT:54:GLY:O	52:BT:55:ASP:C	2.57	0.43
52:BT:96:GLN:HE22	52:BT:97:SER:CB	2.32	0.43
54:BV:28:LYS:HG2	54:BV:29:ARG:N	2.32	0.43
54:BV:30:LEU:HD23	54:BV:31:ILE:H	1.80	0.43
55:BW:62:LEU:O	55:BW:63:ILE:C	2.56	0.43
55:BW:62:LEU:O	55:BW:65:LYS:HG2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BW:72:LEU:CD2	55:BW:76:ALA:CB	2.95	0.43
10:AK:115:ILE:HG21	10:AK:129:VAL:HG11	2.01	0.43
2:AA:1050:A:C6	2:AA:2751:G:C5	3.06	0.43
10:AK:66:LYS:HG2	10:AK:69:LYS:HZ2	1.83	0.43
2:AA:2248:C:OP2	2:AA:2249:U:H5	2.02	0.43
53:BU:34:TYR:CD2	53:BU:34:TYR:N	2.87	0.43
2:AA:561:G:C2'	25:A1:45:TYR:OH	2.67	0.42
26:A2:31:ASP:O	26:A2:32:LYS:C	2.57	0.42
26:A2:67:LYS:NZ	26:A2:94:LYS:CD	2.79	0.42
29:A5:4:HIS:CB	29:A5:5:PRO:HD3	2.49	0.42
32:A8:15:LYS:O	32:A8:22:VAL:CG1	2.53	0.42
32:A8:22:VAL:CG1	32:A8:23:MET:H	2.26	0.42
2:AA:1022:G:O6	12:AM:47:THR:CB	2.66	0.42
2:AA:1122:G:N3	2:AA:1123:C:C5	2.87	0.42
2:AA:1157:G:C6	2:AA:1158:C:C4	3.07	0.42
2:AA:1164:G:O2'	2:AA:1165:U:C5'	2.67	0.42
2:AA:121:G:H8	2:AA:121:G:O5'	2.02	0.42
2:AA:1278:A:C2	2:AA:1279:G:C4	3.07	0.42
2:AA:1294:U:H5'	2:AA:1295:C:OP2	2.19	0.42
2:AA:135:G:N1	2:AA:144:C:C4	2.80	0.42
2:AA:138:G:C4	2:AA:138:G:C3'	2.99	0.42
2:AA:1429:G:O2'	2:AA:1430:C:O4'	2.33	0.42
2:AA:1544:C:H2'	2:AA:1545:A:O4'	2.19	0.42
2:AA:1690:A:N3	2:AA:1691:C:O4'	2.52	0.42
2:AA:1693:U:C4'	2:AA:1694:C:OP2	2.67	0.42
2:AA:1803:A:N7	2:AA:1804:C:H5	2.15	0.42
2:AA:1805:U:C2	2:AA:1813:G:N2	2.86	0.42
2:AA:1829:A:C3'	2:AA:1830:C:H5'	2.49	0.42
2:AA:1840:G:C2'	2:AA:1841:U:C5'	2.97	0.42
2:AA:1911:U:O2'	2:AA:1912:A:C5'	2.48	0.42
2:AA:194:G:C6	2:AA:195:A:C6	3.06	0.42
2:AA:2013:A:C8	2:AA:2013:A:C3'	3.02	0.42
2:AA:2034:U:C2'	2:AA:2034:U:O2	2.66	0.42
2:AA:2069:G:N2	2:AA:2070:G:C1'	2.81	0.42
2:AA:2102:U:N3	2:AA:2103:C:C4	2.87	0.42
2:AA:2103:C:C2	2:AA:2187:G:N1	2.87	0.42
2:AA:2197:U:C6	2:AA:2224:G:C2	3.07	0.42
2:AA:2205:C:O2'	2:AA:2228:G:N2	2.52	0.42
2:AA:2230:G:C5	2:AA:2231:C:C5	3.07	0.42
2:AA:2252:G:H2'	2:AA:2253:G:O5'	2.18	0.42
2:AA:2276:G:OP2	15:AP:103:ALA:HA	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2334:G:C2'	2:AA:2335:A:H5'	2.27	0.42
2:AA:2380:C:C4	2:AA:2381:C:C5	3.07	0.42
2:AA:243:U:OP2	2:AA:254:G:N1	2.36	0.42
2:AA:2476:A:C8	2:AA:2477:C:C5	3.04	0.42
2:AA:2556:C:C2'	2:AA:2557:G:H5'	2.49	0.42
2:AA:2628:C:C2'	2:AA:2781:A:H2'	2.49	0.42
2:AA:2680:C:H5'	5:AE:302:GLY:CA	2.46	0.42
2:AA:270(R):G:N1	2:AA:270(S):G:C6	2.87	0.42
2:AA:270(U):C:H2'	2:AA:270(V):G:C8	2.54	0.42
2:AA:2791:C:O2	2:AA:2805:G:C2	2.71	0.42
2:AA:279:C:C6	2:AA:280:C:N4	2.85	0.42
2:AA:2807:G:C4	2:AA:2808:U:H5	2.37	0.42
2:AA:2007:C:H4'	2:AA:2824:C:O2'	2.19	0.42
2:AA:285:C:N3	2:AA:286:C:N4	2.67	0.42
2:AA:295:G:N2	2:AA:296:C:C2	2.87	0.42
2:AA:333:G:N1	2:AA:334:C:C4	2.88	0.42
2:AA:526:A:H5''	2:AA:527:C:P	2.59	0.42
2:AA:533:G:N1	2:AA:560:C:N4	1.92	0.42
2:AA:548:A:H5'	2:AA:549:G:N7	2.30	0.42
2:AA:579:G:C2	2:AA:580:C:C5	3.07	0.42
2:AA:59:U:H6	2:AA:59:U:C5'	2.25	0.42
2:AA:627:A:C5	2:AA:637:A:H1'	2.47	0.42
2:AA:653:A:H3'	2:AA:654:A:C4'	2.49	0.42
2:AA:72:U:H4'	22:AW:57:LYS:NZ	2.35	0.42
2:AA:839:U:H4'	2:AA:1191:G:N2	2.34	0.42
2:AA:878:A:C4	2:AA:879:G:N7	2.87	0.42
2:AA:880:G:O2'	2:AA:881:G:H5'	2.18	0.42
2:AA:976:C:O2	2:AA:976:C:C2'	2.67	0.42
3:AC:120:MET:HE3	3:AC:123:VAL:HB	2.00	0.42
3:AC:96:GLY:C	3:AC:98:GLU:H	2.23	0.42
4:AD:100:LYS:O	4:AD:101:ARG:HG3	2.19	0.42
4:AD:145:LEU:CB	4:AD:152:GLN:HG2	2.48	0.42
2:AA:1818:U:C3'	4:AD:155:ARG:HG3	2.46	0.42
4:AD:167:GLU:O	4:AD:170:TYR:CG	2.72	0.42
4:AD:174:ARG:HE	4:AD:180:VAL:HG21	1.78	0.42
4:AD:222:PRO:O	4:AD:224:VAL:HG23	2.19	0.42
4:AD:60:GLN:O	4:AD:62:ARG:CD	2.55	0.42
5:AE:104:PHE:CD2	5:AE:104:PHE:N	2.86	0.42
5:AE:174:LEU:O	5:AE:177:ALA:CA	2.67	0.42
5:AE:308:VAL:CG1	5:AE:310:PHE:HE1	2.27	0.42
5:AE:44:TYR:HA	5:AE:309:PRO:HG3	1.97	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:140:VAL:HB	6:AF:235:PHE:C	2.39	0.42
6:AF:155:SER:O	6:AF:158:GLU:N	2.50	0.42
6:AF:167:ASP:C	6:AF:168:ARG:HG3	2.40	0.42
6:AF:1:MET:O	6:AF:3:ALA:N	2.52	0.42
7:AG:105:SER:CB	7:AG:131:THR:HG22	2.48	0.42
7:AG:87:ALA:O	7:AG:89:PRO:N	2.53	0.42
7:AG:93:LEU:CG	7:AG:94:ALA:H	2.26	0.42
8:AH:20:GLY:O	8:AH:21:ASN:OD1	2.37	0.42
8:AH:53:ARG:O	8:AH:56:ASP:OD1	2.37	0.42
8:AH:8:ILE:CG2	8:AH:9:GLU:H	2.31	0.42
9:AI:50:GLY:HA2	9:AI:53:GLN:OE1	2.19	0.42
9:AI:63:LEU:HD21	9:AI:118:LEU:HB3	2.01	0.42
10:AK:30:LEU:H	10:AK:30:LEU:HG	1.45	0.42
10:AK:52:GLN:O	10:AK:55:GLN:N	2.52	0.42
10:AK:7:LYS:CA	10:AK:14:LYS:HE2	2.48	0.42
11:AL:18:ALA:HB1	11:AL:39:CYS:HB3	2.00	0.42
11:AL:15:ALA:CB	11:AL:50:ALA:HA	2.49	0.42
2:AA:1139:G:H2'	12:AM:47:THR:HG23	2.00	0.42
12:AM:53:ILE:HG23	12:AM:54:VAL:N	2.32	0.42
12:AM:54:VAL:HA	12:AM:135:ILE:CD1	2.49	0.42
12:AM:77:GLY:O	12:AM:79:PHE:N	2.51	0.42
14:AO:59:GLU:C	14:AO:60:GLU:HG3	2.39	0.42
14:AO:66:VAL:CB	14:AO:67:ARG:NH2	2.78	0.42
14:AO:65:ASP:OD2	14:AO:68:GLU:HB2	2.18	0.42
15:AP:149:ILE:HD12	15:AP:149:ILE:H	1.84	0.42
15:AP:41:THR:CG2	15:AP:42:TYR:N	2.82	0.42
16:AQ:28:LYS:O	16:AQ:29:SER:HB2	2.19	0.42
21:AV:116:VAL:CG2	21:AV:116:VAL:O	2.62	0.42
21:AV:117:VAL:O	21:AV:117:VAL:HG12	2.19	0.42
22:AW:12:THR:C	22:AW:16:ARG:NE	2.72	0.42
36:B1:66:G:C8	36:B1:66:G:OP2	2.72	0.42
34:BA:1013:G:O2'	34:BA:1014:A:C8	2.72	0.42
34:BA:101:A:H2'	34:BA:102:G:C5'	2.48	0.42
34:BA:1061:G:H2'	34:BA:1062:U:O4'	2.19	0.42
34:BA:1268:A:C2	34:BA:1269:A:C2	3.07	0.42
34:BA:1422:G:O2'	34:BA:1423:G:H5'	2.19	0.42
34:BA:1428:A:C4	34:BA:1429:C:C4	3.07	0.42
34:BA:1440:C:O2	34:BA:1441:G:H1'	2.19	0.42
34:BA:1442:G:N2	34:BA:1446:A:C4	2.87	0.42
34:BA:1451:A:OP1	34:BA:1451:A:C8	2.72	0.42
34:BA:146:G:C2'	34:BA:147:G:H5'	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:815:A:C1'	34:BA:1529:G:C6	3.02	0.42
34:BA:190:C:H2'	34:BA:190(A):C:O4'	2.17	0.42
34:BA:258:G:O2'	34:BA:259:G:H5'	2.19	0.42
34:BA:378:G:O5'	34:BA:378:G:C8	2.65	0.42
34:BA:393:A:C6	34:BA:394:G:C5	3.07	0.42
34:BA:40:C:O2'	34:BA:41:G:C5'	2.67	0.42
34:BA:559:A:O2'	34:BA:560:U:P	2.77	0.42
34:BA:570:G:C2	34:BA:873:A:C6	3.07	0.42
34:BA:58:C:H6	34:BA:58:C:C5'	2.32	0.42
34:BA:687:A:H4'	34:BA:688:G:O5'	2.18	0.42
34:BA:761:G:N7	34:BA:762:C:C5	2.87	0.42
34:BA:769:G:N2	34:BA:811:C:H1'	2.33	0.42
34:BA:840:C:H5'	34:BA:848:C:O2	2.19	0.42
34:BA:836:G:C5	34:BA:851:G:C6	3.07	0.42
34:BA:996:A:C2	34:BA:997:U:C4	3.07	0.42
35:BC:35:A:C5'	35:BC:35:A:C8	2.96	0.42
35:BC:75:C:C3'	35:BC:75:C:C6	3.02	0.42
37:BE:88:ALA:CB	37:BE:222:ILE:HD13	2.49	0.42
39:BG:101:LEU:HD22	39:BG:138:TYR:CB	2.47	0.42
39:BG:98:GLU:CA	39:BG:103:ASN:ND2	2.78	0.42
39:BG:63:LYS:O	39:BG:64:LEU:C	2.57	0.42
40:BH:131:ILE:HA	40:BH:131:ILE:HD13	1.82	0.42
41:BI:57:GLN:CA	41:BI:57:GLN:NE2	2.80	0.42
43:BK:103:VAL:O	43:BK:108:GLY:N	2.49	0.42
44:BL:99:LEU:HD13	44:BL:99:LEU:HA	1.89	0.42
46:BN:105:VAL:O	46:BN:106:LYS:O	2.37	0.42
46:BN:108:ILE:CG2	46:BN:109:VAL:N	2.82	0.42
46:BN:26:ASN:O	46:BN:27:ASN:HB3	2.19	0.42
47:BO:28:LYS:HG3	47:BO:33:ARG:HH12	1.84	0.42
47:BO:89:ARG:HB3	47:BO:90:VAL:H	1.64	0.42
47:BO:68:ALA:HB1	47:BO:98:TYR:O	2.18	0.42
48:BP:108:ARG:HD2	48:BP:111:LYS:HD2	2.01	0.42
48:BP:60:VAL:O	48:BP:63:THR:HG22	2.19	0.42
50:BR:31:LEU:O	50:BR:34:LEU:HB3	2.18	0.42
51:BS:21:VAL:O	51:BS:22:THR:HG22	2.19	0.42
52:BT:87:LYS:O	52:BT:88:TYR:O	2.37	0.42
53:BU:78:LEU:C	53:BU:79:LEU:CD1	2.87	0.42
54:BV:61:TYR:HD2	54:BV:62:ILE:H	1.67	0.42
54:BV:77:THR:CG2	54:BV:78:ARG:HG3	2.41	0.42
55:BW:50:GLU:CB	55:BW:99:LEU:CB	2.96	0.42
34:BA:192:U:H4'	55:BW:57:ARG:NH1	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BX:9:ARG:C	56:BX:11:GLY:N	2.70	0.42
35:BB:10:G:N3	35:BB:10:G:H2'	2.33	0.42
53:BU:33:ASP:O	53:BU:34:TYR:C	2.57	0.42
1:AB:65:C:C6	1:AB:108:C:N4	2.87	0.42
24:A0:28:LEU:HD13	24:A0:28:LEU:O	2.19	0.42
24:A0:31:HIS:ND1	24:A0:31:HIS:N	2.67	0.42
24:A0:39:PRO:O	24:A0:42:LYS:N	2.52	0.42
26:A2:2:PHE:CD1	26:A2:2:PHE:N	2.87	0.42
26:A2:78:VAL:C	26:A2:80:TYR:N	2.71	0.42
26:A2:87:ARG:NH1	26:A2:87:ARG:HB2	2.33	0.42
26:A2:69:ILE:CG2	26:A2:89:ASN:N	2.82	0.42
2:AA:2354:G:HO2'	27:A3:31:VAL:CG1	2.32	0.42
27:A3:78:PHE:N	27:A3:78:PHE:CD1	2.78	0.42
29:A5:32:GLU:O	29:A5:33:CYS:O	2.36	0.42
32:A8:12:ARG:O	32:A8:13:ARG:O	2.37	0.42
33:A9:9:LYS:NZ	33:A9:16:VAL:HG21	2.34	0.42
2:AA:1031:G:H4'	33:A9:8:LYS:HE2	2.01	0.42
2:AA:1019:U:N3	2:AA:1143:A:N6	2.66	0.42
2:AA:104:U:O2'	2:AA:105:C:H5'	2.19	0.42
2:AA:1082:U:C5	2:AA:1083:U:C4	3.07	0.42
2:AA:1183:G:O2'	2:AA:1184:G:N9	2.52	0.42
2:AA:1221:C:C2'	2:AA:1222:C:O5'	2.67	0.42
2:AA:1319:G:N3	2:AA:1319:G:H2'	2.34	0.42
2:AA:1365:A:C4	2:AA:1366:A:C8	3.06	0.42
2:AA:1380:G:N1	2:AA:1381:G:C5	2.87	0.42
2:AA:1381:G:C5	2:AA:1382:G:N7	2.87	0.42
2:AA:1422:G:O6	2:AA:1576:U:C4	2.73	0.42
2:AA:1429:G:H2'	2:AA:1430:C:H6	1.70	0.42
2:AA:145:G:C2	2:AA:146:G:N9	2.87	0.42
2:AA:1608:A:C5	2:AA:1611:C:C2	3.08	0.42
2:AA:1656:C:C2'	2:AA:1657:C:OP2	2.63	0.42
2:AA:1712:C:N4	2:AA:1746:G:H1	2.18	0.42
2:AA:1769:G:C2	2:AA:1984:G:C6	3.07	0.42
2:AA:1815:A:O4'	2:AA:1817:G:C1'	2.67	0.42
2:AA:1818:U:OP1	4:AD:155:ARG:CB	2.67	0.42
2:AA:1829:A:N6	2:AA:1977:A:N6	2.67	0.42
2:AA:1883:G:N3	2:AA:1884:A:C2	2.87	0.42
2:AA:1926:U:H6	2:AA:1926:U:H3'	1.83	0.42
2:AA:1906:G:O4'	2:AA:1929:G:H8	2.02	0.42
2:AA:1996:C:C6	2:AA:1996:C:C4'	3.02	0.42
2:AA:579:G:H1'	2:AA:2017:U:N3	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2019:A:H2'	2:AA:2020:A:H5''	2.00	0.42
2:AA:2128:C:H3'	2:AA:2129:C:H5'	2.02	0.42
2:AA:225:A:N1	2:AA:230:U:C4	2.87	0.42
2:AA:2404:C:N4	2:AA:2405:G:C6	2.87	0.42
2:AA:410:G:C2	2:AA:2407:G:C5	3.07	0.42
2:AA:239:U:C2'	2:AA:240:G:O5'	2.67	0.42
2:AA:2423:U:O2'	2:AA:2424:C:OP2	2.28	0.42
2:AA:2528:U:C2	2:AA:2536:G:C2	3.07	0.42
2:AA:2526:G:C6	2:AA:2538:C:N3	2.88	0.42
2:AA:2603:G:H5'	2:AA:2603:G:C8	2.46	0.42
2:AA:2604:U:C2	2:AA:2605:U:C6	3.07	0.42
2:AA:2648:C:N4	2:AA:2672:G:N1	2.36	0.42
2:AA:270:A:C8	2:AA:270(A):A:C8	3.07	0.42
2:AA:270(D):C:H2'	2:AA:270(E):G:C8	2.55	0.42
2:AA:2790:A:C5'	2:AA:2791:C:OP1	2.68	0.42
2:AA:2851:A:H2'	2:AA:2852:G:O5'	2.18	0.42
2:AA:360:G:HO2'	2:AA:361:G:C4'	2.32	0.42
2:AA:382:G:H1	2:AA:392:C:N4	2.17	0.42
2:AA:482:A:N6	2:AA:506:G:N3	2.66	0.42
2:AA:528:A:H62	2:AA:2042:A:H8	1.64	0.42
2:AA:532:A:OP1	25:A1:25:TRP:NE1	2.52	0.42
2:AA:705:A:C2'	2:AA:706:A:O5'	2.67	0.42
2:AA:715:G:N3	2:AA:716:A:C2	2.87	0.42
2:AA:723:G:C4	2:AA:724:U:C6	3.07	0.42
2:AA:723:G:O2'	2:AA:724:U:C5'	2.67	0.42
2:AA:734:A:C2	2:AA:735:A:C4	3.06	0.42
2:AA:771:G:N3	2:AA:772:C:C6	2.87	0.42
2:AA:808:G:O2'	2:AA:809:G:C5'	2.67	0.42
2:AA:899:A:C2'	2:AA:900:A:H5'	2.49	0.42
2:AA:943:U:H3'	2:AA:944:G:N7	2.34	0.42
2:AA:951:C:O2'	2:AA:952:G:O5'	2.37	0.42
2:AA:987:G:C8	2:AA:987:G:C3'	3.01	0.42
1:AB:70:C:N4	1:AB:106:G:N1	2.05	0.42
1:AB:15:A:C2'	1:AB:16:G:OP1	2.67	0.42
1:AB:59:A:O4'	7:AG:144:ARG:NE	2.52	0.42
1:AB:70:C:C2'	1:AB:71:C:H5'	2.48	0.42
1:AB:78:A:C2	1:AB:99:A:C6	3.07	0.42
3:AC:119:VAL:O	3:AC:122:ALA:HB3	2.19	0.42
3:AC:172:HIS:O	3:AC:173:ALA:CB	2.67	0.42
4:AD:71:ASP:CB	4:AD:119:PRO:CD	2.97	0.42
4:AD:140:VAL:CG1	4:AD:190:THR:O	2.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:231:ALA:HB1	4:AD:232:VAL:H	1.50	0.42
4:AD:68:ARG:HH21	4:AD:128:ALA:HB3	1.84	0.42
5:AE:222:ARG:CD	5:AE:232:ARG:CA	2.97	0.42
5:AE:222:ARG:H	5:AE:222:ARG:HD2	1.75	0.42
5:AE:222:ARG:HB2	5:AE:227:ALA:HA	2.00	0.42
5:AE:198:TYR:CD2	5:AE:265:ASN:CA	3.00	0.42
2:AA:2820:A:N6	5:AE:304:ASP:HB3	2.33	0.42
5:AE:45:LYS:HB2	5:AE:307:LEU:H	1.85	0.42
5:AE:45:LYS:CE	5:AE:301:PRO:O	2.66	0.42
6:AF:145:GLU:OE2	6:AF:196:THR:HG22	2.19	0.42
6:AF:193:LEU:CD1	6:AF:231:ARG:CB	2.94	0.42
7:AG:19:GLU:CD	7:AG:135:VAL:CG1	2.87	0.42
8:AH:104:LEU:HB2	8:AH:151:ARG:NH2	2.28	0.42
8:AH:27:GLY:O	8:AH:30:GLY:C	2.58	0.42
9:AI:18:LEU:HD13	9:AI:45:ALA:CA	2.49	0.42
2:AA:1055:G:C1'	9:AI:28:LYS:NZ	2.82	0.42
9:AI:63:LEU:HD11	9:AI:102:ILE:CD1	2.36	0.42
10:AK:13:GLY:C	10:AK:15:LYS:H	2.22	0.42
10:AK:15:LYS:O	10:AK:17:GLU:HG3	2.19	0.42
11:AL:79:LEU:CD1	11:AL:132:ALA:HA	2.49	0.42
11:AL:139:VAL:HG23	11:AL:139:VAL:O	2.19	0.42
11:AL:66:PHE:O	11:AL:67:THR:CB	2.67	0.42
13:AN:99:PHE:HB3	13:AN:100:GLY:H	1.44	0.42
13:AN:63:VAL:CG2	13:AN:84:CYS:CA	2.90	0.42
15:AP:60:ALA:O	15:AP:61:LEU:C	2.57	0.42
15:AP:67:ALA:O	15:AP:71:PHE:CD1	2.69	0.42
17:AR:13:ILE:HG12	17:AR:33:SER:HB2	1.95	0.42
18:AS:43:GLY:O	18:AS:45:TYR:N	2.52	0.42
20:AU:41:ARG:HD2	20:AU:111:ARG:O	2.19	0.42
20:AU:11:GLN:HG2	20:AU:12:ARG:N	2.34	0.42
20:AU:15:PRO:HB2	20:AU:18:GLU:CD	2.39	0.42
20:AU:30:ASP:C	20:AU:34:GLU:OE2	2.58	0.42
20:AU:65:VAL:HA	20:AU:72:ILE:HG12	2.01	0.42
21:AV:116:VAL:CB	21:AV:169:VAL:HG22	2.49	0.42
21:AV:122:ILE:C	21:AV:123:VAL:HG13	2.40	0.42
21:AV:159:THR:C	21:AV:160:LEU:CD1	2.87	0.42
21:AV:88:TYR:O	21:AV:91:PRO:CD	2.66	0.42
22:AW:51:LYS:C	22:AW:55:ARG:NE	2.73	0.42
2:AA:72:U:H1'	22:AW:57:LYS:HD2	2.01	0.42
23:AX:52:HIS:C	23:AX:54:VAL:N	2.72	0.42
34:BA:1060:C:H5'	45:BM:52:GLY:N	2.26	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1125:U:C4	45:BM:5:ARG:NH2	2.87	0.42
34:BA:1191:A:OP1	38:BF:3:ASN:ND2	2.52	0.42
34:BA:1061:G:C2	34:BA:1197:G:N3	2.87	0.42
34:BA:1208:C:O2'	34:BA:1209:C:C5'	2.67	0.42
34:BA:1216:G:OP1	49:BQ:3:ARG:HD2	2.18	0.42
34:BA:1227:A:N7	34:BA:1228:C:C6	2.88	0.42
34:BA:1261:A:C5	34:BA:1262:C:C4	3.07	0.42
34:BA:1299:A:N7	34:BA:1301:U:C1'	2.59	0.42
34:BA:1341:U:H5'	35:BC:32:C:OP1	2.19	0.42
34:BA:1288:A:H61	34:BA:1371:G:H1'	1.84	0.42
34:BA:1382:C:O2'	34:BA:1383:C:H5'	2.18	0.42
34:BA:1414:U:O2	34:BA:1415:G:C8	2.72	0.42
34:BA:1469:G:N2	34:BA:1470:G:C4	2.87	0.42
34:BA:1530:G:C6	34:BA:1531:A:C6	3.07	0.42
34:BA:197:A:C6	34:BA:220:G:O2'	2.72	0.42
34:BA:197:A:N1	34:BA:220:G:O2'	2.52	0.42
34:BA:119:A:C5	34:BA:240:C:C5	3.07	0.42
34:BA:242:C:H2'	34:BA:243:A:O5'	2.20	0.42
34:BA:267:C:C2	34:BA:268:C:C5	3.07	0.42
34:BA:566:G:C4'	34:BA:567:G:OP1	2.61	0.42
34:BA:570:G:C2	34:BA:873:A:N1	2.87	0.42
34:BA:592:G:C2'	34:BA:593:G:C5'	2.96	0.42
34:BA:618:C:H3'	34:BA:619:U:H5''	2.01	0.42
34:BA:654:G:O6	34:BA:655:A:C6	2.72	0.42
34:BA:682:G:H8	34:BA:682:G:O5'	2.02	0.42
34:BA:720:C:C6	34:BA:720:C:H3'	2.54	0.42
34:BA:719:C:OP2	34:BA:720:C:N4	2.52	0.42
34:BA:764:C:H2'	34:BA:765:G:O4'	2.20	0.42
34:BA:856:C:N3	34:BA:857:C:C5	2.87	0.42
34:BA:905:U:O4	34:BA:906:G:C4	2.72	0.42
34:BA:885:G:C2	34:BA:913:A:N1	2.87	0.42
34:BA:998:G:H2'	34:BA:998:G:N3	2.34	0.42
35:BB:49:C:C4'	35:BB:49:C:OP2	2.67	0.42
35:BB:60:C:H5'	35:BB:61:C:OP2	2.19	0.42
35:BC:35:A:C2	36:B1:62:G:N1	2.87	0.42
37:BE:15:VAL:CG2	37:BE:209:ARG:CD	2.76	0.42
37:BE:17:PHE:CA	37:BE:42:ILE:CG2	2.97	0.42
38:BF:91:LEU:O	38:BF:92:ALA:C	2.57	0.42
39:BG:106:TYR:O	39:BG:107:ARG:C	2.57	0.42
39:BG:120:LEU:O	39:BG:121:VAL:C	2.58	0.42
39:BG:122:ARG:NH2	39:BG:134:ASP:OD2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BG:31:CYS:CB	39:BG:33:MET:HG2	2.35	0.42
39:BG:4:TYR:CE1	39:BG:5:ILE:O	2.71	0.42
41:BI:19:LEU:HG	41:BI:23:LYS:CD	2.49	0.42
41:BI:50:TYR:CE2	41:BI:52:ILE:CD1	2.99	0.42
41:BI:76:ALA:O	41:BI:80:ARG:CG	2.60	0.42
42:BJ:42:ILE:O	42:BJ:43:PHE:C	2.57	0.42
43:BK:36:LEU:HD12	43:BK:48:TYR:HB2	2.00	0.42
40:BH:152:ARG:HD3	43:BK:64:LYS:HZ3	1.83	0.42
43:BK:46:LYS:NZ	43:BK:65:TYR:H	2.04	0.42
43:BK:97:VAL:CG2	43:BK:98:LYS:H	2.15	0.42
44:BL:23:ASN:OD1	44:BL:25:LYS:HE3	2.18	0.42
44:BL:36:TYR:CZ	44:BL:70:LYS:HE3	2.53	0.42
45:BM:82:ILE:HG13	45:BM:82:ILE:H	1.67	0.42
46:BN:57:THR:HG23	46:BN:60:ALA:HB2	2.00	0.42
46:BN:61:ALA:CB	46:BN:90:GLY:O	2.68	0.42
47:BO:37:CYS:CA	47:BO:58:VAL:HG22	2.48	0.42
49:BQ:27:CYS:C	49:BQ:40:CYS:SG	2.97	0.42
50:BR:5:LYS:O	50:BR:8:LYS:N	2.52	0.42
51:BS:75:ARG:HG3	51:BS:75:ARG:HH11	1.84	0.42
34:BA:463:A:O3'	51:BS:80:PHE:O	2.37	0.42
52:BT:95:TYR:O	52:BT:96:GLN:C	2.57	0.42
53:BU:48:GLY:C	53:BU:49:LYS:HE3	2.31	0.42
53:BU:56:THR:CB	53:BU:58:LEU:HD12	2.47	0.42
55:BW:57:ARG:NH2	55:BW:102:GLY:HA3	2.34	0.42
55:BW:62:LEU:H	55:BW:62:LEU:CD2	2.15	0.42
35:BB:37:G:O5'	35:BB:37:G:C1'	2.67	0.42
10:AK:133:LEU:HG	10:AK:138:THR:HB	2.02	0.42
10:AK:99:ALA:O	10:AK:103:GLN:HG3	2.18	0.42
37:BE:135:GLN:O	37:BE:136:VAL:C	2.58	0.42
36:B1:37:C:O2'	36:B1:39:A:N6	2.51	0.42
21:AV:26:LYS:O	21:AV:27:GLU:OE2	2.37	0.42
2:AA:2899:G:C2'	2:AA:2900:A:O5'	2.67	0.42
9:AI:97:SER:HB2	9:AI:98:PRO:HD2	2.01	0.42
24:A0:54:LEU:HD12	24:A0:54:LEU:N	2.31	0.42
24:A0:90:ARG:NH2	24:A0:117:VAL:CG1	2.82	0.42
25:A1:102:GLU:HA	25:A1:103:PRO:HD2	1.44	0.42
25:A1:48:ARG:O	25:A1:52:ASN:ND2	2.52	0.42
25:A1:50:ARG:HH22	26:A2:74:TYR:N	2.17	0.42
2:AA:974:G:C8	26:A2:80:TYR:CD1	3.06	0.42
2:AA:2396:G:P	28:A4:28:ARG:CZ	3.07	0.42
28:A4:17:GLN:CB	28:A4:33:VAL:HB	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:A5:40:LYS:HZ1	29:A5:46:CYS:N	2.17	0.42
30:A6:21:TYR:HD2	30:A6:22:TYR:H	1.60	0.42
33:A9:27:CYS:HB3	33:A9:32:HIS:CB	2.49	0.42
33:A9:7:VAL:O	33:A9:8:LYS:HE3	2.19	0.42
2:AA:1013:C:OP2	2:AA:1014:U:OP1	2.37	0.42
2:AA:550:G:C2'	2:AA:1220:A:C2	3.02	0.42
2:AA:1259:G:O2'	2:AA:1260:G:O4'	2.33	0.42
2:AA:1305:C:H2'	2:AA:1306:C:C6	2.54	0.42
2:AA:1326:U:H5'	2:AA:2010:G:H21	1.84	0.42
2:AA:1358:G:H3'	2:AA:1371:G:H22	1.84	0.42
2:AA:1380:G:C2	2:AA:1381:G:C8	3.07	0.42
2:AA:120:U:H1'	2:AA:150:C:N1	2.35	0.42
2:AA:1555:G:P	2:AA:1555:G:C8	3.12	0.42
2:AA:1301:A:O3'	2:AA:1607:C:N4	2.52	0.42
2:AA:1615:C:N4	2:AA:1617:C:N1	2.67	0.42
2:AA:1681:G:C5'	2:AA:1682:G:OP2	2.67	0.42
2:AA:1686:C:O2	2:AA:1702:G:N1	2.47	0.42
2:AA:1767:C:C2	2:AA:1768:U:C6	3.07	0.42
2:AA:1779:U:C4	2:AA:1784:A:C2	3.08	0.42
2:AA:1817:G:C5'	2:AA:1817:G:C8	3.00	0.42
2:AA:1900:A:O2'	2:AA:1901:A:P	2.77	0.42
2:AA:1968:G:C2'	2:AA:1969:A:OP2	2.61	0.42
2:AA:1990:C:N3	2:AA:1991:U:O2	2.52	0.42
2:AA:2027:G:N9	2:AA:2037:G:N2	2.62	0.42
2:AA:2055:C:C5'	2:AA:2056:G:OP1	2.67	0.42
2:AA:2121:G:H2'	2:AA:2122:U:C5	2.46	0.42
2:AA:2124:G:H2'	2:AA:2125:G:C4	2.55	0.42
2:AA:2219:G:OP1	4:AD:184:LEU:HD22	2.18	0.42
2:AA:2269:A:C8	2:AA:2270:G:N7	2.87	0.42
2:AA:2517:C:H42	2:AA:2567:G:H1	1.65	0.42
2:AA:2594:C:H2'	2:AA:2595:G:O4'	2.17	0.42
2:AA:2606:C:C2	2:AA:2607:G:C8	3.07	0.42
2:AA:2634:G:C2	2:AA:2635:C:H6	2.37	0.42
2:AA:262:A:C2'	2:AA:263:C:C5'	2.97	0.42
2:AA:2662:A:N1	2:AA:2663:G:H1'	2.34	0.42
2:AA:2700:C:C2'	2:AA:2701:C:C5'	2.87	0.42
2:AA:270(X):G:C5	2:AA:270(Y):G:C1'	3.02	0.42
2:AA:2628:C:O2'	2:AA:2781:A:H3'	2.18	0.42
2:AA:2807:G:C8	2:AA:2808:U:H5	2.36	0.42
2:AA:2817:G:C5	2:AA:2818:G:N7	2.87	0.42
2:AA:307:G:H1	2:AA:310:A:H5"	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:318:C:O2	2:AA:334:C:O2	2.37	0.42
2:AA:365:C:C6	2:AA:365:C:C3'	3.02	0.42
2:AA:36:G:N1	2:AA:445:C:C2	2.88	0.42
2:AA:373:U:H2'	2:AA:374:A:OP2	2.19	0.42
2:AA:418:G:H2'	2:AA:419:C:O5'	2.19	0.42
2:AA:449(A):G:C6	2:AA:1450:C:C5	3.06	0.42
2:AA:460:A:H3'	2:AA:461:C:C5	2.55	0.42
2:AA:461:C:N3	2:AA:468:G:O6	2.53	0.42
2:AA:489:G:C6	2:AA:491:G:C5	3.07	0.42
2:AA:499:U:H2'	2:AA:500:G:O4'	2.19	0.42
2:AA:507:A:O4'	2:AA:509:C:C2	2.71	0.42
2:AA:529:A:H2	2:AA:2022:U:P	2.42	0.42
2:AA:563:G:C5'	2:AA:564:C:OP2	2.67	0.42
2:AA:579:G:N1	2:AA:580:C:C4	2.88	0.42
2:AA:587:C:H4'	2:AA:588:U:OP2	2.19	0.42
2:AA:593:G:C2	2:AA:594:U:N1	2.88	0.42
2:AA:61:G:H2'	2:AA:62:C:O5'	2.19	0.42
2:AA:641:C:H5	2:AA:642:G:C2	2.36	0.42
2:AA:653:A:N6	2:AA:655:A:N3	2.66	0.42
2:AA:69:C:O4'	2:AA:69:C:OP2	2.36	0.42
2:AA:703:U:H2'	2:AA:704:G:C1'	2.49	0.42
2:AA:778:G:C5	2:AA:779:U:C2	3.08	0.42
2:AA:671:C:C2	2:AA:809:G:N2	2.81	0.42
2:AA:815:C:N4	2:AA:816:C:H41	2.17	0.42
2:AA:929:G:C1'	23:AX:43:ILE:HG13	2.49	0.42
1:AB:18:G:P	7:AG:149:ARG:NE	2.91	0.42
1:AB:21:G:C2	1:AB:22:U:O2	2.72	0.42
1:AB:44:G:C5'	1:AB:45:A:OP1	2.59	0.42
3:AC:19:ILE:HD12	3:AC:223:ARG:HG2	2.01	0.42
4:AD:132:GLU:HB3	4:AD:133:ASN:H	1.62	0.42
5:AE:111:THR:O	5:AE:112:LEU:O	2.37	0.42
2:AA:1655:A:O3'	5:AE:212:GLY:CA	2.67	0.42
5:AE:268:LEU:HD23	5:AE:268:LEU:C	2.39	0.42
6:AF:206:ASN:O	6:AF:207:LEU:CG	2.67	0.42
6:AF:225:PRO:CB	6:AF:231:ARG:HE	2.20	0.42
6:AF:239:ALA:C	6:AF:241:ALA:N	2.69	0.42
7:AG:20:LYS:HB3	7:AG:133:ASN:ND2	2.34	0.42
7:AG:25:MET:O	7:AG:71:ALA:O	2.37	0.42
8:AH:137:LYS:CD	8:AH:138:GLN:H	2.20	0.42
8:AH:25:VAL:HG11	8:AH:74:MET:CB	2.47	0.42
8:AH:86:LEU:CD1	8:AH:86:LEU:C	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:118:LEU:HD12	9:AI:125:VAL:HG21	2.01	0.42
9:AI:19:ALA:O	9:AI:22:VAL:HB	2.19	0.42
10:AK:23:ASP:C	10:AK:25:TYR:N	2.73	0.42
10:AK:43:ASN:O	10:AK:46:ALA:HB3	2.20	0.42
2:AA:1079:C:O2'	11:AL:129:GLU:CD	2.57	0.42
12:AM:18:ILE:HG21	12:AM:21:ARG:HH11	1.84	0.42
12:AM:66:ASP:C	12:AM:68:GLY:N	2.73	0.42
13:AN:22:ILE:CB	13:AN:40:VAL:HG12	2.44	0.42
15:AP:142:LYS:CE	15:AP:143:VAL:N	2.74	0.42
15:AP:22:GLY:O	15:AP:23:ILE:CB	2.67	0.42
16:AQ:23:ARG:NH2	16:AQ:48:VAL:HG21	2.23	0.42
16:AQ:59:ALA:CB	16:AQ:91:ARG:NH1	2.79	0.42
18:AS:28:SER:OG	18:AS:31:GLU:CB	2.57	0.42
20:AU:31:LEU:CD1	20:AU:101:LEU:HB2	2.49	0.42
20:AU:61:GLU:HB2	20:AU:75:GLU:CG	2.49	0.42
21:AV:51:LEU:HD21	21:AV:65:LEU:HG	2.01	0.42
21:AV:66:VAL:CG2	21:AV:69:VAL:CG2	2.93	0.42
21:AV:71:MET:O	21:AV:78:PRO:CA	2.67	0.42
21:AV:81:VAL:CG1	21:AV:82:ASP:N	2.83	0.42
2:AA:851:U:H4'	23:AX:46:ASN:HA	2.02	0.42
34:BA:1021:G:N3	34:BA:1022:G:H1'	2.33	0.42
34:BA:1024:G:C2'	34:BA:1025:U:O5'	2.67	0.42
34:BA:1060:C:OP1	45:BM:51:ARG:HD3	2.19	0.42
34:BA:110:C:H2'	34:BA:111:G:H8	1.85	0.42
34:BA:1160:G:C2	34:BA:1161:C:C5	3.07	0.42
34:BA:1255:G:N2	34:BA:1259:C:O2	2.52	0.42
34:BA:1274:G:H21	34:BA:1275:A:N6	2.14	0.42
34:BA:1224:G:O6	34:BA:1322:C:O4'	2.37	0.42
34:BA:1357:A:H61	34:BA:1363:A:H2	1.61	0.42
34:BA:926:G:N3	34:BA:1505:G:C2	2.87	0.42
34:BA:926:G:C2'	34:BA:1505:G:H21	2.28	0.42
34:BA:1511:G:C5	34:BA:1512:U:C5	3.06	0.42
34:BA:167:G:O2'	34:BA:168:G:C5'	2.61	0.42
34:BA:325:A:H2'	34:BA:326:G:O5'	2.18	0.42
34:BA:332:G:C2'	34:BA:333:G:O5'	2.67	0.42
34:BA:411:A:C8	34:BA:413:G:C8	3.07	0.42
34:BA:449:C:C5	34:BA:450:G:C4	3.07	0.42
34:BA:46:G:C2	34:BA:396:G:C6	3.07	0.42
34:BA:373:A:C5	34:BA:482:A:C5	3.06	0.42
34:BA:571:U:OP1	34:BA:819:A:C2'	2.67	0.42
34:BA:690:G:C6	34:BA:691:G:N3	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:748:C:C3'	34:BA:748:C:C6	3.02	0.42
34:BA:770:C:H1'	34:BA:900:A:C2	2.54	0.42
34:BA:860:A:N6	34:BA:861:G:C2	2.88	0.42
34:BA:925:G:O2'	34:BA:927:G:H5''	2.19	0.42
34:BA:962:C:C5	34:BA:963:G:C8	3.07	0.42
34:BA:969:A:C2	34:BA:970:C:N1	2.88	0.42
34:BA:992:U:C4'	34:BA:993:G:O5'	2.57	0.42
34:BA:995:C:O2'	49:BQ:4:LYS:NZ	2.52	0.42
35:BB:51:G:C2	35:BB:52:U:C2	3.07	0.42
35:BB:50:U:C2	35:BB:65:G:N2	2.87	0.42
37:BE:153:ARG:HH22	37:BE:156:LYS:HB2	1.84	0.42
37:BE:18:GLY:HA2	37:BE:42:ILE:N	2.25	0.42
37:BE:223:ILE:C	37:BE:226:ARG:HB2	2.39	0.42
37:BE:32:ILE:HD11	37:BE:40:HIS:CG	2.54	0.42
37:BE:59:GLU:O	37:BE:62:ALA:HB3	2.19	0.42
37:BE:61:LEU:CD2	37:BE:66:GLY:O	2.67	0.42
38:BF:77:ILE:CG2	38:BF:81:GLY:HA2	2.49	0.42
41:BI:32:ASN:ND2	41:BI:32:ASN:H	2.17	0.42
41:BI:57:GLN:CA	41:BI:57:GLN:HE21	2.31	0.42
41:BI:7:ASN:HD21	41:BI:62:TRP:HD1	1.66	0.42
42:BJ:28:ASN:O	42:BJ:31:MET:CB	2.67	0.42
34:BA:1373:G:H5''	42:BJ:36:LYS:HB2	1.98	0.42
42:BJ:42:ILE:HG21	42:BJ:116:ALA:HB1	2.01	0.42
45:BM:26:ALA:C	45:BM:28:ARG:H	2.22	0.42
34:BA:1524:C:OP1	46:BN:120:ARG:NH2	2.52	0.42
48:BP:37:THR:HG23	48:BP:37:THR:O	2.20	0.42
48:BP:24:GLY:CA	48:BP:66:LEU:HB3	2.34	0.42
48:BP:90:LEU:CD2	48:BP:93:ARG:NH1	2.78	0.42
49:BQ:41:ARG:CA	49:BQ:44:LEU:HD23	2.46	0.42
50:BR:11:VAL:HB	50:BR:12:ILE:H	1.61	0.42
50:BR:62:GLN:O	50:BR:63:ARG:C	2.57	0.42
50:BR:71:GLN:HB2	50:BR:78:TYR:CD2	2.54	0.42
53:BU:45:SER:C	53:BU:46:GLU:CD	2.77	0.42
46:BN:84:VAL:CG2	53:BU:88:LYS:HZ1	2.31	0.42
35:BB:37:G:C8	35:BB:39:U:O4	2.73	0.42
2:AA:276:A:OP2	2:AA:276:A:O4'	2.37	0.42
2:AA:534:U:H5''	25:A1:46:GLU:HG2	1.99	0.42
2:AA:1155:A:OP1	25:A1:55:ARG:HD3	2.18	0.42
26:A2:10:LYS:O	26:A2:11:GLN:C	2.57	0.42
26:A2:35:LEU:HD12	26:A2:63:HIS:NE2	2.34	0.42
27:A3:24:LYS:HE2	27:A3:56:ASP:CG	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:A3:33:ALA:CB	27:A3:66:LYS:N	2.83	0.42
27:A3:44:LYS:CB	27:A3:45:PHE:CD1	2.98	0.42
29:A5:33:CYS:CB	29:A5:34:PRO:HD2	2.42	0.42
30:A6:16:ALA:CB	30:A6:19:GLY:HA3	2.50	0.42
30:A6:40:TYR:CB	30:A6:50:PHE:CE2	3.03	0.42
30:A6:40:TYR:N	30:A6:50:PHE:CD1	2.87	0.42
31:A7:22:MET:O	31:A7:23:LYS:C	2.57	0.42
31:A7:39:ARG:O	31:A7:40:HIS:HB2	2.19	0.42
2:AA:1031:G:O6	2:AA:1032:A:N6	2.52	0.42
2:AA:1044:G:C5'	2:AA:1047:G:H4'	2.49	0.42
2:AA:1105:U:H4'	9:AI:30:GLY:CA	2.46	0.42
2:AA:1213:A:C6	2:AA:1237:A:N9	2.87	0.42
2:AA:1237:A:C2'	2:AA:1238:G:OP2	2.67	0.42
2:AA:131:G:H2'	2:AA:131:G:N3	2.34	0.42
2:AA:1286:A:C4	2:AA:1329:U:N3	2.87	0.42
2:AA:1424:G:H8	2:AA:1424:G:OP2	2.01	0.42
2:AA:1528:A:C2'	2:AA:1529:A:H4'	2.49	0.42
2:AA:1613:G:N2	2:AA:1619:G:N9	2.67	0.42
2:AA:1303:G:N2	2:AA:1626:G:H1'	2.34	0.42
2:AA:1858:G:C8	2:AA:1858:G:OP2	2.73	0.42
2:AA:1972:A:N3	2:AA:1973:G:N7	2.67	0.42
2:AA:1998:G:H2'	2:AA:1999:C:O5'	2.18	0.42
2:AA:2015:A:N7	29:A5:6:VAL:HG21	2.33	0.42
2:AA:2259:G:N7	2:AA:2260:C:C5	2.88	0.42
2:AA:2263:C:C3'	2:AA:2263:C:C6	3.01	0.42
2:AA:2295:C:H2'	2:AA:2296:U:C4'	2.50	0.42
2:AA:2309:A:P	2:AA:2309:A:O4'	2.77	0.42
2:AA:2392:A:C2	2:AA:2429:G:C5	3.08	0.42
2:AA:2417:C:H2'	2:AA:2418:A:C5'	2.50	0.42
2:AA:2431:U:C2	2:AA:2433:A:OP2	2.73	0.42
2:AA:2509:G:H2'	2:AA:2510:C:O4'	2.19	0.42
2:AA:2513:G:C2	2:AA:2514:U:C2	3.07	0.42
2:AA:2548:G:N2	2:AA:2560:C:N3	2.46	0.42
2:AA:2565:A:O5'	2:AA:2566:A:OP2	2.38	0.42
2:AA:2653:U:H3'	2:AA:2654:A:N7	2.35	0.42
2:AA:2657:A:N1	2:AA:2665:A:C8	2.87	0.42
2:AA:2694:G:C2	2:AA:2695:C:C6	3.07	0.42
2:AA:2695:C:O2'	2:AA:2696:U:O4'	2.38	0.42
2:AA:270:A:H8	2:AA:270:A:O5'	2.03	0.42
2:AA:2733:A:N6	2:AA:2734:A:C6	2.87	0.42
2:AA:2795:G:N3	2:AA:2795:G:C2'	2.79	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2799:A:H2'	2:AA:2802:G:C6	2.54	0.42
2:AA:2868:A:O2'	2:AA:2869:G:C5'	2.61	0.42
2:AA:2888:C:H2'	2:AA:2889:C:C6	2.53	0.42
2:AA:387:U:O3'	28:A4:23:GLU:CD	2.57	0.42
2:AA:430:G:O5'	2:AA:430:G:C8	2.71	0.42
2:AA:514:A:C4	2:AA:515:A:N7	2.88	0.42
2:AA:529:A:C2	2:AA:2022:U:H5''	2.54	0.42
2:AA:533:G:H2'	2:AA:534:U:C1'	2.49	0.42
2:AA:558:G:H2'	2:AA:559:G:H8	1.85	0.42
2:AA:565:C:O4'	2:AA:1252:G:O6	2.37	0.42
2:AA:598:G:H21	6:AF:33:LYS:CE	2.32	0.42
2:AA:611:C:C2'	2:AA:611:C:O2	2.66	0.42
2:AA:693:C:C2	2:AA:694:U:C5	3.07	0.42
2:AA:711:G:H2'	2:AA:712:G:C5'	2.49	0.42
2:AA:741:G:C2	2:AA:757:U:H1'	2.54	0.42
2:AA:785:G:C2	2:AA:786:C:C4	3.08	0.42
2:AA:751:A:C2	2:AA:789:A:C5	3.08	0.42
2:AA:809:G:C6	2:AA:810:U:C4	3.07	0.42
2:AA:873:G:C2	2:AA:905:U:C2	3.07	0.42
2:AA:935:C:H2'	2:AA:936:C:C6	2.54	0.42
1:AB:16:G:C5	1:AB:17:C:C5	3.07	0.42
3:AC:100:ILE:O	3:AC:126:LYS:HD3	2.19	0.42
3:AC:155:GLU:O	3:AC:156:ILE:C	2.57	0.42
2:AA:1818:U:H5	4:AD:155:ARG:NH2	2.18	0.42
2:AA:1568:G:C3'	4:AD:60:GLN:CG	2.97	0.42
4:AD:85:ASN:H	4:AD:85:ASN:HD22	1.55	0.42
5:AE:194:ARG:HB2	5:AE:195:ALA:H	1.31	0.42
2:AA:2052:G:N3	5:AE:246:VAL:HG23	2.34	0.42
2:AA:2514:U:C4'	5:AE:247:ARG:NH1	2.82	0.42
6:AF:138:VAL:C	6:AF:139:VAL:HG23	2.39	0.42
7:AG:139:TYR:CE1	7:AG:156:ARG:HA	2.54	0.42
7:AG:18:ILE:HG22	7:AG:18:ILE:O	2.17	0.42
8:AH:119:GLY:O	8:AH:121:GLU:CD	2.57	0.42
9:AI:103:LYS:HD3	9:AI:114:ILE:HD13	2.02	0.42
9:AI:13:LEU:HD13	9:AI:21:LEU:HD12	2.01	0.42
9:AJ:13:LEU:CD2	9:AJ:17:GLU:CD	2.88	0.42
9:AJ:76:VAL:CG1	9:AJ:118:LEU:HD23	2.50	0.42
11:AL:132:ALA:HA	11:AL:137:ILE:CD1	2.50	0.42
11:AL:19:THR:H	11:AL:20:PRO:HD3	1.82	0.42
11:AL:93:LYS:CA	11:AL:96:ILE:HG13	2.48	0.42
12:AM:42:GLU:OE2	12:AM:105:LEU:O	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:60:ARG:O	12:AM:71:TYR:CB	2.68	0.42
2:AA:2640:G:H4'	12:AM:70:PHE:CD2	2.54	0.42
13:AN:77:ILE:O	13:AN:77:ILE:HG23	2.19	0.42
13:AN:7:ARG:CB	13:AN:44:LYS:HZ1	2.29	0.42
15:AP:101:MET:CE	15:AP:101:MET:C	2.88	0.42
15:AP:83:PHE:HA	15:AP:136:TRP:CZ2	2.55	0.42
16:AQ:19:ASP:HB2	16:AQ:22:GLN:CG	2.49	0.42
18:AS:15:ARG:O	18:AS:18:ARG:N	2.53	0.42
21:AV:5:ALA:C	21:AV:33:ALA:HB2	2.32	0.42
21:AV:68:ALA:C	21:AV:69:VAL:CG2	2.87	0.42
21:AV:74:ARG:C	21:AV:76:ARG:H	2.22	0.42
21:AV:90:GLU:H	21:AV:91:PRO:CD	2.32	0.42
22:AW:49:LEU:HA	22:AW:49:LEU:HD23	1.80	0.42
23:AX:11:SER:OG	23:AX:13:ILE:HD11	2.19	0.42
2:AA:969:U:C4'	23:AX:14:GLY:O	2.66	0.42
34:BA:1538:C:O2	36:B1:52:A:C2	2.72	0.42
34:BA:1034:G:C2'	34:BA:1035:A:H8	2.29	0.42
34:BA:1093:A:C2	34:BA:1095:U:O4'	2.73	0.42
34:BA:1111:A:N1	38:BF:177:THR:OG1	2.39	0.42
34:BA:1267:C:C6	34:BA:1267:C:C3'	3.02	0.42
34:BA:1294:G:C2	34:BA:1295:G:C5	3.08	0.42
34:BA:1305:G:O4'	34:BA:1305:G:P	2.77	0.42
34:BA:1409:C:N4	34:BA:1410:G:O6	2.52	0.42
34:BA:1410:G:H2'	34:BA:1411:C:C6	2.54	0.42
34:BA:1531:A:C4	34:BA:1532:U:C4	3.08	0.42
34:BA:162:A:H2'	34:BA:163:C:H5'	2.01	0.42
34:BA:138:G:N2	34:BA:226:G:C1'	2.83	0.42
34:BA:22:G:C2	34:BA:23:C:N3	2.87	0.42
34:BA:257:G:C6	34:BA:258:G:N7	2.88	0.42
34:BA:306:G:C2	34:BA:307:C:C6	3.07	0.42
34:BA:392:G:C6	34:BA:393:A:N7	2.88	0.42
34:BA:444:C:N3	34:BA:491:G:C2	2.87	0.42
34:BA:501:C:C3'	34:BA:501:C:C6	3.02	0.42
34:BA:594:G:N2	34:BA:596:C:H41	2.18	0.42
34:BA:607:A:C5	34:BA:608:A:C8	3.08	0.42
34:BA:293:G:H4'	34:BA:609:A:C2	2.54	0.42
34:BA:629:G:C4	34:BA:630:G:C8	3.07	0.42
34:BA:643:C:C4	34:BA:644:G:N7	2.87	0.42
34:BA:666:G:O2'	34:BA:667:G:H5'	2.20	0.42
34:BA:766:A:C5	34:BA:814:A:N1	2.87	0.42
34:BA:769:G:H5'	34:BA:1513:A:H4'	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:790:A:C6	34:BA:791:G:N1	2.87	0.42
34:BA:809:G:C2'	34:BA:810:C:O5'	2.67	0.42
34:BA:837:G:C2	34:BA:838:G:C4	3.06	0.42
34:BA:836:G:C2	34:BA:837:G:N9	2.88	0.42
34:BA:964:A:N3	34:BA:969:A:C1'	2.74	0.42
34:BA:970:C:H2'	34:BA:1231:G:H1'	2.01	0.42
35:BB:54:U:H6	35:BB:54:U:H5'	1.84	0.42
35:BC:51:G:N2	35:BC:63:C:C2	2.82	0.42
37:BE:145:LEU:CD1	37:BE:149:LEU:HD12	2.49	0.42
37:BE:192:SER:C	37:BE:194:PRO:CD	2.87	0.42
38:BF:120:VAL:HG22	38:BF:137:ALA:HB2	2.01	0.42
38:BF:26:LYS:N	38:BF:26:LYS:CD	2.70	0.42
34:BA:408:A:H5'	39:BG:116:GLN:HG3	2.01	0.42
39:BG:33:MET:HE2	39:BG:33:MET:HB3	1.92	0.42
39:BG:53:ASP:O	39:BG:56:VAL:CB	2.47	0.42
39:BG:58:LEU:HD22	39:BG:62:GLN:HG2	2.00	0.42
39:BG:76:ARG:O	39:BG:79:PHE:N	2.53	0.42
39:BG:85:LYS:O	39:BG:86:LYS:C	2.58	0.42
41:BI:10:LEU:HD21	41:BI:26:ILE:CD1	2.42	0.42
41:BI:85:VAL:CG1	41:BI:88:VAL:CG2	2.96	0.42
42:BJ:114:ARG:CG	42:BJ:114:ARG:NH1	2.74	0.42
42:BJ:136:LYS:O	42:BJ:138:LYS:N	2.52	0.42
42:BJ:28:ASN:OD1	42:BJ:31:MET:CE	2.67	0.42
42:BJ:65:ALA:O	42:BJ:68:ASN:HB2	2.19	0.42
43:BK:29:SER:N	43:BK:32:LYS:HZ3	2.17	0.42
43:BK:60:ARG:HG2	43:BK:61:VAL:N	2.35	0.42
43:BK:65:TYR:HA	43:BK:79:VAL:HG23	2.00	0.42
44:BL:116:LYS:CD	44:BL:116:LYS:N	2.79	0.42
44:BL:116:LYS:O	44:BL:117:HIS:C	2.57	0.42
44:BL:5:TYR:CD1	44:BL:18:PHE:CE2	3.07	0.42
44:BL:22:GLY:H	44:BL:59:PHE:HA	1.84	0.42
44:BL:17:VAL:HA	44:BL:63:ILE:CG1	2.49	0.42
44:BL:65:VAL:O	44:BL:66:ARG:HB2	2.19	0.42
46:BN:11:LYS:N	46:BN:13:GLN:HE21	2.18	0.42
46:BN:16:SER:HA	46:BN:79:SER:O	2.20	0.42
46:BN:28:THR:O	46:BN:44:SER:CB	2.59	0.42
46:BN:99:GLN:HA	46:BN:105:VAL:HG21	1.98	0.42
47:BO:44:THR:HG22	47:BO:45:PRO:N	2.34	0.42
48:BP:48:LEU:HD23	48:BP:48:LEU:C	2.39	0.42
48:BP:55:ARG:C	48:BP:57:ARG:N	2.71	0.42
48:BP:81:LEU:HA	48:BP:84:ILE:CD1	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BR:12:ILE:HG23	50:BR:27:VAL:HG11	2.01	0.42
50:BR:29:VAL:HG11	50:BR:81:LEU:CD2	2.44	0.42
50:BR:36:ILE:CG2	50:BR:37:ASN:ND2	2.81	0.42
50:BR:36:ILE:O	50:BR:39:LEU:HB3	2.19	0.42
50:BR:40:SER:O	50:BR:44:LYS:CE	2.67	0.42
50:BR:25:THR:CG2	50:BR:66:LEU:HD12	2.49	0.42
50:BR:76:GLU:C	50:BR:78:TYR:H	2.21	0.42
34:BA:229:U:O3'	51:BS:33:ILE:HD13	2.19	0.42
52:BT:52:LYS:HB2	52:BT:52:LYS:HE3	1.78	0.42
53:BU:25:THR:HG22	53:BU:42:ARG:HH22	1.80	0.42
34:BA:1326:C:OP2	56:BX:6:ARG:HD2	2.19	0.42
35:BB:22:G:H2'	35:BB:23:A:N7	2.28	0.42
8:AH:167:LEU:CD1	8:AH:169:ARG:HH12	2.31	0.42
36:B1:35:C:H2'	36:B1:36:A:C8	2.54	0.42
39:BG:187:ARG:CG	39:BG:188:LEU:N	2.80	0.42
10:AK:91:GLY:O	10:AK:92:SER:O	2.38	0.42
25:A1:86:ALA:HB1	25:A1:90:LEU:HD23	2.00	0.42
26:A2:50:ASP:OD1	26:A2:50:ASP:N	2.52	0.42
26:A2:61:VAL:HG22	26:A2:98:ILE:H	1.85	0.42
27:A3:31:VAL:HG13	27:A3:32:LYS:N	2.33	0.42
28:A4:58:LYS:CB	28:A4:62:ARG:HH21	2.31	0.42
29:A5:40:LYS:HE3	29:A5:49:CYS:SG	2.59	0.42
31:A7:28:ARG:O	31:A7:31:LEU:N	2.53	0.42
2:AA:1000:A:H2'	2:AA:1001:A:C1'	2.49	0.42
2:AA:103:A:C2'	2:AA:104:U:O5'	2.68	0.42
2:AA:122:G:N2	2:AA:130:C:N1	2.67	0.42
2:AA:126:A:O2'	2:AA:127:A:H5'	2.19	0.42
2:AA:1370:C:N3	2:AA:1371:G:C8	2.88	0.42
2:AA:1427:A:O2'	2:AA:1428:C:OP2	2.37	0.42
2:AA:1490:A:H2'	2:AA:1490:A:N3	2.34	0.42
2:AA:1495:A:C5	2:AA:1496:A:N6	2.88	0.42
2:AA:1527:G:C8	2:AA:1527:G:P	3.13	0.42
2:AA:1534:G:H2'	2:AA:1535:U:H5'	2.01	0.42
2:AA:1694:C:HO2'	2:AA:1695:G:H5''	1.83	0.42
2:AA:729:G:C2	2:AA:1775:U:C2	3.07	0.42
2:AA:1779:U:C5	2:AA:1784:A:N1	2.75	0.42
2:AA:1788:C:C2'	2:AA:1789:A:O5'	2.67	0.42
2:AA:1819:A:O4'	2:AA:1821:A:N7	2.51	0.42
2:AA:1927:A:H2'	2:AA:1928:A:C1'	2.49	0.42
2:AA:1932:A:C2	2:AA:1933:G:N9	2.88	0.42
2:AA:2004:G:N7	2:AA:2005:A:C5	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2014:A:C5	2:AA:2015:A:N6	2.88	0.42
2:AA:2038:G:C5	2:AA:2039:C:C5	3.08	0.42
2:AA:196:A:C2	2:AA:2068:U:C5	3.07	0.42
2:AA:2088:G:C2'	2:AA:2089:U:O5'	2.66	0.42
2:AA:2090:G:C6	2:AA:2091:U:O4	2.72	0.42
2:AA:2119:A:P	2:AA:2120:G:C5'	3.04	0.42
2:AA:2210:G:N2	4:AD:69:ASP:HB3	2.35	0.42
2:AA:2217:G:C2	2:AA:2218:G:N7	2.87	0.42
2:AA:2269:A:H2'	2:AA:2270:G:O5'	2.19	0.42
2:AA:2287:A:N6	2:AA:2289:G:C4	2.88	0.42
2:AA:242:G:C8	2:AA:254:G:O6	2.72	0.42
2:AA:2436:G:H2'	2:AA:2437:U:C5'	2.49	0.42
2:AA:2472:G:C2	2:AA:2475:C:C2	3.08	0.42
2:AA:2476:A:H2'	2:AA:2477:C:C5'	2.49	0.42
2:AA:2467:C:N3	2:AA:2484:G:O6	2.52	0.42
2:AA:2494:G:C2	2:AA:2495:G:C8	3.08	0.42
2:AA:2522:U:H2'	2:AA:2522:U:O2	2.19	0.42
2:AA:2734:A:H8	2:AA:2734:A:C5'	2.32	0.42
2:AA:2740:A:C5	2:AA:2741:A:C5	3.07	0.42
2:AA:2769:C:C2'	2:AA:2770:G:C5'	2.93	0.42
2:AA:2771:C:C2'	2:AA:2771:C:O2	2.66	0.42
2:AA:2836:U:H6	2:AA:2836:U:H5'	1.85	0.42
2:AA:2863:C:HO2'	2:AA:2864:G:H5'	1.82	0.42
2:AA:2889:C:C2	2:AA:2891:G:C8	3.08	0.42
2:AA:300:A:C4	2:AA:319:C:H1'	2.54	0.42
2:AA:303:U:C2	2:AA:304:G:N7	2.87	0.42
2:AA:301:G:H5''	2:AA:334:C:H2'	2.02	0.42
2:AA:33:U:H1'	2:AA:34:C:H5	1.84	0.42
2:AA:462:C:C4	2:AA:468:G:C2	3.06	0.42
2:AA:498:G:OP2	2:AA:498:G:C8	2.71	0.42
2:AA:568:U:O4	2:AA:973:A:H5'	2.20	0.42
2:AA:618:G:C6	2:AA:618(A):C:N4	2.87	0.42
2:AA:670:A:C4'	2:AA:671:C:OP1	2.66	0.42
2:AA:683:C:H6	2:AA:683:C:O5'	2.01	0.42
2:AA:768:G:HO2'	2:AA:769:G:H5'	1.84	0.42
2:AA:778:G:N2	2:AA:787:U:N1	2.67	0.42
2:AA:684:G:HO2'	2:AA:788:A:H62	1.63	0.42
2:AA:859:G:H2'	2:AA:2268:A:C2	2.54	0.42
2:AA:864:G:N3	2:AA:865:C:C6	2.87	0.42
2:AA:877:U:C6	2:AA:877:U:O5'	2.66	0.42
2:AA:882:G:N1	2:AA:894:C:N4	2.30	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:910:A:C2'	2:AA:911:A:O5'	2.68	0.42
2:AA:911:A:OP1	2:AA:912:C:C6	2.73	0.42
2:AA:974(A):C:C1'	2:AA:989:G:H1	2.23	0.42
1:AB:69:G:C6	1:AB:70:C:C4	3.08	0.42
3:AC:108:MET:HE1	3:AC:130:ILE:O	2.19	0.42
3:AC:118:ASP:O	3:AC:119:VAL:CG1	2.68	0.42
4:AD:64:ILE:CG1	4:AD:102:TYR:HB2	2.49	0.42
5:AE:226:HIS:CD2	5:AE:229:GLN:OE1	2.72	0.42
6:AF:154:VAL:O	6:AF:158:GLU:OE2	2.37	0.42
6:AF:167:ASP:OD2	6:AF:231:ARG:HA	2.19	0.42
6:AF:194:PHE:HB3	6:AF:212:VAL:HG22	2.01	0.42
6:AF:98:ARG:HG2	6:AF:98:ARG:H	1.45	0.42
7:AG:71:ALA:C	7:AG:72:LYS:CG	2.88	0.42
8:AH:34:ARG:NH1	8:AH:36:PHE:HZ	2.17	0.42
9:AI:74:ILE:CG1	9:AI:92:VAL:HG11	2.49	0.42
9:AI:39:VAL:CG2	9:AJ:39:VAL:HG13	2.47	0.42
9:AJ:59:PHE:HZ	9:AJ:108:LYS:HE2	1.83	0.42
9:AJ:73:VAL:O	9:AJ:77:VAL:HG23	2.19	0.42
11:AL:121:LEU:O	11:AL:125:MET:HG2	2.20	0.42
11:AL:79:LEU:HD11	11:AL:132:ALA:CB	2.50	0.42
11:AL:32:GLY:O	11:AL:60:VAL:CG1	2.62	0.42
11:AL:53:ILE:H	11:AL:53:ILE:HG13	1.60	0.42
11:AL:93:LYS:HD2	21:AV:108:VAL:O	2.19	0.42
12:AM:98:PHE:O	12:AM:99:GLU:C	2.56	0.42
13:AN:38:VAL:HG22	13:AN:61:VAL:HG22	2.02	0.42
13:AN:63:VAL:N	13:AN:84:CYS:SG	2.86	0.42
14:AO:61:ALA:CB	14:AO:107:LYS:HE2	2.50	0.42
14:AO:69:ILE:HA	14:AO:73:VAL:HG23	2.01	0.42
15:AP:45:GLN:CG	15:AP:152:SER:O	2.67	0.42
15:AP:44:ALA:HB1	15:AP:156:ASN:O	2.20	0.42
15:AP:35:ASN:O	15:AP:126:VAL:HG23	2.19	0.42
15:AP:42:TYR:HB2	15:AP:43:PRO:HD3	2.02	0.42
17:AR:29:THR:HB	17:AR:31:PHE:CE1	2.54	0.42
19:AT:19:ASP:OD1	19:AT:20:PHE:N	2.53	0.42
19:AT:23:LYS:CA	19:AT:67:ARG:HA	2.50	0.42
2:AA:138:G:C8	19:AT:39:ASP:OD1	2.73	0.42
19:AT:56:ASN:O	19:AT:57:THR:CG2	2.61	0.42
20:AU:19:ARG:N	20:AU:21:LYS:NZ	2.66	0.42
20:AU:23:VAL:O	20:AU:24:ARG:C	2.57	0.42
21:AV:118:HIS:CD2	21:AV:168:VAL:CG2	3.03	0.42
21:AV:79:ILE:C	21:AV:80:HIS:CG	2.92	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AW:19:GLU:O	22:AW:20:LEU:C	2.54	0.42
2:AA:850:C:C5'	23:AX:18:ASP:HB2	2.49	0.42
36:B1:49:A:O2'	36:B1:50:G:H5'	2.20	0.42
34:BA:1043:C:N3	34:BA:1044:A:N7	2.67	0.42
34:BA:1166:G:H1'	34:BA:1169:A:N6	2.32	0.42
34:BA:1117:G:N1	34:BA:1184:G:C6	2.88	0.42
34:BA:1108:G:H4'	34:BA:1191:A:H1'	2.01	0.42
34:BA:1226:C:H5''	48:BP:103:THR:O	2.20	0.42
34:BA:1432:G:N1	34:BA:1467:G:C6	2.88	0.42
34:BA:266:G:O2'	34:BA:267:C:P	2.77	0.42
34:BA:292:G:N7	34:BA:293:G:H1'	2.34	0.42
34:BA:49:U:O4	34:BA:362:G:N3	2.53	0.42
34:BA:386:C:C3'	34:BA:386:C:C6	3.02	0.42
34:BA:389:A:C6	34:BA:390:C:C1'	3.02	0.42
34:BA:399:G:O2'	34:BA:400:C:H5'	2.19	0.42
34:BA:401:C:OP2	39:BG:73:ARG:NH2	2.49	0.42
34:BA:410:G:C2	34:BA:429:U:C2	3.07	0.42
34:BA:456:C:N4	34:BA:476:G:H1	2.18	0.42
34:BA:445:G:N1	34:BA:490:G:C6	2.88	0.42
34:BA:521:G:N2	34:BA:522:C:C2	2.88	0.42
34:BA:517:G:N2	34:BA:532:A:O3'	2.36	0.42
34:BA:52:G:HO2'	34:BA:53:A:H5'	1.82	0.42
34:BA:577:G:O2'	34:BA:578:C:H5'	2.19	0.42
34:BA:583:A:O2'	34:BA:584:G:C5'	2.67	0.42
34:BA:616:G:H2'	34:BA:617:G:H5'	2.01	0.42
34:BA:694:A:C2	34:BA:695:A:C4	3.07	0.42
35:BB:18:G:N1	35:BB:57:G:N2	2.58	0.42
35:BB:36:A:N6	36:B1:65:U:O2	2.44	0.42
35:BB:50:U:C4	35:BB:65:G:N1	2.88	0.42
35:BC:31:A:C5	35:BC:32:C:C5	3.07	0.42
37:BE:155:LEU:HB3	37:BE:159:PRO:HG3	1.98	0.42
37:BE:16:HIS:CE1	37:BE:209:ARG:HH11	2.37	0.42
37:BE:219:VAL:O	37:BE:222:ILE:HG23	2.20	0.42
37:BE:56:ARG:HB2	37:BE:56:ARG:NH1	2.33	0.42
38:BF:76:VAL:O	38:BF:83:ARG:CG	2.67	0.42
39:BG:43:HIS:HB3	39:BG:46:LYS:CG	2.41	0.42
40:BH:105:VAL:CG1	40:BH:106:PRO:HD3	2.48	0.42
40:BH:65:ASN:ND2	40:BH:136:MET:HE2	2.18	0.42
41:BI:96:PRO:O	53:BU:32:ARG:NH2	2.52	0.42
42:BJ:97:GLN:O	42:BJ:98:SER:C	2.57	0.42
43:BK:8:ASP:C	43:BK:8:ASP:OD2	2.57	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BL:116:LYS:HA	44:BL:121:ARG:O	2.20	0.42
44:BL:5:TYR:CE1	44:BL:18:PHE:CZ	3.07	0.42
45:BM:7:LYS:HG3	45:BM:71:LEU:HD22	1.98	0.42
47:BO:7:ILE:O	47:BO:10:LEU:HB2	2.20	0.42
49:BQ:29:ARG:HH11	49:BQ:42:ILE:CD1	2.25	0.42
34:BA:976:G:OP1	49:BQ:32:SER:HA	2.18	0.42
50:BR:50:HIS:O	50:BR:51:HIS:C	2.57	0.42
34:BA:276:G:OP1	52:BT:20:THR:HG21	2.20	0.42
10:AK:108:LEU:O	10:AK:109:LYS:HE2	2.19	0.42
10:AK:117:LEU:O	10:AK:118:ALA:C	2.56	0.42
10:AK:116:GLU:OE2	10:AK:130:PRO:C	2.57	0.42
47:BO:126:LYS:C	47:BO:127:GLU:HG3	2.39	0.42
2:AA:2108:C:C5	2:AA:2109:U:O4	2.73	0.42
12:AM:31:LEU:C	12:AM:33:GLY:N	2.72	0.42
2:AA:1502:C:C2	2:AA:1503:U:C6	3.07	0.42
24:A0:105:ARG:CB	24:A0:105:ARG:NH1	2.80	0.42
24:A0:113:LEU:C	24:A0:113:LEU:CD1	2.88	0.42
24:A0:27:SER:O	24:A0:30:THR:CB	2.67	0.42
25:A1:23:GLY:O	25:A1:24:PHE:O	2.38	0.42
25:A1:28:ARG:HB3	25:A1:28:ARG:CZ	2.47	0.42
26:A2:39:PHE:CZ	26:A2:42:GLY:HA2	2.54	0.42
26:A2:76:SER:HG	26:A2:84:THR:C	2.16	0.42
26:A2:78:VAL:O	26:A2:80:TYR:N	2.52	0.42
26:A2:63:HIS:N	26:A2:95:ILE:HG23	2.34	0.42
27:A3:29:GLU:O	27:A3:31:VAL:CB	2.67	0.42
27:A3:60:PHE:CA	27:A3:81:ILE:HD13	2.50	0.42
27:A3:36:ILE:HG12	27:A3:72:LYS:CE	2.49	0.42
28:A4:5:LEU:O	28:A4:56:VAL:CG1	2.54	0.42
29:A5:14:SER:OG	29:A5:15:LYS:N	2.53	0.42
31:A7:44:VAL:C	31:A7:46:ASP:N	2.69	0.42
32:A8:21:LYS:O	32:A8:22:VAL:HG23	2.20	0.42
2:AA:1027:A:H2	2:AA:2487:G:O2'	2.02	0.42
2:AA:1078:U:O2	2:AA:1088:A:H4'	2.20	0.42
2:AA:1128:A:HO2'	2:AA:1129:A:P	2.42	0.42
2:AA:1136:G:C2	2:AA:1137:G:N9	2.88	0.42
2:AA:1153:C:C2'	2:AA:1153:C:O2	2.64	0.42
2:AA:993:G:O6	2:AA:1161:C:N3	2.52	0.42
2:AA:1249:U:C3'	2:AA:1249:U:C6	3.02	0.42
2:AA:1303:G:N7	2:AA:1304:C:C5	2.87	0.42
2:AA:1330:C:H2'	2:AA:1330:C:O2	2.18	0.42
2:AA:1409:C:C2	2:AA:1594:G:N2	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1526:G:P	2:AA:1527:G:OP1	2.77	0.42
2:AA:1443:G:O6	2:AA:1548:C:N3	2.53	0.42
2:AA:1568:G:P	4:AD:60:GLN:CB	3.08	0.42
2:AA:1414:G:N1	2:AA:1588:C:C4	2.73	0.42
2:AA:1609:A:C8	2:AA:1616:A:N3	2.87	0.42
2:AA:1625:C:C5	2:AA:1626:G:C8	3.07	0.42
2:AA:1649:G:O6	2:AA:2009:G:C6	2.73	0.42
2:AA:175:G:C4	2:AA:176:G:C8	3.06	0.42
2:AA:48:G:N2	2:AA:178:G:C6	2.87	0.42
2:AA:1806:C:C4	2:AA:1807:G:N7	2.88	0.42
2:AA:1943:U:N3	2:AA:1945:G:O4'	2.53	0.42
2:AA:1660:C:C2	2:AA:2001:A:C2	3.08	0.42
2:AA:2018:G:C2	2:AA:2019:A:C1'	3.03	0.42
2:AA:2031:A:O4'	2:AA:2031:A:P	2.78	0.42
2:AA:2092:U:H5	2:AA:2227:A:C6	2.32	0.42
2:AA:2101:G:O2'	2:AA:2102:U:C5'	2.62	0.42
2:AA:2119:A:C6	2:AA:2147:G:P	3.12	0.42
2:AA:2147:G:O4'	2:AA:2147:G:P	2.78	0.42
2:AA:215:G:O2'	2:AA:216:A:OP2	2.35	0.42
2:AA:2181:G:N1	2:AA:2182:G:C8	2.87	0.42
2:AA:2196:C:O2	2:AA:2196:C:C2'	2.66	0.42
2:AA:2260:C:H2'	2:AA:2261:C:C6	2.55	0.42
2:AA:2289:G:H5''	2:AA:2384:G:H1'	2.02	0.42
2:AA:2296:U:H3	16:AQ:16:ALA:HB2	1.85	0.42
2:AA:2360:A:H5''	32:A8:49:VAL:HG22	2.01	0.42
2:AA:2508:G:HO2'	2:AA:2554:U:HO2'	1.67	0.42
2:AA:2505:G:C2'	2:AA:2576:G:N2	2.65	0.42
2:AA:2580:U:H2'	2:AA:2581:G:O4'	2.20	0.42
2:AA:2585:U:C6	2:AA:2585:U:OP1	2.63	0.42
2:AA:2596:U:C3'	2:AA:2597:G:O4'	2.68	0.42
2:AA:2593:U:C2	2:AA:2600:A:N1	2.88	0.42
2:AA:2615:U:HO2'	2:AA:2616:C:C5'	2.32	0.42
2:AA:2637:U:C2'	2:AA:2638:G:O4'	2.61	0.42
2:AA:270(C):C:C6	2:AA:270(D):C:C5	3.07	0.42
2:AA:2747:G:O6	2:AA:2755:C:C5'	2.64	0.42
2:AA:2748:A:N7	2:AA:2749:A:C4	2.88	0.42
2:AA:2785:C:O2'	5:AE:100:TRP:N	2.53	0.42
2:AA:2836:U:C5	2:AA:2883:A:N6	2.88	0.42
2:AA:2808:U:N1	2:AA:2892:A:N6	2.68	0.42
2:AA:432:A:C2	2:AA:433:C:C1'	3.02	0.42
2:AA:447:A:C8	2:AA:454:A:N6	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:458:G:H2'	2:AA:469:G:N1	2.29	0.42
2:AA:571:A:C2	2:AA:573:G:N7	2.88	0.42
2:AA:603:A:C6	2:AA:604:G:C6	3.07	0.42
2:AA:794:G:C2'	2:AA:795:C:O5'	2.67	0.42
2:AA:928:G:C2	2:AA:929:G:N1	2.88	0.42
2:AA:846:C:N4	2:AA:932:G:H1	2.18	0.42
2:AA:969:U:C5	2:AA:970:C:H5	2.37	0.42
3:AC:104:LEU:HD13	3:AC:126:LYS:HZ1	1.85	0.42
4:AD:213:LYS:HB3	4:AD:215:LYS:CG	2.46	0.42
2:AA:1805:U:C5'	4:AD:235:PRO:HB3	2.50	0.42
4:AD:70:LYS:HZ2	4:AD:70:LYS:HB3	1.84	0.42
5:AE:211:GLN:NE2	5:AE:215:LYS:CB	2.81	0.42
5:AE:76:PRO:CA	5:AE:292:PRO:HB2	2.49	0.42
6:AF:107:ARG:O	6:AF:110:ALA:N	2.52	0.42
6:AF:151:GLN:OE1	6:AF:154:VAL:CG2	2.65	0.42
7:AG:134:LEU:CD1	7:AG:136:ARG:HE	2.12	0.42
7:AG:95:THR:O	7:AG:97:GLN:N	2.51	0.42
8:AH:34:ARG:HB3	8:AH:74:MET:HE2	2.01	0.42
9:AJ:18:LEU:HD13	9:AJ:45:ALA:CA	2.50	0.42
10:AK:20:ASN:C	10:AK:22:ALA:H	2.22	0.42
10:AK:29:PHE:CD2	10:AK:30:LEU:HD21	2.51	0.42
12:AM:13:ASP:HA	12:AM:38:VAL:HG13	2.00	0.42
12:AM:5:GLU:C	12:AM:6:PHE:CG	2.92	0.42
13:AN:107:ARG:HG2	13:AN:115:ILE:HG21	2.01	0.42
13:AN:23:LYS:HE3	13:AN:24:VAL:O	2.20	0.42
14:AO:116:HIS:HB3	14:AO:118:LEU:CD1	2.49	0.42
15:AP:47:GLU:C	15:AP:150:ASP:OD1	2.58	0.42
15:AP:42:TYR:O	21:AV:119:ASN:ND2	2.50	0.42
16:AQ:22:GLN:HA	16:AQ:25:ARG:HB2	2.02	0.42
16:AQ:31:LYS:HB2	16:AQ:31:LYS:HE3	1.86	0.42
16:AQ:81:ALA:O	16:AQ:82:TYR:C	2.57	0.42
18:AS:69:LEU:CD1	18:AS:107:LEU:HD13	2.44	0.42
19:AT:23:LYS:C	19:AT:24:LEU:HD12	2.40	0.42
19:AT:39:ASP:O	19:AT:43:GLU:OE2	2.37	0.42
20:AU:1:SER:N	20:AU:6:LYS:HD3	2.35	0.42
2:AA:338:G:C8	20:AU:21:LYS:HD2	2.51	0.42
21:AV:166:LEU:CD1	21:AV:167:THR:OG1	2.68	0.42
21:AV:43:PHE:CD2	21:AV:43:PHE:N	2.86	0.42
21:AV:79:ILE:O	21:AV:80:HIS:CB	2.68	0.42
22:AW:12:THR:O	22:AW:16:ARG:CD	2.67	0.42
23:AX:11:SER:OG	23:AX:13:ILE:CG1	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:B1:46:A:C8	36:B1:47:U:C4	3.08	0.42
35:BC:36:A:C6	36:B1:60:A:N1	2.87	0.42
34:BA:1001:A:C2	34:BA:1040:U:N3	2.73	0.42
34:BA:1073:U:C2'	34:BA:1074:G:C8	2.86	0.42
34:BA:1102:A:N3	34:BA:1103:C:C6	2.88	0.42
34:BA:1115:C:C4	34:BA:1116:C:C5	3.07	0.42
34:BA:116:A:C2'	34:BA:117:G:H5'	2.49	0.42
34:BA:118:U:H2'	34:BA:288:A:C6	2.51	0.42
34:BA:1249:C:O2	44:BL:70:LYS:NZ	2.42	0.42
34:BA:948:C:H5'	34:BA:1306:A:O2'	2.19	0.42
34:BA:1352:C:C4	34:BA:1371:G:O6	2.72	0.42
34:BA:1391:U:O2'	34:BA:1392:G:O5'	2.38	0.42
34:BA:145:G:H8	34:BA:145:G:H5''	1.85	0.42
34:BA:1497:G:C4	34:BA:1498:U:C5	3.07	0.42
34:BA:815:A:H1'	34:BA:1529:G:O6	2.17	0.42
34:BA:1531:A:C4	34:BA:1532:U:N3	2.87	0.42
34:BA:181:G:O2'	34:BA:182:U:P	2.77	0.42
34:BA:226:G:N2	34:BA:227:G:N3	2.66	0.42
34:BA:276:G:N1	34:BA:277:C:C6	2.87	0.42
34:BA:134:A:N9	34:BA:325:A:C2	2.88	0.42
34:BA:341:C:O2'	34:BA:342:C:H5'	2.20	0.42
34:BA:40:C:C4	34:BA:403:C:N3	2.88	0.42
34:BA:411:A:C8	34:BA:413:G:H1'	2.54	0.42
34:BA:440:A:O2'	34:BA:442:C:H5'	2.20	0.42
34:BA:459:G:C3'	34:BA:460:A:H5''	2.50	0.42
34:BA:463:A:C5	34:BA:474:G:N7	2.88	0.42
34:BA:519:C:C2'	34:BA:520:A:C5'	2.84	0.42
34:BA:550:G:C2	34:BA:551:U:C6	3.07	0.42
34:BA:25:C:N4	34:BA:558:G:C2	2.87	0.42
34:BA:598:U:H4'	43:BK:94:TYR:CG	2.54	0.42
34:BA:689:C:C2'	34:BA:690:G:O5'	2.68	0.42
34:BA:696:A:C2'	34:BA:697:U:O5'	2.68	0.42
34:BA:701:C:C2	34:BA:703:G:N1	2.87	0.42
34:BA:710:G:HO2'	34:BA:711:G:H5'	1.79	0.42
34:BA:724:G:H21	34:BA:725:G:H1'	1.84	0.42
34:BA:727:G:C5'	34:BA:741:G:N2	2.82	0.42
34:BA:877:C:OP1	43:BK:88:LYS:CD	2.68	0.42
34:BA:883:C:O2	34:BA:883:C:H2'	2.18	0.42
34:BA:909:A:H2'	34:BA:910:C:O4'	2.20	0.42
34:BA:572:A:H2	34:BA:916:G:H22	1.68	0.42
34:BA:938:A:H2'	34:BA:939:G:O5'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:979:C:C6	34:BA:980:C:C5	3.07	0.42
34:BA:985:C:N4	34:BA:1220:G:N1	2.28	0.42
35:BC:31:A:H5'	44:BL:127:LYS:O	2.19	0.42
37:BE:169:LYS:NZ	37:BE:170:GLU:OE1	2.45	0.42
37:BE:42:ILE:HD11	37:BE:202:PRO:O	2.20	0.42
37:BE:84:GLU:O	37:BE:88:ALA:N	2.46	0.42
37:BE:9:GLU:HB2	37:BE:217:ARG:CZ	2.48	0.42
38:BF:3:ASN:HB2	38:BF:4:LYS:H	1.54	0.42
38:BF:73:PRO:CG	38:BF:74:GLY:N	2.82	0.42
38:BF:85:ARG:C	38:BF:87:LEU:N	2.72	0.42
39:BG:104:VAL:O	39:BG:107:ARG:N	2.52	0.42
39:BG:153:ARG:CB	39:BG:181:MET:HE3	2.40	0.42
39:BG:180:GLY:HA3	39:BG:182:LYS:HE2	2.01	0.42
39:BG:43:HIS:O	39:BG:46:LYS:HB2	2.20	0.42
39:BG:98:GLU:O	39:BG:99:SER:C	2.58	0.42
40:BH:15:ARG:NH1	40:BH:15:ARG:CG	2.78	0.42
40:BH:79:GLU:CG	40:BH:92:LYS:HA	2.50	0.42
41:BI:24:GLU:HG3	41:BI:25:ILE:H	1.84	0.42
41:BI:67:MET:HA	41:BI:68:PRO:HD3	1.91	0.42
41:BI:86:ARG:HG2	41:BI:86:ARG:H	1.70	0.42
42:BJ:111:ARG:HD2	42:BJ:123:GLU:CD	2.40	0.42
42:BJ:144:MET:O	42:BJ:145:ALA:C	2.55	0.42
42:BJ:24:THR:O	42:BJ:28:ASN:HB2	2.20	0.42
42:BJ:72:ARG:CG	42:BJ:72:ARG:HH11	2.23	0.42
42:BJ:95:ARG:C	42:BJ:97:GLN:N	2.71	0.42
43:BK:104:ARG:CG	43:BK:138:TRP:CE3	3.00	0.42
43:BK:17:THR:CG2	43:BK:78:GLN:OE1	2.68	0.42
44:BL:47:LEU:CD1	44:BL:50:LEU:HB3	2.49	0.42
44:BL:55:ALA:CB	44:BL:58:ARG:HE	2.17	0.42
44:BL:49:PRO:CD	44:BL:78:LYS:HD3	2.49	0.42
45:BM:4:ILE:HA	45:BM:100:THR:HA	2.02	0.42
45:BM:60:ARG:H	45:BM:60:ARG:HD3	1.85	0.42
45:BM:5:ARG:HG3	45:BM:6:ILE:N	2.34	0.42
34:BA:718:G:C5	46:BN:116:HIS:NE2	2.88	0.42
46:BN:62:GLN:CD	46:BN:63:LEU:CA	2.88	0.42
47:BO:93:LEU:N	47:BO:93:LEU:CD2	2.69	0.42
50:BR:70:LEU:HD11	50:BR:74:ASP:O	2.20	0.42
52:BT:29:HIS:CB	52:BT:32:TYR:H	2.32	0.42
52:BT:60:ILE:HG22	52:BT:72:ARG:O	2.19	0.42
52:BT:96:GLN:NE2	52:BT:97:SER:N	2.66	0.42
53:BU:81:PHE:O	53:BU:82:THR:CB	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BV:17:GLU:O	54:BV:21:GLU:HG3	2.20	0.42
55:BW:54:LYS:HG2	55:BW:100:ILE:HD12	1.99	0.42
55:BW:59:ALA:O	55:BW:61:SER:N	2.53	0.42
10:AK:115:ILE:CG2	10:AK:116:GLU:N	2.57	0.42
10:AK:88:ARG:CB	10:AK:122:ARG:O	2.68	0.42
10:AK:130:PRO:CA	10:AK:140:THR:HG23	2.50	0.42
10:AK:130:PRO:HB3	10:AK:140:THR:HG23	2.02	0.42
10:AK:78:THR:CA	10:AK:144:HIS:NE2	2.79	0.42
2:AA:1483:G:N1	2:AA:1507:A:H1'	2.34	0.42
10:AK:70:GLU:OE1	10:AK:74:LYS:HD2	2.19	0.42
2:AA:1090:U:H6	2:AA:1090:U:OP2	2.01	0.42
7:AG:86:THR:HG1	7:AG:86:THR:H	1.63	0.42
24:A0:54:LEU:H	24:A0:54:LEU:CD1	2.27	0.42
24:A0:59:ASP:O	24:A0:60:LEU:C	2.58	0.42
2:AA:1453:A:C6	24:A0:77:ARG:CD	3.03	0.42
24:A0:84:ALA:N	24:A0:85:PRO:CD	2.83	0.42
25:A1:59:ARG:HH11	25:A1:59:ARG:CG	2.32	0.42
25:A1:61:TRP:CH2	25:A1:93:LYS:HB3	2.54	0.42
25:A1:69:ALA:HB1	25:A1:79:PHE:CD1	2.53	0.42
27:A3:36:ILE:C	27:A3:37:LEU:HG	2.39	0.42
27:A3:33:ALA:HB3	27:A3:66:LYS:N	2.35	0.42
2:AA:387:U:O3'	28:A4:23:GLU:OE1	2.37	0.42
2:AA:1364:G:C5	28:A4:2:GLN:OE1	2.73	0.42
32:A8:55:TRP:O	32:A8:56:ALA:C	2.58	0.42
2:AA:1019:U:H1'	2:AA:1144:G:N2	2.35	0.42
2:AA:1246:A:N6	2:AA:1247:A:N1	2.61	0.42
2:AA:449:A:H4'	2:AA:1248:G:H1	1.84	0.42
2:AA:123:G:N2	2:AA:128:C:N3	2.56	0.42
2:AA:1312:U:O2'	2:AA:1313:U:O5'	2.31	0.42
2:AA:1353:A:C2	2:AA:1354:A:C4	3.07	0.42
2:AA:1398:C:O2'	2:AA:1399:C:H5'	2.20	0.42
2:AA:1523:U:C2'	2:AA:1524:G:C5'	2.97	0.42
2:AA:1569:A:H2'	2:AA:1570:A:C8	2.55	0.42
2:AA:1635:G:H2'	2:AA:1636:C:O4'	2.20	0.42
2:AA:1814:G:C2'	2:AA:1815:A:C8	3.02	0.42
2:AA:1899:G:N2	2:AA:1902:C:N4	2.59	0.42
2:AA:189:G:O6	2:AA:205:G:N9	2.53	0.42
2:AA:1925:C:C2	2:AA:1929:G:O6	2.70	0.42
2:AA:1948:G:N1	2:AA:1949:G:C6	2.87	0.42
2:AA:1935:G:N1	2:AA:1962:C:C6	2.88	0.42
2:AA:1997:G:C2	2:AA:1998:G:C5	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2004:G:N7	2:AA:2005:A:N7	2.67	0.42
2:AA:200:U:C2'	2:AA:201:C:H5'	2.50	0.42
2:AA:2019:A:O2'	2:AA:2020:A:C5'	2.68	0.42
2:AA:2029:G:N1	2:AA:2033:A:N7	2.66	0.42
2:AA:2072:G:O5'	2:AA:2072:G:H8	2.01	0.42
2:AA:2134:A:OP1	2:AA:2135:A:OP2	2.37	0.42
2:AA:2146:C:C6	2:AA:2147:G:N2	2.88	0.42
2:AA:2274:A:N6	2:AA:2276:G:N9	2.68	0.42
2:AA:2279:G:H2'	2:AA:2280:G:H8	1.85	0.42
2:AA:2301:C:N4	2:AA:2302:G:O6	2.53	0.42
2:AA:2335:A:C8	2:AA:2337:G:C6	3.08	0.42
2:AA:2344:U:C2'	2:AA:2345:G:OP2	2.67	0.42
2:AA:2370:G:N3	2:AA:2371:G:C8	2.87	0.42
2:AA:1669:A:C4'	2:AA:2550:G:OP1	2.66	0.42
2:AA:270(X):G:C2'	2:AA:270(Y):G:C5'	2.69	0.42
2:AA:2783:G:C2'	2:AA:2784:C:O4'	2.63	0.42
2:AA:2819:G:H8	2:AA:2819:G:O5'	2.02	0.42
2:AA:2848:G:N2	2:AA:2849:U:O2	2.52	0.42
2:AA:29:U:H4'	25:A1:11:ARG:CZ	2.47	0.42
2:AA:359:A:O2'	2:AA:360:G:N9	2.52	0.42
2:AA:372:G:H3'	2:AA:372:G:H8	1.83	0.42
2:AA:418:G:C2	2:AA:419:C:C6	3.08	0.42
2:AA:444:C:HO2'	2:AA:445:C:H5'	1.76	0.42
2:AA:464:U:O2	2:AA:465:G:C1'	2.67	0.42
2:AA:503:A:H5''	2:AA:504:U:OP1	2.18	0.42
2:AA:549:G:C2'	2:AA:550:G:O5'	2.68	0.42
2:AA:585:G:O2'	2:AA:586:A:N7	2.48	0.42
2:AA:607:U:H2'	2:AA:608:A:C8	2.55	0.42
2:AA:611:C:C6	2:AA:618:G:N1	2.83	0.42
2:AA:641:C:O2'	2:AA:642:G:C5'	2.66	0.42
2:AA:651:G:H8	2:AA:652:C:C6	2.38	0.42
2:AA:658:C:N3	2:AA:659:C:C4	2.88	0.42
2:AA:660:G:C2	2:AA:661:C:C5	3.08	0.42
2:AA:706:A:H2'	2:AA:707:G:H5'	2.02	0.42
2:AA:772:C:H2'	2:AA:773:U:C5	2.55	0.42
2:AA:783:A:O5'	2:AA:783:A:C8	2.72	0.42
2:AA:783:A:O2'	2:AA:784:A:C5'	2.68	0.42
2:AA:851:U:O2	2:AA:929:G:N2	2.53	0.42
2:AA:99:U:O2	2:AA:99:U:C2'	2.66	0.42
1:AB:43:C:C5	1:AB:43:C:OP2	2.73	0.42
1:AB:73:A:C6	1:AB:104:A:C4	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:88:C:H6	1:AB:88:C:C3'	2.27	0.42
3:AC:211:SER:HB2	3:AC:213:TYR:CE1	2.55	0.42
3:AC:19:ILE:HG23	3:AC:224:ILE:CA	2.50	0.42
5:AE:190:ASN:O	5:AE:192:ILE:C	2.57	0.42
5:AE:40:GLY:O	5:AE:41:PHE:CD2	2.72	0.42
6:AF:144:PHE:C	6:AF:146:ASP:H	2.22	0.42
6:AF:219:ASN:O	6:AF:222:ASP:CB	2.58	0.42
2:AA:600:G:C5'	6:AF:27:ARG:HH11	2.23	0.42
7:AG:56:ARG:HE	7:AG:65:GLU:CB	2.28	0.42
9:AJ:61:VAL:HG12	9:AJ:102:ILE:HG22	2.01	0.42
9:AJ:66:PHE:CE2	9:AJ:73:VAL:CG1	3.02	0.42
9:AJ:71:ILE:CA	11:AL:61:TYR:HB2	2.49	0.42
2:AA:2042:A:N6	12:AM:90:LYS:HZ1	2.18	0.42
12:AM:94:GLY:C	12:AM:98:PHE:CE1	2.93	0.42
14:AO:61:ALA:CB	14:AO:107:LYS:HE3	2.50	0.42
14:AO:73:VAL:C	14:AO:75:LEU:N	2.70	0.42
15:AP:140:TYR:CE1	15:AP:149:ILE:HA	2.54	0.42
15:AP:25:GLY:O	15:AP:26:LYS:C	2.58	0.42
16:AQ:104:ILE:CG2	16:AQ:106:LEU:O	2.63	0.42
16:AQ:22:GLN:OE1	16:AQ:22:GLN:N	2.52	0.42
16:AQ:41:LYS:HB3	16:AQ:42:HIS:NE2	2.34	0.42
16:AQ:41:LYS:NZ	16:AQ:68:GLU:CD	2.73	0.42
20:AU:30:ASP:HB2	20:AU:34:GLU:OE2	2.19	0.42
20:AU:55:PHE:CE1	20:AU:89:ARG:HD3	2.55	0.42
20:AU:9:LYS:HZ1	20:AU:13:ARG:NH2	2.18	0.42
21:AV:105:GLN:CB	21:AV:141:MET:HG2	2.34	0.42
23:AX:16:PRO:CB	23:AX:19:GLN:OE1	2.68	0.42
34:BA:1099:G:C6	34:BA:1100:C:C2	3.07	0.42
34:BA:110:C:C2'	34:BA:111:G:H8	2.33	0.42
34:BA:1125:U:H5''	34:BA:1126:U:C5	2.39	0.42
34:BA:1150:U:O2	34:BA:1151:A:C8	2.73	0.42
34:BA:1157:A:C1'	34:BA:1181:G:C2	3.03	0.42
34:BA:131:C:H2'	34:BA:132:C:O5'	2.20	0.42
34:BA:1331:G:O2'	34:BA:1332:A:O5'	2.38	0.42
34:BA:1428:A:C4	34:BA:1429:C:C5	3.07	0.42
34:BA:1436:U:C2	34:BA:1437:C:C6	3.07	0.42
34:BA:1463:C:H2'	34:BA:1464:G:H5'	2.02	0.42
34:BA:186:C:C2	34:BA:187:C:C5	3.08	0.42
34:BA:23:C:H2'	34:BA:23:C:O2	2.19	0.42
34:BA:22:G:O2'	34:BA:23:C:O4'	2.38	0.42
34:BA:272:C:C2	34:BA:273:A:C8	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:28:G:N2	34:BA:556:C:C4	2.88	0.42
34:BA:303:A:N7	34:BA:304:U:C5	2.87	0.42
34:BA:316:G:N7	34:BA:351:G:C2	2.88	0.42
34:BA:371:G:N1	34:BA:390:C:N4	2.22	0.42
34:BA:428:G:O2'	34:BA:429:U:P	2.78	0.42
34:BA:499:A:C4'	34:BA:500:G:OP1	2.63	0.42
34:BA:509:A:C8	34:BA:509:A:H3'	2.55	0.42
34:BA:548:G:H2'	34:BA:549:C:H6	1.84	0.42
34:BA:571:U:C3'	34:BA:572:A:C5'	2.79	0.42
34:BA:599:C:O2'	43:BK:130:GLY:N	2.53	0.42
34:BA:595:G:C8	34:BA:641:U:C4	3.07	0.42
34:BA:688:G:C2'	34:BA:689:C:C5'	2.96	0.42
34:BA:790:A:H2'	34:BA:791:G:O4'	2.20	0.42
34:BA:881:G:C5	34:BA:882:C:C4	3.08	0.42
34:BA:881:G:O2'	34:BA:882:C:C5'	2.66	0.42
35:BC:37:G:O6	35:BC:38:A:N6	2.53	0.42
35:BC:53:G:C5	35:BC:62:A:N6	2.88	0.42
37:BE:114:ARG:HD3	37:BE:114:ARG:O	2.20	0.42
37:BE:169:LYS:HD3	37:BE:169:LYS:C	2.39	0.42
37:BE:236:TYR:HA	37:BE:240:GLN:NE2	2.35	0.42
37:BE:239:VAL:C	37:BE:240:GLN:HG3	2.40	0.42
37:BE:52:GLU:O	37:BE:53:ARG:C	2.57	0.42
37:BE:68:ILE:O	37:BE:90:MET:CG	2.68	0.42
38:BF:73:PRO:CD	38:BF:105:GLU:OE2	2.68	0.42
38:BF:120:VAL:HG11	38:BF:134:ILE:HG13	2.00	0.42
34:BA:1057:G:C1'	38:BF:195:VAL:HG12	2.49	0.42
38:BF:50:ALA:HB1	38:BF:72:LYS:O	2.19	0.42
39:BG:121:VAL:O	39:BG:134:ASP:CA	2.65	0.42
39:BG:4:TYR:HE2	39:BG:8:VAL:CG2	2.14	0.42
40:BH:107:ARG:O	40:BH:109:ILE:N	2.53	0.42
40:BH:43:LEU:H	40:BH:65:ASN:ND2	2.17	0.42
40:BH:92:LYS:CG	40:BH:93:PRO:HD2	2.49	0.42
42:BJ:20:ASP:OD1	42:BJ:63:LYS:NZ	2.50	0.42
34:BA:1240:U:C2'	42:BJ:32:ARG:HH21	2.33	0.42
42:BJ:50:ILE:CD1	42:BJ:58:PRO:CA	2.98	0.42
42:BJ:74:GLU:CG	42:BJ:75:VAL:H	2.25	0.42
43:BK:103:VAL:HG21	43:BK:109:ILE:C	2.40	0.42
34:BA:643:C:O2'	43:BK:132:GLU:OE2	2.37	0.42
43:BK:45:ILE:CG1	43:BK:47:GLY:N	2.81	0.42
43:BK:54:ASP:O	43:BK:56:LYS:HD2	2.19	0.42
34:BA:598:U:C1'	43:BK:94:TYR:HD2	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BL:48:GLU:O	44:BL:51:ARG:CB	2.63	0.42
47:BO:83:VAL:CG2	47:BO:107:ALA:HB3	2.50	0.42
34:BA:551:U:C4'	47:BO:119:LYS:HE2	2.50	0.42
47:BO:58:VAL:HG12	47:BO:60:LEU:HD12	2.01	0.42
48:BP:32:GLU:HB3	48:BP:64:TRP:CZ3	2.47	0.42
49:BQ:23:ARG:HA	49:BQ:33:VAL:HG21	2.02	0.42
34:BA:582:U:O4'	52:BT:105:ALA:O	2.38	0.42
52:BT:24:GLU:CG	52:BT:38:ARG:O	2.65	0.42
53:BU:36:ASN:O	53:BU:37:VAL:C	2.58	0.42
55:BW:51:GLU:HG2	55:BW:52:ALA:H	1.84	0.42
34:BA:186:C:C2'	55:BW:85:MET:SD	3.07	0.42
10:AK:88:ARG:NH2	10:AK:121:ILE:CG2	2.82	0.42
37:BE:124:SER:C	37:BE:126:GLU:N	2.73	0.42
10:AK:54:GLU:OE1	10:AK:54:GLU:CA	2.63	0.42
11:AL:63:ASP:O	11:AL:64:LYS:CB	2.67	0.42
24:A0:22:ARG:O	24:A0:23:ASN:C	2.58	0.42
24:A0:79:LEU:CD2	24:A0:80:PHE:CD1	3.03	0.42
25:A1:114:ARG:HB2	25:A1:115:ASN:ND2	2.34	0.42
26:A2:7:THR:OG1	26:A2:7:THR:O	2.37	0.42
26:A2:20:ILE:HG23	26:A2:94:LYS:CG	2.48	0.42
26:A2:62:GLU:O	26:A2:95:ILE:CG2	2.68	0.42
26:A2:15:SER:CB	26:A2:99:GLN:OE1	2.67	0.42
2:AA:387:U:P	28:A4:31:ILE:HD11	2.60	0.42
28:A4:7:PRO:HB2	28:A4:60:ASN:HB3	2.00	0.42
2:AA:372:G:O2'	28:A4:63:PHE:CZ	2.60	0.42
30:A6:19:GLY:C	30:A6:42:PRO:HB3	2.40	0.42
2:AA:2399:G:H1'	30:A6:22:TYR:OH	2.19	0.42
31:A7:33:ARG:CA	31:A7:37:LYS:HD2	2.49	0.42
32:A8:9:MET:O	32:A8:10:ALA:C	2.57	0.42
33:A9:7:VAL:O	33:A9:8:LYS:CE	2.68	0.42
2:AA:1193:G:N1	2:AA:1194:A:C4	2.88	0.42
2:AA:1254:A:N7	2:AA:1256:G:H1'	2.34	0.42
2:AA:1266:G:O6	18:AS:16:LYS:NZ	2.49	0.42
2:AA:1269:A:C2'	2:AA:1325:G:O6	2.68	0.42
2:AA:137(A):G:C5'	2:AA:137(A):G:C2	2.91	0.42
2:AA:1421:G:N3	2:AA:1422:G:C8	2.88	0.42
2:AA:1456:G:O5'	2:AA:1456:G:C8	2.73	0.42
2:AA:1465:G:C2	2:AA:1466:G:N9	2.87	0.42
2:AA:1491:G:C2'	2:AA:1492:G:OP2	2.68	0.42
2:AA:1535:U:H5'	2:AA:1536:A:O4'	2.17	0.42
2:AA:1466:G:C4	2:AA:1547:C:N4	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1569:A:C4	2:AA:1570:A:N7	2.88	0.42
2:AA:1572:A:O2'	2:AA:1573:G:P	2.78	0.42
2:AA:1689:A:N7	2:AA:1698:A:H2	2.17	0.42
2:AA:15:G:C2'	2:AA:16:G:C5'	2.91	0.42
2:AA:153:C:H1'	2:AA:175:G:C2	2.55	0.42
2:AA:1764:G:C2	2:AA:1765:C:C2	3.07	0.42
2:AA:1789:A:N3	2:AA:1790:C:H1'	2.35	0.42
2:AA:190:A:C6	2:AA:191:A:N6	2.87	0.42
2:AA:574:C:C2	2:AA:2055:C:C5	3.08	0.42
2:AA:2083:G:N2	2:AA:2084:C:C2	2.88	0.42
2:AA:2131:G:H3'	3:AC:6:ARG:CB	2.30	0.42
2:AA:2135:A:H2'	2:AA:2152:G:C8	2.51	0.42
2:AA:2329:G:C4	2:AA:2330:G:C8	3.07	0.42
2:AA:2329:G:H1	2:AA:2386:C:N4	2.15	0.42
2:AA:2448:A:H3'	2:AA:2449:U:H6	1.84	0.42
2:AA:2450:A:C2	2:AA:2451:A:N9	2.87	0.42
2:AA:2458:G:C8	2:AA:2490:G:N1	2.87	0.42
2:AA:244:A:N6	2:AA:245:G:N2	2.67	0.42
2:AA:2460:U:C4	2:AA:2461:C:C5	3.08	0.42
2:AA:2462:U:C2	2:AA:2463:C:C6	3.08	0.42
2:AA:2524:G:C2'	2:AA:2741:A:H2	2.32	0.42
2:AA:2638:G:H21	2:AA:2778:A:N6	2.11	0.42
2:AA:2695:C:O2	2:AA:2696:U:C4	2.72	0.42
2:AA:270(E):G:C2	2:AA:270(F):U:C6	3.07	0.42
2:AA:2765:A:N3	2:AA:2765:A:C2'	2.83	0.42
2:AA:2795:G:O5'	2:AA:2799:A:C2	2.72	0.42
2:AA:2831:G:C5'	2:AA:2834:G:O2'	2.68	0.42
2:AA:2836:U:C6	2:AA:2883:A:N6	2.88	0.42
2:AA:341:G:C2'	2:AA:342:G:O4'	2.49	0.42
2:AA:346:A:O2'	2:AA:347:A:C8	2.72	0.42
2:AA:290:G:N2	2:AA:350:U:C1'	2.82	0.42
2:AA:440:G:OP1	20:AU:6:LYS:HD2	2.18	0.42
2:AA:489:G:N2	2:AA:491:G:C1'	2.77	0.42
2:AA:492:A:H2'	2:AA:493:G:C4'	2.49	0.42
2:AA:605:C:O2'	2:AA:658:C:H4'	2.20	0.42
2:AA:613:U:H5'	2:AA:614:U:C6	2.55	0.42
2:AA:636:G:H4'	2:AA:638:G:O2'	2.19	0.42
2:AA:691:C:N3	2:AA:692:C:C5	2.88	0.42
2:AA:828:U:C2'	2:AA:829:A:O4'	2.67	0.42
2:AA:842:G:N1	2:AA:937:U:N3	2.68	0.42
2:AA:852:G:C6	2:AA:853:G:C6	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:868:U:H3	2:AA:909:A:N6	2.14	0.42
2:AA:934:G:N3	2:AA:934:G:H2'	2.35	0.42
2:AA:955:C:H2'	2:AA:956:G:C5'	2.49	0.42
2:AA:960:A:C2	2:AA:962:G:C1'	3.02	0.42
2:AA:952:G:O6	2:AA:966:G:C6	2.72	0.42
1:AB:77:U:H5'	21:AV:80:HIS:ND1	2.34	0.42
1:AB:9:G:N1	1:AB:112:G:N7	2.68	0.42
3:AC:93:TYR:CE2	3:AC:110:PHE:HA	2.54	0.42
3:AC:146:GLY:O	3:AC:149:ILE:N	2.53	0.42
3:AC:89:ALA:CB	3:AC:150:GLY:HA2	2.50	0.42
3:AC:89:ALA:HB1	3:AC:154:ARG:NH1	2.35	0.42
3:AC:82:LYS:HD3	3:AC:82:LYS:HA	1.74	0.42
4:AD:110:LYS:H	4:AD:110:LYS:HG2	1.60	0.42
4:AD:140:VAL:HA	4:AD:191:VAL:CA	2.44	0.42
4:AD:156:ALA:O	4:AD:157:ALA:C	2.58	0.42
4:AD:167:GLU:C	4:AD:170:TYR:CE1	2.93	0.42
5:AE:172:ASP:O	5:AE:173:ARG:C	2.58	0.42
5:AE:206:LYS:O	5:AE:208:LYS:N	2.53	0.42
6:AF:115:LEU:O	6:AF:116:ALA:C	2.57	0.42
6:AF:151:GLN:OE1	6:AF:151:GLN:HA	2.18	0.42
6:AF:194:PHE:CD1	6:AF:211:ASP:O	2.73	0.42
6:AF:51:TYR:O	6:AF:52:ALA:C	2.57	0.42
6:AF:80:VAL:HA	6:AF:81:PRO:HD3	1.88	0.42
6:AF:84:VAL:HG21	6:AF:85:LYS:HZ1	1.85	0.42
7:AG:73:VAL:HG12	7:AG:75:LEU:HG	2.02	0.42
2:AA:1058:G:C4'	9:AI:2:THR:CA	2.83	0.42
9:AI:49:ALA:O	9:AI:52:ALA:HB3	2.19	0.42
9:AI:80:ILE:CG2	9:AI:81:THR:N	2.82	0.42
12:AM:16:ASP:O	12:AM:17:CYS:O	2.38	0.42
13:AN:120:GLU:CD	13:AN:122:ILE:HD11	2.40	0.42
13:AN:52:VAL:O	13:AN:53:LYS:CB	2.64	0.42
15:AP:156:ASN:C	15:AP:156:ASN:OD1	2.58	0.42
15:AP:17:ARG:CD	15:AP:17:ARG:H	2.32	0.42
15:AP:42:TYR:CB	21:AV:99:HIS:CE1	3.02	0.42
15:AP:67:ALA:CA	15:AP:70:ARG:NE	2.83	0.42
16:AQ:17:ARG:HH22	16:AQ:106:LEU:HD21	1.85	0.42
16:AQ:11:ARG:O	16:AQ:14:ARG:HD2	2.20	0.42
16:AQ:33:ARG:CB	16:AQ:35:VAL:CG2	2.95	0.42
17:AR:8:TYR:O	17:AR:9:CYS:C	2.58	0.42
18:AS:23:LEU:HD21	29:A5:27:ALA:H	1.85	0.42
18:AS:25:ARG:HG3	18:AS:26:GLY:H	1.81	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:36:LEU:HA	18:AS:36:LEU:HD23	1.86	0.42
19:AT:3:ASP:C	22:AW:24:LYS:HD2	2.40	0.42
20:AU:66:ASP:C	20:AU:71:VAL:O	2.58	0.42
22:AW:60:GLN:O	22:AW:61:GLY:O	2.38	0.42
23:AX:26:LEU:HD21	23:AX:46:ASN:HD22	1.80	0.42
36:B1:69:A:O2'	36:B1:70:U:C5	2.72	0.42
34:BA:1060:C:O2'	34:BA:1061:G:H5'	2.19	0.42
34:BA:1196:U:H6	34:BA:1196:U:C3'	2.32	0.42
34:BA:1203:C:C2'	34:BA:1204:A:O4'	2.65	0.42
34:BA:1399:C:N4	34:BA:1502:A:C5	2.87	0.42
34:BA:1427:U:C2	34:BA:1474:G:N2	2.88	0.42
34:BA:1450:U:C1'	34:BA:1454:G:N2	2.79	0.42
34:BA:1465:C:N3	34:BA:1466:C:C5	2.88	0.42
34:BA:149:A:C2	34:BA:150:C:N3	2.88	0.42
34:BA:292:G:C8	34:BA:293:G:C8	3.08	0.42
34:BA:295:C:H2'	34:BA:296:U:O5'	2.19	0.42
34:BA:371:G:C2	34:BA:372:C:C5	3.07	0.42
34:BA:408:A:N6	34:BA:435:C:H42	2.17	0.42
34:BA:43:C:N3	34:BA:44:G:N7	2.67	0.42
34:BA:45:U:O2	34:BA:398:C:N3	2.52	0.42
34:BA:499:A:N9	34:BA:547:A:C6	2.88	0.42
34:BA:302:G:N2	34:BA:556:C:H4'	2.33	0.42
34:BA:567:G:N2	34:BA:568:G:H1'	2.34	0.42
34:BA:647:C:C2	34:BA:648:A:C8	3.07	0.42
34:BA:687:A:C2	34:BA:704:A:C6	3.08	0.42
34:BA:692:U:O2	34:BA:694:A:C5	2.73	0.42
34:BA:715:A:H5'	34:BA:777:A:H62	1.83	0.42
34:BA:673:G:C6	34:BA:734:G:C5	3.08	0.42
34:BA:948:C:OP1	48:BP:109:THR:CG2	2.68	0.42
34:BA:990:C:C2'	34:BA:991:U:O4'	2.68	0.42
35:BB:2:C:H2'	35:BB:3:G:C5'	2.50	0.42
35:BC:40:C:O2	35:BC:41:U:H5''	2.19	0.42
35:BC:46:G:OP2	35:BC:46:G:C8	2.60	0.42
37:BE:155:LEU:HG	37:BE:159:PRO:HG3	2.01	0.42
37:BE:155:LEU:CG	37:BE:159:PRO:HG3	2.48	0.42
37:BE:97:TRP:CE3	37:BE:172:ILE:HB	2.47	0.42
37:BE:42:ILE:CD1	37:BE:202:PRO:O	2.67	0.42
37:BE:19:HIS:CD2	37:BE:20:GLU:CG	3.02	0.42
37:BE:63:MET:HG2	37:BE:64:ARG:N	2.35	0.42
37:BE:68:ILE:HB	37:BE:90:MET:HG3	2.01	0.42
37:BE:95:GLN:HA	37:BE:95:GLN:OE1	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BF:88:ARG:HH21	38:BF:100:ALA:CA	2.33	0.42
38:BF:76:VAL:CG1	38:BF:103:VAL:HG11	2.39	0.42
38:BF:12:LEU:CD2	38:BF:16:ARG:O	2.67	0.42
38:BF:172:ARG:NH1	38:BF:203:PHE:CE2	2.87	0.42
39:BG:20:TYR:C	39:BG:22:LYS:N	2.67	0.42
39:BG:64:LEU:CD1	39:BG:65:ARG:N	2.82	0.42
40:BH:122:GLU:C	40:BH:123:LEU:HD22	2.34	0.42
41:BI:15:ASP:N	41:BI:18:GLN:HE21	2.18	0.42
34:BA:1298:C:C1'	42:BJ:114:ARG:NH1	2.83	0.42
42:BJ:64:GLN:HG2	42:BJ:128:ALA:HB1	1.99	0.42
42:BJ:16:LEU:C	42:BJ:17:VAL:HG23	2.39	0.42
42:BJ:69:VAL:HG12	42:BJ:100:ALA:CB	2.49	0.42
42:BJ:89:MET:O	42:BJ:90:GLU:O	2.38	0.42
43:BK:104:ARG:CZ	43:BK:138:TRP:CH2	3.02	0.42
44:BL:47:LEU:O	44:BL:48:GLU:C	2.58	0.42
45:BM:24:VAL:CB	45:BM:34:VAL:HG11	2.49	0.42
45:BM:65:LEU:CD1	49:BQ:36:PHE:HZ	2.31	0.42
45:BM:30:SER:C	45:BM:81:THR:OG1	2.58	0.42
47:BO:54:LYS:HD2	47:BO:54:LYS:N	2.34	0.42
49:BQ:25:VAL:HG12	49:BQ:38:GLY:O	2.20	0.42
50:BR:10:LYS:NZ	50:BR:14:GLU:CD	2.73	0.42
51:BS:30:GLY:C	51:BS:31:LYS:O	2.53	0.42
51:BS:21:VAL:CG2	51:BS:36:ILE:HD13	2.33	0.42
52:BT:92:ARG:O	52:BT:93:GLN:C	2.58	0.42
55:BW:34:LYS:O	55:BW:36:LEU:N	2.52	0.42
56:BX:16:GLY:C	56:BX:18:TYR:N	2.67	0.42
2:AA:56:A:H3'	2:AA:57:C:H5	1.80	0.42
24:A0:38:VAL:O	24:A0:39:PRO:C	2.58	0.42
24:A0:49:ASP:O	24:A0:52:ILE:CB	2.67	0.42
25:A1:28:ARG:HB3	25:A1:38:THR:HG21	2.01	0.42
2:AA:993:G:N2	25:A1:54:LYS:NZ	2.68	0.42
26:A2:5:ILE:O	26:A2:6:GLN:HG2	2.19	0.42
27:A3:46:LYS:HG2	27:A3:58:THR:HG23	2.01	0.42
2:AA:1364:G:O5'	28:A4:3:LYS:HG2	2.20	0.42
28:A4:59:PHE:N	28:A4:59:PHE:CD1	2.76	0.42
28:A4:49:PHE:HZ	28:A4:70:GLY:O	2.01	0.42
29:A5:15:LYS:HA	29:A5:18:MET:HG3	1.92	0.42
29:A5:50:GLY:HA3	29:A5:57:VAL:HB	2.00	0.42
29:A5:6:VAL:O	29:A5:7:PRO:C	2.57	0.42
2:AA:1152:C:H5''	25:A1:80:ILE:HG21	1.99	0.42
2:AA:1155:A:H8	2:AA:1155:A:C5'	2.29	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1166:C:N4	2:AA:1184:G:O6	2.53	0.42
2:AA:1186:G:H2'	2:AA:1187:G:C8	2.51	0.42
2:AA:121:G:O2'	2:AA:122:G:C5'	2.68	0.42
2:AA:1247:A:C2'	2:AA:1248:G:O5'	2.68	0.42
2:AA:1275:A:HO2'	2:AA:1276:A:C5'	2.18	0.42
2:AA:1309:G:P	31:A7:9:ASN:ND2	2.70	0.42
2:AA:1344:G:C2	2:AA:1404:C:C2	3.08	0.42
2:AA:137(A):G:H21	2:AA:137(A):G:C5'	2.33	0.42
2:AA:1440:G:H2'	2:AA:1441:G:O4'	2.20	0.42
2:AA:1492:G:N3	2:AA:1493:C:C5	2.87	0.42
2:AA:1500:G:O2'	4:AD:98:GLY:CA	2.68	0.42
2:AA:1529:A:C5'	2:AA:1530:G:C8	3.02	0.42
2:AA:1543:A:H3'	2:AA:1544:C:C5	2.48	0.42
2:AA:1608:A:O2'	2:AA:1609:A:C5'	2.67	0.42
2:AA:1300:U:O2	2:AA:1626:G:C2	2.72	0.42
2:AA:1672:C:H5	2:AA:1673:U:C5	2.37	0.42
2:AA:1685:C:O2	2:AA:1704:G:C2	2.73	0.42
2:AA:171:G:C8	2:AA:171:G:H3'	2.55	0.42
2:AA:1882:C:O5'	2:AA:1883:G:OP2	2.36	0.42
2:AA:1907:G:N1	2:AA:1908:C:C4	2.88	0.42
2:AA:1913:A:H2'	2:AA:1916:A:N6	2.35	0.42
2:AA:1913:A:N6	2:AA:1916:A:C3'	2.82	0.42
2:AA:1961:C:H2'	2:AA:1962:C:C5'	2.50	0.42
2:AA:2106:G:N1	2:AA:2184:G:C6	2.87	0.42
2:AA:2199:A:N7	2:AA:2205:C:C5	2.88	0.42
2:AA:2239:G:C2'	2:AA:2240:C:O4'	2.61	0.42
2:AA:2287:A:C5	2:AA:2289:G:C5	3.08	0.42
2:AA:2315:G:C2'	2:AA:2316:C:O5'	2.68	0.42
2:AA:2330:G:N2	2:AA:2385:C:C4	2.84	0.42
2:AA:2406:U:O2	14:AO:56:LYS:HG2	2.20	0.42
2:AA:2436:G:O6	2:AA:2437:U:O4	2.37	0.42
2:AA:2059:A:C2	2:AA:2503:A:C5	3.08	0.42
2:AA:2509:G:H21	2:AA:2510:C:H1'	1.78	0.42
2:AA:2525:G:N2	2:AA:2539:C:C2	2.88	0.42
2:AA:2549:G:C4	2:AA:2550:G:C8	3.08	0.42
2:AA:2631:G:N2	2:AA:2810:A:H1'	2.35	0.42
2:AA:2649:U:N3	2:AA:2672:G:C2	2.88	0.42
2:AA:2652:C:N3	2:AA:2669:G:C2	2.88	0.42
2:AA:2678:C:C2'	2:AA:2679:A:H5'	2.50	0.42
2:AA:2687:U:O2	2:AA:2687:U:C2'	2.61	0.42
2:AA:279:C:H3'	2:AA:279:C:C6	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2887:U:H2'	2:AA:2888:C:C6	2.52	0.42
2:AA:297:C:C2'	2:AA:298:G:H5'	2.50	0.42
2:AA:310:A:C5	2:AA:312:G:C4	3.07	0.42
2:AA:311:A:C8	2:AA:332:A:C6	3.08	0.42
2:AA:339:U:H2'	2:AA:340:A:N7	2.28	0.42
2:AA:388:G:P	28:A4:29:PRO:HG3	2.60	0.42
2:AA:405:U:H5''	2:AA:406:G:O5'	2.20	0.42
2:AA:1444:G:C2'	2:AA:444(A):A:OP1	2.68	0.42
2:AA:530:G:C4	2:AA:2021:C:C4	3.08	0.42
2:AA:595:C:N3	2:AA:663:G:O6	2.52	0.42
2:AA:610:C:O2'	2:AA:611:C:H5'	2.19	0.42
2:AA:716:A:O5'	2:AA:716:A:H8	2.03	0.42
2:AA:740:U:O2	2:AA:1981:A:N9	2.53	0.42
2:AA:752:A:O2'	2:AA:753:C:C5	2.72	0.42
2:AA:81:G:N2	2:AA:106:C:C5	2.88	0.42
2:AA:853:G:O2'	2:AA:854:G:C4'	2.67	0.42
2:AA:867:C:OP1	2:AA:868:U:OP2	2.37	0.42
2:AA:879:G:N2	2:AA:880:G:N9	2.68	0.42
2:AA:885:C:H5''	2:AA:887:A:N1	2.34	0.42
2:AA:934:G:N2	2:AA:935:C:C2	2.88	0.42
1:AB:74:U:C3'	1:AB:75:G:H8	2.32	0.42
2:AA:2124:G:N7	3:AC:129:ARG:HG2	2.35	0.42
3:AC:132:GLY:N	3:AC:133:PRO:CD	2.83	0.42
3:AC:59:ARG:NE	3:AC:139:ASN:ND2	2.67	0.42
3:AC:56:GLN:NE2	3:AC:203:GLY:O	2.52	0.42
4:AD:147:PRO:C	4:AD:149:ARG:HH12	2.23	0.42
4:AD:161:ALA:CB	4:AD:173:VAL:HG12	2.34	0.42
4:AD:227:VAL:O	4:AD:227:VAL:HG22	2.19	0.42
4:AD:81:GLU:HG3	4:AD:92:LEU:HD11	2.00	0.42
5:AE:256:THR:HG22	5:AE:259:HIS:CE1	2.55	0.42
6:AF:115:LEU:HD13	6:AF:118:THR:CG2	2.49	0.42
8:AH:43:THR:HG1	8:AH:50:THR:CA	2.33	0.42
8:AH:7:PRO:O	8:AH:8:ILE:HG13	2.19	0.42
9:AI:103:LYS:HB2	9:AI:114:ILE:HG21	2.02	0.42
9:AJ:40:ALA:O	9:AJ:43:PRO:CD	2.65	0.42
9:AJ:49:ALA:O	9:AJ:52:ALA:HB3	2.19	0.42
9:AJ:63:LEU:HD21	9:AJ:118:LEU:HB3	2.02	0.42
9:AJ:80:ILE:CG2	9:AJ:81:THR:N	2.82	0.42
11:AL:124:ALA:O	11:AL:125:MET:C	2.58	0.42
12:AM:15:ARG:CB	12:AM:43:ARG:HD2	2.49	0.42
12:AM:6:PHE:HE1	12:AM:109:TYR:CZ	2.36	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:63:VAL:CG2	13:AN:85:VAL:HG23	2.32	0.42
14:AO:64:ILE:CB	14:AO:107:LYS:O	2.65	0.42
15:AP:85:ILE:HA	15:AP:122:PHE:HB3	2.02	0.42
15:AP:132:VAL:O	15:AP:135:ALA:N	2.52	0.42
15:AP:71:PHE:O	15:AP:138:ARG:NH1	2.52	0.42
15:AP:84:ARG:C	15:AP:85:ILE:HG23	2.41	0.42
18:AS:50:VAL:HG12	18:AS:105:VAL:CG2	2.50	0.42
18:AS:18:ARG:O	18:AS:19:LEU:C	2.59	0.42
19:AT:5:ILE:CG1	19:AT:40:ALA:CB	2.94	0.42
20:AU:105:ASP:O	20:AU:108:ARG:HB2	2.19	0.42
20:AU:22:GLN:O	20:AU:24:ARG:N	2.53	0.42
20:AU:77:VAL:CA	20:AU:89:ARG:NH1	2.65	0.42
11:AL:93:LYS:CD	21:AV:108:VAL:HG12	2.50	0.42
21:AV:138:VAL:HB	21:AV:140:LYS:NZ	2.33	0.42
21:AV:56:VAL:O	21:AV:56:VAL:HG12	2.20	0.42
21:AV:79:ILE:CG2	21:AV:80:HIS:CE1	3.02	0.42
22:AW:19:GLU:CD	22:AW:20:LEU:N	2.73	0.42
36:B1:59:A:O4'	36:B1:59:A:OP1	2.38	0.42
34:BA:1003:G:C2'	34:BA:1003:G:N3	2.83	0.42
34:BA:3(A):G:C6	34:BA:1004:A:H1'	2.54	0.42
34:BA:1005:A:H5'	34:BA:1037:C:H1'	2.01	0.42
34:BA:1089:G:C5	34:BA:1090:U:C5	3.08	0.42
34:BA:1089:G:C2	34:BA:1097:C:C2	3.08	0.42
34:BA:1128:C:N4	34:BA:1143:G:N1	2.67	0.42
34:BA:1229:A:O2'	34:BA:1230:C:O4'	2.38	0.42
34:BA:1252:A:C6	34:BA:1253:G:C8	3.07	0.42
34:BA:1275:A:N3	34:BA:1275:A:H2'	2.35	0.42
34:BA:1476:G:H2'	34:BA:1477:C:C6	2.54	0.42
34:BA:1479:C:H2'	34:BA:1480:G:O4'	2.19	0.42
34:BA:14:U:H3	34:BA:16:A:H3'	1.85	0.42
34:BA:1394:A:C5	34:BA:1501:C:O4'	2.73	0.42
34:BA:1507:A:H2'	34:BA:1508:G:O4'	2.18	0.42
34:BA:1509:C:O2'	34:BA:1510:U:H5'	2.20	0.42
34:BA:1497:G:O2'	34:BA:1519:A:H2	1.95	0.42
34:BA:1507:A:C2	34:BA:1530:G:C1'	3.02	0.42
34:BA:16:A:N6	34:BA:920:U:N3	2.68	0.42
34:BA:197:A:C6	34:BA:221:C:H5'	2.55	0.42
34:BA:255:G:H5'	52:BT:16:GLN:O	2.20	0.42
34:BA:270:A:N6	34:BA:271:C:N4	2.68	0.42
34:BA:46:G:OP1	34:BA:307:C:O4'	2.37	0.42
34:BA:330:C:H2'	34:BA:331:G:C8	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:422:C:OP2	34:BA:422:C:C6	2.72	0.42
34:BA:436:C:O2'	39:BG:157:LEU:HD11	2.20	0.42
34:BA:463:A:H1'	51:BS:82:GLN:HG2	2.01	0.42
34:BA:490:G:H8	34:BA:490:G:O5'	2.02	0.42
34:BA:502:G:C2	34:BA:503:C:C2	3.07	0.42
34:BA:545:C:OP1	39:BG:72:GLU:HG2	2.20	0.42
34:BA:690:G:C6	34:BA:691:G:C4	3.08	0.42
34:BA:696:A:N3	34:BA:697:U:C6	2.88	0.42
34:BA:730:G:N2	34:BA:765:G:C5'	2.83	0.42
34:BA:748:C:O2	34:BA:749:C:H5	2.03	0.42
34:BA:587:G:C2	34:BA:755:G:C4	3.08	0.42
34:BA:768:A:N6	34:BA:769:G:C5	2.87	0.42
34:BA:784:C:N3	34:BA:785:G:C8	2.87	0.42
34:BA:874:G:N2	34:BA:875:C:N1	2.67	0.42
34:BA:920:U:O2'	34:BA:921:U:H5'	2.20	0.42
34:BA:930:C:C2'	34:BA:931:C:O5'	2.68	0.42
34:BA:954:G:N2	34:BA:1228:C:C4	2.87	0.42
35:BC:75:C:H6	35:BC:75:C:H3'	1.84	0.42
37:BE:162:ILE:HD11	37:BE:177:ALA:HB1	2.00	0.42
38:BF:29:TYR:O	38:BF:29:TYR:HD2	2.03	0.42
38:BF:49:SER:O	38:BF:51:GLY:N	2.53	0.42
39:BG:19:LEU:HA	39:BG:19:LEU:HD23	1.83	0.42
40:BH:146:ALA:O	40:BH:147:ASP:C	2.57	0.42
40:BH:57:LYS:CG	40:BH:61:TYR:CE2	2.91	0.42
41:BI:57:GLN:N	41:BI:57:GLN:NE2	2.67	0.42
43:BK:103:VAL:CB	43:BK:108:GLY:C	2.85	0.42
43:BK:122:ARG:H	43:BK:122:ARG:CD	2.29	0.42
34:BA:878:G:OP1	43:BK:88:LYS:CB	2.68	0.42
44:BL:62:TYR:O	44:BL:63:ILE:HG13	2.19	0.42
46:BN:84:VAL:CG2	46:BN:109:VAL:O	2.67	0.42
46:BN:11:LYS:CA	46:BN:13:GLN:HE21	2.33	0.42
47:BO:27:LEU:HD22	47:BO:62:SER:HB3	2.00	0.42
34:BA:1227:A:O2'	48:BP:115:LYS:HD3	2.19	0.42
48:BP:45:VAL:O	48:BP:47:ASP:N	2.53	0.42
48:BP:55:ARG:HB2	48:BP:55:ARG:HE	1.55	0.42
51:BS:58:TYR:CD1	51:BS:59:TRP:CA	2.93	0.42
53:BU:28:GLU:OE1	53:BU:28:GLU:O	2.38	0.42
53:BU:17:SER:OG	53:BU:55:ARG:HD2	2.20	0.42
54:BV:15:LEU:CD2	54:BV:15:LEU:H	2.12	0.42
55:BW:22:ARG:O	55:BW:25:ARG:N	2.53	0.42
55:BW:89:ARG:HD3	55:BW:89:ARG:HH11	1.74	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:124:LEU:HD11	10:AK:146:THR:C	2.40	0.42
10:AK:78:THR:HG22	10:AK:144:HIS:NE2	2.34	0.42
10:AK:95:SER:OG	10:AK:115:ILE:CD1	2.64	0.42
2:AA:1484:G:C2	2:AA:1506:C:C4	3.07	0.42
38:BF:153:VAL:HB	38:BF:166:GLU:CB	2.29	0.42
10:AK:62:LEU:HB3	10:AK:66:LYS:HZ3	1.85	0.42
24:A0:25:ALA:CB	24:A0:48:VAL:HG22	2.50	0.42
2:AA:2881:C:O2'	24:A0:96:ARG:HA	2.20	0.42
26:A2:74:TYR:OH	26:A2:88:GLN:CA	2.58	0.42
27:A3:39:ARG:CG	27:A3:39:ARG:O	2.65	0.42
27:A3:45:PHE:CE1	27:A3:78:PHE:HD2	2.38	0.42
28:A4:43:TRP:C	28:A4:61:LYS:HE3	2.39	0.42
30:A6:46:LYS:HE2	30:A6:46:LYS:CA	2.45	0.42
30:A6:54:LYS:NZ	30:A6:54:LYS:CA	2.76	0.42
30:A6:8:ILE:H	30:A6:8:ILE:HG12	1.66	0.42
31:A7:21:ARG:CZ	31:A7:43:THR:CB	2.98	0.42
2:AA:1094:U:N3	2:AA:1096:A:H5''	2.35	0.42
2:AA:115:C:C2'	2:AA:116:C:O5'	2.68	0.42
2:AA:1191:G:H2'	2:AA:1192:G:C8	2.47	0.42
2:AA:816:C:N3	2:AA:1191:G:O6	2.53	0.42
2:AA:1210:A:H5'	2:AA:1211:U:C3'	2.42	0.42
2:AA:1233:C:C2	2:AA:1234:U:H6	2.38	0.42
2:AA:1331:A:H2'	2:AA:1333:C:H5	1.85	0.42
2:AA:140:A:H2'	2:AA:141:A:OP1	2.20	0.42
2:AA:1416:G:N2	2:AA:1582:C:N4	2.63	0.42
2:AA:1439:A:H2'	2:AA:1440:G:C4'	2.47	0.42
2:AA:143:C:P	2:AA:143:C:C6	3.13	0.42
2:AA:1444:G:C8	2:AA:1445:C:N4	2.88	0.42
2:AA:1570:A:C4	2:AA:1571:A:N7	2.88	0.42
2:AA:1578:U:O2	2:AA:1578:U:H2'	2.20	0.42
2:AA:1792:G:C3'	2:AA:1792:G:C8	3.02	0.42
2:AA:1815:A:O2'	2:AA:1816:G:P	2.75	0.42
2:AA:18:C:H4'	25:A1:24:PHE:O	2.20	0.42
2:AA:1922:G:C8	2:AA:1922:G:H3'	2.54	0.42
2:AA:1943:U:C2'	2:AA:1944:U:OP2	2.68	0.42
2:AA:2000:G:C6	2:AA:2001:A:N6	2.88	0.42
2:AA:2009:G:C2'	2:AA:2010:G:O5'	2.68	0.42
2:AA:2076:U:H6	2:AA:2076:U:H3'	1.84	0.42
2:AA:2099:U:H2'	2:AA:2100:G:O5'	2.20	0.42
2:AA:2103:C:O2'	2:AA:2104:G:C5'	2.62	0.42
2:AA:2238:G:H4'	2:AA:2240:C:H5	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2282:G:H5''	2:AA:2283:C:O5'	2.20	0.42
2:AA:2284:C:C4	2:AA:2285:C:C4	3.08	0.42
2:AA:2298:A:C2'	2:AA:2299:G:H5'	2.50	0.42
2:AA:2361:A:C4	2:AA:2362:G:C8	3.07	0.42
2:AA:2078:C:H1'	2:AA:2434:A:N3	2.35	0.42
2:AA:2463:C:N3	2:AA:2487:G:C6	2.85	0.42
2:AA:2467:C:C5	2:AA:2468:G:C6	3.08	0.42
2:AA:2492:U:C2	2:AA:2493:U:C5	3.07	0.42
2:AA:2495:G:O2'	15:AP:101:MET:CG	2.68	0.42
2:AA:2529:G:O5'	2:AA:2530:A:H5''	2.20	0.42
2:AA:2578:G:C2	2:AA:2579:C:C6	3.08	0.42
2:AA:2583:G:N3	2:AA:2584:U:O2	2.53	0.42
2:AA:2619:C:O2	2:AA:2620:C:C6	2.73	0.42
2:AA:2625:G:H3'	2:AA:2626:C:C6	2.54	0.42
2:AA:270(D):C:C2	2:AA:270(E):G:N7	2.88	0.42
2:AA:270(J):G:C6	2:AA:270(P):C:N3	2.84	0.42
2:AA:270(V):G:OP2	2:AA:270(V):G:H8	2.02	0.42
2:AA:2718:G:C2	2:AA:2719:G:C4	3.08	0.42
2:AA:271(C):U:C6	2:AA:271(C):U:O5'	2.73	0.42
2:AA:2688:U:C5	2:AA:2720:U:OP2	2.72	0.42
2:AA:271:G:C2'	2:AA:272:G:H8	2.16	0.42
2:AA:2754:U:C2	2:AA:2756:U:OP1	2.73	0.42
2:AA:2763:G:O5'	2:AA:2763:G:H8	2.02	0.42
2:AA:2740:A:H61	2:AA:2764:A:H1'	1.85	0.42
2:AA:297:C:N4	2:AA:342:G:N1	2.67	0.42
2:AA:325:G:C2	2:AA:326:G:C4	3.08	0.42
2:AA:360:G:O2'	2:AA:361:G:C4'	2.67	0.42
2:AA:364:C:OP2	2:AA:364:C:H6	2.03	0.42
2:AA:373:U:C2'	2:AA:374:A:OP2	2.67	0.42
2:AA:566:U:C2'	2:AA:567:A:H8	2.32	0.42
2:AA:576:U:C2	2:AA:577:G:C8	3.08	0.42
2:AA:596:G:C6	2:AA:597:U:C2	3.08	0.42
2:AA:612:G:O3'	2:AA:615:G:C2'	2.68	0.42
2:AA:613:U:O5'	2:AA:615:G:C8	2.73	0.42
2:AA:617:G:OP1	6:AF:219:ASN:ND2	2.53	0.42
2:AA:673:C:H4'	6:AF:82:GLN:CD	2.41	0.42
2:AA:711:G:H2'	2:AA:712:G:O5'	2.20	0.42
2:AA:756:C:H2'	2:AA:757:U:H5'	2.02	0.42
2:AA:764:A:OP1	4:AD:212:HIS:NE2	2.53	0.42
2:AA:797:C:O5'	2:AA:797:C:H6	2.02	0.42
2:AA:852:G:C6	2:AA:853:G:C5	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:874:G:N2	2:AA:875:G:C4	2.88	0.42
2:AA:958:U:O2'	2:AA:959:A:C5'	2.68	0.42
1:AB:48:A:H2'	1:AB:49:C:C5	2.55	0.42
1:AB:59:A:C5'	7:AG:144:ARG:NE	2.83	0.42
1:AB:62:C:C2	1:AB:63:G:N7	2.88	0.42
1:AB:71:C:C2	1:AB:72:G:N9	2.87	0.42
1:AB:73:A:C2	1:AB:74:U:C6	3.08	0.42
1:AB:91:C:HO2'	1:AB:92:G:H5'	1.83	0.42
3:AC:10:LEU:HG	3:AC:32:LEU:CD2	2.44	0.42
4:AD:104:ILE:O	4:AD:104:ILE:CD1	2.66	0.42
4:AD:130:PRO:HA	4:AD:188:ARG:HA	2.00	0.42
4:AD:191:VAL:HB	4:AD:192:GLY:H	1.66	0.42
4:AD:107:LYS:HB3	4:AD:193:GLU:OE1	2.19	0.42
4:AD:198:GLY:C	4:AD:200:THR:H	2.23	0.42
4:AD:63:ILE:HD12	4:AD:63:ILE:HG23	1.68	0.42
4:AD:66:PHE:HB3	4:AD:67:LYS:HZ2	1.85	0.42
5:AE:80:ALA:HB2	5:AE:185:GLY:O	2.20	0.42
6:AF:217:GLU:C	6:AF:218:VAL:CG2	2.88	0.42
6:AF:87:ARG:CG	6:AF:87:ARG:NH1	2.78	0.42
7:AG:151:ILE:HD13	7:AG:156:ARG:NH1	2.34	0.42
8:AH:43:THR:CG2	8:AH:52:THR:HG23	2.49	0.42
11:AL:100:VAL:HG12	11:AL:104:GLN:OE1	2.19	0.42
11:AL:140:VAL:O	11:AL:140:VAL:HG12	2.19	0.42
11:AL:72:THR:HG23	11:AL:115:ASP:CB	2.50	0.42
12:AM:24:SER:CB	12:AM:86:MET:CE	2.86	0.42
13:AN:19:VAL:CG1	13:AN:20:LEU:N	2.83	0.42
14:AO:142:LEU:O	14:AO:143:THR:C	2.58	0.42
14:AO:55:GLN:NE2	14:AO:56:LYS:HB3	2.34	0.42
15:AP:133:GLU:O	15:AP:133:GLU:OE1	2.37	0.42
15:AP:48:ASN:OD1	15:AP:121:ASP:OD1	2.37	0.42
16:AQ:38:LYS:NZ	16:AQ:114:LYS:CD	2.80	0.42
18:AS:76:VAL:HG23	18:AS:103:ILE:HA	2.02	0.42
18:AS:6:ILE:CG1	18:AS:104:THR:CG2	2.96	0.42
18:AS:15:ARG:O	18:AS:16:LYS:C	2.59	0.42
19:AT:6:LYS:CE	19:AT:29:ASP:HA	2.50	0.42
19:AT:9:HIS:NE2	19:AT:61:GLU:CD	2.74	0.42
20:AU:18:GLU:CA	20:AU:21:LYS:HD3	2.49	0.42
20:AU:19:ARG:HA	20:AU:22:GLN:HE21	1.81	0.42
21:AV:116:VAL:CG2	21:AV:169:VAL:HG22	2.50	0.42
21:AV:19:ILE:HG13	21:AV:79:ILE:CA	2.43	0.42
21:AV:37:LYS:O	21:AV:40:ASP:CB	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AX:20:LYS:O	23:AX:23:LEU:HG	2.20	0.42
23:AX:37:LEU:HA	23:AX:37:LEU:HD23	1.44	0.42
36:B1:50:G:C6	36:B1:51:G:O6	2.73	0.42
34:BA:30(D):A:H2'	34:BA:1031:G:C4'	2.50	0.42
34:BA:1076:C:N4	34:BA:1082:G:C6	2.88	0.42
34:BA:1086:U:C4	34:BA:1099:G:N1	2.82	0.42
34:BA:1129:C:O2'	34:BA:1131:G:C3'	2.63	0.42
34:BA:1129:C:O2	34:BA:1132:C:OP2	2.37	0.42
34:BA:1171:G:C2	34:BA:1172:C:C4	3.08	0.42
34:BA:1498:U:C2'	34:BA:1498:U:O2	2.67	0.42
34:BA:1537:U:N3	36:B1:53:G:C6	2.87	0.42
34:BA:158:G:C2	34:BA:164:U:O2	2.73	0.42
34:BA:233:C:C4	34:BA:234:C:C5	3.07	0.42
34:BA:307:C:H3'	34:BA:307:C:C2	2.54	0.42
34:BA:32:A:H2'	34:BA:33:A:H8	1.82	0.42
34:BA:372:C:C4	34:BA:389:A:N6	2.76	0.42
34:BA:371:G:C3'	34:BA:372:C:H5'	2.49	0.42
34:BA:373:A:C8	34:BA:482:A:C8	3.07	0.42
34:BA:411:A:C5	34:BA:429:U:C4	3.08	0.42
34:BA:440:A:N6	34:BA:495:U:C4	2.86	0.42
34:BA:497:A:H4'	34:BA:498:U:OP1	2.19	0.42
34:BA:539:A:H2'	34:BA:540:G:H8	1.83	0.42
34:BA:558:G:O5'	34:BA:559:A:O3'	2.38	0.42
34:BA:673:G:O2'	34:BA:674:G:N9	2.53	0.42
34:BA:761:G:C5	34:BA:762:C:C5	3.08	0.42
34:BA:774:G:C6	34:BA:775:G:N7	2.88	0.42
34:BA:791:G:C5	34:BA:792:A:N7	2.88	0.42
34:BA:8:A:C8	34:BA:8:A:OP2	2.73	0.42
34:BA:913:A:HO2'	34:BA:914:A:C4'	2.15	0.42
34:BA:920:U:C2	34:BA:921:U:H6	2.37	0.42
34:BA:975:A:C4	34:BA:1357:A:H2	2.38	0.42
34:BA:994:A:H2	49:BQ:4:LYS:CB	2.31	0.42
37:BE:186:ALA:O	37:BE:201:ILE:CB	2.58	0.42
37:BE:18:GLY:HA3	37:BE:41:ILE:CG2	2.45	0.42
37:BE:70:PHE:HE2	37:BE:163:PHE:CB	2.29	0.42
38:BF:120:VAL:CG2	38:BF:137:ALA:CB	2.98	0.42
38:BF:16:ARG:C	38:BF:17:ASP:OD1	2.58	0.42
38:BF:94:LEU:O	38:BF:95:THR:CG2	2.66	0.42
39:BG:79:PHE:O	39:BG:80:GLU:C	2.56	0.42
40:BH:65:ASN:ND2	40:BH:136:MET:CE	2.71	0.42
41:BI:73:ASN:O	41:BI:76:ALA:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BI:77:ARG:O	41:BI:78:GLU:C	2.57	0.42
42:BJ:13:GLN:HA	42:BJ:14:PRO:HD2	1.87	0.42
42:BJ:149:ARG:O	42:BJ:150:ALA:C	2.57	0.42
42:BJ:44:TYR:C	42:BJ:46:ALA:N	2.69	0.42
42:BJ:62:PHE:HA	42:BJ:124:LEU:HD21	2.02	0.42
43:BK:102:ARG:HB2	43:BK:105:ARG:HH11	1.85	0.42
43:BK:18:ARG:NH1	43:BK:18:ARG:HG3	2.34	0.42
43:BK:6:ILE:CG1	43:BK:85:ARG:HD3	2.50	0.42
44:BL:111:ARG:HB3	44:BL:113:LYS:HE3	2.02	0.42
44:BL:24:GLY:HA3	44:BL:57:GLY:HA2	2.02	0.42
44:BL:27:THR:HG22	44:BL:30:GLY:H	1.85	0.42
44:BL:97:LYS:O	44:BL:100:GLY:N	2.53	0.42
47:BO:8:ASN:C	47:BO:12:ARG:HH21	2.23	0.42
34:BA:1309:G:OP1	48:BP:88:ARG:HD2	2.19	0.42
50:BR:3:ILE:CG2	50:BR:34:LEU:HD21	2.45	0.42
52:BT:45:HIS:C	52:BT:73:VAL:HG23	2.33	0.42
52:BT:97:SER:C	52:BT:98:LEU:CG	2.82	0.42
55:BW:13:LEU:O	55:BW:14:LYS:O	2.38	0.42
55:BW:44:ALA:HB3	55:BW:91:LEU:HD12	2.02	0.42
10:AK:78:THR:OG1	10:AK:106:HIS:HE1	2.02	0.42
35:BB:22:G:C2	35:BB:23:A:N7	2.87	0.42
37:BE:29:ALA:O	37:BE:31:TYR:N	2.53	0.42
8:AH:39:ASP:CG	8:AH:39:ASP:O	2.58	0.42
24:A0:83:ILE:O	24:A0:86:ARG:HG3	2.19	0.41
25:A1:113:SER:HA	25:A1:116:ALA:HB2	2.01	0.41
25:A1:89:ASP:CG	26:A2:51:ALA:HB3	2.41	0.41
27:A3:26:PHE:CA	27:A3:60:PHE:CE1	3.03	0.41
2:AA:1365:A:OP2	28:A4:3:LYS:HD2	2.19	0.41
28:A4:41:PRO:HB2	28:A4:42:PHE:H	1.63	0.41
31:A7:4:THR:O	31:A7:6:GLN:OE1	2.37	0.41
32:A8:13:ARG:CB	32:A8:24:ALA:HB1	2.35	0.41
32:A8:40:GLU:C	32:A8:42:ARG:N	2.70	0.41
32:A8:5:LYS:HB3	32:A8:60:LEU:HA	2.02	0.41
2:AA:1028:A:C2	2:AA:1029:A:C5	3.08	0.41
2:AA:1044:G:C5	2:AA:1048:A:C4	3.08	0.41
2:AA:1175:U:O2	2:AA:1175:U:C2'	2.67	0.41
2:AA:1267:U:H2'	2:AA:1268:A:H5'	2.02	0.41
2:AA:1287:A:C6	2:AA:1649:G:O4'	2.73	0.41
2:AA:1314:C:P	2:AA:1332:G:H5'	2.59	0.41
2:AA:1338:G:N2	2:AA:1339:G:C4	2.88	0.41
2:AA:1342:A:C2	2:AA:1345:C:C5	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1376:C:C2'	2:AA:1377:G:H8	2.30	0.41
2:AA:1378:A:C8	2:AA:1380:G:C6	3.08	0.41
2:AA:1388:G:C5	2:AA:1389:G:C8	3.08	0.41
2:AA:1343:G:C2	2:AA:1405:U:C4	3.07	0.41
2:AA:135:G:C6	2:AA:144:C:N4	2.85	0.41
2:AA:1463:C:HO2'	2:AA:1464:C:C5'	2.33	0.41
2:AA:1599:C:H3'	2:AA:1599:C:C6	2.55	0.41
2:AA:1613:G:N9	2:AA:1617:C:N4	2.68	0.41
2:AA:1633:G:C6	2:AA:1635:G:N2	2.88	0.41
2:AA:1685:C:C2	2:AA:1704:G:C2	3.08	0.41
2:AA:1709:U:C5	2:AA:1710:C:C5	3.08	0.41
2:AA:1726:G:N1	2:AA:1734:C:O2	2.51	0.41
2:AA:1779:U:OP2	2:AA:1784:A:N6	2.48	0.41
2:AA:1807:G:N3	2:AA:1809:A:H5'	2.35	0.41
2:AA:1818:U:H2'	4:AD:153:LEU:HA	2.01	0.41
2:AA:1861:G:C2'	2:AA:1862:G:H5'	2.50	0.41
2:AA:1893:C:C6	2:AA:1894:C:H5	2.38	0.41
2:AA:1918:A:O4'	2:AA:1918:A:OP2	2.37	0.41
2:AA:1959:G:N1	2:AA:1960:A:C5	2.87	0.41
2:AA:1941:C:C4	2:AA:1965:C:C2	3.08	0.41
2:AA:197:A:O4'	2:AA:2068:U:C2	2.73	0.41
2:AA:1999:C:C4	2:AA:2000:G:N7	2.88	0.41
2:AA:2049:G:C2	2:AA:2620:C:C4	3.08	0.41
2:AA:2110:G:H3'	2:AA:2120:G:OP2	2.20	0.41
2:AA:2138:C:N3	2:AA:2139:C:C5	2.88	0.41
2:AA:2263:C:H2'	2:AA:2264:C:H6	1.85	0.41
2:AA:2273:A:C8	2:AA:2274:A:N9	2.88	0.41
2:AA:2278:A:OP1	15:AP:20:ILE:HG23	2.20	0.41
2:AA:2282:G:C4'	2:AA:2283:C:O5'	2.68	0.41
2:AA:2313:C:H4'	7:AG:72:LYS:HB3	2.02	0.41
2:AA:231:C:N3	2:AA:232:G:N2	2.51	0.41
2:AA:2333:A:O4'	2:AA:2335:A:C4	2.72	0.41
2:AA:2332:U:C2'	2:AA:2336:A:H62	2.29	0.41
2:AA:2443:C:C4	2:AA:2444:G:N7	2.87	0.41
2:AA:245:G:O6	2:AA:253:C:N4	2.53	0.41
2:AA:2461:C:O5'	2:AA:2461:C:C6	2.73	0.41
2:AA:247:G:N2	32:A8:8:LYS:HE3	2.35	0.41
2:AA:2458:G:N7	2:AA:2490:G:C4	2.87	0.41
2:AA:2589:A:N7	2:AA:2590:A:N7	2.68	0.41
2:AA:2688:U:O4	2:AA:2720:U:OP2	2.38	0.41
2:AA:270(C):C:N3	2:AA:270(W):G:C2	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2718:G:C2'	2:AA:2719:G:O5'	2.67	0.41
2:AA:2731:G:OP1	5:AE:265:ASN:CG	2.58	0.41
2:AA:298:G:O5'	2:AA:298:G:H8	2.03	0.41
2:AA:337:C:C3'	2:AA:338:G:H5'	2.36	0.41
2:AA:344:G:O3'	2:AA:345:A:O4'	2.38	0.41
2:AA:388:G:N3	2:AA:390:A:N1	2.68	0.41
2:AA:397:G:OP1	28:A4:41:PRO:CD	2.68	0.41
2:AA:495:G:C2'	2:AA:496:G:O5'	2.68	0.41
2:AA:526:A:N1	2:AA:2626:C:O4'	2.53	0.41
2:AA:531:C:C2	2:AA:532:A:O2'	2.65	0.41
2:AA:661:C:C2	2:AA:662:G:C8	3.08	0.41
2:AA:673:C:H2'	2:AA:674:G:C5'	2.50	0.41
2:AA:71:A:H3'	2:AA:71:A:P	2.60	0.41
2:AA:749:C:C5	2:AA:750:A:N7	2.88	0.41
2:AA:864:G:N2	2:AA:865:C:C4	2.88	0.41
2:AA:876:C:H6	2:AA:876:C:O5'	2.02	0.41
2:AA:861:A:C2	2:AA:917:A:C2	3.08	0.41
2:AA:931:G:C3'	2:AA:932:G:C8	3.03	0.41
2:AA:962:G:C2	2:AA:963:U:N3	2.88	0.41
2:AA:84:A:C6	2:AA:99:U:H1'	2.55	0.41
3:AC:163:PHE:CG	3:AC:171:ILE:HD11	2.55	0.41
3:AC:49:ILE:HB	3:AC:56:GLN:HG2	2.02	0.41
3:AC:74:VAL:HG13	3:AC:112:ALA:O	2.20	0.41
4:AD:77:VAL:HA	4:AD:93:ILE:HD12	2.02	0.41
4:AD:81:GLU:CG	4:AD:92:LEU:CD1	2.94	0.41
6:AF:158:GLU:OE2	6:AF:158:GLU:CA	2.67	0.41
7:AG:53:LYS:HD2	7:AG:69:ILE:CG2	2.50	0.41
2:AA:2667:C:O2	8:AH:108:TYR:HA	2.18	0.41
8:AH:163:TYR:O	8:AH:166:GLU:HG2	2.20	0.41
8:AH:34:ARG:HB3	8:AH:36:PHE:HE1	1.85	0.41
9:AI:18:LEU:CD1	9:AI:45:ALA:HA	2.50	0.41
9:AJ:103:LYS:HD3	9:AJ:114:ILE:CG2	2.50	0.41
10:AK:25:TYR:C	10:AK:29:PHE:CZ	2.93	0.41
11:AL:72:THR:HG21	11:AL:115:ASP:H	1.85	0.41
12:AM:103:VAL:HG12	12:AM:104:TYR:N	2.35	0.41
12:AM:46:ILE:CG2	12:AM:53:ILE:HD11	2.42	0.41
13:AN:77:ILE:O	13:AN:78:ARG:HG2	2.20	0.41
14:AO:66:VAL:N	14:AO:67:ARG:NH2	2.48	0.41
14:AO:67:ARG:NH1	14:AO:111:ALA:CB	2.69	0.41
15:AP:27:GLY:O	15:AP:28:ILE:HG12	2.19	0.41
16:AQ:72:GLU:HB3	16:AQ:74:PRO:HD2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AQ:76:GLY:O	16:AQ:80:SER:C	2.59	0.41
18:AS:11:ARG:HH11	18:AS:11:ARG:HG3	1.85	0.41
18:AS:84:ARG:C	18:AS:95:ILE:HG23	2.40	0.41
19:AT:18:MET:HA	19:AT:24:LEU:HA	2.01	0.41
19:AT:7:HIS:CD2	19:AT:27:ALA:CB	3.03	0.41
20:AU:50:VAL:CG1	20:AU:52:ARG:H	2.33	0.41
20:AU:71:VAL:O	20:AU:72:ILE:HG13	2.20	0.41
21:AV:103:ARG:HH12	21:AV:137:ASP:C	2.22	0.41
21:AV:163:ASP:OD2	21:AV:164:PRO:HG2	2.20	0.41
21:AV:36:ARG:HG3	21:AV:36:ARG:H	1.27	0.41
21:AV:46:GLN:HE21	21:AV:50:GLY:HA2	1.75	0.41
22:AW:19:GLU:OE2	22:AW:56:ILE:HD13	2.20	0.41
22:AW:51:LYS:O	22:AW:52:ALA:C	2.57	0.41
36:B1:66:G:C8	36:B1:66:G:P	3.13	0.41
34:BA:1051:C:C5	34:BA:1052:U:C4	3.08	0.41
34:BA:1163:C:C4	34:BA:1174:G:C2	3.08	0.41
34:BA:1193:G:N1	34:BA:1194:U:C2	2.88	0.41
34:BA:1061:G:C6	34:BA:1197:G:C6	3.07	0.41
34:BA:1283:G:C2'	34:BA:1284:C:C5'	2.95	0.41
34:BA:1300:G:C2'	34:BA:1301:U:OP2	2.68	0.41
34:BA:137:C:H2'	34:BA:138:G:C5'	2.50	0.41
34:BA:1508:G:C2'	34:BA:1509:C:O5'	2.68	0.41
34:BA:166:G:N1	34:BA:167:G:C8	2.88	0.41
34:BA:105:G:N2	34:BA:379:C:O2'	2.53	0.41
34:BA:380:G:N2	34:BA:383:A:OP2	2.52	0.41
34:BA:411:A:H3'	34:BA:411:A:H8	1.84	0.41
34:BA:41:G:C2	34:BA:42:G:C5	3.08	0.41
34:BA:428:G:C2	34:BA:430:A:C6	3.07	0.41
34:BA:483:C:N4	34:BA:484:G:N2	2.67	0.41
34:BA:584:G:N1	34:BA:585:G:C5	2.88	0.41
34:BA:606:G:N2	34:BA:632:A:H62	2.17	0.41
34:BA:667:G:N2	34:BA:740:U:N1	2.67	0.41
34:BA:696:A:H2'	34:BA:697:U:H6	1.84	0.41
34:BA:830:G:C2	34:BA:857:C:O2	2.73	0.41
34:BA:859:A:H2'	34:BA:860:A:C4'	2.48	0.41
34:BA:859:A:N7	34:BA:860:A:C4	2.88	0.41
34:BA:905:U:C4	34:BA:906:G:C4	3.08	0.41
34:BA:937:A:H2'	34:BA:938:A:C8	2.55	0.41
34:BA:981:U:C2'	34:BA:982:U:C5	3.00	0.41
34:BA:961:U:C5	34:BA:983:A:N6	2.88	0.41
35:BB:65:G:C4	35:BB:66:A:N7	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BC:23:A:C6	35:BC:24:G:C6	3.08	0.41
37:BE:150:SER:CA	37:BE:153:ARG:CB	2.84	0.41
37:BE:167:PRO:HG3	37:BE:188:ALA:HB2	2.02	0.41
37:BE:217:ARG:HH11	37:BE:217:ARG:CG	2.33	0.41
37:BE:35:GLU:C	37:BE:36:ARG:NE	2.73	0.41
37:BE:32:ILE:HD11	37:BE:40:HIS:CD2	2.54	0.41
37:BE:56:ARG:O	37:BE:59:GLU:HG3	2.20	0.41
38:BF:70:VAL:C	38:BF:106:VAL:HG23	2.37	0.41
38:BF:110:ASN:CB	38:BF:144:SER:OG	2.68	0.41
38:BF:157:ILE:O	38:BF:158:GLY:C	2.59	0.41
38:BF:172:ARG:NH2	38:BF:203:PHE:CE2	2.83	0.41
38:BF:21:ARG:O	38:BF:22:TRP:HD1	2.03	0.41
38:BF:59:ARG:HD3	38:BF:64:VAL:HG22	2.02	0.41
39:BG:134:ASP:C	39:BG:136:PRO:HD3	2.39	0.41
39:BG:151:LYS:C	39:BG:154:ASN:HD22	2.23	0.41
39:BG:173:TRP:NE1	39:BG:189:PRO:HD3	2.34	0.41
40:BH:95:ALA:HB3	40:BH:96:PRO:HD2	2.02	0.41
41:BI:83:ASP:O	41:BI:84:ASN:C	2.57	0.41
41:BI:80:ARG:CA	41:BI:85:VAL:HG11	2.50	0.41
42:BJ:69:VAL:CG2	42:BJ:134:ALA:HB1	2.41	0.41
42:BJ:146:GLU:HG2	42:BJ:149:ARG:CZ	2.50	0.41
42:BJ:14:PRO:HB3	42:BJ:21:VAL:N	2.35	0.41
43:BK:39:LEU:HD12	43:BK:44:PHE:HB3	2.02	0.41
43:BK:93:VAL:HB	43:BK:133:LEU:CD1	2.47	0.41
43:BK:97:VAL:HG12	43:BK:99:GLU:HG3	2.02	0.41
44:BL:10:ARG:HB2	44:BL:104:ARG:O	2.20	0.41
44:BL:53:VAL:O	44:BL:54:ASP:HB3	2.20	0.41
44:BL:99:LEU:O	44:BL:101:PHE:CE1	2.73	0.41
46:BN:40:ILE:C	46:BN:41:THR:CG2	2.89	0.41
46:BN:43:SER:CA	46:BN:47:VAL:HG11	2.48	0.41
46:BN:45:GLY:HA3	46:BN:55:LYS:CG	2.50	0.41
46:BN:66:LEU:O	46:BN:68:ALA:N	2.53	0.41
48:BP:29:ARG:HD3	48:BP:64:TRP:CD1	2.55	0.41
49:BQ:54:PRO:O	49:BQ:56:VAL:N	2.53	0.41
50:BR:32:LEU:N	50:BR:32:LEU:HD23	2.34	0.41
50:BR:3:ILE:CA	50:BR:38:ARG:NH2	2.83	0.41
50:BR:71:GLN:HA	50:BR:75:PRO:HA	2.01	0.41
52:BT:43:LEU:C	52:BT:43:LEU:CD2	2.88	0.41
52:BT:52:LYS:O	52:BT:55:ASP:OD2	2.38	0.41
52:BT:5:VAL:HG22	52:BT:59:ILE:O	2.20	0.41
41:BI:97:PHE:CD2	53:BU:31:LEU:HB2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BU:36:ASN:CG	53:BU:39:VAL:HB	2.40	0.41
53:BU:63:GLN:CA	53:BU:66:LEU:CD2	2.96	0.41
53:BU:79:LEU:O	53:BU:79:LEU:CD2	2.55	0.41
54:BV:53:ASN:HD21	54:BV:58:VAL:CG1	2.28	0.41
10:AK:95:SER:OG	10:AK:98:ILE:CB	2.68	0.41
10:AK:99:ALA:O	10:AK:100:GLU:C	2.58	0.41
40:BH:39:GLY:HA2	40:BH:69:VAL:HB	2.01	0.41
35:BB:72:C:H2'	35:BB:73:A:O5'	2.20	0.41
27:A3:11:LYS:C	27:A3:12:ASN:O	2.57	0.41
26:A2:46:VAL:O	26:A2:47:PHE:CG	2.73	0.41
25:A1:102:GLU:O	25:A1:105:ALA:HB3	2.20	0.41
25:A1:19:LYS:C	25:A1:21:ALA:N	2.71	0.41
25:A1:50:ARG:NH2	26:A2:74:TYR:CD2	2.79	0.41
25:A1:47:TYR:CZ	26:A2:75:LYS:C	2.94	0.41
27:A3:24:LYS:C	27:A3:26:PHE:CE1	2.93	0.41
27:A3:35:ASN:O	27:A3:36:ILE:CG1	2.67	0.41
28:A4:10:VAL:CG1	28:A4:10:VAL:O	2.65	0.41
32:A8:16:ILE:CD1	32:A8:64:ARG:HB3	2.50	0.41
2:AA:1071:G:C3'	2:AA:1072:C:C5'	2.98	0.41
2:AA:1164:G:O2'	2:AA:1165:U:H5'	2.19	0.41
2:AA:990:A:N6	2:AA:1186:G:H1'	2.35	0.41
2:AA:1316:U:C2	2:AA:1337:G:N2	2.88	0.41
2:AA:133:C:C2	2:AA:134:C:C6	3.09	0.41
2:AA:1387:C:N4	2:AA:1400:G:H1	2.14	0.41
2:AA:1468:C:N3	2:AA:1469:A:C5	2.88	0.41
2:AA:1628:G:H2'	2:AA:1629:U:C6	2.54	0.41
2:AA:1640:C:C5	2:AA:1641:A:N7	2.88	0.41
2:AA:1670:C:O5'	2:AA:1671:U:H5	2.03	0.41
2:AA:1679:U:O2	2:AA:1989:G:N2	2.39	0.41
2:AA:172:C:C2	2:AA:173:G:N7	2.88	0.41
2:AA:1791:A:O5'	2:AA:1791:A:C8	2.62	0.41
2:AA:1798:U:H1'	2:AA:1802:A:C2	2.55	0.41
2:AA:1802:A:N3	2:AA:1802:A:C2'	2.77	0.41
2:AA:1805:U:C5'	4:AD:235:PRO:HG2	2.50	0.41
2:AA:1807:G:N2	2:AA:1809:A:OP2	2.53	0.41
2:AA:1935:G:O2'	2:AA:1936:A:OP2	2.29	0.41
2:AA:1957:C:C2	2:AA:1958:C:C5	3.08	0.41
2:AA:1957:C:H3'	2:AA:1958:C:C6	2.55	0.41
2:AA:1986:A:C2	2:AA:1987:G:N9	2.88	0.41
2:AA:570:G:C5	2:AA:2030:A:N1	2.89	0.41
2:AA:2052:G:H4'	5:AE:239:GLY:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:207:A:N3	2:AA:208:C:C1'	2.82	0.41
2:AA:2122:U:N3	2:AA:2123:G:C8	2.88	0.41
2:AA:2148:G:H2'	2:AA:2149:G:C4'	2.45	0.41
2:AA:2181:G:N3	2:AA:2182:G:H5''	2.35	0.41
2:AA:2097:C:C2	2:AA:2192:G:N2	2.76	0.41
2:AA:2266:A:C2	2:AA:2272:U:C6	3.08	0.41
2:AA:2280:G:N3	2:AA:2281:C:C5	2.87	0.41
2:AA:2348:U:H5''	32:A8:42:ARG:NH2	2.31	0.41
2:AA:2391:G:H22	2:AA:2424:C:H3'	1.84	0.41
2:AA:2393:A:O2'	2:AA:2394:C:H5'	2.20	0.41
2:AA:199:A:C5	2:AA:2433:A:N7	2.88	0.41
2:AA:2516:G:C5	2:AA:2517:C:C4	3.09	0.41
2:AA:2525:G:C6	2:AA:2539:C:N4	2.88	0.41
2:AA:2558:C:H2'	2:AA:2558:C:O2	2.20	0.41
2:AA:2453:A:C4'	2:AA:2572:A:O2'	2.57	0.41
2:AA:2578:G:N3	2:AA:2579:C:C6	2.88	0.41
2:AA:221:A:C6	2:AA:266:G:N7	2.88	0.41
2:AA:2694:G:C2'	2:AA:2695:C:O5'	2.68	0.41
2:AA:271(B):G:OP1	2:AA:271(C):U:O4'	2.38	0.41
2:AA:2779:U:C6	2:AA:2779:U:C3'	3.03	0.41
2:AA:2792:G:C2	2:AA:2793:G:C6	3.08	0.41
2:AA:358:U:OP2	2:AA:359:A:N7	2.53	0.41
2:AA:422:A:C2	2:AA:423:A:O4'	2.73	0.41
2:AA:438:G:C6	2:AA:439:G:N7	2.88	0.41
2:AA:528:A:N7	2:AA:2042:A:N7	2.68	0.41
2:AA:614:U:OP2	2:AA:615:G:O4'	2.39	0.41
2:AA:627:A:N3	2:AA:637:A:C2	2.87	0.41
2:AA:656:G:H8	2:AA:656:G:P	2.43	0.41
2:AA:624:C:O2	2:AA:657:U:OP1	2.38	0.41
2:AA:705:A:C2	2:AA:706:A:C4	3.08	0.41
2:AA:72:U:O2'	2:AA:73:A:OP2	2.32	0.41
2:AA:759:G:N3	2:AA:760:G:C8	2.88	0.41
2:AA:804:A:C3'	2:AA:806:C:H42	2.33	0.41
2:AA:675:A:N7	2:AA:804:A:N1	2.69	0.41
2:AA:859:G:O4'	2:AA:859:G:P	2.78	0.41
2:AA:879:G:C2	2:AA:880:G:C4	3.09	0.41
2:AA:956:G:H2'	2:AA:957:A:H5'	2.00	0.41
2:AA:962:G:C2	2:AA:963:U:C2	3.08	0.41
2:AA:97:C:C5	2:AA:98:G:N7	2.88	0.41
2:AA:987:G:C2'	2:AA:988:A:C5'	2.82	0.41
2:AA:997:G:N3	2:AA:998:C:C5	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:21:G:C2	1:AB:63:G:C6	3.08	0.41
1:AB:94:C:H6	1:AB:94:C:O5'	2.02	0.41
3:AC:110:PHE:CE1	3:AC:113:VAL:HG23	2.54	0.41
3:AC:133:PRO:HG3	3:AC:134:ARG:HH12	1.81	0.41
3:AC:148:ASN:HB2	3:AC:151:GLU:CD	2.41	0.41
4:AD:134:ILE:CG2	4:AD:163:VAL:HG21	2.51	0.41
4:AD:141:HIS:O	4:AD:142:ASN:CB	2.69	0.41
4:AD:204:PHE:HB3	4:AD:209:ASN:HB2	2.01	0.41
5:AE:198:TYR:HD2	5:AE:265:ASN:HA	1.85	0.41
6:AF:138:VAL:O	6:AF:139:VAL:CB	2.68	0.41
6:AF:141:SER:O	6:AF:144:PHE:HD1	2.03	0.41
6:AF:206:ASN:O	6:AF:207:LEU:CD2	2.69	0.41
7:AG:93:LEU:CD1	7:AG:106:PHE:CD2	2.99	0.41
8:AH:115:GLU:OE2	8:AH:115:GLU:O	2.37	0.41
8:AH:58:LYS:CA	8:AH:61:ARG:NH1	2.83	0.41
8:AH:77:GLY:C	8:AH:79:SER:N	2.71	0.41
9:AI:103:LYS:HD3	9:AI:114:ILE:CG2	2.50	0.41
9:AI:61:VAL:CG1	9:AI:125:VAL:HG11	2.51	0.41
9:AJ:72:GLN:H	9:AJ:72:GLN:HG2	1.59	0.41
9:AJ:74:ILE:HD12	11:AL:61:TYR:CD2	2.38	0.41
2:AA:1082:U:O2'	11:AL:118:ALA:HB2	2.19	0.41
11:AL:61:TYR:CD1	11:AL:61:TYR:N	2.87	0.41
2:AA:1062:G:H21	11:AL:92:PRO:HG3	1.77	0.41
12:AM:45:VAL:CG1	12:AM:131:THR:OG1	2.69	0.41
2:AA:1020:A:H4'	12:AM:49:ARG:NH2	2.33	0.41
14:AO:92:ASP:CB	14:AO:118:LEU:CG	2.98	0.41
14:AO:92:ASP:OD1	14:AO:93:VAL:C	2.59	0.41
15:AP:94:ARG:NH1	15:AP:105:PHE:O	2.52	0.41
15:AP:43:PRO:HD2	15:AP:127:ASN:OD1	2.20	0.41
15:AP:64:ALA:CB	15:AP:142:LYS:HG3	2.48	0.41
15:AP:153:PRO:O	15:AP:154:ALA:CB	2.67	0.41
15:AP:34:GLY:CA	15:AP:83:PHE:CD1	3.03	0.41
15:AP:89:PRO:O	15:AP:89:PRO:CG	2.67	0.41
18:AS:29:LEU:CD1	18:AS:33:ARG:CD	2.91	0.41
18:AS:47:VAL:O	18:AS:50:VAL:HB	2.20	0.41
18:AS:79:GLY:O	18:AS:80:PRO:C	2.57	0.41
2:AA:72:U:OP2	19:AT:2:TRP:NE1	2.53	0.41
20:AU:101:LEU:CD2	20:AU:112:LEU:HD11	2.47	0.41
20:AU:80:GLU:CD	20:AU:86:GLU:HG2	2.40	0.41
21:AV:52:PHE:O	21:AV:65:LEU:CG	2.68	0.41
22:AW:28:LEU:O	22:AW:31:ARG:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AW:62:GLU:C	22:AW:64:GLY:N	2.67	0.41
34:BA:1108:G:H2'	34:BA:1109:C:C5'	2.49	0.41
34:BA:1160:G:N2	34:BA:1161:C:C6	2.87	0.41
34:BA:1164:G:C6	34:BA:1165:C:C4	3.08	0.41
34:BA:1167:A:H2'	34:BA:1168:A:C8	2.55	0.41
34:BA:1199:U:C4'	45:BM:54:PHE:HE2	2.34	0.41
34:BA:988:G:N1	34:BA:1217:C:C2	2.82	0.41
34:BA:1015:A:O2'	34:BA:1218:C:H4'	2.20	0.41
34:BA:944:G:O6	34:BA:1337:G:H8	2.03	0.41
34:BA:1338:G:N3	35:BC:41:U:O2'	2.53	0.41
34:BA:1343:G:H2'	34:BA:1344:C:O4'	2.19	0.41
34:BA:1348:U:O2	34:BA:1349:A:H8	2.03	0.41
34:BA:1350:A:C5	34:BA:1351:U:C4	3.08	0.41
34:BA:1415:G:C4	34:BA:1416:G:C8	3.08	0.41
34:BA:1438:G:C4	34:BA:1439:C:C6	3.08	0.41
34:BA:1530:G:N1	34:BA:1531:A:C6	2.88	0.41
34:BA:237:C:OP2	52:BT:40:LYS:NZ	2.52	0.41
34:BA:252:U:C2	34:BA:253:U:C5	3.08	0.41
34:BA:259:G:C2	34:BA:260:G:N3	2.88	0.41
34:BA:332:G:H2'	34:BA:333:G:O5'	2.20	0.41
34:BA:395:C:C2	34:BA:396:G:C8	3.09	0.41
34:BA:413:G:C2'	34:BA:414:A:OP2	2.68	0.41
34:BA:446:G:C6	34:BA:447:G:C5	3.08	0.41
34:BA:463:A:H2'	34:BA:474:G:O5'	2.20	0.41
34:BA:495:U:H2'	34:BA:496:A:H5'	2.02	0.41
34:BA:499:A:C2	34:BA:547:A:C2	3.09	0.41
34:BA:541:G:C2	34:BA:542:G:C8	3.08	0.41
34:BA:582:U:H1'	52:BT:105:ALA:HA	2.02	0.41
34:BA:690:G:H2'	34:BA:691:G:H5'	2.01	0.41
34:BA:713:G:C2	34:BA:714:G:N1	2.88	0.41
34:BA:917:G:HO2'	34:BA:918:A:H5'	1.84	0.41
34:BA:962:C:N4	34:BA:963:G:C6	2.88	0.41
35:BB:4:G:H2'	35:BB:5:A:O4'	2.20	0.41
35:BB:5:A:N1	35:BB:69:U:C2	2.88	0.41
35:BC:74:C:H2'	35:BC:75:C:C4'	2.50	0.41
35:BC:73:A:O2'	35:BC:74:C:OP2	2.37	0.41
37:BE:74:LYS:C	37:BE:76:GLN:H	2.23	0.41
39:BG:170:VAL:CG2	39:BG:176:LEU:CB	2.92	0.41
39:BG:64:LEU:HD13	39:BG:65:ARG:CA	2.50	0.41
41:BI:7:ASN:O	41:BI:89:MET:O	2.38	0.41
34:BA:939:G:H5''	42:BJ:102:ARG:HH22	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BJ:15:ASP:C	42:BJ:17:VAL:N	2.71	0.41
42:BJ:38:LEU:O	42:BJ:41:ARG:HB2	2.20	0.41
42:BJ:69:VAL:HG22	42:BJ:135:VAL:N	2.35	0.41
42:BJ:94:ARG:HH11	42:BJ:94:ARG:CG	2.30	0.41
43:BK:84:ARG:C	43:BK:135:CYS:HG	2.24	0.41
43:BK:18:ARG:H	43:BK:18:ARG:CD	2.29	0.41
45:BM:52:GLY:HA2	45:BM:53:PRO:HD2	1.85	0.41
46:BN:90:GLY:O	46:BN:92:GLU:N	2.53	0.41
47:BO:102:ARG:C	47:BO:104:VAL:N	2.74	0.41
47:BO:46:LYS:HE3	47:BO:47:LYS:CE	2.37	0.41
47:BO:70:ILE:HD13	47:BO:70:ILE:HG21	1.86	0.41
47:BO:73:GLU:OE2	47:BO:73:GLU:CA	2.67	0.41
49:BQ:26:ARG:O	49:BQ:28:GLY:N	2.47	0.41
50:BR:67:LEU:O	50:BR:68:ARG:C	2.58	0.41
51:BS:10:GLY:HA2	51:BS:14:ASN:HD21	1.84	0.41
51:BS:18:ARG:HA	51:BS:35:LYS:HZ2	1.83	0.41
34:BA:265:G:H5'	52:BT:65:ILE:HA	2.02	0.41
52:BT:75:ARG:NH1	52:BT:75:ARG:CG	2.70	0.41
34:BA:958:A:H5'	54:BV:55:LYS:HZ2	1.85	0.41
35:BB:31:A:C2	35:BB:40:C:N3	2.88	0.41
2:AA:1506:C:H2'	2:AA:1507:A:O5'	2.20	0.41
3:AC:167:LYS:HB2	3:AC:167:LYS:HE3	1.71	0.41
48:BP:69:GLU:CA	48:BP:72:ALA:HB3	2.50	0.41
24:A0:97:VAL:HG13	24:A0:114:VAL:HG21	1.92	0.41
25:A1:76:TYR:O	25:A1:80:ILE:CD1	2.68	0.41
25:A1:89:ASP:CG	26:A2:52:GLY:CA	2.89	0.41
25:A1:98:ILE:HD11	26:A2:13:ARG:NE	2.11	0.41
29:A5:43:HIS:O	29:A5:52:TYR:CE2	2.73	0.41
29:A5:56:GLN:O	29:A5:57:VAL:CG2	2.65	0.41
2:AA:2421:G:C5'	30:A6:4:ASP:OD1	2.54	0.41
31:A7:35:ARG:HB2	31:A7:36:ALA:H	1.68	0.41
2:AA:1034:G:C5	2:AA:1035:U:C5	3.08	0.41
2:AA:1061:U:O4'	2:AA:1070:A:O2'	2.36	0.41
2:AA:107:C:HO2'	2:AA:108:U:C5'	2.33	0.41
2:AA:1083:U:O2	2:AA:1083:U:H2'	2.19	0.41
2:AA:1181:C:C2	2:AA:1182:A:N7	2.88	0.41
2:AA:1219:G:N2	2:AA:1229:G:O6	2.53	0.41
2:AA:1224:G:O2'	26:A2:86:HIS:HB3	2.20	0.41
2:AA:122:G:C2	2:AA:130:C:N1	2.89	0.41
2:AA:1233:C:N3	2:AA:1234:U:C5	2.88	0.41
2:AA:1364:G:C4	2:AA:1368:G:C2	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1410:G:C6	2:AA:1593:G:N1	2.87	0.41
2:AA:1424:G:C6	2:AA:1425:G:C1'	3.03	0.41
2:AA:1447:G:H1'	2:AA:545(A):A:O4'	2.20	0.41
2:AA:150:C:H2'	2:AA:151:C:C5'	2.49	0.41
2:AA:1535:U:O5'	2:AA:1535:U:C2	2.73	0.41
2:AA:1276:A:P	2:AA:1645:G:HO2'	2.37	0.41
2:AA:1661:G:H2'	2:AA:1662:C:O5'	2.20	0.41
2:AA:1769:G:C2'	2:AA:1770:G:O5'	2.68	0.41
2:AA:181:A:C4	2:AA:182:A:C8	3.09	0.41
2:AA:1841:U:H3	2:AA:1901:A:H61	1.68	0.41
2:AA:1851:U:C2'	2:AA:1852:C:H6	2.26	0.41
2:AA:1859:A:C8	2:AA:1859:A:C3'	3.03	0.41
2:AA:1919:A:P	2:AA:1920:C:OP2	2.78	0.41
2:AA:1935:G:C5	2:AA:1962:C:C4	3.04	0.41
2:AA:2020:A:H62	29:A5:9:LYS:CE	2.32	0.41
2:AA:2086:U:H3	2:AA:2233:U:H3	1.67	0.41
2:AA:2101:G:C6	2:AA:2102:U:C4	3.08	0.41
2:AA:2278:A:N1	2:AA:2279:G:C4	2.88	0.41
2:AA:226:G:O2'	2:AA:227:A:O4'	2.37	0.41
2:AA:2404:C:C4	2:AA:2414:G:C2	3.08	0.41
2:AA:2455:G:C2	2:AA:2456:C:C2	3.09	0.41
2:AA:2475:C:HO2'	2:AA:2477:C:P	2.43	0.41
2:AA:2061:G:C4	2:AA:2503:A:C2	3.08	0.41
2:AA:2540:C:O2'	2:AA:2541:A:H5'	2.19	0.41
2:AA:2635:C:H2'	2:AA:2636:U:O5'	2.20	0.41
2:AA:2720:U:C6	2:AA:2721:A:N7	2.88	0.41
2:AA:2733:A:H1'	5:AE:318:ASN:ND2	2.36	0.41
2:AA:2747:G:N1	2:AA:2754:U:N3	2.68	0.41
2:AA:2804:C:O2	2:AA:2804:C:O4'	2.37	0.41
2:AA:2838:G:C2	2:AA:2839:G:C8	3.09	0.41
2:AA:2889:C:O2'	2:AA:2891:G:H5'	2.20	0.41
2:AA:300:A:C4	2:AA:334:C:H1'	2.56	0.41
2:AA:289:A:O2'	2:AA:351:G:N7	2.51	0.41
2:AA:382:G:H2'	2:AA:383:U:H5'	2.03	0.41
2:AA:269:U:C2	2:AA:424:G:C6	3.08	0.41
2:AA:451:C:H2'	2:AA:452:G:C8	2.55	0.41
2:AA:470:A:H3'	2:AA:471:A:H8	1.85	0.41
2:AA:485:C:N3	2:AA:495:G:O6	2.53	0.41
2:AA:537:C:O2'	2:AA:539:G:H5'	2.19	0.41
2:AA:558:G:C6	2:AA:559:G:O6	2.73	0.41
2:AA:588:U:O4	2:AA:589:C:N4	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:592:G:C2	2:AA:593:G:C8	3.09	0.41
2:AA:612:G:OP2	2:AA:612:G:O4'	2.39	0.41
2:AA:640:C:C2'	2:AA:641:C:C5'	2.90	0.41
2:AA:659:C:N3	2:AA:660:G:N7	2.68	0.41
2:AA:673:C:C2'	2:AA:674:G:O5'	2.68	0.41
2:AA:686:G:C8	31:A7:8:ASN:ND2	2.87	0.41
2:AA:700:G:C2	2:AA:701:G:C4	3.09	0.41
2:AA:735:A:C6	2:AA:736:C:C2	3.08	0.41
2:AA:892:G:O6	2:AA:893:C:N4	2.53	0.41
2:AA:993:G:H1'	2:AA:1162:G:C2	2.51	0.41
3:AC:143:GLY:C	3:AC:152:ILE:HG23	2.41	0.41
3:AC:56:GLN:CA	3:AC:201:PRO:CB	2.90	0.41
4:AD:181:ARG:HH11	4:AD:181:ARG:HB3	1.72	0.41
2:AA:2053:G:OP1	5:AE:241:TRP:HA	2.20	0.41
5:AE:76:PRO:CA	5:AE:292:PRO:CG	2.82	0.41
5:AE:269:ILE:CB	5:AE:297:LYS:HZ2	2.33	0.41
5:AE:45:LYS:N	5:AE:74:GLU:OE1	2.53	0.41
5:AE:66:GLU:HB2	5:AE:67:THR:H	1.73	0.41
6:AF:115:LEU:HD23	6:AF:246:ARG:HH22	1.81	0.41
7:AG:142:ALA:HB2	7:AG:151:ILE:HD11	2.02	0.41
7:AG:35:ALA:O	7:AG:36:ASN:ND2	2.53	0.41
8:AH:27:GLY:HA3	8:AH:28:PRO:HD2	1.94	0.41
10:AK:25:TYR:HB2	10:AK:26:ALA:H	1.55	0.41
12:AM:19:MET:CE	12:AM:19:MET:HA	2.28	0.41
12:AM:52:GLN:HB3	12:AM:56:LYS:HE2	2.01	0.41
12:AM:63:ILE:CB	12:AM:71:TYR:CZ	3.03	0.41
14:AO:81:VAL:HG12	14:AO:116:HIS:NE2	2.33	0.41
14:AO:65:ASP:OD1	14:AO:68:GLU:OE1	2.37	0.41
14:AO:75:LEU:C	14:AO:77:ALA:N	2.71	0.41
15:AP:67:ALA:CB	15:AP:70:ARG:HH11	2.31	0.41
16:AQ:9:PRO:HB2	16:AQ:10:MET:H	1.37	0.41
16:AQ:12:ARG:CD	16:AQ:20:TYR:CZ	3.03	0.41
16:AQ:22:GLN:HA	16:AQ:25:ARG:CB	2.50	0.41
16:AQ:41:LYS:C	16:AQ:41:LYS:HD3	2.41	0.41
18:AS:82:LEU:HD13	18:AS:82:LEU:N	2.35	0.41
19:AT:13:LYS:HB2	19:AT:13:LYS:HE2	1.75	0.41
19:AT:51:GLN:O	19:AT:52:VAL:HG23	2.19	0.41
19:AT:56:ASN:ND2	19:AT:62:LYS:HZ1	2.17	0.41
19:AT:24:LEU:HD12	19:AT:66:VAL:O	2.20	0.41
21:AV:124:ALA:C	21:AV:159:THR:HB	2.40	0.41
21:AV:114:ASP:HA	21:AV:170:SER:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:52:PHE:C	21:AV:65:LEU:HD21	2.41	0.41
23:AX:6:VAL:CG2	23:AX:55:ARG:O	2.68	0.41
36:B1:62:G:O4'	36:B1:62:G:OP1	2.38	0.41
34:BA:1085:U:P	34:BA:1086:U:H5	2.43	0.41
34:BA:1145:C:H1'	34:BA:1146:A:H8	1.83	0.41
34:BA:10:A:C2'	34:BA:11:G:O5'	2.69	0.41
34:BA:1347:G:N2	34:BA:1373:G:H2'	2.36	0.41
34:BA:1499:A:C2'	34:BA:1500:A:H5'	2.50	0.41
34:BA:1534:A:C4	34:BA:1534:A:C3'	2.93	0.41
34:BA:152:A:H62	34:BA:169:C:H42	1.67	0.41
34:BA:250:A:O4'	34:BA:252:U:C6	2.73	0.41
34:BA:280:C:H4'	34:BA:281:G:OP2	2.18	0.41
34:BA:39:G:C2	34:BA:40:C:C6	3.08	0.41
34:BA:483:C:O5'	34:BA:483:C:C6	2.74	0.41
34:BA:447:G:H21	34:BA:487:A:H62	1.68	0.41
34:BA:49:U:C2'	34:BA:50:A:OP1	2.68	0.41
34:BA:544:G:H2'	34:BA:545:C:O4'	2.20	0.41
34:BA:27:G:H22	34:BA:557:G:H1'	1.84	0.41
34:BA:604:G:C2	34:BA:605:U:C2	3.08	0.41
34:BA:627:G:O2'	34:BA:628:G:H5'	2.20	0.41
34:BA:703:G:O2'	34:BA:704:A:P	2.78	0.41
34:BA:729:A:H2'	34:BA:730:G:O5'	2.20	0.41
34:BA:786:G:C6	34:BA:787:A:C5	3.08	0.41
34:BA:819:A:O3'	34:BA:820:U:H6	2.02	0.41
34:BA:820:U:O4	34:BA:873:A:N7	2.53	0.41
34:BA:887:G:O2'	34:BA:888:G:H5'	2.20	0.41
34:BA:892:A:C2	34:BA:907:A:C4	3.08	0.41
34:BA:931:C:C4	34:BA:1387:G:C6	3.08	0.41
34:BA:996:A:N1	34:BA:997:U:C5	2.87	0.41
35:BB:2:C:C2'	35:BB:3:G:H5'	2.50	0.41
35:BC:60:C:O4'	35:BC:60:C:OP2	2.38	0.41
37:BE:102:LEU:HD13	37:BE:102:LEU:H	1.83	0.41
37:BE:88:ALA:O	37:BE:222:ILE:HD12	2.19	0.41
38:BF:22:TRP:HB2	38:BF:23:TYR:H	1.68	0.41
38:BF:52:LEU:O	38:BF:70:VAL:HG13	2.19	0.41
34:BA:542:G:H5'	39:BG:41:GLY:HA3	2.02	0.41
39:BG:56:VAL:O	39:BG:59:ARG:N	2.53	0.41
40:BH:11:ILE:CG2	40:BH:31:LEU:HD22	2.50	0.41
40:BH:19:MET:SD	40:BH:20:GLN:N	2.93	0.41
42:BJ:65:ALA:HB3	42:BJ:124:LEU:HD23	1.98	0.41
43:BK:14:ARG:NH1	43:BK:14:ARG:H	2.17	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BK:17:THR:O	43:BK:20:TYR:CD1	2.73	0.41
43:BK:63:LEU:N	43:BK:63:LEU:HD22	2.34	0.41
34:BA:600:C:P	43:BK:97:VAL:H	2.40	0.41
46:BN:44:SER:N	46:BN:47:VAL:HG21	2.35	0.41
46:BN:85:ARG:HA	46:BN:85:ARG:HD3	1.85	0.41
47:BO:109:GLY:HA3	47:BO:122:THR:HG23	2.01	0.41
34:BA:363:A:N7	47:BO:30:ALA:HB1	2.35	0.41
48:BP:44:ARG:O	48:BP:45:VAL:C	2.58	0.41
48:BP:88:ARG:O	48:BP:89:GLY:C	2.59	0.41
49:BQ:40:CYS:O	49:BQ:44:LEU:CB	2.64	0.41
50:BR:46:HIS:C	50:BR:48:LYS:N	2.74	0.41
51:BS:17:TYR:CD1	51:BS:17:TYR:N	2.88	0.41
34:BA:582:U:C1'	52:BT:105:ALA:O	2.68	0.41
52:BT:40:LYS:HE2	52:BT:40:LYS:HB3	1.42	0.41
52:BT:40:LYS:CE	52:BT:42:TYR:HE1	2.27	0.41
53:BU:66:LEU:CG	53:BU:67:ALA:N	2.83	0.41
53:BU:81:PHE:O	53:BU:82:THR:CG2	2.68	0.41
54:BV:21:GLU:O	54:BV:24:ALA:CB	2.68	0.41
54:BV:52:TYR:CE2	54:BV:54:GLY:C	2.93	0.41
55:BW:35:THR:HA	55:BW:38:LYS:HE3	2.02	0.41
55:BW:52:ALA:O	55:BW:55:ILE:HB	2.20	0.41
55:BW:90:GLN:O	55:BW:91:LEU:C	2.58	0.41
10:AK:111:ASP:OD2	10:AK:112:LYS:N	2.53	0.41
2:AA:1484:G:C2	2:AA:1485:G:C5	3.08	0.41
23:AX:58:VAL:C	23:AX:59:VAL:HG22	2.40	0.41
4:AD:169:LYS:HZ3	4:AD:169:LYS:HB2	1.86	0.41
9:AJ:5:GLU:O	9:AJ:8:GLU:HB2	2.20	0.41
2:AA:55:G:C4	2:AA:56:A:C8	3.08	0.41
41:BI:47:ARG:NH1	41:BI:47:ARG:CG	2.83	0.41
48:BP:94:ARG:HA	48:BP:94:ARG:HD3	1.89	0.41
24:A0:107:ASP:OD2	24:A0:109:ALA:N	2.46	0.41
24:A0:14:SER:O	24:A0:16:HIS:N	2.53	0.41
24:A0:58:GLY:CA	24:A0:80:PHE:CZ	3.00	0.41
25:A1:9:VAL:CG1	25:A1:13:ARG:NH2	2.63	0.41
26:A2:50:ASP:OD1	26:A2:53:LYS:CE	2.63	0.41
28:A4:31:ILE:N	28:A4:31:ILE:HD13	2.35	0.41
28:A4:48:ARG:CG	28:A4:49:PHE:N	2.80	0.41
30:A6:2:ALA:N	30:A6:11:LYS:HZ2	2.19	0.41
30:A6:38:LYS:HD2	30:A6:52:GLU:OE2	2.20	0.41
31:A7:20:ALA:HA	31:A7:23:LYS:CE	2.50	0.41
2:AA:1151:G:N2	2:AA:1152:C:C2	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1188:U:O2	2:AA:1188:U:C2'	2.61	0.41
2:AA:1198:U:C2'	2:AA:1199:U:OP2	2.69	0.41
2:AA:1227:A:OP1	25:A1:16:LYS:HE2	2.20	0.41
2:AA:1238:G:N1	2:AA:1240:U:C5	2.82	0.41
2:AA:1243:G:C2	2:AA:1244:G:C6	3.08	0.41
2:AA:132:G:OP2	2:AA:132:G:C8	2.74	0.41
2:AA:1333:C:C4'	2:AA:1333:C:C6	3.04	0.41
2:AA:1353:A:C5	2:AA:1354:A:N7	2.88	0.41
2:AA:1494:A:C4	2:AA:1494:A:C3'	2.91	0.41
2:AA:1529:A:C5'	2:AA:1530:G:H8	2.33	0.41
2:AA:1566:A:N1	4:AD:212:HIS:CD2	2.89	0.41
2:AA:1313:U:O2'	2:AA:1610:A:C2	2.68	0.41
2:AA:699:A:H1'	2:AA:1634:A:N7	2.35	0.41
2:AA:1670:C:P	2:AA:1671:U:H5	2.44	0.41
2:AA:15:G:O2'	2:AA:16:G:H5'	2.20	0.41
2:AA:1702:G:N1	2:AA:1703:G:C8	2.88	0.41
2:AA:162:U:H5'	2:AA:171:G:N3	2.35	0.41
2:AA:1817:G:C8	2:AA:1817:G:C4'	3.03	0.41
2:AA:1827:C:C2	2:AA:1828:G:O4'	2.73	0.41
2:AA:1863:G:C2	2:AA:1864:U:C2	3.09	0.41
2:AA:1894:C:C2'	2:AA:1895:C:O5'	2.68	0.41
2:AA:1897:G:O2'	2:AA:1898:U:H5'	2.20	0.41
2:AA:1919:A:OP2	2:AA:1920:C:H5	2.03	0.41
2:AA:1957:C:H3'	2:AA:1958:C:H6	1.84	0.41
2:AA:1935:G:N9	2:AA:1962:C:C4	2.86	0.41
2:AA:1966:A:C2'	2:AA:1967:C:OP2	2.68	0.41
2:AA:1969:A:H5'	2:AA:1970:A:H5'	2.01	0.41
2:AA:2107:C:H6	2:AA:2107:C:P	2.42	0.41
2:AA:2146:C:O3'	2:AA:2147:G:O4'	2.37	0.41
2:AA:2218:G:H2'	2:AA:2219:G:O5'	2.20	0.41
2:AA:2276:G:C4	2:AA:2277:G:C8	3.08	0.41
2:AA:2283:C:H42	2:AA:2325:G:H1	1.67	0.41
2:AA:2312:U:C4	2:AA:2313:C:N4	2.88	0.41
2:AA:2331:G:C6	2:AA:2332:U:N3	2.88	0.41
2:AA:2336:A:H2'	2:AA:2337:G:C5'	2.39	0.41
2:AA:233:A:N6	2:AA:430:G:N1	2.68	0.41
2:AA:2409:G:C2	2:AA:2410:G:C8	3.08	0.41
2:AA:2418:A:C5	2:AA:2419:U:C4	3.09	0.41
2:AA:2442:C:C2'	2:AA:2443:C:H5'	2.50	0.41
2:AA:2466:C:H41	2:AA:2467:C:N4	2.16	0.41
2:AA:2509:G:H2'	2:AA:2510:C:H5'	1.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2525:G:N1	2:AA:2539:C:C4	2.89	0.41
2:AA:2574:G:C2'	2:AA:2575:C:H6	2.21	0.41
2:AA:2054:A:H2	2:AA:2615:U:H3	1.68	0.41
2:AA:2681:C:H1'	2:AA:2682:U:H5	1.85	0.41
2:AA:2682:U:O4	2:AA:2728:U:O4'	2.39	0.41
2:AA:2861:G:O2'	2:AA:2862:G:O5'	2.38	0.41
2:AA:315:G:H2'	2:AA:316:C:O4'	2.19	0.41
2:AA:298:G:O6	2:AA:338:G:C4'	2.68	0.41
2:AA:497:A:N1	2:AA:498:G:C2	2.89	0.41
2:AA:49:A:H5'	2:AA:50:U:P	2.60	0.41
2:AA:628:G:C2	2:AA:629:G:C6	3.09	0.41
2:AA:659:C:H2'	2:AA:660:G:C8	2.48	0.41
2:AA:684:G:C2	2:AA:775:G:C6	3.08	0.41
2:AA:800:A:O2'	2:AA:801:G:P	2.79	0.41
2:AA:7:G:O2'	2:AA:8:A:O4'	2.26	0.41
2:AA:861:A:C6	2:AA:917:A:C6	3.08	0.41
2:AA:981:A:H1'	2:AA:2037:G:C4'	2.50	0.41
2:AA:997:G:H2'	2:AA:998:C:C6	2.56	0.41
1:AB:85:G:C2	1:AB:86:G:N7	2.88	0.41
3:AC:139:ASN:O	3:AC:144:THR:OG1	2.39	0.41
3:AC:10:LEU:CD2	3:AC:220:PRO:CD	2.97	0.41
3:AC:90:GLY:O	3:AC:91:ALA:O	2.37	0.41
4:AD:97:ASP:HB3	4:AD:99:GLU:HG2	2.02	0.41
6:AF:141:SER:OG	6:AF:144:PHE:CE1	2.71	0.41
6:AF:23:GLU:O	6:AF:24:THR:C	2.58	0.41
6:AF:89:ALA:C	6:AF:90:HIS:CD2	2.93	0.41
7:AG:44:ILE:O	7:AG:83:PHE:HZ	2.03	0.41
8:AH:71:LEU:O	8:AH:74:MET:N	2.53	0.41
8:AH:88:LEU:HD21	8:AH:94:ARG:HA	2.01	0.41
9:AI:103:LYS:HB3	9:AI:114:ILE:HD13	2.02	0.41
9:AJ:18:LEU:CD1	9:AJ:45:ALA:HA	2.51	0.41
11:AL:13:LEU:HD22	11:AL:24:VAL:CG2	2.50	0.41
12:AM:40:ASN:O	12:AM:42:GLU:HG2	2.20	0.41
13:AN:34:ASN:H	13:AN:62:VAL:HG21	1.84	0.41
15:AP:48:ASN:ND2	15:AP:122:PHE:CD1	2.88	0.41
15:AP:49:VAL:CG2	15:AP:121:ASP:N	2.83	0.41
18:AS:82:LEU:HD23	18:AS:98:LYS:HB3	1.97	0.41
2:AA:440:G:H3'	20:AU:3:GLN:NE2	2.35	0.41
20:AU:51:LEU:HD21	20:AU:95:ASN:OD1	2.20	0.41
21:AV:103:ARG:O	21:AV:141:MET:HE2	2.20	0.41
21:AV:56:VAL:O	21:AV:57:GLU:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:78:A:OP1	21:AV:73:LYS:CE	2.68	0.41
21:AV:72:ASP:HB2	21:AV:73:LYS:H	1.61	0.41
22:AW:27:LEU:HA	22:AW:27:LEU:HD23	1.61	0.41
23:AX:33:GLN:OE1	23:AX:34:GLU:C	2.58	0.41
36:B1:48:A:C2	36:B1:49:A:C5	3.08	0.41
34:BA:1003:G:OP2	34:BA:1003:G:C8	2.74	0.41
34:BA:1051:C:C4	34:BA:1052:U:O4	2.74	0.41
34:BA:1140:C:C2'	34:BA:1141:C:H5'	2.51	0.41
34:BA:1185:G:C2'	34:BA:1186:G:O4'	2.59	0.41
34:BA:1201:A:O2'	34:BA:1202:G:P	2.78	0.41
34:BA:1330:U:H4'	48:BP:23:TYR:OH	2.18	0.41
34:BA:135:C:O5'	34:BA:135:C:H6	2.04	0.41
34:BA:1365:G:C5	34:BA:1366:C:C5	3.08	0.41
34:BA:1367:C:OP1	44:BL:114:TYR:CA	2.61	0.41
34:BA:1379:G:C4	34:BA:1380:U:C5	3.09	0.41
34:BA:1494:G:C5	34:BA:1495:U:H5	2.38	0.41
34:BA:19:C:C2	34:BA:20:U:C5	3.08	0.41
34:BA:281:G:O2'	34:BA:282:A:C8	2.61	0.41
34:BA:372:C:N4	34:BA:390:C:C2	2.87	0.41
34:BA:37:U:C2'	34:BA:38:G:H5'	2.51	0.41
34:BA:445:G:N3	34:BA:446:G:C8	2.89	0.41
34:BA:43:C:N3	34:BA:44:G:C8	2.88	0.41
34:BA:459:G:N2	34:BA:462:G:C6	2.88	0.41
34:BA:528:C:O4'	34:BA:535:A:N1	2.54	0.41
34:BA:27:G:N1	34:BA:557:G:N3	2.68	0.41
34:BA:574:A:O5'	34:BA:574:A:H8	2.03	0.41
34:BA:595:G:C8	34:BA:641:U:O4	2.73	0.41
34:BA:673:G:N2	34:BA:674:G:N1	2.68	0.41
34:BA:781:A:N1	34:BA:802:A:N3	2.68	0.41
34:BA:946:A:N6	34:BA:1236:A:N1	2.68	0.41
34:BA:978:A:N6	34:BA:1361:G:H21	2.17	0.41
34:BA:996:A:N1	34:BA:997:U:O4	2.52	0.41
35:BB:35:A:H2'	35:BB:36:A:H8	1.85	0.41
37:BE:112:VAL:O	37:BE:113:HIS:C	2.58	0.41
37:BE:67:THR:OG1	37:BE:155:LEU:HD11	2.21	0.41
38:BF:138:VAL:HG13	38:BF:149:ALA:CB	2.50	0.41
38:BF:12:LEU:HB3	38:BF:17:ASP:HA	2.03	0.41
38:BF:189:ALA:HB1	38:BF:196:LEU:HG	2.02	0.41
39:BG:165:MET:CE	39:BG:165:MET:O	2.68	0.41
39:BG:196:LEU:HB3	39:BG:198:VAL:HG23	2.02	0.41
39:BG:56:VAL:O	39:BG:57:ARG:C	2.57	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BH:109:ILE:HG13	40:BH:135:THR:CG2	2.42	0.41
40:BH:15:ARG:NH2	40:BH:26:PHE:CE2	2.88	0.41
41:BI:96:PRO:HA	53:BU:32:ARG:HG3	2.00	0.41
42:BJ:40:ALA:O	42:BJ:44:TYR:CD1	2.73	0.41
42:BJ:44:TYR:O	42:BJ:47:CYS:N	2.53	0.41
43:BK:112:LEU:HD22	43:BK:114:THR:HG22	2.01	0.41
43:BK:13:ILE:O	43:BK:14:ARG:C	2.58	0.41
44:BL:28:VAL:HG21	44:BL:33:PHE:CA	2.48	0.41
47:BO:110:VAL:O	47:BO:113:ARG:HB2	2.20	0.41
47:BO:79:GLU:OE1	47:BO:80:HIS:CE1	2.68	0.41
49:BQ:26:ARG:NH1	49:BQ:47:LEU:CD2	2.83	0.41
34:BA:128:G:H5'	52:BT:2:PRO:CD	2.51	0.41
52:BT:17:LYS:NZ	52:BT:47:PRO:HA	2.35	0.41
53:BU:26:LEU:CD2	53:BU:39:VAL:HG13	2.51	0.41
53:BU:83:GLU:HA	53:BU:83:GLU:OE1	2.21	0.41
54:BV:20:LEU:HD12	54:BV:21:GLU:CA	2.50	0.41
55:BW:53:LEU:HG	55:BW:53:LEU:H	1.57	0.41
55:BW:65:LYS:O	55:BW:68:LYS:N	2.53	0.41
55:BW:96:GLY:O	55:BW:97:ALA:HB3	2.20	0.41
56:BX:20:LYS:HE3	56:BX:21:TYR:CE1	2.55	0.41
35:BB:28:C:C2	35:BB:29:A:H8	2.23	0.41
35:BB:31:A:N3	35:BB:31:A:C2'	2.83	0.41
10:AK:79:ILE:CB	10:AK:145:VAL:HG22	2.33	0.41
10:AK:124:LEU:CD1	10:AK:146:THR:CA	2.99	0.41
10:AK:82:LYS:N	10:AK:89:LEU:CD2	2.83	0.41
10:AK:82:LYS:N	10:AK:89:LEU:HD23	2.34	0.41
35:BB:22:G:C2	35:BB:23:A:C5	3.08	0.41
37:BE:130:ARG:HB3	37:BE:134:GLU:HG2	1.99	0.41
37:BE:131:PRO:HG2	37:BE:134:GLU:OE2	2.21	0.41
23:AX:1:MET:HE3	23:AX:3:ARG:HD2	2.01	0.41
36:B1:18:U:C4	36:B1:19:G:C5	3.09	0.41
35:BB:21:A:C6	35:BB:46:G:N2	2.88	0.41
15:AP:129:ASP:C	15:AP:129:ASP:OD1	2.57	0.41
2:AA:1574:C:C4	2:AA:1575:C:N4	2.88	0.41
24:A0:116:LEU:HG	24:A0:116:LEU:H	1.01	0.41
25:A1:27:SER:O	25:A1:29:SER:N	2.53	0.41
2:AA:1364:G:OP1	28:A4:43:TRP:HH2	2.04	0.41
30:A6:26:LYS:C	30:A6:27:ASN:CG	2.79	0.41
31:A7:25:LYS:O	31:A7:26:SER:C	2.59	0.41
2:AA:1075:C:O2	2:AA:1075:C:C2'	2.69	0.41
2:AA:1081:U:O4	2:AA:1086:A:C4	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1134:G:O6	2:AA:1137:G:N7	2.53	0.41
2:AA:990:A:C5'	2:AA:1157:G:OP1	2.68	0.41
2:AA:839:U:H4'	2:AA:1191:G:H21	1.85	0.41
2:AA:1191:G:H3'	2:AA:1191:G:C8	2.55	0.41
2:AA:330:A:O4'	2:AA:1210:A:C6	2.73	0.41
2:AA:1420:U:O2	2:AA:1421:G:N7	2.53	0.41
2:AA:1472:A:N6	2:AA:1474:C:N4	2.62	0.41
2:AA:1513:C:C3'	2:AA:1513:C:H6	2.34	0.41
2:AA:1660:C:C2	2:AA:2001:A:N1	2.88	0.41
2:AA:1748:G:N3	2:AA:1749:A:C8	2.89	0.41
2:AA:1812:A:C2'	2:AA:1813:G:C5'	2.96	0.41
2:AA:1844:C:C6	2:AA:1897:G:N2	2.89	0.41
2:AA:1897:G:H2'	2:AA:1898:U:C5'	2.50	0.41
2:AA:189:G:N3	2:AA:189:G:H2'	2.36	0.41
2:AA:1910:G:C6	2:AA:1911:U:N3	2.88	0.41
2:AA:1913:A:N6	2:AA:1917:U:P	2.93	0.41
2:AA:1936:A:C6	2:AA:1945:G:C5	3.08	0.41
2:AA:1959:G:C2	2:AA:1960:A:C8	3.09	0.41
2:AA:1959:G:C6	2:AA:1960:A:N7	2.89	0.41
2:AA:2016:U:O2'	2:AA:2017:U:H5'	2.20	0.41
2:AA:2033:A:P	2:AA:2033:A:O4'	2.78	0.41
2:AA:2098:U:C4	2:AA:2191:G:O6	2.73	0.41
2:AA:2262:U:OP2	27:A3:14:ARG:NE	2.51	0.41
2:AA:2265:U:O2	2:AA:2265:U:C2'	2.67	0.41
2:AA:2309:A:H5'	2:AA:2310:A:OP2	2.19	0.41
2:AA:2311:A:H2'	2:AA:2312:U:H6	1.85	0.41
2:AA:2320:A:N1	16:AQ:13:ARG:HD2	2.36	0.41
2:AA:2373:G:O2'	2:AA:2374:C:C5'	2.68	0.41
2:AA:2291:U:O2'	2:AA:2374:C:H1'	2.20	0.41
2:AA:2430:A:C3'	2:AA:2431:U:H5'	2.50	0.41
2:AA:2456:C:C2'	2:AA:2457:U:C5'	2.98	0.41
2:AA:2544:G:O5'	2:AA:2544:G:C8	2.67	0.41
2:AA:270(C):C:C4	2:AA:270(W):G:N2	2.83	0.41
2:AA:273:G:H2'	2:AA:273(A):G:H8	1.85	0.41
2:AA:2762:G:C5	2:AA:2763:G:C5	3.08	0.41
2:AA:2791:C:H5	2:AA:2893:G:O6	2.03	0.41
2:AA:2811:G:N1	2:AA:2891:G:N3	2.68	0.41
2:AA:2836:U:O2'	2:AA:2837:G:O5'	2.38	0.41
2:AA:290:G:O2'	2:AA:291:C:H5'	2.19	0.41
2:AA:326:G:C4	2:AA:327:G:N7	2.89	0.41
2:AA:335:C:C2'	2:AA:336:C:O5'	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:338:G:P	2:AA:338:G:C3'	2.96	0.41
2:AA:414:C:H1'	2:AA:1864:U:HO2'	1.84	0.41
2:AA:426:C:O2'	2:AA:427:U:H5'	2.21	0.41
2:AA:429:A:C5	2:AA:430:G:O6	2.73	0.41
2:AA:449:A:H2'	2:AA:449:A:N3	2.35	0.41
2:AA:449:A:H2	2:AA:450:G:N9	2.10	0.41
2:AA:508:G:H4'	2:AA:509:C:C5'	2.51	0.41
2:AA:514:A:C2	2:AA:515:A:C8	3.08	0.41
2:AA:70:G:C6	2:AA:114:U:O4	2.73	0.41
2:AA:733:G:N7	2:AA:761:A:N6	2.67	0.41
2:AA:75:G:O2'	22:AW:51:LYS:HE2	2.20	0.41
2:AA:778:G:N2	2:AA:787:U:C1'	2.83	0.41
2:AA:804:A:C5'	2:AA:805:G:OP1	2.65	0.41
2:AA:817:C:O2	2:AA:839:U:C5'	2.68	0.41
2:AA:843:G:H2'	2:AA:844:C:H6	1.85	0.41
2:AA:854:G:N3	2:AA:855:G:C8	2.89	0.41
2:AA:920:G:N3	2:AA:921:G:C8	2.89	0.41
2:AA:936:C:N3	2:AA:937:U:C4	2.89	0.41
2:AA:939:G:HO2'	2:AA:940:G:H5'	1.84	0.41
1:AB:100:G:C2'	1:AB:101:A:H8	2.21	0.41
1:AB:61:G:C2	1:AB:62:C:N3	2.85	0.41
1:AB:68:C:C5	1:AB:69:G:C8	3.07	0.41
4:AD:213:LYS:HG3	4:AD:215:LYS:HB2	2.03	0.41
5:AE:261:ARG:C	5:AE:262:THR:HG22	2.41	0.41
5:AE:271:ILE:HG12	5:AE:294:THR:CB	2.49	0.41
5:AE:42:ALA:O	5:AE:189:MET:HE1	2.19	0.41
5:AE:44:TYR:C	5:AE:74:GLU:OE1	2.59	0.41
5:AE:44:TYR:CE1	5:AE:308:VAL:CG1	2.88	0.41
6:AF:103:ASN:O	6:AF:104:ASP:C	2.57	0.41
6:AF:118:THR:O	6:AF:119:ALA:C	2.59	0.41
7:AG:136:ARG:O	7:AG:139:TYR:CD1	2.73	0.41
8:AH:32:LEU:HD12	8:AH:136:ASP:OD2	2.21	0.41
8:AH:20:GLY:C	8:AH:21:ASN:OD1	2.59	0.41
8:AH:40:MET:CA	8:AH:54:PRO:CG	2.97	0.41
8:AH:53:ARG:CB	8:AH:56:ASP:OD1	2.59	0.41
8:AH:55:SER:C	8:AH:57:GLU:HG2	2.41	0.41
8:AH:55:SER:OG	8:AH:60:HIS:HB2	2.20	0.41
8:AH:98:GLN:O	8:AH:99:GLY:O	2.38	0.41
9:AI:63:LEU:HD13	9:AI:66:PHE:HZ	1.82	0.41
10:AK:44:LEU:HA	10:AK:47:LEU:CD2	2.49	0.41
11:AL:18:ALA:CB	11:AL:39:CYS:O	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:54:VAL:CA	12:AM:135:ILE:CD1	2.99	0.41
13:AN:14:SER:OG	13:AN:95:GLY:N	2.52	0.41
14:AO:56:LYS:H	14:AO:56:LYS:HG2	1.72	0.41
2:AA:2275:C:O2'	15:AP:103:ALA:HB1	2.18	0.41
15:AP:32:LYS:HG3	15:AP:32:LYS:O	2.19	0.41
15:AP:57:ARG:CB	15:AP:60:ALA:CB	2.97	0.41
16:AQ:110:THR:HG23	16:AQ:115:VAL:H	1.84	0.41
16:AQ:48:VAL:CG1	16:AQ:55:ASP:OD2	2.68	0.41
16:AQ:97:VAL:O	16:AQ:98:GLU:HG2	2.21	0.41
17:AR:35:LYS:HE2	17:AR:35:LYS:HB3	1.53	0.41
18:AS:19:LEU:HA	18:AS:19:LEU:HD23	1.87	0.41
18:AS:84:ARG:O	18:AS:95:ILE:CB	2.69	0.41
19:AT:25:GLN:C	19:AT:26:PHE:CD1	2.93	0.41
19:AT:34:LYS:NZ	19:AT:52:VAL:CG1	2.73	0.41
21:AV:160:LEU:HD12	21:AV:160:LEU:N	2.35	0.41
21:AV:46:GLN:HG3	21:AV:50:GLY:N	2.36	0.41
21:AV:70:GLN:CG	21:AV:72:ASP:CB	2.97	0.41
23:AX:44:ARG:O	23:AX:48:GLU:OE1	2.39	0.41
34:BA:1020:U:H2'	34:BA:1021:G:H8	1.82	0.41
34:BA:1055:A:H2'	34:BA:1056:U:O5'	2.20	0.41
34:BA:1057:G:H5'	38:BF:196:LEU:HA	2.02	0.41
34:BA:1058:G:C4	34:BA:1059:C:C6	3.08	0.41
34:BA:1062:U:O4	38:BF:3:ASN:OD1	2.37	0.41
34:BA:1255:G:HO2'	34:BA:1258:G:H1'	1.84	0.41
34:BA:1353:G:C6	34:BA:1370:G:C2	3.09	0.41
34:BA:1477:C:C4	34:BA:1478:C:C5	3.09	0.41
34:BA:1412:C:C2	34:BA:1489:G:C2	3.08	0.41
34:BA:791:G:N2	34:BA:1497:G:C4'	2.84	0.41
34:BA:22:G:H3'	34:BA:23:C:C6	2.49	0.41
34:BA:231:G:N1	34:BA:232:G:C5	2.88	0.41
34:BA:28:G:N1	34:BA:556:C:C4	2.89	0.41
34:BA:354:G:H2'	34:BA:355:C:O5'	2.20	0.41
34:BA:354:G:C2'	34:BA:355:C:O5'	2.67	0.41
34:BA:384:G:C5	34:BA:385:C:C5	3.09	0.41
34:BA:37:U:H2'	34:BA:38:G:H5'	2.01	0.41
34:BA:3(A):G:C6	34:BA:1038:C:C2	3.09	0.41
34:BA:423:G:N2	34:BA:424:G:C5	2.88	0.41
34:BA:476:G:H2'	34:BA:477:G:H8	1.84	0.41
34:BA:437:U:N3	34:BA:496:A:N7	2.69	0.41
34:BA:522:C:O4'	34:BA:536:C:H4'	2.20	0.41
34:BA:538:G:O2'	47:BO:114:LYS:NZ	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:540:G:N3	34:BA:541:G:C1'	2.83	0.41
34:BA:591:U:O2	34:BA:648:A:N1	2.53	0.41
34:BA:628:G:H2'	34:BA:629:G:O4'	2.21	0.41
34:BA:707:C:C4	34:BA:708:C:C5	3.09	0.41
34:BA:722:A:O3'	34:BA:723:U:C4	2.73	0.41
34:BA:926:G:C4	34:BA:1505:G:N2	2.88	0.41
34:BA:938:A:C2'	34:BA:939:G:O5'	2.68	0.41
34:BA:976:G:C2'	34:BA:977:A:OP2	2.68	0.41
34:BA:982:U:H3	34:BA:1223:C:H42	1.67	0.41
34:BA:990:C:H2'	34:BA:991:U:N1	2.31	0.41
34:BA:992:U:O2'	34:BA:993:G:P	2.79	0.41
35:BB:8:U:C3'	35:BB:8:U:C6	3.04	0.41
35:BC:11:C:O2'	35:BC:12:U:C5'	2.64	0.41
37:BE:114:ARG:HA	37:BE:117:GLU:OE2	2.20	0.41
37:BE:20:GLU:C	37:BE:39:ILE:CD1	2.89	0.41
37:BE:72:GLY:HA3	37:BE:165:VAL:HG13	2.01	0.41
37:BE:92:TYR:CE2	37:BE:151:GLY:HA2	2.54	0.41
34:BA:509:A:H5'	39:BG:54:TYR:HD2	1.84	0.41
39:BG:57:ARG:HG3	39:BG:202:LEU:O	2.20	0.41
34:BA:8:A:C5'	40:BH:121:LYS:HA	2.51	0.41
40:BH:57:LYS:O	40:BH:61:TYR:CD2	2.74	0.41
40:BH:78:HIS:CD2	40:BH:78:HIS:N	2.87	0.41
41:BI:39:LYS:HB3	41:BI:39:LYS:HE3	1.60	0.41
41:BI:52:ILE:CD1	41:BI:87:ARG:HH22	2.31	0.41
43:BK:136:GLU:O	43:BK:137:VAL:CG2	2.69	0.41
40:BH:151:LEU:CD2	43:BK:65:TYR:O	2.62	0.41
44:BL:82:ALA:CB	44:BL:101:PHE:CD2	3.04	0.41
44:BL:103:THR:CG2	44:BL:104:ARG:N	2.83	0.41
44:BL:110:GLU:OE2	44:BL:111:ARG:O	2.39	0.41
44:BL:26:VAL:HA	44:BL:61:ALA:O	2.21	0.41
44:BL:48:GLU:CA	44:BL:51:ARG:CZ	2.98	0.41
45:BM:3:LYS:CD	45:BM:3:LYS:N	2.59	0.41
46:BN:44:SER:O	46:BN:48:ILE:HG13	2.20	0.41
46:BN:92:GLU:O	46:BN:96:ARG:HB2	2.20	0.41
47:BO:56:ALA:HB3	47:BO:100:ILE:CD1	2.51	0.41
47:BO:69:TYR:O	47:BO:100:ILE:CD1	2.68	0.41
34:BA:36:C:C5'	47:BO:122:THR:O	2.65	0.41
48:BP:20:THR:OG1	48:BP:25:ILE:HG22	2.20	0.41
48:BP:38:GLY:O	48:BP:55:ARG:NH2	2.53	0.41
50:BR:7:GLU:O	50:BR:10:LYS:N	2.53	0.41
50:BR:43:LEU:CD2	50:BR:49:ASP:HB3	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BS:14:ASN:CA	51:BS:42:ARG:NH2	2.72	0.41
43:BK:91:ARG:HA	52:BT:34:LYS:HB2	2.02	0.41
52:BT:96:GLN:HE22	52:BT:97:SER:CA	2.33	0.41
54:BV:55:LYS:O	54:BV:55:LYS:HG2	2.20	0.41
35:BB:29:A:C6	35:BB:42:G:C2	3.09	0.41
23:AX:3:ARG:CB	23:AX:60:GLU:HG2	2.50	0.41
36:B1:36:A:C8	36:B1:36:A:O5'	2.66	0.41
9:AJ:3:ILE:HG22	9:AJ:4:ASP:N	2.36	0.41
45:BM:89:ASP:O	45:BM:90:LEU:HG	2.21	0.41
53:BU:34:TYR:CE1	53:BU:35:ARG:NE	2.88	0.41
1:AB:14:U:O2'	1:AB:107:U:C1'	2.69	0.41
25:A1:111:ASP:C	25:A1:115:ASN:HD22	2.18	0.41
25:A1:48:ARG:C	25:A1:52:ASN:ND2	2.74	0.41
25:A1:53:LYS:H	25:A1:53:LYS:HG3	1.70	0.41
26:A2:19:VAL:CG1	26:A2:21:ARG:NH1	2.83	0.41
27:A3:29:GLU:O	27:A3:31:VAL:N	2.52	0.41
27:A3:35:ASN:CA	27:A3:68:VAL:CG2	2.93	0.41
29:A5:45:ILE:N	29:A5:52:TYR:CE1	2.87	0.41
31:A7:14:LYS:O	31:A7:16:HIS:O	2.39	0.41
31:A7:25:LYS:HZ1	31:A7:28:ARG:NH2	2.15	0.41
32:A8:4:MET:HB2	32:A8:5:LYS:H	1.73	0.41
2:AA:250:G:OP2	32:A8:8:LYS:HB3	2.21	0.41
2:AA:1021:A:C6	2:AA:1023:U:N1	2.89	0.41
2:AA:1084:A:C8	9:AI:37:VAL:CB	2.93	0.41
2:AA:1084:A:N9	9:AI:25:LEU:CB	2.83	0.41
2:AA:1097:U:C6	2:AA:1098:A:C8	3.09	0.41
2:AA:1087:G:C2'	2:AA:1103:A:C2	3.03	0.41
2:AA:1120:G:C4	2:AA:1121:C:C5	3.09	0.41
2:AA:1222:C:C4	2:AA:1227:A:N6	2.78	0.41
2:AA:1263:U:C5'	2:AA:1264:G:OP2	2.69	0.41
2:AA:1370:C:H2'	2:AA:1371:G:C5'	2.51	0.41
2:AA:1398:C:C2'	2:AA:1399:C:O5'	2.69	0.41
2:AA:1465:G:C4	2:AA:1466:G:N7	2.89	0.41
2:AA:1517:G:H2'	2:AA:1518:C:C5'	2.51	0.41
2:AA:1572:A:N6	2:AA:1573:G:H21	2.18	0.41
2:AA:155:C:O2	2:AA:162:U:OP1	2.38	0.41
2:AA:1800:C:N3	2:AA:1817:G:C2	2.88	0.41
2:AA:1831:G:H2'	2:AA:1832:C:H6	1.81	0.41
2:AA:188:G:C2'	2:AA:189:G:C5'	2.97	0.41
2:AA:1908:C:C2'	2:AA:1909:C:O5'	2.67	0.41
2:AA:1910:G:O6	2:AA:1911:U:C4	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1924:C:O2	2:AA:1925:C:C6	2.74	0.41
2:AA:1964:G:C2	2:AA:1967:C:C6	3.08	0.41
2:AA:1988:C:H2'	2:AA:1988:C:O2	2.21	0.41
2:AA:1995:U:C4'	2:AA:1995:U:C6	3.03	0.41
2:AA:1996:C:C3'	2:AA:1996:C:C6	3.03	0.41
2:AA:2151:G:N1	2:AA:2152:G:C4	2.88	0.41
2:AA:2199:A:C8	2:AA:2199:A:OP2	2.74	0.41
2:AA:2415:G:N1	2:AA:2416:C:C5	2.89	0.41
2:AA:2417:C:H2'	2:AA:2418:A:O4'	2.20	0.41
2:AA:241:A:H1'	2:AA:243:U:N1	2.35	0.41
2:AA:2562:U:O2'	13:AN:23:LYS:CD	2.69	0.41
2:AA:2579:C:N3	2:AA:2580:U:C6	2.89	0.41
2:AA:259:G:N3	2:AA:621:A:H1'	2.36	0.41
2:AA:14:A:H2	2:AA:2625:G:HO2'	1.61	0.41
2:AA:2654:A:O5'	2:AA:2654:A:C8	2.73	0.41
2:AA:2705:A:H2'	2:AA:2706:G:O5'	2.21	0.41
2:AA:2712:U:O4'	2:AA:2712:U:O2	2.39	0.41
2:AA:2724:C:O2	2:AA:2724:C:H2'	2.20	0.41
2:AA:2816:C:C4	2:AA:2817:G:N7	2.89	0.41
2:AA:2856:C:C2'	2:AA:2857:G:O5'	2.69	0.41
2:AA:2886:G:C2	2:AA:2887:U:C6	3.07	0.41
2:AA:298:G:C6	2:AA:338:G:H4'	2.56	0.41
2:AA:352:G:P	2:AA:352:G:C8	3.14	0.41
2:AA:372:G:C3'	2:AA:372:G:C8	3.03	0.41
2:AA:419:C:N3	2:AA:420:C:C5	2.88	0.41
2:AA:493:G:C2	2:AA:494:G:C8	3.09	0.41
2:AA:514:A:C4	2:AA:515:A:C8	3.08	0.41
2:AA:575:A:H2'	2:AA:576:U:C6	2.55	0.41
2:AA:657:U:C2	2:AA:658:C:C5	3.09	0.41
2:AA:668:G:C4	2:AA:670:A:C8	3.08	0.41
2:AA:695:G:C4	2:AA:768:G:N1	2.88	0.41
2:AA:7:G:N3	2:AA:8:A:C8	2.89	0.41
2:AA:809:G:C2'	2:AA:810:U:H5'	2.50	0.41
2:AA:814:C:C2	2:AA:815:C:C5	3.09	0.41
2:AA:817:C:H2'	2:AA:818:G:C8	2.55	0.41
2:AA:824:A:C5	2:AA:825:C:N4	2.89	0.41
2:AA:827:U:C5	2:AA:2430:A:C5	3.09	0.41
2:AA:864:G:H22	2:AA:909:A:N6	2.18	0.41
2:AA:924:C:H2'	2:AA:925:C:C6	2.56	0.41
2:AA:663:G:N2	2:AA:940:G:P	2.81	0.41
2:AA:993:G:C4'	26:A2:90:PHE:CE2	3.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:105:G:O2'	1:AB:106:G:H5'	2.20	0.41
1:AB:44:G:N2	1:AB:48:A:C1'	2.75	0.41
1:AB:59:A:C5	1:AB:60:C:C6	3.09	0.41
1:AB:78:A:C2'	1:AB:79:C:C5'	2.98	0.41
3:AC:103:ILE:CG2	3:AC:130:ILE:HG21	2.50	0.41
3:AC:89:ALA:CB	3:AC:150:GLY:CA	2.98	0.41
2:AA:1791:A:OP1	4:AD:210:LYS:HD3	2.20	0.41
5:AE:201:VAL:HG13	5:AE:310:PHE:C	2.32	0.41
2:AA:2512:C:C5'	5:AE:219:VAL:CG1	2.98	0.41
5:AE:219:VAL:HG21	5:AE:235:ILE:HD11	2.02	0.41
7:AG:24:HIS:HB3	7:AG:71:ALA:O	2.20	0.41
2:AA:2310:A:C4	7:AG:55:LYS:HD3	2.56	0.41
9:AI:49:ALA:O	9:AI:50:GLY:C	2.58	0.41
11:AL:24:VAL:O	11:AL:35:ILE:HG23	2.21	0.41
11:AL:45:GLU:O	11:AL:46:THR:C	2.58	0.41
12:AM:106:GLY:O	12:AM:107:ASN:OD1	2.39	0.41
13:AN:53:LYS:O	13:AN:56:GLN:CG	2.68	0.41
13:AN:86:ILE:CA	13:AN:87:ILE:HD12	2.50	0.41
15:AP:64:ALA:CB	15:AP:142:LYS:HE2	2.31	0.41
15:AP:63:ALA:O	15:AP:66:ASN:N	2.53	0.41
16:AQ:114:LYS:O	16:AQ:117:ALA:CB	2.59	0.41
16:AQ:120:GLU:H	16:AQ:120:GLU:CD	2.24	0.41
16:AQ:41:LYS:HD2	16:AQ:42:HIS:HD2	1.81	0.41
19:AT:17:ASP:CA	19:AT:20:PHE:CE1	3.04	0.41
2:AA:99:U:C4	20:AU:107:LYS:HD2	2.56	0.41
20:AU:87:VAL:HG13	20:AU:88:PRO:CG	2.51	0.41
21:AV:67:LYS:CA	21:AV:67:LYS:HZ2	2.28	0.41
21:AV:71:MET:C	21:AV:78:PRO:CA	2.89	0.41
36:B1:60:A:N3	36:B1:61:U:C6	2.89	0.41
34:BA:1010:G:C2	34:BA:1011:G:C8	3.08	0.41
34:BA:1090:U:C2'	34:BA:1091:U:O5'	2.68	0.41
34:BA:1133:G:O2'	34:BA:1134:G:H5'	2.20	0.41
34:BA:1137:C:C4'	34:BA:1138:G:C2	2.97	0.41
34:BA:51:A:N6	34:BA:116:A:C4	2.88	0.41
34:BA:1244:C:O2'	34:BA:1245:A:H5'	2.20	0.41
34:BA:1250:A:H5'	44:BL:67:GLY:O	2.20	0.41
34:BA:1353:G:H5'	56:BX:13:ILE:CG2	2.50	0.41
34:BA:1370:G:N2	34:BA:1371:G:C5	2.88	0.41
34:BA:1437:C:OP2	34:BA:1437:C:C6	2.74	0.41
34:BA:1541:U:H2'	34:BA:1542:U:O3'	2.21	0.41
34:BA:175:C:C2	34:BA:176:C:C5	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:188:C:C2'	34:BA:189:G:C5'	2.96	0.41
34:BA:413:G:H22	34:BA:428:G:C1'	2.33	0.41
34:BA:43:C:O2	34:BA:44:G:C8	2.73	0.41
34:BA:507:C:P	34:BA:508:C:H3'	2.61	0.41
34:BA:51:A:N6	34:BA:116:A:C5	2.89	0.41
34:BA:689:C:O2	34:BA:689:C:C2'	2.64	0.41
34:BA:774:G:C5	34:BA:775:G:N7	2.88	0.41
34:BA:853:G:C2	34:BA:854:G:C8	3.09	0.41
34:BA:890:G:C6	34:BA:906:G:N7	2.88	0.41
34:BA:891:U:C5	34:BA:892:A:N7	2.88	0.41
34:BA:927:G:O6	34:BA:1391:U:O4	2.39	0.41
34:BA:958:A:C6	34:BA:959:A:C6	3.09	0.41
34:BA:991:U:HO2'	34:BA:993:G:H1'	1.80	0.41
34:BA:999:C:C2	34:BA:1042:G:N1	2.80	0.41
34:BA:1340:A:H4'	35:BC:31:A:O2'	2.20	0.41
37:BE:16:HIS:NE2	37:BE:213:LEU:HB3	2.34	0.41
37:BE:74:LYS:O	37:BE:76:GLN:N	2.53	0.41
37:BE:80:ILE:HD13	37:BE:211:ILE:HG22	2.03	0.41
38:BF:53:ALA:CB	38:BF:115:LEU:HD21	2.41	0.41
38:BF:24:ALA:CB	38:BF:28:GLN:HE22	2.33	0.41
38:BF:50:ALA:C	38:BF:70:VAL:HG11	2.41	0.41
39:BG:149:ALA:O	39:BG:150:GLU:C	2.59	0.41
39:BG:58:LEU:HD21	39:BG:62:GLN:CG	2.47	0.41
40:BH:109:ILE:HG22	40:BH:110:LEU:HG	2.02	0.41
40:BH:15:ARG:NE	40:BH:26:PHE:CE2	2.88	0.41
41:BI:33:TYR:CE2	41:BI:75:LEU:CA	3.03	0.41
41:BI:87:ARG:NH1	41:BI:87:ARG:CG	2.84	0.41
42:BJ:111:ARG:CD	42:BJ:123:GLU:HB2	2.44	0.41
42:BJ:23:VAL:O	42:BJ:24:THR:C	2.59	0.41
42:BJ:45:ASP:O	42:BJ:49:ILE:CD1	2.69	0.41
43:BK:110:ALA:O	43:BK:120:THR:HA	2.21	0.41
44:BL:37:PHE:CZ	44:BL:74:ILE:HG23	2.55	0.41
46:BN:59:TYR:O	46:BN:60:ALA:C	2.56	0.41
34:BA:529:G:O6	47:BO:49:ASN:HA	2.19	0.41
47:BO:82:VAL:CG1	47:BO:83:VAL:H	2.24	0.41
48:BP:36:LYS:HE2	48:BP:59:TYR:HE1	1.86	0.41
48:BP:2:ALA:N	48:BP:4:ILE:HG13	2.35	0.41
48:BP:6:GLY:O	48:BP:7:VAL:C	2.59	0.41
49:BQ:6:LEU:CD2	49:BQ:8:GLU:OE2	2.67	0.41
52:BT:76:LEU:HD23	52:BT:76:LEU:C	2.41	0.41
54:BV:38:SER:O	54:BV:70:LYS:CB	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BV:43:GLU:O	54:BV:47:HIS:NE2	2.53	0.41
55:BW:50:GLU:HG2	55:BW:100:ILE:HD11	2.02	0.41
55:BW:24:LEU:O	55:BW:27:LYS:HB3	2.20	0.41
35:BB:38:A:H3'	35:BB:39:U:C6	2.56	0.41
10:AK:110:LEU:CD1	10:AK:114:LYS:HZ1	2.33	0.41
10:AK:93:ILE:O	10:AK:120:ALA:HA	2.20	0.41
10:AK:82:LYS:O	10:AK:89:LEU:HB3	2.21	0.41
2:AA:1050:A:H2'	2:AA:1051:G:C5'	2.49	0.41
2:AA:1116:C:H2'	2:AA:1117:G:C8	2.56	0.41
7:AG:59:GLY:C	7:AG:60:GLU:HG3	2.41	0.41
38:BF:86:VAL:O	38:BF:86:VAL:HG12	2.20	0.41
24:A0:26:LYS:HE2	24:A0:70:LEU:HA	2.02	0.41
24:A0:25:ALA:CA	24:A0:48:VAL:HG22	2.50	0.41
25:A1:15:LYS:O	25:A1:15:LYS:HG2	2.20	0.41
25:A1:22:LYS:H	25:A1:24:PHE:HE2	1.68	0.41
2:AA:396:G:O2'	28:A4:39:VAL:HG13	2.19	0.41
28:A4:5:LEU:CD2	28:A4:5:LEU:N	2.67	0.41
2:AA:372:G:O2'	28:A4:63:PHE:CE2	2.71	0.41
28:A4:7:PRO:O	28:A4:8:LYS:HB2	2.21	0.41
18:AS:23:LEU:CD1	29:A5:26:THR:N	2.84	0.41
30:A6:28:ARG:CG	30:A6:30:ASN:CB	2.98	0.41
2:AA:2421:G:OP1	30:A6:2:ALA:O	2.39	0.41
2:AA:1006:C:H4'	12:AM:28:GLU:OE2	2.21	0.41
2:AA:1066:U:C2	2:AA:1069:A:P	3.13	0.41
2:AA:1078:U:H3	2:AA:1088:A:HO2'	1.62	0.41
2:AA:1097:U:O2	2:AA:1098:A:O4'	2.38	0.41
2:AA:1099:G:C4	2:AA:1100:C:C5	3.09	0.41
2:AA:1102:C:C2	2:AA:1103:A:N7	2.88	0.41
2:AA:1143:A:N3	2:AA:1144:G:N9	2.69	0.41
2:AA:1168:G:N1	2:AA:1182:A:C6	2.88	0.41
2:AA:1203:G:N7	2:AA:1207:C:C2	2.89	0.41
2:AA:1224:G:C2'	2:AA:1225:C:H5'	2.50	0.41
2:AA:1287:A:C2	2:AA:1648:C:O2'	2.67	0.41
2:AA:128:C:O2'	2:AA:129:C:O5'	2.32	0.41
2:AA:1311:G:H3'	2:AA:1311:G:C8	2.55	0.41
2:AA:1315:C:O2'	2:AA:1392:A:C1'	2.68	0.41
2:AA:1334:G:O2'	2:AA:1335:U:O5'	2.38	0.41
2:AA:1356:G:N2	2:AA:1357:U:H1'	2.35	0.41
2:AA:1467:C:C4'	2:AA:1467:C:OP1	2.69	0.41
2:AA:1529:A:C3'	2:AA:1530:G:O4'	2.68	0.41
2:AA:1658:C:O5'	2:AA:1659:U:OP2	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1707:G:C2	2:AA:1756:G:N2	2.89	0.41
2:AA:1762:A:C5'	2:AA:1763:G:OP2	2.69	0.41
2:AA:1789:A:C6	2:AA:1790:C:C5	3.08	0.41
2:AA:1803:A:C8	2:AA:1803:A:C3'	3.03	0.41
2:AA:1841:U:C4	2:AA:1842:G:O6	2.73	0.41
2:AA:1845:G:C2'	2:AA:1846:G:C5'	2.99	0.41
2:AA:1846:G:C2	2:AA:1895:C:N3	2.88	0.41
2:AA:1845:G:H1'	2:AA:1896:G:N2	2.36	0.41
2:AA:1904:G:N2	2:AA:1905:C:H1'	2.35	0.41
2:AA:1905:C:C4	2:AA:1930:G:C2	3.08	0.41
2:AA:1930:G:H2'	2:AA:1968:G:C6	2.56	0.41
2:AA:199:A:N1	2:AA:2433:A:C8	2.89	0.41
2:AA:2032:G:C6	2:AA:2572:A:N3	2.88	0.41
2:AA:2062:A:C2'	2:AA:2063:C:OP1	2.69	0.41
2:AA:2106:G:C6	2:AA:2184:G:O6	2.73	0.41
2:AA:2105:C:C2	2:AA:2106:G:C8	3.09	0.41
2:AA:2177:C:C2	2:AA:2178:C:C5	3.09	0.41
2:AA:2195:C:N3	2:AA:2196:C:C6	2.88	0.41
2:AA:2245:U:H1'	2:AA:2435:A:H3'	2.03	0.41
2:AA:2262:U:H2'	2:AA:2263:C:C5'	2.51	0.41
2:AA:2280:G:O6	2:AA:2281:C:N4	2.54	0.41
2:AA:2327:A:C6	2:AA:2388:A:C2	3.09	0.41
2:AA:2371:G:C2	2:AA:2372:G:C4	3.08	0.41
2:AA:2068:U:C2	2:AA:2430:A:N1	2.87	0.41
2:AA:2484:G:H2'	2:AA:2484:G:N3	2.35	0.41
2:AA:2516:G:C6	2:AA:2517:C:N4	2.88	0.41
2:AA:2541:A:C2	2:AA:2765:A:N6	2.58	0.41
2:AA:239:U:C2	2:AA:259:G:N1	2.89	0.41
2:AA:2717:G:C2'	2:AA:2718:G:O5'	2.69	0.41
2:AA:2758:A:OP2	2:AA:2758:A:C3'	2.69	0.41
2:AA:2767:C:O2'	2:AA:2768:C:H5'	2.21	0.41
2:AA:2795:G:O2'	2:AA:2797:U:O5'	2.38	0.41
2:AA:2791:C:C4	2:AA:2805:G:O6	2.73	0.41
2:AA:2837:G:C6	2:AA:2882:A:C6	3.08	0.41
2:AA:2839:G:C5	2:AA:2840:C:C4	3.08	0.41
2:AA:2837:G:N1	2:AA:2882:A:C6	2.88	0.41
2:AA:2810:A:N6	2:AA:2891:G:N3	2.68	0.41
2:AA:294:A:H2'	2:AA:295:G:H5''	1.98	0.41
2:AA:323:G:N1	2:AA:333:G:C4	2.89	0.41
2:AA:352:G:C6	2:AA:353:G:N7	2.88	0.41
2:AA:393:C:C2'	2:AA:394:A:H5'	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:398:G:OP2	28:A4:59:PHE:CE2	2.74	0.41
2:AA:410:G:H1	2:AA:417:C:N4	2.19	0.41
2:AA:417:C:O2	2:AA:2407:G:C2	2.74	0.41
2:AA:443:A:H2	2:AA:1245:G:N2	2.19	0.41
2:AA:493:G:C2	2:AA:494:G:C5	3.08	0.41
2:AA:530:G:O6	2:AA:2021:C:C3'	2.64	0.41
2:AA:531:C:C2'	2:AA:532:A:OP1	2.69	0.41
2:AA:543:C:HO2'	2:AA:544:C:P	2.44	0.41
2:AA:583:G:C5	2:AA:584:C:C5	3.09	0.41
2:AA:592:G:O2'	32:A8:3:LYS:CG	2.69	0.41
2:AA:629:G:C6	2:AA:630:G:C6	3.08	0.41
2:AA:666:G:O2'	2:AA:667:U:C5'	2.68	0.41
2:AA:68:G:N2	2:AA:74:A:O4'	2.54	0.41
2:AA:713:G:C6	2:AA:714:U:C4	3.08	0.41
2:AA:71:A:OP2	2:AA:113:G:H4'	2.20	0.41
2:AA:72:U:C4	2:AA:112:U:O4'	2.73	0.41
2:AA:762:U:H5''	2:AA:763:G:P	2.61	0.41
2:AA:769:G:N1	2:AA:770:G:N7	2.68	0.41
2:AA:7:G:OP1	12:AM:6:PHE:CE2	2.74	0.41
2:AA:808:G:O2'	2:AA:809:G:H5'	2.20	0.41
2:AA:88:G:C2	2:AA:89:G:C8	3.08	0.41
2:AA:908:C:H2'	2:AA:909:A:H5'	2.02	0.41
1:AB:113:C:O2'	16:AQ:56:ASP:OD2	2.38	0.41
1:AB:54:G:C4	1:AB:55:U:C6	3.08	0.41
1:AB:61:G:H2'	1:AB:62:C:H6	1.82	0.41
1:AB:6:C:C2	1:AB:115:G:C2	3.09	0.41
3:AC:133:PRO:HA	3:AC:172:HIS:CE1	2.53	0.41
3:AC:148:ASN:CG	3:AC:148:ASN:O	2.57	0.41
3:AC:19:ILE:HG21	3:AC:225:ASN:HB2	2.02	0.41
3:AC:27:HIS:C	3:AC:31:GLU:OE2	2.59	0.41
4:AD:227:VAL:HG13	4:AD:227:VAL:O	2.17	0.41
5:AE:172:ASP:O	5:AE:175:ASP:N	2.53	0.41
5:AE:200:ASP:O	5:AE:311:PHE:CA	2.61	0.41
5:AE:304:ASP:OD1	5:AE:307:LEU:HD11	2.19	0.41
6:AF:202:THR:O	6:AF:203:ALA:C	2.57	0.41
6:AF:219:ASN:ND2	6:AF:222:ASP:OD1	2.54	0.41
6:AF:225:PRO:CG	6:AF:231:ARG:NH2	2.84	0.41
7:AG:134:LEU:C	7:AG:135:VAL:HG23	2.40	0.41
9:AI:80:ILE:HD11	9:AI:117:LYS:HD2	2.02	0.41
11:AL:120:SER:O	11:AL:121:LEU:C	2.59	0.41
11:AL:14:PRO:CG	11:AL:17:LYS:HD2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:25:GLY:O	11:AL:35:ILE:HD11	2.21	0.41
13:AN:109:LYS:O	13:AN:110:ASP:CB	2.68	0.41
13:AN:34:ASN:CA	13:AN:35:ILE:HD12	2.51	0.41
14:AO:64:ILE:HG22	14:AO:108:VAL:CG2	2.44	0.41
14:AO:71:GLU:CG	14:AO:72:ASN:N	2.76	0.41
15:AP:67:ALA:HA	15:AP:70:ARG:HH11	1.86	0.41
2:AA:2319:G:H4'	16:AQ:9:PRO:N	2.36	0.41
18:AS:82:LEU:CG	18:AS:98:LYS:HB2	2.50	0.41
19:AT:11:THR:N	19:AT:14:ALA:CB	2.60	0.41
19:AT:19:ASP:OD1	19:AT:20:PHE:CD2	2.74	0.41
20:AU:48:VAL:CG1	20:AU:49:GLU:H	2.33	0.41
21:AV:155:PRO:O	21:AV:156:GLU:C	2.59	0.41
21:AV:40:ASP:C	21:AV:44:ARG:CG	2.85	0.41
22:AW:15:GLU:O	22:AW:18:ALA:N	2.54	0.41
22:AW:22:ASP:O	22:AW:25:THR:N	2.53	0.41
2:AA:76:C:H4'	22:AW:55:ARG:HE	1.85	0.41
34:BA:1038:C:HO2'	34:BA:1039:C:C5'	2.34	0.41
34:BA:1057:G:C4	34:BA:1204:A:C2	3.09	0.41
34:BA:1240:U:OP1	42:BJ:119:ARG:NH2	2.50	0.41
34:BA:1271:G:H2'	34:BA:1272:G:O5'	2.20	0.41
34:BA:1464:G:N3	34:BA:1465:C:C5	2.89	0.41
34:BA:1419:G:C6	34:BA:1482:G:C2	3.09	0.41
34:BA:149:A:N1	34:BA:172:A:N6	2.68	0.41
34:BA:1528:U:H2'	34:BA:1530:G:C5'	2.50	0.41
34:BA:198:G:C6	34:BA:220:G:N3	2.89	0.41
34:BA:224:C:C2	34:BA:225:C:C5	3.09	0.41
34:BA:225:C:C2'	34:BA:225:C:O2	2.67	0.41
34:BA:258:G:C5	34:BA:259:G:N7	2.89	0.41
34:BA:310:G:C5	34:BA:311:C:C4	3.09	0.41
34:BA:361:G:C6	34:BA:362:G:C2	3.09	0.41
34:BA:406:G:C2	34:BA:407:G:C5	3.08	0.41
34:BA:218:C:H5'	34:BA:461:C:H41	1.86	0.41
34:BA:486:U:C2	34:BA:487:A:C8	3.09	0.41
34:BA:445:G:N2	34:BA:489:C:N3	2.54	0.41
34:BA:529:G:H8	34:BA:529:G:H3'	1.85	0.41
34:BA:572:A:O5'	34:BA:573:A:P	2.79	0.41
34:BA:574:A:H5''	34:BA:575:G:OP2	2.20	0.41
34:BA:655:A:C2	34:BA:754:C:N4	2.88	0.41
34:BA:678:U:O4	34:BA:712:A:N1	2.54	0.41
34:BA:665:A:C2	34:BA:732:C:C2	3.08	0.41
34:BA:764:C:H3'	34:BA:765:G:C8	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:715:A:H5'	34:BA:777:A:N6	2.36	0.41
34:BA:968:A:H5''	34:BA:969:A:P	2.55	0.41
35:BB:51:G:C6	35:BB:52:U:C4	3.08	0.41
37:BE:25:ASN:HB2	37:BE:191:ASP:O	2.20	0.41
38:BF:184:TYR:CD1	38:BF:185:GLY:N	2.88	0.41
41:BI:80:ARG:CZ	41:BI:88:VAL:HG11	2.51	0.41
41:BI:97:PHE:HD2	53:BU:31:LEU:HB2	1.85	0.41
42:BJ:110:GLN:O	42:BJ:111:ARG:C	2.58	0.41
43:BK:103:VAL:CG2	43:BK:108:GLY:C	2.89	0.41
34:BA:826:C:C5'	43:BK:12:ARG:HG2	2.51	0.41
43:BK:23:SER:HA	43:BK:62:TYR:CD1	2.55	0.41
43:BK:87:SER:OG	43:BK:93:VAL:HG23	2.21	0.41
45:BM:24:VAL:O	45:BM:28:ARG:HG3	2.21	0.41
45:BM:54:PHE:CE1	45:BM:55:LYS:CG	3.03	0.41
45:BM:86:MET:HG3	45:BM:86:MET:O	2.19	0.41
46:BN:103:LEU:O	46:BN:104:GLN:C	2.57	0.41
34:BA:704:A:N6	46:BN:42:TRP:HZ2	2.19	0.41
47:BO:118:SER:O	47:BO:121:GLY:HA2	2.20	0.41
47:BO:68:ALA:CB	47:BO:98:TYR:O	2.69	0.41
48:BP:23:TYR:CE2	48:BP:70:LEU:CD2	3.03	0.41
51:BS:14:ASN:HA	51:BS:42:ARG:CZ	2.49	0.41
52:BT:11:VAL:O	52:BT:12:SER:CB	2.63	0.41
47:BO:7:ILE:CG2	52:BT:34:LYS:HE2	2.51	0.41
53:BU:66:LEU:CD1	53:BU:67:ALA:H	2.26	0.41
54:BV:36:ARG:HB2	54:BV:72:GLY:H	1.85	0.41
55:BW:50:GLU:HG3	55:BW:100:ILE:HG12	2.02	0.41
10:AK:78:THR:OG1	10:AK:78:THR:O	2.24	0.41
3:AC:177:LYS:C	3:AC:179:SER:N	2.73	0.41
37:BE:28:PHE:HD1	37:BE:31:TYR:HB2	1.85	0.41
1:AB:1:U:H6	1:AB:1:U:H3'	1.83	0.41
33:A9:12:ASP:C	33:A9:13:ASN:OD1	2.58	0.41
24:A0:109:ALA:HA	24:A0:110:PRO:HD2	1.49	0.41
24:A0:14:SER:OG	24:A0:15:SER:N	2.48	0.41
25:A1:64:ARG:NH1	25:A1:97:ASP:OD1	2.54	0.41
26:A2:11:GLN:NE2	26:A2:22:VAL:CG2	2.84	0.41
26:A2:1:MET:C	26:A2:2:PHE:CD1	2.91	0.41
26:A2:59:GLU:OE1	26:A2:99:GLN:CA	2.65	0.41
26:A2:65:ARG:O	26:A2:93:ILE:CA	2.67	0.41
26:A2:65:ARG:O	26:A2:93:ILE:HG23	2.20	0.41
2:AA:974:G:C5	26:A2:80:TYR:CZ	3.09	0.41
27:A3:39:ARG:HH11	27:A3:39:ARG:CG	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:A3:45:PHE:HD2	27:A3:80:SER:HA	1.86	0.41
27:A3:74:LYS:C	27:A3:75:GLY:O	2.59	0.41
28:A4:4:ASP:OD1	28:A4:11:PRO:CD	2.69	0.41
29:A5:21:SER:C	29:A5:23:HIS:N	2.73	0.41
32:A8:16:ILE:HG23	32:A8:21:LYS:O	2.20	0.41
2:AA:1027:A:H2'	2:AA:1028:A:C8	2.56	0.41
2:AA:1055:G:C4	9:AI:28:LYS:NZ	2.74	0.41
2:AA:1069:A:N7	2:AA:1073:A:C5	2.89	0.41
2:AA:1143:A:C2	2:AA:1144:G:N9	2.89	0.41
2:AA:119:A:O2'	2:AA:120:U:O5'	2.38	0.41
2:AA:1254:A:C3'	2:AA:1254:A:C8	3.03	0.41
2:AA:126:A:N7	2:AA:127:A:N3	2.67	0.41
2:AA:1276:A:N1	2:AA:1294:U:O4	2.54	0.41
2:AA:1389:G:N2	2:AA:1390:U:H1'	2.35	0.41
2:AA:1491:G:H8	2:AA:1491:G:O5'	2.03	0.41
2:AA:1493:C:C2'	2:AA:1493:C:O2	2.69	0.41
2:AA:1624:G:C4	2:AA:1625:C:N4	2.89	0.41
2:AA:163:U:C6	2:AA:164:U:C4	3.08	0.41
2:AA:1655:A:C5	2:AA:1656:C:C2	3.08	0.41
2:AA:1658:C:P	5:AE:230:GLY:O	2.79	0.41
2:AA:1706:U:O2	2:AA:1706:U:C2'	2.69	0.41
2:AA:1806:C:C2'	2:AA:1807:G:H5'	2.44	0.41
2:AA:1809:A:H4'	2:AA:1809:A:OP1	2.20	0.41
2:AA:1811:G:O2'	2:AA:1812:A:C5'	2.69	0.41
2:AA:181:A:C6	2:AA:182:A:N6	2.88	0.41
2:AA:1835:G:C2	2:AA:1836:C:C6	3.09	0.41
2:AA:1906:G:C6	2:AA:1907:G:O6	2.74	0.41
2:AA:1923:U:OP1	35:BC:25:C:O4'	2.39	0.41
2:AA:1935:G:C2'	2:AA:1936:A:OP2	2.69	0.41
2:AA:1944:U:C1'	2:AA:1955:U:H6	2.33	0.41
2:AA:1945:G:C2	2:AA:1946:U:C4	3.08	0.41
2:AA:2042:A:C2'	2:AA:2043:C:OP2	2.68	0.41
2:AA:2092:U:O2	2:AA:2092:U:C2'	2.67	0.41
2:AA:2192:G:N1	2:AA:2193:G:C5	2.89	0.41
2:AA:222:A:N1	2:AA:224:G:N3	2.68	0.41
2:AA:2233:U:H2'	2:AA:2234:G:O4'	2.20	0.41
2:AA:2263:C:O5'	2:AA:2263:C:H6	2.03	0.41
2:AA:2283:C:C4	2:AA:2284:C:H1'	2.50	0.41
2:AA:2287:A:N7	2:AA:2289:G:C5	2.89	0.41
2:AA:2352:A:HO2'	2:AA:2353:G:H5'	1.83	0.41
2:AA:238:C:C2'	2:AA:238:C:O2	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2438:U:O3'	2:AA:2440:C:OP1	2.38	0.41
2:AA:2528:U:C1'	2:AA:2536:G:N2	2.83	0.41
2:AA:2615:U:H2'	2:AA:2616:C:O5'	2.21	0.41
2:AA:2799:A:O2'	2:AA:2802:G:N3	2.49	0.41
2:AA:2815:C:H5'	29:A5:29:ASN:HD22	1.77	0.41
2:AA:2816:C:N3	2:AA:2817:G:N7	2.69	0.41
2:AA:2832:U:H2'	2:AA:2832:U:O2	2.20	0.41
2:AA:2853:C:H2'	2:AA:2854:G:C5'	2.51	0.41
2:AA:2875:C:C4	2:AA:2876:G:C5	3.08	0.41
2:AA:270:A:N6	2:AA:424:G:C8	2.88	0.41
2:AA:458:G:H3'	31:A7:38:GLY:O	2.21	0.41
2:AA:461:C:C2'	2:AA:461:C:O2	2.65	0.41
2:AA:463:G:C2	2:AA:467:G:C4	3.09	0.41
2:AA:467:G:O3'	2:AA:797:C:H5'	2.21	0.41
2:AA:49:A:C5'	2:AA:50:U:OP1	2.68	0.41
2:AA:26:G:N2	2:AA:513:A:C5	2.89	0.41
2:AA:534:U:H2'	2:AA:535:C:C6	2.55	0.41
2:AA:59:U:N1	2:AA:73:A:C6	2.89	0.41
2:AA:622:G:N1	2:AA:623:G:C2	2.89	0.41
2:AA:604:G:N2	2:AA:624:C:N3	2.69	0.41
2:AA:628:G:OP2	2:AA:628:G:H8	2.03	0.41
2:AA:650:C:O2	2:AA:650:C:C2'	2.68	0.41
2:AA:684:G:C8	2:AA:684:G:C3'	3.04	0.41
2:AA:686:G:H8	31:A7:8:ASN:ND2	2.18	0.41
2:AA:709:U:H6	2:AA:709:U:O5'	2.04	0.41
2:AA:956:G:C2	2:AA:962:G:O6	2.73	0.41
1:AB:43:C:H3'	1:AB:44:G:H5'	2.02	0.41
1:AB:46:A:C2'	1:AB:47:C:O5'	2.69	0.41
3:AC:163:PHE:CD2	3:AC:192:PHE:CE1	3.08	0.41
3:AC:132:GLY:O	3:AC:172:HIS:HE1	2.03	0.41
4:AD:92:LEU:CD1	4:AD:102:TYR:CD2	3.03	0.41
2:AA:1819:A:C8	4:AD:177:SER:CB	3.04	0.41
6:AF:198:ASP:O	6:AF:199:GLU:HB2	2.20	0.41
7:AG:14:ARG:CA	7:AG:137:PRO:HG3	2.50	0.41
7:AG:56:ARG:HD2	7:AG:65:GLU:HG3	2.02	0.41
8:AH:142:GLU:O	8:AH:143:LEU:C	2.59	0.41
8:AH:151:ARG:HA	8:AH:152:PRO:HD2	1.83	0.41
2:AA:1084:A:C5'	9:AI:35:ALA:O	2.62	0.41
9:AI:92:VAL:O	9:AI:95:ALA:CB	2.69	0.41
9:AJ:102:ILE:HD13	9:AJ:118:LEU:HD13	2.02	0.41
9:AJ:61:VAL:HG22	9:AJ:115:LYS:CE	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:133:LYS:O	11:AL:134:SER:C	2.58	0.41
12:AM:12:VAL:HG12	12:AM:13:ASP:H	1.83	0.41
13:AN:3:GLN:HG2	13:AN:4:GLN:HB2	2.03	0.41
14:AO:60:GLU:O	14:AO:61:ALA:CB	2.67	0.41
14:AO:65:ASP:HB3	14:AO:109:LEU:H	1.85	0.41
14:AO:94:ARG:NH2	14:AO:118:LEU:CB	2.78	0.41
15:AP:11:LYS:HD2	15:AP:91:HIS:HD2	1.73	0.41
16:AQ:35:VAL:HG22	16:AQ:103:ASP:CB	2.51	0.41
18:AS:35:ILE:O	18:AS:39:THR:CB	2.69	0.41
18:AS:52:GLU:OE2	18:AS:52:GLU:HA	2.21	0.41
20:AU:66:ASP:OD2	20:AU:73:HIS:N	2.54	0.41
21:AV:123:VAL:HB	21:AV:159:THR:HG23	2.03	0.41
1:AB:75:G:H1'	21:AV:22:VAL:HG22	2.03	0.41
21:AV:39:PHE:HA	21:AV:43:PHE:CD2	2.55	0.41
21:AV:81:VAL:CG1	21:AV:82:ASP:H	2.31	0.41
23:AX:23:LEU:O	23:AX:24:LYS:C	2.58	0.41
36:B1:11:U:C2	36:B1:45:A:N1	2.89	0.41
34:BA:1015:A:C2'	34:BA:1016:A:O5'	2.69	0.41
34:BA:1030:C:N4	34:BA:30(A):G:O6	2.53	0.41
34:BA:1069:C:C5	34:BA:1094:G:O6	2.74	0.41
34:BA:1092:A:N3	34:BA:1183:A:C2	2.88	0.41
34:BA:1167:A:OP1	34:BA:1167:A:H8	2.01	0.41
34:BA:1257:U:O2'	34:BA:1258:G:N7	2.51	0.41
34:BA:1381:U:H2'	34:BA:1382:C:C5'	2.50	0.41
34:BA:1383:C:O2'	34:BA:1384:C:H5'	2.20	0.41
34:BA:1486:G:H2'	34:BA:1487:G:O4'	2.20	0.41
34:BA:1502:A:N6	34:BA:1504:G:N2	2.69	0.41
34:BA:1509:C:N3	34:BA:1510:U:C6	2.89	0.41
34:BA:192:U:C4	34:BA:193:C:N4	2.89	0.41
34:BA:204:U:H4'	34:BA:216:G:O5'	2.18	0.41
34:BA:320:C:N4	34:BA:333:G:C6	2.86	0.41
34:BA:327:A:C2	34:BA:329:A:C4	3.08	0.41
34:BA:59:A:C5	34:BA:354:G:C6	3.08	0.41
34:BA:374:A:C6	34:BA:375:U:C4	3.09	0.41
34:BA:463:A:H4'	51:BS:80:PHE:O	2.20	0.41
34:BA:373:A:C2	34:BA:482:A:N6	2.89	0.41
34:BA:48:C:HO2'	34:BA:49:U:P	2.35	0.41
34:BA:445:G:C6	34:BA:490:G:N1	2.89	0.41
34:BA:53:A:C2	34:BA:54:C:C2	3.09	0.41
34:BA:565:U:C6	34:BA:566:G:N7	2.89	0.41
34:BA:577:G:C4	34:BA:765:G:N2	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:582:U:H5'	50:BR:64:ARG:CZ	2.47	0.41
34:BA:637:G:H2'	34:BA:638:G:O4'	2.20	0.41
34:BA:676:A:N1	34:BA:715:A:H2	2.18	0.41
34:BA:676:A:C2	34:BA:715:A:H2	2.39	0.41
34:BA:748:C:H2'	34:BA:749:C:OP2	2.20	0.41
34:BA:77:G:C2	34:BA:78:G:C4	3.09	0.41
34:BA:920:U:H2'	34:BA:921:U:H6	1.85	0.41
34:BA:947:G:C4	34:BA:948:C:C6	3.08	0.41
35:BB:19:G:H5'	35:BB:20:G:C5	2.55	0.41
37:BE:104:ASN:O	37:BE:108:ILE:HG12	2.20	0.41
37:BE:23:ARG:C	37:BE:24:TRP:HD1	2.24	0.41
37:BE:76:GLN:OE1	37:BE:76:GLN:HA	2.21	0.41
37:BE:79:ASP:HA	37:BE:82:ARG:CB	2.50	0.41
38:BF:112:SER:HB2	38:BF:115:LEU:HB2	2.02	0.41
38:BF:119:ARG:O	38:BF:121:ALA:N	2.54	0.41
38:BF:188:LEU:HD12	38:BF:190:ARG:CG	2.51	0.41
39:BG:175:SER:O	39:BG:183:GLY:CA	2.66	0.41
39:BG:32:ALA:O	39:BG:34:GLU:O	2.38	0.41
39:BG:94:LEU:CD1	39:BG:200:GLU:CD	2.88	0.41
42:BJ:150:ALA:O	42:BJ:153:HIS:ND1	2.50	0.41
42:BJ:88:PRO:HG2	42:BJ:152:ALA:HA	2.00	0.41
42:BJ:69:VAL:HG12	42:BJ:100:ALA:HB1	2.02	0.41
47:BO:124:LYS:O	47:BO:125:PRO:C	2.59	0.41
47:BO:46:LYS:O	47:BO:47:LYS:C	2.59	0.41
47:BO:75:HIS:HB2	47:BO:76:ASN:H	1.46	0.41
48:BP:96:LEU:HA	48:BP:110:ARG:HG2	2.03	0.41
34:BA:1302:U:P	48:BP:13:LYS:HZ2	2.41	0.41
48:BP:16:ASP:O	48:BP:18:ALA:N	2.53	0.41
34:BA:1308:U:C6	48:BP:99:ARG:NH1	2.89	0.41
49:BQ:54:PRO:O	49:BQ:55:GLY:C	2.59	0.41
50:BR:34:LEU:O	50:BR:38:ARG:HD3	2.20	0.41
50:BR:53:HIS:NE2	50:BR:57:LEU:HD11	2.36	0.41
50:BR:5:LYS:HE3	50:BR:5:LYS:HB3	1.84	0.41
51:BS:26:ARG:O	51:BS:27:LYS:O	2.38	0.41
52:BT:18:THR:HG23	52:BT:69:LYS:HE3	2.01	0.41
34:BA:265:G:H5'	52:BT:64:PRO:HB2	2.03	0.41
52:BT:59:ILE:HG21	52:BT:71:PHE:HD2	1.84	0.41
53:BU:21:LYS:H	53:BU:55:ARG:CZ	2.34	0.41
34:BA:1327:C:C5'	56:BX:20:LYS:HB3	2.50	0.41
10:AK:88:ARG:CA	10:AK:122:ARG:HG2	2.50	0.41
10:AK:78:THR:HG22	10:AK:144:HIS:HE1	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:23:A:C6	35:BB:24:G:O6	2.74	0.41
36:B1:18:U:C6	36:B1:18:U:O5'	2.65	0.41
36:B1:19:G:HO2'	36:B1:20:A:H5'	1.81	0.41
2:AA:1283:G:H2'	2:AA:1285:G:N7	2.35	0.41
2:AA:2367:G:C2'	2:AA:2368:C:H5'	2.50	0.41
47:BO:16:GLU:HG2	47:BO:17:LYS:N	2.36	0.41
47:BO:112:ASP:OD2	47:BO:112:ASP:N	2.52	0.41
24:A0:104:ARG:CA	24:A0:105:ARG:NH2	2.84	0.41
24:A0:72:ASP:O	24:A0:76:VAL:HB	2.21	0.41
24:A0:84:ALA:HB3	24:A0:85:PRO:CD	2.45	0.41
2:AA:1252:G:H22	25:A1:37:GLN:HB2	1.85	0.41
25:A1:57:PHE:O	25:A1:61:TRP:HD1	2.04	0.41
25:A1:87:ASN:C	25:A1:88:ILE:HD13	2.42	0.41
25:A1:91:ASN:O	25:A1:95:LEU:CD2	2.58	0.41
26:A2:89:ASN:O	26:A2:91:THR:HG23	2.20	0.41
28:A4:42:PHE:CE2	28:A4:43:TRP:O	2.73	0.41
32:A8:33:ASN:O	32:A8:34:THR:CB	2.69	0.41
2:AA:1071:G:N2	2:AA:1089:G:H2'	2.36	0.41
2:AA:1094:U:H3	2:AA:1096:A:H5''	1.85	0.41
2:AA:1143:A:C4	2:AA:1144:G:N7	2.89	0.41
2:AA:1163:G:C4'	26:A2:23:GLU:OE2	2.69	0.41
2:AA:1222:C:C2	2:AA:1223:C:H6	2.39	0.41
2:AA:1248:G:OP1	25:A1:2:PRO:CB	2.68	0.41
2:AA:1265:A:N3	2:AA:1265:A:C2'	2.83	0.41
2:AA:1370:C:H2'	2:AA:1371:G:H5'	2.03	0.41
2:AA:1386:C:H2'	2:AA:1387:C:C6	2.56	0.41
2:AA:1400:G:C6	2:AA:1401:G:O6	2.74	0.41
2:AA:1413:G:H2'	2:AA:1414:G:C5'	2.50	0.41
2:AA:1535:U:C1'	2:AA:1538:G:N2	2.83	0.41
2:AA:1608:A:C6	2:AA:1611:C:C1'	3.04	0.41
2:AA:1651:G:C2	2:AA:1652:A:C5	3.09	0.41
2:AA:1680:U:O5'	2:AA:1680:U:H6	2.04	0.41
2:AA:1718:G:C2	2:AA:1742:C:O2	2.74	0.41
2:AA:1777:U:C4	2:AA:1778:U:H5	2.37	0.41
2:AA:1844:C:N1	2:AA:1897:G:N2	2.69	0.41
2:AA:1870:C:C4	2:AA:1871:A:C6	3.08	0.41
2:AA:2042:A:H2'	2:AA:2043:C:OP2	2.21	0.41
2:AA:2048:G:N2	2:AA:2620:C:C2	2.77	0.41
2:AA:2061:G:N7	2:AA:2501:C:C1'	2.80	0.41
2:AA:2107:C:C6	2:AA:2107:C:C3'	3.03	0.41
2:AA:2128:C:O2	2:AA:2128:C:H2'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2136:C:C5'	2:AA:2137:C:OP2	2.66	0.41
2:AA:2152:G:H2'	2:AA:2153:G:O4'	2.21	0.41
2:AA:2080:G:C6	2:AA:2241:A:C6	3.09	0.41
2:AA:2316:C:H6	2:AA:2316:C:H5''	1.86	0.41
2:AA:2415:G:C2	2:AA:2416:C:C5	3.08	0.41
2:AA:242:G:H2'	2:AA:254:G:O6	2.21	0.41
2:AA:2436:G:C2'	2:AA:2437:U:C5'	2.99	0.41
2:AA:2474:C:C2'	2:AA:2475:C:C5'	2.97	0.41
2:AA:2521:C:H2'	2:AA:2522:U:O5'	2.19	0.41
2:AA:2555:U:C5	2:AA:2556:C:C6	3.09	0.41
2:AA:2564:A:N6	2:AA:2565:A:N6	2.68	0.41
2:AA:2596:U:O5'	2:AA:2596:U:H6	2.03	0.41
2:AA:2630:G:C8	2:AA:2894:G:C6	3.09	0.41
2:AA:262:A:C5	2:AA:263:C:C6	3.08	0.41
2:AA:2645:G:C8	2:AA:2645:G:OP2	2.74	0.41
2:AA:2731:G:N2	2:AA:2732:G:N3	2.68	0.41
2:AA:2797:U:OP1	2:AA:2797:U:O4'	2.38	0.41
2:AA:2838:G:C5	2:AA:2839:G:C8	3.09	0.41
2:AA:285:C:N1	2:AA:356:G:N2	2.65	0.41
2:AA:291:C:H2'	2:AA:292:C:H6	1.86	0.41
2:AA:302:C:O2'	2:AA:303:U:O5'	2.38	0.41
2:AA:306:U:H3'	2:AA:306:U:H6	1.85	0.41
2:AA:353:G:H2'	2:AA:354:G:C5'	2.51	0.41
2:AA:543:C:N1	2:AA:551:G:N2	2.68	0.41
2:AA:590:A:N6	2:AA:591:C:N4	2.69	0.41
2:AA:638:G:O6	2:AA:650:C:C4	2.74	0.41
2:AA:640:C:O2	2:AA:648:G:N1	2.54	0.41
2:AA:729:G:C8	4:AD:207:ALA:CB	3.03	0.41
2:AA:783:A:C8	2:AA:783:A:H3'	2.56	0.41
2:AA:789:A:H4'	2:AA:790:C:OP2	2.21	0.41
2:AA:826:U:C2	2:AA:832:G:C2	3.09	0.41
2:AA:976:C:C2	2:AA:977:G:C8	3.09	0.41
2:AA:978:G:N1	2:AA:985:C:N4	2.22	0.41
1:AB:50:G:O6	1:AB:51:G:O6	2.39	0.41
1:AB:89:G:C2	1:AB:89(A):A:N1	2.89	0.41
1:AB:9:G:H2'	1:AB:9:G:N3	2.36	0.41
3:AC:100:ILE:HD12	3:AC:122:ALA:HB1	2.02	0.41
3:AC:163:PHE:HZ	3:AC:199:HIS:ND1	2.18	0.41
3:AC:25:ALA:O	3:AC:28:LEU:N	2.53	0.41
3:AC:34:THR:O	3:AC:34:THR:HG22	2.21	0.41
4:AD:70:LYS:HG3	4:AD:73:ILE:CD1	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:158:GLU:HA	6:AF:161:ASP:OD2	2.21	0.41
6:AF:207:LEU:C	6:AF:209:GLY:H	2.15	0.41
6:AF:52:ALA:CA	6:AF:55:ARG:HH21	2.34	0.41
6:AF:56:THR:C	6:AF:79:ARG:HG3	2.41	0.41
7:AG:138:GLY:O	7:AG:139:TYR:C	2.59	0.41
7:AG:13:MET:HE2	7:AG:137:PRO:HB3	2.02	0.41
1:AB:57:A:C2'	7:AG:13:MET:SD	3.07	0.41
7:AG:63:ILE:O	7:AG:64:ARG:C	2.59	0.41
7:AG:67:ASP:HB2	7:AG:69:ILE:CD1	2.49	0.41
9:AI:115:LYS:NZ	9:AI:127:LEU:HB3	2.35	0.41
9:AJ:103:LYS:HD3	9:AJ:114:ILE:HD13	2.02	0.41
11:AL:33:VAL:HG13	11:AL:38:PHE:CD2	2.56	0.41
11:AL:89:SER:HB2	11:AL:95:LYS:HG2	2.02	0.41
12:AM:58:GLU:O	12:AM:61:VAL:HB	2.21	0.41
13:AN:10:VAL:HG23	13:AN:17:ARG:C	2.39	0.41
15:AP:138:ARG:O	15:AP:139:ALA:C	2.58	0.41
16:AQ:41:LYS:NZ	16:AQ:68:GLU:OE1	2.53	0.41
18:AS:65:LEU:O	18:AS:66:GLU:O	2.38	0.41
19:AT:24:LEU:CB	19:AT:26:PHE:CZ	2.87	0.41
20:AU:15:PRO:O	20:AU:16:LEU:C	2.57	0.41
20:AU:54:ASP:C	20:AU:56:ALA:N	2.73	0.41
21:AV:135:VAL:O	21:AV:136:VAL:HG23	2.21	0.41
21:AV:37:LYS:CA	21:AV:40:ASP:OD1	2.68	0.41
22:AW:12:THR:CB	22:AW:13:PRO:HD2	2.48	0.41
22:AW:30:ALA:O	22:AW:34:GLN:CG	2.69	0.41
22:AW:42:ASN:OD1	22:AW:42:ASN:C	2.58	0.41
36:B1:56:A:N3	36:B1:56:A:C2'	2.83	0.41
36:B1:69:A:O2'	36:B1:70:U:C6	2.74	0.41
34:BA:1054:C:N3	35:BB:34:G:C5'	2.82	0.41
34:BA:1060:C:H5''	45:BM:51:ARG:CD	2.51	0.41
34:BA:1085:U:O3'	34:BA:1086:U:H6	2.02	0.41
34:BA:1124:G:H3'	34:BA:1145:C:C5	2.54	0.41
34:BA:1133:G:C6	34:BA:1134:G:N7	2.88	0.41
34:BA:1145:C:C2'	34:BA:1146:A:OP2	2.69	0.41
34:BA:1166:G:N2	34:BA:1171:G:O6	2.53	0.41
34:BA:1157:A:H1'	34:BA:1181:G:N2	2.32	0.41
34:BA:118:U:O2'	34:BA:119:A:H5'	2.21	0.41
34:BA:1213:A:C6	34:BA:1215:G:C2	3.09	0.41
34:BA:1261:A:C2	34:BA:1262:C:N1	2.89	0.41
34:BA:138:G:C2	34:BA:226:G:C4	3.09	0.41
34:BA:1496:C:H2'	34:BA:1497:G:O4'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1506:U:N3	34:BA:1522:U:OP1	2.50	0.41
34:BA:1533:C:O4'	34:BA:1533:C:OP1	2.38	0.41
34:BA:129(A):G:N1	34:BA:190(D):U:H4'	2.32	0.41
34:BA:202:U:O2'	34:BA:203:U:OP1	2.35	0.41
34:BA:22:G:OP1	34:BA:561:U:O2	2.39	0.41
34:BA:236:G:C5	34:BA:237:C:N4	2.88	0.41
34:BA:262:A:C2	34:BA:263:A:N1	2.89	0.41
34:BA:384:G:C2'	34:BA:385:C:O4'	2.68	0.41
34:BA:399:G:C4	34:BA:400:C:C6	3.09	0.41
34:BA:51:A:C2	34:BA:353:A:N1	2.87	0.41
34:BA:597:G:C4	34:BA:598:U:C6	3.08	0.41
34:BA:640:A:N7	34:BA:641:U:C5	2.89	0.41
34:BA:706:A:H2'	34:BA:706:A:N3	2.36	0.41
34:BA:783:C:C2'	34:BA:784:C:C5'	2.89	0.41
34:BA:888:G:C4	34:BA:889:A:N7	2.89	0.41
34:BA:944:G:OP2	34:BA:945:G:N7	2.54	0.41
34:BA:958:A:H1'	34:BA:985:C:O2'	2.20	0.41
34:BA:974:A:OP2	49:BQ:31:ARG:CG	2.69	0.41
34:BA:992:U:H4'	34:BA:993:G:C5'	2.51	0.41
35:BC:9:A:H2	35:BC:45:G:N7	2.12	0.41
35:BC:18:G:N2	35:BC:58:A:C4	2.89	0.41
35:BC:60:C:C4'	35:BC:61:C:OP2	2.67	0.41
37:BE:179:LYS:O	37:BE:180:LEU:C	2.59	0.41
37:BE:72:GLY:C	37:BE:74:LYS:H	2.23	0.41
37:BE:96:ARG:N	37:BE:96:ARG:CD	2.82	0.41
38:BF:175:LEU:HD21	38:BF:201:TYR:CE2	2.55	0.41
39:BG:127:THR:OG1	39:BG:149:ALA:HA	2.20	0.41
39:BG:10:ARG:C	39:BG:13:ARG:HB2	2.32	0.41
39:BG:25:ARG:HE	39:BG:30:LYS:CD	2.21	0.41
40:BH:57:LYS:O	40:BH:58:ALA:C	2.59	0.41
40:BH:86:ALA:O	40:BH:125:SER:HB2	2.20	0.41
41:BI:42:GLU:OE1	41:BI:59:TYR:OH	2.31	0.41
42:BJ:22:LEU:HD12	42:BJ:101:LEU:HD11	2.03	0.41
42:BJ:35:LYS:C	42:BJ:37:ASN:N	2.71	0.41
43:BK:18:ARG:CG	43:BK:18:ARG:NH1	2.84	0.41
43:BK:4:ASP:OD1	43:BK:6:ILE:CG2	2.62	0.41
34:BA:1148:U:H5'	44:BL:16:ARG:CD	2.50	0.41
44:BL:67:GLY:CA	44:BL:73:GLN:HE21	2.31	0.41
46:BN:67:ASP:HA	46:BN:70:LYS:HE3	2.00	0.41
46:BN:69:ALA:HA	46:BN:72:ALA:HB3	2.02	0.41
46:BN:16:SER:CA	46:BN:77:MET:SD	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BO:102:ARG:HH21	47:BO:109:GLY:C	2.23	0.41
47:BO:24:VAL:HG22	47:BO:98:TYR:CE1	2.56	0.41
47:BO:46:LYS:C	47:BO:48:PRO:HD2	2.41	0.41
47:BO:56:ALA:O	47:BO:67:THR:HA	2.21	0.41
48:BP:11:ARG:HA	48:BP:11:ARG:HD2	1.93	0.41
48:BP:14:ARG:O	48:BP:15:VAL:C	2.59	0.41
48:BP:12:ASN:O	48:BP:44:ARG:HG2	2.21	0.41
48:BP:48:LEU:HD13	48:BP:53:VAL:CG2	2.41	0.41
50:BR:38:ARG:O	50:BR:41:GLU:HB3	2.21	0.41
51:BS:53:VAL:HG23	51:BS:54:GLU:N	2.36	0.41
52:BT:11:VAL:CG2	52:BT:20:THR:OG1	2.68	0.41
52:BT:65:ILE:O	52:BT:66:SER:CB	2.69	0.41
53:BU:21:LYS:CA	53:BU:55:ARG:NH1	2.77	0.41
53:BU:53:ARG:HG2	53:BU:63:GLN:OE1	2.21	0.41
54:BV:11:VAL:HG21	54:BV:41:VAL:CG1	2.51	0.41
54:BV:61:TYR:CD2	54:BV:62:ILE:N	2.88	0.41
55:BW:43:LEU:HB3	55:BW:52:ALA:CB	2.46	0.41
56:BX:20:LYS:O	56:BX:21:TYR:O	2.39	0.41
24:A0:103:ARG:HB2	24:A0:108:GLY:C	2.41	0.41
24:A0:37:THR:O	24:A0:40:LYS:HB2	2.20	0.41
26:A2:4:ILE:HG23	26:A2:13:ARG:CA	2.51	0.41
27:A3:18:PRO:O	27:A3:19:LYS:HG3	2.20	0.41
27:A3:24:LYS:C	27:A3:25:LYS:HG3	2.41	0.41
27:A3:54:GLY:O	27:A3:55:ARG:HB3	2.21	0.41
28:A4:26:SER:O	28:A4:27:THR:HG23	2.20	0.41
18:AS:38:TYR:HB2	29:A5:30:LEU:HD21	2.03	0.41
32:A8:53:ALA:HA	32:A8:56:ALA:HB3	2.02	0.41
33:A9:2:LYS:CD	33:A9:33:LYS:O	2.58	0.41
2:AA:1020:A:O2'	12:AM:49:ARG:CD	2.68	0.41
2:AA:1027:A:O2'	2:AA:1028:A:H5'	2.21	0.41
2:AA:1085:A:OP1	9:AI:34:ALA:CA	2.69	0.41
2:AA:1104:C:O2'	9:AI:29:PHE:HA	2.20	0.41
2:AA:1144:G:N7	2:AA:1145:C:C5	2.89	0.41
2:AA:1180:C:H2'	2:AA:1181:C:C6	2.55	0.41
2:AA:1208:C:C5	2:AA:1209:G:N7	2.89	0.41
2:AA:1306:C:H6	2:AA:1306:C:O5'	2.03	0.41
2:AA:1343:G:C6	2:AA:1344:G:N7	2.89	0.41
2:AA:1364:G:C2	2:AA:1367:A:OP2	2.74	0.41
2:AA:1377:G:O5'	2:AA:1377:G:H8	2.04	0.41
2:AA:1388:G:C4	2:AA:1389:G:C8	3.09	0.41
2:AA:1491:G:OP1	2:AA:1491:G:C3'	2.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1626:G:C5'	2:AA:1627:G:OP1	2.69	0.41
2:AA:1630:G:N2	2:AA:1636:C:N3	2.68	0.41
2:AA:1696:G:H2'	2:AA:1697:G:H8	1.84	0.41
2:AA:1703:G:C6	2:AA:1704:G:C5	3.09	0.41
2:AA:185:U:N3	2:AA:212:G:C2	2.89	0.41
2:AA:1922:G:C3'	2:AA:1922:G:C8	3.04	0.41
2:AA:194:G:C6	2:AA:195:A:C5	3.09	0.41
2:AA:1984:G:C2	2:AA:1985:G:N9	2.89	0.41
2:AA:1988:C:C2'	2:AA:1989:G:O5'	2.69	0.41
2:AA:1993:U:C2	2:AA:1994:C:C6	3.09	0.41
2:AA:2019:A:N1	2:AA:2035:G:O6	2.53	0.41
2:AA:2049:G:C2	2:AA:2620:C:C2	3.09	0.41
2:AA:20:C:O5'	2:AA:20:C:H6	2.04	0.41
2:AA:2179:C:C3'	2:AA:2180:U:C5	3.04	0.41
2:AA:2099:U:O4	2:AA:2190:G:O6	2.39	0.41
2:AA:2259:G:O2'	2:AA:2260:C:H5'	2.21	0.41
2:AA:2323:G:H2'	2:AA:2324:C:C5	2.52	0.41
2:AA:2492:U:N3	2:AA:2493:U:H5	2.16	0.41
2:AA:2511:U:H2'	2:AA:2512:C:C5'	2.51	0.41
2:AA:2533:A:H2'	2:AA:2534:A:O4'	2.21	0.41
2:AA:2570:G:H2'	2:AA:2570:G:N3	2.35	0.41
2:AA:2634:G:C6	2:AA:2635:C:H5	2.39	0.41
2:AA:1456:G:C2	2:AA:2704:C:N3	2.89	0.41
2:AA:270(C):C:O4'	2:AA:270(C):C:P	2.79	0.41
2:AA:2748:A:H2'	2:AA:2749:A:O5'	2.21	0.41
2:AA:2762:G:C6	2:AA:2763:G:C6	3.09	0.41
2:AA:288:C:H6	2:AA:288:C:C4'	2.32	0.41
2:AA:434:U:OP2	2:AA:434:U:C6	2.74	0.41
2:AA:592:G:C2	2:AA:593:G:C4	3.09	0.41
2:AA:631:A:O2'	2:AA:632:A:H5'	2.21	0.41
2:AA:638:G:H2'	2:AA:639:U:C5'	2.50	0.41
2:AA:662:G:C2	2:AA:663:G:O6	2.74	0.41
2:AA:662:G:H2'	2:AA:663:G:C8	2.56	0.41
2:AA:668:G:C2'	2:AA:670:A:N7	2.80	0.41
2:AA:67:U:O5'	2:AA:67:U:C6	2.67	0.41
2:AA:684:G:C8	2:AA:684:G:H3'	2.56	0.41
2:AA:718:A:H5'	2:AA:719:C:OP2	2.20	0.41
2:AA:727:A:N6	2:AA:728:G:C2	2.88	0.41
2:AA:785:G:C2	2:AA:786:C:N1	2.88	0.41
2:AA:799:G:C5	2:AA:800:A:C6	3.09	0.41
2:AA:814:C:N3	2:AA:815:C:C4	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:826:U:O2	2:AA:832:G:C2	2.74	0.41
2:AA:953:A:H1'	2:AA:2266:A:OP2	2.20	0.41
1:AB:104:A:H1'	21:AV:24:TYR:CZ	2.51	0.41
1:AB:15:A:N1	1:AB:109:G:C2	2.89	0.41
1:AB:74:U:H3'	1:AB:75:G:H8	1.85	0.41
1:AB:83:G:C4'	23:AX:52:HIS:CD2	2.90	0.41
3:AC:114:VAL:CG2	3:AC:153:ILE:HG12	2.48	0.41
3:AC:22:ILE:HD13	3:AC:22:ILE:HG21	1.83	0.41
4:AD:130:PRO:N	4:AD:188:ARG:HG2	2.36	0.41
4:AD:64:ILE:HD12	4:AD:64:ILE:N	2.35	0.41
6:AF:112:ARG:O	6:AF:113:SER:C	2.56	0.41
6:AF:6:TYR:HB2	6:AF:141:SER:OG	2.20	0.41
7:AG:54:ALA:HB1	7:AG:55:LYS:H	1.61	0.41
8:AH:104:LEU:HD13	8:AH:151:ARG:HH21	1.86	0.41
2:AA:2748:A:H2'	8:AH:62:ALA:HA	2.03	0.41
9:AI:127:LEU:HD23	9:AI:127:LEU:H	1.85	0.41
2:AA:1055:G:C2	9:AI:28:LYS:HB3	2.55	0.41
9:AI:77:VAL:HG21	9:AI:92:VAL:HG22	2.03	0.41
9:AJ:81:THR:CG2	9:AJ:103:LYS:HG2	2.50	0.41
9:AJ:118:LEU:HD12	9:AJ:125:VAL:HG21	2.02	0.41
9:AJ:78:ARG:NH2	9:AJ:89:LYS:HE3	2.36	0.41
11:AL:118:ALA:O	11:AL:119:ASN:OD1	2.38	0.41
11:AL:14:PRO:O	11:AL:15:ALA:O	2.39	0.41
12:AM:103:VAL:C	12:AM:104:TYR:CG	2.93	0.41
12:AM:12:VAL:O	12:AM:38:VAL:CG1	2.64	0.41
12:AM:23:ALA:C	12:AM:26:VAL:HB	2.36	0.41
13:AN:63:VAL:CG1	13:AN:102:VAL:HG11	2.49	0.41
14:AO:67:ARG:CZ	14:AO:111:ALA:O	2.68	0.41
16:AQ:126:GLY:O	16:AQ:128:ASP:N	2.53	0.41
16:AQ:31:LYS:HZ2	16:AQ:99:GLU:CB	2.33	0.41
16:AQ:33:ARG:CB	16:AQ:35:VAL:HG23	2.51	0.41
16:AQ:61:ALA:O	16:AQ:62:HIS:CG	2.74	0.41
16:AQ:70:GLY:C	16:AQ:71:TRP:CE3	2.95	0.41
16:AQ:93:GLN:O	16:AQ:94:GLU:C	2.59	0.41
17:AR:47:ARG:HG3	17:AR:47:ARG:H	1.64	0.41
18:AS:55:ALA:CB	18:AS:107:LEU:CD1	2.98	0.41
2:AA:1339:G:H4'	19:AT:13:LYS:HE3	2.02	0.41
19:AT:16:ASN:O	19:AT:20:PHE:CE1	2.74	0.41
19:AT:22:ASN:C	19:AT:23:LYS:O	2.59	0.41
15:AP:35:ASN:CG	21:AV:114:ASP:H	2.25	0.41
21:AV:148:THR:CA	21:AV:168:VAL:CG2	2.92	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:172:LEU:CD2	21:AV:173:PRO:O	2.64	0.41
21:AV:30:VAL:HG12	21:AV:31:SER:N	2.35	0.41
35:BB:35:A:H61	36:B1:65:U:H2'	1.86	0.41
36:B1:65:U:O3'	36:B1:66:G:C8	2.69	0.41
34:BA:1086:U:H2'	34:BA:1087:G:C8	2.55	0.41
34:BA:1107:C:OP1	38:BF:172:ARG:HA	2.21	0.41
34:BA:117:G:C6	34:BA:118:U:C2	3.09	0.41
34:BA:1256:A:O2'	34:BA:1257:U:H1'	2.21	0.41
34:BA:1330:U:C4	34:BA:1331:G:C6	3.08	0.41
34:BA:1336:C:O2	34:BA:1336:C:C2'	2.69	0.41
34:BA:1364:U:OP1	34:BA:1364:U:H6	2.04	0.41
34:BA:1480:G:C2'	34:BA:1481:U:H5'	2.51	0.41
34:BA:1494:G:N1	34:BA:1495:U:C4	2.89	0.41
34:BA:1503:A:O2'	34:BA:1504:G:OP1	2.38	0.41
34:BA:1519:A:C3'	34:BA:1519:A:C8	3.04	0.41
34:BA:182:U:H3'	34:BA:182:U:C6	2.56	0.41
34:BA:183:G:N2	34:BA:223:U:O2'	2.53	0.41
34:BA:254:G:C6	34:BA:273:A:N1	2.89	0.41
34:BA:301:G:C2'	34:BA:302:G:O5'	2.69	0.41
34:BA:333:G:C2	34:BA:334:C:N3	2.89	0.41
34:BA:384:G:H2'	34:BA:385:C:H6	1.86	0.41
34:BA:458:C:N4	34:BA:459:G:C6	2.88	0.41
34:BA:485:G:O2'	34:BA:486:U:C5	2.71	0.41
34:BA:502:G:O6	34:BA:544:G:O6	2.39	0.41
34:BA:641:U:O3'	34:BA:642:A:C8	2.74	0.41
34:BA:655:A:O2'	34:BA:656:C:H5'	2.21	0.41
34:BA:666:G:C5	34:BA:741:G:C6	3.09	0.41
34:BA:698:G:N1	34:BA:699:C:C4	2.89	0.41
34:BA:665:A:C4	34:BA:725:G:N2	2.89	0.41
34:BA:774:G:C5	34:BA:775:G:C8	3.09	0.41
34:BA:792:A:O2'	34:BA:793:U:H5''	2.21	0.41
34:BA:785:G:C2	34:BA:798:G:C5	3.09	0.41
34:BA:783:C:N4	34:BA:800:G:N2	2.69	0.41
34:BA:854:G:C6	34:BA:855:G:N7	2.89	0.41
34:BA:876:G:C2	34:BA:877:C:C5	3.09	0.41
34:BA:90:U:H2'	34:BA:91:C:H6	1.85	0.41
34:BA:914:A:O2'	34:BA:915:A:O5'	2.39	0.41
34:BA:988:G:C5	34:BA:989:C:C4	3.08	0.41
35:BB:58:A:C2	35:BB:61:C:O4'	2.74	0.41
35:BB:62:A:C2'	35:BB:63:C:C5'	2.99	0.41
35:BC:2:C:C2'	35:BC:3:G:O5'	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BC:60:C:C5'	35:BC:61:C:O5'	2.69	0.41
35:BC:53:G:C2	35:BC:62:A:C6	3.09	0.41
37:BE:72:GLY:HA2	37:BE:165:VAL:HG21	2.01	0.41
38:BF:88:ARG:N	38:BF:101:LEU:HD12	2.36	0.41
38:BF:22:TRP:O	38:BF:23:TYR:HB2	2.21	0.41
38:BF:30:ARG:HB3	49:BQ:36:PHE:O	2.21	0.41
38:BF:43:LEU:HA	38:BF:47:LEU:HD23	2.03	0.41
39:BG:112:VAL:HG23	39:BG:161:ASN:HD21	1.85	0.41
39:BG:148:VAL:CB	39:BG:181:MET:HE1	2.28	0.41
40:BH:75:THR:CB	40:BH:118:ILE:HG12	2.42	0.41
40:BH:43:LEU:HB3	40:BH:136:MET:HE2	2.03	0.41
41:BI:13:ASN:H	41:BI:13:ASN:ND2	2.18	0.41
42:BJ:121:ALA:HB1	42:BJ:125:MET:HE3	2.02	0.41
34:BA:587:G:O2'	43:BK:1:MET:SD	2.70	0.41
43:BK:49:GLU:CG	43:BK:62:TYR:OH	2.67	0.41
44:BL:71:SER:O	44:BL:72:GLY:C	2.57	0.41
45:BM:38:ILE:HA	45:BM:39:PRO:HD2	1.81	0.41
46:BN:57:THR:HG23	46:BN:60:ALA:N	2.18	0.41
48:BP:96:LEU:O	48:BP:98:VAL:HG23	2.20	0.41
50:BR:4:THR:O	50:BR:5:LYS:C	2.58	0.41
50:BR:70:LEU:HG	50:BR:78:TYR:HA	2.01	0.41
51:BS:32:TYR:CE2	51:BS:35:LYS:CB	3.00	0.41
52:BT:12:SER:CB	52:BT:20:THR:OG1	2.68	0.41
53:BU:62:GLU:C	53:BU:66:LEU:CD2	2.89	0.41
54:BV:38:SER:O	54:BV:70:LYS:CG	2.66	0.41
54:BV:63:THR:H	54:BV:66:MET:HG3	1.86	0.41
55:BW:15:ARG:HA	55:BW:15:ARG:HD3	1.77	0.41
10:AK:88:ARG:CB	10:AK:122:ARG:HG2	2.47	0.41
10:AK:133:LEU:HB2	10:AK:138:THR:HA	2.03	0.41
10:AK:83:ALA:O	10:AK:90:PHE:CE1	2.74	0.41
2:AA:236:C:O2'	2:AA:431:U:C1'	2.68	0.41
37:BE:11:LEU:HD23	37:BE:11:LEU:N	2.36	0.41
37:BE:124:SER:OG	37:BE:126:GLU:HB2	2.20	0.41
47:BO:17:LYS:HZ3	47:BO:17:LYS:HG2	1.68	0.41
48:BP:69:GLU:HG3	48:BP:72:ALA:HB3	2.03	0.41
2:AA:276:A:C2	2:AA:277:C:H5''	2.56	0.41
2:AA:1017:G:C6	2:AA:1146:C:N4	2.88	0.41
3:AC:16:PRO:O	3:AC:17:ASN:HB3	2.21	0.41
2:AA:1600:C:O5'	2:AA:1600:C:H6	2.04	0.41
24:A0:29:LEU:HB2	24:A0:75:LEU:HD11	2.03	0.41
24:A0:79:LEU:CG	24:A0:80:PHE:N	2.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:A0:87:TYR:O	24:A0:89:ASP:N	2.54	0.41
2:AA:18:C:P	25:A1:26:GLY:HA2	2.61	0.41
26:A2:57:GLN:O	26:A2:58:ALA:CB	2.60	0.41
27:A3:39:ARG:CZ	27:A3:69:PHE:CE2	3.04	0.41
27:A3:28:GLY:N	27:A3:60:PHE:CG	2.89	0.41
28:A4:63:PHE:CD2	28:A4:69:ARG:NH2	2.89	0.41
30:A6:40:TYR:HB3	30:A6:41:ASP:H	1.61	0.41
31:A7:29:ASN:O	31:A7:30:ILE:C	2.59	0.41
32:A8:36:LYS:HG2	32:A8:40:GLU:OE2	2.21	0.41
2:AA:592:G:O2'	32:A8:3:LYS:HB2	2.20	0.41
2:AA:1025:G:C8	2:AA:1134:G:O2'	2.57	0.41
2:AA:1066:U:HO2'	2:AA:1068:G:H8	1.63	0.41
2:AA:1085:A:O2'	2:AA:1086:A:O5'	2.39	0.41
2:AA:109:G:H3'	2:AA:109:G:OP2	2.21	0.41
2:AA:1109:C:H5	2:AA:1110:G:N1	2.16	0.41
2:AA:1022:G:C5	2:AA:1139:G:C2	3.09	0.41
2:AA:1164:G:H2'	2:AA:1165:U:H6	1.84	0.41
2:AA:1183:G:H2'	2:AA:1184:G:C8	2.55	0.41
2:AA:1288:U:H5''	2:AA:1289:C:P	2.57	0.41
2:AA:1486:A:C2'	2:AA:1487:G:O4'	2.69	0.41
2:AA:151:C:N3	2:AA:152:G:N3	2.69	0.41
2:AA:1524:G:C4	2:AA:1525:G:C8	3.09	0.41
2:AA:1569:A:C6	2:AA:1570:A:C6	3.08	0.41
2:AA:1689:A:C2	2:AA:1700:A:N1	2.89	0.41
2:AA:1718:G:N2	2:AA:1742:C:N1	2.68	0.41
2:AA:172:C:C2'	2:AA:173:G:C8	2.80	0.41
2:AA:1742:C:H3'	2:AA:1742:C:C6	2.56	0.41
2:AA:1787:A:C2	2:AA:1788:C:C5	3.09	0.41
2:AA:1788:C:C2'	2:AA:1789:A:H5'	2.48	0.41
2:AA:1838:C:C2'	2:AA:1898:U:O4	2.69	0.41
2:AA:1933:G:C2'	2:AA:1934:C:C5'	2.98	0.41
2:AA:1933:G:N2	2:AA:1973:G:O2'	2.48	0.41
2:AA:2004:G:H2'	2:AA:2005:A:C8	2.56	0.41
2:AA:2052:G:N3	2:AA:2053:G:C8	2.89	0.41
2:AA:2125:G:N7	2:AA:2128:C:C6	2.89	0.41
2:AA:2140:C:C6	2:AA:2140:C:OP2	2.73	0.41
2:AA:2147:G:O6	2:AA:2150:U:O4	2.39	0.41
2:AA:2177:C:H5''	3:AC:46:LYS:CG	2.50	0.41
2:AA:2106:G:C2	2:AA:2182:G:N2	2.89	0.41
2:AA:2278:A:O2'	2:AA:2279:G:C5'	2.59	0.41
2:AA:2383:G:C2	2:AA:2384:G:C4	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:241:A:O2'	2:AA:242:G:H1'	2.21	0.41
2:AA:2581:G:P	5:AE:226:HIS:HE2	2.44	0.41
2:AA:2606:C:H3'	2:AA:2606:C:C6	2.56	0.41
2:AA:2868:A:C2'	2:AA:2869:G:O5'	2.69	0.41
2:AA:2881:C:H2'	2:AA:2882:A:C8	2.56	0.41
2:AA:294:A:H4'	20:AU:15:PRO:CD	2.50	0.41
2:AA:303:U:C4	2:AA:304:G:N7	2.89	0.41
2:AA:326:G:O2'	2:AA:327:G:C5'	2.69	0.41
2:AA:352:G:C2	2:AA:353:G:H1'	2.56	0.41
2:AA:372:G:O5'	2:AA:372:G:C8	2.73	0.41
2:AA:434:U:O2'	2:AA:435:C:P	2.78	0.41
2:AA:448:U:O2'	2:AA:449:A:P	2.78	0.41
2:AA:472:A:H2'	2:AA:473:G:H5'	2.03	0.41
2:AA:50:U:H6	2:AA:50:U:C3'	2.16	0.41
2:AA:542:C:C2	2:AA:543:C:H5	2.37	0.41
2:AA:580:C:C2	2:AA:581:C:C4	3.09	0.41
2:AA:635:C:C2'	2:AA:636:G:H8	2.19	0.41
2:AA:673:C:H1'	6:AF:82:GLN:OE1	2.21	0.41
2:AA:675:A:C6	2:AA:676:A:C6	3.08	0.41
2:AA:702:G:H1	2:AA:730:C:N4	2.19	0.41
2:AA:855:G:N2	27:A3:26:PHE:CZ	2.89	0.41
2:AA:856:C:H5'	27:A3:25:LYS:NZ	2.35	0.41
2:AA:950:G:O6	2:AA:968:G:O6	2.39	0.41
1:AB:15:A:C6	1:AB:109:G:C6	3.09	0.41
1:AB:73:A:C2	1:AB:74:U:C4	3.09	0.41
1:AB:77:U:O3'	21:AV:73:LYS:NZ	2.52	0.41
3:AC:133:PRO:CA	3:AC:172:HIS:NE2	2.75	0.41
3:AC:23:ASP:HA	3:AC:186:ALA:HB2	2.02	0.41
3:AC:28:LEU:HD13	3:AC:31:GLU:OE1	2.21	0.41
3:AC:52:ARG:O	3:AC:53:ARG:HG3	2.21	0.41
3:AC:53:ARG:C	3:AC:55:ASP:N	2.74	0.41
3:AC:74:VAL:HG21	3:AC:156:ILE:CD1	2.51	0.41
4:AD:142:ASN:O	4:AD:144:GLU:N	2.54	0.41
4:AD:206:LYS:HG3	4:AD:206:LYS:H	1.14	0.41
2:AA:2679:A:O2'	5:AE:302:GLY:HA2	2.20	0.41
5:AE:73:ILE:CG2	5:AE:74:GLU:N	2.84	0.41
6:AF:205:ARG:HG2	6:AF:212:VAL:HB	2.00	0.41
6:AF:94:THR:CA	6:AF:98:ARG:NH2	2.84	0.41
7:AG:133:ASN:C	7:AG:134:LEU:O	2.58	0.41
7:AG:138:GLY:O	7:AG:141:VAL:HG23	2.21	0.41
7:AG:85:GLN:H	7:AG:85:GLN:HG3	1.66	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:24:THR:HA	8:AH:33:THR:HA	2.02	0.41
8:AH:18:VAL:HG12	8:AH:42:ILE:HD12	2.00	0.41
8:AH:92:GLY:HA2	8:AH:94:ARG:HH21	1.86	0.41
9:AI:72:GLN:HA	9:AI:75:LYS:CE	2.51	0.41
10:AK:29:PHE:HE2	10:AK:30:LEU:HD11	1.85	0.41
10:AK:2:LYS:CG	10:AK:39:ALA:HB2	2.50	0.41
11:AL:117:ASN:N	11:AL:117:ASN:OD1	2.44	0.41
11:AL:28:LEU:HD22	11:AL:33:VAL:HG21	2.03	0.41
11:AL:95:LYS:O	11:AL:96:ILE:C	2.60	0.41
12:AM:108:PRO:C	12:AM:109:TYR:CG	2.94	0.41
2:AA:1139:G:H2'	12:AM:47:THR:CG2	2.51	0.41
13:AN:63:VAL:HG23	13:AN:84:CYS:SG	2.61	0.41
13:AN:77:ILE:HD13	13:AN:78:ARG:CA	2.48	0.41
15:AP:32:LYS:HE3	21:AV:172:LEU:HD11	1.98	0.41
15:AP:67:ALA:CA	15:AP:70:ARG:HH11	2.32	0.41
16:AQ:103:ASP:O	16:AQ:105:GLY:N	2.54	0.41
16:AQ:109:PRO:HA	16:AQ:115:VAL:HB	2.02	0.41
16:AQ:124:ASP:N	16:AQ:124:ASP:OD1	2.54	0.41
16:AQ:121:GLY:O	16:AQ:125:ALA:HB2	2.21	0.41
16:AQ:48:VAL:HG13	16:AQ:55:ASP:OD1	2.21	0.41
18:AS:12:ILE:O	18:AS:14:PRO:HD3	2.21	0.41
18:AS:28:SER:OG	18:AS:31:GLU:N	2.54	0.41
18:AS:32:ALA:O	18:AS:35:ILE:CB	2.66	0.41
18:AS:29:LEU:C	18:AS:33:ARG:HD2	2.42	0.41
19:AT:3:ASP:HA	22:AW:24:LYS:CG	2.51	0.41
20:AU:30:ASP:HA	20:AU:33:GLU:OE1	2.21	0.41
21:AV:19:ILE:HG13	21:AV:79:ILE:CB	2.51	0.41
1:AB:73:A:N6	21:AV:24:TYR:HH	2.18	0.41
21:AV:3:LEU:O	21:AV:56:VAL:CG2	2.69	0.41
21:AV:91:PRO:O	21:AV:127:PRO:HG3	2.21	0.41
22:AW:12:THR:HA	22:AW:16:ARG:NH2	2.36	0.41
23:AX:12:PRO:O	23:AX:14:GLY:N	2.53	0.41
34:BA:1027:C:C4	34:BA:1028:C:C5	3.09	0.41
34:BA:1045:C:C2'	34:BA:1046:A:O5'	2.69	0.41
34:BA:1048:G:OP1	49:BQ:3:ARG:CA	2.69	0.41
34:BA:1073:U:N3	34:BA:1102:A:C6	2.80	0.41
34:BA:1117:G:C4	34:BA:1184:G:N2	2.89	0.41
34:BA:1150:U:H5'	34:BA:1280:A:C2	2.56	0.41
34:BA:1152:A:C2	34:BA:1153:C:C5	3.08	0.41
34:BA:1152:A:O2'	34:BA:1153:C:O5'	2.38	0.41
34:BA:1153:C:N4	34:BA:1154:G:O6	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1181:G:C2'	34:BA:1182:G:O4'	2.67	0.41
34:BA:960:U:O2'	34:BA:1223:C:H5'	2.21	0.41
34:BA:1251:A:O5'	34:BA:1251:A:H8	2.04	0.41
34:BA:1256:A:H4'	34:BA:1257:U:O2'	2.21	0.41
34:BA:1286:A:O2'	56:BX:22:ARG:NH2	2.54	0.41
34:BA:1238:A:N6	34:BA:1301:U:C2	2.87	0.41
34:BA:1308:U:C3'	48:BP:99:ARG:NH1	2.45	0.41
34:BA:136:C:C6	34:BA:136:C:O5'	2.74	0.41
34:BA:1449:C:H2'	34:BA:1450:U:C5'	2.50	0.41
34:BA:1494:G:C6	34:BA:1495:U:H5	2.39	0.41
34:BA:175:C:O2'	34:BA:176:C:C5'	2.68	0.41
34:BA:138:G:N2	34:BA:226:G:N9	2.68	0.41
34:BA:279:A:O2'	34:BA:280:C:OP2	2.35	0.41
34:BA:309:G:H2'	34:BA:310:G:H8	1.85	0.41
34:BA:325:A:C8	34:BA:326:G:C8	3.09	0.41
34:BA:346:G:C2'	34:BA:347:G:O4'	2.67	0.41
34:BA:49:U:C2	34:BA:364:A:N6	2.89	0.41
34:BA:407:G:H2'	34:BA:408:A:O5'	2.21	0.41
34:BA:408:A:H5'	39:BG:116:GLN:HE21	1.85	0.41
34:BA:40:C:N4	34:BA:403:C:N3	2.69	0.41
34:BA:602:A:C5	34:BA:603:U:C4	3.09	0.41
34:BA:653:A:C4'	43:BK:56:LYS:NZ	2.84	0.41
34:BA:64:G:N2	34:BA:67:C:N4	2.69	0.41
34:BA:698:G:H2'	34:BA:699:C:H6	1.84	0.41
34:BA:665:A:H2	34:BA:732:C:C4	2.35	0.41
34:BA:665:A:H2'	34:BA:732:C:O2	2.21	0.41
34:BA:664:G:H22	34:BA:741:G:H1	1.69	0.41
34:BA:580:U:C2	34:BA:761:G:O6	2.74	0.41
34:BA:77:G:C2	34:BA:78:G:C8	3.09	0.41
34:BA:797:C:O2'	34:BA:798:G:C5'	2.64	0.41
34:BA:830:G:O2'	34:BA:831:U:H5'	2.21	0.41
34:BA:876:G:H2'	34:BA:877:C:H6	1.86	0.41
34:BA:22:G:C4'	34:BA:885:G:H1'	2.51	0.41
34:BA:893:C:C2	34:BA:894:G:N7	2.89	0.41
34:BA:962:C:N4	34:BA:963:G:N7	2.68	0.41
34:BA:965:A:N3	34:BA:969:A:C4	2.89	0.41
35:BB:32:C:C4	35:BB:33:U:C2	3.09	0.41
35:BB:58:A:C2'	35:BB:59:U:O5'	2.68	0.41
35:BC:13:C:C2'	35:BC:13:C:O2	2.69	0.41
35:BC:47:U:C2	35:BC:50:U:P	3.14	0.41
2:AA:2439:A:N6	35:BC:76:A:OP2	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:53:ARG:CG	37:BE:199:TYR:CE2	3.01	0.41
37:BE:80:ILE:CD1	37:BE:211:ILE:CG2	2.98	0.41
37:BE:63:MET:O	37:BE:64:ARG:C	2.58	0.41
38:BF:134:ILE:HD12	38:BF:134:ILE:N	2.36	0.41
38:BF:77:ILE:HG22	38:BF:78:GLY:N	2.35	0.41
39:BG:177:ASP:OD2	39:BG:179:GLU:HG3	2.20	0.41
40:BH:110:LEU:O	40:BH:115:VAL:CG2	2.68	0.41
40:BH:121:LYS:HG3	40:BH:123:LEU:HD23	2.03	0.41
41:BI:10:LEU:O	41:BI:59:TYR:HB3	2.21	0.41
41:BI:44:GLY:C	41:BI:45:LEU:HG	2.41	0.41
43:BK:22:GLU:O	43:BK:63:LEU:HD13	2.22	0.41
43:BK:29:SER:HG	43:BK:30:ARG:N	2.19	0.41
43:BK:79:VAL:O	43:BK:81:HIS:N	2.54	0.41
43:BK:97:VAL:HG13	43:BK:98:LYS:HZ1	1.80	0.41
42:BJ:44:TYR:HE1	44:BL:41:VAL:HG21	1.86	0.41
46:BN:121:PRO:CB	46:BN:125:PHE:HB2	2.51	0.41
46:BN:126:ARG:O	46:BN:127:LYS:C	2.59	0.41
46:BN:40:ILE:O	46:BN:41:THR:HG22	2.21	0.41
46:BN:95:ILE:C	46:BN:98:LEU:HB2	2.36	0.41
47:BO:24:VAL:HA	47:BO:25:PRO:HD3	1.76	0.41
47:BO:44:THR:HA	47:BO:45:PRO:HD3	1.77	0.41
48:BP:89:GLY:O	48:BP:93:ARG:CB	2.58	0.41
49:BQ:4:LYS:O	49:BQ:6:LEU:N	2.53	0.41
51:BS:55:ARG:CA	51:BS:55:ARG:HE	2.24	0.41
52:BT:91:ARG:HB3	52:BT:91:ARG:HE	1.59	0.41
52:BT:90:ILE:HA	52:BT:93:GLN:HB2	2.03	0.41
53:BU:70:ILE:CG2	53:BU:74:ARG:HH21	2.34	0.41
53:BU:78:LEU:C	53:BU:79:LEU:HD13	2.41	0.41
54:BV:13:ASP:O	54:BV:14:HIS:C	2.59	0.41
54:BV:29:ARG:O	54:BV:30:LEU:O	2.39	0.41
55:BW:59:ALA:C	55:BW:61:SER:N	2.73	0.41
10:AK:110:LEU:CD2	10:AK:110:LEU:C	2.88	0.41
10:AK:121:ILE:CD1	10:AK:121:ILE:N	2.84	0.41
10:AK:133:LEU:CD1	10:AK:139:ALA:CB	2.99	0.41
10:AK:97:GLN:O	10:AK:98:ILE:C	2.59	0.41
37:BE:132:LYS:C	37:BE:133:LYS:HE2	2.40	0.41
10:AK:69:LYS:HG3	10:AK:73:GLU:OE1	2.21	0.41
37:BE:28:PHE:CD1	37:BE:31:TYR:HB2	2.56	0.41
31:A7:1:MET:CG	31:A7:1:MET:O	2.68	0.41
15:AP:95:GLU:OE2	15:AP:109:VAL:HG23	2.21	0.41
2:AA:57:C:P	2:AA:57:C:H6	2.43	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:152:PRO:C	7:AG:154:LYS:N	2.72	0.41
25:A1:115:ASN:N	25:A1:115:ASN:ND2	2.69	0.40
2:AA:446:G:H8	25:A1:3:ARG:HH22	1.65	0.40
27:A3:31:VAL:O	27:A3:32:LYS:C	2.59	0.40
27:A3:24:LYS:CD	27:A3:56:ASP:OD2	2.67	0.40
27:A3:24:LYS:CG	27:A3:58:THR:HG22	2.51	0.40
27:A3:36:ILE:CA	27:A3:68:VAL:HG13	2.50	0.40
28:A4:17:GLN:CG	28:A4:33:VAL:HG12	2.43	0.40
28:A4:42:PHE:O	28:A4:57:ASP:CA	2.62	0.40
28:A4:44:THR:N	28:A4:61:LYS:NZ	2.69	0.40
30:A6:36:GLU:HB3	30:A6:52:GLU:HB2	2.03	0.40
32:A8:38:GLY:O	32:A8:41:ILE:CG1	2.62	0.40
2:AA:2742:C:C5'	33:A9:35:ARG:NH2	2.84	0.40
2:AA:1006:C:O2'	12:AM:86:MET:CB	2.54	0.40
2:AA:1013:C:C2	2:AA:1014:U:C5	3.09	0.40
2:AA:1102:C:HO2'	2:AA:1103:A:H8	1.69	0.40
2:AA:1140:C:C5'	2:AA:142(A):A:C4	3.04	0.40
2:AA:1157:G:H3'	2:AA:1157:G:P	2.56	0.40
2:AA:1191:G:C3'	2:AA:1191:G:C8	3.04	0.40
2:AA:1194:A:N6	2:AA:1195:G:C6	2.89	0.40
2:AA:1212:G:O2'	2:AA:1213:A:P	2.78	0.40
2:AA:1309:G:N1	2:AA:1310:G:C4	2.89	0.40
2:AA:1368:G:H5''	2:AA:1368:G:H8	1.86	0.40
2:AA:1539:G:O3'	2:AA:1540:G:O4'	2.39	0.40
2:AA:1559:G:N3	2:AA:1559:G:C3'	2.82	0.40
2:AA:1599:C:OP1	19:AT:33:SER:HB2	2.21	0.40
2:AA:1628:G:C2	2:AA:1629:U:C5	3.09	0.40
2:AA:1647:G:H3'	2:AA:1647:G:P	2.61	0.40
2:AA:1664:A:H61	2:AA:1667:G:H22	1.67	0.40
2:AA:1729:A:H62	2:AA:1731:G:H1	1.68	0.40
2:AA:1709:U:N3	2:AA:1750:G:C2	2.89	0.40
2:AA:1754:C:H2'	2:AA:1754:C:O2	2.20	0.40
2:AA:1791:A:C2	2:AA:1829:A:C1'	3.04	0.40
2:AA:1859:A:C2	2:AA:1884:A:O2'	2.71	0.40
2:AA:1932:A:C5	2:AA:1969:A:N6	2.89	0.40
2:AA:196:A:C2	2:AA:805:G:C2	3.09	0.40
2:AA:1971:A:O2'	2:AA:1972:A:P	2.76	0.40
2:AA:1998:G:C6	2:AA:1999:C:C4	3.09	0.40
2:AA:2020:A:C6	2:AA:2022:U:C2	3.09	0.40
2:AA:2091:U:H3'	2:AA:2092:U:C5'	2.51	0.40
2:AA:2113:U:H2'	2:AA:2113:U:O2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2141:G:N1	2:AA:2151:G:C6	2.89	0.40
2:AA:215:G:C1'	2:AA:216:A:C4'	2.99	0.40
2:AA:2290:G:H21	2:AA:2374:C:H5'	1.86	0.40
2:AA:2302:G:H2'	2:AA:2303:G:H8	1.84	0.40
2:AA:233:A:H2'	2:AA:234:C:C6	2.48	0.40
2:AA:2422:A:O2'	2:AA:2424:C:C5	2.73	0.40
2:AA:2461:C:O5'	2:AA:2461:C:H6	2.04	0.40
2:AA:2510:C:C2	2:AA:2578:G:N1	2.82	0.40
2:AA:2512:C:H5''	5:AE:219:VAL:HG11	2.02	0.40
2:AA:2512:C:H3'	2:AA:2513:G:H5''	2.03	0.40
2:AA:2569:G:N1	2:AA:2570:G:N7	2.69	0.40
2:AA:2582:G:H2'	2:AA:2583:G:C5'	2.50	0.40
2:AA:2439:A:N6	2:AA:2585:U:H5'	2.37	0.40
2:AA:1786:A:H2	2:AA:2590:A:H1'	1.86	0.40
2:AA:2619:C:O2	2:AA:2619:C:C2'	2.68	0.40
2:AA:270(T):G:H2'	2:AA:270(U):C:O5'	2.21	0.40
2:AA:2712:U:C3'	2:AA:2714:G:OP2	2.50	0.40
2:AA:271(C):U:O2'	2:AA:271:G:C5'	2.68	0.40
2:AA:2721:A:H3'	2:AA:2722:G:C8	2.56	0.40
2:AA:2815:C:H2'	2:AA:2816:C:H6	1.86	0.40
2:AA:285:C:C2'	2:AA:286:C:C6	3.03	0.40
2:AA:82:G:C5'	2:AA:296:C:OP1	2.69	0.40
2:AA:318:C:OP2	2:AA:318:C:H6	2.04	0.40
2:AA:311:A:C6	2:AA:328:U:O2	2.74	0.40
2:AA:340:A:C5'	2:AA:340:A:H8	2.33	0.40
2:AA:342:G:C2	2:AA:344:G:C2	3.07	0.40
2:AA:346:A:O2'	2:AA:347:A:O5'	2.38	0.40
2:AA:384:U:H6	2:AA:384:U:O5'	2.04	0.40
2:AA:48:G:C2	2:AA:178:G:C6	3.09	0.40
2:AA:498:G:H8	2:AA:498:G:H3'	1.82	0.40
2:AA:49:A:N3	2:AA:51:G:N3	2.69	0.40
2:AA:518:G:C4	2:AA:519:U:C5	3.09	0.40
2:AA:542:C:C4	2:AA:552:G:N2	2.89	0.40
2:AA:563:G:H2'	25:A1:37:GLN:OE1	2.20	0.40
2:AA:628:G:N1	2:AA:629:G:C6	2.89	0.40
2:AA:654:A:C2	2:AA:655:A:H3'	2.56	0.40
2:AA:656:G:C8	2:AA:656:G:P	3.13	0.40
2:AA:687:C:H2'	2:AA:688:U:O4'	2.19	0.40
2:AA:688:U:O2'	2:AA:689:A:O4'	2.34	0.40
2:AA:729:G:C4	2:AA:729:G:C3'	2.97	0.40
2:AA:817:C:C2	2:AA:1191:G:N2	2.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:825:C:H2'	2:AA:826:U:C6	2.56	0.40
2:AA:880:G:H3'	2:AA:880:G:C8	2.56	0.40
2:AA:929:G:C2'	23:AX:43:ILE:CG1	2.99	0.40
2:AA:933:A:C6	2:AA:934:G:C8	3.08	0.40
2:AA:955:C:C2	2:AA:962:G:N2	2.76	0.40
1:AB:113:C:H2'	1:AB:114:G:O4'	2.20	0.40
1:AB:68:C:C3'	1:AB:69:G:H8	2.29	0.40
3:AC:200:LYS:CA	3:AC:208:PHE:HZ	2.34	0.40
3:AC:5:LYS:O	3:AC:6:ARG:CB	2.69	0.40
3:AC:76:ALA:HA	3:AC:114:VAL:CG2	2.50	0.40
5:AE:304:ASP:N	5:AE:304:ASP:OD1	2.53	0.40
5:AE:79:ARG:HA	5:AE:186:GLU:N	2.37	0.40
6:AF:163:HIS:O	6:AF:166:ILE:CB	2.67	0.40
7:AG:64:ARG:O	7:AG:66:GLY:N	2.52	0.40
7:AG:56:ARG:HG2	7:AG:65:GLU:HB2	2.03	0.40
7:AG:76:ARG:O	7:AG:77:ASP:O	2.38	0.40
8:AH:141:GLY:O	8:AH:144:ALA:HB3	2.21	0.40
8:AH:88:LEU:HD23	8:AH:88:LEU:C	2.42	0.40
9:AI:78:ARG:NH1	9:AI:85:LEU:HB3	2.35	0.40
9:AJ:73:VAL:CA	9:AJ:121:ALA:HB1	2.34	0.40
9:AJ:127:LEU:H	9:AJ:127:LEU:HD23	1.86	0.40
9:AJ:50:GLY:HA2	9:AJ:53:GLN:OE1	2.21	0.40
9:AJ:92:VAL:O	9:AJ:95:ALA:CB	2.69	0.40
10:AK:43:ASN:HA	10:AK:46:ALA:CB	2.51	0.40
10:AK:47:LEU:HD11	10:AK:48:GLU:OE1	2.21	0.40
11:AL:117:ASN:ND2	11:AL:127:ILE:HG12	2.36	0.40
11:AL:28:LEU:CD1	11:AL:33:VAL:HG21	2.42	0.40
11:AL:15:ALA:HB1	11:AL:50:ALA:HA	2.02	0.40
11:AL:56:VAL:HG12	11:AL:57:VAL:N	2.36	0.40
11:AL:97:VAL:HA	11:AL:99:LYS:NZ	2.36	0.40
15:AP:28:ILE:HD13	15:AP:62:GLU:OE2	2.20	0.40
18:AS:11:ARG:C	18:AS:12:ILE:CG1	2.90	0.40
19:AT:28:VAL:HG22	19:AT:62:LYS:O	2.21	0.40
21:AV:123:VAL:CA	21:AV:161:ALA:H	2.29	0.40
21:AV:66:VAL:CG1	21:AV:66:VAL:O	2.68	0.40
23:AX:43:ILE:HD13	23:AX:43:ILE:H	1.77	0.40
36:B1:46:A:H3'	36:B1:47:U:C5'	2.52	0.40
36:B1:65:U:HO2'	36:B1:66:G:H8	1.60	0.40
34:BA:1006:C:OP2	34:BA:1006:C:C5	2.74	0.40
34:BA:1011:G:C5	34:BA:1012:U:C6	3.09	0.40
34:BA:1021:G:H2'	34:BA:1022:G:C4'	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1102:A:O2'	37:BE:98:LEU:HD12	2.22	0.40
34:BA:1139:G:OP2	34:BA:1139:G:H4'	2.21	0.40
34:BA:128:G:C8	34:BA:128:G:O5'	2.74	0.40
34:BA:1346:A:HO2'	34:BA:1347:G:P	2.40	0.40
34:BA:1406:U:O2	34:BA:1407:C:O4'	2.40	0.40
34:BA:1431:C:N3	34:BA:1432:G:H1'	2.36	0.40
34:BA:1436:U:O5'	34:BA:1436:U:H6	2.03	0.40
34:BA:1454:G:C4	34:BA:1455:G:N7	2.89	0.40
34:BA:1468:A:O5'	34:BA:1468:A:C8	2.71	0.40
34:BA:1470:G:C6	34:BA:1471:G:C5	3.10	0.40
34:BA:1490:C:H2'	34:BA:1491:G:C5'	2.51	0.40
34:BA:150:C:H2'	34:BA:151:A:O5'	2.21	0.40
34:BA:815:A:N3	34:BA:1529:G:C2	2.89	0.40
34:BA:129(A):G:C2'	34:BA:190(E):U:C6	2.98	0.40
34:BA:20:U:C2	34:BA:21:G:C5	3.09	0.40
34:BA:258:G:C4	34:BA:259:G:C8	3.09	0.40
34:BA:292:G:OP2	34:BA:293:G:N7	2.54	0.40
34:BA:360:A:N1	34:BA:361:G:C4	2.89	0.40
34:BA:401:C:H2'	34:BA:402:G:C8	2.54	0.40
34:BA:460:A:C6	34:BA:462:G:C4	3.08	0.40
34:BA:560:U:O5'	34:BA:566:G:N2	2.55	0.40
34:BA:579:G:C8	34:BA:579:G:O5'	2.68	0.40
34:BA:598:U:O4'	43:BK:94:TYR:CD2	2.62	0.40
34:BA:663:A:N6	34:BA:664:G:C6	2.89	0.40
34:BA:689:C:N3	34:BA:690:G:C4	2.89	0.40
34:BA:823:G:C8	34:BA:823:G:H3'	2.56	0.40
34:BA:828:A:H5'	34:BA:859:A:N1	2.36	0.40
34:BA:859:A:N7	34:BA:860:A:C8	2.88	0.40
34:BA:905:U:H6	34:BA:905:U:O5'	2.03	0.40
34:BA:980:C:C4	34:BA:981:U:C2	3.09	0.40
34:BA:986:A:C6	34:BA:987:G:C6	3.09	0.40
35:BB:60:C:OP1	35:BB:61:C:C6	2.74	0.40
2:AA:1924:C:H4'	35:BC:13:C:O2'	2.21	0.40
35:BC:37:G:C4	35:BC:38:A:C8	3.09	0.40
37:BE:165:VAL:CG2	37:BE:166:ASP:H	2.26	0.40
37:BE:80:ILE:CD1	37:BE:211:ILE:HG21	2.47	0.40
37:BE:55:PHE:HD2	37:BE:221:LEU:HB2	1.86	0.40
37:BE:35:GLU:N	37:BE:36:ARG:NH1	2.69	0.40
37:BE:42:ILE:HG12	37:BE:43:ASP:H	1.86	0.40
38:BF:32:LEU:O	38:BF:35:GLU:HB3	2.20	0.40
38:BF:43:LEU:O	38:BF:47:LEU:CD2	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BF:59:ARG:CZ	38:BF:64:VAL:CG2	2.93	0.40
39:BG:154:ASN:O	39:BG:159:ARG:NH1	2.54	0.40
39:BG:12:CYS:CA	39:BG:33:MET:HE1	2.51	0.40
39:BG:41:GLY:C	39:BG:43:HIS:H	2.24	0.40
39:BG:43:HIS:C	39:BG:45:GLN:N	2.75	0.40
39:BG:76:ARG:O	39:BG:79:PHE:CB	2.59	0.40
40:BH:106:PRO:O	40:BH:109:ILE:HG22	2.21	0.40
40:BH:147:ASP:O	40:BH:148:VAL:C	2.59	0.40
41:BI:3:ARG:HA	41:BI:66:GLU:HA	2.02	0.40
34:BA:1298:C:H2'	42:BJ:114:ARG:NH1	2.35	0.40
43:BK:26:VAL:CG2	43:BK:27:PRO:CD	2.86	0.40
43:BK:36:LEU:HD11	43:BK:59:LEU:CD2	2.51	0.40
43:BK:43:GLY:O	43:BK:44:PHE:C	2.60	0.40
43:BK:46:LYS:HD2	43:BK:63:LEU:O	2.21	0.40
43:BK:95:VAL:HG23	43:BK:99:GLU:HB2	2.04	0.40
43:BK:96:GLY:C	43:BK:97:VAL:HG12	2.40	0.40
43:BK:97:VAL:CG1	43:BK:99:GLU:HG3	2.50	0.40
44:BL:47:LEU:O	44:BL:50:LEU:N	2.53	0.40
44:BL:50:LEU:HD23	44:BL:58:ARG:HH11	1.86	0.40
45:BM:76:ASN:N	45:BM:77:PRO:HD3	2.36	0.40
45:BM:82:ILE:HG22	45:BM:82:ILE:O	2.21	0.40
46:BN:14:VAL:CG1	46:BN:14:VAL:O	2.70	0.40
46:BN:21:ILE:CG2	46:BN:30:VAL:HG22	2.48	0.40
47:BO:97:ARG:HB3	47:BO:98:TYR:CD1	2.55	0.40
48:BP:52:GLU:O	48:BP:56:LEU:CG	2.56	0.40
48:BP:53:VAL:O	48:BP:55:ARG:N	2.53	0.40
48:BP:66:LEU:C	48:BP:70:LEU:HB2	2.39	0.40
48:BP:73:GLU:CD	48:BP:74:VAL:N	2.75	0.40
49:BQ:58:LYS:HE3	49:BQ:59:ALA:O	2.22	0.40
51:BS:38:TYR:O	51:BS:49:LEU:HD12	2.20	0.40
51:BS:57:ARG:HG2	51:BS:79:VAL:HG13	2.03	0.40
51:BS:8:ARG:C	51:BS:9:PHE:CD2	2.92	0.40
54:BV:22:LEU:HD23	54:BV:25:LYS:CE	2.51	0.40
54:BV:55:LYS:HG2	54:BV:56:GLN:HE21	1.86	0.40
55:BW:72:LEU:HD13	55:BW:77:ALA:CA	2.50	0.40
56:BX:9:ARG:NH1	56:BX:21:TYR:CB	2.83	0.40
35:BB:12:U:N3	35:BB:24:G:N1	2.66	0.40
27:A3:9:SER:OG	27:A3:10:SER:N	2.54	0.40
9:AJ:55:GLU:O	9:AJ:56:LYS:CG	2.69	0.40
22:AW:14:ALA:O	22:AW:17:GLU:HB2	2.20	0.40
24:A0:26:LYS:O	24:A0:27:SER:C	2.59	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:A0:47:PHE:O	24:A0:48:VAL:C	2.60	0.40
24:A0:59:ASP:HB2	24:A0:60:LEU:HD23	2.03	0.40
25:A1:92:ARG:CA	25:A1:95:LEU:HG	2.51	0.40
26:A2:68:LYS:HA	26:A2:91:THR:HG22	2.03	0.40
27:A3:18:PRO:O	27:A3:19:LYS:HB2	2.21	0.40
27:A3:28:GLY:CA	27:A3:60:PHE:CB	2.96	0.40
29:A5:56:GLN:O	29:A5:57:VAL:CB	2.69	0.40
2:AA:1056:G:H21	2:AA:1104:C:H42	1.69	0.40
2:AA:1057:A:C4	2:AA:1058:G:N7	2.90	0.40
2:AA:1072:C:OP2	2:AA:1073:A:OP1	2.38	0.40
2:AA:1058:G:C6	2:AA:1081:U:O2	2.75	0.40
2:AA:1019:U:P	2:AA:1120:G:N2	2.95	0.40
2:AA:1140:C:N4	12:AM:49:ARG:NH1	2.69	0.40
2:AA:1186:G:C8	2:AA:1187:G:N7	2.89	0.40
2:AA:1197:G:C6	2:AA:1198:U:H5	2.30	0.40
2:AA:586:A:N1	2:AA:1254:A:C2	2.88	0.40
2:AA:1265:A:O4'	2:AA:1267:U:N3	2.54	0.40
2:AA:1364:G:C8	28:A4:3:LYS:HE2	2.56	0.40
2:AA:1387:C:O2	2:AA:1388:G:C8	2.75	0.40
2:AA:1450:C:C2	2:AA:1461:G:N2	2.77	0.40
2:AA:1472:A:C8	2:AA:1474:C:H5	2.40	0.40
2:AA:1561:G:H2'	2:AA:1562:A:O5'	2.22	0.40
2:AA:1579:A:H2'	2:AA:1580:A:C4'	2.50	0.40
2:AA:1623:G:H2'	2:AA:1624:G:H5'	2.03	0.40
2:AA:1650:G:H2'	2:AA:1651:G:O5'	2.22	0.40
2:AA:1664:A:C8	2:AA:1664:A:OP2	2.74	0.40
2:AA:1672:C:N4	2:AA:1673:U:C4	2.89	0.40
2:AA:1673:U:O2'	2:AA:1674:G:P	2.79	0.40
2:AA:1754:C:O2	2:AA:1754:C:C2'	2.67	0.40
2:AA:1768:U:C2	2:AA:1985:G:C2	3.09	0.40
2:AA:1831:G:C6	2:AA:1832:C:N4	2.89	0.40
2:AA:1914:C:N3	2:AA:1915:U:H5	2.18	0.40
2:AA:1918:A:O2'	2:AA:1919:A:N7	2.53	0.40
2:AA:2004:G:C8	2:AA:2005:A:C8	3.09	0.40
2:AA:2042:A:H2'	2:AA:2043:C:H5'	2.02	0.40
2:AA:2056:G:C2	2:AA:2057:A:N9	2.89	0.40
2:AA:2177:C:H2'	2:AA:2178:C:H6	1.81	0.40
2:AA:2190:G:C2	2:AA:2191:G:N7	2.89	0.40
2:AA:2215:G:N1	2:AA:2216:G:C6	2.89	0.40
2:AA:2256:G:N2	2:AA:2257:U:H1'	2.36	0.40
2:AA:2256:G:O5'	27:A3:5:LYS:NZ	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2277:G:C6	2:AA:2278:A:C5	3.10	0.40
2:AA:2473:U:C4	2:AA:2474:C:C4	3.09	0.40
2:AA:2528:U:O2	2:AA:2536:G:C2	2.73	0.40
2:AA:2523:G:N1	2:AA:2541:A:C2	2.90	0.40
2:AA:243:U:O4	2:AA:255:A:N7	2.54	0.40
2:AA:2588:G:O6	2:AA:2589:A:C5	2.75	0.40
2:AA:2592:G:N2	2:AA:2603:G:C5	2.90	0.40
2:AA:2681:C:HO2'	2:AA:2682:U:H6	1.67	0.40
2:AA:270(E):G:C6	2:AA:270(U):C:N4	2.87	0.40
2:AA:2743:C:O2'	2:AA:2744:G:O5'	2.38	0.40
2:AA:2746:U:O4'	8:AH:142:GLU:OE2	2.38	0.40
2:AA:2792:G:C6	2:AA:2804:C:N4	2.88	0.40
2:AA:2807:G:C2'	2:AA:2808:U:O5'	2.68	0.40
2:AA:2814:C:H2'	2:AA:2815:C:H6	1.84	0.40
2:AA:2818:G:C2	2:AA:2829:C:C4	3.09	0.40
2:AA:2853:C:H2'	2:AA:2854:G:H8	1.87	0.40
2:AA:292:C:C5	2:AA:293:U:O4	2.72	0.40
2:AA:324:A:H61	2:AA:339:U:H1'	1.62	0.40
2:AA:352:G:C5	2:AA:353:G:N7	2.89	0.40
2:AA:412:A:H2'	2:AA:413:C:C4'	2.49	0.40
2:AA:428:A:C5	2:AA:429:A:N7	2.89	0.40
2:AA:434:U:H2'	2:AA:435:C:OP2	2.20	0.40
2:AA:479:A:O2'	2:AA:480:A:C4'	2.69	0.40
2:AA:48:G:H1'	2:AA:178:G:H21	1.86	0.40
2:AA:521:G:H2'	2:AA:522:G:C8	2.57	0.40
2:AA:1545:A:H3'	2:AA:545(A):A:C8	2.56	0.40
2:AA:578:A:H2'	2:AA:579:G:H5''	2.02	0.40
2:AA:659:C:C2	2:AA:660:G:N7	2.90	0.40
2:AA:673:C:C4'	6:AF:82:GLN:OE1	2.69	0.40
2:AA:716:A:H2'	2:AA:717:G:O4'	2.21	0.40
2:AA:775:G:N2	2:AA:787:U:O2'	2.55	0.40
2:AA:777:A:H2'	2:AA:778:G:O5'	2.21	0.40
2:AA:826:U:H2'	2:AA:828:U:C2	2.56	0.40
2:AA:835:A:C6	2:AA:836:G:C5	3.08	0.40
2:AA:911:A:H8	2:AA:2264:C:C1'	2.22	0.40
2:AA:860:U:C4	2:AA:917:A:N6	2.78	0.40
2:AA:957:A:C8	2:AA:957:A:H5''	2.56	0.40
1:AB:81:G:H2'	1:AB:82:G:H5'	2.03	0.40
3:AC:164:ARG:O	3:AC:164:ARG:HG3	2.21	0.40
3:AC:200:LYS:CB	3:AC:208:PHE:CE1	3.03	0.40
3:AC:20:TYR:CD1	3:AC:222:VAL:HG13	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:24:GLU:HG2	3:AC:25:ALA:N	2.33	0.40
3:AC:29:VAL:HG21	3:AC:41:VAL:HG22	2.03	0.40
3:AC:77:ILE:CD1	3:AC:123:VAL:CG2	2.99	0.40
4:AD:90:ILE:CD1	4:AD:105:ALA:HB2	2.48	0.40
4:AD:140:VAL:O	4:AD:160:SER:OG	2.39	0.40
2:AA:2210:G:H8	4:AD:149:ARG:HH22	1.68	0.40
4:AD:164:LEU:O	4:AD:172:ILE:CG2	2.69	0.40
5:AE:80:ALA:N	5:AE:185:GLY:O	2.54	0.40
6:AF:68:ALA:C	6:AF:69:HIS:ND1	2.75	0.40
8:AH:34:ARG:HH11	8:AH:70:LEU:HD22	1.85	0.40
8:AH:36:PHE:CE2	8:AH:71:LEU:CD2	3.04	0.40
8:AH:58:LYS:HA	8:AH:61:ARG:NH1	2.36	0.40
9:AI:61:VAL:HG22	9:AI:115:LYS:CE	2.51	0.40
9:AI:72:GLN:HG2	9:AI:72:GLN:H	1.59	0.40
10:AK:43:ASN:O	10:AK:44:LEU:C	2.59	0.40
2:AA:1082:U:O4'	11:AL:118:ALA:HB2	2.21	0.40
12:AM:76:ASP:C	12:AM:80:LYS:HG2	2.37	0.40
13:AN:111:PHE:O	13:AN:114:ILE:HB	2.22	0.40
13:AN:15:GLY:HA3	13:AN:52:VAL:HG23	2.02	0.40
13:AN:17:ARG:NE	13:AN:46:ALA:C	2.74	0.40
13:AN:85:VAL:HG11	13:AN:93:PRO:HB3	2.02	0.40
14:AO:113:GLN:CB	14:AO:115:ARG:NH2	2.85	0.40
14:AO:52:LYS:HE2	14:AO:53:ARG:NH1	2.34	0.40
15:AP:116:HIS:CD2	15:AP:119:ASN:HB3	2.56	0.40
15:AP:17:ARG:CD	15:AP:17:ARG:N	2.84	0.40
16:AQ:120:GLU:HA	16:AQ:123:ILE:HG13	2.00	0.40
18:AS:19:LEU:C	29:A5:25:LEU:CD1	2.90	0.40
18:AS:59:VAL:HA	18:AS:63:ASP:CA	2.47	0.40
19:AT:47:VAL:HG11	19:AT:69:SER:HB3	2.02	0.40
20:AU:41:ARG:HD3	20:AU:111:ARG:HG3	2.03	0.40
21:AV:132:GLN:O	21:AV:133:GLU:OE2	2.40	0.40
21:AV:125:PRO:N	21:AV:159:THR:HG21	2.36	0.40
21:AV:66:VAL:HG21	21:AV:69:VAL:HG22	1.98	0.40
22:AW:12:THR:O	22:AW:16:ARG:HG3	2.21	0.40
2:AA:95:G:C1'	22:AW:42:ASN:HB3	2.50	0.40
34:BA:1102:A:C6	34:BA:1103:C:C4	3.09	0.40
34:BA:110:C:C2	34:BA:111:G:C1'	3.04	0.40
34:BA:1166:G:C2	34:BA:1168:A:P	3.15	0.40
34:BA:1157:A:N9	34:BA:1181:G:C2	2.89	0.40
34:BA:1257:U:H2'	34:BA:1258:G:OP2	2.22	0.40
34:BA:1269:A:C4	34:BA:1313:U:H1'	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1319:A:C8	34:BA:1319:A:H3'	2.56	0.40
34:BA:1352:C:C2	34:BA:1353:G:C5	3.10	0.40
34:BA:971:G:C2'	34:BA:1365:G:O2'	2.68	0.40
34:BA:1413:A:N6	34:BA:1488:G:C6	2.89	0.40
34:BA:1429:C:H2'	34:BA:1430:C:C6	2.56	0.40
34:BA:1462:G:C6	34:BA:1463:C:N4	2.89	0.40
2:AA:1702:G:O2'	34:BA:1473:A:H1'	2.22	0.40
34:BA:1474:G:C6	34:BA:1475:G:N7	2.90	0.40
34:BA:1503:A:O2'	34:BA:1504:G:P	2.77	0.40
34:BA:1516:G:C4	34:BA:1520:G:N2	2.89	0.40
34:BA:291:C:O2'	34:BA:292:G:H5'	2.21	0.40
34:BA:314:C:C2'	34:BA:315:A:C1'	2.98	0.40
34:BA:382:A:C2'	34:BA:383:A:O5'	2.69	0.40
34:BA:419:C:C2'	34:BA:420:U:H5'	2.49	0.40
34:BA:434:U:O2'	34:BA:435:C:H5'	2.21	0.40
34:BA:522:C:C6	34:BA:522:C:H3'	2.56	0.40
34:BA:538:G:O5'	47:BO:115:LYS:HG2	2.21	0.40
34:BA:570:G:H2'	34:BA:571:U:C5	2.56	0.40
34:BA:617:G:C6	34:BA:624:C:C4	3.10	0.40
34:BA:640:A:C2'	34:BA:641:U:C5'	2.84	0.40
34:BA:675:A:H2'	34:BA:676:A:O4'	2.20	0.40
34:BA:652:U:C4	34:BA:752:G:N3	2.89	0.40
34:BA:784:C:H2'	34:BA:785:G:O5'	2.21	0.40
34:BA:816:A:O2'	34:BA:817:C:OP2	2.34	0.40
34:BA:827:U:H2'	34:BA:870:U:O4	2.21	0.40
34:BA:894:G:H2'	34:BA:895:G:O4'	2.22	0.40
34:BA:943:U:C2'	34:BA:944:G:H5'	2.49	0.40
34:BA:963:G:C6	34:BA:973:G:O6	2.74	0.40
35:BC:29:A:N6	35:BC:41:U:H3	2.19	0.40
37:BE:97:TRP:NE1	37:BE:102:LEU:HD11	2.34	0.40
38:BF:188:LEU:CD1	38:BF:190:ARG:HG2	2.51	0.40
38:BF:59:ARG:HE	38:BF:59:ARG:HB2	1.56	0.40
38:BF:35:GLU:OE1	38:BF:95:THR:CG2	2.69	0.40
39:BG:110:PHE:HZ	39:BG:181:MET:O	2.04	0.40
39:BG:153:ARG:HG3	39:BG:153:ARG:H	1.54	0.40
39:BG:171:GLY:C	39:BG:173:TRP:H	2.24	0.40
42:BJ:69:VAL:HB	42:BJ:104:LEU:HD11	2.04	0.40
43:BK:1:MET:HG2	43:BK:2:LEU:N	2.36	0.40
43:BK:22:GLU:HA	43:BK:63:LEU:CG	2.50	0.40
43:BK:20:TYR:HE1	43:BK:78:GLN:NE2	2.18	0.40
43:BK:87:SER:O	43:BK:92:ARG:HD2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BL:22:GLY:N	44:BL:59:PHE:HA	2.36	0.40
44:BL:28:VAL:HG21	44:BL:32:ASP:C	2.42	0.40
44:BL:48:GLU:OE1	44:BL:51:ARG:NE	2.42	0.40
44:BL:54:ASP:O	44:BL:55:ALA:HB2	2.20	0.40
44:BL:82:ALA:HB2	44:BL:101:PHE:CD2	2.56	0.40
46:BN:20:TYR:O	46:BN:30:VAL:HA	2.21	0.40
46:BN:81:ASP:OD1	46:BN:106:LYS:CB	2.69	0.40
47:BO:117:ARG:CZ	47:BO:124:LYS:HB2	2.51	0.40
34:BA:529:G:C5	47:BO:49:ASN:ND2	2.89	0.40
47:BO:75:HIS:CG	47:BO:77:LEU:CD1	3.04	0.40
48:BP:91:ARG:O	48:BP:96:LEU:HD23	2.21	0.40
38:BF:8:ILE:CG2	49:BQ:50:LYS:O	2.68	0.40
34:BA:668:G:C2'	50:BR:46:HIS:CE1	3.05	0.40
34:BA:43:C:C5'	51:BS:12:LYS:HB3	2.43	0.40
52:BT:101:ARG:HB2	52:BT:102:GLY:H	1.73	0.40
52:BT:31:LEU:C	52:BT:32:TYR:CD2	2.94	0.40
52:BT:84:LEU:O	52:BT:85:VAL:C	2.58	0.40
46:BN:110:ASP:CB	53:BU:88:LYS:HG3	2.29	0.40
54:BV:11:VAL:CG1	54:BV:16:LEU:HD13	2.51	0.40
55:BW:50:GLU:CB	55:BW:99:LEU:HB2	2.50	0.40
10:AK:110:LEU:O	10:AK:111:ASP:O	2.40	0.40
10:AK:78:THR:HA	10:AK:144:HIS:CD2	2.55	0.40
35:BB:11:C:C2'	35:BB:12:U:O5'	2.70	0.40
18:AS:86:LEU:HD13	18:AS:87:PRO:HD3	2.02	0.40
10:AK:69:LYS:HG2	10:AK:73:GLU:OE1	2.21	0.40
40:BH:28:PHE:HE1	40:BH:49:PRO:C	2.25	0.40
40:BH:48:ALA:HB1	40:BH:53:LEU:CB	2.51	0.40
48:BP:100:GLY:O	48:BP:101:GLN:O	2.39	0.40
45:BM:12:ASP:C	45:BM:14:LYS:N	2.75	0.40
48:BP:69:GLU:O	48:BP:69:GLU:HG2	2.21	0.40
15:AP:53:PRO:O	15:AP:53:PRO:CG	2.68	0.40
24:A0:111:LEU:H	24:A0:111:LEU:HG	1.65	0.40
24:A0:73:VAL:HG12	24:A0:77:ARG:HD3	2.01	0.40
25:A1:114:ARG:O	25:A1:117:ARG:HD2	2.21	0.40
26:A2:11:GLN:HB3	26:A2:21:ARG:CZ	2.51	0.40
26:A2:88:GLN:O	26:A2:89:ASN:OD1	2.38	0.40
27:A3:65:GLY:C	27:A3:66:LYS:CE	2.90	0.40
28:A4:18:GLY:C	28:A4:19:GLN:NE2	2.75	0.40
28:A4:21:VAL:O	28:A4:22:MET:HB2	2.20	0.40
28:A4:23:GLU:HB2	28:A4:24:THR:H	1.57	0.40
28:A4:57:ASP:O	28:A4:58:LYS:C	2.60	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:A5:46:CYS:C	29:A5:48:ASN:N	2.74	0.40
31:A7:20:ALA:HA	31:A7:23:LYS:HE3	2.04	0.40
31:A7:28:ARG:C	31:A7:31:LEU:HG	2.41	0.40
32:A8:26:LYS:CD	32:A8:43:GLY:C	2.75	0.40
2:AA:1063:G:H2'	2:AA:1064:C:C5	2.56	0.40
2:AA:1087:G:O3'	2:AA:1089:G:H5'	2.21	0.40
2:AA:1097:U:C2	2:AA:1098:A:C8	3.09	0.40
2:AA:1143:A:N1	2:AA:1144:G:C5	2.89	0.40
2:AA:1160:G:N7	2:AA:1161:C:N4	2.70	0.40
2:AA:1180:C:C2	2:AA:1181:C:C5	3.09	0.40
2:AA:1180:C:O2'	2:AA:1181:C:P	2.80	0.40
2:AA:1202:C:H1'	2:AA:1244:G:H22	1.84	0.40
2:AA:1309:G:HO2'	2:AA:1310:G:H5'	1.84	0.40
2:AA:1326:U:C6	2:AA:1326:U:OP2	2.73	0.40
2:AA:131:G:N2	2:AA:132:G:C5	2.90	0.40
2:AA:1370:C:C4	2:AA:1371:G:C8	3.09	0.40
2:AA:1407:C:C2'	2:AA:1408:C:O5'	2.69	0.40
2:AA:1499:C:O2'	2:AA:1500:G:C5'	2.70	0.40
2:AA:1560:G:C6	2:AA:1561:G:C4	3.09	0.40
2:AA:1582:C:N3	2:AA:1583:A:N3	2.68	0.40
2:AA:1615:C:H5	2:AA:1617:C:C4	2.39	0.40
2:AA:1764:G:C2'	2:AA:1765:C:O5'	2.70	0.40
2:AA:1779:U:O2	2:AA:1783:A:N6	2.55	0.40
2:AA:1825:A:N6	2:AA:1826:G:O6	2.54	0.40
2:AA:1854:A:H2'	2:AA:1855:G:C5'	2.42	0.40
2:AA:1904:G:H2'	2:AA:1905:C:C5'	2.51	0.40
2:AA:1950:G:C6	2:AA:1951:U:C5	2.97	0.40
2:AA:1995:U:H5	2:AA:1996:C:C5	2.31	0.40
2:AA:2074:U:O2'	2:AA:2598:A:C1'	2.69	0.40
2:AA:2075:U:N3	2:AA:2238:G:N1	2.70	0.40
2:AA:2090:G:H2'	2:AA:2091:U:C5	2.56	0.40
2:AA:2093:G:C8	2:AA:2225:A:C5	3.10	0.40
2:AA:2122:U:C2'	2:AA:2123:G:C5'	2.94	0.40
2:AA:2125:G:OP1	3:AC:108:MET:CE	2.70	0.40
2:AA:2179:C:H6	2:AA:2179:C:O5'	2.03	0.40
2:AA:2224:G:C3'	2:AA:2224:G:C8	3.05	0.40
2:AA:1889:A:C2	2:AA:2234:G:H1'	2.56	0.40
2:AA:858:U:C2'	2:AA:2268:A:O2'	2.70	0.40
2:AA:2295:C:H2'	2:AA:2296:U:H4'	2.03	0.40
2:AA:2341:G:C6	2:AA:2342:C:N4	2.89	0.40
2:AA:2415:G:C2	2:AA:2416:C:N1	2.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2449:U:P	2:AA:2449:U:O4'	2.76	0.40
2:AA:2466:C:O2	2:AA:2485:G:N3	2.54	0.40
2:AA:2472:G:C3'	2:AA:2475:C:H42	2.30	0.40
2:AA:23:G:C2'	2:AA:24:G:C5'	2.84	0.40
2:AA:252:G:H21	2:AA:253:C:H1'	1.86	0.40
2:AA:2556:C:HO2'	2:AA:2557:G:H5'	1.85	0.40
2:AA:2560:C:H42	2:AA:2561:A:N6	2.20	0.40
2:AA:2507:C:C4	2:AA:2582:G:N2	2.84	0.40
2:AA:2583:G:O5'	2:AA:2583:G:H8	2.04	0.40
2:AA:2588:G:C3'	2:AA:2589:A:H5'	2.51	0.40
2:AA:270(M):U:O3'	2:AA:270(N):G:C4'	2.69	0.40
2:AA:2736:G:C6	2:AA:2737:G:C6	3.08	0.40
2:AA:273(D):C:C2'	2:AA:273(E):U:C5'	2.94	0.40
2:AA:2742:C:O2	2:AA:2742:C:C2'	2.69	0.40
2:AA:2759:G:O2'	2:AA:2760:C:H5'	2.22	0.40
2:AA:2776:A:N7	2:AA:2782:G:C8	2.89	0.40
2:AA:2627:G:O2'	2:AA:2781:A:N1	2.52	0.40
2:AA:2791:C:H5	2:AA:2807:G:N1	2.19	0.40
2:AA:279:C:C6	2:AA:279:C:C3'	3.05	0.40
2:AA:2867:G:H4'	2:AA:2868:A:O5'	2.22	0.40
2:AA:2878:U:O2'	2:AA:2879:C:P	2.79	0.40
2:AA:107:C:O3'	2:AA:293:U:O2	2.39	0.40
2:AA:306:U:C5	2:AA:307:G:C4	3.09	0.40
2:AA:398:G:N3	2:AA:399:G:H1'	2.36	0.40
2:AA:41:C:C2	2:AA:43:G:C8	3.09	0.40
2:AA:461:C:N3	2:AA:468:G:C6	2.90	0.40
2:AA:552:G:HO2'	2:AA:553:U:H5'	1.81	0.40
2:AA:581:C:H2'	2:AA:582:G:H8	1.82	0.40
2:AA:602:G:C4'	2:AA:603:A:O2'	2.67	0.40
2:AA:609:A:N1	2:AA:619:G:C2	2.90	0.40
2:AA:696:G:C4	2:AA:697:C:C5	3.09	0.40
2:AA:751:A:N1	2:AA:789:A:N6	2.70	0.40
2:AA:793:A:C2'	2:AA:794:G:OP2	2.69	0.40
2:AA:850:C:O2	2:AA:850:C:H2'	2.21	0.40
2:AA:858:U:C6	2:AA:858:U:C3'	3.05	0.40
2:AA:868:U:O2	2:AA:909:A:N1	2.54	0.40
1:AB:24:G:H4'	1:AB:25:A:C8	2.56	0.40
1:AB:24:G:C2'	1:AB:25:A:OP2	2.69	0.40
1:AB:62:C:O2	1:AB:63:G:C8	2.75	0.40
1:AB:69:G:C2	1:AB:70:C:C5	3.09	0.40
1:AB:89:G:N2	1:AB:89(A):A:N1	2.70	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:104:LEU:HD22	3:AC:126:LYS:CE	2.51	0.40
3:AC:149:ILE:HG23	3:AC:150:GLY:N	2.35	0.40
3:AC:190:ARG:O	3:AC:193:ILE:N	2.54	0.40
3:AC:19:ILE:CD1	3:AC:223:ARG:HG2	2.51	0.40
4:AD:202:LYS:O	4:AD:204:PHE:CE1	2.74	0.40
2:AA:1566:A:C2	4:AD:212:HIS:CA	3.04	0.40
4:AD:78:ALA:CB	4:AD:94:ASN:HD21	2.32	0.40
4:AD:85:ASN:HB2	4:AD:86:ARG:CZ	2.51	0.40
2:AA:2617:C:O2'	5:AE:245:ARG:NH1	2.54	0.40
5:AE:69:PRO:C	5:AE:70:VAL:HG23	2.42	0.40
8:AH:11:PRO:O	8:AH:14:VAL:HB	2.22	0.40
8:AH:12:ALA:C	8:AH:14:VAL:N	2.75	0.40
8:AH:158:GLY:O	8:AH:159:LYS:HB3	2.19	0.40
8:AH:37:HIS:C	8:AH:40:MET:SD	2.99	0.40
8:AH:88:LEU:CD1	8:AH:95:ALA:HB3	2.43	0.40
9:AI:115:LYS:HZ1	9:AI:127:LEU:HD13	1.79	0.40
9:AJ:113:GLU:O	9:AJ:116:LYS:HB2	2.20	0.40
10:AK:11:GLY:O	10:AK:12:LYS:HB2	2.20	0.40
2:AA:2093:G:O2'	10:AK:29:PHE:CZ	2.67	0.40
11:AL:112:LYS:O	11:AL:114:PRO:CD	2.70	0.40
11:AL:38:PHE:HD2	11:AL:58:ILE:HG21	1.86	0.40
12:AM:52:GLN:CG	12:AM:55:GLU:OE2	2.68	0.40
12:AM:56:LYS:O	12:AM:59:LYS:N	2.55	0.40
13:AN:46:ALA:N	13:AN:54:LYS:HE2	2.36	0.40
15:AP:94:ARG:CD	15:AP:106:GLY:HA2	2.52	0.40
15:AP:146:THR:O	15:AP:147:VAL:O	2.39	0.40
15:AP:45:GLN:OE1	15:AP:152:SER:HB3	2.20	0.40
15:AP:28:ILE:CG2	15:AP:62:GLU:HG2	2.51	0.40
16:AQ:38:LYS:NZ	16:AQ:114:LYS:CB	2.84	0.40
16:AQ:114:LYS:O	16:AQ:115:VAL:C	2.60	0.40
2:AA:2378:A:C2'	16:AQ:26:LEU:HD21	2.51	0.40
1:AB:28:C:OP2	16:AQ:42:HIS:NE2	2.54	0.40
16:AQ:47:LEU:HD12	16:AQ:58:LEU:HD23	2.02	0.40
16:AQ:46:GLN:CB	16:AQ:57:THR:HG21	2.51	0.40
16:AQ:87:LEU:HD22	16:AQ:87:LEU:N	2.36	0.40
18:AS:54:ALA:O	18:AS:57:ASN:HB3	2.21	0.40
18:AS:88:ARG:CB	18:AS:91:GLY:H	2.35	0.40
19:AT:18:MET:CA	19:AT:24:LEU:HA	2.51	0.40
19:AT:8:PRO:HA	19:AT:26:PHE:HD2	1.87	0.40
19:AT:57:THR:O	19:AT:59:ASP:CG	2.60	0.40
20:AU:15:PRO:C	20:AU:18:GLU:H	2.19	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AU:50:VAL:O	20:AU:57:GLY:N	2.55	0.40
20:AU:74:VAL:HG12	20:AU:76:ASP:H	1.87	0.40
20:AU:81:LYS:NZ	20:AU:83:ASP:HB2	2.37	0.40
21:AV:127:PRO:C	21:AV:129:ARG:N	2.73	0.40
21:AV:51:LEU:HD11	21:AV:64:ALA:CA	2.46	0.40
21:AV:72:ASP:OD2	21:AV:79:ILE:N	2.51	0.40
22:AW:60:GLN:OE1	22:AW:61:GLY:N	2.54	0.40
23:AX:4:LEU:O	23:AX:36:VAL:HA	2.22	0.40
34:BA:1003:G:N2	34:BA:3(A):G:C5	2.90	0.40
34:BA:1087:G:H1	34:BA:1098:C:H42	1.70	0.40
34:BA:1175:G:C2	34:BA:1176:A:C5	3.10	0.40
34:BA:1178:G:OP2	34:BA:1178:G:C8	2.74	0.40
34:BA:1244:C:N3	34:BA:1293:G:N2	2.47	0.40
34:BA:1270:C:O3'	34:BA:1314:C:H5'	2.21	0.40
34:BA:132:C:H2'	34:BA:133:U:C6	2.57	0.40
34:BA:1381:U:C2'	34:BA:1382:C:O5'	2.61	0.40
34:BA:1384:C:C2	34:BA:1385:G:C8	3.10	0.40
34:BA:791:G:H21	34:BA:1497:G:C5'	2.34	0.40
34:BA:142:G:C6	34:BA:222:U:C4	3.09	0.40
34:BA:223:U:C2	34:BA:224:C:C5	3.09	0.40
34:BA:27:G:C8	34:BA:27:G:OP2	2.74	0.40
34:BA:285:G:N1	34:BA:286:G:C5	2.89	0.40
34:BA:321:A:N7	34:BA:328:C:C4	2.90	0.40
34:BA:59:A:O2'	34:BA:388:G:H5'	2.22	0.40
34:BA:392:G:C2	34:BA:393:A:N9	2.89	0.40
34:BA:409:G:C4	34:BA:410:G:N7	2.89	0.40
34:BA:446:G:O2'	34:BA:447:G:H5'	2.21	0.40
34:BA:523:A:C5'	34:BA:523:A:H8	2.34	0.40
34:BA:39:G:N7	34:BA:547:A:H8	2.19	0.40
34:BA:560:U:C6	34:BA:566:G:N3	2.90	0.40
34:BA:58:C:C2	34:BA:59:A:C8	3.09	0.40
34:BA:601:C:N3	34:BA:637:G:O6	2.55	0.40
34:BA:609:A:O2'	34:BA:610:G:H5'	2.21	0.40
34:BA:660:G:O2'	34:BA:661:G:O4'	2.32	0.40
34:BA:66:G:O2'	34:BA:67:C:H5'	2.22	0.40
34:BA:696:A:H2'	34:BA:697:U:O5'	2.21	0.40
34:BA:729:A:C2	34:BA:730:G:C4	3.09	0.40
34:BA:773:G:N1	34:BA:774:G:N7	2.69	0.40
34:BA:794:A:C2	34:BA:795:C:C4	3.09	0.40
34:BA:771:G:N1	34:BA:808:C:O2	2.44	0.40
34:BA:962:C:H2'	34:BA:963:G:C5'	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:6:U:N3	35:BB:7:U:C6	2.90	0.40
37:BE:84:GLU:OE2	37:BE:87:ARG:NH2	2.54	0.40
38:BF:157:ILE:HD12	38:BF:164:ARG:CD	2.50	0.40
38:BF:30:ARG:HD3	49:BQ:36:PHE:O	2.21	0.40
38:BF:60:ALA:O	38:BF:61:ALA:HB2	2.21	0.40
39:BG:16:GLY:O	39:BG:17:VAL:C	2.59	0.40
39:BG:177:ASP:OD2	39:BG:179:GLU:CG	2.70	0.40
39:BG:172:PRO:CG	39:BG:193:ASP:HB2	2.51	0.40
39:BG:42:GLN:O	39:BG:43:HIS:ND1	2.54	0.40
39:BG:53:ASP:OD1	39:BG:53:ASP:N	2.38	0.40
39:BG:79:PHE:C	39:BG:79:PHE:CD1	2.92	0.40
42:BJ:106:GLN:HE21	42:BJ:106:GLN:HB2	1.50	0.40
43:BK:31:PHE:CD2	43:BK:32:LYS:N	2.89	0.40
43:BK:28:ALA:HB2	43:BK:57:PRO:C	2.42	0.40
43:BK:63:LEU:H	43:BK:63:LEU:HD22	1.86	0.40
34:BA:1232:U:P	44:BL:126:SER:HB3	2.61	0.40
44:BL:38:GLN:C	44:BL:40:LEU:HG	2.35	0.40
46:BN:45:GLY:HA3	46:BN:55:LYS:HD2	2.03	0.40
46:BN:50:TYR:O	46:BN:55:LYS:HG3	2.22	0.40
46:BN:70:LYS:O	46:BN:73:MET:HB2	2.20	0.40
47:BO:78:GLN:HB2	47:BO:81:SER:OG	2.20	0.40
48:BP:14:ARG:CD	48:BP:41:PRO:O	2.66	0.40
49:BQ:17:LYS:CG	49:BQ:18:VAL:N	2.76	0.40
34:BA:750:G:C2	50:BR:23:GLY:O	2.74	0.40
51:BS:39:TYR:CZ	51:BS:41:PRO:CG	2.83	0.40
52:BT:17:LYS:HA	52:BT:17:LYS:HE2	2.03	0.40
52:BT:10:VAL:HG23	52:BT:55:ASP:HB2	2.02	0.40
34:BA:255:G:P	52:BT:69:LYS:NZ	2.95	0.40
52:BT:9:VAL:CG1	52:BT:84:LEU:HD12	2.45	0.40
52:BT:95:TYR:C	52:BT:97:SER:H	2.25	0.40
53:BU:63:GLN:O	53:BU:66:LEU:CD1	2.69	0.40
34:BA:1319:A:OP1	54:BV:70:LYS:HE2	2.21	0.40
55:BW:63:ILE:HG12	55:BW:72:LEU:CD1	2.50	0.40
35:BB:29:A:C6	35:BB:42:G:N1	2.89	0.40
1:AB:12:C:H5"	27:A3:53:MET:SD	2.62	0.40
47:BO:127:GLU:O	47:BO:127:GLU:CD	2.60	0.40
37:BE:135:GLN:CA	37:BE:139:LYS:HE3	2.50	0.40
36:B1:20:A:C2	36:B1:35:C:C2	3.10	0.40
45:BM:46:ARG:HD3	45:BM:64:GLU:CB	2.49	0.40
24:A0:14:SER:O	24:A0:15:SER:C	2.59	0.40
24:A0:52:ILE:CG2	24:A0:94:TYR:CD1	3.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A1:16:LYS:O	25:A1:17:VAL:C	2.60	0.40
25:A1:36:PHE:O	25:A1:39:LEU:CB	2.70	0.40
25:A1:42:ALA:O	25:A1:45:TYR:CB	2.64	0.40
25:A1:44:THR:HG1	26:A2:77:GLY:C	2.21	0.40
2:AA:1152:C:OP1	25:A1:84:LYS:HD2	2.22	0.40
26:A2:49:GLU:N	26:A2:49:GLU:OE1	2.55	0.40
26:A2:78:VAL:O	26:A2:79:GLN:C	2.60	0.40
28:A4:10:VAL:N	28:A4:11:PRO:CD	2.85	0.40
29:A5:31:THR:CG2	29:A5:42:SER:HA	2.47	0.40
30:A6:48:VAL:O	30:A6:50:PHE:HE1	2.04	0.40
31:A7:30:ILE:CB	31:A7:33:ARG:HD2	2.51	0.40
32:A8:15:LYS:CA	32:A8:16:ILE:HD12	2.51	0.40
2:AA:1091:G:C2	2:AA:1101:U:N3	2.89	0.40
2:AA:1138:G:OP1	12:AM:82:THR:CG2	2.59	0.40
2:AA:1024:G:C2	2:AA:1139:G:C2	3.08	0.40
2:AA:1168:G:H2'	2:AA:1169:G:C4'	2.50	0.40
2:AA:116:C:H1'	2:AA:127:A:H1'	2.04	0.40
2:AA:1181:C:H2'	2:AA:1182:A:C8	2.53	0.40
2:AA:10:G:N2	2:AA:11:G:C4	2.89	0.40
2:AA:1261:C:C2	2:AA:1262:A:C8	3.10	0.40
2:AA:1265:A:C8	2:AA:1267:U:C4	3.10	0.40
2:AA:1364:G:C8	2:AA:1364:G:C5'	2.99	0.40
2:AA:1342:A:O4'	2:AA:1397:U:O2'	2.39	0.40
2:AA:1471:A:C5	2:AA:1472:A:N3	2.89	0.40
2:AA:1560:G:C5	2:AA:1561:G:C5	3.10	0.40
2:AA:1569:A:C2	2:AA:1570:A:C4	3.10	0.40
2:AA:1649:G:N2	24:A0:107:ASP:HA	2.36	0.40
2:AA:1661:G:C2'	2:AA:1662:C:O5'	2.70	0.40
2:AA:1673:U:O2'	2:AA:1674:G:C5'	2.70	0.40
2:AA:1684:C:H2'	2:AA:1685:C:C5	2.57	0.40
2:AA:1693:U:H4'	2:AA:1694:C:OP2	2.22	0.40
2:AA:1717:G:C8	2:AA:1743:G:N1	2.90	0.40
2:AA:1765:C:H2'	2:AA:1766:U:C6	2.52	0.40
2:AA:1793:C:N3	2:AA:1794:U:C5	2.90	0.40
2:AA:1364:G:C4'	2:AA:1809:A:N7	2.83	0.40
2:AA:1812:A:C2	2:AA:1813:G:C1'	3.05	0.40
2:AA:1818:U:C2'	2:AA:1818:U:O2	2.67	0.40
2:AA:1845:G:H2'	2:AA:1846:G:C5'	2.52	0.40
2:AA:1861:G:H5'	3:AC:205:LYS:NZ	2.36	0.40
2:AA:1878:G:O2'	2:AA:1879:C:C5'	2.63	0.40
2:AA:1930:G:H8	2:AA:1930:G:H3'	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:202:U:C6	2:AA:202:U:C3'	3.04	0.40
2:AA:2082:A:N6	2:AA:2239:G:O6	2.55	0.40
2:AA:207:A:N1	2:AA:208:C:C2	2.89	0.40
2:AA:2097:C:C5	2:AA:2193:G:N1	2.90	0.40
2:AA:2111:C:H5	2:AA:2120:G:C4'	2.34	0.40
2:AA:2135:A:N6	2:AA:2150:U:H2'	2.37	0.40
2:AA:2139:C:O2	2:AA:2139:C:C2'	2.68	0.40
2:AA:2135:A:O2'	2:AA:2154:G:O6	2.36	0.40
2:AA:215:G:H4'	2:AA:216:A:C4'	2.52	0.40
2:AA:2383:G:H2'	2:AA:2384:G:C8	2.57	0.40
2:AA:2397:G:H22	2:AA:2420:C:C1'	2.30	0.40
2:AA:389:G:C8	2:AA:2413:G:H4'	2.56	0.40
2:AA:2495:G:H8	2:AA:2495:G:O5'	2.04	0.40
2:AA:962:G:H4'	2:AA:2496:C:O2'	2.21	0.40
2:AA:2603:G:C4	2:AA:2604:U:C6	3.10	0.40
2:AA:2653:U:N3	2:AA:2654:A:C6	2.90	0.40
2:AA:2696:U:O2'	2:AA:2697:G:C5'	2.70	0.40
2:AA:270(J):G:C2	2:AA:270(K):C:H1'	2.55	0.40
2:AA:271(C):U:C4'	2:AA:271:G:H5'	2.51	0.40
2:AA:2725:A:O2'	2:AA:2726:U:O5'	2.32	0.40
2:AA:2779:U:H4'	2:AA:2781:A:N7	2.33	0.40
2:AA:2786:U:H2'	2:AA:2787:C:O4'	2.22	0.40
2:AA:2817:G:C5	2:AA:2818:G:C8	3.10	0.40
2:AA:31:C:H2'	2:AA:31:C:O2	2.21	0.40
2:AA:285:C:N3	2:AA:356:G:N1	2.69	0.40
2:AA:35:G:N9	2:AA:454:A:N3	2.69	0.40
2:AA:363(B):G:H2'	2:AA:363(C):G:O4'	2.22	0.40
2:AA:424:G:N2	2:AA:425:G:C1'	2.84	0.40
2:AA:466:A:H2'	2:AA:467:G:C4'	2.51	0.40
2:AA:476:G:N2	2:AA:478:A:H3'	2.36	0.40
2:AA:627:A:H2	2:AA:638:G:N2	2.16	0.40
2:AA:687:C:C2'	2:AA:688:U:O4'	2.69	0.40
2:AA:699:A:C8	2:AA:700:G:C8	3.09	0.40
2:AA:735:A:N7	2:AA:736:C:C6	2.90	0.40
2:AA:800:A:C8	2:AA:802:A:H5'	2.57	0.40
2:AA:806:C:P	2:AA:806:C:C6	3.15	0.40
2:AA:671:C:C4	2:AA:809:G:N1	2.81	0.40
2:AA:824:A:N1	2:AA:834:C:N3	2.70	0.40
2:AA:826:U:OP1	2:AA:2428:G:H3'	2.20	0.40
2:AA:872:A:O3'	15:AP:31:PHE:HB2	2.20	0.40
2:AA:894:C:H3'	2:AA:895:U:H5	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:13:A:C2	1:AB:69:G:N2	2.68	0.40
1:AB:2:C:C2	1:AB:3:C:C5	3.09	0.40
1:AB:75:G:O6	1:AB:76:G:C2	2.75	0.40
1:AB:7:G:C6	1:AB:114:G:C6	3.10	0.40
3:AC:133:PRO:HG2	3:AC:134:ARG:HH11	1.86	0.40
3:AC:61:THR:CG2	3:AC:162:GLU:HG2	2.52	0.40
3:AC:171:ILE:HG21	3:AC:196:LEU:CD2	2.52	0.40
4:AD:141:HIS:C	4:AD:143:ILE:H	2.12	0.40
4:AD:205:VAL:HG23	4:AD:206:LYS:HG3	2.04	0.40
4:AD:208:GLY:C	4:AD:210:LYS:N	2.75	0.40
5:AE:211:GLN:HG3	5:AE:215:LYS:HE2	2.03	0.40
5:AE:299:SER:O	5:AE:300:VAL:C	2.59	0.40
5:AE:69:PRO:O	5:AE:70:VAL:CG2	2.66	0.40
6:AF:142:ASP:H	6:AF:237:GLU:CD	2.25	0.40
6:AF:223:LEU:C	6:AF:225:PRO:CD	2.89	0.40
6:AF:193:LEU:CA	6:AF:233:THR:HB	2.51	0.40
6:AF:56:THR:O	6:AF:79:ARG:HG3	2.22	0.40
6:AF:80:VAL:O	6:AF:87:ARG:HG2	2.22	0.40
7:AG:56:ARG:CD	35:BC:56:C:H1'	2.52	0.40
8:AH:102:LEU:HD12	8:AH:104:LEU:CD2	2.51	0.40
8:AH:88:LEU:HD13	8:AH:127:GLN:O	2.22	0.40
8:AH:7:PRO:HD2	8:AH:68:ARG:HD3	2.03	0.40
8:AH:8:ILE:O	8:AH:49:ILE:CD1	2.63	0.40
9:AI:101:VAL:CG1	9:AI:104:SER:HB3	2.50	0.40
9:AI:113:GLU:O	9:AI:116:LYS:HB2	2.21	0.40
9:AI:81:THR:OG1	9:AI:83:LEU:HG	2.22	0.40
9:AJ:62:VAL:HG13	9:AJ:100:ALA:HB3	2.04	0.40
9:AI:42:ALA:CB	9:AJ:42:ALA:HB2	2.46	0.40
9:AJ:86:LYS:NZ	11:AL:10:LYS:CD	2.82	0.40
11:AL:116:LEU:HD11	11:AL:124:ALA:HA	2.02	0.40
14:AO:120:LEU:HG	14:AO:122:ALA:CB	2.52	0.40
15:AP:142:LYS:CG	15:AP:143:VAL:H	2.20	0.40
16:AQ:20:TYR:CG	16:AQ:21:HIS:N	2.89	0.40
16:AQ:23:ARG:HG3	16:AQ:33:ARG:CZ	2.52	0.40
16:AQ:83:LEU:H	16:AQ:83:LEU:HD12	1.86	0.40
13:AN:78:ARG:HD3	17:AR:21:PHE:HE1	1.87	0.40
18:AS:24:ILE:O	18:AS:25:ARG:O	2.40	0.40
20:AU:20:HIS:C	20:AU:22:GLN:N	2.72	0.40
20:AU:51:LEU:C	20:AU:51:LEU:HD22	2.42	0.40
21:AV:94:VAL:O	21:AV:122:ILE:HA	2.21	0.40
21:AV:62:PHE:C	21:AV:85:MET:SD	3.00	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:92:VAL:O	21:AV:124:ALA:CB	2.67	0.40
22:AW:8:ILE:O	22:AW:11:MET:N	2.54	0.40
34:BA:1012:U:N3	34:BA:1013:G:C6	2.90	0.40
34:BA:1058:G:H2'	34:BA:1059:C:H6	1.86	0.40
34:BA:1079:G:O2'	40:BH:14:ARG:NH2	2.52	0.40
34:BA:1090:U:O2'	34:BA:1091:U:O4'	2.34	0.40
34:BA:1099:G:H2'	34:BA:1100:C:O5'	2.22	0.40
34:BA:109:A:N7	34:BA:326:G:C2	2.89	0.40
34:BA:1206:G:C5	34:BA:1207:G:C5	3.10	0.40
34:BA:1210:C:C5	34:BA:1211:U:C4	3.09	0.40
34:BA:1263:C:C4	34:BA:1264:C:N4	2.89	0.40
34:BA:129(A):G:C8	34:BA:190(E):U:OP1	2.74	0.40
34:BA:129(A):G:O2'	34:BA:130:A:P	2.79	0.40
34:BA:1308:U:H3'	48:BP:99:ARG:CZ	2.38	0.40
34:BA:1326:C:H5''	56:BX:19:GLY:HA3	2.02	0.40
34:BA:1329:A:N1	34:BA:1330:U:C2	2.90	0.40
34:BA:945:G:N1	34:BA:1337:G:C6	2.90	0.40
34:BA:1376:U:C6	34:BA:1376:U:O5'	2.74	0.40
34:BA:1410:G:C6	34:BA:1411:C:N4	2.90	0.40
34:BA:1428:A:C6	34:BA:1429:C:C4	3.10	0.40
34:BA:1508:G:H2'	34:BA:1509:C:H6	1.87	0.40
34:BA:150:C:O2	34:BA:151:A:C8	2.75	0.40
34:BA:1517:G:N1	34:BA:1518:A:C4	2.89	0.40
34:BA:1531:A:OP2	34:BA:1531:A:O4'	2.39	0.40
34:BA:192:U:O2	34:BA:193:C:C5	2.74	0.40
34:BA:246:A:C6	34:BA:279:A:C4	3.10	0.40
34:BA:263:A:H2'	34:BA:264:U:C5'	2.51	0.40
34:BA:253:U:N3	34:BA:274:A:C2	2.89	0.40
34:BA:339:C:O2'	34:BA:340:U:C5'	2.68	0.40
34:BA:377:G:H2'	34:BA:378:G:N7	2.37	0.40
34:BA:377:G:C6	34:BA:378:G:O6	2.74	0.40
34:BA:40:C:N4	34:BA:403:C:N4	2.69	0.40
34:BA:455:C:C2	34:BA:478:A:C2	3.10	0.40
34:BA:455:C:O2	34:BA:455:C:C2'	2.70	0.40
34:BA:404:U:O2	34:BA:498:U:O4	2.40	0.40
34:BA:560:U:N3	34:BA:566:G:O4'	2.55	0.40
34:BA:579:G:C2	34:BA:580:U:C6	3.10	0.40
34:BA:582:U:N3	34:BA:583:A:C8	2.89	0.40
34:BA:5:U:O4	39:BG:86:LYS:HD3	2.21	0.40
34:BA:622:A:H3'	34:BA:623:C:H5	1.86	0.40
34:BA:628:G:O2'	34:BA:629:G:O4'	2.33	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:657:G:C4'	50:BR:28:GLN:OE1	2.69	0.40
34:BA:717:C:O2'	34:BA:718:G:P	2.79	0.40
34:BA:754:C:H3'	34:BA:754:C:O2	2.22	0.40
34:BA:921:U:O2	34:BA:921:U:C2'	2.69	0.40
34:BA:959:A:H1'	34:BA:985:C:O4'	2.20	0.40
34:BA:988:G:C4	34:BA:989:C:C6	3.09	0.40
35:BB:34:G:N1	35:BB:35:A:C6	2.89	0.40
35:BB:55:U:O2	35:BB:57:G:N7	2.54	0.40
37:BE:99:GLY:C	37:BE:101:MET:H	2.25	0.40
38:BF:13:GLY:C	38:BF:14:ILE:CG1	2.88	0.40
38:BF:121:ALA:HB2	38:BF:198:VAL:HG21	2.02	0.40
39:BG:190:ASP:C	39:BG:194:LEU:HD23	2.41	0.40
39:BG:50:ARG:HD3	39:BG:51:PRO:N	2.36	0.40
40:BH:102:ALA:CB	40:BH:120:THR:O	2.69	0.40
40:BH:43:LEU:HB2	40:BH:136:MET:SD	2.62	0.40
42:BJ:29:LYS:NZ	42:BJ:102:ARG:NH2	2.69	0.40
42:BJ:28:ASN:O	42:BJ:31:MET:HB3	2.22	0.40
34:BA:1367:C:OP2	44:BL:117:HIS:ND1	2.55	0.40
44:BL:23:ASN:O	44:BL:59:PHE:O	2.39	0.40
44:BL:47:LEU:HD12	44:BL:51:ARG:NH1	2.37	0.40
44:BL:19:LEU:HD23	44:BL:60:ASP:O	2.20	0.40
44:BL:82:ALA:HB2	44:BL:101:PHE:CE2	2.56	0.40
44:BL:52:ALA:O	44:BL:95:LYS:HE3	2.21	0.40
45:BM:49:VAL:HG13	49:BQ:41:ARG:HB2	2.03	0.40
45:BM:3:LYS:CG	45:BM:75:ILE:HG23	2.51	0.40
46:BN:78:GLN:O	46:BN:104:GLN:HB3	2.22	0.40
46:BN:79:SER:HA	46:BN:104:GLN:CG	2.49	0.40
46:BN:24:SER:O	46:BN:88:GLY:HA2	2.22	0.40
47:BO:85:ILE:CG1	47:BO:98:TYR:HB3	2.47	0.40
48:BP:8:GLU:C	48:BP:10:PRO:CD	2.90	0.40
49:BQ:26:ARG:HG2	49:BQ:27:CYS:N	2.36	0.40
50:BR:39:LEU:HD13	50:BR:56:LEU:CD1	2.49	0.40
52:BT:60:ILE:CD1	52:BT:62:SER:CB	3.00	0.40
52:BT:7:THR:CG2	52:BT:56:VAL:HG12	2.51	0.40
53:BU:26:LEU:HD21	53:BU:29:PHE:CE1	2.57	0.40
53:BU:73:ALA:HB1	53:BU:79:LEU:HG	2.03	0.40
54:BV:72:GLY:C	54:BV:74:PHE:N	2.74	0.40
55:BW:89:ARG:HB2	55:BW:104:LEU:HD11	2.02	0.40
10:AK:113:ARG:O	10:AK:114:LYS:O	2.39	0.40
40:BH:39:GLY:HA2	40:BH:69:VAL:HG23	2.04	0.40
3:AC:177:LYS:HB2	3:AC:180:PHE:HB2	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AX:58:VAL:O	23:AX:59:VAL:HG22	2.22	0.40
6:AF:59:GLU:HB2	6:AF:61:PHE:HE2	1.80	0.40
2:AA:1283:G:N2	2:AA:1285:G:C3'	2.84	0.40
37:BE:127:ILE:HG22	37:BE:128:GLU:H	1.85	0.40
53:BU:34:TYR:HE1	53:BU:35:ARG:HG3	1.80	0.40
3:AC:194:ARG:HG3	3:AC:194:ARG:NH1	2.36	0.40
24:A0:33:ARG:HA	24:A0:115:GLU:HA	2.04	0.40
24:A0:73:VAL:CG1	24:A0:77:ARG:NE	2.79	0.40
25:A1:81:ASN:O	25:A1:82:GLY:C	2.57	0.40
26:A2:35:LEU:H	26:A2:60:VAL:CG1	2.21	0.40
27:A3:41:ARG:C	27:A3:42:GLY:O	2.59	0.40
27:A3:35:ASN:H	27:A3:72:LYS:NZ	2.19	0.40
27:A3:80:SER:O	27:A3:81:ILE:HD12	2.21	0.40
28:A4:58:LYS:HB3	28:A4:62:ARG:HH21	1.87	0.40
2:AA:16:G:O4'	29:A5:18:MET:HE3	2.21	0.40
2:AA:1085:A:C2'	2:AA:1086:A:O4'	2.66	0.40
2:AA:1138:G:P	12:AM:57:TYR:OH	2.80	0.40
2:AA:1414:G:C5	2:AA:1415:U:C4	3.10	0.40
2:AA:139:G:C8	2:AA:141(A):C:O2	2.74	0.40
2:AA:1434:A:C6	2:AA:1560:G:C2	3.10	0.40
2:AA:1438:U:H6	2:AA:1438:U:C5'	2.34	0.40
2:AA:1530:G:H1'	2:AA:1542:G:O6	2.20	0.40
2:AA:1628:G:N2	2:AA:1629:U:N3	2.69	0.40
2:AA:1708:C:H2'	2:AA:1708:C:O2	2.22	0.40
2:AA:1717:G:C5	2:AA:1743:G:N1	2.90	0.40
2:AA:1777:U:N3	2:AA:1778:U:C5	2.89	0.40
2:AA:48:G:N3	2:AA:178:G:N2	2.69	0.40
2:AA:1832:C:N4	2:AA:1833:U:C4	2.89	0.40
2:AA:1848:A:C2	34:BA:702:A:N6	2.90	0.40
2:AA:1886:C:C2	2:AA:1887:C:C5	3.09	0.40
2:AA:1930:G:H2'	2:AA:1968:G:O6	2.20	0.40
2:AA:195:A:N7	2:AA:197:A:OP2	2.55	0.40
2:AA:2003:G:N1	2:AA:2004:G:C2	2.90	0.40
2:AA:2029:G:H2'	2:AA:2030:A:H3'	2.04	0.40
2:AA:2120:G:H3'	2:AA:2121:G:H8	1.86	0.40
2:AA:2139:C:C2	2:AA:2152:G:N1	2.81	0.40
2:AA:221:A:N6	2:AA:266:G:N7	2.69	0.40
2:AA:2236:C:C4	2:AA:2237:G:C5	3.09	0.40
2:AA:2259:G:C4	2:AA:2427:C:C4	3.09	0.40
2:AA:2287:A:C6	2:AA:2289:G:N9	2.90	0.40
2:AA:2320:A:C2	2:AA:2333:A:N3	2.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2331:G:C5	2:AA:2332:U:C2	3.09	0.40
2:AA:2355:C:O2'	27:A3:21:LEU:HD13	2.22	0.40
2:AA:2408:U:H2'	2:AA:2409:G:O5'	2.22	0.40
2:AA:2420:C:N3	2:AA:2421:G:N7	2.70	0.40
2:AA:2436:G:C4	2:AA:2437:U:C6	3.09	0.40
2:AA:2439:A:H2'	2:AA:2439:A:N3	2.36	0.40
2:AA:2454:G:H2'	2:AA:2455:G:C5'	2.50	0.40
2:AA:248:G:C2	2:AA:2431:U:C5'	3.04	0.40
2:AA:2579:C:C4'	2:AA:2579:C:C6	3.04	0.40
2:AA:2606:C:N3	2:AA:2607:G:N7	2.69	0.40
2:AA:2617:C:H2'	2:AA:2618:G:C5'	2.52	0.40
2:AA:2022:U:C3'	2:AA:2617:C:H5''	2.49	0.40
2:AA:2640:G:OP1	12:AM:73:LYS:HD2	2.20	0.40
2:AA:2740:A:C8	2:AA:2741:A:N7	2.90	0.40
2:AA:2745:C:O2'	8:AH:142:GLU:CG	2.69	0.40
2:AA:2749:A:C1'	8:AH:62:ALA:CB	2.85	0.40
2:AA:2808:U:C3'	2:AA:2810:A:OP1	2.67	0.40
2:AA:2840:C:H5''	24:A0:53:HIS:NE2	2.36	0.40
2:AA:290:G:N1	2:AA:350:U:C4	2.90	0.40
2:AA:293:U:C2'	2:AA:294:A:C8	2.86	0.40
2:AA:30:G:OP1	25:A1:8:ILE:CD1	2.70	0.40
2:AA:387:U:C5'	2:AA:388:G:OP1	2.65	0.40
2:AA:398:G:N3	2:AA:399:G:C1'	2.84	0.40
2:AA:408:G:C4	2:AA:409:C:C6	3.10	0.40
2:AA:47:C:O2	2:AA:179:G:C2	2.74	0.40
2:AA:592:G:C2	2:AA:593:G:N9	2.89	0.40
2:AA:616:A:OP2	6:AF:42:ARG:NH2	2.54	0.40
2:AA:689:A:H2'	2:AA:690:G:H5''	2.02	0.40
2:AA:698:C:C6	2:AA:698:C:C4'	3.04	0.40
2:AA:702:G:H1	2:AA:730:C:H42	1.69	0.40
2:AA:713:G:N2	2:AA:714:U:H1'	2.35	0.40
2:AA:769:G:C4	2:AA:770:G:C8	3.09	0.40
2:AA:785:G:C4	2:AA:786:C:C5	3.08	0.40
2:AA:821:A:H2'	2:AA:946:G:C5'	2.49	0.40
2:AA:876:C:C4	2:AA:877:U:N3	2.90	0.40
2:AA:906:G:N2	2:AA:907:U:H1'	2.37	0.40
2:AA:918:A:N3	2:AA:918:A:H5'	2.35	0.40
2:AA:979:G:C5	2:AA:982:C:N4	2.89	0.40
2:AA:986:C:O5'	2:AA:986:C:C6	2.75	0.40
2:AA:994:C:H1'	25:A1:53:LYS:HB2	2.04	0.40
2:AA:996:A:H61	2:AA:1159:U:H3	1.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:99:A:C4	1:AB:100:G:N7	2.90	0.40
1:AB:53:A:C2	1:AB:54:G:C8	3.09	0.40
1:AB:91:C:C2'	1:AB:92:G:H5'	2.52	0.40
3:AC:132:GLY:N	3:AC:133:PRO:HD3	2.36	0.40
3:AC:146:GLY:O	3:AC:148:ASN:N	2.55	0.40
3:AC:56:GLN:CB	3:AC:201:PRO:HG3	2.51	0.40
3:AC:43:VAL:O	3:AC:172:HIS:CA	2.69	0.40
4:AD:143:ILE:CD1	4:AD:143:ILE:N	2.59	0.40
4:AD:146:LYS:HA	4:AD:147:PRO:HD2	1.62	0.40
4:AD:164:LEU:HD22	4:AD:174:ARG:HH22	1.86	0.40
5:AE:109:ASP:HA	5:AE:112:LEU:CB	2.51	0.40
5:AE:217:TRP:O	5:AE:218:GLY:C	2.60	0.40
2:AA:1993:U:C4'	5:AE:228:ARG:HE	2.26	0.40
6:AF:243:VAL:O	6:AF:246:ARG:CB	2.69	0.40
6:AF:32:GLY:CA	6:AF:36:ARG:HE	2.32	0.40
7:AG:87:ALA:C	7:AG:89:PRO:N	2.74	0.40
8:AH:116:PRO:HD3	8:AH:122:ILE:CD1	2.51	0.40
8:AH:52:THR:O	8:AH:53:ARG:CD	2.68	0.40
8:AH:71:LEU:HA	8:AH:74:MET:HG3	2.02	0.40
9:AI:118:LEU:HD23	9:AI:118:LEU:N	2.37	0.40
9:AI:34:ALA:O	9:AI:35:ALA:CB	2.69	0.40
2:AA:1058:G:H21	9:AI:3:ILE:HD11	1.87	0.40
9:AJ:81:THR:OG1	9:AJ:83:LEU:HG	2.21	0.40
2:AA:2093:G:OP2	10:AK:25:TYR:CE2	2.74	0.40
10:AK:39:ALA:HA	10:AK:44:LEU:HD21	2.03	0.40
11:AL:93:LYS:CD	21:AV:108:VAL:O	2.69	0.40
2:AA:1076:C:C4'	11:AL:94:ARG:CZ	2.97	0.40
12:AM:54:VAL:CG1	12:AM:138:THR:HG21	2.52	0.40
12:AM:15:ARG:CG	12:AM:40:ASN:ND2	2.83	0.40
13:AN:121:VAL:C	13:AN:122:ILE:CG1	2.89	0.40
13:AN:17:ARG:HH21	13:AN:47:THR:HA	1.85	0.40
14:AO:64:ILE:HG22	14:AO:65:ASP:N	2.37	0.40
14:AO:74:THR:OG1	14:AO:75:LEU:N	2.55	0.40
15:AP:85:ILE:HG22	15:AP:122:PHE:CG	2.57	0.40
16:AQ:31:LYS:NZ	16:AQ:99:GLU:CB	2.65	0.40
16:AQ:35:VAL:CG1	16:AQ:37:ARG:NE	2.81	0.40
18:AS:85:VAL:CG2	18:AS:85:VAL:O	2.69	0.40
20:AU:43:ASN:HD22	20:AU:101:LEU:HD23	1.85	0.40
20:AU:20:HIS:O	20:AU:23:VAL:CA	2.69	0.40
20:AU:57:GLY:H	20:AU:97:ARG:NH2	2.20	0.40
15:AP:36:ASN:OD1	21:AV:116:VAL:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:13:LYS:HE2	21:AV:18:MET:CG	2.50	0.40
21:AV:66:VAL:CG2	21:AV:69:VAL:HG22	2.52	0.40
22:AW:2:VAL:O	22:AW:4:HIS:ND1	2.54	0.40
34:BA:1014:A:C2	54:BV:34:TRP:CH2	3.10	0.40
34:BA:1010:G:C2	34:BA:1020:U:H1'	2.56	0.40
34:BA:1127:G:O2'	34:BA:1148:U:N3	2.50	0.40
34:BA:1121:U:O4	34:BA:1152:A:N1	2.55	0.40
34:BA:1213:A:C5	34:BA:1215:G:C4	3.10	0.40
34:BA:123:C:O2'	34:BA:290:C:C1'	2.68	0.40
34:BA:1239:A:H1'	34:BA:1241:G:C4	2.57	0.40
34:BA:1248:A:C6	34:BA:1249:C:N3	2.90	0.40
34:BA:1326:C:O2'	34:BA:1327:C:H5'	2.21	0.40
34:BA:1347:G:C8	44:BL:107:ARG:HD2	2.57	0.40
34:BA:1363:A:C2	34:BA:1365:G:O6	2.74	0.40
34:BA:1405:G:C1'	34:BA:1519:A:C4'	3.00	0.40
34:BA:1500:A:OP2	34:BA:1505:G:OP2	2.39	0.40
34:BA:228:A:H2'	34:BA:229:U:O5'	2.22	0.40
34:BA:238:G:P	52:BT:25:ARG:NH1	2.95	0.40
34:BA:275:G:H2'	34:BA:276:G:O5'	2.22	0.40
34:BA:291:C:H2'	34:BA:292:G:O5'	2.21	0.40
34:BA:296:U:N3	34:BA:297:G:N7	2.70	0.40
34:BA:414:A:H2'	34:BA:415:A:O4'	2.22	0.40
34:BA:435:C:H2'	34:BA:436:C:O4'	2.21	0.40
34:BA:453:A:H2'	34:BA:454:C:H6	1.86	0.40
34:BA:459:G:N2	34:BA:462:G:N7	2.68	0.40
34:BA:462:G:C6	34:BA:463:A:C6	3.09	0.40
34:BA:440:A:N1	34:BA:495:U:C5	2.88	0.40
34:BA:646:U:N3	34:BA:647:C:C5	2.89	0.40
34:BA:671:G:C2'	34:BA:672:U:C6	2.76	0.40
34:BA:720:C:C4	34:BA:721:G:N3	2.89	0.40
34:BA:584:G:H1	34:BA:757:U:H3	1.70	0.40
34:BA:759:A:N6	34:BA:760:G:C2	2.90	0.40
34:BA:766:A:O2'	34:BA:767:A:C5'	2.69	0.40
34:BA:772:U:C2	34:BA:773:G:C8	3.10	0.40
34:BA:830:G:H2'	34:BA:831:U:C5'	2.51	0.40
34:BA:836:G:N2	34:BA:837:G:C1'	2.82	0.40
34:BA:22:G:O4'	34:BA:914:A:N6	2.55	0.40
34:BA:963:G:N1	34:BA:973:G:C6	2.89	0.40
34:BA:994:A:O5'	34:BA:994:A:C8	2.74	0.40
35:BB:20:G:O4'	35:BB:20:G:P	2.79	0.40
35:BC:36:A:O2'	35:BC:37:G:P	2.78	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BC:49:C:N3	35:BC:50:U:O4	2.54	0.40
35:BC:6:U:C2	35:BC:7:U:C5	3.09	0.40
37:BE:75:LYS:HE3	37:BE:78:GLN:NE2	2.36	0.40
37:BE:75:LYS:HG2	37:BE:78:GLN:HE22	1.81	0.40
37:BE:73:THR:HB	37:BE:95:GLN:C	2.42	0.40
38:BF:170:GLN:O	38:BF:170:GLN:CG	2.70	0.40
38:BF:196:LEU:N	38:BF:196:LEU:CD2	2.84	0.40
39:BG:23:GLY:HA2	39:BG:112:VAL:HG12	2.04	0.40
39:BG:57:ARG:HD2	39:BG:202:LEU:HD23	2.04	0.40
39:BG:83:SER:HA	39:BG:89:THR:HG1	1.75	0.40
39:BG:91:SER:O	39:BG:92:VAL:C	2.60	0.40
40:BH:51:VAL:HG12	40:BH:52:PRO:N	2.36	0.40
40:BH:76:ILE:CG2	40:BH:142:LEU:HD21	2.50	0.40
40:BH:94:ALA:O	40:BH:95:ALA:HB2	2.21	0.40
42:BJ:14:PRO:CB	42:BJ:19:GLY:C	2.87	0.40
43:BK:84:ARG:C	43:BK:135:CYS:SG	3.00	0.40
44:BL:23:ASN:C	44:BL:23:ASN:ND2	2.74	0.40
46:BN:85:ARG:CD	46:BN:113:PRO:HD3	2.52	0.40
46:BN:16:SER:HB2	46:BN:79:SER:HB3	2.03	0.40
46:BN:27:ASN:HB2	46:BN:55:LYS:CE	2.41	0.40
46:BN:48:ILE:C	46:BN:50:TYR:N	2.75	0.40
46:BN:27:ASN:HA	46:BN:55:LYS:HB3	2.03	0.40
46:BN:82:VAL:HB	46:BN:108:ILE:CG1	2.52	0.40
47:BO:68:ALA:HB1	47:BO:99:HIS:CA	2.50	0.40
47:BO:68:ALA:O	47:BO:100:ILE:HD11	2.21	0.40
47:BO:78:GLN:H	47:BO:81:SER:HB2	1.87	0.40
47:BO:24:VAL:CG2	47:BO:98:TYR:CZ	2.99	0.40
34:BA:1226:C:O3'	48:BP:111:LYS:CE	2.70	0.40
50:BR:29:VAL:HG11	50:BR:81:LEU:CD1	2.48	0.40
50:BR:36:ILE:HA	50:BR:59:MET:CE	2.51	0.40
52:BT:58:GLU:H	52:BT:58:GLU:HG3	1.70	0.40
55:BW:48:LYS:N	55:BW:48:LYS:HD2	2.37	0.40
48:BP:120:LYS:O	48:BP:121:LYS:CE	2.70	0.40
10:AK:95:SER:O	10:AK:96:LYS:C	2.59	0.40
2:AA:1506:C:N3	2:AA:1507:A:H1'	2.37	0.40
9:AI:55:GLU:O	9:AI:56:LYS:CG	2.68	0.40

All (3) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:-1:A:O2'	1:AB:-1:A:O2'[15_545]	1.59	0.61
2:AA:2153:G:O2'	34:BA:423:G:OP2[3_655]	2.16	0.04
36:B1:29:G:O3'	40:BH:5:ASP:OD2[3_655]	2.17	0.03

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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	
3	AC	217/228 (95%)	143 (66%)	36 (17%)	38 (18%)	0	4
4	AD	171/178 (96%)	71 (42%)	38 (22%)	62 (36%)	0	0
5	AE	187/338 (55%)	89 (48%)	41 (22%)	57 (30%)	0	0
6	AF	183/246 (74%)	83 (45%)	40 (22%)	60 (33%)	0	0
7	AG	118/176 (67%)	57 (48%)	29 (25%)	32 (27%)	0	0
8	AH	162/177 (92%)	89 (55%)	39 (24%)	34 (21%)	0	3
9	AI	126/128 (98%)	87 (69%)	24 (19%)	15 (12%)	0	8
9	AJ	126/128 (98%)	86 (68%)	25 (20%)	15 (12%)	0	8
10	AK	146/149 (98%)	83 (57%)	34 (23%)	29 (20%)	0	3
11	AL	131/141 (93%)	66 (50%)	33 (25%)	32 (24%)	0	2
12	AM	113/145 (78%)	48 (42%)	26 (23%)	39 (34%)	0	0
13	AN	120/122 (98%)	60 (50%)	33 (28%)	27 (22%)	0	2
14	AO	82/164 (50%)	40 (49%)	17 (21%)	25 (30%)	0	0
15	AP	136/138 (99%)	50 (37%)	43 (32%)	43 (32%)	0	0
16	AQ	111/186 (60%)	41 (37%)	32 (29%)	38 (34%)	0	0
17	AR	50/66 (76%)	19 (38%)	17 (34%)	14 (28%)	0	0
18	AS	104/113 (92%)	70 (67%)	18 (17%)	16 (15%)	0	5
19	AT	74/84 (88%)	33 (45%)	17 (23%)	24 (32%)	0	0
20	AU	108/119 (91%)	60 (56%)	25 (23%)	23 (21%)	0	3

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
21	AV	175/253 (69%)	69 (39%)	46 (26%)	60 (34%)	0	0
22	AW	62/70 (89%)	21 (34%)	25 (40%)	16 (26%)	0	1
23	AX	58/60 (97%)	29 (50%)	13 (22%)	16 (28%)	0	0
24	A0	103/118 (87%)	50 (48%)	33 (32%)	20 (19%)	0	3
25	A1	115/118 (98%)	48 (42%)	40 (35%)	27 (24%)	0	2
26	A2	98/100 (98%)	54 (55%)	18 (18%)	26 (26%)	0	1
27	A3	84/91 (92%)	32 (38%)	16 (19%)	36 (43%)	0	0
28	A4	71/73 (97%)	21 (30%)	19 (27%)	31 (44%)	0	0
29	A5	56/60 (93%)	25 (45%)	11 (20%)	20 (36%)	0	0
30	A6	51/82 (62%)	26 (51%)	8 (16%)	17 (33%)	0	0
31	A7	44/47 (94%)	14 (32%)	12 (27%)	18 (41%)	0	0
32	A8	61/64 (95%)	24 (39%)	16 (26%)	21 (34%)	0	0
33	A9	33/36 (92%)	19 (58%)	8 (24%)	6 (18%)	0	4
37	BE	232/256 (91%)	107 (46%)	58 (25%)	67 (29%)	0	0
38	BF	204/239 (85%)	113 (55%)	46 (22%)	45 (22%)	0	2
39	BG	206/209 (99%)	97 (47%)	63 (31%)	46 (22%)	0	2
40	BH	148/162 (91%)	90 (61%)	38 (26%)	20 (14%)	0	6
41	BI	99/101 (98%)	55 (56%)	24 (24%)	20 (20%)	0	3
42	BJ	153/156 (98%)	63 (41%)	49 (32%)	41 (27%)	0	1
43	BK	136/138 (99%)	67 (49%)	39 (29%)	30 (22%)	0	2
44	BL	125/128 (98%)	64 (51%)	27 (22%)	34 (27%)	0	0
45	BM	96/105 (91%)	54 (56%)	19 (20%)	23 (24%)	0	2
46	BN	117/129 (91%)	54 (46%)	33 (28%)	30 (26%)	0	1
47	BO	122/135 (90%)	65 (53%)	28 (23%)	29 (24%)	0	2
48	BP	123/126 (98%)	59 (48%)	30 (24%)	34 (28%)	0	0
49	BQ	58/61 (95%)	22 (38%)	10 (17%)	26 (45%)	0	0
50	BR	86/89 (97%)	36 (42%)	35 (41%)	15 (17%)	0	4
51	BS	81/88 (92%)	42 (52%)	24 (30%)	15 (18%)	0	3
52	BT	102/105 (97%)	62 (61%)	20 (20%)	20 (20%)	0	3
53	BU	71/88 (81%)	29 (41%)	24 (34%)	18 (25%)	0	1
54	BV	78/93 (84%)	35 (45%)	17 (22%)	26 (33%)	0	0

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
55	BW	97/106 (92%)	27 (28%)	46 (47%)	24 (25%)	0	2
56	BX	22/27 (82%)	9 (41%)	5 (23%)	8 (36%)	0	0
All	All	5832/6739 (86%)	2857 (49%)	1467 (25%)	1508 (26%)	0	1

All (1508) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
3	AC	17	ASN
3	AC	35	ALA
3	AC	54	SER
3	AC	68	LEU
3	AC	87	GLU
3	AC	117	PRO
3	AC	119	VAL
3	AC	133	PRO
3	AC	138	PRO
3	AC	140	PRO
3	AC	157	LYS
3	AC	158	ALA
3	AC	173	ALA
3	AC	200	LYS
3	AC	208	PHE
4	AD	61	TYR
4	AD	64	ILE
4	AD	66	PHE
4	AD	67	LYS
4	AD	86	ARG
4	AD	96	ALA
4	AD	106	PRO
4	AD	108	ASN
4	AD	109	LEU
4	AD	110	LYS
4	AD	112	GLY
4	AD	113	MET
4	AD	114	GLU
4	AD	115	ILE
4	AD	116	MET
4	AD	120	ASP
4	AD	122	ASP
4	AD	123	ILE
4	AD	143	ILE

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Mol	Chain	Res	Type
4	AD	147	PRO
4	AD	153	LEU
4	AD	154	VAL
4	AD	157	ALA
4	AD	168	GLY
4	AD	176	ALA
4	AD	177	SER
4	AD	185	GLY
4	AD	186	LYS
4	AD	187	CYS
4	AD	199	ARG
4	AD	205	VAL
4	AD	223	ASN
4	AD	224	VAL
4	AD	227	VAL
4	AD	233	ASP
4	AD	235	PRO
5	AE	61	PRO
5	AE	62	ARG
5	AE	67	THR
5	AE	77	PRO
5	AE	78	MET
5	AE	79	ARG
5	AE	82	ALA
5	AE	94	ARG
5	AE	102	ASP
5	AE	104	PHE
5	AE	105	HIS
5	AE	108	LEU
5	AE	190	ASN
5	AE	205	THR
5	AE	206	LYS
5	AE	214	VAL
5	AE	223	LYS
5	AE	225	LYS
5	AE	229	GLN
5	AE	233	ARG
5	AE	234	ARG
5	AE	244	SER
5	AE	251	PRO
5	AE	255	GLN
5	AE	299	SER

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Mol	Chain	Res	Type
5	AE	300	VAL
5	AE	303	PRO
5	AE	309	PRO
5	AE	315	VAL
6	AF	2	GLU
6	AF	6	TYR
6	AF	11	ASN
6	AF	21	VAL
6	AF	24	THR
6	AF	43	LYS
6	AF	56	THR
6	AF	58	ALA
6	AF	61	PHE
6	AF	82	GLN
6	AF	85	LYS
6	AF	88	SER
6	AF	90	HIS
6	AF	91	PRO
6	AF	99	SER
6	AF	102	LEU
6	AF	104	ASP
6	AF	112	ARG
6	AF	139	VAL
6	AF	161	ASP
6	AF	198	ASP
6	AF	199	GLU
6	AF	200	PRO
6	AF	202	THR
6	AF	203	ALA
6	AF	210	ALA
6	AF	211	ASP
6	AF	215	ALA
6	AF	217	GLU
7	AG	16	PRO
7	AG	18	ILE
7	AG	48	MET
7	AG	49	PRO
7	AG	55	LYS
7	AG	64	ARG
7	AG	77	ASP
7	AG	78	GLU
7	AG	100	ASP

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Mol	Chain	Res	Type
7	AG	101	THR
7	AG	128	LEU
7	AG	129	ASP
7	AG	139	TYR
7	AG	147	ALA
7	AG	150	SER
7	AG	153	THR
8	AH	11	PRO
8	AH	14	VAL
8	AH	21	ASN
8	AH	28	PRO
8	AH	37	HIS
8	AH	59	HIS
8	AH	75	VAL
8	AH	81	GLY
8	AH	109	SER
8	AH	117	GLU
8	AH	127	GLN
8	AH	138	GLN
8	AH	152	PRO
8	AH	159	LYS
9	AI	35	ALA
9	AI	56	LYS
9	AI	58	GLU
9	AJ	35	ALA
9	AJ	56	LYS
9	AJ	58	GLU
10	AK	7	LYS
10	AK	8	ASP
10	AK	9	VAL
10	AK	12	LYS
10	AK	13	GLY
10	AK	22	ALA
10	AK	23	ASP
10	AK	25	TYR
10	AK	27	ASN
10	AK	36	ALA
10	AK	39	ALA
10	AK	75	LEU
10	AK	92	SER
10	AK	111	ASP
10	AK	114	LYS

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Mol	Chain	Res	Type
10	AK	115	ILE
10	AK	124	LEU
10	AK	135	PRO
11	AL	18	ALA
11	AL	19	THR
11	AL	26	PRO
11	AL	27	ALA
11	AL	66	PHE
11	AL	67	THR
11	AL	68	PHE
11	AL	86	GLU
11	AL	87	LYS
11	AL	90	SER
11	AL	93	LYS
11	AL	97	VAL
11	AL	102	ARG
11	AL	114	PRO
11	AL	118	ALA
12	AM	5	GLU
12	AM	8	ALA
12	AM	9	ASP
12	AM	17	CYS
12	AM	47	THR
12	AM	51	GLU
12	AM	63	ILE
12	AM	67	ASN
12	AM	70	PHE
12	AM	88	PRO
12	AM	105	LEU
13	AN	14	SER
13	AN	28	SER
13	AN	30	ARG
13	AN	35	ILE
13	AN	72	PRO
13	AN	91	LYS
13	AN	96	THR
13	AN	104	ARG
13	AN	110	ASP
14	AO	55	GLN
14	AO	57	VAL
14	AO	61	ALA
14	AO	66	VAL

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Mol	Chain	Res	Type
14	AO	76	LEU
14	AO	95	ASP
14	AO	96	VAL
14	AO	100	ALA
14	AO	102	ASP
14	AO	103	ALA
14	AO	104	ASP
14	AO	105	TYR
14	AO	106	VAL
14	AO	111	ALA
14	AO	114	VAL
14	AO	129	ALA
14	AO	142	LEU
14	AO	143	THR
15	AP	23	ILE
15	AP	24	PRO
15	AP	26	LYS
15	AP	27	GLY
15	AP	30	GLN
15	AP	36	ASN
15	AP	43	PRO
15	AP	58	HIS
15	AP	105	PHE
15	AP	128	PRO
15	AP	142	LYS
15	AP	143	VAL
15	AP	147	VAL
15	AP	153	PRO
16	AQ	16	ALA
16	AQ	31	LYS
16	AQ	32	PRO
16	AQ	40	ASN
16	AQ	41	LYS
16	AQ	52	PRO
16	AQ	53	ASN
16	AQ	55	ASP
16	AQ	58	LEU
16	AQ	59	ALA
16	AQ	67	ALA
16	AQ	68	GLU
16	AQ	69	TYR
16	AQ	74	PRO

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Mol	Chain	Res	Type
16	AQ	75	THR
16	AQ	98	GLU
16	AQ	107	ASN
16	AQ	109	PRO
17	AR	6	CYS
17	AR	9	CYS
17	AR	15	PRO
17	AR	37	GLU
17	AR	46	ALA
17	AR	48	ASN
18	AS	25	ARG
18	AS	26	GLY
18	AS	40	ASN
18	AS	41	LYS
18	AS	66	GLU
18	AS	67	ASP
19	AT	2	TRP
19	AT	3	ASP
19	AT	4	VAL
19	AT	23	LYS
19	AT	29	ASP
19	AT	30	ASP
19	AT	46	ASP
19	AT	50	GLU
19	AT	68	LEU
19	AT	76	GLU
20	AU	5	ASP
20	AU	14	ALA
20	AU	24	ARG
20	AU	25	ALA
20	AU	28	SER
20	AU	30	ASP
20	AU	44	ALA
20	AU	68	ASP
20	AU	71	VAL
20	AU	77	VAL
20	AU	85	GLU
20	AU	93	THR
21	AV	3	LEU
21	AV	6	LYS
21	AV	7	PRO
21	AV	10	PRO

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Mol	Chain	Res	Type
21	AV	11	LYS
21	AV	16	GLU
21	AV	37	LYS
21	AV	40	ASP
21	AV	46	GLN
21	AV	51	LEU
21	AV	61	THR
21	AV	64	ALA
21	AV	65	LEU
21	AV	69	VAL
21	AV	72	ASP
21	AV	75	LYS
21	AV	107	GLU
21	AV	108	VAL
21	AV	143	ILE
21	AV	149	ALA
21	AV	150	GLY
21	AV	152	ILE
21	AV	167	THR
21	AV	168	VAL
22	AW	3	LEU
22	AW	4	HIS
22	AW	5	VAL
22	AW	11	MET
22	AW	12	THR
23	AX	11	SER
23	AX	13	ILE
23	AX	16	PRO
23	AX	32	GLN
23	AX	52	HIS
23	AX	53	LEU
23	AX	54	VAL
23	AX	59	VAL
24	A0	38	VAL
24	A0	59	ASP
24	A0	71	GLN
24	A0	72	ASP
24	A0	89	ASP
24	A0	90	ARG
24	A0	107	ASP
25	A1	6	THR
25	A1	7	GLY

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Mol	Chain	Res	Type
25	A1	8	ILE
25	A1	22	LYS
25	A1	24	PHE
25	A1	27	SER
25	A1	32	TYR
25	A1	86	ALA
25	A1	87	ASN
25	A1	94	VAL
26	A2	6	GLN
26	A2	11	GLN
26	A2	13	ARG
26	A2	20	ILE
26	A2	22	VAL
26	A2	28	GLU
26	A2	31	ASP
26	A2	40	VAL
26	A2	55	THR
26	A2	56	VAL
26	A2	58	ALA
26	A2	69	ILE
26	A2	71	ILE
26	A2	80	TYR
26	A2	81	ARG
26	A2	88	GLN
26	A2	90	PHE
27	A3	12	ASN
27	A3	17	ASN
27	A3	23	VAL
27	A3	27	GLY
27	A3	28	GLY
27	A3	30	VAL
27	A3	33	ALA
27	A3	36	ILE
27	A3	39	ARG
27	A3	40	GLN
27	A3	53	MET
27	A3	54	GLY
27	A3	59	LEU
27	A3	63	SER
27	A3	69	PHE
27	A3	70	ILE
27	A3	76	ALA

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Mol	Chain	Res	Type
27	A3	78	PHE
27	A3	79	ILE
28	A4	4	ASP
28	A4	6	HIS
28	A4	12	CYS
28	A4	21	VAL
28	A4	28	ARG
28	A4	29	PRO
28	A4	33	VAL
28	A4	39	VAL
28	A4	41	PRO
28	A4	52	THR
28	A4	55	ARG
28	A4	56	VAL
28	A4	58	LYS
28	A4	59	PHE
28	A4	63	PHE
29	A5	7	PRO
29	A5	9	LYS
29	A5	13	LYS
29	A5	14	SER
29	A5	30	LEU
29	A5	33	CYS
29	A5	53	ASP
29	A5	57	VAL
30	A6	9	ILE
30	A6	18	THR
30	A6	20	PHE
30	A6	21	TYR
30	A6	30	ASN
30	A6	32	GLN
30	A6	36	GLU
30	A6	48	VAL
31	A7	4	THR
31	A7	18	PHE
31	A7	35	ARG
31	A7	39	ARG
31	A7	43	THR
32	A8	14	ILE
32	A8	33	ASN
32	A8	34	THR
32	A8	36	LYS

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Mol	Chain	Res	Type
32	A8	56	ALA
32	A8	61	MET
32	A8	62	LEU
33	A9	6	SER
33	A9	9	LYS
33	A9	31	LYS
33	A9	33	LYS
37	BE	8	LYS
37	BE	13	ALA
37	BE	15	VAL
37	BE	17	PHE
37	BE	20	GLU
37	BE	22	LYS
37	BE	26	PRO
37	BE	29	ALA
37	BE	37	ASN
37	BE	42	ILE
37	BE	44	LEU
37	BE	77	ALA
37	BE	96	ARG
37	BE	104	ASN
37	BE	118	LEU
37	BE	120	ALA
37	BE	121	LEU
37	BE	124	SER
37	BE	127	ILE
37	BE	128	GLU
37	BE	149	LEU
37	BE	150	SER
37	BE	154	LEU
37	BE	161	ALA
37	BE	165	VAL
37	BE	168	THR
37	BE	171	ALA
37	BE	181	PHE
37	BE	192	SER
37	BE	194	PRO
37	BE	195	ASP
37	BE	211	ILE
37	BE	226	ARG
37	BE	229	VAL
37	BE	232	PRO

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Mol	Chain	Res	Type
38	BF	3	ASN
38	BF	4	LYS
38	BF	14	ILE
38	BF	27	LYS
38	BF	52	LEU
38	BF	53	ALA
38	BF	60	ALA
38	BF	64	VAL
38	BF	65	ALA
38	BF	79	ARG
38	BF	83	ARG
38	BF	84	ILE
38	BF	98	ASN
38	BF	119	ARG
38	BF	155	GLY
38	BF	156	ARG
38	BF	160	ALA
38	BF	164	ARG
38	BF	176	HIS
38	BF	206	GLU
39	BG	5	ILE
39	BG	17	VAL
39	BG	18	LYS
39	BG	21	LEU
39	BG	29	PRO
39	BG	56	VAL
39	BG	71	SER
39	BG	99	SER
39	BG	109	GLY
39	BG	131	ARG
39	BG	136	PRO
39	BG	141	ARG
39	BG	150	GLU
39	BG	151	LYS
39	BG	168	ARG
39	BG	199	ASN
40	BH	77	PRO
40	BH	85	GLY
40	BH	95	ALA
40	BH	109	ILE
40	BH	113	ALA
40	BH	125	SER

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Mol	Chain	Res	Type
40	BH	153	LYS
41	BI	16	GLN
41	BI	26	ILE
41	BI	42	GLU
41	BI	69	GLU
41	BI	81	ILE
41	BI	82	ARG
41	BI	83	ASP
41	BI	84	ASN
41	BI	85	VAL
41	BI	95	GLU
41	BI	96	PRO
42	BJ	5	ARG
42	BJ	6	ARG
42	BJ	7	ALA
42	BJ	10	ARG
42	BJ	14	PRO
42	BJ	31	MET
42	BJ	32	ARG
42	BJ	35	LYS
42	BJ	37	ASN
42	BJ	71	PRO
42	BJ	90	GLU
42	BJ	91	VAL
42	BJ	112	PRO
42	BJ	113	GLU
42	BJ	114	ARG
42	BJ	153	HIS
43	BK	13	ILE
43	BK	21	LYS
43	BK	24	THR
43	BK	30	ARG
43	BK	65	TYR
43	BK	70	GLN
43	BK	74	PRO
43	BK	75	ARG
43	BK	76	PRO
43	BK	78	GLN
43	BK	101	PRO
43	BK	103	VAL
43	BK	105	ARG
43	BK	121	ASP

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Mol	Chain	Res	Type
43	BK	134	ILE
44	BL	12	GLU
44	BL	52	ALA
44	BL	70	LYS
44	BL	91	ASP
44	BL	100	GLY
44	BL	103	THR
44	BL	105	ASP
44	BL	116	LYS
44	BL	117	HIS
44	BL	119	ALA
45	BM	33	GLN
45	BM	41	PRO
45	BM	55	LYS
45	BM	56	HIS
45	BM	59	SER
45	BM	60	ARG
45	BM	61	GLU
45	BM	79	ARG
46	BN	13	GLN
46	BN	27	ASN
46	BN	49	GLY
46	BN	52	GLY
46	BN	53	SER
46	BN	54	ARG
46	BN	55	LYS
46	BN	89	ALA
46	BN	104	GLN
46	BN	105	VAL
46	BN	106	LYS
46	BN	115	PRO
46	BN	117	ASN
46	BN	126	ARG
46	BN	127	LYS
47	BO	18	VAL
47	BO	19	ARG
47	BO	22	SER
47	BO	26	ALA
47	BO	30	ALA
47	BO	49	ASN
47	BO	73	GLU
47	BO	79	GLU

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Mol	Chain	Res	Type
47	BO	83	VAL
47	BO	91	LYS
47	BO	116	SER
47	BO	121	GLY
48	BP	4	ILE
48	BP	7	VAL
48	BP	11	ARG
48	BP	12	ASN
48	BP	39	ILE
48	BP	67	GLU
48	BP	84	ILE
48	BP	101	GLN
48	BP	106	ASN
48	BP	107	ALA
48	BP	114	ARG
49	BQ	13	THR
49	BQ	15	LYS
49	BQ	18	VAL
49	BQ	22	THR
49	BQ	28	GLY
49	BQ	31	ARG
49	BQ	34	TYR
49	BQ	36	PHE
49	BQ	42	ILE
49	BQ	56	VAL
50	BR	47	LYS
50	BR	82	ILE
51	BS	11	SER
51	BS	15	PRO
51	BS	24	ALA
51	BS	44	THR
51	BS	61	SER
52	BT	3	LYS
52	BT	4	LYS
52	BT	12	SER
52	BT	34	LYS
52	BT	48	GLU
52	BT	53	LEU
52	BT	68	ARG
52	BT	104	LYS
53	BU	37	VAL
53	BU	54	ARG

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Mol	Chain	Res	Type
53	BU	81	PHE
53	BU	82	THR
53	BU	83	GLU
53	BU	87	ARG
54	BV	3	ARG
54	BV	12	ASP
54	BV	28	LYS
54	BV	30	LEU
54	BV	31	ILE
54	BV	65	ASN
54	BV	71	LEU
55	BW	49	ALA
55	BW	68	LYS
55	BW	69	GLY
55	BW	74	LYS
55	BW	76	ALA
55	BW	92	LEU
55	BW	95	ALA
55	BW	101	GLY
55	BW	102	GLY
56	BX	3	LYS
56	BX	17	THR
56	BX	18	TYR
56	BX	21	TYR
3	AC	6	ARG
3	AC	36	LYS
3	AC	49	ILE
3	AC	72	VAL
3	AC	91	ALA
3	AC	118	ASP
3	AC	130	ILE
3	AC	202	GLU
3	AC	215	THR
3	AC	217	THR
3	AC	226	PRO
4	AD	78	ALA
4	AD	85	ASN
4	AD	97	ASP
4	AD	104	ILE
4	AD	117	SER
4	AD	119	PRO
4	AD	125	ILE

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Mol	Chain	Res	Type
4	AD	145	LEU
4	AD	156	ALA
4	AD	158	GLY
4	AD	201	ASP
4	AD	225	ARG
4	AD	229	MET
4	AD	236	PHE
5	AE	39	GLN
5	AE	76	PRO
5	AE	101	THR
5	AE	172	ASP
5	AE	173	ARG
5	AE	188	ALA
5	AE	196	GLY
5	AE	207	GLY
5	AE	222	ARG
5	AE	235	ILE
5	AE	241	TRP
5	AE	249	THR
5	AE	298	GLY
6	AF	12	THR
6	AF	14	GLY
6	AF	26	VAL
6	AF	38	ALA
6	AF	60	SER
6	AF	62	GLY
6	AF	64	GLY
6	AF	87	ARG
6	AF	89	ALA
6	AF	100	LEU
6	AF	101	ASP
6	AF	162	VAL
6	AF	168	ARG
6	AF	208	ALA
6	AF	212	VAL
6	AF	230	GLY
7	AG	14	ARG
7	AG	17	ARG
7	AG	28	GLY
7	AG	69	ILE
7	AG	97	GLN
7	AG	107	GLY

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Mol	Chain	Res	Type
7	AG	135	VAL
7	AG	148	SER
8	AH	12	ALA
8	AH	13	GLY
8	AH	29	LYS
8	AH	46	GLY
8	AH	58	LYS
8	AH	142	GLU
8	AH	164	GLU
8	AH	165	GLY
9	AI	30	GLY
9	AI	31	VAL
9	AI	65	SER
9	AI	100	ALA
9	AJ	30	GLY
9	AJ	31	VAL
9	AJ	36	PRO
9	AJ	65	SER
9	AJ	100	ALA
10	AK	65	ALA
10	AK	83	ALA
11	AL	15	ALA
11	AL	89	SER
11	AL	96	ILE
11	AL	103	LYS
11	AL	115	ASP
11	AL	117	ASN
12	AM	7	ASP
12	AM	15	ARG
12	AM	27	ALA
12	AM	28	GLU
12	AM	40	ASN
12	AM	41	ALA
12	AM	55	GLU
12	AM	61	VAL
12	AM	69	TYR
12	AM	87	LEU
13	AN	11	ALA
13	AN	17	ARG
13	AN	68	GLY
13	AN	89	ASP
13	AN	90	ASP

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Mol	Chain	Res	Type
13	AN	100	GLY
13	AN	113	LYS
13	AN	115	ILE
14	AO	56	LYS
14	AO	58	GLN
14	AO	117	GLU
14	AO	126	SER
14	AO	127	GLU
15	AP	10	ILE
15	AP	16	ARG
15	AP	28	ILE
15	AP	53	PRO
15	AP	59	ASN
15	AP	60	ALA
15	AP	63	ALA
15	AP	64	ALA
15	AP	73	GLN
15	AP	82	LYS
15	AP	97	ASP
15	AP	119	ASN
15	AP	146	THR
15	AP	154	ALA
15	AP	156	ASN
16	AQ	11	ARG
16	AQ	20	TYR
16	AQ	56	ASP
16	AQ	60	SER
16	AQ	123	ILE
17	AR	10	GLY
17	AR	47	ARG
17	AR	49	LEU
18	AS	29	LEU
18	AS	30	GLU
18	AS	58	ALA
18	AS	89	ALA
18	AS	93	ALA
19	AT	5	ILE
19	AT	32	ALA
19	AT	35	GLY
19	AT	57	THR
19	AT	59	ASP
20	AU	35	TYR

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Mol	Chain	Res	Type
20	AU	94	SER
21	AV	14	LEU
21	AV	26	LYS
21	AV	47	SER
21	AV	59	GLY
21	AV	112	LEU
21	AV	125	PRO
21	AV	128	ARG
21	AV	138	VAL
21	AV	151	ASP
21	AV	156	GLU
21	AV	157	GLY
22	AW	2	VAL
22	AW	46	ILE
23	AX	17	LYS
23	AX	42	ALA
24	A0	57	ARG
24	A0	58	GLY
24	A0	76	VAL
24	A0	86	ARG
25	A1	5	LYS
25	A1	9	VAL
25	A1	31	GLN
25	A1	35	ALA
25	A1	53	LYS
25	A1	62	ILE
25	A1	97	ASP
25	A1	107	LYS
26	A2	26	GLN
26	A2	32	LYS
27	A3	7	VAL
27	A3	10	SER
27	A3	25	LYS
27	A3	38	VAL
27	A3	42	GLY
27	A3	45	PHE
27	A3	74	LYS
27	A3	75	GLY
27	A3	81	ILE
28	A4	3	LYS
28	A4	14	ILE
28	A4	24	THR

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Mol	Chain	Res	Type
28	A4	53	GLU
29	A5	22	HIS
29	A5	29	ASN
29	A5	34	PRO
29	A5	37	HIS
29	A5	51	TYR
29	A5	52	TYR
30	A6	3	LYS
30	A6	4	ASP
30	A6	8	ILE
30	A6	53	LYS
31	A7	2	LYS
31	A7	3	ARG
31	A7	9	ASN
31	A7	25	LYS
31	A7	27	GLY
31	A7	29	ASN
32	A8	18	GLY
32	A8	27	SER
32	A8	29	LYS
32	A8	30	ARG
32	A8	32	GLN
32	A8	39	ASP
37	BE	11	LEU
37	BE	30	ARG
37	BE	123	ALA
37	BE	131	PRO
37	BE	136	VAL
37	BE	153	ARG
37	BE	159	PRO
37	BE	160	ASP
37	BE	167	PRO
37	BE	169	LYS
37	BE	172	ILE
37	BE	178	ARG
38	BF	22	TRP
38	BF	28	GLN
38	BF	29	TYR
38	BF	43	LEU
38	BF	61	ALA
38	BF	73	PRO
38	BF	158	GLY

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Mol	Chain	Res	Type
38	BF	179	ARG
38	BF	192	THR
39	BG	30	LYS
39	BG	35	ARG
39	BG	73	ARG
39	BG	110	PHE
39	BG	125	HIS
39	BG	153	ARG
39	BG	163	GLU
39	BG	170	VAL
39	BG	179	GLU
39	BG	189	PRO
39	BG	195	ALA
40	BH	11	ILE
40	BH	73	ASN
40	BH	96	PRO
40	BH	97	GLY
40	BH	102	ALA
40	BH	116	THR
40	BH	126	ARG
40	BH	128	PRO
40	BH	146	ALA
41	BI	15	ASP
41	BI	17	SER
41	BI	20	ALA
41	BI	43	LEU
41	BI	80	ARG
42	BJ	9	VAL
42	BJ	17	VAL
42	BJ	55	GLY
42	BJ	72	ARG
42	BJ	94	ARG
42	BJ	138	LYS
42	BJ	147	ALA
42	BJ	152	ALA
43	BK	23	SER
43	BK	41	ARG
43	BK	44	PHE
43	BK	102	ARG
44	BL	31	GLN
44	BL	39	GLY
44	BL	41	VAL

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Mol	Chain	Res	Type
44	BL	43	ALA
44	BL	44	VAL
44	BL	47	LEU
44	BL	54	ASP
44	BL	68	GLY
44	BL	71	SER
44	BL	94	ALA
44	BL	106	ALA
44	BL	118	LYS
45	BM	13	HIS
45	BM	30	SER
45	BM	39	PRO
45	BM	52	GLY
45	BM	57	LYS
45	BM	72	VAL
45	BM	77	PRO
46	BN	94	ALA
46	BN	103	LEU
46	BN	121	PRO
46	BN	124	LYS
46	BN	128	ALA
47	BO	27	LEU
47	BO	61	THR
47	BO	62	SER
47	BO	76	ASN
47	BO	87	GLY
47	BO	90	VAL
47	BO	94	PRO
47	BO	105	TYR
47	BO	115	LYS
48	BP	5	ALA
48	BP	28	ALA
48	BP	46	LYS
48	BP	54	VAL
48	BP	55	ARG
48	BP	59	TYR
48	BP	68	GLY
48	BP	103	THR
48	BP	124	PRO
49	BQ	5	ALA
49	BQ	7	ILE
49	BQ	12	ARG

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Mol	Chain	Res	Type
49	BQ	17	LYS
49	BQ	29	ARG
49	BQ	43	CYS
50	BR	11	VAL
50	BR	16	ALA
50	BR	19	PRO
50	BR	31	LEU
50	BR	68	ARG
51	BS	63	GLY
51	BS	66	PRO
52	BT	33	GLY
52	BT	83	ASP
52	BT	96	GLN
52	BT	98	LEU
53	BU	28	GLU
53	BU	34	TYR
53	BU	38	GLU
53	BU	62	GLU
53	BU	75	ILE
53	BU	84	LYS
54	BV	6	LYS
54	BV	9	VAL
54	BV	11	VAL
54	BV	16	LEU
54	BV	43	GLU
54	BV	45	VAL
54	BV	64	GLU
54	BV	68	GLY
54	BV	73	GLU
54	BV	79	THR
55	BW	50	GLU
55	BW	56	MET
55	BW	103	GLY
55	BW	105	SER
56	BX	7	ARG
3	AC	37	PHE
3	AC	106	GLY
3	AC	141	LYS
3	AC	199	HIS
4	AD	124	LYS
4	AD	127	ASN
4	AD	132	GLU

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Mol	Chain	Res	Type
4	AD	194	VAL
5	AE	84	ARG
5	AE	103	GLU
5	AE	106	SER
5	AE	179	ASP
5	AE	240	PRO
5	AE	262	THR
6	AF	23	GLU
6	AF	25	PRO
6	AF	49	ASP
6	AF	97	ASP
6	AF	155	SER
6	AF	209	GLY
6	AF	222	ASP
7	AG	12	GLU
7	AG	66	GLY
7	AG	140	ARG
8	AH	118	GLU
8	AH	169	ARG
9	AI	36	PRO
9	AI	95	ALA
9	AJ	95	ALA
10	AK	40	THR
10	AK	113	ARG
11	AL	76	SER
11	AL	113	MET
11	AL	121	LEU
12	AM	16	ASP
12	AM	26	VAL
12	AM	31	LEU
12	AM	42	GLU
12	AM	48	GLY
12	AM	50	GLU
12	AM	66	ASP
12	AM	71	TYR
12	AM	78	ILE
12	AM	92	GLN
12	AM	140	GLY
13	AN	41	ALA
13	AN	47	THR
13	AN	66	LYS
14	AO	80	ASP

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Mol	Chain	Res	Type
15	AP	96	GLN
16	AQ	15	GLU
16	AQ	19	ASP
16	AQ	27	LEU
16	AQ	108	SER
17	AR	52	THR
18	AS	44	ALA
18	AS	45	TYR
19	AT	12	GLU
19	AT	13	LYS
19	AT	14	ALA
19	AT	31	ARG
19	AT	47	VAL
20	AU	31	LEU
20	AU	69	LYS
21	AV	2	GLU
21	AV	5	ALA
21	AV	27	GLU
21	AV	48	THR
21	AV	49	THR
21	AV	70	GLN
21	AV	71	MET
21	AV	91	PRO
21	AV	93	GLU
21	AV	97	PRO
21	AV	123	VAL
21	AV	142	ASN
22	AW	6	GLN
22	AW	13	PRO
22	AW	40	PRO
23	AX	25	ALA
23	AX	51	ALA
24	A0	19	ALA
24	A0	22	ARG
24	A0	60	LEU
24	A0	74	LYS
24	A0	88	ARG
24	A0	94	TYR
25	A1	111	ASP
26	A2	8	GLY
26	A2	54	TYR
26	A2	79	GLN

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Mol	Chain	Res	Type
27	A3	19	LYS
27	A3	32	LYS
27	A3	52	GLY
28	A4	8	LYS
28	A4	49	PHE
28	A4	51	ASP
28	A4	61	LYS
29	A5	35	GLN
29	A5	42	SER
29	A5	48	ASN
30	A6	33	ALA
30	A6	34	LYS
31	A7	10	ARG
31	A7	14	LYS
31	A7	19	ARG
31	A7	23	LYS
32	A8	8	LYS
32	A8	26	LYS
32	A8	51	ALA
32	A8	58	MET
32	A8	63	PRO
33	A9	12	ASP
33	A9	21	GLY
37	BE	45	GLN
37	BE	52	GLU
37	BE	53	ARG
37	BE	88	ALA
37	BE	91	PRO
37	BE	97	TRP
37	BE	119	GLU
37	BE	152	PHE
37	BE	183	PRO
38	BF	45	LYS
38	BF	59	ARG
39	BG	42	GLN
39	BG	53	ASP
39	BG	67	ILE
39	BG	93	PHE
39	BG	181	MET
39	BG	201	GLN
40	BH	53	LEU
40	BH	104	ALA

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Mol	Chain	Res	Type
40	BH	135	THR
41	BI	34	GLY
42	BJ	13	GLN
42	BJ	127	ALA
42	BJ	129	GLU
42	BJ	146	GLU
42	BJ	150	ALA
43	BK	67	PRO
43	BK	97	VAL
44	BL	29	ASN
44	BL	38	GLN
44	BL	109	VAL
44	BL	125	TYR
45	BM	34	VAL
45	BM	90	LEU
46	BN	74	ALA
46	BN	76	GLY
46	BN	101	SER
47	BO	28	LYS
47	BO	75	HIS
47	BO	127	GLU
48	BP	3	ARG
48	BP	41	PRO
48	BP	57	ARG
48	BP	91	ARG
48	BP	118	ALA
49	BQ	9	LYS
49	BQ	16	PHE
49	BQ	20	ALA
49	BQ	21	TYR
49	BQ	27	CYS
49	BQ	48	ALA
50	BR	20	GLY
50	BR	76	GLU
51	BS	27	LYS
51	BS	81	ARG
52	BT	14	LYS
54	BV	13	ASP
54	BV	14	HIS
54	BV	27	GLU
54	BV	33	THR
54	BV	35	SER

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Mol	Chain	Res	Type
55	BW	16	HIS
55	BW	59	ALA
55	BW	82	SER
55	BW	96	GLY
55	BW	98	PRO
56	BX	9	ARG
3	AC	20	TYR
3	AC	210	ARG
4	AD	105	ALA
4	AD	210	LYS
5	AE	184	GLY
5	AE	247	ARG
6	AF	57	PRO
6	AF	63	SER
6	AF	84	VAL
6	AF	103	ASN
6	AF	154	VAL
7	AG	60	GLU
7	AG	85	GLN
7	AG	96	SER
8	AH	78	VAL
10	AK	46	ALA
10	AK	112	LYS
11	AL	72	THR
12	AM	44	ALA
12	AM	91	LYS
12	AM	108	PRO
13	AN	22	ILE
13	AN	80	ASP
13	AN	112	MET
15	AP	12	PRO
15	AP	17	ARG
15	AP	25	GLY
15	AP	44	ALA
15	AP	57	ARG
15	AP	140	TYR
15	AP	145	PRO
16	AQ	17	ARG
16	AQ	105	GLY
16	AQ	125	ALA
16	AQ	127	LEU
17	AR	51	TRP

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Mol	Chain	Res	Type
18	AS	15	ARG
18	AS	42	ARG
21	AV	8	ARG
21	AV	35	ASP
21	AV	101	THR
21	AV	104	SER
21	AV	113	VAL
21	AV	160	LEU
22	AW	36	ALA
22	AW	45	ARG
22	AW	58	THR
23	AX	30	ARG
23	AX	40	THR
23	AX	41	PRO
25	A1	45	TYR
26	A2	89	ASN
27	A3	82	GLU
28	A4	27	THR
28	A4	50	LEU
29	A5	4	HIS
29	A5	45	ILE
30	A6	17	GLY
30	A6	42	PRO
32	A8	53	ALA
37	BE	78	GLN
38	BF	12	LEU
38	BF	26	LYS
38	BF	39	ILE
38	BF	66	VAL
38	BF	109	PRO
38	BF	127	ARG
38	BF	173	VAL
38	BF	174	PRO
38	BF	177	THR
38	BF	181	ASN
39	BG	4	TYR
39	BG	33	MET
41	BI	32	ASN
41	BI	41	GLU
41	BI	72	VAL
42	BJ	33	ASP
42	BJ	93	PRO

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Mol	Chain	Res	Type
42	BJ	111	ARG
42	BJ	148	ASN
42	BJ	155	ARG
43	BK	10	LEU
43	BK	15	ASN
44	BL	55	ALA
44	BL	58	ARG
44	BL	95	LYS
44	BL	120	ARG
44	BL	126	SER
45	BM	40	LEU
45	BM	80	LYS
46	BN	45	GLY
46	BN	66	LEU
46	BN	112	THR
47	BO	47	LYS
48	BP	43	THR
48	BP	61	GLU
49	BQ	54	PRO
50	BR	36	ILE
51	BS	46	PRO
51	BS	58	TYR
51	BS	69	THR
51	BS	70	ALA
51	BS	79	VAL
52	BT	13	ASP
53	BU	43	PHE
53	BU	52	PRO
53	BU	70	ILE
53	BU	80	PRO
54	BV	20	LEU
55	BW	15	ARG
55	BW	78	ALA
55	BW	97	ALA
3	AC	57	ASN
3	AC	143	GLY
4	AD	213	LYS
5	AE	63	GLU
5	AE	83	LEU
5	AE	245	ARG
5	AE	301	PRO
5	AE	316	ARG

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Mol	Chain	Res	Type
6	AF	35	VAL
6	AF	67	GLN
7	AG	134	LEU
8	AH	91	VAL
8	AH	168	VAL
9	AI	13	LEU
9	AI	24	LYS
9	AJ	13	LEU
9	AJ	24	LYS
10	AK	33	GLN
11	AL	32	GLY
11	AL	45	GLU
11	AL	55	PRO
11	AL	75	ALA
11	AL	122	GLU
12	AM	95	ARG
13	AN	74	GLY
14	AO	110	GLY
16	AQ	29	SER
16	AQ	72	GLU
16	AQ	106	LEU
17	AR	7	ASP
17	AR	13	ILE
17	AR	14	GLU
19	AT	36	GLU
20	AU	23	VAL
20	AU	76	ASP
20	AU	81	LYS
21	AV	118	HIS
21	AV	127	PRO
21	AV	165	GLU
22	AW	57	LYS
23	AX	29	ARG
24	A0	45	ARG
24	A0	85	PRO
25	A1	36	PHE
25	A1	43	ALA
25	A1	73	GLY
25	A1	95	LEU
25	A1	116	ALA
26	A2	17	GLY
27	A3	48	GLY

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Mol	Chain	Res	Type
28	A4	5	LEU
28	A4	10	VAL
28	A4	26	SER
29	A5	5	PRO
31	A7	11	LYS
31	A7	33	ARG
32	A8	13	ARG
32	A8	19	THR
37	BE	87	ARG
37	BE	143	GLU
37	BE	177	ALA
37	BE	180	LEU
37	BE	200	ILE
38	BF	81	GLY
39	BG	13	ARG
39	BG	40	PRO
39	BG	51	PRO
39	BG	94	LEU
39	BG	101	LEU
39	BG	196	LEU
40	BH	51	VAL
42	BJ	118	VAL
42	BJ	121	ALA
42	BJ	125	MET
43	BK	2	LEU
43	BK	64	LYS
43	BK	73	ASP
43	BK	79	VAL
43	BK	129	VAL
43	BK	133	LEU
45	BM	28	ARG
46	BN	37	GLY
46	BN	65	ALA
47	BO	48	PRO
48	BP	10	PRO
48	BP	14	ARG
50	BR	10	LYS
50	BR	88	ARG
51	BS	55	ARG
52	BT	64	PRO
52	BT	65	ILE
52	BT	66	SER

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Mol	Chain	Res	Type
52	BT	88	TYR
52	BT	89	LEU
53	BU	21	LYS
54	BV	15	LEU
54	BV	25	LYS
54	BV	37	ARG
55	BW	60	GLU
55	BW	61	SER
56	BX	24	ARG
3	AC	50	ASP
3	AC	90	GLY
3	AC	187	ASP
5	AE	250	VAL
5	AE	314	ALA
8	AH	154	GLU
9	AI	84	GLY
9	AJ	84	GLY
10	AK	3	VAL
10	AK	11	GLY
11	AL	46	THR
13	AN	2	ILE
15	AP	18	GLU
15	AP	126	VAL
16	AQ	97	VAL
19	AT	17	ASP
19	AT	73	ASP
20	AU	9	LYS
20	AU	36	GLY
20	AU	100	ASP
21	AV	39	PHE
21	AV	68	ALA
22	AW	43	PRO
22	AW	56	ILE
24	A0	46	GLY
25	A1	65	ILE
26	A2	46	VAL
27	A3	67	VAL
28	A4	22	MET
37	BE	130	ARG
37	BE	209	ARG
38	BF	145	GLY
39	BG	7	PRO

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Mol	Chain	Res	Type
39	BG	47	ARG
39	BG	180	GLY
42	BJ	96	GLN
42	BJ	97	GLN
45	BM	54	PHE
46	BN	102	GLY
46	BN	123	LYS
47	BO	11	VAL
49	BQ	23	ARG
49	BQ	58	LYS
50	BR	15	PHE
50	BR	29	VAL
52	BT	47	PRO
3	AC	48	GLY
7	AG	26	GLY
8	AH	77	GLY
8	AH	111	PRO
9	AI	3	ILE
9	AJ	3	ILE
10	AK	84	GLY
12	AM	133	GLY
16	AQ	70	GLY
16	AQ	104	ILE
18	AS	91	GLY
26	A2	30	GLY
27	A3	18	PRO
28	A4	11	PRO
28	A4	40	HIS
38	BF	75	VAL
43	BK	128	GLY
47	BO	31	PRO
48	BP	15	VAL
49	BQ	55	GLY
4	AD	80	ILE
8	AH	153	PRO
12	AM	20	GLY
15	AP	76	GLY
30	A6	6	PRO
37	BE	193	ASP
37	BE	201	ILE
37	BE	230	VAL
39	BG	69	GLY

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Mol	Chain	Res	Type
39	BG	90	GLY
42	BJ	19	GLY
44	BL	21	PRO
44	BL	81	ILE
47	BO	71	PRO
48	BP	45	VAL
48	BP	85	GLY
4	AD	63	ILE
4	AD	77	VAL
4	AD	216	ALA
8	AH	51	VAL
9	AI	37	VAL
9	AI	71	ILE
11	AL	21	ALA
12	AM	33	GLY
19	AT	41	VAL
20	AU	42	VAL
21	AV	90	GLU
21	AV	136	VAL
38	BF	25	GLY
44	BL	90	PRO
45	BM	82	ILE
50	BR	12	ILE
55	BW	47	GLY
6	AF	31	ILE
8	AH	124	VAL
9	AJ	71	ILE
10	AK	98	ILE
13	AN	49	GLY
15	AP	100	GLY
15	AP	117	GLY
15	AP	144	THR
16	AQ	111	PRO
25	A1	26	GLY
27	A3	68	VAL
31	A7	38	GLY
42	BJ	81	GLY
48	BP	17	VAL
48	BP	53	VAL
53	BU	79	LEU
4	AD	163	VAL
8	AH	150	VAL

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Mol	Chain	Res	Type
9	AJ	37	VAL
13	AN	48	PRO
45	BM	76	ASN
56	BX	19	GLY

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	
3	AC	174/180 (97%)	144 (83%)	30 (17%)	2	17
4	AD	135/139 (97%)	90 (67%)	45 (33%)	0	2
5	AE	156/284 (55%)	114 (73%)	42 (27%)	0	5
6	AF	152/193 (79%)	121 (80%)	31 (20%)	1	11
7	AG	102/147 (69%)	74 (72%)	28 (28%)	0	4
8	AH	137/147 (93%)	99 (72%)	38 (28%)	0	4
9	AI	98/98 (100%)	89 (91%)	9 (9%)	11	43
9	AJ	98/98 (100%)	89 (91%)	9 (9%)	11	43
10	AK	119/119 (100%)	96 (81%)	23 (19%)	2	13
11	AL	108/113 (96%)	91 (84%)	17 (16%)	3	22
12	AM	95/121 (78%)	71 (75%)	24 (25%)	1	6
13	AN	101/101 (100%)	74 (73%)	27 (27%)	0	5
14	AO	67/126 (53%)	51 (76%)	16 (24%)	1	7
15	AP	110/110 (100%)	73 (66%)	37 (34%)	0	2
16	AQ	89/149 (60%)	58 (65%)	31 (35%)	0	2
17	AR	44/52 (85%)	24 (54%)	20 (46%)	0	0
18	AS	88/92 (96%)	65 (74%)	23 (26%)	0	5
19	AT	67/73 (92%)	48 (72%)	19 (28%)	0	3
20	AU	97/105 (92%)	75 (77%)	22 (23%)	1	8
21	AV	151/203 (74%)	109 (72%)	42 (28%)	0	4

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles		
22	AW	51/56 (91%)	36 (71%)	15 (29%)	0	3	
23	AX	52/52 (100%)	34 (65%)	18 (35%)	0	2	
24	A0	89/101 (88%)	59 (66%)	30 (34%)	0	2	
25	A1	96/97 (99%)	67 (70%)	29 (30%)	0	3	
26	A2	79/79 (100%)	60 (76%)	19 (24%)	1	7	
27	A3	64/67 (96%)	46 (72%)	18 (28%)	0	4	
28	A4	66/66 (100%)	50 (76%)	16 (24%)	1	7	
29	A5	51/53 (96%)	38 (74%)	13 (26%)	1	6	
30	A6	46/69 (67%)	35 (76%)	11 (24%)	1	7	
31	A7	39/40 (98%)	30 (77%)	9 (23%)	1	8	
32	A8	50/51 (98%)	33 (66%)	17 (34%)	0	2	
33	A9	34/35 (97%)	30 (88%)	4 (12%)	6	32	
37	BE	202/220 (92%)	152 (75%)	50 (25%)	1	6	
38	BF	160/188 (85%)	127 (79%)	33 (21%)	1	10	
39	BG	180/181 (99%)	136 (76%)	44 (24%)	1	7	
40	BH	115/123 (94%)	66 (57%)	49 (43%)	0	0	
41	BI	90/90 (100%)	64 (71%)	26 (29%)	0	3	
42	BJ	126/127 (99%)	106 (84%)	20 (16%)	3	21	
43	BK	119/119 (100%)	73 (61%)	46 (39%)	0	0	
44	BL	98/99 (99%)	81 (83%)	17 (17%)	2	17	
45	BM	88/92 (96%)	70 (80%)	18 (20%)	1	11	
46	BN	90/99 (91%)	70 (78%)	20 (22%)	1	9	
47	BO	104/111 (94%)	85 (82%)	19 (18%)	2	15	
48	BP	100/101 (99%)	80 (80%)	20 (20%)	1	12	
49	BQ	49/50 (98%)	41 (84%)	8 (16%)	3	20	
50	BR	79/80 (99%)	59 (75%)	20 (25%)	1	6	
51	BS	72/74 (97%)	44 (61%)	28 (39%)	0	0	
52	BT	96/97 (99%)	74 (77%)	22 (23%)	1	8	
53	BU	64/77 (83%)	47 (73%)	17 (27%)	0	5	
54	BV	71/80 (89%)	59 (83%)	12 (17%)	2	19	
55	BW	76/82 (93%)	53 (70%)	23 (30%)	0	3	

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
56	BX	19/22 (86%)	17 (90%)	2 (10%)	8 37
All	All	4903/5528 (89%)	3677 (75%)	1226 (25%)	1 6

All (1226) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	AC	8	ARG
3	AC	10	LEU
3	AC	20	TYR
3	AC	21	THR
3	AC	36	LYS
3	AC	55	ASP
3	AC	61	THR
3	AC	70	LYS
3	AC	101	GLN
3	AC	104	LEU
3	AC	105	ASP
3	AC	108	MET
3	AC	117	PRO
3	AC	126	LYS
3	AC	137	LEU
3	AC	138	PRO
3	AC	141	LYS
3	AC	144	THR
3	AC	165	ASN
3	AC	167	LYS
3	AC	168	THR
3	AC	180	PHE
3	AC	187	ASP
3	AC	197	GLU
3	AC	199	HIS
3	AC	208	PHE
3	AC	210	ARG
3	AC	213	TYR
3	AC	215	THR
3	AC	222	VAL
4	AD	60	GLN
4	AD	62	ARG
4	AD	64	ILE
4	AD	65	ASP
4	AD	66	PHE
4	AD	67	LYS

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Mol	Chain	Res	Type
4	AD	68	ARG
4	AD	70	LYS
4	AD	73	ILE
4	AD	79	THR
4	AD	82	TYR
4	AD	84	PRO
4	AD	85	ASN
4	AD	86	ARG
4	AD	110	LYS
4	AD	113	MET
4	AD	114	GLU
4	AD	115	ILE
4	AD	119	PRO
4	AD	125	ILE
4	AD	129	LEU
4	AD	130	PRO
4	AD	131	LEU
4	AD	139	LEU
4	AD	141	HIS
4	AD	143	ILE
4	AD	144	GLU
4	AD	145	LEU
4	AD	152	GLN
4	AD	164	LEU
4	AD	169	LYS
4	AD	173	VAL
4	AD	174	ARG
4	AD	175	LEU
4	AD	180	VAL
4	AD	181	ARG
4	AD	201	ASP
4	AD	204	PHE
4	AD	206	LYS
4	AD	209	ASN
4	AD	222	PRO
4	AD	223	ASN
4	AD	227	VAL
4	AD	235	PRO
4	AD	236	PHE
5	AE	41	PHE
5	AE	49	THR
5	AE	63	GLU

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Mol	Chain	Res	Type
5	AE	65	MET
5	AE	67	THR
5	AE	69	PRO
5	AE	71	THR
5	AE	75	THR
5	AE	77	PRO
5	AE	86	TYR
5	AE	87	GLU
5	AE	98	GLU
5	AE	102	ASP
5	AE	104	PHE
5	AE	106	SER
5	AE	109	ASP
5	AE	174	LEU
5	AE	175	ASP
5	AE	179	ASP
5	AE	187	HIS
5	AE	192	ILE
5	AE	194	ARG
5	AE	200	ASP
5	AE	204	VAL
5	AE	205	THR
5	AE	211	GLN
5	AE	214	VAL
5	AE	221	LYS
5	AE	222	ARG
5	AE	226	HIS
5	AE	228	ARG
5	AE	235	ILE
5	AE	258	TYR
5	AE	262	THR
5	AE	263	GLU
5	AE	269	ILE
5	AE	270	ASP
5	AE	294	THR
5	AE	304	ASP
5	AE	308	VAL
5	AE	309	PRO
5	AE	310	PHE
6	AF	1	MET
6	AF	21	VAL
6	AF	30	LEU

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Mol	Chain	Res	Type
6	AF	36	ARG
6	AF	39	GLN
6	AF	42	ARG
6	AF	45	ASP
6	AF	50	GLU
6	AF	54	LEU
6	AF	56	THR
6	AF	57	PRO
6	AF	80	VAL
6	AF	82	GLN
6	AF	84	VAL
6	AF	85	LYS
6	AF	90	HIS
6	AF	94	THR
6	AF	101	ASP
6	AF	102	LEU
6	AF	103	ASN
6	AF	107	ARG
6	AF	142	ASP
6	AF	158	GLU
6	AF	167	ASP
6	AF	200	PRO
6	AF	217	GLU
6	AF	219	ASN
6	AF	222	ASP
6	AF	233	THR
6	AF	238	SER
6	AF	245	GLU
7	AG	10	PHE
7	AG	11	HIS
7	AG	12	GLU
7	AG	19	GLU
7	AG	21	VAL
7	AG	22	VAL
7	AG	23	VAL
7	AG	24	HIS
7	AG	39	ASP
7	AG	45	THR
7	AG	49	PRO
7	AG	56	ARG
7	AG	57	THR
7	AG	65	GLU

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Mol	Chain	Res	Type
7	AG	67	ASP
7	AG	77	ASP
7	AG	85	GLN
7	AG	92	GLU
7	AG	93	LEU
7	AG	100	ASP
7	AG	104	PHE
7	AG	106	PHE
7	AG	130	VAL
7	AG	132	VAL
7	AG	133	ASN
7	AG	136	ARG
7	AG	149	ARG
7	AG	153	THR
8	AH	10	ILE
8	AH	15	THR
8	AH	22	THR
8	AH	37	HIS
8	AH	40	MET
8	AH	48	VAL
8	AH	49	ILE
8	AH	53	ARG
8	AH	57	GLU
8	AH	66	THR
8	AH	70	LEU
8	AH	76	GLU
8	AH	83	GLU
8	AH	86	LEU
8	AH	87	GLU
8	AH	101	LYS
8	AH	102	LEU
8	AH	104	LEU
8	AH	105	SER
8	AH	108	TYR
8	AH	110	HIS
8	AH	113	GLU
8	AH	115	GLU
8	AH	117	GLU
8	AH	120	LEU
8	AH	121	GLU
8	AH	127	GLN
8	AH	131	ILE

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Mol	Chain	Res	Type
8	AH	136	ASP
8	AH	137	LYS
8	AH	142	GLU
8	AH	152	PRO
8	AH	157	LYS
8	AH	161	ILE
8	AH	163	TYR
8	AH	164	GLU
8	AH	167	LEU
8	AH	170	LEU
9	AI	4	ASP
9	AI	36	PRO
9	AI	37	VAL
9	AI	60	ASP
9	AI	80	ILE
9	AI	90	ASP
9	AI	99	ASP
9	AI	118	LEU
9	AI	127	LEU
9	AJ	4	ASP
9	AJ	36	PRO
9	AJ	37	VAL
9	AJ	60	ASP
9	AJ	80	ILE
9	AJ	90	ASP
9	AJ	99	ASP
9	AJ	118	LEU
9	AJ	127	LEU
10	AK	5	PHE
10	AK	6	LEU
10	AK	8	ASP
10	AK	18	ILE
10	AK	19	LYS
10	AK	23	ASP
10	AK	25	TYR
10	AK	29	PHE
10	AK	37	ILE
10	AK	61	GLU
10	AK	69	LYS
10	AK	70	GLU
10	AK	75	LEU
10	AK	79	ILE

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Mol	Chain	Res	Type
10	AK	112	LYS
10	AK	119	ASP
10	AK	126	TYR
10	AK	129	VAL
10	AK	132	LYS
10	AK	136	GLU
10	AK	141	LEU
10	AK	146	THR
10	AK	148	GLN
11	AL	11	LEU
11	AL	28	LEU
11	AL	36	MET
11	AL	41	ARG
11	AL	42	PHE
11	AL	45	GLU
11	AL	48	ASP
11	AL	55	PRO
11	AL	61	TYR
11	AL	63	ASP
11	AL	74	PRO
11	AL	96	ILE
11	AL	104	GLN
11	AL	107	GLU
11	AL	117	ASN
11	AL	129	GLU
11	AL	135	MET
12	AM	5	GLU
12	AM	6	PHE
12	AM	7	ASP
12	AM	17	CYS
12	AM	19	MET
12	AM	21	ARG
12	AM	28	GLU
12	AM	39	VAL
12	AM	47	THR
12	AM	51	GLU
12	AM	54	VAL
12	AM	61	VAL
12	AM	62	ASP
12	AM	67	ASN
12	AM	74	ARG
12	AM	76	ASP

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Mol	Chain	Res	Type
12	AM	79	PHE
12	AM	88	PRO
12	AM	100	SER
12	AM	105	LEU
12	AM	107	ASN
12	AM	110	ASP
12	AM	136	SER
12	AM	139	LEU
13	AN	3	GLN
13	AN	5	GLU
13	AN	6	SER
13	AN	7	ARG
13	AN	8	LEU
13	AN	9	LYS
13	AN	10	VAL
13	AN	13	ASN
13	AN	23	LYS
13	AN	35	ILE
13	AN	47	THR
13	AN	51	VAL
13	AN	52	VAL
13	AN	63	VAL
13	AN	64	ARG
13	AN	65	THR
13	AN	66	LYS
13	AN	77	ILE
13	AN	78	ARG
13	AN	86	ILE
13	AN	90	ASP
13	AN	98	ILE
13	AN	99	PHE
13	AN	104	ARG
13	AN	106	LEU
13	AN	114	ILE
13	AN	122	ILE
14	AO	51	PHE
14	AO	53	ARG
14	AO	56	LYS
14	AO	59	GLU
14	AO	67	ARG
14	AO	70	ASP
14	AO	72	ASN

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Mol	Chain	Res	Type
14	AO	75	LEU
14	AO	94	ARG
14	AO	104	ASP
14	AO	109	LEU
14	AO	113	GLN
14	AO	119	THR
14	AO	120	LEU
14	AO	125	PHE
14	AO	141	GLU
15	AP	10	ILE
15	AP	16	ARG
15	AP	17	ARG
15	AP	19	TYR
15	AP	20	ILE
15	AP	24	PRO
15	AP	32	LYS
15	AP	47	GLU
15	AP	48	ASN
15	AP	49	VAL
15	AP	51	GLU
15	AP	54	VAL
15	AP	59	ASN
15	AP	61	LEU
15	AP	69	ASN
15	AP	72	VAL
15	AP	88	PHE
15	AP	89	PRO
15	AP	90	PHE
15	AP	91	HIS
15	AP	93	ILE
15	AP	94	ARG
15	AP	95	GLU
15	AP	109	VAL
15	AP	116	HIS
15	AP	122	PHE
15	AP	125	TRP
15	AP	133	GLU
15	AP	136	TRP
15	AP	137	ARG
15	AP	142	LYS
15	AP	144	THR
15	AP	145	PRO

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Mol	Chain	Res	Type
15	AP	146	THR
15	AP	150	ASP
15	AP	152	SER
15	AP	153	PRO
16	AQ	10	MET
16	AQ	12	ARG
16	AQ	13	ARG
16	AQ	14	ARG
16	AQ	17	ARG
16	AQ	18	THR
16	AQ	19	ASP
16	AQ	21	HIS
16	AQ	22	GLN
16	AQ	23	ARG
16	AQ	27	LEU
16	AQ	28	LYS
16	AQ	32	PRO
16	AQ	42	HIS
16	AQ	52	PRO
16	AQ	57	THR
16	AQ	71	TRP
16	AQ	72	GLU
16	AQ	74	PRO
16	AQ	87	LEU
16	AQ	93	GLN
16	AQ	94	GLU
16	AQ	99	GLU
16	AQ	101	VAL
16	AQ	102	LEU
16	AQ	103	ASP
16	AQ	107	ASN
16	AQ	109	PRO
16	AQ	111	PRO
16	AQ	124	ASP
16	AQ	128	ASP
17	AR	4	ARG
17	AR	7	ASP
17	AR	8	TYR
17	AR	11	THR
17	AR	12	ASP
17	AR	13	ILE
17	AR	14	GLU

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Mol	Chain	Res	Type
17	AR	20	MET
17	AR	21	PHE
17	AR	22	VAL
17	AR	23	HIS
17	AR	28	THR
17	AR	29	THR
17	AR	32	CYS
17	AR	36	CYS
17	AR	42	LEU
17	AR	44	ARG
17	AR	48	ASN
17	AR	49	LEU
17	AR	51	TRP
18	AS	11	ARG
18	AS	13	SER
18	AS	14	PRO
18	AS	22	ASP
18	AS	25	ARG
18	AS	28	SER
18	AS	29	LEU
18	AS	30	GLU
18	AS	34	ASN
18	AS	41	LYS
18	AS	49	LYS
18	AS	63	ASP
18	AS	66	GLU
18	AS	67	ASP
18	AS	71	VAL
18	AS	75	TYR
18	AS	76	VAL
18	AS	82	LEU
18	AS	84	ARG
18	AS	86	LEU
18	AS	90	ARG
18	AS	103	ILE
18	AS	107	LEU
19	AT	2	TRP
19	AT	4	VAL
19	AT	11	THR
19	AT	17	ASP
19	AT	18	MET
19	AT	19	ASP

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Mol	Chain	Res	Type
19	AT	20	PHE
19	AT	24	LEU
19	AT	25	GLN
19	AT	26	PHE
19	AT	30	ASP
19	AT	31	ARG
19	AT	36	GLU
19	AT	45	TYR
19	AT	46	ASP
19	AT	50	GLU
19	AT	57	THR
19	AT	59	ASP
19	AT	76	GLU
20	AU	15	PRO
20	AU	18	GLU
20	AU	19	ARG
20	AU	23	VAL
20	AU	26	THR
20	AU	27	LEU
20	AU	30	ASP
20	AU	31	LEU
20	AU	35	TYR
20	AU	47	THR
20	AU	49	GLU
20	AU	51	LEU
20	AU	61	GLU
20	AU	64	ASN
20	AU	71	VAL
20	AU	75	GLU
20	AU	77	VAL
20	AU	81	LYS
20	AU	83	ASP
20	AU	97	ARG
20	AU	100	ASP
20	AU	105	ASP
21	AV	2	GLU
21	AV	9	THR
21	AV	10	PRO
21	AV	14	LEU
21	AV	16	GLU
21	AV	19	ILE
21	AV	24	TYR

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Mol	Chain	Res	Type
21	AV	25	ASN
21	AV	26	LYS
21	AV	27	GLU
21	AV	32	PHE
21	AV	34	LEU
21	AV	35	ASP
21	AV	36	ARG
21	AV	40	ASP
21	AV	41	ARG
21	AV	45	GLN
21	AV	49	THR
21	AV	51	LEU
21	AV	57	GLU
21	AV	63	PRO
21	AV	66	VAL
21	AV	67	LYS
21	AV	69	VAL
21	AV	70	GLN
21	AV	72	ASP
21	AV	74	ARG
21	AV	87	THR
21	AV	88	TYR
21	AV	91	PRO
21	AV	103	ARG
21	AV	107	GLU
21	AV	113	VAL
21	AV	114	ASP
21	AV	115	ILE
21	AV	118	HIS
21	AV	120	LEU
21	AV	127	PRO
21	AV	141	MET
21	AV	159	THR
21	AV	165	GLU
21	AV	166	LEU
22	AW	7	GLU
22	AW	10	ASP
22	AW	19	GLU
22	AW	20	LEU
22	AW	21	ASP
22	AW	22	ASP
22	AW	24	LYS

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Mol	Chain	Res	Type
22	AW	34	GLN
22	AW	45	ARG
22	AW	46	ILE
22	AW	55	ARG
22	AW	58	THR
22	AW	60	GLN
22	AW	62	GLU
22	AW	65	ASP
23	AX	2	PRO
23	AX	4	LEU
23	AX	6	VAL
23	AX	9	VAL
23	AX	16	PRO
23	AX	18	ASP
23	AX	23	LEU
23	AX	30	ARG
23	AX	31	LEU
23	AX	32	GLN
23	AX	38	GLU
23	AX	40	THR
23	AX	41	PRO
23	AX	43	ILE
23	AX	48	GLU
23	AX	50	VAL
23	AX	57	GLU
23	AX	59	VAL
24	A0	16	HIS
24	A0	17	ARG
24	A0	18	LEU
24	A0	23	ASN
24	A0	27	SER
24	A0	35	THR
24	A0	36	THR
24	A0	50	HIS
24	A0	51	LEU
24	A0	52	ILE
24	A0	54	LEU
24	A0	56	LYS
24	A0	60	LEU
24	A0	68	ARG
24	A0	70	LEU
24	A0	73	VAL

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Mol	Chain	Res	Type
24	A0	75	LEU
24	A0	76	VAL
24	A0	77	ARG
24	A0	79	LEU
24	A0	80	PHE
24	A0	82	GLU
24	A0	83	ILE
24	A0	86	ARG
24	A0	88	ARG
24	A0	91	GLN
24	A0	100	LEU
24	A0	105	ARG
24	A0	113	LEU
24	A0	116	LEU
25	A1	3	ARG
25	A1	8	ILE
25	A1	9	VAL
25	A1	11	ARG
25	A1	13	ARG
25	A1	19	LYS
25	A1	24	PHE
25	A1	27	SER
25	A1	28	ARG
25	A1	36	PHE
25	A1	39	LEU
25	A1	40	LEU
25	A1	41	ASN
25	A1	45	TYR
25	A1	46	GLU
25	A1	47	TYR
25	A1	59	ARG
25	A1	71	LEU
25	A1	72	HIS
25	A1	75	ASN
25	A1	83	LEU
25	A1	87	ASN
25	A1	88	ILE
25	A1	102	GLU
25	A1	109	LEU
25	A1	111	ASP
25	A1	113	SER
25	A1	114	ARG

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Mol	Chain	Res	Type
25	A1	117	ARG
26	A2	2	PHE
26	A2	15	SER
26	A2	20	ILE
26	A2	31	ASP
26	A2	35	LEU
26	A2	38	LEU
26	A2	39	PHE
26	A2	40	VAL
26	A2	44	GLN
26	A2	50	ASP
26	A2	63	HIS
26	A2	69	ILE
26	A2	74	TYR
26	A2	75	LYS
26	A2	78	VAL
26	A2	80	TYR
26	A2	90	PHE
26	A2	95	ILE
26	A2	96	LEU
27	A3	10	SER
27	A3	14	ARG
27	A3	26	PHE
27	A3	39	ARG
27	A3	43	THR
27	A3	45	PHE
27	A3	46	LYS
27	A3	49	GLN
27	A3	55	ARG
27	A3	56	ASP
27	A3	57	HIS
27	A3	62	LEU
27	A3	66	LYS
27	A3	67	VAL
27	A3	70	ILE
27	A3	77	ARG
27	A3	78	PHE
27	A3	81	ILE
28	A4	5	LEU
28	A4	11	PRO
28	A4	16	TYR
28	A4	19	GLN

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Mol	Chain	Res	Type
28	A4	23	GLU
28	A4	25	MET
28	A4	29	PRO
28	A4	36	TRP
28	A4	37	SER
28	A4	46	GLU
28	A4	49	PHE
28	A4	51	ASP
28	A4	59	PHE
28	A4	67	TYR
28	A4	68	ARG
28	A4	73	LYS
29	A5	3	LYS
29	A5	5	PRO
29	A5	6	VAL
29	A5	10	LYS
29	A5	11	THR
29	A5	22	HIS
29	A5	23	HIS
29	A5	25	LEU
29	A5	31	THR
29	A5	34	PRO
29	A5	42	SER
29	A5	45	ILE
29	A5	55	ARG
30	A6	9	ILE
30	A6	20	PHE
30	A6	22	TYR
30	A6	23	THR
30	A6	28	ARG
30	A6	35	LEU
30	A6	40	TYR
30	A6	41	ASP
30	A6	46	LYS
30	A6	47	HIS
30	A6	54	LYS
31	A7	3	ARG
31	A7	4	THR
31	A7	6	GLN
31	A7	15	THR
31	A7	16	HIS
31	A7	22	MET

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Mol	Chain	Res	Type
31	A7	30	ILE
31	A7	35	ARG
31	A7	40	HIS
32	A8	4	MET
32	A8	5	LYS
32	A8	8	LYS
32	A8	12	ARG
32	A8	13	ARG
32	A8	16	ILE
32	A8	25	PHE
32	A8	31	HIS
32	A8	37	SER
32	A8	41	ILE
32	A8	42	ARG
32	A8	48	PHE
32	A8	50	LEU
32	A8	55	TRP
32	A8	58	MET
32	A8	63	PRO
32	A8	64	ARG
33	A9	2	LYS
33	A9	8	LYS
33	A9	13	ASN
33	A9	34	GLN
37	BE	9	GLU
37	BE	11	LEU
37	BE	12	GLU
37	BE	17	PHE
37	BE	21	ARG
37	BE	23	ARG
37	BE	24	TRP
37	BE	25	ASN
37	BE	26	PRO
37	BE	28	PHE
37	BE	36	ARG
37	BE	42	ILE
37	BE	44	LEU
37	BE	48	MET
37	BE	56	ARG
37	BE	57	PHE
37	BE	61	LEU
37	BE	63	MET

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Mol	Chain	Res	Type
37	BE	64	ARG
37	BE	98	LEU
37	BE	102	LEU
37	BE	104	ASN
37	BE	122	PHE
37	BE	130	ARG
37	BE	135	GLN
37	BE	143	GLU
37	BE	147	LYS
37	BE	148	TYR
37	BE	150	SER
37	BE	152	PHE
37	BE	154	LEU
37	BE	162	ILE
37	BE	169	LYS
37	BE	172	ILE
37	BE	185	ILE
37	BE	187	LEU
37	BE	190	THR
37	BE	195	ASP
37	BE	201	ILE
37	BE	204	ASN
37	BE	205	ASP
37	BE	208	ILE
37	BE	209	ARG
37	BE	212	GLN
37	BE	215	LEU
37	BE	217	ARG
37	BE	222	ILE
37	BE	223	ILE
37	BE	230	VAL
37	BE	238	LEU
38	BF	3	ASN
38	BF	8	ILE
38	BF	11	ARG
38	BF	12	LEU
38	BF	18	TRP
38	BF	20	SER
38	BF	29	TYR
38	BF	34	LEU
38	BF	36	ASP
38	BF	43	LEU

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Mol	Chain	Res	Type
38	BF	47	LEU
38	BF	52	LEU
38	BF	73	PRO
38	BF	77	ILE
38	BF	91	LEU
38	BF	98	ASN
38	BF	110	ASN
38	BF	128	PHE
38	BF	139	GLN
38	BF	156	ARG
38	BF	161	GLU
38	BF	162	GLN
38	BF	164	ARG
38	BF	165	THR
38	BF	175	LEU
38	BF	176	HIS
38	BF	178	LEU
38	BF	179	ARG
38	BF	186	PHE
38	BF	193	TYR
38	BF	196	LEU
38	BF	198	VAL
38	BF	204	LEU
39	BG	8	VAL
39	BG	15	GLU
39	BG	20	TYR
39	BG	26	CYS
39	BG	27	TYR
39	BG	33	MET
39	BG	45	GLN
39	BG	47	ARG
39	BG	50	ARG
39	BG	51	PRO
39	BG	53	ASP
39	BG	58	LEU
39	BG	60	GLU
39	BG	61	LYS
39	BG	62	GLN
39	BG	63	LYS
39	BG	67	ILE
39	BG	77	ASN
39	BG	78	LEU

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Mol	Chain	Res	Type
39	BG	83	SER
39	BG	86	LYS
39	BG	99	SER
39	BG	107	ARG
39	BG	122	ARG
39	BG	125	HIS
39	BG	128	VAL
39	BG	131	ARG
39	BG	132	ARG
39	BG	135	LEU
39	BG	137	SER
39	BG	154	ASN
39	BG	159	ARG
39	BG	165	MET
39	BG	173	TRP
39	BG	175	SER
39	BG	176	LEU
39	BG	177	ASP
39	BG	181	MET
39	BG	182	LYS
39	BG	185	PHE
39	BG	190	ASP
39	BG	192	GLU
39	BG	193	ASP
39	BG	200	GLU
40	BH	6	PHE
40	BH	10	MET
40	BH	11	ILE
40	BH	12	LEU
40	BH	13	ILE
40	BH	15	ARG
40	BH	19	MET
40	BH	20	GLN
40	BH	26	PHE
40	BH	27	ARG
40	BH	28	PHE
40	BH	31	LEU
40	BH	36	ASP
40	BH	40	ARG
40	BH	41	VAL
40	BH	43	LEU
40	BH	53	LEU

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Mol	Chain	Res	Type
40	BH	56	GLN
40	BH	63	ARG
40	BH	64	ARG
40	BH	67	VAL
40	BH	68	GLU
40	BH	69	VAL
40	BH	71	LEU
40	BH	73	ASN
40	BH	75	THR
40	BH	76	ILE
40	BH	78	HIS
40	BH	80	ILE
40	BH	81	GLU
40	BH	82	VAL
40	BH	89	ILE
40	BH	96	PRO
40	BH	101	ILE
40	BH	105	VAL
40	BH	109	ILE
40	BH	112	LEU
40	BH	115	VAL
40	BH	117	ASP
40	BH	118	ILE
40	BH	120	THR
40	BH	127	ASN
40	BH	128	PRO
40	BH	131	ILE
40	BH	137	GLU
40	BH	140	ARG
40	BH	143	ARG
40	BH	145	LYS
40	BH	150	ARG
41	BI	4	TYR
41	BI	9	VAL
41	BI	10	LEU
41	BI	11	ASN
41	BI	14	LEU
41	BI	18	GLN
41	BI	24	GLU
41	BI	28	ARG
41	BI	36	ARG
41	BI	37	VAL

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Mol	Chain	Res	Type
41	BI	39	LYS
41	BI	40	VAL
41	BI	47	ARG
41	BI	52	ILE
41	BI	54	LYS
41	BI	57	GLN
41	BI	60	PHE
41	BI	67	MET
41	BI	70	ASP
41	BI	74	ASP
41	BI	79	LEU
41	BI	86	ARG
41	BI	90	VAL
41	BI	94	GLN
41	BI	95	GLU
41	BI	96	PRO
42	BJ	8	GLU
42	BJ	10	ARG
42	BJ	28	ASN
42	BJ	36	LYS
42	BJ	37	ASN
42	BJ	52	GLU
42	BJ	72	ARG
42	BJ	84	ASN
42	BJ	103	TRP
42	BJ	104	LEU
42	BJ	106	GLN
42	BJ	111	ARG
42	BJ	113	GLU
42	BJ	114	ARG
42	BJ	118	VAL
42	BJ	124	LEU
42	BJ	126	ASP
42	BJ	136	LYS
42	BJ	140	ASP
42	BJ	155	ARG
43	BK	1	MET
43	BK	3	THR
43	BK	4	ASP
43	BK	5	PRO
43	BK	6	ILE
43	BK	14	ARG

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Mol	Chain	Res	Type
43	BK	18	ARG
43	BK	23	SER
43	BK	25	ASP
43	BK	26	VAL
43	BK	33	GLU
43	BK	34	GLU
43	BK	36	LEU
43	BK	37	ARG
43	BK	38	ILE
43	BK	39	LEU
43	BK	41	ARG
43	BK	45	ILE
43	BK	49	GLU
43	BK	50	ARG
43	BK	58	TYR
43	BK	59	LEU
43	BK	63	LEU
43	BK	65	TYR
43	BK	70	GLN
43	BK	78	GLN
43	BK	80	ILE
43	BK	83	ILE
43	BK	84	ARG
43	BK	91	ARG
43	BK	92	ARG
43	BK	98	LYS
43	BK	100	ILE
43	BK	102	ARG
43	BK	103	VAL
43	BK	105	ARG
43	BK	107	LEU
43	BK	109	ILE
43	BK	111	ILE
43	BK	116	LYS
43	BK	120	THR
43	BK	121	ASP
43	BK	122	ARG
43	BK	126	LYS
43	BK	127	LEU
43	BK	136	GLU
44	BL	3	GLN
44	BL	4	TYR

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Mol	Chain	Res	Type
44	BL	5	TYR
44	BL	10	ARG
44	BL	31	GLN
44	BL	32	ASP
44	BL	37	PHE
44	BL	38	GLN
44	BL	50	LEU
44	BL	51	ARG
44	BL	64	THR
44	BL	75	ASP
44	BL	102	LEU
44	BL	108	VAL
44	BL	110	GLU
44	BL	114	TYR
44	BL	116	LYS
45	BM	5	ARG
45	BM	9	ARG
45	BM	11	PHE
45	BM	12	ASP
45	BM	13	HIS
45	BM	45	ARG
45	BM	47	PHE
45	BM	60	ARG
45	BM	62	HIS
45	BM	63	PHE
45	BM	64	GLU
45	BM	71	LEU
45	BM	73	ASP
45	BM	77	PRO
45	BM	78	ASN
45	BM	83	GLU
45	BM	95	GLU
45	BM	100	THR
46	BN	16	SER
46	BN	18	ARG
46	BN	21	ILE
46	BN	26	ASN
46	BN	34	ASP
46	BN	50	TYR
46	BN	62	GLN
46	BN	66	LEU
46	BN	67	ASP

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Mol	Chain	Res	Type
46	BN	73	MET
46	BN	75	TYR
46	BN	77	MET
46	BN	78	GLN
46	BN	92	GLU
46	BN	101	SER
46	BN	103	LEU
46	BN	107	SER
46	BN	116	HIS
46	BN	121	PRO
46	BN	129	SER
47	BO	17	LYS
47	BO	23	LYS
47	BO	24	VAL
47	BO	33	ARG
47	BO	42	THR
47	BO	48	PRO
47	BO	53	ARG
47	BO	60	LEU
47	BO	61	THR
47	BO	66	VAL
47	BO	80	HIS
47	BO	93	LEU
47	BO	96	VAL
47	BO	99	HIS
47	BO	100	ILE
47	BO	101	VAL
47	BO	113	ARG
47	BO	122	THR
47	BO	126	LYS
48	BP	9	ILE
48	BP	32	GLU
48	BP	37	THR
48	BP	43	THR
48	BP	44	ARG
48	BP	47	ASP
48	BP	48	LEU
48	BP	56	LEU
48	BP	61	GLU
48	BP	64	TRP
48	BP	77	ASN
48	BP	80	ARG

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Mol	Chain	Res	Type
48	BP	81	LEU
48	BP	82	MET
48	BP	87	TYR
48	BP	96	LEU
48	BP	108	ARG
48	BP	109	THR
48	BP	110	ARG
48	BP	121	LYS
49	BQ	21	TYR
49	BQ	22	THR
49	BQ	25	VAL
49	BQ	34	TYR
49	BQ	36	PHE
49	BQ	40	CYS
49	BQ	43	CYS
49	BQ	58	LYS
50	BR	3	ILE
50	BR	4	THR
50	BR	6	GLU
50	BR	22	THR
50	BR	25	THR
50	BR	26	GLU
50	BR	32	LEU
50	BR	33	THR
50	BR	34	LEU
50	BR	36	ILE
50	BR	38	ARG
50	BR	44	LYS
50	BR	46	HIS
50	BR	54	ARG
50	BR	57	LEU
50	BR	63	ARG
50	BR	65	ARG
50	BR	70	LEU
50	BR	77	ARG
50	BR	83	GLU
51	BS	1	MET
51	BS	3	LYS
51	BS	4	ILE
51	BS	6	LEU
51	BS	8	ARG
51	BS	11	SER

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Mol	Chain	Res	Type
51	BS	12	LYS
51	BS	14	ASN
51	BS	17	TYR
51	BS	21	VAL
51	BS	22	THR
51	BS	27	LYS
51	BS	28	ARG
51	BS	32	TYR
51	BS	39	TYR
51	BS	40	ASP
51	BS	44	THR
51	BS	48	TRP
51	BS	52	ASP
51	BS	55	ARG
51	BS	58	TYR
51	BS	62	VAL
51	BS	66	PRO
51	BS	68	ASP
51	BS	69	THR
51	BS	71	ARG
51	BS	74	LEU
51	BS	75	ARG
52	BT	9	VAL
52	BT	18	THR
52	BT	19	VAL
52	BT	21	VAL
52	BT	23	VAL
52	BT	24	GLU
52	BT	28	PRO
52	BT	36	ILE
52	BT	37	LYS
52	BT	38	ARG
52	BT	39	SER
52	BT	43	LEU
52	BT	48	GLU
52	BT	51	TYR
52	BT	57	VAL
52	BT	58	GLU
52	BT	60	ILE
52	BT	62	SER
52	BT	75	ARG
52	BT	78	GLU

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Mol	Chain	Res	Type
52	BT	96	GLN
52	BT	101	ARG
53	BU	25	THR
53	BU	28	GLU
53	BU	36	ASN
53	BU	38	GLU
53	BU	40	LEU
53	BU	44	LEU
53	BU	49	LYS
53	BU	54	ARG
53	BU	62	GLU
53	BU	72	ARG
53	BU	74	ARG
53	BU	75	ILE
53	BU	76	LEU
53	BU	79	LEU
53	BU	81	PHE
53	BU	83	GLU
53	BU	88	LYS
54	BV	12	ASP
54	BV	15	LEU
54	BV	18	LYS
54	BV	20	LEU
54	BV	21	GLU
54	BV	30	LEU
54	BV	34	TRP
54	BV	53	ASN
54	BV	57	HIS
54	BV	61	TYR
54	BV	64	GLU
54	BV	74	PHE
55	BW	8	ARG
55	BW	9	ASN
55	BW	13	LEU
55	BW	16	HIS
55	BW	19	SER
55	BW	26	ASN
55	BW	30	LYS
55	BW	31	SER
55	BW	36	LEU
55	BW	42	GLN
55	BW	46	GLU

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Mol	Chain	Res	Type
55	BW	51	GLU
55	BW	61	SER
55	BW	62	LEU
55	BW	63	ILE
55	BW	71	THR
55	BW	72	LEU
55	BW	73	HIS
55	BW	75	ASN
55	BW	79	ARG
55	BW	82	SER
55	BW	90	GLN
55	BW	105	SER
56	BX	5	ASP
56	BX	18	TYR

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (187) such sidechains are listed below:

Mol	Chain	Res	Type
3	AC	27	HIS
3	AC	57	ASN
3	AC	139	ASN
4	AD	60	GLN
4	AD	85	ASN
4	AD	89	ASN
4	AD	133	ASN
4	AD	142	ASN
4	AD	152	GLN
4	AD	196	ASN
4	AD	209	ASN
4	AD	223	ASN
4	AD	230	ASN
4	AD	234	HIS
5	AE	242	ASN
5	AE	259	HIS
5	AE	265	ASN
6	AF	11	ASN
6	AF	39	GLN
6	AF	103	ASN
6	AF	219	ASN
7	AG	11	HIS
7	AG	36	ASN
7	AG	47	GLN

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Mol	Chain	Res	Type
7	AG	133	ASN
8	AH	59	HIS
8	AH	73	ASN
8	AH	110	HIS
8	AH	127	GLN
9	AI	72	GLN
9	AJ	72	GLN
10	AK	33	GLN
10	AK	43	ASN
10	AK	55	GLN
10	AK	64	ASN
10	AK	103	GLN
10	AK	106	HIS
11	AL	12	GLN
11	AL	31	HIS
12	AM	40	ASN
12	AM	92	GLN
13	AN	34	ASN
13	AN	82	ASN
14	AO	55	GLN
14	AO	58	GLN
14	AO	113	GLN
15	AP	48	ASN
15	AP	59	ASN
15	AP	66	ASN
15	AP	74	ASN
15	AP	116	HIS
15	AP	120	HIS
15	AP	148	ASN
15	AP	156	ASN
18	AS	34	ASN
18	AS	40	ASN
18	AS	60	ASN
18	AS	61	ASN
19	AT	55	GLN
19	AT	56	ASN
20	AU	7	GLN
20	AU	17	HIS
20	AU	20	HIS
20	AU	22	GLN
20	AU	43	ASN
20	AU	73	HIS

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Mol	Chain	Res	Type
21	AV	25	ASN
21	AV	45	GLN
21	AV	46	GLN
21	AV	70	GLN
21	AV	118	HIS
21	AV	121	GLN
21	AV	146	HIS
22	AW	29	ASN
22	AW	42	ASN
23	AX	46	ASN
24	A0	31	HIS
24	A0	50	HIS
25	A1	37	GLN
25	A1	52	ASN
25	A1	81	ASN
25	A1	87	ASN
25	A1	115	ASN
25	A1	118	GLN
26	A2	79	GLN
26	A2	88	GLN
26	A2	89	ASN
27	A3	17	ASN
27	A3	35	ASN
27	A3	49	GLN
27	A3	57	HIS
27	A3	71	ASN
28	A4	17	GLN
28	A4	19	GLN
28	A4	32	HIS
28	A4	60	ASN
29	A5	4	HIS
29	A5	29	ASN
29	A5	35	GLN
29	A5	37	HIS
29	A5	48	ASN
31	A7	6	GLN
31	A7	8	ASN
31	A7	9	ASN
31	A7	29	ASN
32	A8	31	HIS
37	BE	19	HIS
37	BE	25	ASN

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Mol	Chain	Res	Type
37	BE	37	ASN
37	BE	40	HIS
37	BE	78	GLN
37	BE	135	GLN
37	BE	146	GLN
37	BE	204	ASN
37	BE	224	GLN
37	BE	240	GLN
38	BF	3	ASN
38	BF	28	GLN
38	BF	98	ASN
38	BF	107	GLN
38	BF	110	ASN
38	BF	136	GLN
38	BF	139	GLN
38	BF	170	GLN
39	BG	42	GLN
39	BG	62	GLN
39	BG	103	ASN
39	BG	154	ASN
40	BH	20	GLN
40	BH	56	GLN
40	BH	65	ASN
40	BH	73	ASN
40	BH	78	HIS
40	BH	130	ASN
41	BI	13	ASN
41	BI	18	GLN
41	BI	32	ASN
41	BI	57	GLN
41	BI	64	GLN
41	BI	94	GLN
41	BI	100	ASN
42	BJ	11	GLN
42	BJ	64	GLN
42	BJ	68	ASN
42	BJ	106	GLN
42	BJ	109	ASN
42	BJ	122	HIS
42	BJ	148	ASN
43	BK	15	ASN
43	BK	78	GLN

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Mol	Chain	Res	Type
44	BL	3	GLN
44	BL	31	GLN
44	BL	73	GLN
44	BL	87	GLN
44	BL	89	ASN
45	BM	56	HIS
45	BM	76	ASN
45	BM	78	ASN
45	BM	84	GLN
46	BN	13	GLN
46	BN	27	ASN
46	BN	62	GLN
46	BN	78	GLN
46	BN	117	ASN
47	BO	76	ASN
48	BP	12	ASN
48	BP	40	ASN
48	BP	77	ASN
48	BP	106	ASN
50	BR	13	GLN
50	BR	37	ASN
50	BR	42	HIS
50	BR	62	GLN
51	BS	13	HIS
51	BS	82	GLN
52	BT	16	GLN
52	BT	94	ASN
53	BU	36	ASN
53	BU	63	GLN
54	BV	14	HIS
54	BV	56	GLN
54	BV	57	HIS
55	BW	26	ASN
55	BW	42	GLN
55	BW	45	GLN
55	BW	73	HIS
55	BW	75	ASN

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AB	122/123 (99%)	47 (38%)	5 (4%)
2	AA	2870/2915 (98%)	1226 (42%)	290 (10%)
34	BA	1515/1522 (99%)	452 (29%)	161 (10%)
35	BB	76/76 (100%)	34 (44%)	16 (21%)
35	BC	75/76 (98%)	31 (41%)	9 (12%)
36	B1	65/78 (83%)	24 (36%)	4 (6%)
All	All	4723/4790 (98%)	1814 (38%)	485 (10%)

All (1814) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AB	0	A
1	AB	1	U
1	AB	2	C
1	AB	3	C
1	AB	9	G
1	AB	12	C
1	AB	13	A
1	AB	15	A
1	AB	16	G
1	AB	18	G
1	AB	25	A
1	AB	32	C
1	AB	34	U
1	AB	40	U
1	AB	41	U
1	AB	42	C
1	AB	43	C
1	AB	45	A
1	AB	46	A
1	AB	48	A
1	AB	51	G
1	AB	52	A
1	AB	57	A
1	AB	59	A
1	AB	61	G
1	AB	62	C
1	AB	66	A
1	AB	67	G
1	AB	69	G
1	AB	73	A

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Mol	Chain	Res	Type
1	AB	87	G
1	AB	88	C
1	AB	89	G
1	AB	90	C
1	AB	96	G
1	AB	99	A
1	AB	103	U
1	AB	104	A
1	AB	108	C
1	AB	109	G
1	AB	110	G
1	AB	113	C
1	AB	114	G
1	AB	115	G
1	AB	117	G
1	AB	119	A
1	AB	120	U
2	AA	9	U
2	AA	13	A
2	AA	14	A
2	AA	17	G
2	AA	29	U
2	AA	33	U
2	AA	34	C
2	AA	35	G
2	AA	40	C
2	AA	46	C
2	AA	49	A
2	AA	50	U
2	AA	51	G
2	AA	52	A
2	AA	55	G
2	AA	60	G
2	AA	61	G
2	AA	63	U
2	AA	69	C
2	AA	71	A
2	AA	72	U
2	AA	73	A
2	AA	74	A
2	AA	75	G
2	AA	77	C

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Mol	Chain	Res	Type
2	AA	83	G
2	AA	84	A
2	AA	88	G
2	AA	90	U
2	AA	91	A
2	AA	92	G
2	AA	95	G
2	AA	101	G
2	AA	102	G
2	AA	103	A
2	AA	104	U
2	AA	107	C
2	AA	108	U
2	AA	109	G
2	AA	112	U
2	AA	113	G
2	AA	117	G
2	AA	119	A
2	AA	120	U
2	AA	121	G
2	AA	122	G
2	AA	125	G
2	AA	126	A
2	AA	129	C
2	AA	132	G
2	AA	133	C
2	AA	136	G
2	AA	137	C
2	AA	137(A)	G
2	AA	138	G
2	AA	139	G
2	AA	140	A
2	AA	141	A
2	AA	141(A)	C
2	AA	142	G
2	AA	143	C
2	AA	152	G
2	AA	153	C
2	AA	161	U
2	AA	163	U
2	AA	164	U
2	AA	171	G

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Mol	Chain	Res	Type
2	AA	172	C
2	AA	173	G
2	AA	178	G
2	AA	180	G
2	AA	181	A
2	AA	182	A
2	AA	190	A
2	AA	191	A
2	AA	192	C
2	AA	196	A
2	AA	197	A
2	AA	203	C
2	AA	204	A
2	AA	205	G
2	AA	206	U
2	AA	214	G
2	AA	215	G
2	AA	216	A
2	AA	218	A
2	AA	221	A
2	AA	222	A
2	AA	223	A
2	AA	228	A
2	AA	229	A
2	AA	232	G
2	AA	233	A
2	AA	239	U
2	AA	241	A
2	AA	242	G
2	AA	243	U
2	AA	248	G
2	AA	249	C
2	AA	252	G
2	AA	264	C
2	AA	265	A
2	AA	266	G
2	AA	269	U
2	AA	270(A)	A
2	AA	270(B)	A
2	AA	270(C)	C
2	AA	270(L)	U
2	AA	270(M)	U

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Mol	Chain	Res	Type
2	AA	270(N)	G
2	AA	270(O)	U
2	AA	270(T)	G
2	AA	270(U)	C
2	AA	270(V)	G
2	AA	270(X)	G
2	AA	270(Y)	G
2	AA	270(Z)	U
2	AA	271(A)	C
2	AA	271(C)	U
2	AA	271	G
2	AA	273	G
2	AA	273(F)	C
2	AA	276	A
2	AA	277	C
2	AA	279	C
2	AA	280	C
2	AA	281	G
2	AA	282	A
2	AA	283	A
2	AA	286	C
2	AA	287	C
2	AA	288	C
2	AA	289	A
2	AA	290	G
2	AA	291	C
2	AA	293	U
2	AA	295	G
2	AA	299	A
2	AA	301	G
2	AA	302	C
2	AA	303	U
2	AA	308	G
2	AA	310	A
2	AA	311	A
2	AA	312	G
2	AA	316	C
2	AA	318	C
2	AA	320	A
2	AA	322	A
2	AA	323	G
2	AA	324	A

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Mol	Chain	Res	Type
2	AA	329	G
2	AA	330	A
2	AA	331	A
2	AA	332	A
2	AA	333	G
2	AA	338	G
2	AA	339	U
2	AA	340	A
2	AA	341	G
2	AA	342	G
2	AA	347	A
2	AA	349	G
2	AA	350	U
2	AA	351	G
2	AA	354	G
2	AA	358	U
2	AA	359	A
2	AA	360	G
2	AA	362	U
2	AA	363(A)	A
2	AA	363(C)	G
2	AA	363(F)	A
2	AA	370	G
2	AA	371	A
2	AA	372	G
2	AA	373	U
2	AA	374	A
2	AA	380	U
2	AA	386	G
2	AA	387	U
2	AA	388	G
2	AA	391	G
2	AA	401	A
2	AA	403	U
2	AA	404	C
2	AA	405	U
2	AA	406	G
2	AA	411	G
2	AA	412	A
2	AA	420	C
2	AA	421	U
2	AA	422	A

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Mol	Chain	Res	Type
2	AA	423	A
2	AA	428	A
2	AA	430	G
2	AA	435	C
2	AA	443	A
2	AA	444	C
2	AA	448	U
2	AA	449	A
2	AA	451	C
2	AA	453	C
2	AA	455	C
2	AA	456	C
2	AA	457	A
2	AA	458	G
2	AA	466	A
2	AA	470	A
2	AA	471	A
2	AA	473	G
2	AA	475	U
2	AA	480	A
2	AA	481	G
2	AA	483	A
2	AA	492	A
2	AA	493	G
2	AA	498	G
2	AA	501	A
2	AA	503	A
2	AA	504	U
2	AA	505	A
2	AA	506	G
2	AA	507	A
2	AA	508	G
2	AA	509	C
2	AA	510	C
2	AA	527	C
2	AA	528	A
2	AA	529	A
2	AA	530	G
2	AA	531	C
2	AA	532	A
2	AA	533	G
2	AA	535	C

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Mol	Chain	Res	Type
2	AA	541	C
2	AA	544	C
2	AA	545	G
2	AA	546	C
2	AA	549	G
2	AA	556	G
2	AA	559	G
2	AA	560	C
2	AA	561	G
2	AA	562	U
2	AA	563	G
2	AA	566	U
2	AA	568	U
2	AA	571	A
2	AA	572	A
2	AA	573	G
2	AA	574	C
2	AA	575	A
2	AA	578	A
2	AA	579	G
2	AA	585	G
2	AA	586	A
2	AA	588	U
2	AA	595	C
2	AA	598	G
2	AA	600	G
2	AA	603	A
2	AA	612	G
2	AA	613	U
2	AA	614	U
2	AA	615	G
2	AA	616	A
2	AA	617	G
2	AA	619	G
2	AA	620	G
2	AA	621	A
2	AA	622	G
2	AA	624	C
2	AA	625	G
2	AA	627	A
2	AA	631	A
2	AA	634	C

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Mol	Chain	Res	Type
2	AA	637	A
2	AA	640	C
2	AA	641	C
2	AA	643	A
2	AA	646	A
2	AA	647	G
2	AA	653	A
2	AA	654	A
2	AA	655	A
2	AA	656	G
2	AA	666	G
2	AA	667	U
2	AA	669	G
2	AA	670	A
2	AA	671	C
2	AA	673	C
2	AA	676	A
2	AA	677	A
2	AA	686	G
2	AA	687	C
2	AA	690	G
2	AA	698	C
2	AA	704	G
2	AA	705	A
2	AA	706	A
2	AA	713	G
2	AA	715	G
2	AA	718	A
2	AA	719	C
2	AA	725	G
2	AA	726	G
2	AA	727	A
2	AA	728	G
2	AA	729	G
2	AA	730	C
2	AA	734	A
2	AA	735	A
2	AA	739	G
2	AA	740	U
2	AA	741	G
2	AA	743	G
2	AA	745	G

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Mol	Chain	Res	Type
2	AA	746	A
2	AA	747	U
2	AA	748	G
2	AA	749	C
2	AA	753	C
2	AA	763	G
2	AA	764	A
2	AA	765	G
2	AA	774	A
2	AA	775	G
2	AA	776	G
2	AA	777	A
2	AA	781	A
2	AA	782	A
2	AA	783	A
2	AA	784	A
2	AA	785	G
2	AA	786	C
2	AA	787	U
2	AA	788	A
2	AA	789	A
2	AA	790	C
2	AA	791	C
2	AA	792	G
2	AA	793	A
2	AA	794	G
2	AA	795	C
2	AA	797	C
2	AA	798	G
2	AA	799	G
2	AA	800	A
2	AA	801	G
2	AA	802	A
2	AA	805	G
2	AA	806	C
2	AA	809	G
2	AA	812	C
2	AA	816	C
2	AA	819	A
2	AA	827	U
2	AA	828	U
2	AA	830	G

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Mol	Chain	Res	Type
2	AA	831	G
2	AA	834	C
2	AA	838	C
2	AA	839	U
2	AA	844	C
2	AA	846	C
2	AA	847	U
2	AA	848	G
2	AA	858	U
2	AA	859	G
2	AA	860	U
2	AA	861	A
2	AA	863	A
2	AA	865	C
2	AA	867	C
2	AA	870	A
2	AA	873	G
2	AA	886	C
2	AA	887	A
2	AA	888	C
2	AA	889	C
2	AA	890	A
2	AA	892	G
2	AA	896	A
2	AA	897	C
2	AA	899	A
2	AA	902	C
2	AA	906	G
2	AA	907	U
2	AA	908	C
2	AA	910	A
2	AA	914	C
2	AA	918	A
2	AA	919	G
2	AA	920	G
2	AA	930	U
2	AA	931	G
2	AA	932	G
2	AA	933	A
2	AA	935	C
2	AA	936	C
2	AA	941	A

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Mol	Chain	Res	Type
2	AA	942	G
2	AA	943	U
2	AA	944	G
2	AA	945	A
2	AA	946	G
2	AA	957	A
2	AA	958	U
2	AA	959	A
2	AA	961	C
2	AA	962	G
2	AA	972	G
2	AA	973	A
2	AA	974	G
2	AA	974(A)	C
2	AA	975	G
2	AA	976	C
2	AA	982	C
2	AA	983	A
2	AA	984	A
2	AA	985	C
2	AA	989	G
2	AA	990	A
2	AA	991	C
2	AA	993	G
2	AA	994	C
2	AA	995	C
2	AA	996	A
2	AA	997	G
2	AA	1008	C
2	AA	1009	A
2	AA	1012	U
2	AA	1013	C
2	AA	1015	G
2	AA	1019	U
2	AA	1021	A
2	AA	1022	G
2	AA	1023	U
2	AA	1025	G
2	AA	1026	U
2	AA	1027	A
2	AA	1030	G
2	AA	1033	U

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Mol	Chain	Res	Type
2	AA	1038	C
2	AA	1041	C
2	AA	1044	G
2	AA	1045	A
2	AA	1046	A
2	AA	1047	G
2	AA	1056	G
2	AA	1059	G
2	AA	1060	U
2	AA	1061	U
2	AA	1062	G
2	AA	1063	G
2	AA	1066	U
2	AA	1067	A
2	AA	1068	G
2	AA	1069	A
2	AA	1070	A
2	AA	1071	G
2	AA	1072	C
2	AA	1073	A
2	AA	1074	G
2	AA	1077	A
2	AA	1083	U
2	AA	1084	A
2	AA	1086	A
2	AA	1087	G
2	AA	1088	A
2	AA	1089	G
2	AA	1090	U
2	AA	1091	G
2	AA	1093	G
2	AA	1096	A
2	AA	1097	U
2	AA	1098	A
2	AA	1099	G
2	AA	1101	U
2	AA	1103	A
2	AA	1104	C
2	AA	1105	U
2	AA	1106	G
2	AA	1109	C
2	AA	1110	G

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Mol	Chain	Res	Type
2	AA	1112	G
2	AA	1116	C
2	AA	1123	C
2	AA	1126	A
2	AA	1127	A
2	AA	1128	A
2	AA	1130	U
2	AA	1131	G
2	AA	1132	A
2	AA	1134	G
2	AA	1135	C
2	AA	1141	U
2	AA	1142	U
2	AA	1142(A)	A
2	AA	1143	A
2	AA	1154	G
2	AA	1155	A
2	AA	1156	A
2	AA	1157	G
2	AA	1162	G
2	AA	1165	U
2	AA	1171	G
2	AA	1173	G
2	AA	1176	G
2	AA	1177	A
2	AA	1179	C
2	AA	1180	C
2	AA	1181	C
2	AA	1182	A
2	AA	1183	G
2	AA	1184	G
2	AA	1185	C
2	AA	1186	G
2	AA	1197	G
2	AA	1199	U
2	AA	1201	C
2	AA	1203	G
2	AA	1204	A
2	AA	1205	U
2	AA	1206	G
2	AA	1207	C
2	AA	1209	G

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Mol	Chain	Res	Type
2	AA	1210	A
2	AA	1211	U
2	AA	1212	G
2	AA	1213	A
2	AA	1220	A
2	AA	1221	C
2	AA	1222	C
2	AA	1224	G
2	AA	1227	A
2	AA	1228	G
2	AA	1238	G
2	AA	1239	G
2	AA	1240	U
2	AA	1241	A
2	AA	1242	A
2	AA	1247	A
2	AA	1248	G
2	AA	1249	U
2	AA	1251	C
2	AA	1252	G
2	AA	1253	A
2	AA	1254	A
2	AA	1255	U
2	AA	1256	G
2	AA	1260	G
2	AA	1261	C
2	AA	1265	A
2	AA	1266	G
2	AA	1268	A
2	AA	1269	A
2	AA	1270	C
2	AA	1271	G
2	AA	1272	A
2	AA	1273	U
2	AA	1275	A
2	AA	1289	C
2	AA	1301	A
2	AA	1302	A
2	AA	1303	G
2	AA	1304	C
2	AA	1305	C
2	AA	1311	G

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Mol	Chain	Res	Type
2	AA	1313	U
2	AA	1314	C
2	AA	1316	U
2	AA	1321	A
2	AA	1324	G
2	AA	1325	G
2	AA	1326	U
2	AA	1329	U
2	AA	1330	C
2	AA	1333	C
2	AA	1341	U
2	AA	1342	A
2	AA	1343	G
2	AA	1344	G
2	AA	1345	C
2	AA	1347	G
2	AA	1349	A
2	AA	1361	G
2	AA	1363	C
2	AA	1364	G
2	AA	1365	A
2	AA	1366	A
2	AA	1368	G
2	AA	1378	A
2	AA	1379	A
2	AA	1384	A
2	AA	1385	G
2	AA	1391	U
2	AA	1394	U
2	AA	1395	A
2	AA	1398	C
2	AA	1404	C
2	AA	1407	C
2	AA	1415	U
2	AA	1416	G
2	AA	1417	C
2	AA	1418	G
2	AA	1419	A
2	AA	1421	G
2	AA	1424	G
2	AA	1425	G
2	AA	1427	A

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Mol	Chain	Res	Type
2	AA	1428	C
2	AA	1429	G
2	AA	1433	U
2	AA	1438	U
2	AA	1439	A
2	AA	1444	G
2	AA	444(A)	A
2	AA	1445	C
2	AA	1450	C
2	AA	1451	C
2	AA	1453	A
2	AA	1454	U
2	AA	1455	G
2	AA	1460	A
2	AA	1461	G
2	AA	1464	C
2	AA	1467	C
2	AA	1469	A
2	AA	1475	G
2	AA	1477	A
2	AA	1478	G
2	AA	1480	G
2	AA	1482	U
2	AA	1483	G
2	AA	1485	G
2	AA	1490	A
2	AA	1491	G
2	AA	1492	G
2	AA	1494	A
2	AA	1495	A
2	AA	1496	A
2	AA	1497	U
2	AA	1498	C
2	AA	1499	C
2	AA	1507	A
2	AA	1508	A
2	AA	1509	C
2	AA	1510	A
2	AA	1511	A
2	AA	1512	G
2	AA	1513	C
2	AA	1514	U

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Mol	Chain	Res	Type
2	AA	1515	C
2	AA	1516	U
2	AA	1519	G
2	AA	1521	G
2	AA	1522	G
2	AA	1526	G
2	AA	1527	G
2	AA	1528	A
2	AA	1529	A
2	AA	1530	G
2	AA	1531	C
2	AA	1533	C
2	AA	1536	A
2	AA	1537	C
2	AA	1538	G
2	AA	1539	G
2	AA	1540	G
2	AA	1541	U
2	AA	1543	A
2	AA	1544	C
2	AA	1546	C
2	AA	1547	C
2	AA	1553	A
2	AA	1555	G
2	AA	1556	C
2	AA	1558	A
2	AA	1559	G
2	AA	1560	G
2	AA	1561	G
2	AA	1565	C
2	AA	1566	A
2	AA	1567	A
2	AA	1569	A
2	AA	1570	A
2	AA	1571	A
2	AA	1572	A
2	AA	1573	G
2	AA	1575	C
2	AA	1577	C
2	AA	1578	U
2	AA	1579	A
2	AA	1583	A

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Mol	Chain	Res	Type
2	AA	1585	C
2	AA	1586	A
2	AA	1587	A
2	AA	1602	U
2	AA	1603	A
2	AA	1604	C
2	AA	1607	C
2	AA	1608	A
2	AA	1609	A
2	AA	1610	A
2	AA	1611	C
2	AA	1612	C
2	AA	1614	A
2	AA	1615	C
2	AA	1616	A
2	AA	1617	C
2	AA	1618	A
2	AA	1619	G
2	AA	1621	U
2	AA	1625	C
2	AA	1626	G
2	AA	1627	G
2	AA	1634	A
2	AA	1635	G
2	AA	1639	U
2	AA	1640	C
2	AA	1641	A
2	AA	1645	G
2	AA	1646	C
2	AA	1647	G
2	AA	1648	C
2	AA	1651	G
2	AA	1652	A
2	AA	1653	G
2	AA	1655	A
2	AA	1657	C
2	AA	1658	C
2	AA	1664	A
2	AA	1665	A
2	AA	1667	G
2	AA	1668	A
2	AA	1669	A

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Mol	Chain	Res	Type
2	AA	1670	C
2	AA	1671	U
2	AA	1673	U
2	AA	1674	G
2	AA	1675	C
2	AA	1676	A
2	AA	1678	G
2	AA	1681	G
2	AA	1682	G
2	AA	1688	U
2	AA	1689	A
2	AA	1694	C
2	AA	1695	G
2	AA	1696	G
2	AA	1698	A
2	AA	1699	G
2	AA	1700	A
2	AA	1701	A
2	AA	1707	G
2	AA	1709	U
2	AA	1725	G
2	AA	1726	G
2	AA	1727	U
2	AA	1728	G
2	AA	1730	U
2	AA	1731	G
2	AA	1732	A
2	AA	1733	G
2	AA	1743	G
2	AA	1746	G
2	AA	1747	G
2	AA	1755	A
2	AA	1757	U
2	AA	1758	G
2	AA	1759	A
2	AA	1760	A
2	AA	1761	C
2	AA	1762	A
2	AA	1763	G
2	AA	1764	G
2	AA	1765	C
2	AA	1767	C

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Mol	Chain	Res	Type
2	AA	1772	G
2	AA	1773	A
2	AA	1775	U
2	AA	1776	G
2	AA	1780	A
2	AA	1781	C
2	AA	1782	C
2	AA	1783	A
2	AA	1784	A
2	AA	1785	A
2	AA	1786	A
2	AA	1787	A
2	AA	1789	A
2	AA	1790	C
2	AA	1791	A
2	AA	1796	U
2	AA	1800	C
2	AA	1801	G
2	AA	1802	A
2	AA	1804	C
2	AA	1805	U
2	AA	1809	A
2	AA	1810	A
2	AA	1811	G
2	AA	1815	A
2	AA	1816	G
2	AA	1817	G
2	AA	1820	U
2	AA	1821	A
2	AA	1826	G
2	AA	1828	G
2	AA	1829	A
2	AA	1838	C
2	AA	1839	G
2	AA	1840	G
2	AA	1847	A
2	AA	1852	C
2	AA	1857	G
2	AA	1858	G
2	AA	1860	G
2	AA	1878	G
2	AA	1881	C

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Mol	Chain	Res	Type
2	AA	1883	G
2	AA	1884	A
2	AA	1888	G
2	AA	1891	G
2	AA	1895	C
2	AA	1900	A
2	AA	1901	A
2	AA	1903	G
2	AA	1906	G
2	AA	1913	A
2	AA	1914	C
2	AA	1915	U
2	AA	1916	A
2	AA	1917	U
2	AA	1918	A
2	AA	1919	A
2	AA	1923	U
2	AA	1927	A
2	AA	1928	A
2	AA	1929	G
2	AA	1930	G
2	AA	1931	U
2	AA	1936	A
2	AA	1937	A
2	AA	1938	A
2	AA	1939	U
2	AA	1940	U
2	AA	1941	C
2	AA	1942	C
2	AA	1943	U
2	AA	1944	U
2	AA	1945	G
2	AA	1953	A
2	AA	1955	U
2	AA	1956	U
2	AA	1957	C
2	AA	1958	C
2	AA	1963	U
2	AA	1964	G
2	AA	1965	C
2	AA	1966	A
2	AA	1967	C

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Mol	Chain	Res	Type
2	AA	1968	G
2	AA	1969	A
2	AA	1970	A
2	AA	1971	A
2	AA	1972	A
2	AA	1977	A
2	AA	1978	A
2	AA	1981	A
2	AA	1982	C
2	AA	1993	U
2	AA	1996	C
2	AA	1997	G
2	AA	1998	G
2	AA	2005	A
2	AA	2012	G
2	AA	2015	A
2	AA	2016	U
2	AA	2018	G
2	AA	2020	A
2	AA	2021	C
2	AA	2023	G
2	AA	2031	A
2	AA	2032	G
2	AA	2033	A
2	AA	2034	U
2	AA	2035	G
2	AA	2036	C
2	AA	2041	U
2	AA	2043	C
2	AA	2044	C
2	AA	2046	G
2	AA	2048	G
2	AA	2050	C
2	AA	2051	A
2	AA	2052	G
2	AA	2055	C
2	AA	2056	G
2	AA	2058	A
2	AA	2060	A
2	AA	2061	G
2	AA	2062	A
2	AA	2063	C

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Mol	Chain	Res	Type
2	AA	2068	U
2	AA	2069	G
2	AA	2074	U
2	AA	2076	U
2	AA	2077	A
2	AA	2092	U
2	AA	2093	G
2	AA	2111	C
2	AA	2114	A
2	AA	2115	G
2	AA	2116	G
2	AA	2117	A
2	AA	2118	U
2	AA	2119	A
2	AA	2120	G
2	AA	2121	G
2	AA	2122	U
2	AA	2123	G
2	AA	2125	G
2	AA	2126	A
2	AA	2127	G
2	AA	2128	C
2	AA	2130	U
2	AA	2131	G
2	AA	2132	U
2	AA	2133	G
2	AA	2136	C
2	AA	2137	C
2	AA	2138	C
2	AA	2140	C
2	AA	2143	C
2	AA	2144	U
2	AA	2145	C
2	AA	2146	C
2	AA	2147	G
2	AA	2148	G
2	AA	2151	G
2	AA	2155	G
2	AA	2156	G
2	AA	2178	C
2	AA	2182	G
2	AA	2194	G

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Mol	Chain	Res	Type
2	AA	2195	C
2	AA	2196	C
2	AA	2198	A
2	AA	2199	A
2	AA	2206	C
2	AA	2207	C
2	AA	2208	U
2	AA	2210	G
2	AA	2211	G
2	AA	2212	A
2	AA	2213	U
2	AA	2217	G
2	AA	2226	C
2	AA	2236	C
2	AA	2238	G
2	AA	2239	G
2	AA	2249	U
2	AA	2250	G
2	AA	2251	G
2	AA	2258	C
2	AA	2265	U
2	AA	2266	A
2	AA	2267	A
2	AA	2268	A
2	AA	2269	A
2	AA	2270	G
2	AA	2271	G
2	AA	2276	G
2	AA	2278	A
2	AA	2281	C
2	AA	2283	C
2	AA	2284	C
2	AA	2286	A
2	AA	2287	A
2	AA	2288	A
2	AA	2289	G
2	AA	2293	C
2	AA	2296	U
2	AA	2305	A
2	AA	2306	C
2	AA	2307	G
2	AA	2308	G

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Mol	Chain	Res	Type
2	AA	2309	A
2	AA	2310	A
2	AA	2311	A
2	AA	2312	U
2	AA	2318	G
2	AA	2319	G
2	AA	2320	A
2	AA	2321	G
2	AA	2322	A
2	AA	2334	G
2	AA	2335	A
2	AA	2336	A
2	AA	2337	G
2	AA	2345	G
2	AA	2346	A
2	AA	2347	C
2	AA	2350	C
2	AA	2351	G
2	AA	2352	A
2	AA	2356	C
2	AA	2358	G
2	AA	2361	A
2	AA	2371	G
2	AA	2373	G
2	AA	2378	A
2	AA	2379	G
2	AA	2382	G
2	AA	2383	G
2	AA	2384	G
2	AA	2385	C
2	AA	2387	U
2	AA	2389	G
2	AA	2390	U
2	AA	2392	A
2	AA	2395	C
2	AA	2396	G
2	AA	2399	G
2	AA	2400	G
2	AA	2402	C
2	AA	2403	C
2	AA	2406	U
2	AA	2409	G

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Mol	Chain	Res	Type
2	AA	2416	C
2	AA	2417	C
2	AA	2423	U
2	AA	2424	C
2	AA	2425	A
2	AA	2426	A
2	AA	2427	C
2	AA	2428	G
2	AA	2429	G
2	AA	2430	A
2	AA	2431	U
2	AA	2434	A
2	AA	2435	A
2	AA	2437	U
2	AA	2438	U
2	AA	2439	A
2	AA	2440	C
2	AA	2441	C
2	AA	2448	A
2	AA	2449	U
2	AA	2458	G
2	AA	2460	U
2	AA	2465	C
2	AA	2469	A
2	AA	2470	G
2	AA	2472	G
2	AA	2476	A
2	AA	2479	G
2	AA	2480	C
2	AA	2481	G
2	AA	2482	G
2	AA	2490	G
2	AA	2491	U
2	AA	2493	U
2	AA	2494	G
2	AA	2498	C
2	AA	2499	C
2	AA	2502	G
2	AA	2503	A
2	AA	2504	U
2	AA	2505	G
2	AA	2506	U

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Mol	Chain	Res	Type
2	AA	2508	G
2	AA	2513	G
2	AA	2514	U
2	AA	2515	C
2	AA	2518	A
2	AA	2519	U
2	AA	2520	C
2	AA	2521	C
2	AA	2526	G
2	AA	2529	G
2	AA	2531	A
2	AA	2532	G
2	AA	2542	A
2	AA	2543	G
2	AA	2549	G
2	AA	2553	G
2	AA	2554	U
2	AA	2555	U
2	AA	2556	C
2	AA	2562	U
2	AA	2566	A
2	AA	2567	G
2	AA	2574	G
2	AA	2575	C
2	AA	2576	G
2	AA	2577	A
2	AA	2578	G
2	AA	2582	G
2	AA	2585	U
2	AA	2586	C
2	AA	2593	U
2	AA	2597	G
2	AA	2602	A
2	AA	2603	G
2	AA	2606	C
2	AA	2607	G
2	AA	2609	U
2	AA	2610	C
2	AA	2611	U
2	AA	2612	C
2	AA	2613	U
2	AA	2614	A

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Mol	Chain	Res	Type
2	AA	2615	U
2	AA	2616	C
2	AA	2617	C
2	AA	2629	A
2	AA	2630	G
2	AA	2634	G
2	AA	2638	G
2	AA	2645	G
2	AA	2648	C
2	AA	2654	A
2	AA	2655	G
2	AA	2663	G
2	AA	2666	C
2	AA	2667	C
2	AA	2682	U
2	AA	2689	U
2	AA	2690	C
2	AA	2691	C
2	AA	2698	U
2	AA	2701	C
2	AA	2702	U
2	AA	2703	C
2	AA	2706	G
2	AA	2707	G
2	AA	2708	G
2	AA	2712	U
2	AA	712(A)	A
2	AA	2713	A
2	AA	2714	G
2	AA	2717	G
2	AA	2719	G
2	AA	2725	A
2	AA	2727	G
2	AA	2732	G
2	AA	2733	A
2	AA	2742	C
2	AA	2748	A
2	AA	2749	A
2	AA	2750	A
2	AA	2751	G
2	AA	2752	C
2	AA	2753	A

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Mol	Chain	Res	Type
2	AA	2756	U
2	AA	2757	A
2	AA	2758	A
2	AA	2759	G
2	AA	2765	A
2	AA	2766	G
2	AA	2769	C
2	AA	2776	A
2	AA	2777	G
2	AA	2778	A
2	AA	2779	U
2	AA	2780	G
2	AA	2781	A
2	AA	2782	G
2	AA	2787	C
2	AA	2789	C
2	AA	2790	A
2	AA	2791	C
2	AA	2794	C
2	AA	2795	G
2	AA	2797	U
2	AA	2798	C
2	AA	2801	A
2	AA	2803	C
2	AA	2804	C
2	AA	2805	G
2	AA	2807	G
2	AA	2808	U
2	AA	2809	A
2	AA	2810	A
2	AA	2811	G
2	AA	2818	G
2	AA	2819	G
2	AA	2820	A
2	AA	2821	A
2	AA	2823	A
2	AA	2832	U
2	AA	2833	G
2	AA	2834	G
2	AA	2835	A
2	AA	2836	U
2	AA	2837	G

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Mol	Chain	Res	Type
2	AA	2844	G
2	AA	2845	G
2	AA	2850	A
2	AA	2851	A
2	AA	2853	C
2	AA	2856	C
2	AA	2858	C
2	AA	2860	A
2	AA	2861	G
2	AA	2862	G
2	AA	2866	U
2	AA	2867	G
2	AA	2868	A
2	AA	2872	G
2	AA	2874	C
2	AA	2877	G
2	AA	2878	U
2	AA	2879	C
2	AA	2880	C
2	AA	2882	A
2	AA	2883	A
2	AA	2893	G
2	AA	2894	G
2	AA	2895	U
2	AA	2900	A
34	BA	6	G
34	BA	8	A
34	BA	9	G
34	BA	13	U
34	BA	14	U
34	BA	31	G
34	BA	32	A
34	BA	39	G
34	BA	45	U
34	BA	48	C
34	BA	49	U
34	BA	50	A
34	BA	51	A
34	BA	52	G
34	BA	61	G
34	BA	62	U
34	BA	65	U

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Mol	Chain	Res	Type
34	BA	66	G
34	BA	81	U
34	BA	90	U
34	BA	101	A
34	BA	106	C
34	BA	110	C
34	BA	116	A
34	BA	120	A
34	BA	121	C
34	BA	122	G
34	BA	123	C
34	BA	124	G
34	BA	125	U
34	BA	130	A
34	BA	131	C
34	BA	132	C
34	BA	153	C
34	BA	163	C
34	BA	182	U
34	BA	190(D)	U
34	BA	190(E)	U
34	BA	190(F)	G
34	BA	190(G)	G
34	BA	193	C
34	BA	195	A
34	BA	197	A
34	BA	198	G
34	BA	203	U
34	BA	204	U
34	BA	216	G
34	BA	225	C
34	BA	236	G
34	BA	244	U
34	BA	245	C
34	BA	247	G
34	BA	251	G
34	BA	252	U
34	BA	253	U
34	BA	260	G
34	BA	261	U
34	BA	264	U
34	BA	265	G

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Mol	Chain	Res	Type
34	BA	266	G
34	BA	267	C
34	BA	275	G
34	BA	279	A
34	BA	280	C
34	BA	281	G
34	BA	282	A
34	BA	283	C
34	BA	289	G
34	BA	293	G
34	BA	296	U
34	BA	306	G
34	BA	308	C
34	BA	309	G
34	BA	315	A
34	BA	316	G
34	BA	317	G
34	BA	321	A
34	BA	323	U
34	BA	325	A
34	BA	328	C
34	BA	329	A
34	BA	330	C
34	BA	332	G
34	BA	336	C
34	BA	345	C
34	BA	346	G
34	BA	348	G
34	BA	351	G
34	BA	352	C
34	BA	353	A
34	BA	355	C
34	BA	367	U
34	BA	368	U
34	BA	373	A
34	BA	379	C
34	BA	386	C
34	BA	387	U
34	BA	388	G
34	BA	389	A
34	BA	390	C
34	BA	391	G

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Mol	Chain	Res	Type
34	BA	397	A
34	BA	398	C
34	BA	405	U
34	BA	410	G
34	BA	412	A
34	BA	413	G
34	BA	422	C
34	BA	423	G
34	BA	427	U
34	BA	428	G
34	BA	429	U
34	BA	430	A
34	BA	439	A
34	BA	440	A
34	BA	448	A
34	BA	451	A
34	BA	452	A
34	BA	453	A
34	BA	455	C
34	BA	460	A
34	BA	461	C
34	BA	462	G
34	BA	474	G
34	BA	482	A
34	BA	484	G
34	BA	485	G
34	BA	486	U
34	BA	487	A
34	BA	496	A
34	BA	497	A
34	BA	498	U
34	BA	500	G
34	BA	505	G
34	BA	508	C
34	BA	509	A
34	BA	510	A
34	BA	511	C
34	BA	517	G
34	BA	518	C
34	BA	519	C
34	BA	520	A
34	BA	521	G

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Mol	Chain	Res	Type
34	BA	523	A
34	BA	527	G
34	BA	530	G
34	BA	531	U
34	BA	532	A
34	BA	533	A
34	BA	535	A
34	BA	536	C
34	BA	547	A
34	BA	548	G
34	BA	553	A
34	BA	555	C
34	BA	559	A
34	BA	560	U
34	BA	561	U
34	BA	563	A
34	BA	566	G
34	BA	567	G
34	BA	570	G
34	BA	571	U
34	BA	572	A
34	BA	573	A
34	BA	575	G
34	BA	576	G
34	BA	579	G
34	BA	582	U
34	BA	583	A
34	BA	588	G
34	BA	589	C
34	BA	596	C
34	BA	598	U
34	BA	607	A
34	BA	609	A
34	BA	610	G
34	BA	623	C
34	BA	629	G
34	BA	642	A
34	BA	652	U
34	BA	653	A
34	BA	665	A
34	BA	671	G
34	BA	672	U

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Mol	Chain	Res	Type
34	BA	673	G
34	BA	674	G
34	BA	678	U
34	BA	687	A
34	BA	688	G
34	BA	693	G
34	BA	694	A
34	BA	698	G
34	BA	702	A
34	BA	703	G
34	BA	704	A
34	BA	714	G
34	BA	718	G
34	BA	719	C
34	BA	721	G
34	BA	724	G
34	BA	730	G
34	BA	731	G
34	BA	745	C
34	BA	749	C
34	BA	752	G
34	BA	753	A
34	BA	759	A
34	BA	760	G
34	BA	761	G
34	BA	766	A
34	BA	767	A
34	BA	773	G
34	BA	775	G
34	BA	776	G
34	BA	777	A
34	BA	780	A
34	BA	781	A
34	BA	782	A
34	BA	785	G
34	BA	791	G
34	BA	793	U
34	BA	794	A
34	BA	805	C
34	BA	812	C
34	BA	813	U
34	BA	814	A

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Mol	Chain	Res	Type
34	BA	815	A
34	BA	816	A
34	BA	817	C
34	BA	818	G
34	BA	819	A
34	BA	820	U
34	BA	821	G
34	BA	828	A
34	BA	839	U
34	BA	840	C
34	BA	841	U
34	BA	848	C
34	BA	855	G
34	BA	865	A
34	BA	866	C
34	BA	870	U
34	BA	871	U
34	BA	872	A
34	BA	873	A
34	BA	874	G
34	BA	884	U
34	BA	885	G
34	BA	889	A
34	BA	890	G
34	BA	891	U
34	BA	901	A
34	BA	902	G
34	BA	906	G
34	BA	910	C
34	BA	911	U
34	BA	913	A
34	BA	914	A
34	BA	927	G
34	BA	934	C
34	BA	935	A
34	BA	942	G
34	BA	945	G
34	BA	950	U
34	BA	956	U
34	BA	958	A
34	BA	960	U
34	BA	961	U

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Mol	Chain	Res	Type
34	BA	966	G
34	BA	968	A
34	BA	969	A
34	BA	972	C
34	BA	974	A
34	BA	975	A
34	BA	976	G
34	BA	977	A
34	BA	982	U
34	BA	983	A
34	BA	991	U
34	BA	992	U
34	BA	993	G
34	BA	994	A
34	BA	995	C
34	BA	997	U
34	BA	998	G
34	BA	1004	A
34	BA	1005	A
34	BA	1007	C
34	BA	1013	G
34	BA	1023	G
34	BA	1025	U
34	BA	1026	G
34	BA	1034	G
34	BA	1042	G
34	BA	1050	G
34	BA	1053	G
34	BA	1054	C
34	BA	1055	A
34	BA	1056	U
34	BA	1064	G
34	BA	1065	U
34	BA	1066	C
34	BA	1068	G
34	BA	1079	G
34	BA	1084	G
34	BA	1085	U
34	BA	1086	U
34	BA	1096	C
34	BA	1097	C
34	BA	1100	C

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Mol	Chain	Res	Type
34	BA	1101	A
34	BA	1102	A
34	BA	1107	C
34	BA	1117	G
34	BA	1118	C
34	BA	1122	U
34	BA	1126	U
34	BA	1127	G
34	BA	1129	C
34	BA	1130	A
34	BA	1131	G
34	BA	1137	C
34	BA	1138	G
34	BA	1139	G
34	BA	1140	C
34	BA	1145	C
34	BA	1146	A
34	BA	1148	U
34	BA	1151	A
34	BA	1152	A
34	BA	1157	A
34	BA	1158	C
34	BA	1159	U
34	BA	1160	G
34	BA	1161	C
34	BA	1177	G
34	BA	1183	A
34	BA	1184	G
34	BA	1185	G
34	BA	1186	G
34	BA	1188	A
34	BA	1190	G
34	BA	1191	A
34	BA	1196	U
34	BA	1197	G
34	BA	1201	A
34	BA	1202	G
34	BA	1212	U
34	BA	1213	A
34	BA	1214	C
34	BA	1215	G
34	BA	1225	A

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Mol	Chain	Res	Type
34	BA	1226	C
34	BA	1227	A
34	BA	1229	A
34	BA	1231	G
34	BA	1240	U
34	BA	1241	G
34	BA	1249	C
34	BA	1250	A
34	BA	1251	A
34	BA	1256	A
34	BA	1257	U
34	BA	1258	G
34	BA	1260	C
34	BA	1269	A
34	BA	1279	A
34	BA	1280	A
34	BA	1281	U
34	BA	1282	C
34	BA	1285	A
34	BA	1286	A
34	BA	1287	A
34	BA	1289	A
34	BA	1290	G
34	BA	1292	U
34	BA	1297	C
34	BA	1298	C
34	BA	1299	A
34	BA	1301	U
34	BA	1302	U
34	BA	1303	C
34	BA	1305	G
34	BA	1316	G
34	BA	1317	C
34	BA	1320	C
34	BA	1322	C
34	BA	1323	G
34	BA	1331	G
34	BA	1332	A
34	BA	1333	A
34	BA	1337	G
34	BA	1345	U
34	BA	1346	A

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Mol	Chain	Res	Type
34	BA	1347	G
34	BA	1348	U
34	BA	1353	G
34	BA	1356	G
34	BA	1360	A
34	BA	1362	C
34	BA	1363	A
34	BA	1364	U
34	BA	1365	G
34	BA	1371	G
34	BA	1379	G
34	BA	1381	U
34	BA	1382	C
34	BA	1394	A
34	BA	1395	C
34	BA	1397	C
34	BA	1398	A
34	BA	1399	C
34	BA	1400	C
34	BA	1401	G
34	BA	1437	C
34	BA	1440	C
34	BA	1442	G
34	BA	1443	G
34	BA	1446	A
34	BA	1447	G
34	BA	1449	C
34	BA	1452	C
34	BA	1453	G
34	BA	1454	G
34	BA	1467	G
34	BA	1481	U
34	BA	1482	G
34	BA	1490	C
34	BA	1491	G
34	BA	1493	A
34	BA	1497	G
34	BA	1498	U
34	BA	1499	A
34	BA	1502	A
34	BA	1503	A
34	BA	1504	G

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Mol	Chain	Res	Type
34	BA	1505	G
34	BA	1506	U
34	BA	1507	A
34	BA	1516	G
34	BA	1517	G
34	BA	1518	A
34	BA	1520	G
34	BA	1529	G
34	BA	1530	G
34	BA	1531	A
34	BA	1533	C
34	BA	1534	A
34	BA	1535	C
34	BA	1540	U
34	BA	1542	U
35	BB	2	C
35	BB	8	U
35	BB	10	G
35	BB	16	U
35	BB	17	U
35	BB	18	G
35	BB	19	G
35	BB	20	G
35	BB	21	A
35	BB	31	A
35	BB	32	C
35	BB	34	G
35	BB	35	A
35	BB	37	G
35	BB	41	U
35	BB	42	G
35	BB	43	G
35	BB	44	A
35	BB	45	G
35	BB	46	G
35	BB	47	U
35	BB	48	C
35	BB	49	C
35	BB	53	G
35	BB	54	U
35	BB	58	A
35	BB	59	U

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Mol	Chain	Res	Type
35	BB	60	C
35	BB	61	C
35	BB	64	A
35	BB	69	U
35	BB	74	C
35	BB	75	C
35	BB	76	A
35	BC	8	U
35	BC	10	G
35	BC	15	G
35	BC	16	U
35	BC	17	U
35	BC	18	G
35	BC	19	G
35	BC	20	G
35	BC	21	A
35	BC	23	A
35	BC	26	G
35	BC	31	A
35	BC	35	A
35	BC	36	A
35	BC	37	G
35	BC	41	U
35	BC	43	G
35	BC	46	G
35	BC	47	U
35	BC	48	C
35	BC	49	C
35	BC	50	U
35	BC	58	A
35	BC	59	U
35	BC	60	C
35	BC	61	C
35	BC	63	C
35	BC	64	A
35	BC	74	C
35	BC	75	C
35	BC	76	A
36	B1	7	A
36	B1	8	A
36	B1	14	U
36	B1	17	G

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Mol	Chain	Res	Type
36	B1	22	C
36	B1	26	C
36	B1	37	C
36	B1	39	A
36	B1	47	U
36	B1	52	A
36	B1	55	U
36	B1	56	A
36	B1	57	A
36	B1	58	A
36	B1	59	A
36	B1	60	A
36	B1	61	U
36	B1	62	G
36	B1	63	C
36	B1	64	C
36	B1	66	G
36	B1	69	A
36	B1	70	U
36	B1	71	A

All (485) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	AB	40	U
1	AB	56	G
1	AB	61	G
1	AB	66	A
1	AB	98	G
2	AA	13	A
2	AA	33	U
2	AA	51	G
2	AA	71	A
2	AA	72	U
2	AA	74	A
2	AA	83	G
2	AA	90	U
2	AA	108	U
2	AA	112	U
2	AA	119	A
2	AA	125	G
2	AA	128	C

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Mol	Chain	Res	Type
2	AA	139	G
2	AA	142	G
2	AA	155	C
2	AA	177	G
2	AA	181	A
2	AA	196	A
2	AA	199	A
2	AA	204	A
2	AA	205	G
2	AA	215	G
2	AA	221	A
2	AA	242	G
2	AA	251	A
2	AA	265	A
2	AA	270(L)	U
2	AA	270(M)	U
2	AA	270(Y)	G
2	AA	270(Z)	U
2	AA	271(B)	G
2	AA	271(C)	U
2	AA	301	G
2	AA	323	G
2	AA	329	G
2	AA	331	A
2	AA	332	A
2	AA	346	A
2	AA	360	G
2	AA	370	G
2	AA	371	A
2	AA	386	G
2	AA	387	U
2	AA	403	U
2	AA	442	G
2	AA	446	G
2	AA	455	C
2	AA	492	A
2	AA	506	G
2	AA	508	G
2	AA	526	A
2	AA	529	A
2	AA	530	G
2	AA	532	A

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Mol	Chain	Res	Type
2	AA	543	C
2	AA	548	A
2	AA	554	U
2	AA	559	G
2	AA	574	C
2	AA	587	C
2	AA	616	A
2	AA	620	G
2	AA	670	A
2	AA	685	A
2	AA	686	G
2	AA	687	C
2	AA	704	G
2	AA	726	G
2	AA	728	G
2	AA	740	U
2	AA	746	A
2	AA	747	U
2	AA	752	A
2	AA	762	U
2	AA	774	A
2	AA	776	G
2	AA	782	A
2	AA	783	A
2	AA	787	U
2	AA	788	A
2	AA	789	A
2	AA	790	C
2	AA	792	G
2	AA	800	A
2	AA	801	G
2	AA	811	U
2	AA	830	G
2	AA	846	C
2	AA	886	C
2	AA	917	A
2	AA	918	A
2	AA	930	U
2	AA	931	G
2	AA	944	G
2	AA	945	A
2	AA	957	A

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Mol	Chain	Res	Type
2	AA	958	U
2	AA	960	A
2	AA	961	C
2	AA	974	G
2	AA	974(A)	C
2	AA	983	A
2	AA	989	G
2	AA	1008	C
2	AA	1011	G
2	AA	1022	G
2	AA	1029	A
2	AA	1069	A
2	AA	1083	U
2	AA	1085	A
2	AA	1100	C
2	AA	1110	G
2	AA	1111	A
2	AA	1130	U
2	AA	1131	G
2	AA	1140	C
2	AA	1141	U
2	AA	1173	G
2	AA	1178	C
2	AA	1179	C
2	AA	1180	C
2	AA	1181	C
2	AA	1183	G
2	AA	1206	G
2	AA	1210	A
2	AA	1211	U
2	AA	1212	G
2	AA	1220	A
2	AA	1237	A
2	AA	1241	A
2	AA	1247	A
2	AA	1248	G
2	AA	1250	G
2	AA	1265	A
2	AA	1272	A
2	AA	1288	U
2	AA	1300	U
2	AA	1301	A

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Mol	Chain	Res	Type
2	AA	1302	A
2	AA	1312	U
2	AA	1324	G
2	AA	1341	U
2	AA	1342	A
2	AA	1364	G
2	AA	1378	A
2	AA	1397	U
2	AA	1406	U
2	AA	1427	A
2	AA	1428	C
2	AA	1437	C
2	AA	1444	G
2	AA	444(A)	A
2	AA	1477	A
2	AA	1489	U
2	AA	1491	G
2	AA	1496	A
2	AA	1498	C
2	AA	1509	C
2	AA	1515	C
2	AA	1525	G
2	AA	1536	A
2	AA	1545	A
2	AA	1552	G
2	AA	1566	A
2	AA	1567	A
2	AA	1568	G
2	AA	1572	A
2	AA	1602	U
2	AA	1610	A
2	AA	1616	A
2	AA	1618	A
2	AA	1626	G
2	AA	1634	A
2	AA	1647	G
2	AA	1667	G
2	AA	1668	A
2	AA	1672	C
2	AA	1673	U
2	AA	1674	G
2	AA	1676	A

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Mol	Chain	Res	Type
2	AA	1681	G
2	AA	1693	U
2	AA	1694	C
2	AA	1698	A
2	AA	1699	G
2	AA	1742	C
2	AA	1758	G
2	AA	1780	A
2	AA	1784	A
2	AA	1788	C
2	AA	1799	G
2	AA	1800	C
2	AA	1809	A
2	AA	1815	A
2	AA	1819	A
2	AA	1820	U
2	AA	1828	G
2	AA	1900	A
2	AA	1914	C
2	AA	1916	A
2	AA	1929	G
2	AA	1930	G
2	AA	1936	A
2	AA	1937	A
2	AA	1938	A
2	AA	1943	U
2	AA	1944	U
2	AA	1954	G
2	AA	1955	U
2	AA	1964	G
2	AA	1970	A
2	AA	1977	A
2	AA	1980	G
2	AA	1992	G
2	AA	1996	C
2	AA	2019	A
2	AA	2022	U
2	AA	2032	G
2	AA	2033	A
2	AA	2035	G
2	AA	2045	C
2	AA	2047	U

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Mol	Chain	Res	Type
2	AA	2049	G
2	AA	2051	A
2	AA	2059	A
2	AA	2067	G
2	AA	2076	U
2	AA	2110	G
2	AA	2113	U
2	AA	2119	A
2	AA	2125	G
2	AA	2210	G
2	AA	2225	A
2	AA	2249	U
2	AA	2268	A
2	AA	2275	C
2	AA	2282	G
2	AA	2287	A
2	AA	2293	C
2	AA	2318	G
2	AA	2320	A
2	AA	2324	C
2	AA	2333	A
2	AA	2344	U
2	AA	2346	A
2	AA	2384	G
2	AA	2391	G
2	AA	2398	U
2	AA	2423	U
2	AA	2425	A
2	AA	2434	A
2	AA	2439	A
2	AA	2447	G
2	AA	2448	A
2	AA	2449	U
2	AA	2451	A
2	AA	2481	G
2	AA	2490	G
2	AA	2493	U
2	AA	2497	A
2	AA	2501	C
2	AA	2502	G
2	AA	2503	A
2	AA	2517	C

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Mol	Chain	Res	Type
2	AA	2519	U
2	AA	2542	A
2	AA	2553	G
2	AA	2576	G
2	AA	2602	A
2	AA	2606	C
2	AA	2609	U
2	AA	2610	C
2	AA	2612	C
2	AA	2613	U
2	AA	2654	A
2	AA	2662	A
2	AA	2689	U
2	AA	2712	U
2	AA	2726	U
2	AA	2756	U
2	AA	2781	A
2	AA	2790	A
2	AA	2848	G
2	AA	2849	U
2	AA	2866	U
2	AA	2867	G
2	AA	2873	A
2	AA	2879	C
2	AA	2882	A
34	BA	5	U
34	BA	8	A
34	BA	13	U
34	BA	30	U
34	BA	47	C
34	BA	48	C
34	BA	50	A
34	BA	51	A
34	BA	60	A
34	BA	99	C
34	BA	109	A
34	BA	115	G
34	BA	119	A
34	BA	121	C
34	BA	129(A)	G
34	BA	181	G
34	BA	190(F)	G

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Mol	Chain	Res	Type
34	BA	197	A
34	BA	202	U
34	BA	203	U
34	BA	204	U
34	BA	243	A
34	BA	244	U
34	BA	246	A
34	BA	250	A
34	BA	251	G
34	BA	266	G
34	BA	274	A
34	BA	279	A
34	BA	280	C
34	BA	281	G
34	BA	305	G
34	BA	327	A
34	BA	328	C
34	BA	329	A
34	BA	344	A
34	BA	345	C
34	BA	351	G
34	BA	366	C
34	BA	367	U
34	BA	372	C
34	BA	388	G
34	BA	422	C
34	BA	428	G
34	BA	429	U
34	BA	438	G
34	BA	447	G
34	BA	451	A
34	BA	481	G
34	BA	483	C
34	BA	484	G
34	BA	496	A
34	BA	497	A
34	BA	499	A
34	BA	508	C
34	BA	509	A
34	BA	511	C
34	BA	517	G
34	BA	518	C

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Mol	Chain	Res	Type
34	BA	522	C
34	BA	531	U
34	BA	535	A
34	BA	547	A
34	BA	559	A
34	BA	560	U
34	BA	562	C
34	BA	566	G
34	BA	575	G
34	BA	576	G
34	BA	652	U
34	BA	653	A
34	BA	687	A
34	BA	701	C
34	BA	702	A
34	BA	703	G
34	BA	717	C
34	BA	721	G
34	BA	748	C
34	BA	752	G
34	BA	753	A
34	BA	758	G
34	BA	772	U
34	BA	781	A
34	BA	792	A
34	BA	793	U
34	BA	812	C
34	BA	816	A
34	BA	817	C
34	BA	818	G
34	BA	819	A
34	BA	870	U
34	BA	871	U
34	BA	872	A
34	BA	873	A
34	BA	889	A
34	BA	913	A
34	BA	934	C
34	BA	945	G
34	BA	960	U
34	BA	965	A
34	BA	968	A

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Mol	Chain	Res	Type
34	BA	974	A
34	BA	975	A
34	BA	982	U
34	BA	992	U
34	BA	993	G
34	BA	1004	A
34	BA	1049	U
34	BA	1065	U
34	BA	1067	A
34	BA	1084	G
34	BA	1085	U
34	BA	1100	C
34	BA	1101	A
34	BA	1124	G
34	BA	1125	U
34	BA	1139	G
34	BA	1145	C
34	BA	1157	A
34	BA	1159	U
34	BA	1182	G
34	BA	1190	G
34	BA	1196	U
34	BA	1201	A
34	BA	1212	U
34	BA	1214	C
34	BA	1224	G
34	BA	1226	C
34	BA	1240	U
34	BA	1257	U
34	BA	1279	A
34	BA	1280	A
34	BA	1281	U
34	BA	1285	A
34	BA	1297	C
34	BA	1298	C
34	BA	1300	G
34	BA	1302	U
34	BA	1322	C
34	BA	1331	G
34	BA	1345	U
34	BA	1346	A
34	BA	1347	G

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Mol	Chain	Res	Type
34	BA	1362	C
34	BA	1363	A
34	BA	1380	U
34	BA	1394	A
34	BA	1397	C
34	BA	1399	C
34	BA	1400	C
34	BA	1446	A
34	BA	1452	C
34	BA	1490	C
34	BA	1498	U
34	BA	1502	A
34	BA	1503	A
34	BA	1504	G
34	BA	1505	G
34	BA	1506	U
34	BA	1528	U
34	BA	1529	G
35	BB	1	G
35	BB	7	U
35	BB	9	A
35	BB	16	U
35	BB	18	G
35	BB	19	G
35	BB	20	G
35	BB	34	G
35	BB	36	A
35	BB	40	C
35	BB	42	G
35	BB	44	A
35	BB	49	C
35	BB	58	A
35	BB	59	U
35	BB	60	C
35	BC	7	U
35	BC	9	A
35	BC	16	U
35	BC	19	G
35	BC	35	A
35	BC	36	A
35	BC	58	A
35	BC	60	C

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Mol	Chain	Res	Type
35	BC	73	A
36	B1	59	A
36	B1	60	A
36	B1	62	G
36	B1	70	U

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](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

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	AB	123/123 (100%)	-0.44	0 100 100	308, 357, 402, 412	0
2	AA	2872/2915 (98%)	-0.45	18 (0%) 90 87	232, 307, 404, 474	0
3	AC	221/228 (96%)	-0.02	4 (1%) 71 66	384, 428, 464, 467	0
4	AD	173/178 (97%)	0.54	14 (8%) 15 17	243, 279, 292, 298	0
5	AE	191/338 (56%)	0.62	39 (20%) 1 5	258, 311, 397, 403	0
6	AF	189/246 (76%)	-0.34	2 (1%) 82 78	233, 399, 427, 434	0
7	AG	122/176 (69%)	-0.32	2 (1%) 74 68	350, 366, 443, 447	0
8	AH	164/177 (92%)	-0.34	1 (0%) 90 87	320, 351, 366, 370	0
9	AI	128/128 (100%)	1.43	33 (25%) 1 4	580, 591, 602, 603	0
9	AJ	128/128 (100%)	2.07	56 (43%) 0 3	569, 582, 594, 596	0
10	AK	148/149 (99%)	-0.08	4 (2%) 58 53	305, 329, 353, 361	0
11	AL	133/141 (94%)	0.16	8 (6%) 25 24	455, 504, 541, 543	0
12	AM	117/145 (80%)	0.31	13 (11%) 7 11	286, 310, 364, 368	0
13	AN	122/122 (100%)	0.35	11 (9%) 12 14	245, 262, 277, 293	0
14	AO	84/164 (51%)	0.28	6 (7%) 19 20	330, 452, 471, 473	0
15	AP	138/138 (100%)	0.49	10 (7%) 18 19	283, 324, 364, 379	0
16	AQ	113/186 (60%)	-0.76	0 100 100	317, 367, 386, 390	0
17	AR	52/66 (78%)	0.71	10 (19%) 2 5	251, 267, 285, 288	0
18	AS	108/113 (95%)	0.21	3 (2%) 56 51	280, 311, 324, 332	0
19	AT	76/84 (90%)	-0.05	4 (5%) 30 29	329, 344, 360, 363	0
20	AU	110/119 (92%)	-0.04	9 (8%) 14 16	647, 661, 722, 724	0
21	AV	177/253 (69%)	-0.02	8 (4%) 37 34	295, 365, 416, 424	0
22	AW	64/70 (91%)	0.16	2 (3%) 52 47	346, 364, 373, 375	0
23	AX	60/60 (100%)	-0.18	0 100 100	291, 306, 315, 316	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
24	A0	105/118 (88%)	-0.12	3 (2%) 55 49	263, 281, 304, 308	0
25	A1	117/118 (99%)	-0.50	1 (0%) 85 81	267, 297, 311, 317	0
26	A2	100/100 (100%)	0.80	21 (21%) 1 5	416, 430, 462, 470	0
27	A3	86/91 (94%)	0.60	11 (12%) 5 9	359, 389, 475, 486	0
28	A4	73/73 (100%)	0.04	7 (9%) 10 13	319, 354, 373, 378	0
29	A5	58/60 (96%)	0.09	4 (6%) 20 20	259, 314, 361, 373	0
30	A6	53/82 (64%)	0.21	4 (7%) 17 19	287, 316, 332, 340	0
31	A7	46/47 (97%)	0.24	2 (4%) 39 35	316, 339, 352, 357	0
32	A8	63/64 (98%)	0.02	1 (1%) 74 68	262, 282, 294, 306	0
33	A9	35/36 (97%)	-0.55	0 100 100	281, 303, 316, 319	0
34	BA	1515/1522 (99%)	-0.46	5 (0%) 94 92	251, 312, 419, 609	0
35	BB	76/76 (100%)	8.23	61 (80%) 0 2	631, 651, 667, 669	0
35	BC	76/76 (100%)	-0.65	0 100 100	273, 310, 328, 337	0
36	B1	66/78 (84%)	6.57	43 (65%) 0 2	337, 829, 918, 922	0
37	BE	234/256 (91%)	0.22	22 (9%) 11 13	293, 321, 364, 385	0
38	BF	206/239 (86%)	0.82	43 (20%) 1 5	301, 349, 377, 382	0
39	BG	208/209 (99%)	0.09	10 (4%) 34 31	276, 299, 318, 329	0
40	BH	150/162 (92%)	0.71	23 (15%) 3 7	277, 295, 315, 324	0
41	BI	101/101 (100%)	1.20	28 (27%) 1 4	299, 318, 330, 336	0
42	BJ	155/156 (99%)	0.07	6 (3%) 43 39	326, 357, 370, 373	0
43	BK	138/138 (100%)	0.22	10 (7%) 18 19	266, 284, 297, 306	0
44	BL	127/128 (99%)	-0.33	0 100 100	385, 487, 499, 500	0
45	BM	98/105 (93%)	0.91	16 (16%) 2 7	337, 394, 423, 424	0
46	BN	119/129 (92%)	0.26	12 (10%) 9 12	288, 307, 330, 334	0
47	BO	124/135 (91%)	0.26	7 (5%) 28 27	265, 282, 319, 328	0
48	BP	125/126 (99%)	-0.89	0 100 100	350, 370, 412, 415	0
49	BQ	60/61 (98%)	-0.04	2 (3%) 50 44	322, 352, 360, 365	0
50	BR	88/89 (98%)	-0.36	3 (3%) 49 44	277, 288, 315, 318	0
51	BS	83/88 (94%)	-0.38	1 (1%) 81 75	271, 284, 303, 316	0
52	BT	104/105 (99%)	-0.18	3 (2%) 55 49	249, 268, 323, 344	0
53	BU	73/88 (82%)	0.32	10 (13%) 4 8	259, 296, 323, 348	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
54	BV	80/93 (86%)	0.23	6 (7%) 17 19	353, 369, 395, 399	0
55	BW	99/106 (93%)	-0.51	0 100 100	264, 281, 292, 300	0
56	BX	24/27 (88%)	-1.09	0 100 100	475, 489, 493, 496	0
All	All	10678/11529 (92%)	0.01	622 (5%) 26 25	232, 322, 533, 922	0

All (622) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
36	B1	15	A	22.6
35	BB	4	G	21.1
36	B1	42	G	20.4
36	B1	17	G	19.5
35	BB	5	A	18.8
35	BB	15	G	18.5
35	BB	69	U	17.5
36	B1	39	A	17.4
2	AA	1532	C	17.3
36	B1	40	C	17.3
35	BB	14	A	17.3
36	B1	22	C	17.1
36	B1	31	G	16.5
36	B1	43	C	16.4
35	BB	70	C	16.4
2	AA	1531	C	16.2
35	BB	67	A	15.9
36	B1	32	G	15.8
35	BB	68	U	15.8
12	AM	72	PRO	15.5
36	B1	13	G	15.1
35	BB	22	G	14.9
35	BB	47	U	14.7
35	BB	21	A	14.7
36	B1	41	U	14.7
35	BB	3	G	14.6
36	B1	14	U	14.5
35	BB	45	G	14.4
36	B1	38	C	14.3
36	B1	16	U	14.2
35	BB	1	G	14.1
9	AJ	1	MET	13.8
35	BB	6	U	13.7

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Mol	Chain	Res	Type	RSRZ
15	AP	29	ALA	13.6
35	BB	46	G	13.4
35	BB	48	C	13.2
2	AA	141	A	13.1
35	BB	20	G	12.8
9	AI	87	GLU	12.7
35	BB	71	G	12.6
36	B1	21	U	12.4
35	BB	51	G	12.2
35	BB	9	A	12.1
27	A3	6	GLY	12.0
35	BB	13	C	12.0
35	BB	11	C	11.7
35	BB	10	G	11.7
35	BB	16	U	11.5
35	BB	59	U	11.4
27	A3	86	THR	11.3
35	BB	73	A	11.0
35	BB	7	U	10.9
2	AA	1533	C	10.8
35	BB	57	G	10.8
9	AI	88	ALA	10.7
35	BB	2	C	10.6
35	BB	23	A	10.5
9	AI	86	LYS	9.9
36	B1	37	C	9.8
9	AI	84	GLY	9.8
35	BB	8	U	9.8
9	AJ	2	THR	9.6
36	B1	33	G	9.6
36	B1	20	A	9.5
35	BB	49	C	9.5
36	B1	19	G	9.0
35	BB	74	C	8.9
9	AJ	109	GLU	8.7
35	BB	72	C	8.7
36	B1	18	U	8.7
35	BB	50	U	8.5
35	BB	60	C	8.5
35	BB	44	A	8.4
36	B1	23	U	8.4
35	BB	66	A	8.4

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Mol	Chain	Res	Type	RSRZ
27	A3	85	GLN	8.3
36	B1	36	A	8.3
35	BB	58	A	8.1
36	B1	44	A	8.0
35	BB	18	G	7.9
27	A3	87	GLU	7.8
38	BF	201	TYR	7.8
12	AM	133	GLY	7.7
35	BB	24	G	7.6
9	AI	85	LEU	7.6
36	B1	25	U	7.6
36	B1	24	A	7.5
35	BB	12	U	7.5
36	B1	12	U	7.5
36	B1	30	U	7.4
36	B1	35	C	7.3
37	BE	234	PRO	7.3
36	B1	29	G	7.1
35	BB	52	U	7.0
35	BB	65	G	7.0
12	AM	134	GLU	6.9
9	AI	89	LYS	6.8
2	AA	545	G	6.8
37	BE	235	SER	6.6
27	A3	3	HIS	6.6
9	AI	78	ARG	6.6
17	AR	54	THR	6.6
38	BF	150	LYS	6.4
36	B1	27	G	6.4
37	BE	236	TYR	6.3
37	BE	231	GLU	6.2
5	AE	294	THR	6.2
35	BB	17	U	6.2
35	BB	19	G	6.1
35	BB	76	A	6.1
5	AE	172	ASP	6.0
9	AJ	113	GLU	6.0
5	AE	171	SER	5.9
37	BE	230	VAL	5.9
5	AE	319	ASP	5.9
9	AJ	112	GLU	5.9
9	AJ	108	LYS	5.9

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Mol	Chain	Res	Type	RSRZ
41	BI	9	VAL	5.8
9	AJ	65	SER	5.8
26	A2	13	ARG	5.7
37	BE	233	SER	5.7
35	BB	25	C	5.6
35	BB	26	G	5.6
36	B1	34	U	5.5
35	BB	28	C	5.5
36	B1	11	U	5.5
14	AO	79	ASP	5.5
35	BB	61	C	5.5
9	AJ	27	ASP	5.4
36	B1	26	C	5.4
5	AE	40	GLY	5.4
27	A3	82	GLU	5.4
9	AI	74	ILE	5.3
38	BF	149	ALA	5.3
9	AI	120	GLU	5.3
36	B1	28	U	5.3
37	BE	239	VAL	5.3
38	BF	168	ALA	5.1
9	AI	54	GLU	5.1
9	AJ	39	VAL	5.1
38	BF	103	VAL	5.0
9	AJ	5	GLU	5.0
38	BF	66	VAL	5.0
38	BF	151	VAL	4.9
53	BU	78	LEU	4.9
36	B1	7	A	4.9
9	AJ	40	ALA	4.9
35	BB	56	C	4.9
12	AM	71	TYR	4.8
35	BB	27	C	4.8
37	BE	232	PRO	4.8
9	AJ	64	LYS	4.8
9	AJ	28	LYS	4.8
41	BI	49	ALA	4.8
41	BI	87	ARG	4.7
5	AE	73	ILE	4.6
41	BI	8	ILE	4.6
2	AA	140	A	4.6
41	BI	50	TYR	4.6

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Mol	Chain	Res	Type	RSRZ
5	AE	271	ILE	4.5
35	BB	75	C	4.5
41	BI	10	LEU	4.5
38	BF	169	ALA	4.5
41	BI	60	PHE	4.5
15	AP	157	ALA	4.5
35	BB	43	G	4.5
35	BB	55	U	4.4
36	B1	10	U	4.4
38	BF	102	ASN	4.4
15	AP	156	ASN	4.4
36	B1	9	C	4.3
27	A3	2	ALA	4.3
38	BF	200	ALA	4.3
9	AJ	96	GLY	4.3
36	B1	8	A	4.3
7	AG	153	THR	4.3
9	AJ	116	LYS	4.2
27	A3	83	ALA	4.2
9	AI	90	ASP	4.2
20	AU	13	ARG	4.2
15	AP	127	ASN	4.2
38	BF	67	THR	4.2
20	AU	12	ARG	4.2
27	A3	4	LYS	4.2
37	BE	202	PRO	4.2
41	BI	86	ARG	4.2
36	B1	45	A	4.2
9	AJ	34	ALA	4.1
36	B1	71	A	4.1
17	AR	53	ASP	4.1
20	AU	10	SER	4.1
2	AA	546	C	4.1
41	BI	88	VAL	4.1
26	A2	6	GLN	4.1
9	AJ	111	ALA	4.1
9	AI	77	VAL	4.0
20	AU	1	SER	4.0
53	BU	16	PRO	4.0
13	AN	59	LYS	4.0
5	AE	72	VAL	4.0
38	BF	68	VAL	3.9

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Mol	Chain	Res	Type	RSRZ
9	AJ	107	SER	3.9
7	AG	154	LYS	3.9
26	A2	1	MET	3.9
37	BE	237	ALA	3.9
26	A2	45	THR	3.9
35	BB	64	A	3.9
37	BE	229	VAL	3.9
38	BF	104	GLN	3.8
14	AO	139	SER	3.8
37	BE	200	ILE	3.8
9	AJ	110	GLU	3.8
17	AR	52	THR	3.8
12	AM	110	ASP	3.8
36	B1	46	A	3.8
41	BI	46	ARG	3.8
24	A0	97	VAL	3.8
11	AL	48	ASP	3.8
46	BN	86	GLY	3.8
14	AO	78	ALA	3.7
38	BF	175	LEU	3.7
28	A4	72	LYS	3.7
26	A2	43	GLU	3.7
2	AA	141(A)	C	3.7
13	AN	58	VAL	3.7
38	BF	100	ALA	3.7
36	B1	6	U	3.7
9	AJ	126	GLU	3.7
53	BU	76	LEU	3.7
42	BJ	59	LEU	3.7
15	AP	30	GLN	3.6
21	AV	102	GLY	3.6
20	AU	9	LYS	3.6
41	BI	52	ILE	3.6
13	AN	102	VAL	3.6
2	AA	1541	U	3.6
42	BJ	62	PHE	3.6
9	AI	83	LEU	3.6
38	BF	184	TYR	3.6
37	BE	238	LEU	3.6
9	AI	75	LYS	3.6
34	BA	88	A	3.6
5	AE	270	ASP	3.6

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Mol	Chain	Res	Type	RSRZ
37	BE	195	ASP	3.6
49	BQ	37	PHE	3.6
45	BM	83	GLU	3.5
5	AE	41	PHE	3.5
5	AE	74	GLU	3.5
2	AA	1490	A	3.5
9	AI	55	GLU	3.5
37	BE	240	GLN	3.5
40	BH	106	PRO	3.5
9	AJ	124	GLU	3.5
5	AE	175	ASP	3.4
12	AM	62	ASP	3.4
17	AR	8	TYR	3.4
41	BI	51	PRO	3.4
25	A1	91	ASN	3.4
37	BE	42	ILE	3.4
10	AK	72	LEU	3.4
8	AH	16	VAL	3.4
9	AJ	33	ALA	3.4
9	AI	71	ILE	3.4
41	BI	57	GLN	3.4
35	BB	62	A	3.3
3	AC	118	ASP	3.3
5	AE	293	TYR	3.3
40	BH	119	LEU	3.3
30	A6	25	THR	3.3
9	AJ	95	ALA	3.3
5	AE	173	ARG	3.3
39	BG	183	GLY	3.3
42	BJ	61	VAL	3.3
9	AJ	115	LYS	3.3
21	AV	3	LEU	3.3
41	BI	89	MET	3.3
38	BF	202	ILE	3.2
41	BI	48	LEU	3.2
4	AD	108	ASN	3.2
4	AD	145	LEU	3.2
9	AJ	127	LEU	3.2
9	AJ	41	ALA	3.2
29	A5	30	LEU	3.2
40	BH	70	PRO	3.2
40	BH	143	ARG	3.2

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Mol	Chain	Res	Type	RSRZ
41	BI	22	GLU	3.2
9	AI	108	LYS	3.2
34	BA	1542	U	3.2
37	BE	31	TYR	3.2
9	AJ	55	GLU	3.2
26	A2	64	GLY	3.2
38	BF	7	PRO	3.2
41	BI	53	ALA	3.2
38	BF	152	ILE	3.2
2	AA	1585	C	3.1
9	AJ	32	THR	3.1
38	BF	79	ARG	3.1
46	BN	13	GLN	3.1
38	BF	167	TRP	3.1
9	AJ	117	LYS	3.1
9	AJ	66	PHE	3.1
5	AE	189	MET	3.1
5	AE	71	THR	3.1
9	AJ	31	VAL	3.1
18	AS	24	ILE	3.1
39	BG	142	PRO	3.1
26	A2	14	VAL	3.1
39	BG	185	PHE	3.1
4	AD	68	ARG	3.0
40	BH	109	ILE	3.0
9	AJ	120	GLU	3.0
39	BG	175	SER	3.0
53	BU	77	GLY	3.0
19	AT	8	PRO	3.0
5	AE	42	ALA	3.0
42	BJ	58	PRO	3.0
11	AL	139	VAL	3.0
41	BI	58	GLY	3.0
38	BF	6	HIS	3.0
38	BF	65	ALA	3.0
11	AL	36	MET	3.0
41	BI	61	LEU	3.0
14	AO	140	VAL	3.0
38	BF	54	ARG	3.0
5	AE	75	THR	3.0
5	AE	193	PHE	3.0
9	AI	56	LYS	3.0

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Mol	Chain	Res	Type	RSRZ
11	AL	140	VAL	3.0
54	BV	60	VAL	3.0
38	BF	173	VAL	2.9
9	AI	116	LYS	2.9
9	AJ	119	GLU	2.9
13	AN	120	GLU	2.9
54	BV	76	PRO	2.9
11	AL	19	THR	2.9
35	BB	63	C	2.9
52	BT	45	HIS	2.9
45	BM	82	ILE	2.9
14	AO	141	GLU	2.9
46	BN	12	ARG	2.9
47	BO	67	THR	2.9
38	BF	101	LEU	2.9
38	BF	199	LYS	2.9
19	AT	7	HIS	2.9
10	AK	71	GLN	2.9
5	AE	299	SER	2.9
9	AJ	24	LYS	2.9
41	BI	7	ASN	2.9
34	BA	1257	U	2.8
5	AE	295	LEU	2.8
9	AI	109	GLU	2.8
26	A2	83	ARG	2.8
2	AA	1952	A	2.8
46	BN	75	TYR	2.8
9	AJ	79	GLU	2.8
9	AJ	26	GLU	2.8
37	BE	43	ASP	2.8
43	BK	111	ILE	2.8
53	BU	80	PRO	2.8
38	BF	55	VAL	2.8
5	AE	93	GLN	2.8
5	AE	274	GLY	2.8
40	BH	31	LEU	2.8
9	AJ	30	GLY	2.8
38	BF	69	HIS	2.8
38	BF	185	GLY	2.8
42	BJ	63	LYS	2.8
12	AM	57	TYR	2.8
21	AV	101	THR	2.8

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Mol	Chain	Res	Type	RSRZ
45	BM	6	ILE	2.8
40	BH	105	VAL	2.8
43	BK	80	ILE	2.8
45	BM	85	LEU	2.7
4	AD	104	ILE	2.7
43	BK	118	VAL	2.7
45	BM	80	LYS	2.7
41	BI	55	ASP	2.7
3	AC	117	PRO	2.7
27	A3	84	ALA	2.7
40	BH	71	LEU	2.7
50	BR	87	ILE	2.7
54	BV	49	ILE	2.7
20	AU	11	GLN	2.7
40	BH	76	ILE	2.7
39	BG	184	LYS	2.7
45	BM	78	ASN	2.7
2	AA	1542	G	2.7
43	BK	44	PHE	2.7
41	BI	56	PRO	2.7
50	BR	88	ARG	2.7
9	AJ	10	ILE	2.7
4	AD	165	GLY	2.7
27	A3	7	VAL	2.7
41	BI	59	TYR	2.7
38	BF	170	GLN	2.7
34	BA	89	C	2.7
12	AM	78	ILE	2.7
9	AJ	43	PRO	2.7
9	AI	117	LYS	2.7
46	BN	11	LYS	2.6
4	AD	89	ASN	2.6
9	AI	91	LEU	2.6
45	BM	81	THR	2.6
52	BT	43	LEU	2.6
46	BN	109	VAL	2.6
12	AM	61	VAL	2.6
4	AD	103	ILE	2.6
26	A2	75	LYS	2.6
5	AE	263	GLU	2.6
45	BM	79	ARG	2.6
22	AW	31	ARG	2.6

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Mol	Chain	Res	Type	RSRZ
40	BH	135	THR	2.6
43	BK	134	ILE	2.6
26	A2	7	THR	2.6
24	A0	99	LYS	2.6
21	AV	140	LYS	2.6
15	AP	100	GLY	2.6
9	AJ	35	ALA	2.6
9	AJ	70	LYS	2.6
52	BT	44	ALA	2.6
21	AV	130	ILE	2.6
47	BO	68	ALA	2.6
5	AE	47	GLY	2.6
13	AN	122	ILE	2.6
38	BF	56	ASP	2.6
6	AF	233	THR	2.6
41	BI	84	ASN	2.5
5	AE	176	HIS	2.5
20	AU	6	LYS	2.5
9	AJ	123	ALA	2.5
13	AN	42	THR	2.5
37	BE	228	GLY	2.5
5	AE	44	TYR	2.5
5	AE	312	ARG	2.5
43	BK	79	VAL	2.5
40	BH	110	LEU	2.5
9	AI	76	VAL	2.5
42	BJ	60	LYS	2.5
5	AE	291	GLY	2.5
13	AN	57	VAL	2.5
26	A2	2	PHE	2.5
26	A2	65	ARG	2.5
38	BF	57	ILE	2.5
12	AM	60	ARG	2.5
46	BN	87	THR	2.5
5	AE	46	ALA	2.5
15	AP	69	ASN	2.5
11	AL	49	LYS	2.5
21	AV	34	LEU	2.5
30	A6	24	THR	2.4
4	AD	183	ILE	2.4
4	AD	88	ALA	2.4
3	AC	70	LYS	2.4

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Mol	Chain	Res	Type	RSRZ
13	AN	121	VAL	2.4
9	AI	79	GLU	2.4
38	BF	109	PRO	2.4
37	BE	197	VAL	2.4
45	BM	23	ILE	2.4
9	AJ	42	ALA	2.4
17	AR	10	GLY	2.4
19	AT	78	ALA	2.4
28	A4	21	VAL	2.4
5	AE	292	PRO	2.4
46	BN	14	VAL	2.4
9	AJ	58	GLU	2.4
4	AD	101	ARG	2.4
19	AT	5	ILE	2.4
9	AI	121	ALA	2.4
17	AR	11	THR	2.4
41	BI	11	ASN	2.4
9	AI	57	THR	2.4
10	AK	93	ILE	2.3
12	AM	132	LEU	2.3
26	A2	15	SER	2.3
2	AA	929	G	2.3
38	BF	108	ASN	2.3
6	AF	234	VAL	2.3
40	BH	11	ILE	2.3
40	BH	138	ALA	2.3
43	BK	78	GLN	2.3
53	BU	17	SER	2.3
2	AA	2557	G	2.3
9	AJ	114	ILE	2.3
4	AD	102	TYR	2.3
54	BV	75	ALA	2.3
28	A4	73	LYS	2.3
53	BU	88	LYS	2.3
40	BH	72	GLN	2.3
15	AP	44	ALA	2.3
40	BH	118	ILE	2.3
5	AE	43	GLY	2.3
36	B1	58	A	2.3
40	BH	120	THR	2.3
51	BS	39	TYR	2.3
13	AN	41	ALA	2.3

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Mol	Chain	Res	Type	RSRZ
50	BR	89	GLY	2.3
28	A4	20	VAL	2.3
30	A6	38	LYS	2.3
41	BI	23	LYS	2.3
39	BG	110	PHE	2.3
26	A2	18	ASP	2.3
38	BF	58	GLU	2.3
40	BH	78	HIS	2.3
46	BN	110	ASP	2.3
38	BF	143	GLU	2.3
10	AK	68	LEU	2.3
41	BI	90	VAL	2.3
9	AJ	56	LYS	2.3
26	A2	73	LYS	2.3
38	BF	87	LEU	2.3
47	BO	5	PRO	2.3
9	AI	72	GLN	2.2
11	AL	18	ALA	2.2
53	BU	86	VAL	2.2
47	BO	100	ILE	2.2
21	AV	1	MET	2.2
2	AA	2144	U	2.2
43	BK	135	CYS	2.2
45	BM	19	SER	2.2
9	AI	92	VAL	2.2
26	A2	99	GLN	2.2
47	BO	69	TYR	2.2
30	A6	6	PRO	2.2
40	BH	111	GLU	2.2
5	AE	187	HIS	2.2
21	AV	138	VAL	2.2
9	AI	122	GLY	2.2
12	AM	59	LYS	2.2
28	A4	19	GLN	2.2
45	BM	63	PHE	2.2
13	AN	2	ILE	2.2
2	AA	1530	G	2.2
9	AJ	44	VAL	2.2
40	BH	75	THR	2.2
37	BE	156	LYS	2.2
5	AE	194	ARG	2.2
43	BK	77	GLU	2.2

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Mol	Chain	Res	Type	RSRZ
5	AE	298	GLY	2.2
9	AJ	29	PHE	2.2
26	A2	12	TYR	2.2
20	AU	14	ALA	2.2
3	AC	116	THR	2.2
45	BM	74	ILE	2.2
18	AS	47	VAL	2.2
9	AJ	11	GLU	2.2
26	A2	4	ILE	2.2
15	AP	83	PHE	2.2
24	A0	98	LEU	2.2
40	BH	144	THR	2.2
31	A7	26	SER	2.2
32	A8	28	GLY	2.2
54	BV	74	PHE	2.2
34	BA	82	U	2.2
17	AR	56	ARG	2.2
28	A4	47	GLU	2.2
49	BQ	49	HIS	2.2
4	AD	105	ALA	2.2
17	AR	55	ALA	2.2
35	BB	29	A	2.2
53	BU	19	LYS	2.1
29	A5	29	ASN	2.1
53	BU	34	TYR	2.1
38	BF	64	VAL	2.1
9	AI	73	VAL	2.1
4	AD	109	LEU	2.1
5	AE	273	GLU	2.1
45	BM	27	ALA	2.1
9	AI	43	PRO	2.1
9	AJ	9	ALA	2.1
38	BF	21	ARG	2.1
45	BM	4	ILE	2.1
46	BN	108	ILE	2.1
22	AW	36	ALA	2.1
28	A4	53	GLU	2.1
15	AP	136	TRP	2.1
46	BN	21	ILE	2.1
9	AJ	25	LEU	2.1
39	BG	108	LEU	2.1
43	BK	112	LEU	2.1

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Mol	Chain	Res	Type	RSRZ
31	A7	45	SER	2.1
38	BF	183	ASP	2.1
38	BF	148	GLY	2.1
26	A2	96	LEU	2.1
9	AJ	59	PHE	2.1
9	AJ	97	SER	2.1
9	AJ	92	VAL	2.1
29	A5	27	ALA	2.1
41	BI	47	ARG	2.1
11	AL	62	GLU	2.1
40	BH	69	VAL	2.1
47	BO	101	VAL	2.1
39	BG	186	LEU	2.1
47	BO	56	ALA	2.1
54	BV	48	THR	2.1
9	AI	119	GLU	2.1
38	BF	111	LEU	2.1
9	AJ	121	ALA	2.1
9	AJ	63	LEU	2.1
13	AN	101	PRO	2.1
17	AR	12	ASP	2.1
12	AM	79	PHE	2.1
45	BM	29	ARG	2.1
2	AA	1903	G	2.1
17	AR	9	CYS	2.1
4	AD	172	ILE	2.0
18	AS	103	ILE	2.0
40	BH	152	ARG	2.0
26	A2	5	ILE	2.0
20	AU	5	ASP	2.0
45	BM	77	PRO	2.0
46	BN	84	VAL	2.0
39	BG	187	ARG	2.0
39	BG	143	GLY	2.0
5	AE	296	VAL	2.0
37	BE	17	PHE	2.0
5	AE	308	VAL	2.0
5	AE	272	GLY	2.0
29	A5	39	LYS	2.0
40	BH	114	GLY	2.0
14	AO	80	ASP	2.0
9	AI	99	ASP	2.0

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Mol	Chain	Res	Type	RSRZ
26	A2	17	GLY	2.0

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

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

6.3 Carbohydrates [i](#)

There are no carbohydrates in this entry.

6.4 Ligands [i](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.